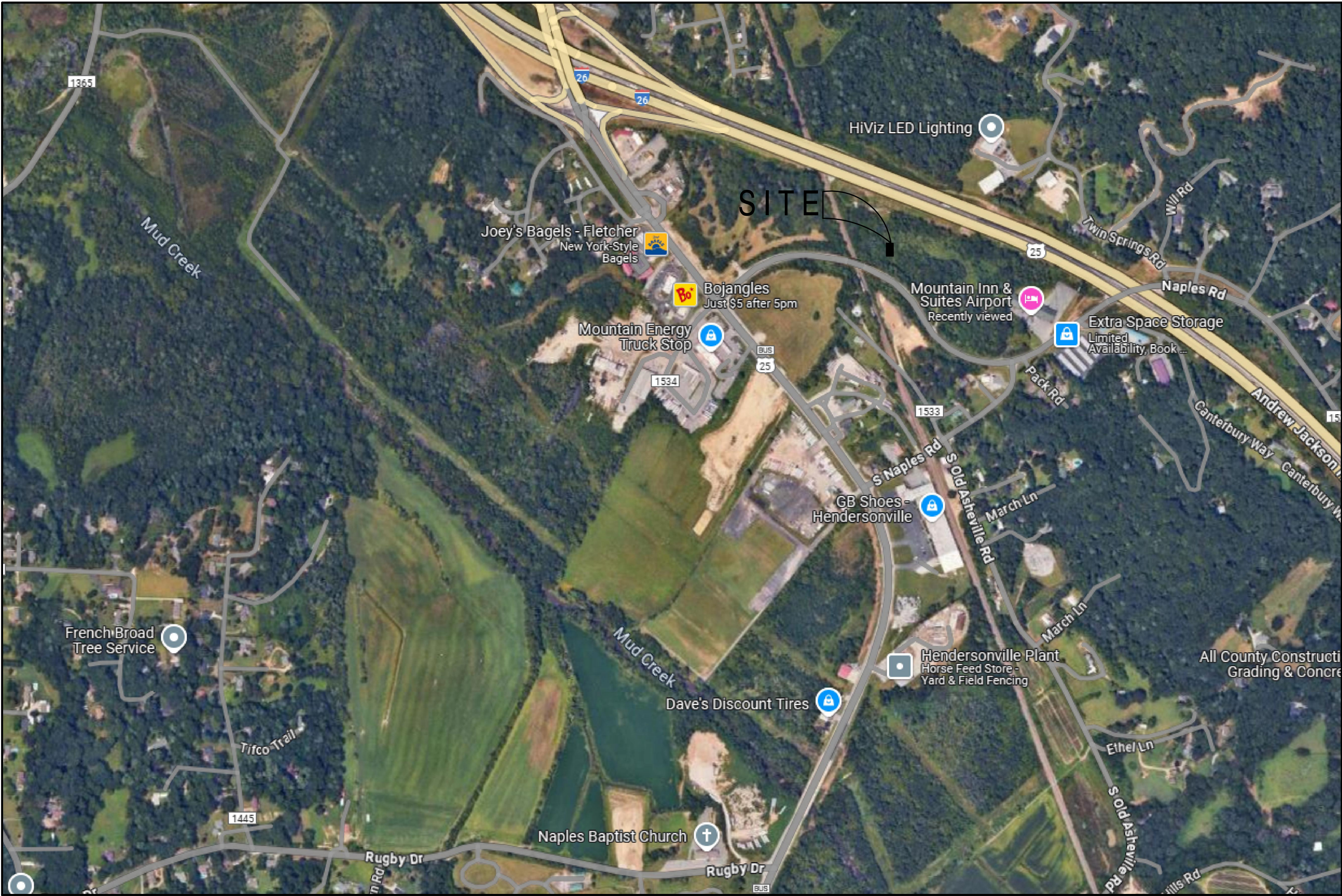


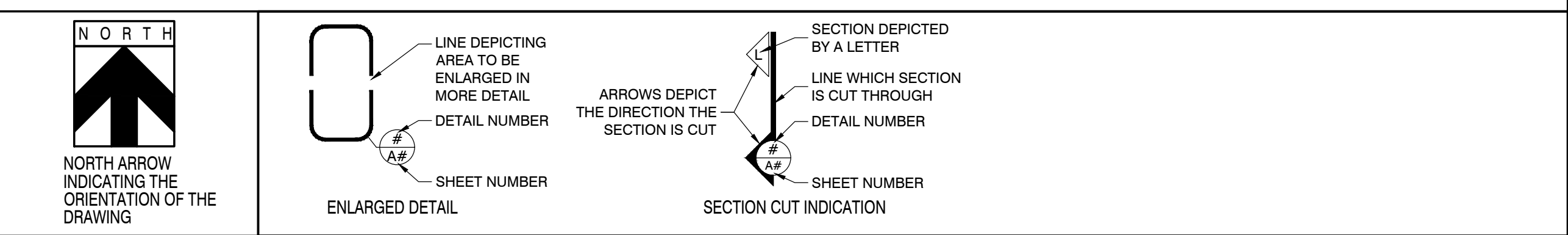
GENERAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	SQ.	SQUARE
ACOUS.	ACOUSTICAL	STD.	STANDARD
ADJ.	ADJUSTABLE	STL.	STEEL
ALUM.	ALUMINUM	STOR.	STORAGE
&	AND	SUSP.	SUSPENDED
<	ANGLE	T.C.	TIME CLOCK
ARCH.	ARCHITECTURAL	T.O.	TOP OF
@	AT	TEL.	TELEPHONE
BD.	BOARD	THK.	THICK
BLDG.	BUILDING	TYP.	TYPICAL
BLK.	BLOCK	U.O.N.	UNLESS OTHERWISE NOTED
BLKG.	BLOCKING	VERT.	VERTICAL
BM.	BEAM	V.I.F.	VERIFY IN FIELD
BOT.	BOTTOM	W.	WEST
CAB.	CABINET	W/	WITH
CEM.	CEMENT	W/C	WATER CLOSET
CL.	CENTERLINE	W/O	WITHOUT
CER.	CERAMIC	W/R	WATER RESISTANT
CLG.	CEILING	WD.	WOOD
CLKG.	CAULKING	WT.	WEIGHT
CLR.	CLEAR		
COL.	COLUMN		
CONC.	CONCRETE		
C.M.U.	CONCRETE MASONRY UNIT		
CONT.	CONTINUOUS		
DET.	DETAIL		
DIA.	DIAMETER		
DIM.	DIMENSION		
DR.	DOOR		
DBL.	DOUBLE		
DN.	DOWN		
DS.	DOWNSPOUT		
DWG.	DRAWING		
(E)	EXISTING		
E.P.	ELECTRICAL PANELBOARD		
EA.	EACH		
ELEV.	ELEVATION		
ELEC.	ELECTRICAL		
EMER.	EMERGENCY		
EQ.	EQUAL		
E.W.C.	ELECTRIC WATER COOLER		
F.E.	FIRE EXTINGUISHER		
F.O.	FACE OF		
F.O.F.	FACE OF FINISH		
F.O.S.	FACE OF STUDS		
F/F	FINISH TO FINISH		
F.R.	FIRE RETARDANT		
F.S.	FULL SIZE		
FIN.	FINISH		
FL.	FLOOR		
FLUOR.	FLUORESCENT		
FT.	FOOT, FEET		
F.V.	FIELD VERIFY		
G.B.	GRAB BAR		
G.C.	GENERAL CONTRACTOR		
GA.	GAUGE		
G.F.R.C.	GLASS FIBER REINFORCED CEMENT		
GL.	GLASS		
GYP.	GYPSPUM		
H.C.	HOLLOW CORE		
H.M.	HOLLOW METAL		
HC.	HANDICAPPED		
HDWD.	HARDWOOD		
HORIZ.	HORIZONTAL		
HGT.	HEIGHT		
HR.	HOOR		
H.T.	HANGER-TIGHT UNIT		
HVAC	HEATING, VENTILATION, AIR CONDITONING		
I.D.	INSIDE DIAMETER		
INSUL.	INSULATION		
IT.	JOINT		
LAM.	LAMINATE		
LT.	LIGHT		
MIR.	MIRROR		
MAX.	MAXIMUM		
MECH.	MECHANICAL		
MFR.	MANUFACTURER		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
MTL.	METAL		
N.	NORTH		
N.I.C.	NOT IN CONTRACT		
N.T.S.	NOT TO SCALE		
(N)	NEW		
NO.	NUMBER		
NOM.	NOMINAL		
OPNG.	OPENING		
OPP.	OPPOSITE		
PLAM.	PLASTIC LAMINATE		
PL.	PLATE		
PLAS.	PLASTER		
PLYWD.	PLYWOOD		
PR.	PAIR		
PT.	POINT		
#	POUND OR NUMBER		
R.	RISER		
RAD.	RADIUS		
REQD.	REQUIRED		
RESIL.	RESILIENT		
RM.	ROOM		
R.O.	ROUGH OPENING		
S.	SOUTH		
S.C.	SOLID CORE		
S.S.	STAINLESS STEEL		
SCHED.	SCHEDULE		
SHT.	SHEET		
SIM.	SIMILAR		
SPEC.	SPECIFICATION		



LOCATION MAP - 399 NAPLES RD.- SEE CIVIL

SYMBOLS AND GRAPHICS



PROFESSIONAL CONSULTANTS

WILDE ENGINEERING - NC FIRM LIC. NO. P-2182 MECHANICAL., ELECTRICAL & PLUMBING (MEP) 15822 KELLY PARK CIRCLE HUNTERSVILLE, NC ph: 704-439--7038
JDH STRUCTURAL ENGINEERS PLLC - NC FIRM LIC. NO. P-1593 (STRUCTURAL) 19545 GREENTREE WAY, SUITE B CORNELIUS, NC 28031 ph: 704-997--7072
WGLA ENGINEERING PLLC - NC FIRM LIC. NO. P-1342 (CIVIL) 724 5TH AVE. WEST HENDERSONVILLE, NC 28729 ph: 828-687--7177

BUILDING CODE ANALYSIS INFORMATION:

TOTAL GROSS AREA UNDER ROOF: 47,404.5 SF. (TABLE 506.2 GROUP R-2 12,000 S13R SPRINKLED MAX AREA ALLOWABLE)
AREA INCREASE MODIFICATION: (SECTION 506.2.3, EQUATION 5-2)
AREA= [12,000+ (12,000X0.75)]X3=63,000 SF. WHICH IS GREATER THAN 47,404.5 SF.
LARGEST FLOOR 14,195.5 SF. WHICH IS LESS THAN 21,000 SF.
BUILDING HEIGHT: ±49'-0" (TABLE 504.3 R2 60' S13R' SPRINKLED MAX. ALLOWABLE)
NUMBER OF STORIES: 3 ABOVE GRADE + 1 WALKOUT BASEMENT (TABLE 504.4 R2 S13R SPRINKLED ALLOWABLE STORIES ABOVE GRADE 4)
CONSTRUCTION TYPE: VA, S13R SPRINKLED ONE STORY (1 HR RATINGS REQ. TABLE 601 EXCEPT INTERIOR NON BEARING WALLS)
OCCUPANCY GROUP: RESIDENTIAL R2 - 28 UNITS
FIRE RATINGS FOR BUILDING ELEMENTS REQUIRED- 1 HR (TABLE 601)
FIRE SEPARATION RATINGS FOR EXTERIOR WALLS REQUIRED- 0 HR W/SEPARATION DISTANCE OF 30' OR GREATER. (TABLE 602)

CODE INFORMATION:

COUNTY JURISDICTION: HENDERSON
STATE JURISDICTION: NORTH CAROLINA
APPLICABLE CODES: N.C.B.C. 2018 BUILDING, PLUMBING, MECHANICAL, ENERGY CONSERVATION, FIRE PREVENTION CODES

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DATE	SHEET	SHEET TITLE
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	A-0.1	PARTIAL BASEMENT FLOOR PLAN.
	A-0.2	PARTIAL BASEMENT FLOOR PLAN.
	A-1.0	OVERALL FIRST FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-1.1	PARTIAL FIRST FLOOR PLAN.
	A-1.2	PARTIAL FIRST FLOOR PLAN.
	A-2.0	OVERALL SECOND FLR. PLAN & WINDOW/DOOR SCHEDULES.
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	A-2.2	PARTIAL SECOND FLOOR PLAN.
	A-3.0	OVERALL THIRD FLR. PLAN & WINDOW/DOOR SCHEDULES.
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	A-3.2	PARTIAL THIRD FLOOR PLAN.
	A-4	ROOF PLAN
	A-5.1	PARTIAL FRONT ELEVATION.
	A-5.2	PARTIAL FRONT ELEVATION.
	A-5.3	RIGHT SIDE ELEVATION.
	A-5.4	PARTIAL REAR ELEVATION.
	A-5.5	PARTIAL REAR ELEVATION.
	A-5.6	LEFT SIDE ELEVATION.
	A-6.1	BUILDING SECTION - "A-A" & SECTION DETAILS.
	A-6.2	BUILDING SECTION - "B-B" & SECTION DETAILS.
	A-6.3	BUILDING SECTION - "C-C"
	A-6.4	BUILDING SECTION - "D-D"
	A-6.5	BUILDING SECTION - "E-E" & SECTION DETAILS.
	A-6.5	PARTIAL BUILDING SECTIONS - "F" & "G" & SECTION DETAILS.
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	S-0.01	GENERAL NOTES.
	S-1.00	TYPICAL DETAILS.
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	S-1.03	TYPICAL DETAILS.
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	S-2.03	SECOND FLOOR FRAMING PLAN.
	S-2.04	THIRD FLOOR FRAMING PLAN.
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	S-3.00	FOUNDATION SECTIONS.
	S-3.01	FOUNDATION SECTIONS.
	S-4.00	FLOOR FRAMING SECTIONS.
	S-4.01	FLOOR FRAMING SECTIONS.
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		CIVIL

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Tel: 561-549-1986

SIGNATURE

CLIENT:
The orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President

PROJECT:
The Orchards at Naples Road
Apartment Complex
Buildings 1 & 5 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
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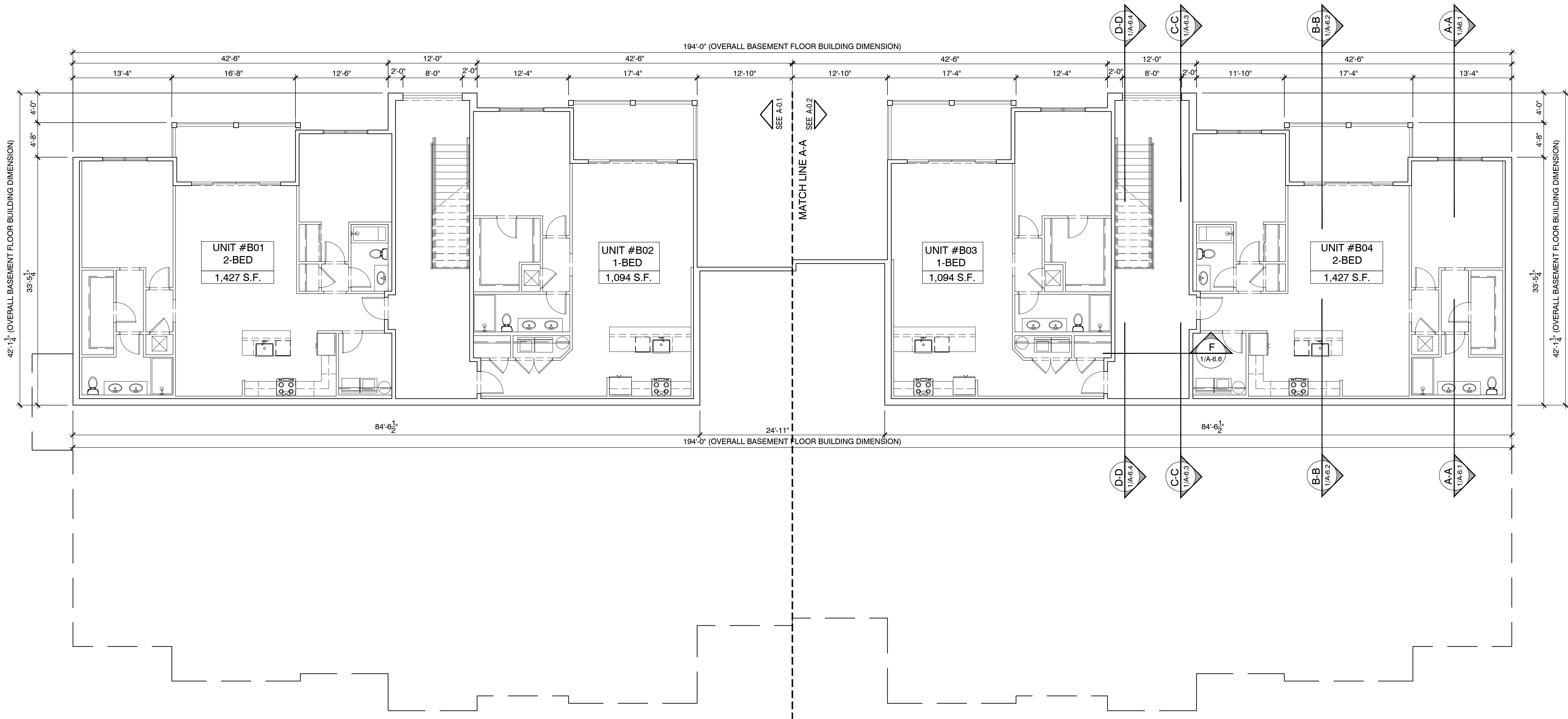
SHEET #:
CS-1

BASEMENT WINDOW SCHEDULE								
No.	TYPE	W x H	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS
B01	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS

BASEMENT EXTERIOR DOOR SCHEDULE								
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS
B01	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
B02	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	X	HOLLOW METAL	MTWS		EGRESS

BASEMENT INTERIOR DOOR SCHEDULE					
No.	TYPE	W x H	MATER.	SILL	REMARKS
B03	SINGLE DR.	2'-8"X6'-8"	WOOD	-	-
B04	SINGLE DR.	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
B05	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-
B06	DOUBLE DR.	(2) 2'-8"X6'-8"	WOOD	-	-
B07	BI-FOLD DR.	(2) 2'-6"X6'-8"	WOOD	-	-

BASEMENT AREA CALCULATION								
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA
B01	2	-	1,408 S.F.	132 S.F.	1,540 S.F.	2,755 S.F.	412 S.F.	6,368 S.F.
B02	1	-	1,081 S.F.	134 S.F.	1,215 S.F.			
B03	1	-	1,081 S.F.	134 S.F.	1,215 S.F.	2,755 S.F.	412 S.F.	
B04	2	-	1,408 S.F.	132 S.F.	1,540 S.F.			



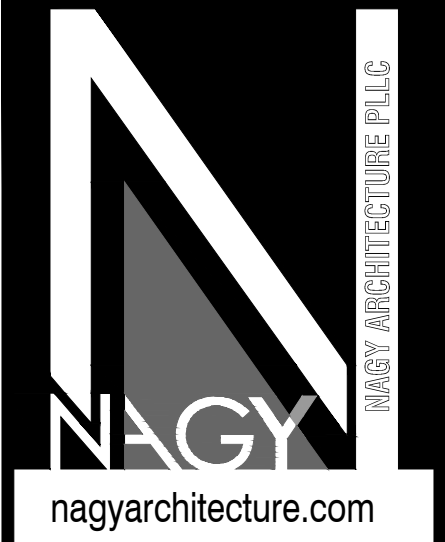
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OVERALL BASEMENT FLOOR PLAN

SCALE:
1/8" = 1'-0"

1

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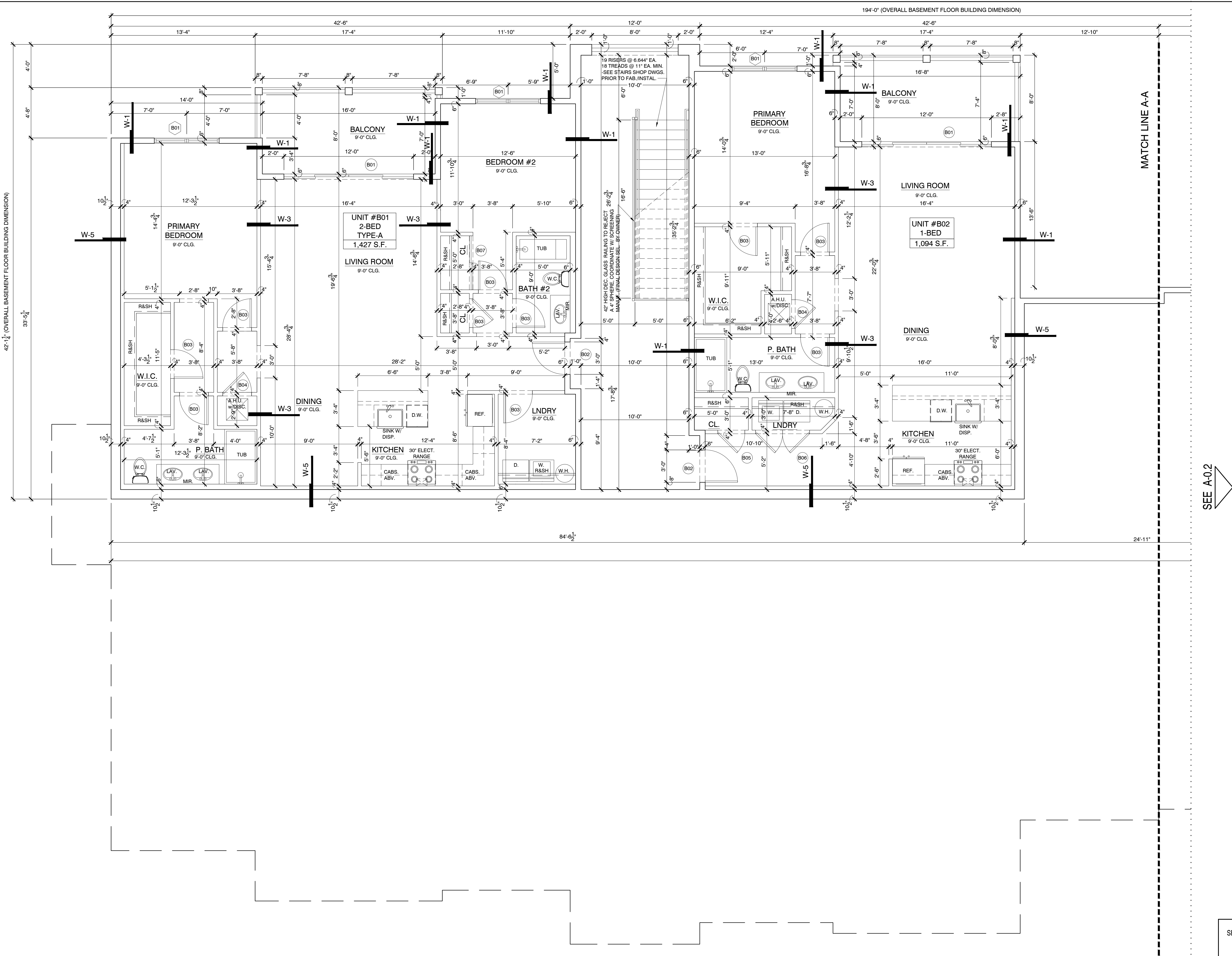
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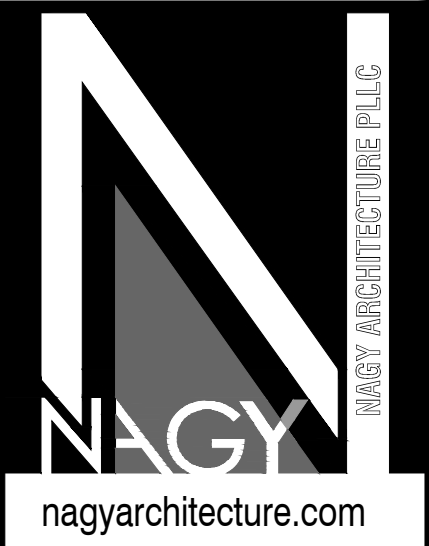
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SCALE:
1/4" = 1'-0"

1

PARTIAL BASEMENT FLOOR PLAN



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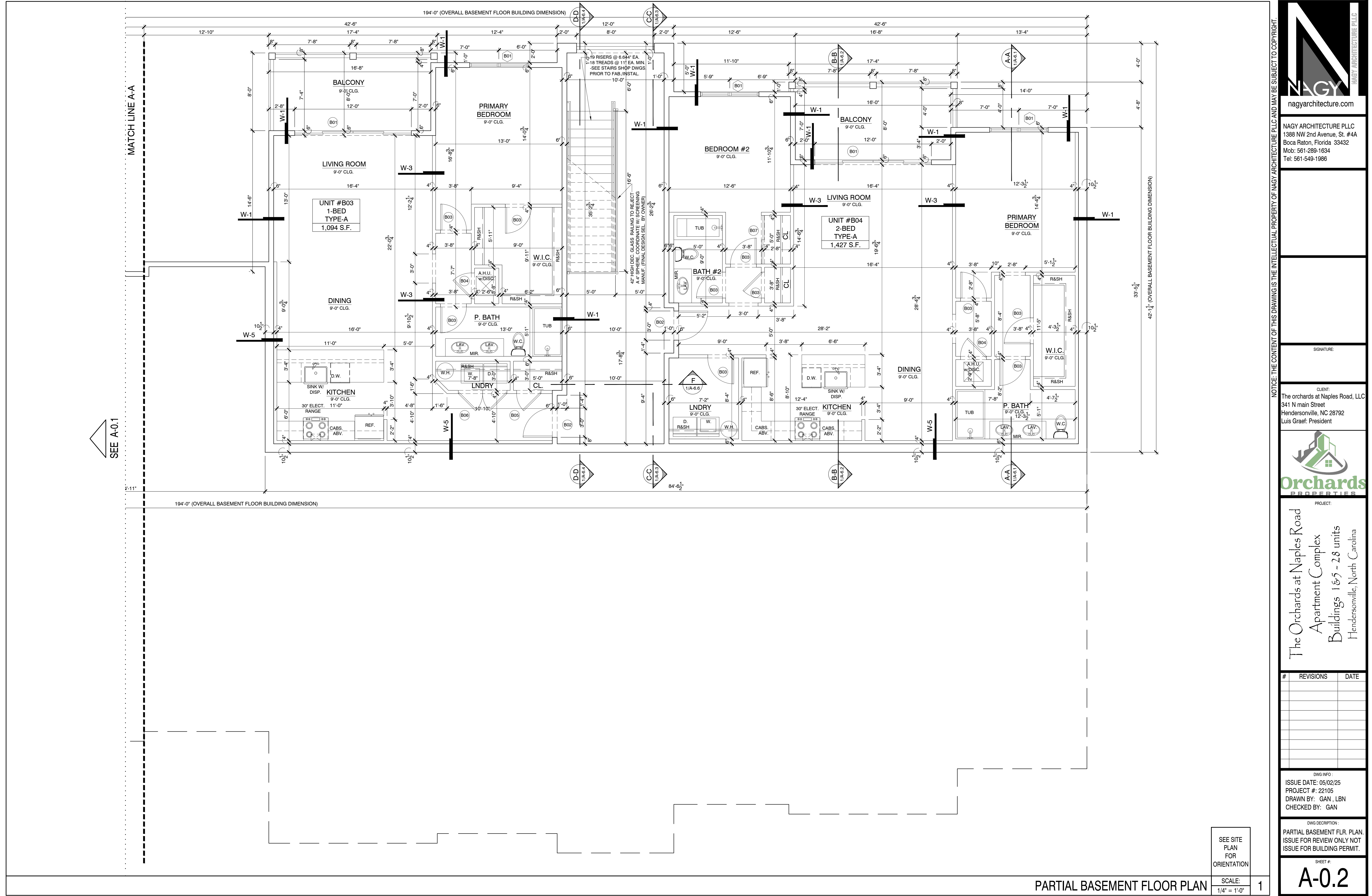
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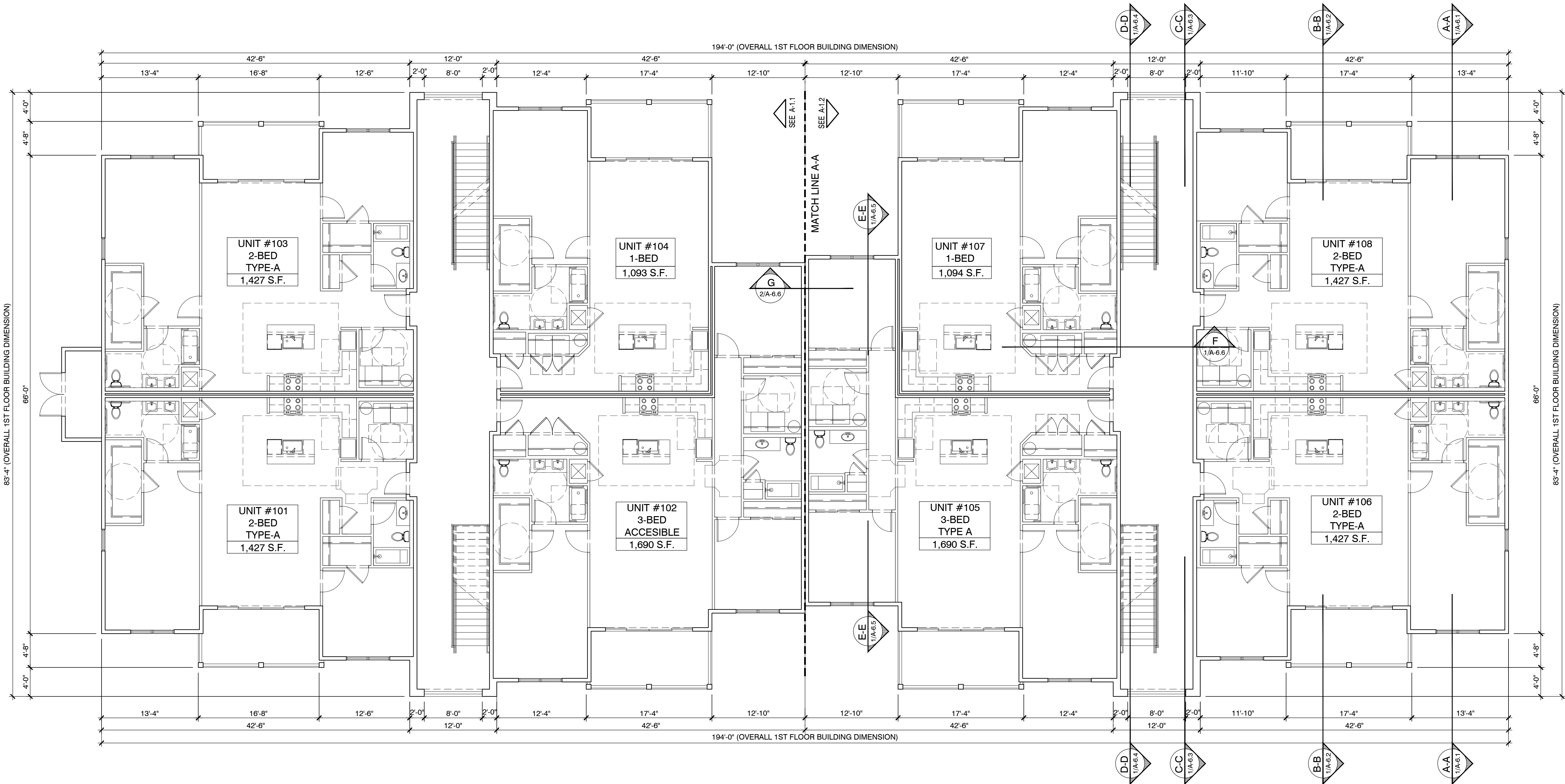


FIRST FLOOR WINDOW SCHEDULE							
No.	TYPE	W x H	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS
101	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS
102	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS

FIRST FLOOR EXTERIOR DOOR SCHEDULE							
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS
101	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS
102	FRONT DOOR	3'-0" X 6'-8"	40" X 80"		HOLLOW METAL	MTWS	
102a	STORAGE DR.	(2)3'-0" X 8'-0"	72" X 96"	X	HOLLOW METAL		

FIRST FLOOR INTERIOR DOOR SCHEDULE				
No.	TYPE	W x H	MATER.	REMARKS
103	SINGLE DR.	3'-0"X6'-8"	WOOD	-
104	SINGLE DR.	2'-8"X6'-8"	WOOD	- LOUVERED AT A/C CLOSET
105	SINGLE DR.	2'-6"X6'-8"	WOOD	-
106	DOUBLE DR.	(2)3'-0"X6'-8"	WOOD	-
107	BI-FOLD DR.	(2)3'-0"X6'-8"	WOOD	-
108	SINGLE DR.	2'-0"X6'-8"	WOOD	-

FIRST FLOOR AREA CALCULATION								
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA
101	2	A	1,427 S.F.	132 S.F.	1,559 S.F.	6,169 S.F.	749.5 S.F.	14,195.5 S.F.
102	3	ACCESIBLE	1,690 S.F.	134 S.F.	1,824 S.F.			
103	2	A	1,427 S.F.	132 S.F.	1,559 S.F.			
104	1	-	1,093 S.F.	134 S.F.	1,227 S.F.			
105	3	A	1,690 S.F.	134 S.F.	1,824 S.F.	6,170 S.F.	749.5 S.F.	
106	2	A	1,427 S.F.	132 S.F.	1,559 S.F.			
107	1	-	1,094 S.F.	134 S.F.	1,228 S.F.			
108	2	A	1,427 S.F.	132 S.F.	1,559 S.F.			



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OVERALL FIRST FLOOR PLAN

SCALE:
1/8" = 1'-0"

1

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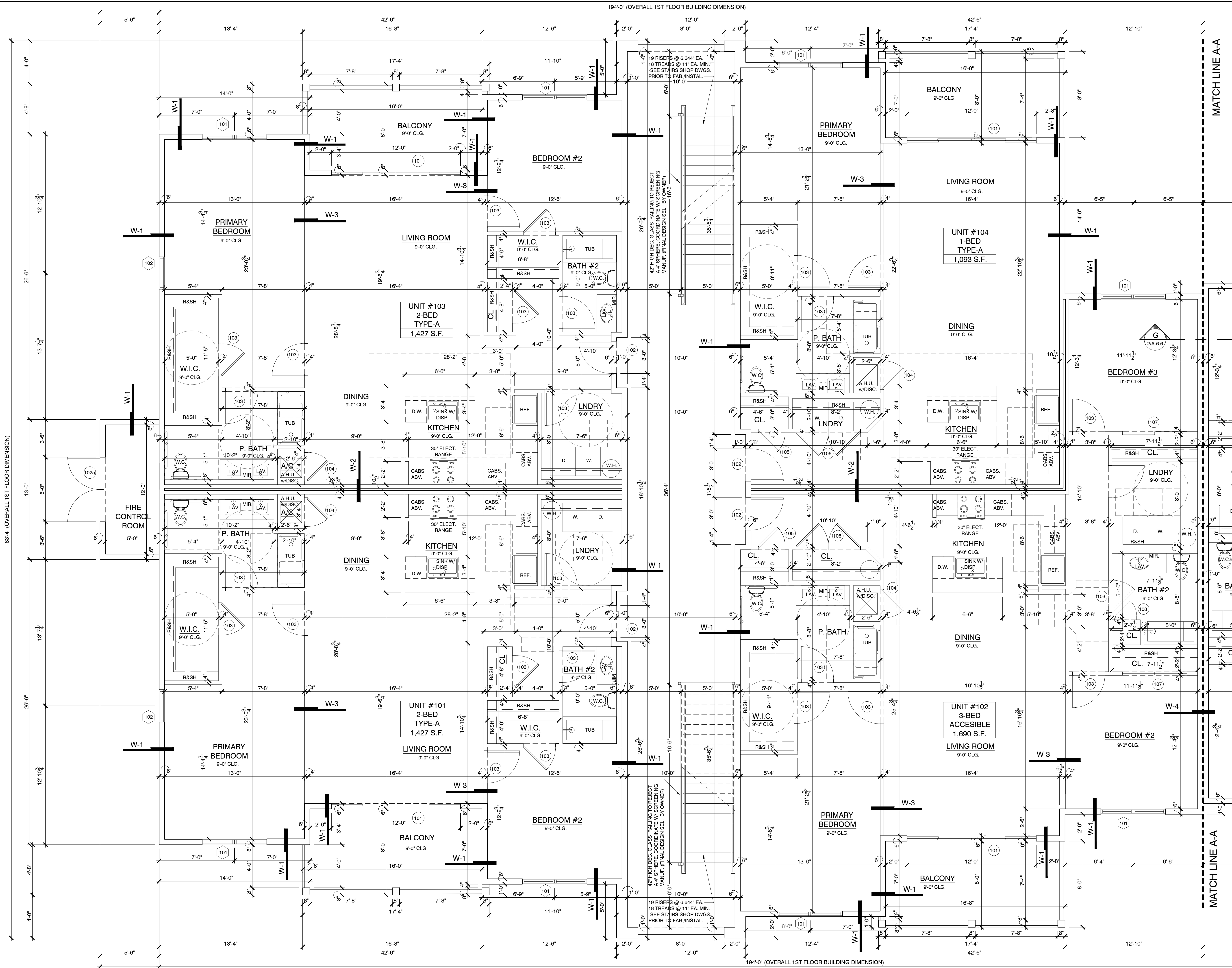
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SCALE:
1/8" = 1'-0"

1



SEE A-1.2

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SCALE:
1/4" = 1'-0"



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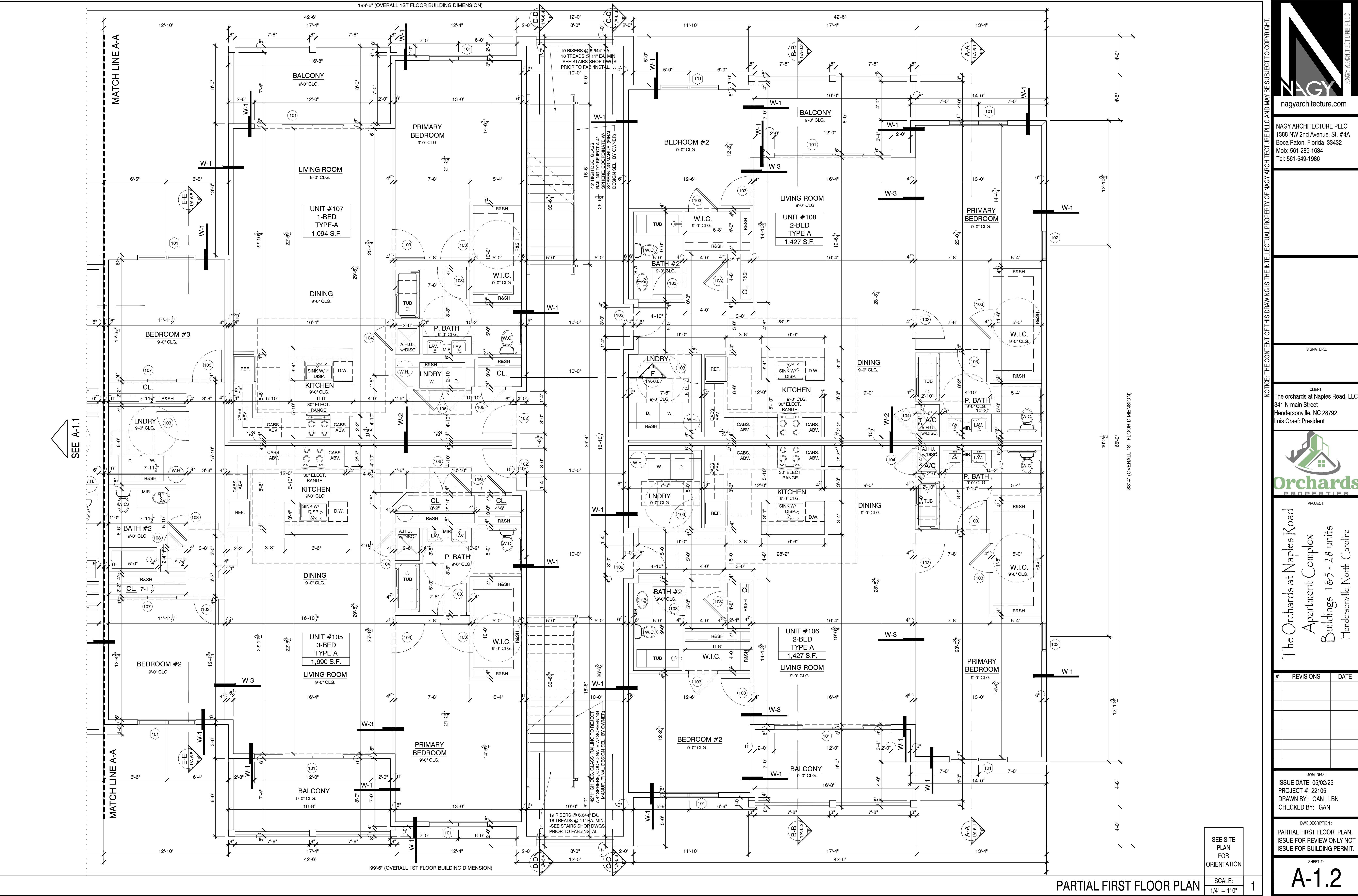
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PARTIAL FIRST FLOOR PLAN





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SCALE:
1/4" = 1'-0"

1

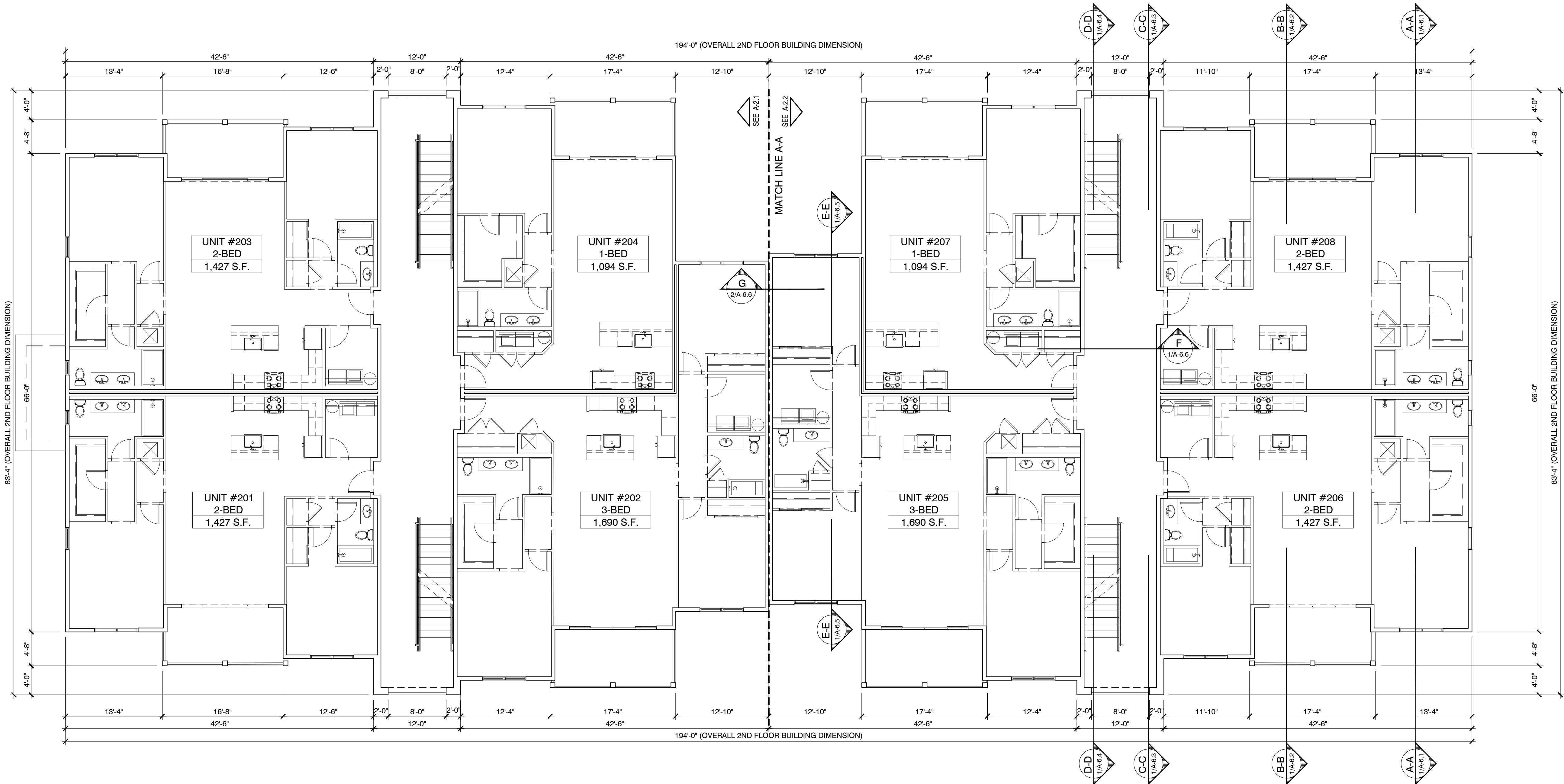
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SECOND FLOOR WINDOW SCHEDULE								
No.	TYPE	W x H	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS
201	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS
202	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS	EGRESS
203	FIXED	24" X 24"	24" X 24"	O	VINYL/GLS.	@ 6'-0" A.F.F.	(1) PANE TEMPERED GLASS	

SECOND FLOOR EXTERIOR DOOR SCHEDULE								
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS
201	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
202	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	X	HOLLOW METAL	MTWS		EGRESS

SECOND FLOOR INTERIOR DOOR SCHEDULE					
No.	TYPE	W x H	MATER.	SILL	REMARKS
203	SINGLE DR.	2'-8"X6'-8"	WOOD	-	-
204	SINGLE DR.	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
205	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-
206	DOUBLE DR.	(2) 2'-6"X6'-8"	WOOD	-	-
207	BI-FOLD DR.	(2) 2'-6"X6'-8"	WOOD	-	-
208	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-

SECOND FLOOR AREA CALCULATION								
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNITS' AREA	TOTAL UNITS' AREA	COMMON AREA	TOTAL FLR. GROSS AREA
201	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	6,170 S.F.	749.5 S.F.	14,124 S.F.
202	3	-	1,690 S.F.	134 S.F.	1,824 S.F.			
203	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			
204	1	-	1,094 S.F.	134 S.F.	1,228 S.F.	6,170 S.F.	749.5 S.F.	
205	3	-	1,690 S.F.	134 S.F.	1,824 S.F.			
206	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			
207	1	-	1,094 S.F.	134 S.F.	1,228 S.F.			
208	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			



SEE SITE
PLAN
FOR
ORIENTATION

OVERALL SECOND FLOOR PLAN

SCALE:
1/8" = 1'-0"

1

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Boca Raton, Florida 33432
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SIGNATURE:

CLIENT:
The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President

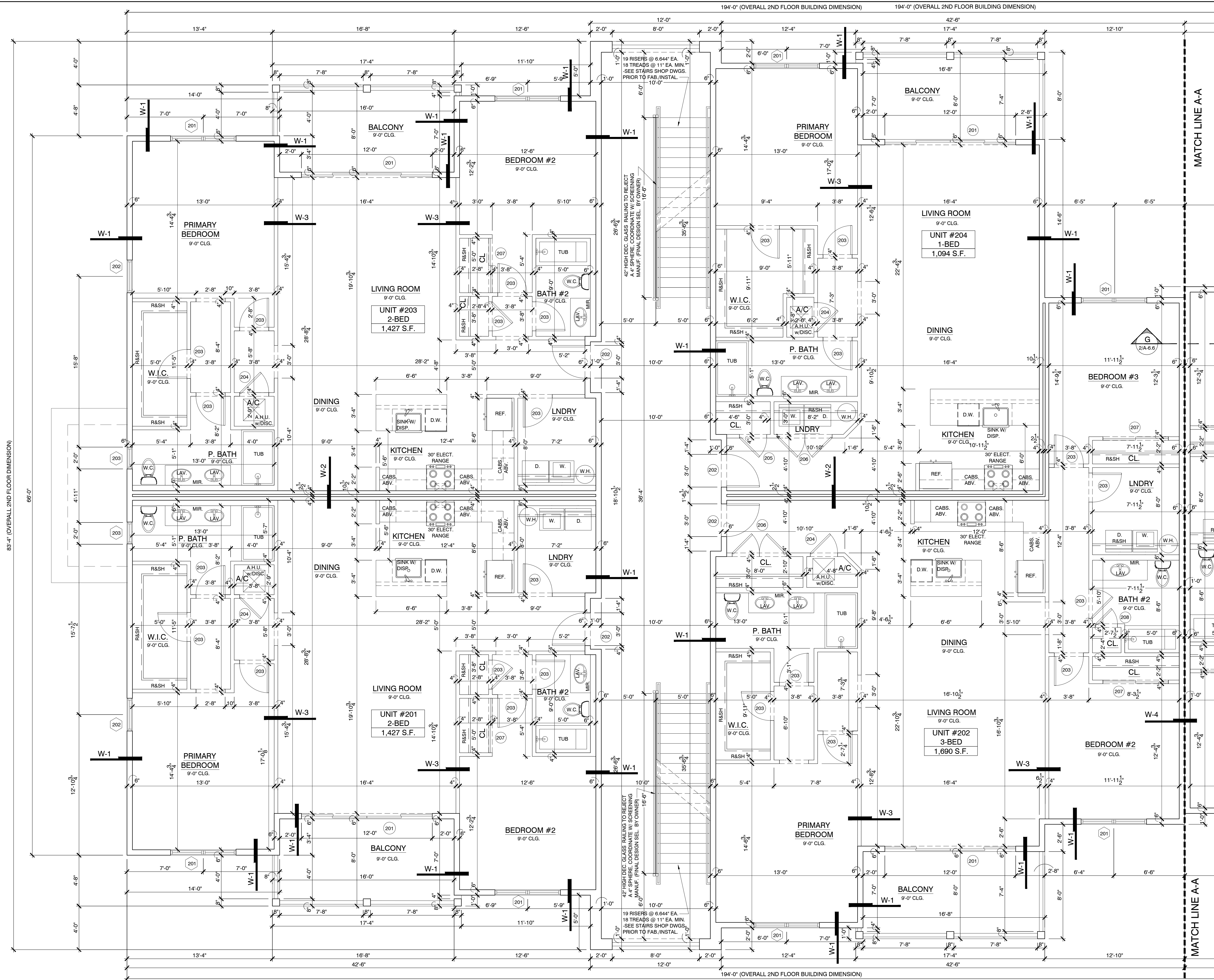
PROJECT:
The Orchards at Naples Road
Apartment Complex
Buildings 1&5 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
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OVERALL 2ND FLOOR PLAN.
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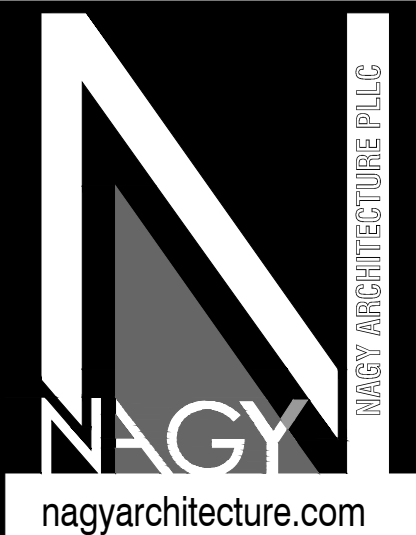


SEE A22

SEE SITE
PLAN
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SCALE:
1/4" = 1'-0"

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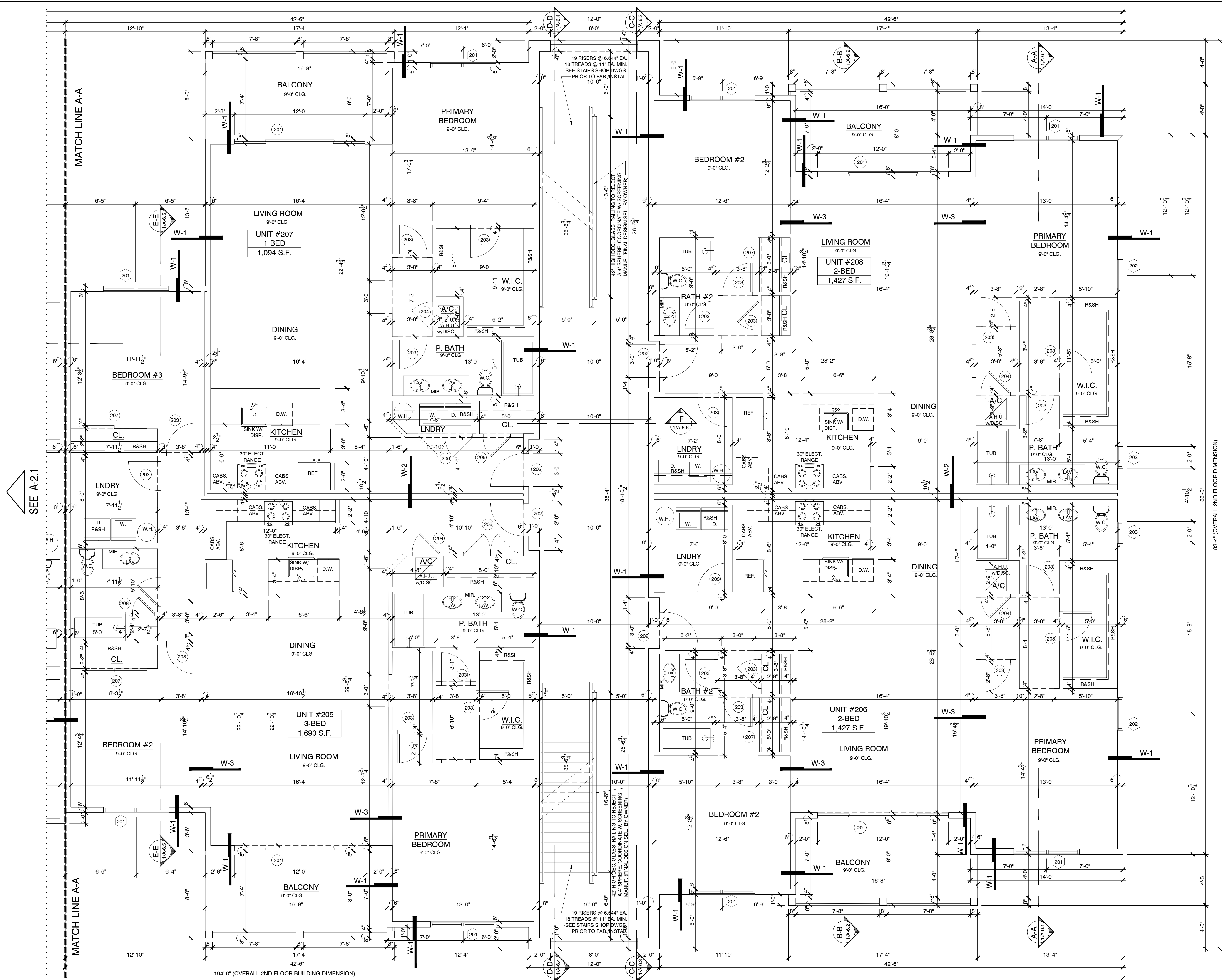
PROJECT:
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DWG INFO:
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A-2.1



PARTIAL SECOND FLOOR PLAN

SEE SITE
PLAN
FOR
ORIENTATION

SCALE:
1/4" = 1'-0"

1

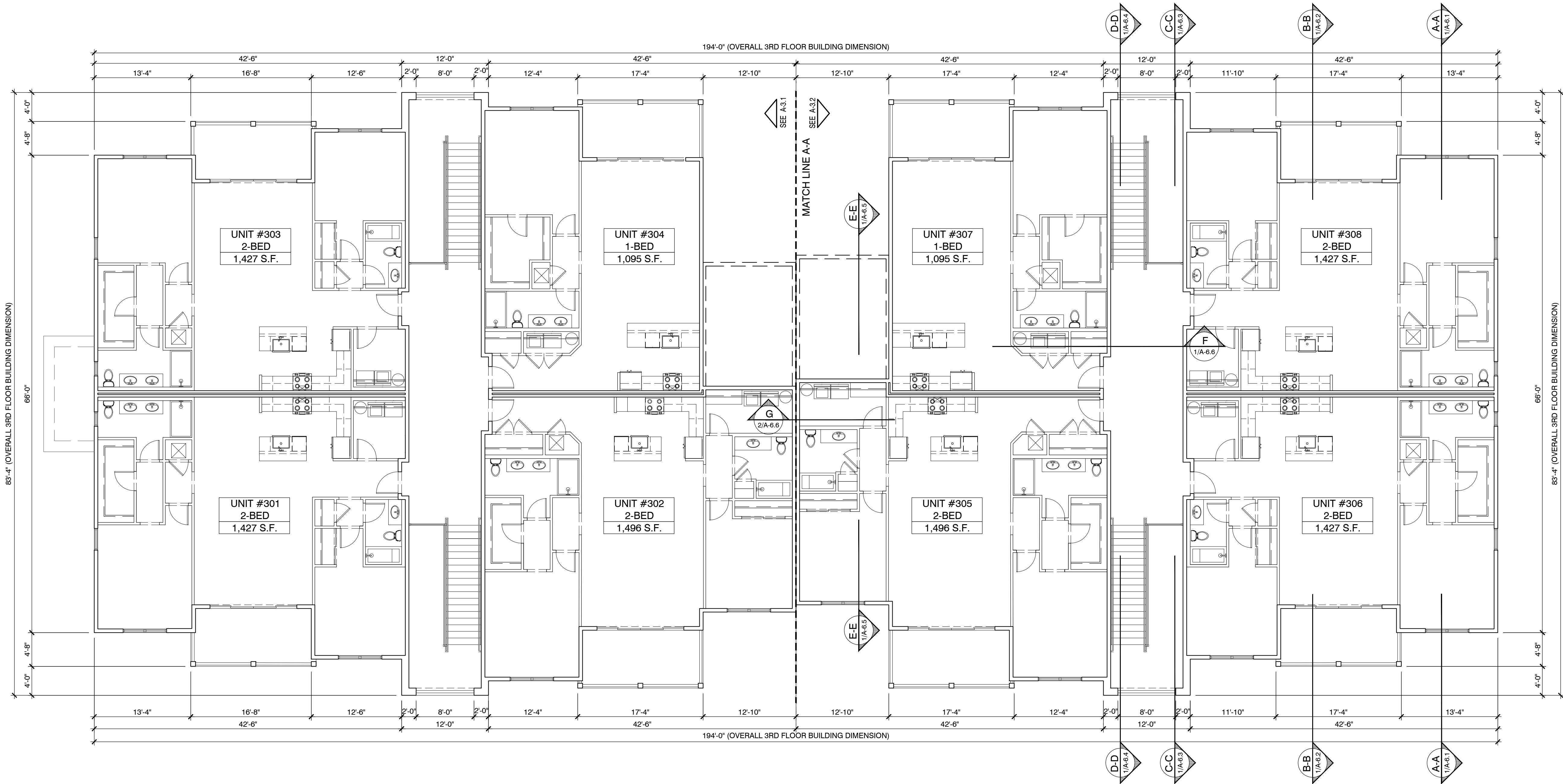
#	REVISIONS	DATE

THIRD FLOOR WINDOW SCHEDULE								
No.	TYPE	W x H	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS
301	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS
302	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS	EGRESS
303	FIXED	24" X 24"	24" X 24"	O	VINYL/GLS.	@ 6'-0" A.F.F.	(1) PANE TEMPERED GLASS	

THIRD FLOOR EXTERIOR DOOR SCHEDULE								
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS
301	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
302	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	X	HOLLOW METAL	MTWS		EGRESS

THIRD FLOOR INTERIOR DOOR SCHEDULE					
No.	TYPE	W x H	MATER.	SILL	REMARKS
303	SINGLE DR.	2'-8"X6'-8"	WOOD	-	-
304	SINGLE DR.	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
305	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-
306	DOUBLE DR.	(2)2'-6"X6'-8"	WOOD	-	-
307	BI-FOLD DR.	(2) 2'-6"X6'-8"	WOOD	-	-
308	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-

THIRD FLOOR AREA CALCULATION								
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA
301	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	5,977 S.F.	383 S.F.	12,717 S.F.
302	2	-	1,496 S.F.	134 S.F.	1,630 S.F.			
303	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			
304	1	-	1,095 S.F.	134 S.F.	1,229 S.F.			
305	2	-	1,496 S.F.	134 S.F.	1,630 S.F.	5,977 S.F.	383 S.F.	
306	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			
307	1	-	1,095 S.F.	134 S.F.	1,229 S.F.			
308	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			



SEE SITE
PLAN
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ORIENTATION

OVERALL THIRD FLOOR PLAN

SCALE:
1/8" = 1'-0"

1



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Hendersonville, NC 28792
Luis Graef: President



Orchards
PROPERTIES

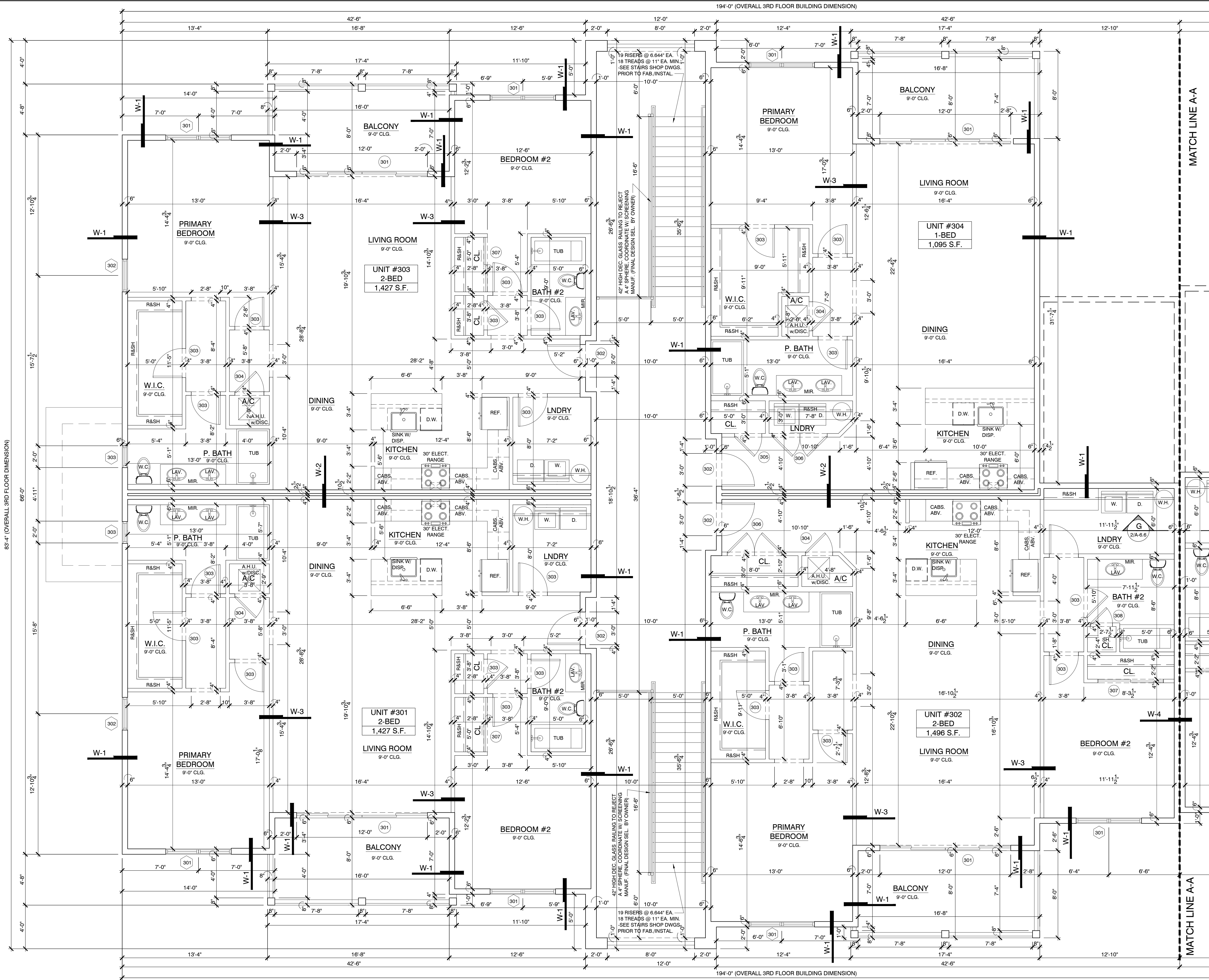
PROJECT:
The Orchards at Naples Road
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Buildings 1&5 - 28 units
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DWG INFO:
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OVERALL 3RD FLOOR PLAN.
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88'-4" (OVERALL 3RD FLOOR DIMENSION)

194'-0" (OVERALL 3RD FLOOR BUILDING DIMENSION)

194'-0" (OVERALL 3RD FLOOR BUILDING DIMENSION)

MATCH LINE A-A

MATCH LINE A-A

SEE A-32

SEE SITE
PLAN
FOR
ORIENTATION

SCALE:
1/4" = 1'-0"

1



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PROJECT:
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Hendersonville, North Carolina

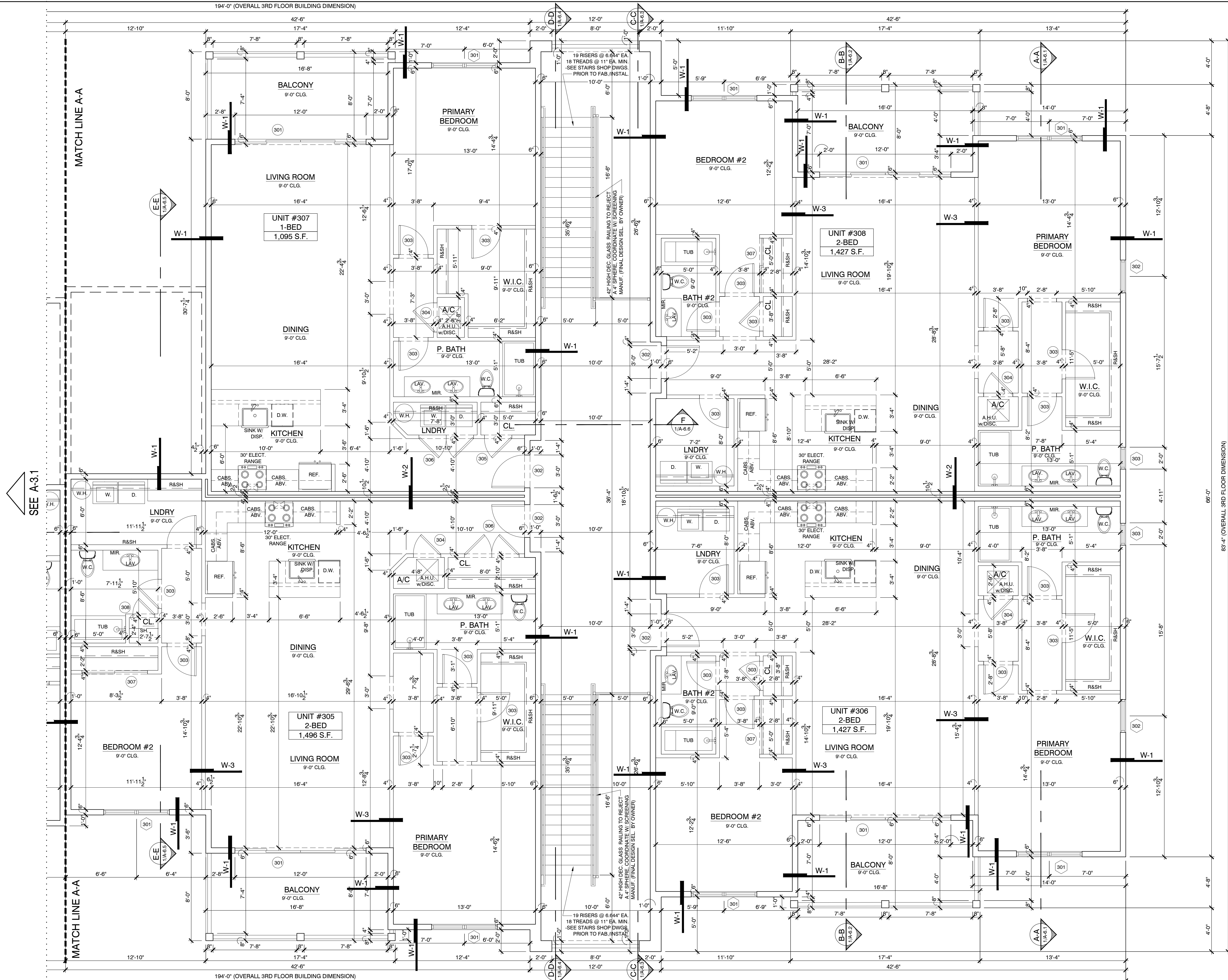
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PARTIAL THIRD FLOOR PLAN



PARTIAL THIRD FLOOR PLAN

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Orchards PROPERTIES

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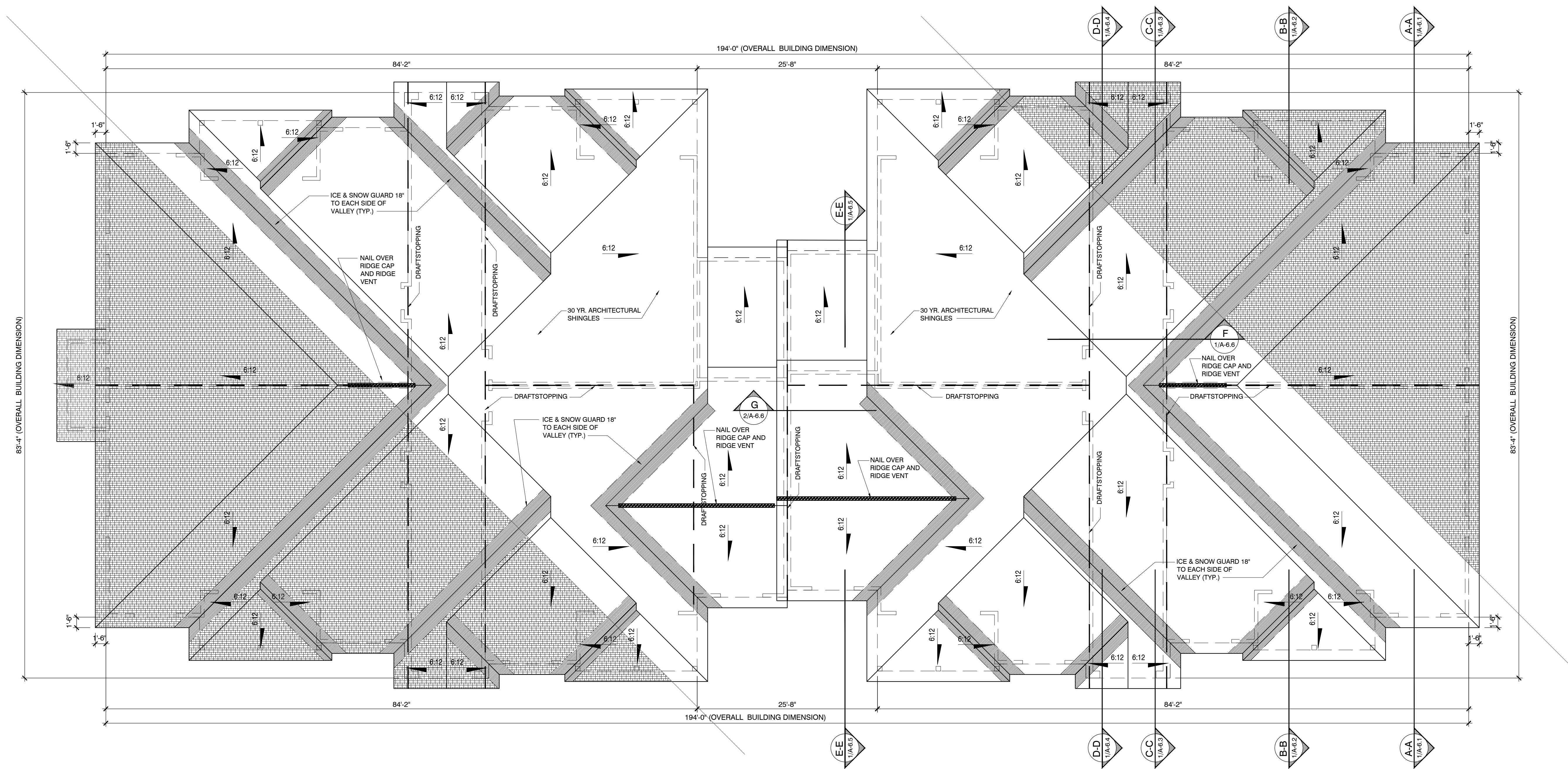
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A-3.2

SEE SITE PLAN FOR ORIENTATION

SCALE:
1/4" = 1'-0"

1

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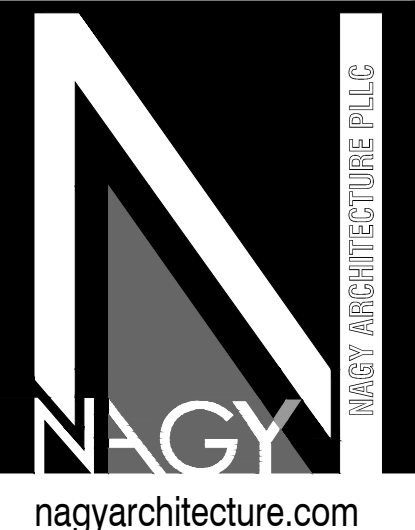


SEE SITE
PLAN
FOR
ORIENTATION

ROOF PLAN
SCALE:
1/8" = 1'-0"

1

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Hendersonville, North Carolina

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SHEET #:
A-4.0

EXTERIOR FINISHES

- 1

COMPOSITE LAP SIDING

- MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
 - CEDAR TEXTURE 70 SERIES LAP.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 2a

BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)

- MANUFACTURER - 2-1/2" LP SMARTSIDE 190 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 3

COMPOSITE SKIRT BOARD TRIM

- MANUFACTURER - 11/21" LP SMARTSIDE 440 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 4

42" HIGH ALUM. GUARDRAIL & BALUSTERS
TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)
- 5

BALCONY COLUMNS

- 6X6 FT WOOD COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 7

WINDOW & CORNER TRIM

- MANUFACTURER - 3-1/2" LP SMARTSIDE 440 SERIES.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHHA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.

- 9

BELT LINE TRIM BOARD

- MANUFACTURER - 3-1/2" LP SMARTSIDE 540 SERIES.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 10

ROOFING

- MANUFACTURER - ATLAS ROOFING, PINNACLE HP - HIGH PERFORMANCE
 - ARCHITECTURAL SHINGLE - SIGNATURE GOLD SERIES SHINGLE.
 - ASPHALT COMPOSITION SHINGLES
 - ARCHITECTURAL SHINGLE, CLASS C UL RATING.
 - 130 MPH WIND RESISTANCE WARRANTY, 35 YEAR LIMITED WARRANTY.
 - COLOR: WEATHERED WOOD.
- 11

COMPOSITE PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.
- 12

BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (NICKLE GAP 7.88").
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).
 - COLOR: LIGHT GREEN - VERIFY WITH OWNER.
- 13

Z" FLASHING

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

- 14

FASCIA BOARD

- BREAK METAL FASCIA - VERIFY WITH OWNER.
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 14a

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED. (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 15

FRIEZE BOARD

- LP SMARTSIDE 7.21" (540 SERIES).
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC AMENDMENTS.
DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE.

-CONNECT ALL DOWNSPOUTS TO COMMON COLLECTOR LINE (TYP.) - SEE CIVIL PLANS.

- INSTALL CORNER GUARD AT 90° GUTTER CORNERS TO PREVENT OVERSPILL AT ROOF VALLEYS.

EXTERIOR DOORS

- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

EXHAUST AND VENT HOODS

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.



PARTIAL FRONT ELEVATION

SCALE:
1/4" = 1'-0"

1

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EXTERIOR FINISHES

1 COMPOSITE LAP SIDING

- MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
- CEDAR TEXTURE 76 SERIES LAP.
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
- G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.

2 COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE).
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.

2a BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)

- MANUFACTURER - 2-1/2" LP SMARTSIDE 190 SERIES.
- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE).
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.

3 COMPOSITE SKIRT BOARD TRIM

- MANUFACTURER - 11.21" LP SMARTSIDE 440 SERIES.
- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE).
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: WHITE. VERIFY COLOR WITH OWNER.

4 42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)

5 BALCONY COLUMNS

- 6X6 PT WOOD COLUMNS.
- COLOR: PAINT WHITE TO MATCH WINDOW TRIMS

6 FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
- CEDAR TEXTURE SHAKES 38 SERIES.
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.

6 FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
- CEDAR TEXTURE SHAKES 38 SERIES.
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.

7 WINDOW & CORNER TRIM

- MANUFACTURER - 3-1/2" LP SMARTSIDE 440 SERIES.
- CEDAR TEXTURE SHAKES 38 SERIES.
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: WHITE. VERIFY COLOR WITH OWNER.

8 COMPOSITE CLADDING

- MANUFACTURER - NICHIA BRICK SERIES.
- COLOR AND STYLE - PLYMOUTH BRICK.
- INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- G.C. SHALL SUBMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.

9 BELT LINE TRIM BOARD

- MANUFACTURER - 3-1/2" LP SMARTSIDE 540 SERIES.
- CEDAR TEXTURE SHAKES 38 SERIES.
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: WHITE. VERIFY COLOR WITH OWNER.

10 ROOFING

- MANUFACTURER - ATLAS ROOFING, PINNACLE HP - HIGH PERFORMANCE
- ARCHITECTURAL SHINGLE - SIGNATURE GOLD SERIES SHINGLE.
- ASPHALT COMPOSITION SHINGLES.
- ARCHITECTURAL SHINGLE CLASS C UL RATING.
- 130 MPH WIND RESISTANCE WARRANTY, 35 YEAR LIMITED WARRANTY.
- COLOR: WEATHERED WOOD.

11 COMPOSITE PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE).
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.

12 BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- LP SMARTSIDE
- CEDAR TEXTURE PANEL SIDING (NICKLE GAP 7.88").
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).
- COLOR: LIGHT GREEN - VERIFY WITH OWNER.

13 "Z" FLASHING

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

14 FASCIA BOARD

- BREAK METAL FASCIA - VERIFY WITH OWNER.
- CEDAR TEXTURE PANEL (38 SERIES)
- COLOR: WHITE - VERIFY WITH OWNER.
- INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

14a EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
- CEDAR TEXTURE PANEL VENTED SOFFIT.
- INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: WHITE. VERIFY COLOR WITH OWNER.

14b BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
- CEDAR TEXTURE NON VENTED. (76 SERIES).
- INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

15 FRIEZE BOARD

- LP SMARTSIDE 7.21" (540 SERIES).
- CEDAR TEXTURE PANEL (38 SERIES)
- COLOR: WHITE - VERIFY WITH OWNER.
- INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC AMENDMENTS.

DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE.

-CONNECT ALL DOWNSPOUTS TO COMMON COLLECTOR LINE (TYP.) - SEE CIVIL PLANS.

-INSTALL CORNER GUARD AT 90° GUTTER CORNERS TO PREVENT OVERSPILL AT ROOF VALLEYS.

EXTERIOR DOORS

- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

EXHAUST AND VENT HOODS

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.

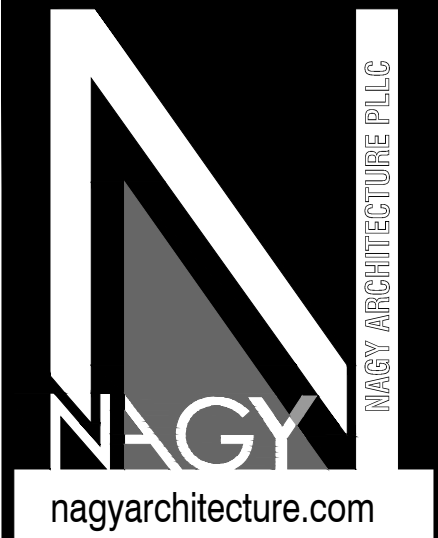


PARTIAL FRONT ELEVATION

SCALE:
1/4" = 1'-0"

1

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Mob: 561-289-1634
Tel: 561-549-1986

SIGNATURE:

CLIENT:
The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Buildings 1&5 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
DRAWN BY: GAN, LBN
CHECKED BY: GAN

DWG DESCRIPTION:
PARTIAL FRONT ELEVATION
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

SHEET #:
A-5.2

EXTERIOR FINISHES

- 1

COMPOSITE LAP SIDING

- MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
 - CEDAR TEXTURE 76 SERIES LAP.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 2a

BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)

- MANUFACTURER - 2-1/2" LP SMARTSIDE 190 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 3

COMPOSITE SKIRT BOARD TRIM

- MANUFACTURER - 11.21" LP SMARTSIDE 440 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 4

42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)
- 5

BALCONY COLUMNS

- 6x6 PT WOOD COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 7

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHIA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 9

BELT LINE TRIM BOARD

- MANUFACTURER - 3-1/2" LP SMARTSIDE 540 SERIES.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 10

ROOFING

- MANUFACTURER - ATLAS ROOFING, PINNACLE HP - HIGH PERFORMANCE
 - ARCHITECTURAL SHINGLE - SIGNATURE GOLD SERIES SHINGLE.
 - ASPHALT COMPOSITION SHINGLES.
 - ARCHITECTURAL SHINGLE, CLASS C UL RATING.
 - 130 MPH WIND RESISTANCE WARRANTY, 35 YEAR LIMITED WARRANTY.
 - COLOR: WEATHERED WOOD.
- 11

COMPOSITE PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.
- 12

BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (NICKLE GAP (7.89"))
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).
 - COLOR: LIGHT GREEN - VERIFY WITH OWNER.
- 13

"Z" FLASHING

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.
- 14

FASCIA BOARD

- BREAK METAL FASCIA - VERIFY WITH OWNER.
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 14a

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED. (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 15

FRIEZE BOARD

- LP SMARTSIDE 7.21" (640 SERIES)
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC AMENDMENTS.

DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE.

-CONNECT ALL DOWNSPOUTS TO COMMON COLLECTOR LINE (TYP.) - SEE CIVIL PLANS.

- INSTALL CORNER GUARD AT 90° GUTTER CORNERS TO PREVENT OVERSPILL AT ROOF VALLEYS.

EXTERIOR DOORS

- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

EXHAUST AND VENT HOODS

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.

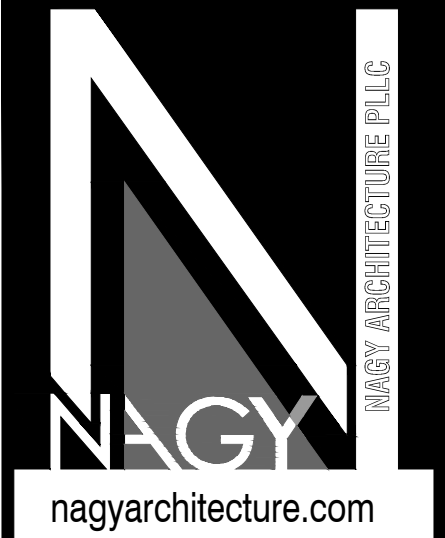


RIGHT SIDE ELEVATION

SCALE:
1/4" = 1'-0"

1

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The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Buildings 1&5 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
DRAWN BY: GAN, LBN
CHECKED BY: GAN

DWG DESCRIPTION:
RIGHT SIDE ELEVATION
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

SHEET #:
A-5.3

EXTERIOR FINISHES

- 1

COMPOSITE LAP SIDING

- MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
 - CEDAR TEXTURE 76 SERIES LAP.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 2a

BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)

- MANUFACTURER - 2-1/2" LP SMARTSIDE 190 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 3

COMPOSITE SKIRT BOARD TRIM

- MANUFACTURER - 11/21" LP SMARTSIDE 440 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 4

42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)
- 5

BALCONY COLUMNS

- 6X6 PT WOOD COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 7

WINDOW & CORNER TRIM

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 7

WINDOW & CORNER TRIM

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHHA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHHA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 9

BELT LINE TRIM BOARD

- MANUFACTURER - 3-1/2" LP SMARTSIDE 540 SERIES.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 10

ROOFING

- MANUFACTURER - ATLAS ROOFING, PINNACLE HP - HIGH PERFORMANCE
 - ARCHITECTURAL SHINGLE - SIGNATURE GOLD SERIES SHINGLE.
 - ASPHALT COMPOSITION SHINGLES.
 - ARCHITECTURAL SHINGLE, CLASS C UL RATING.
 - 130 MPH WIND RESISTANCE WARRANTY, 35 YEAR LIMITED WARRANTY.
 - COLOR: WEATHERED WOOD.
- 11

COMPOSITE PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.
- 11

COMPOSITE PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.
- 12

BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (NICKLE GAP (7.88")
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).
 - COLOR: LIGHT GREEN - VERIFY WITH OWNER.
- 12

BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (NICKLE GAP (7.88")
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).
 - COLOR: LIGHT GREEN - VERIFY WITH OWNER.
- 13

"Z" FLASHING

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.
- 13

"Z" FLASHING

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.
- 14

FASCIA BOARD

- BREAK METAL FASCIA - VERIFY WITH OWNER.
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 14a

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED, (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 15

FRIEZE BOARD

- LP SMARTSIDE 7/21" (540 SERIES).
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 15

FRIEZE BOARD

- LP SMARTSIDE 7/21" (540 SERIES).
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

NOTE:

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-CONNECT ALL DOWNSPOUTS TO COMMON COLLECTOR LINE (TYP.) - SEE CIVIL PLANS.

- INSTALL CORNER GUARD AT 90° GUTTER CORNERS TO PREVENT OVERSPILL AT ROOF VALLEYS.

EXTERIOR DOORS

- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

EXHAUST AND VENT HOODS

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.



PARTIAL REAR ELEVATION

SCALE: 1/4" = 1'-0"

1

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A-5.4

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SEE A-5.5

EXTERIOR FINISHES

- 1

COMPOSITE LAP SIDING

- MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
 - CEDAR TEXTURE 76 SERIES LAP.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 2a

BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)

- MANUFACTURER - 2-1/2" LP SMARTSIDE 190 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 3

COMPOSITE SKIRT BOARD TRIM

- MANUFACTURER - 11-21" LP SMARTSIDE 440 SERIES.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 4

42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)
- 5

BALCONY COLUMNS

- 6X6 PT WOOD COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 7

WINDOW & CORNER TRIM

- MANUFACTURER - 3-1/2" LP SMARTSIDE 440 SERIES.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHHA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
- 9

BELT LINE TRIM BOARD

- MANUFACTURER - 3-1/2" LP SMARTSIDE 540 SERIES.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 10

ROOFING

- MANUFACTURER - ATLAS ROOFING, PINNACLE HP - HIGH PERFORMANCE
 - ARCHITECTURAL SHINGLE - SIGNATURE GOLD SERIES SHINGLE.
 - ASPHALT COMPOSITION SHINGLES.
 - ARCHITECTURAL SHINGLE, CLASS C UL RATING.
 - 130 MPH WIND RESISTANCE WARRANTY, 35 YEAR LIMITED WARRANTY.
 - COLOR: WEATHERED WOOD.
- 11

COMPOSITE PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.
- 12

BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (NICKLE GAP (7.88").
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).
 - COLOR: LIGHT GREEN - VERIFY WITH OWNER.
- 13

Z" FLASHING

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.
- 14

FASCIA BOARD

- BREAK METAL FASCIA - VERIFY WITH OWNER.
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 14a

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED. (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 15

FRIEZE BOARD

- LP SMARTSIDE 7.21" (540 SERIES).
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC AMENDMENTS.

DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE.

-CONNECT ALL DOWNSPOUTS TO COMMON COLLECTOR LINE (TYP.) - SEE CIVIL PLANS.

- INSTALL CORNER GUARD AT 90° GUTTER CORNERS TO PREVENT OVERSPILL AT ROOF VALLEYS.

EXTERIOR DOORS

- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

EXHAUST AND VENT HOODS

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.

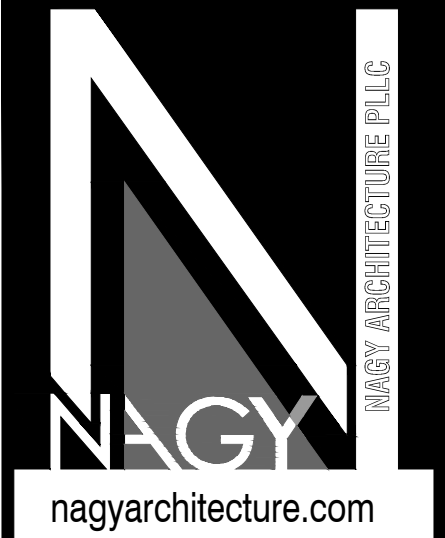


PARTIAL REAR ELEVATION

SCALE:
1/4" = 1'-0"

1

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NAGY ARCHITECTURE PLLC
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Tel: 561-549-1986

SIGNATURE:

CLIENT:
The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Buildings 1&5 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
DRAWN BY: GAN, LBN
CHECKED BY: GAN

DWG DESCRIPTION:
PARTIAL REAR ELEVATION
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

SHEET #:

A-5.5

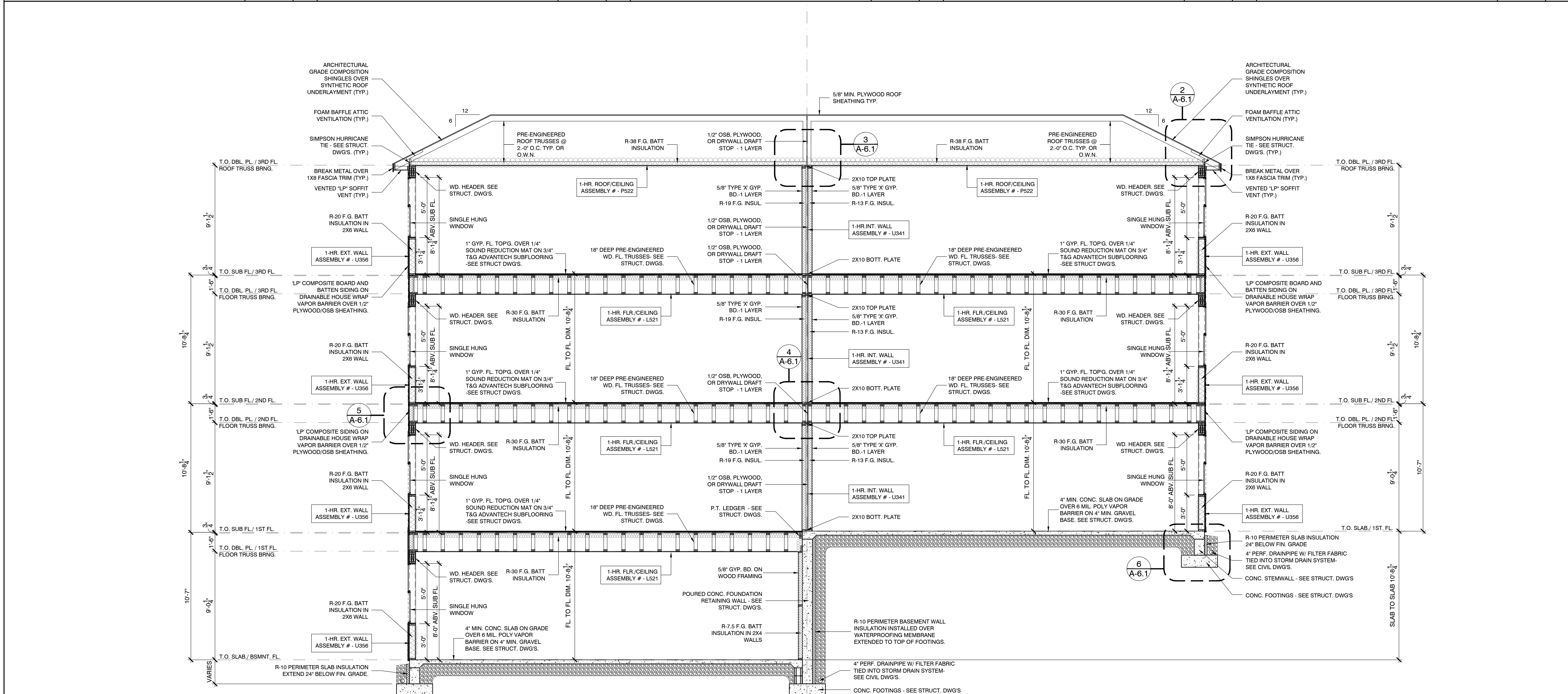
1	<p>COMPOSITE LAP SIDING</p> <ul style="list-style-type: none"> - MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER. - CEDAR TEXTURE 70 SERIES LAF. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: DARK GREEN (6192 COASTAL PLAIN). <u>VERIFY COLOR WITH OWNER.</u> - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL. 	4	<p>FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS</p> <ul style="list-style-type: none"> - MANUFACTURER - LP SMARTSIDE. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u> - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
2	<p>COMPOSITE LAP PANEL SIDING</p> <ul style="list-style-type: none"> - MANUFACTURER - LP SP-STRISIDE. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u> 	6	<p>FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS</p> <ul style="list-style-type: none"> - MANUFACTURER - LP SMARTSIDE. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u> - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
2a	<p>BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)</p> <ul style="list-style-type: none"> - MANUFACTURER - 2-1/2" LP SMARTSIDE 190 SERIES. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u> 	7	<p>WINDOW & CORNER TRIM</p> <ul style="list-style-type: none"> - MANUFACTURER - 3-1/2" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. <u>VERIFY COLOR WITH OWNER.</u>
3	<p>COMPOSITE SKIRT BOARD TRIM</p> <ul style="list-style-type: none"> - MANUFACTURER - 11-21" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. <u>VERIFY COLOR WITH OWNER.</u> 	8	<p>COMPOSITE CLADDING</p> <ul style="list-style-type: none"> - MANUFACTURER - NICHIA BRICK SERIES. - COLOR AND STYLE - PLYMOUTH BRICK. - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.
4	<p>42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)</p>		
5	<p>BALCONY COLUMNS</p> <ul style="list-style-type: none"> - 6X6 PT WOOD COLUMNS. - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS 		

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.



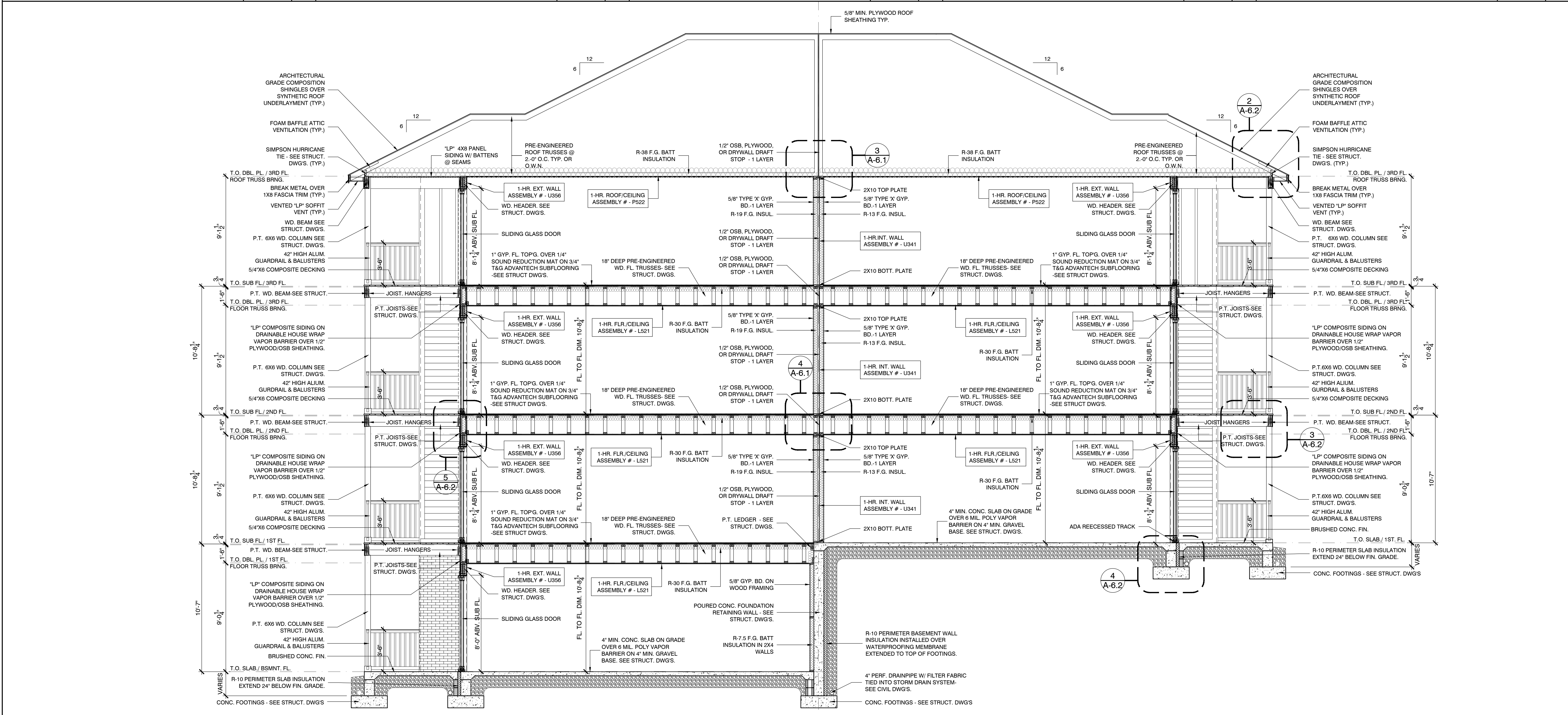
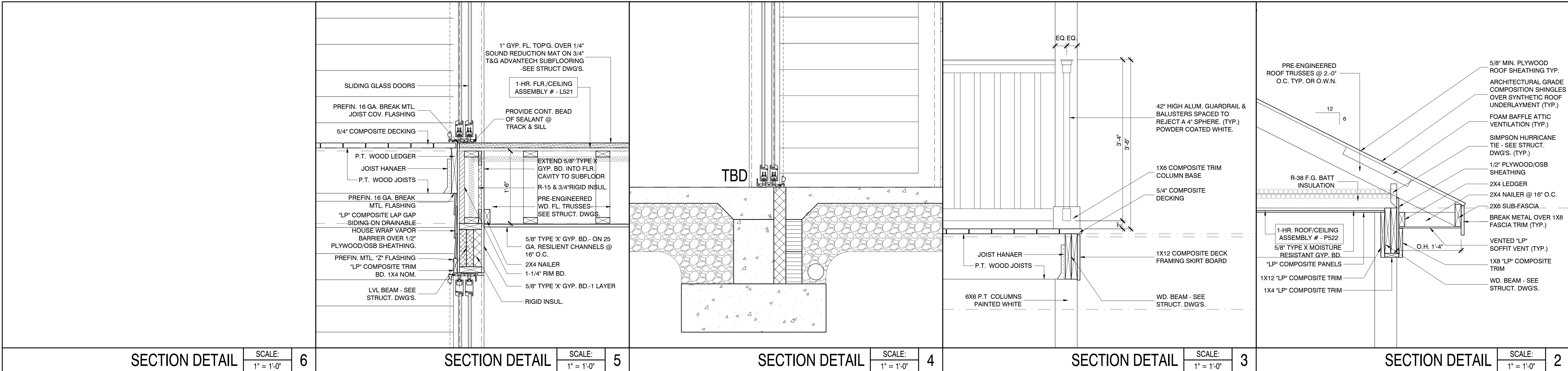
SHEET #:
A-5.6



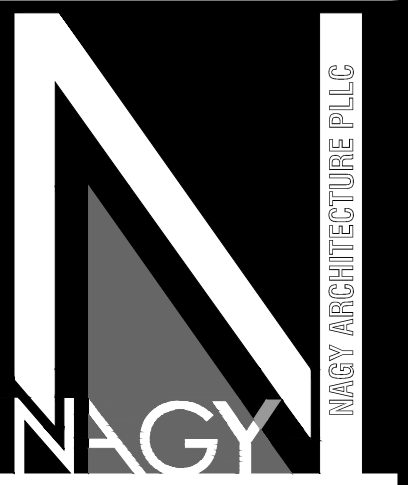


SHEET #:

A-6.1



BUILDING SECTION "B-B" SCALE: 1/4" = 1'-0" 1



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CLIENT:
The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Buildings 1&5 - 28 units
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DWG INFO:
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DWG DESCRIPTION:
BUILDING SECTION "B-B"
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SHEET #:
A-6.2



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The orchards at Naples Road, L
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is Graef: President



PROJECT:

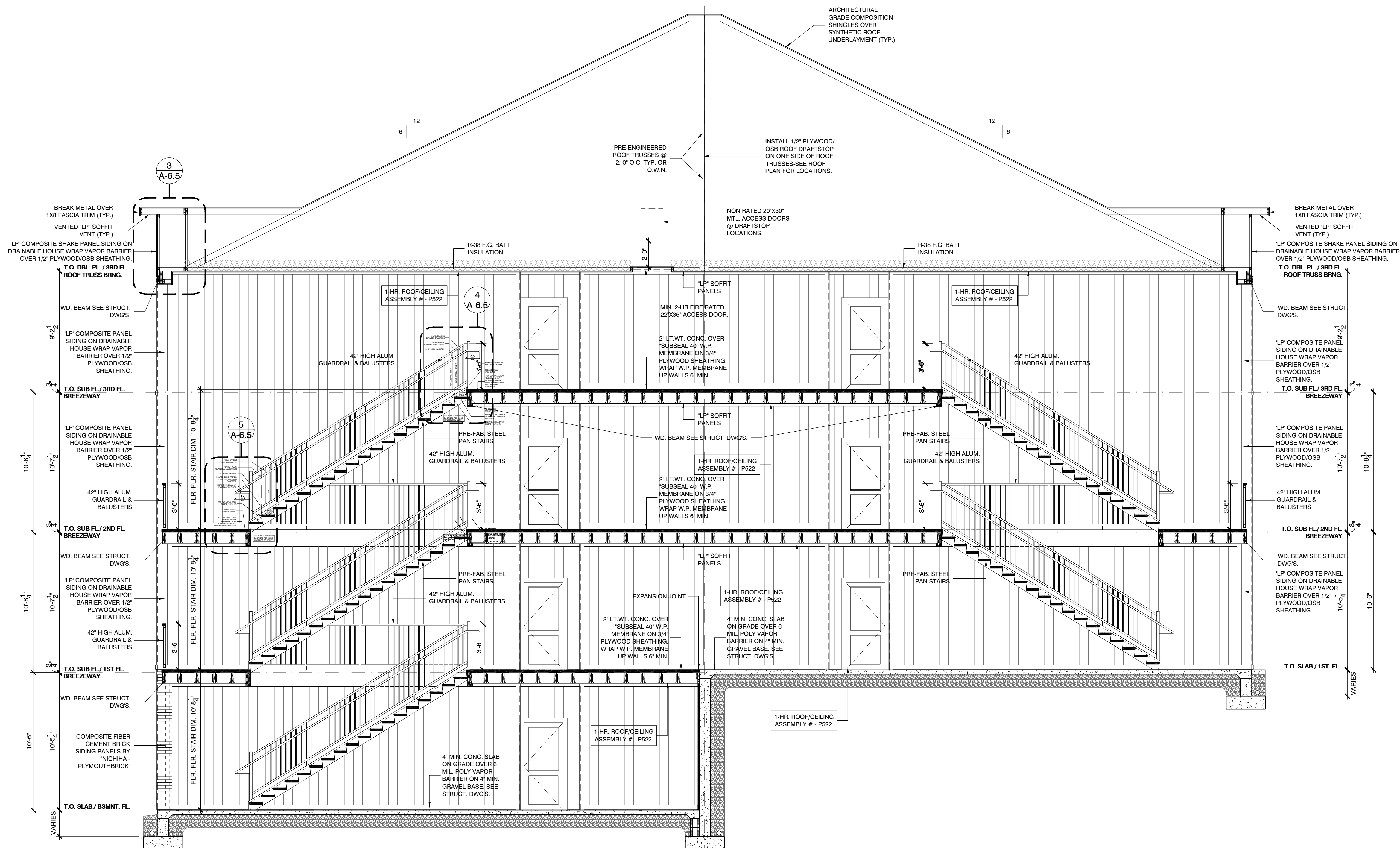
The Orchards at Naples Road
Apartment Complex
Buildings 1 & 5 - 28 units
Hendersonville, North Carolina

[illegible]

DWG INFO :
 ISSUE DATE: 05/02/25
 PROJECT #: 22105
 DRAWN BY: GAN , LBN
 CHECKED BY: GAN

DWG DESCRIPTION :
BUILDING SECTION "C-C"
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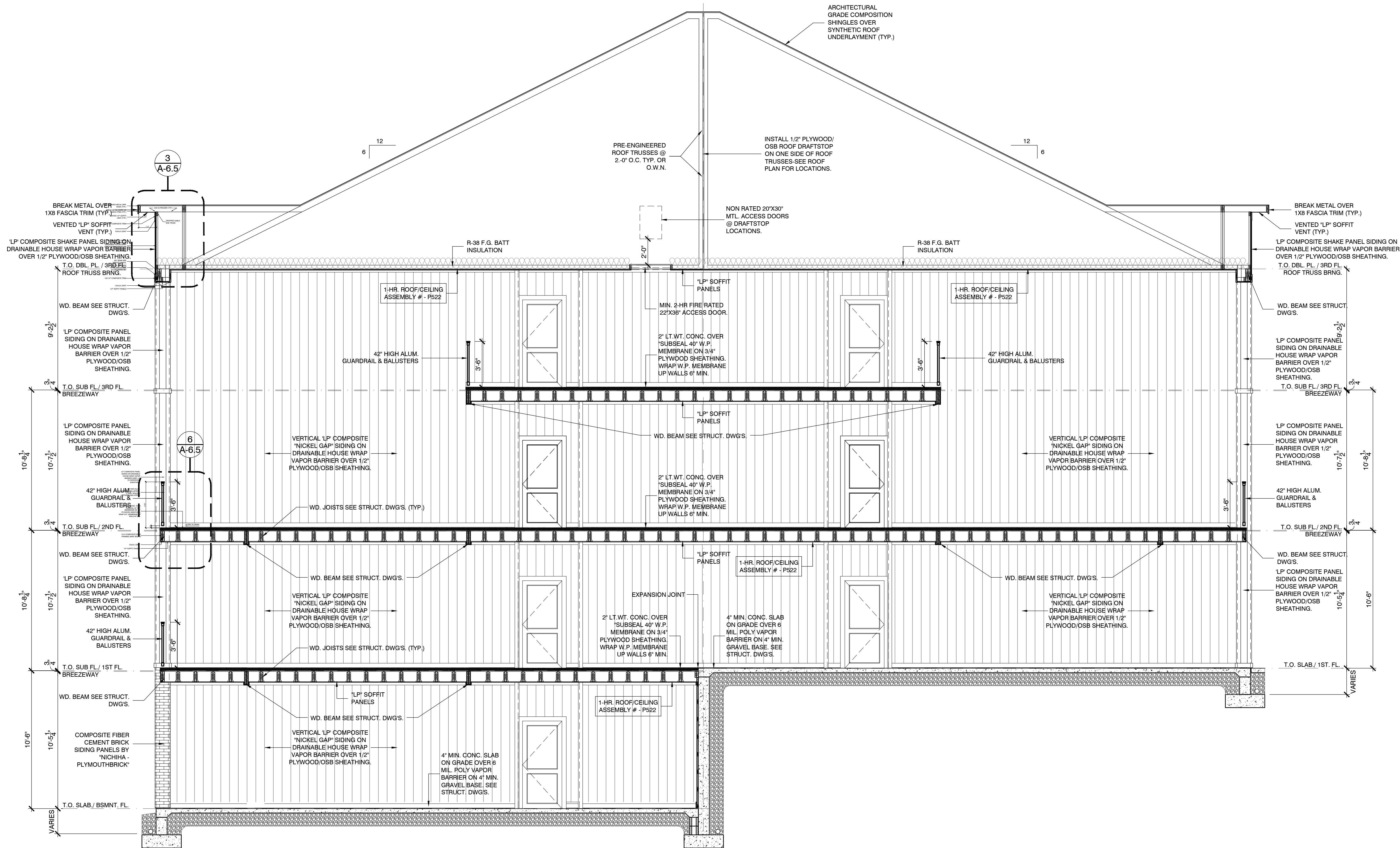
SHEET #:
A-6.3



BUILDING SECTION "C-C"

SCALE:
1/4" = 1'-0"

1



BUILDING SECTION "D-D" SCALE: 1/4" = 1'-0" 1



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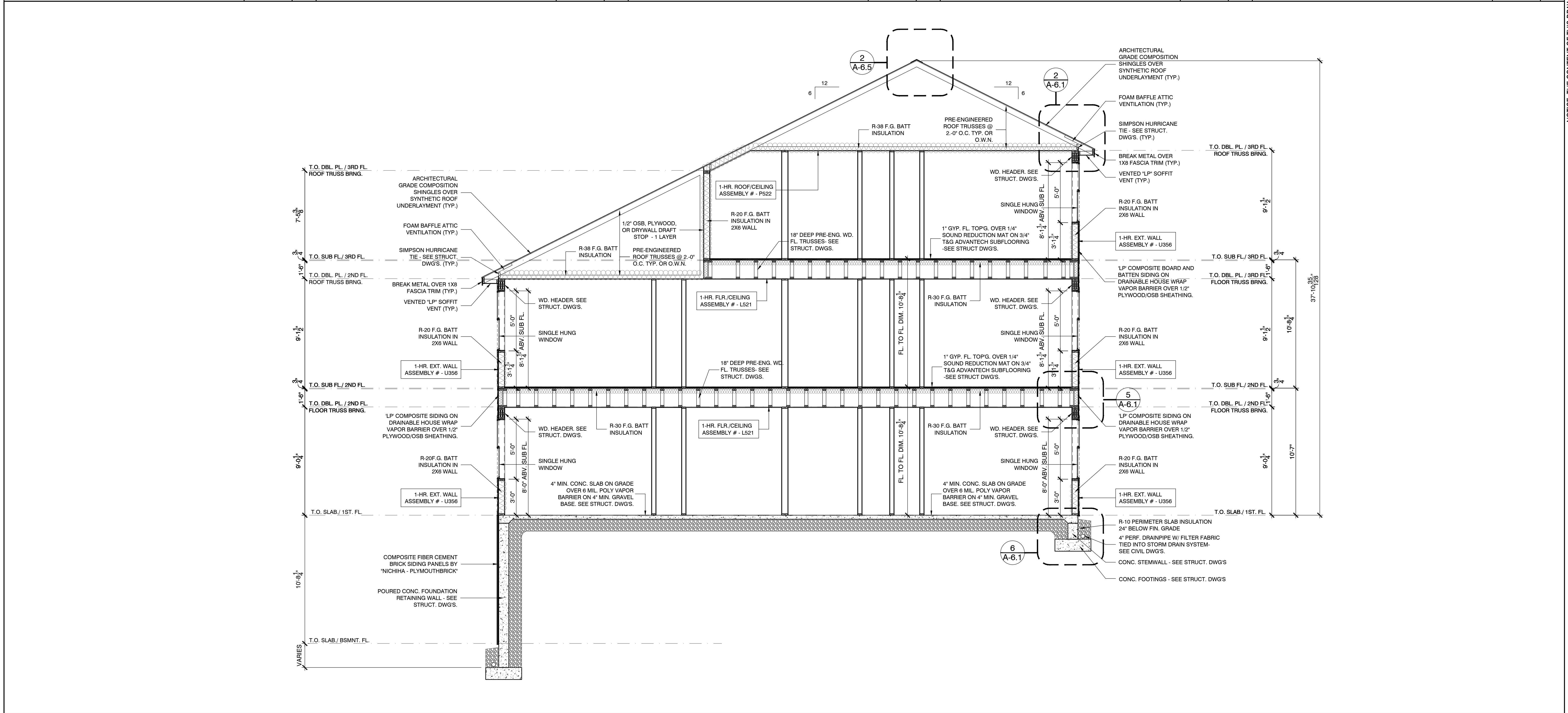
PROJECT:
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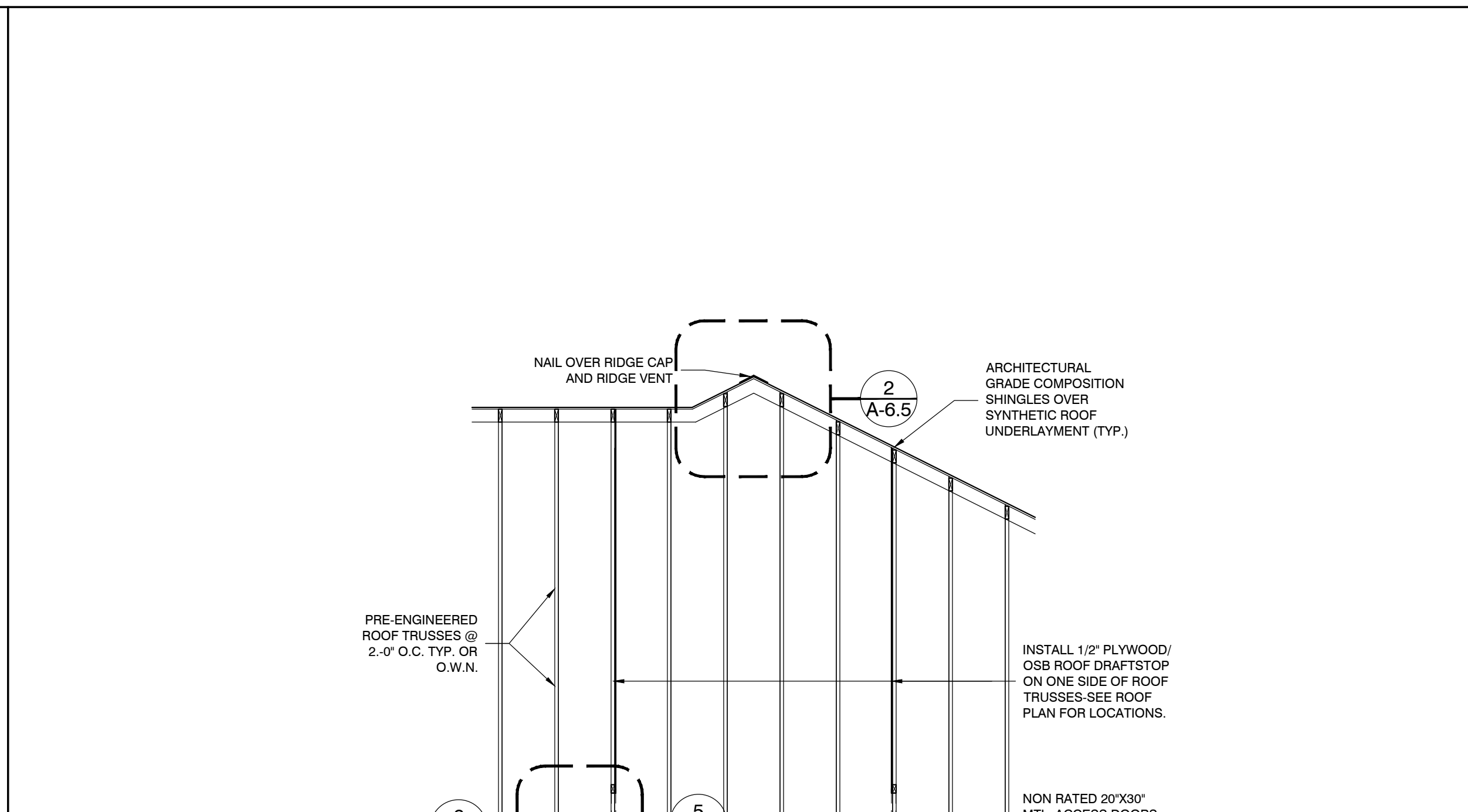
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ISSUE DATE: 05/02/25
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CHECKED BY: GAN

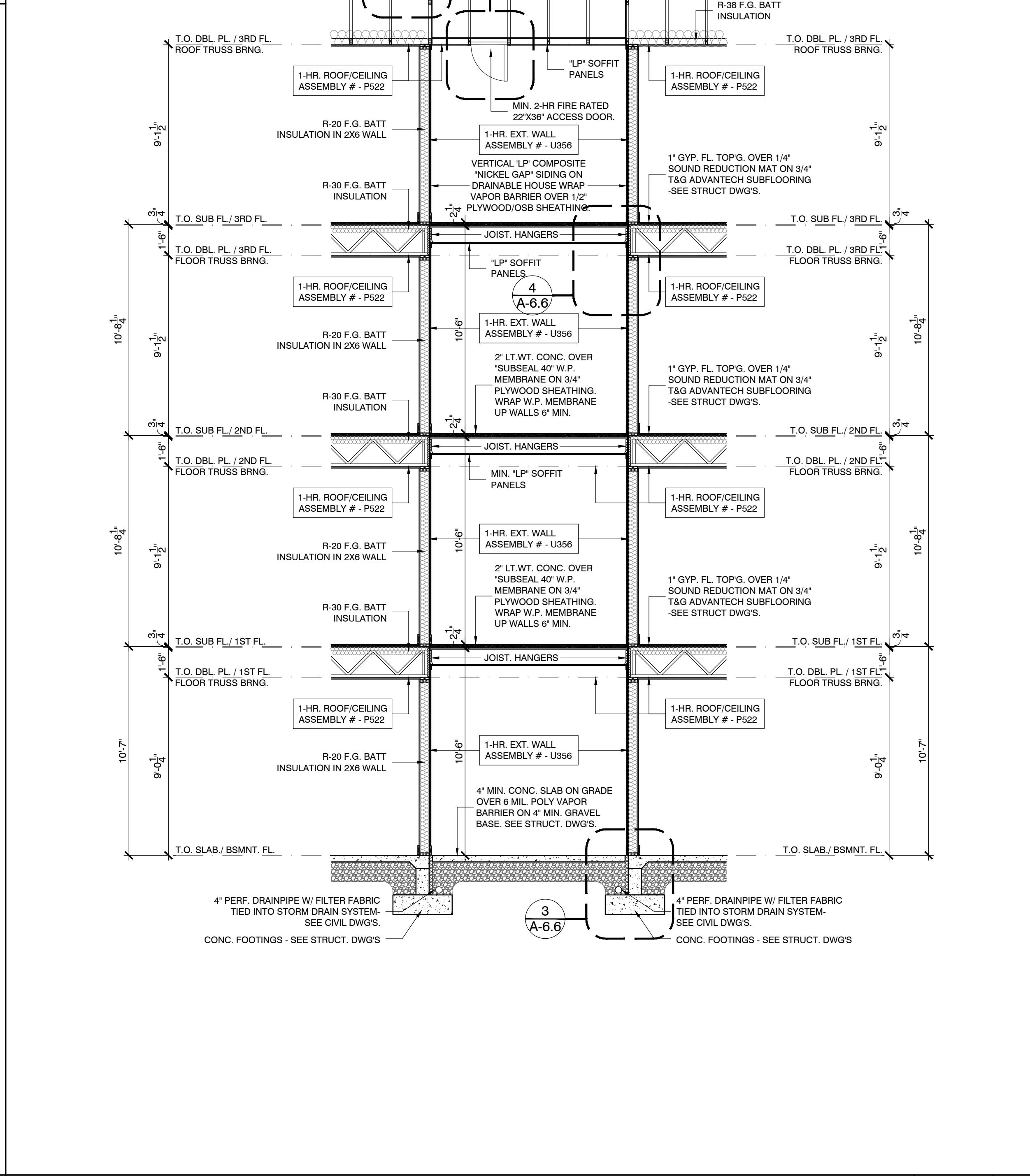
DWG DESCRIPTION:
BUILDING SECTION "D-D"
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

SHEET #:
A-6.4

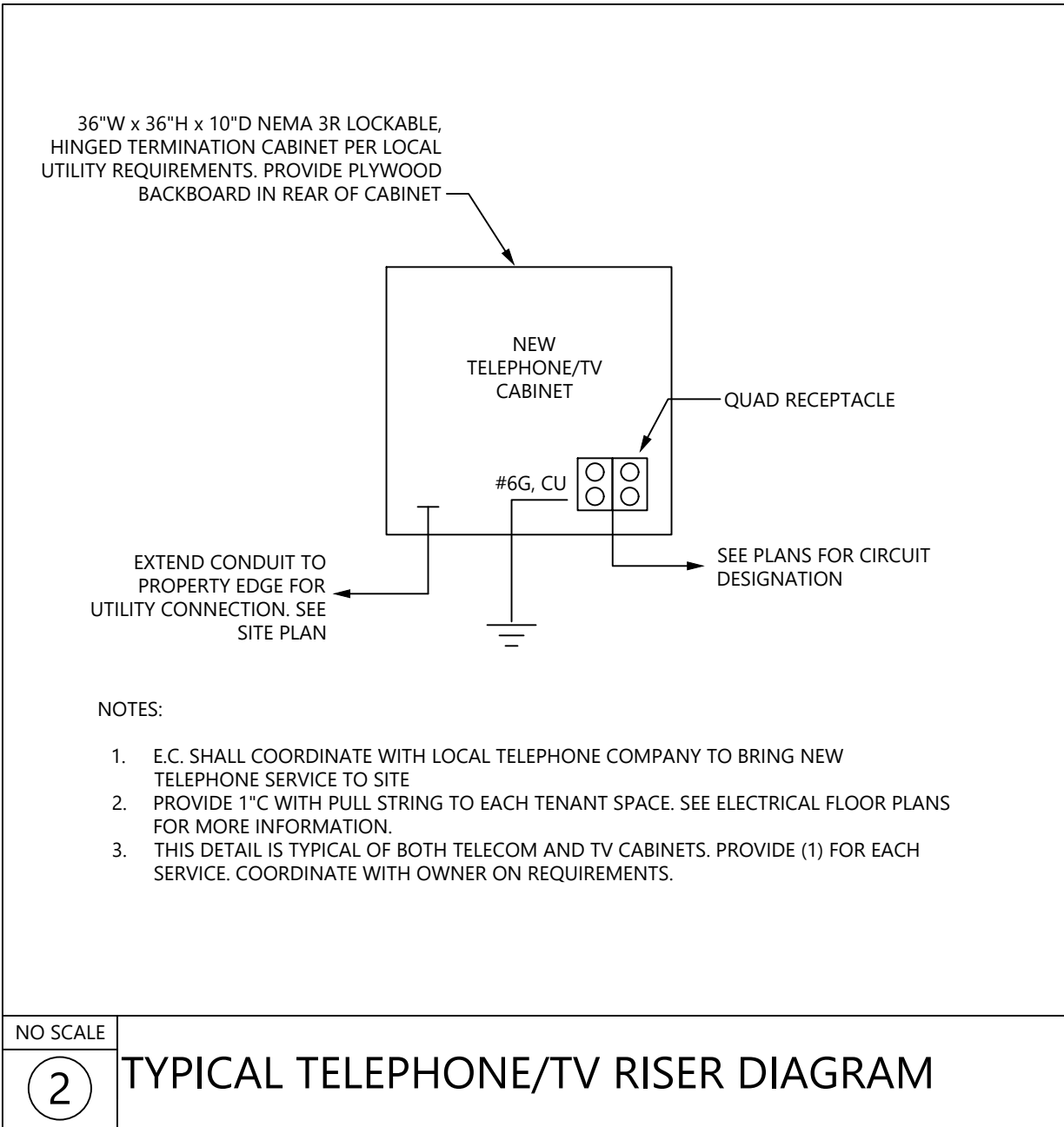
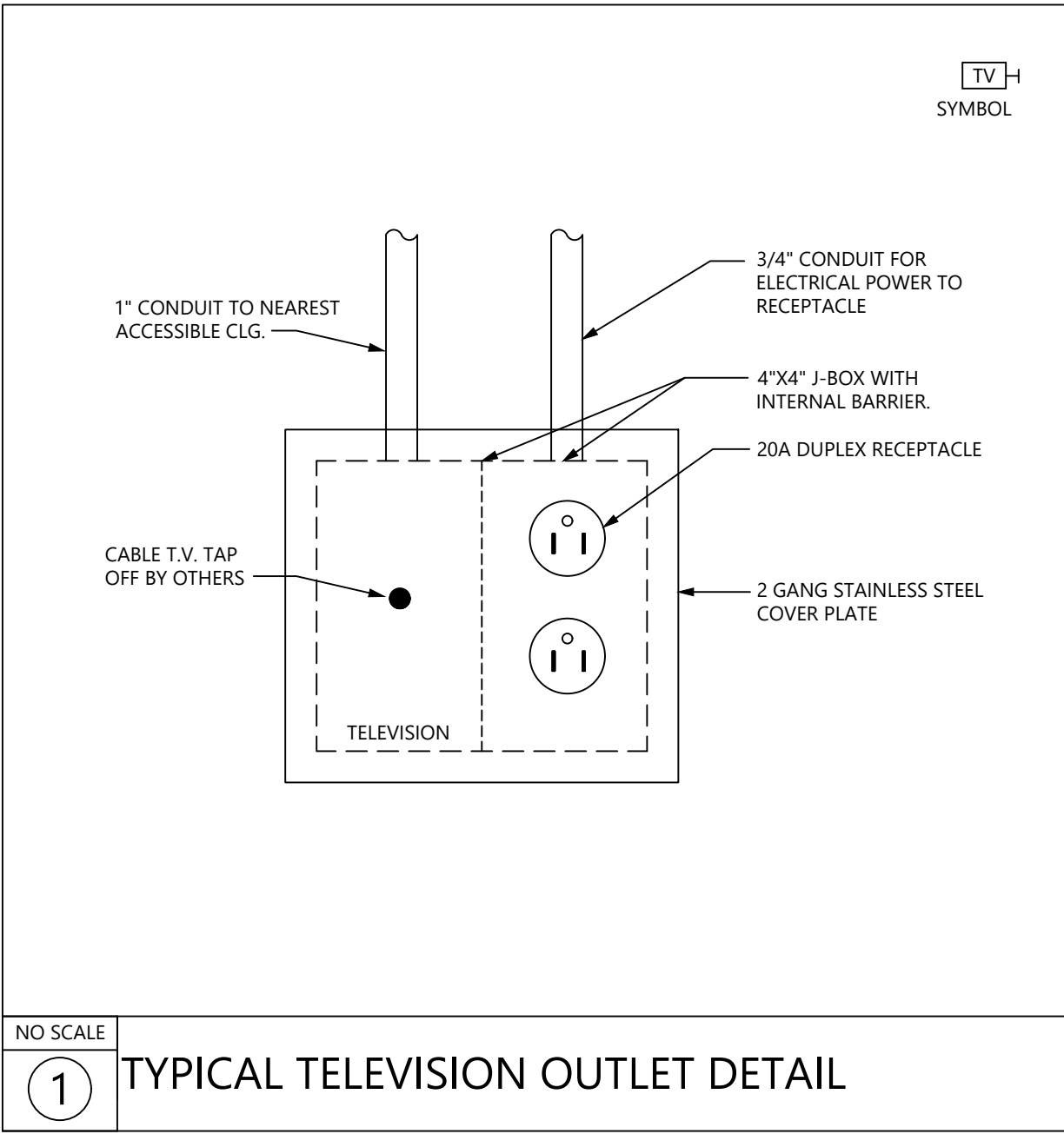




SECTION DETAIL	SCALE:	3
	1" = 1'-0"	



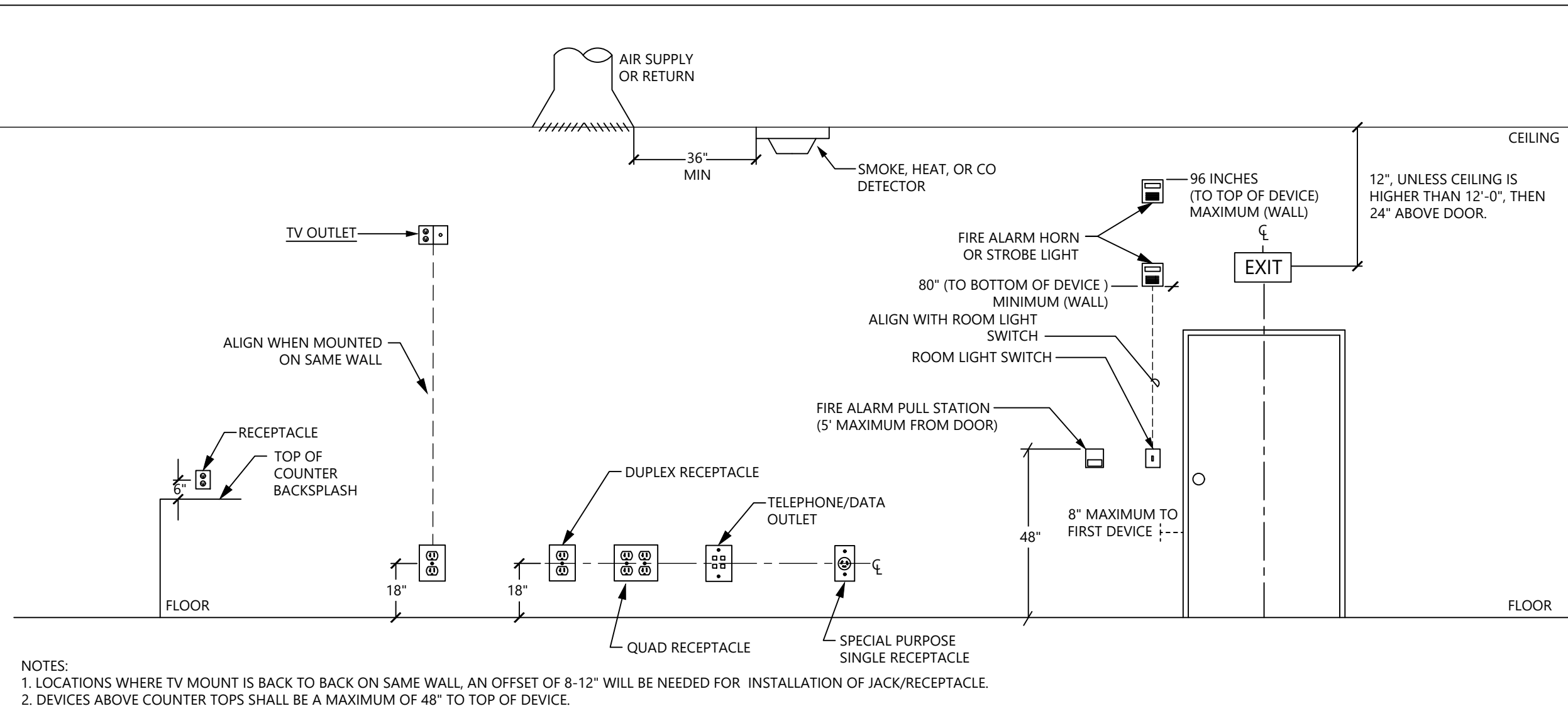
PARTIAL BUILDING SECTION "F"	SCALE:	1
	1/4" = 1'-0"	



LIGHT FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LUMENS	CCT	WATTS	DRIVER	VOLTAGE	MANUFACTURER	MODEL	REMARKS
A	6" ROUND SURFACE MOUNTED DOWNLIGHT	1,000	3000K	15W	INTEGRAL LED DRIVER	120V	PRESCOUTE	LBSD-RD	MATTE WHITE FINISH FIELD SELECTABLE LUMENS SWITCHABLE CCT
B	BREEZEWAY EXTERIOR WALL LIGHT	546	3000K	12.5W	INTEGRAL LED DRIVER	120V	LIGHTWAY	MENW-600-LED-F	VERIFY FINISH WITH ARCHITECT WET LOCATION LISTED
C	6"Wx12"H EXTERIOR PATIO LIGHT	1,000	3500K	12W	INTEGRAL LED DRIVER	120V	LIGHTWAY	MENW-600-LED-F	VERIFY FINISH WITH ARCHITECT WET LOCATION LISTED
D	4 FT. LED STRIP	5,000	3500K	42W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	COOPER	SNX	PROVIDE CHAIN FOR PENDANT MOUNTING PROVIDE WIRE GUARD LENSED DLC LISTED
E1	EXTERIOR EMERGENCY BATTERY EGRESS LIGHT AIMABLE	-	3500K	2W	INTEGRAL LED DRIVER	120V	EXIT LIGHT CO.	EL-LWET	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY WHITE
E2	EXTERIOR EMERGENCY BATTERY EGRESS LIGHT AND EXIT COMBO	-	3500K	3W	INTEGRAL LED DRIVER	120V	EXIT LIGHT CO.	WLF-COMBO	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY WET LOCATION LISTED RATED FOR OUTDOOR USE WHITE HOUSING, RED LETTERING
NOTES:									
1	ALL FIXTURES SHALL BE LED UNLESS OTHERWISE SPECIFIED. COLOR TEMPERATURE SHALL BE 3500K UNLESS OTHERWISE NOTED.								
2	LED DRIVERS SHALL BE PROVIDED AS PER MANUFACTURER RECOMMENDATIONS.								
3	COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.								
4	FIXTURES IN FIRE RATED CEILING SHALL BE PROVIDED WITH FIRE RATED TENTS AS REQUIRED.								
5	SUSPEND ALL FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.								
6	FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SUPPLIED WITH 1100 LUMEN INVERTERS.								
7	PROVIDE INTEGRAL SURGE PROTECTION ON ALL EXTERIOR LED DRIVER FIXTURE TYPES.								
8	DIMMING OF FIXTURES SHALL BE WITH A SWITCH AS RECOMMENDED BY THE DRIVER MANUFACTURER. COORDINATE COMPATABILITY OF ALL SWITCHES WITH APPROVED FIXTURES PRIOR TO ORDERING.								
9	THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.								
10	DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.								
11	NO SUBSTITUTIONS WILL BE ALLOWED DUE TO LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.								
12	ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.								
13	FIXTURES TO BE INSTALLED IN CEILINGS, INDICATED ON ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.								
14	LED DRIVERS LOCATED IN UNCONDITIONED SPACES SHALL BE RATED FOR 90 DEGREES F.								
15	PROVIDE 90 MINUTE EMERGENCY BATTERY BACK UP. EMERGENCY BACK UP SHALL BE BASED ON TYPE OF FIXTURE, LED DRIVER, BALLAST, ETC. EMERGENCY BACKUP SHALL BE DUAL INPUT FOR BOTH SWITCHING AND CHARGING. PROVIDE UNSWITCHED "HOT" FROM LOCAL CIRCUIT UNLESS OTHERWISE INDICATED ON PLANS. PROVIDE WITH INDICATOR LIGHT. INSTALL LED INDICATOR ON LIGHT FIXTURE UNLESS DECORATIVE. DECORATIVE FIXTURES SHALL HAVE INDICATOR PLACED AT LOCAL CEILING. BODINE, PHILLIPS, POWER SENTRY OR EQUAL.								
16	CONTRACTOR SHALL INCLUDE IN BID LABOR AND MATERIAL FOR UP TO (3) ADDITIONAL EXIT SIGNS AND (5) ADDITIONAL EMERGENCY BUGEYE FIXTURES AS REQUIRED BY LOCAL AHJ.								

DEVICES AND PATHWAYS	
	CONDUIT AND/OR WIRING SYSTEM CONCEALED BEHIND WALL OR ABOVE CEILING.
	CONDUIT AND/OR WIRING SYSTEM CONCEALED IN SLAB, UNDER SLAB, OR UNDERGROUND.
	CIRCUIT HOMERUN TO PANEL CALLED OUT ON PLANS. EACH ARROWHEAD REPRESENTS (1) CIRCUIT.
	DUPLEX RECEPTACLE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR TYPE AND EQUALS.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER OR AT HEIGHT NOTED. MOUNT 48" TO CENTER OF DEVICE IF NO HEIGHT NOTED AND/OR NOT SHOWN AT A COUNTER TOP.
	QUAD RECEPTACLE, (2) 5-20R DUPLEX RECEPTACLES.
	QUAD RECEPTACLE FOR ELECTRIC WATER COOLER. EXACT LOCATION SHALL BE COORDINATED WITH PLUMBING CONTRACTOR. PROVIDE CIRCUIT WITH GFI (CLASS-A 6mA, PERSONNEL) BREAKER.
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R.
	DUPLEX RECEPTACLE WITH GFI AT BREAKER. NEMA 5-20R. REFER TO PANEL SCHEDULES.
	WEATHERPROOF AND GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. COVER BASED ON INTERMATIC #WP1020 (CLEAR).
	JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE.
	WALL MOUNTED JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE. BOX SHALL BE RECESSED IN WALL WITH NOT EXPOSED CONDUIT, UNLESS NOTED OTHERWISE.
	SPECIAL RECEPTACLE; SEE PLANS FOR TYPE.
	TV POWER AND DATA CONNECTION, SEE DETAIL. MOUNT 72" AFF UNLESS NOTED OTHERWISE.
	SIX GANG FLUSH MOUNTED FLOOR BOX WITH ACCESSIBLE COVER FOR POWER AND COMMUNICATIONS. PROVIDE FIVE NEMA 5-20R DUPLEX RECEPTACLES AND ONE COMM. PLATE WITH PROVISION FOR SIX RJ45 CAT6 JACKS. EQUAL TO WIREMOLD RB66-OG-8CT. ARCHITECT TO SELECT FINISH. STUB FROM BOX ONE CONCEALED 1/4" ROUTED TO WHICHEVER IS NEAREST BB, J-HOOKS, OR CABLE TRAY. EQUALS: HUBBELL, THOMAS & BETTS, OR SPECIFICATION EQUAL.

LIGHTING	
	LED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
	LED STRIP FIXTURE.
	LED LIGHTING FIXTURE.
	WALL MOUNTED LED LIGHTING FIXTURE.
	LED DOWNLIGHT WITH AN EMERGENCY BATTERY DRIVER, BASED ON 1100 LUMEN INVERTER (SEE SCHEDULE FOR FIXTURE LUMEN MAXIMUM.)
	EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. 90 MIN BATTERY BACKUP. SEE LIGHTING FIXTURE SCHEDULE.
	EXTERIOR EMERGENCY FIXTURE WITH EMERGENCY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
	EMERGENCY BUGEYE FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
	EMERGENCY BUGEYE FIXTURE/EXIT SIGN COMBO FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
	SINGLE POLE SWITCH. 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	THREE WAY SWITCH. 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	INDICATES BI-LEVEL SWITCHING/DIMMING. SWITCHES DIM FIXTURES 100/50/0. COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	WALLBOX OCCUPANCY SWITCH. PIR TECHNOLOGY, AUTO-ON, 120/277V RATED. COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.



NO SCALE
③ MOUNTING HEIGHTS OF DEVICES - ELEVATION

LOW VOLTAGE (PATHWAYS ONLY)	
	TELE/DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
	TELE/DATA OUTLET. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
	ABOVE CEILING, STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS LOW VOLTAGE CABLING. 4" SQUARE BOX WITH A TWO-GANG OPENING. STUB 1" EC FROM BOX TO J-HOOKS OR CABLETRAY ABOVE ACCESSIBLE CEILING. PROVIDE CABLING, TERMINATIONS, AND FACEPLATE PER SPECIFICATIONS.
FIRE ALARM	
	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR
	FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE BOX AS REQUIRED PER MANUFACTURER RECOMMENDATION. PROVIDE 1" C CONDUIT FOR CABLING.
	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.
	CEILING MOUNTED SMOKE DETECTOR. FA VENDOR PROVIDED.
	CEILING MOUNTED HEAT DETECTOR.
	CEILING MOUNTED CARBON MONOXIDE DETECTOR.
	DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, INSTALLATION OF DETECTOR, AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
	DETECTOR WITH SOUNDER BASE (SB).
	MULTI-CRITERIA DETECTOR (SMOKE/CO/HEAT).
	ADA COMPLIANT WALL MOUNT FIRE ALARM HORN WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
	ADA COMPLIANT WALL MOUNT FIRE ALARM STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM HORN STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
ELECTRICAL EQUIPMENT	
	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
	PLYWOOD TELEPHONE BACKBOARD WITH TELECOMMUNICATIONS GROUNDING BAR. REFER TO TELECOMMUNICATIONS RISER DIAGRAM FOR DETAILS.
	PANELBOARD. REFER TO POWER RISER DIAGRAM AND PANEL SCHEDULES FOR DETAILS. TOP OF PANEL AT 6'-6" AFF.
	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.

2018 NORTH CAROLINA ENERGY CONSERVATION CODE	
COMMERCIAL ENERGY EFFICIENCY - ELECTRICAL SUMMARY	
C401 METHOD OF COMPLIANCE <input checked="" type="checkbox"/> 2018 NCECC CHAPTER 4 <input type="checkbox"/> N/A BASED ON PROJECT SCOPE <input type="checkbox"/> NC SPECIFIC COMCHECK PROVIDED <input type="checkbox"/> ASHRAE 90.1-2013	
C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS <input type="checkbox"/> C406.1.1 EFFICIENT MECH EQUIPMENT <input checked="" type="checkbox"/> C406.1.2 REDUCED LTG DENSITY <input type="checkbox"/> C406.1.3 ENHANCED DIGITAL LTG CNTLS <input type="checkbox"/> NOT APPLICABLE BASED ON PROJECT SCOPE <input type="checkbox"/> C406.1.4 ON-SITE RENEWABLE ENERGY <input type="checkbox"/> C406.1.5 DEDICATED OA SYSTEM <input type="checkbox"/> C406.1.6 HI-EFF SERVICE WTR HTG	
C408 - SYSTEM COMMISSIONING: <input type="checkbox"/> BUILDING IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408. <input checked="" type="checkbox"/> BUILDING IS GREATER THAN 10,000 SQUARE FEET AND REQUIRES SYSTEM COMMISSIONING PER SECTION C408.	
C405.2 - LIGHTING CONTROLS (MANDATORY REQUIREMENTS): <input checked="" type="checkbox"/> LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION C405.2, EXCEPT WHERE EXEMPT. <input type="checkbox"/> NOT APPLICABLE	
C405.3 - EXIT SIGNS (MANDATORY REQUIREMENTS): <input checked="" type="checkbox"/> INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE. <input type="checkbox"/> NOT APPLICABLE	
C405.4 - INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT): <input type="checkbox"/> NOT APPLICABLE PER 2018 NCECC C503.1, EXCEPTION 2.G. C405.4.1 - TOTAL <u>CONNECTED</u> INTERIOR LIGHTING POWER: 12,410 WATTS SPECIFIED 25 % REDUCTION OF SPECIFIED VS. ALLOWED (APPLICABLE IF C406.1.2 IS SELECTED) C405.4.2 - TOTAL <u>ALLOWABLE</u> INTERIOR LIGHTING POWER: METHOD OF COMPLIANCE: <input checked="" type="checkbox"/> BUILDING AREA METHOD <input type="checkbox"/> SPACE-BY-SPACE METHOD 16,468 WATTS ALLOWED	
C405.5.1 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT): <input type="checkbox"/> NOT APPLICABLE TOTAL <u>CONNECTED</u> EXTERIOR LIGHTING POWER: 970 WATTS SPECIFIED TOTAL <u>ALLOWABLE</u> EXTERIOR LIGHTING POWER: 2,110 WATTS ALLOWED	
C405.6 - ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS): <input type="checkbox"/> SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP R-2 BUILDINGS. <input checked="" type="checkbox"/> NOT APPLICABLE	
C405.7 - ELECTRICAL TRANSFORMERS (MANDATORY REQUIREMENTS): <input type="checkbox"/> ELECTRICAL TRANSFORMERS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.7, EXCEPT WHERE EXEMPT. <input checked="" type="checkbox"/> NOT APPLICABLE	
C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS): <input checked="" type="checkbox"/> ELECTRICAL MOTORS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.8, EXCEPT WHERE EXEMPT. <input type="checkbox"/> NOT APPLICABLE	

ABBREVIATIONS	
+42"	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO MOUNTED. SEE PLANS.
3R	NEMA 3R
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLER UNIT
C.B.	CIRCUIT BREAKER
EC	EMPTY CONDUIT WITH PULL CORD
E.C.	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
FACP	FIRE ALARM CONTROL PANEL
FPN	FUSE PER NAMEPLATE
LC	LIGHTING CONTACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
U.G.	UNDERGROUND
WP	WEATHERPROOF
S.E.	SERVICE ENTRANCE
EM	EMERGENCY FIXTURE WITH BATTERY OR GEN. BACK-UP
ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
RM	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
Isc	RMS SYMMETRICAL SHORT CIRCUIT CURRENT
AIC	AMPERE INTERRUPTING CAPACITY (EQUIPMENT RATING)
EMERGENCY RESPONDER RADIO COVERAGE	
THE ELECTRICAL CONTRACTOR SHALL INCLUDE A SEPARATE LINE ITEM IN HIS BID PROVISIONS FOR THE EMERGENCY RESPONDER RADIO COVERAGE AS REQUIRED PER SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE (ERRC) FOR NEW BUILDINGS. BUILDING SHALL BE TESTED UPON COMPLETION OF CONSTRUCTION AND ADDITIONAL EQUIPMENT PROVIDED AS NEEDED. ALL BUILDINGS SHALL HAVE RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED UPON EXISTING COVERAGE LEVELS FTO THE PUBLIC SAFETY COMMUNICATIONS SYSTEM OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. THIS SECTION SHALL NOT REQUIRE IMPROVEMENT OF THE EXISTING PUBLIC SAFETY COMMUNICATION SYSTEM.	

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Luis Graef, President

PROJECT:
The Orchards at Naples Road
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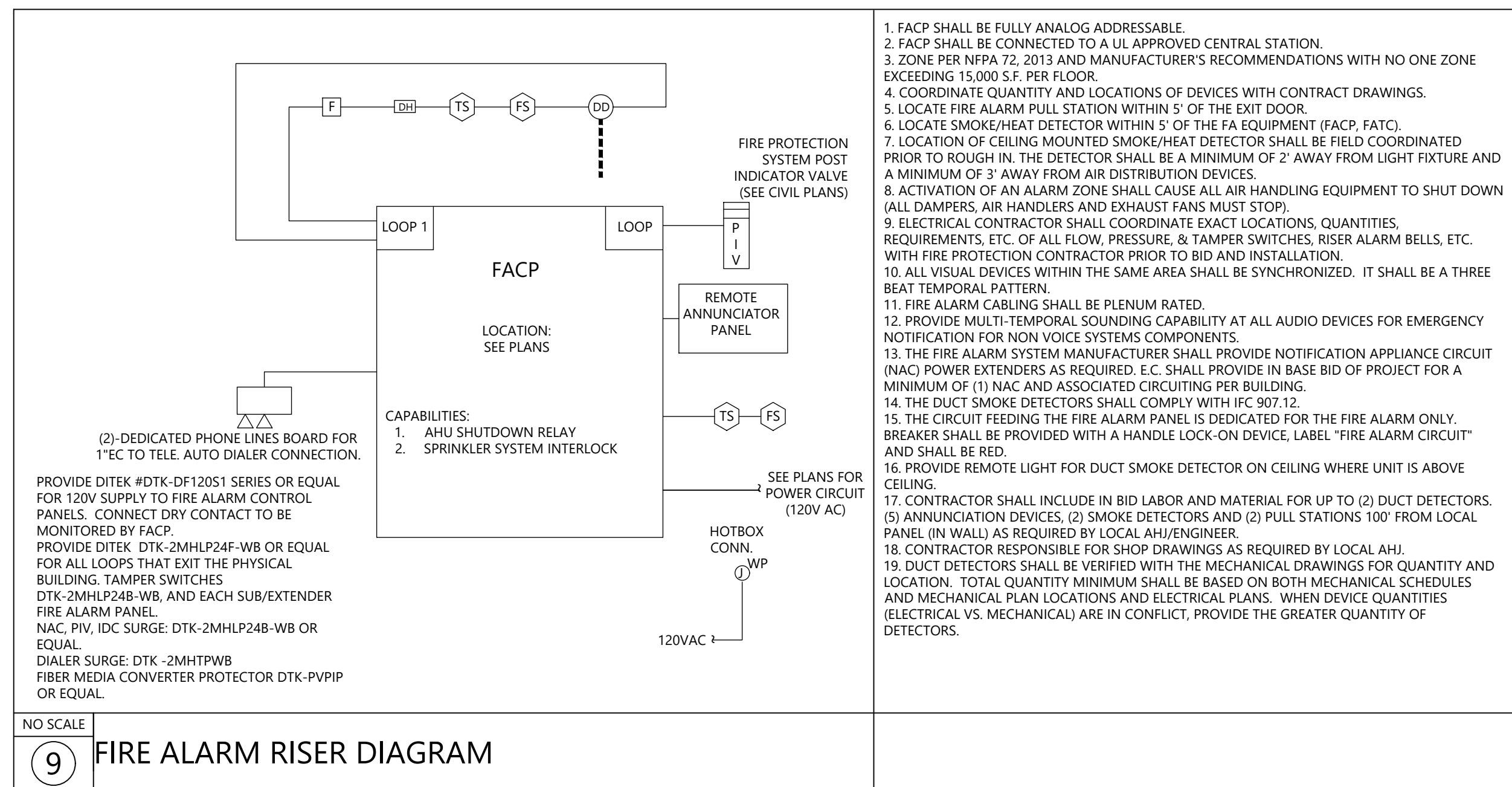
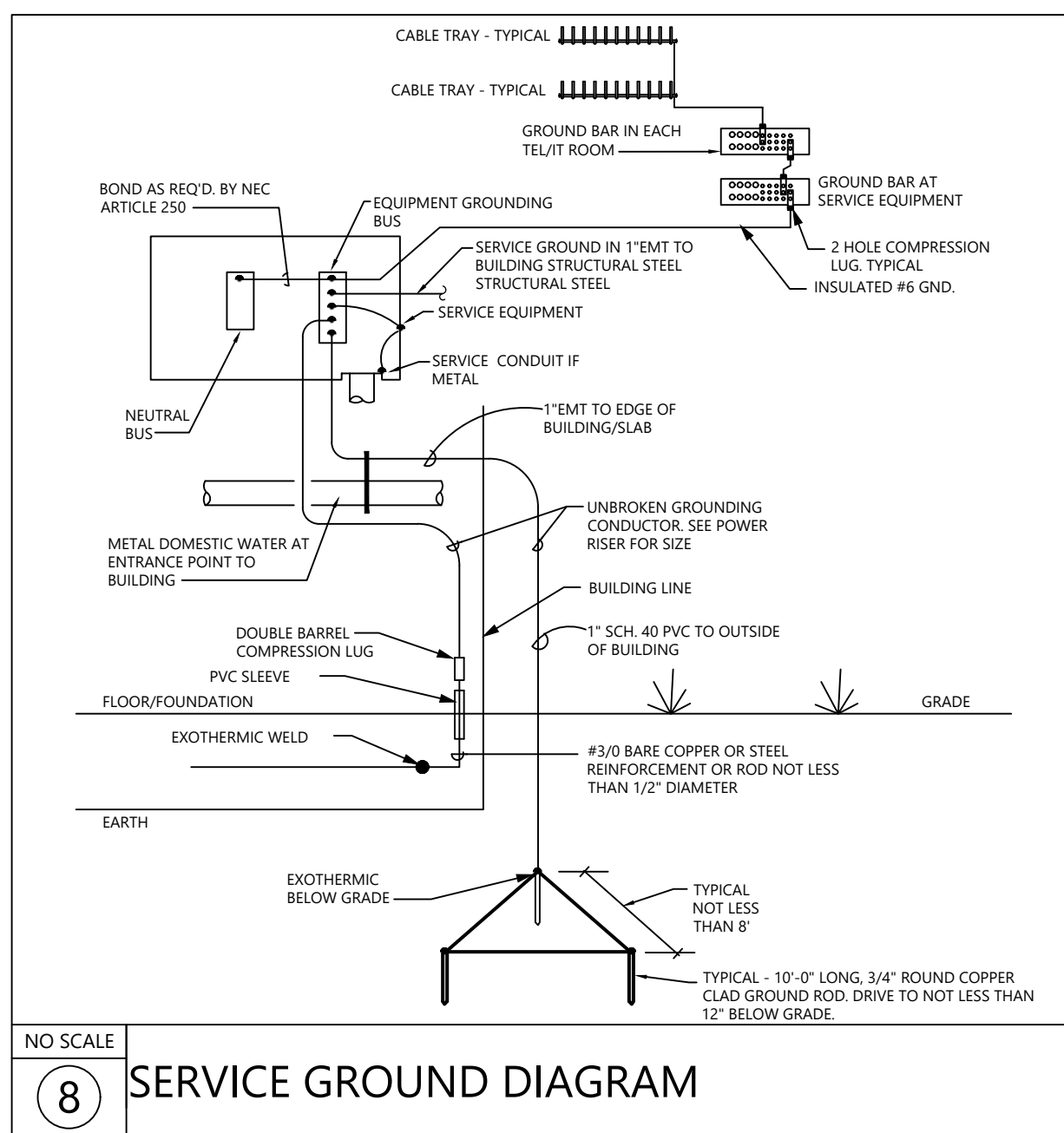
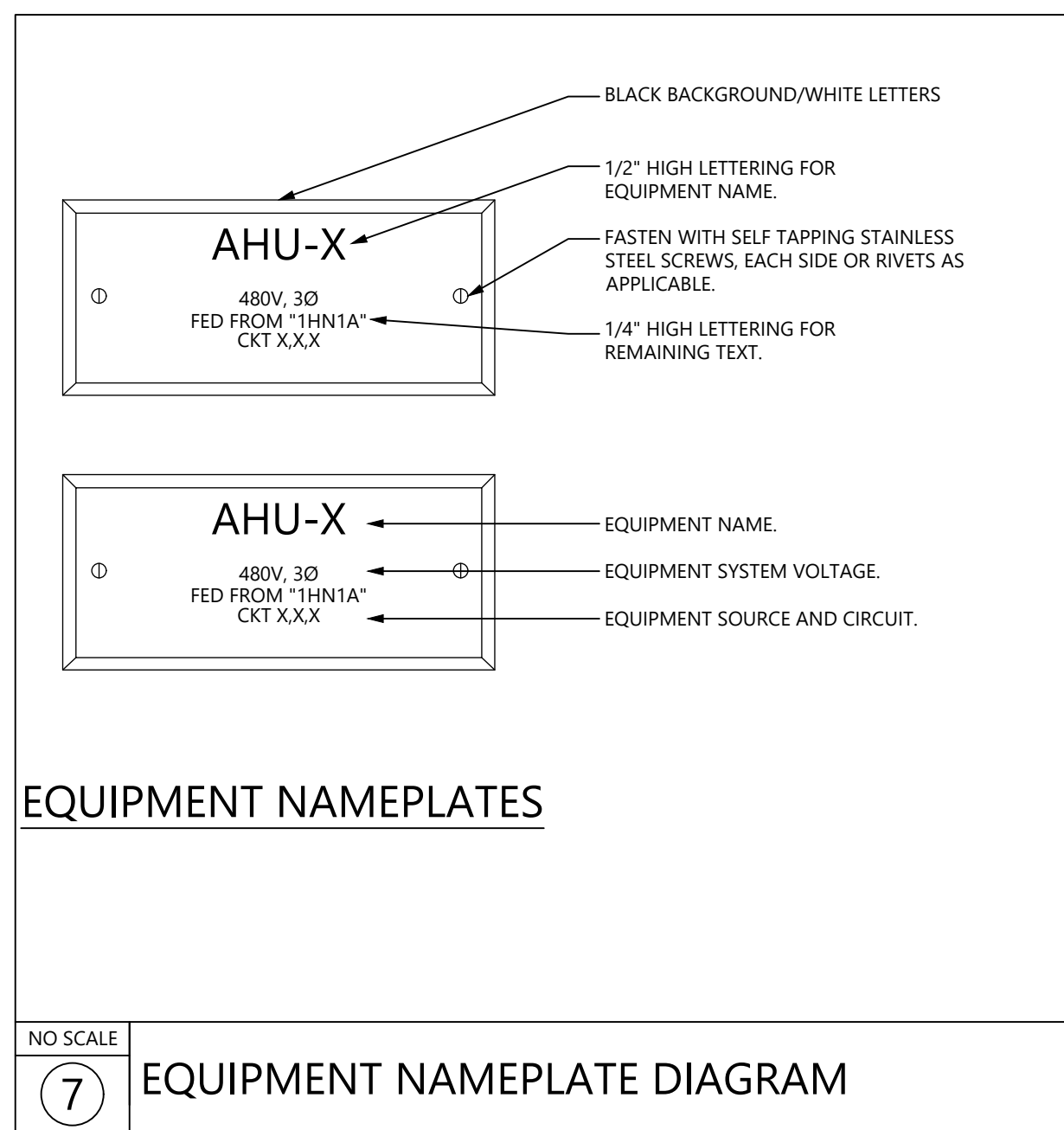
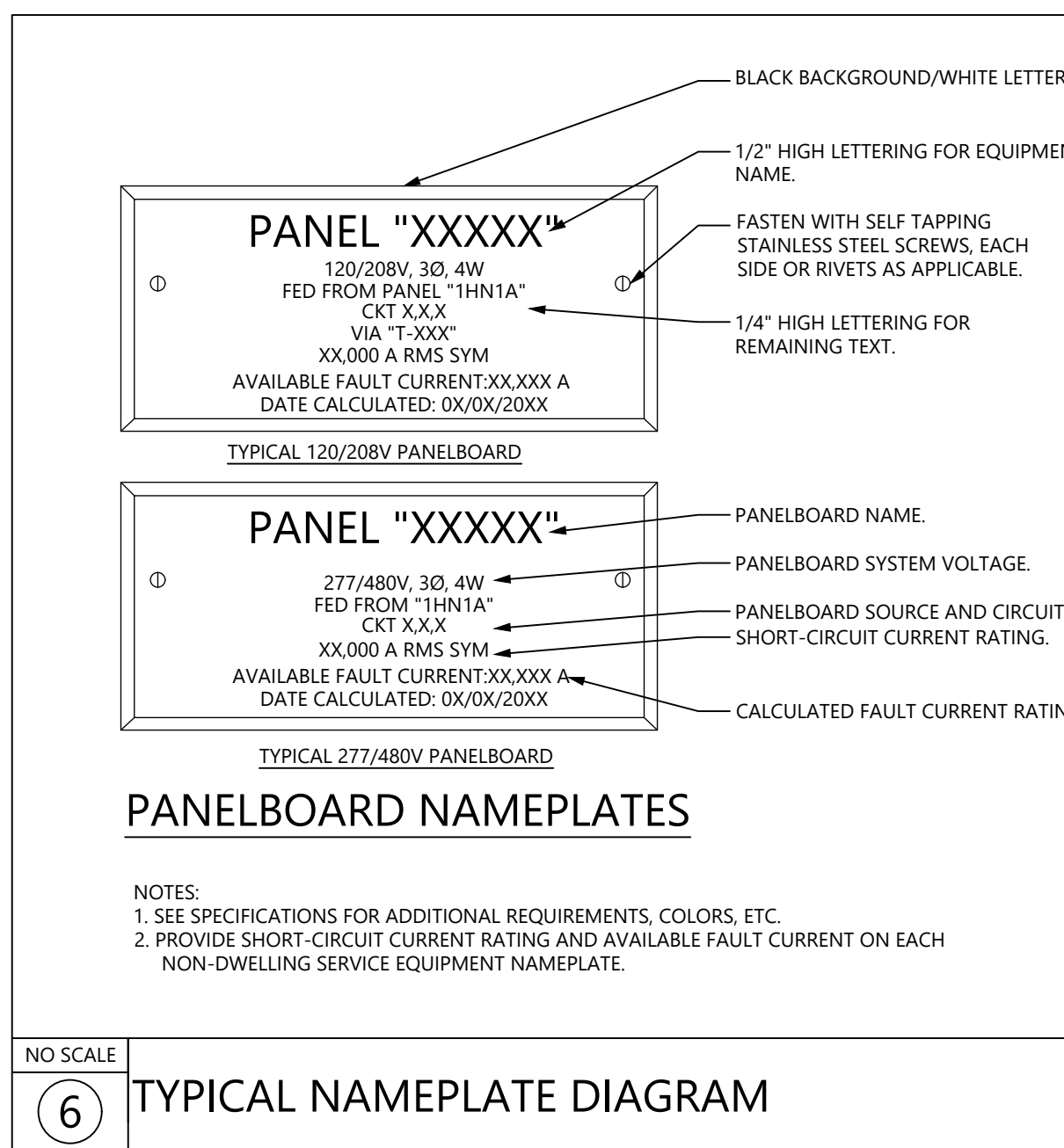
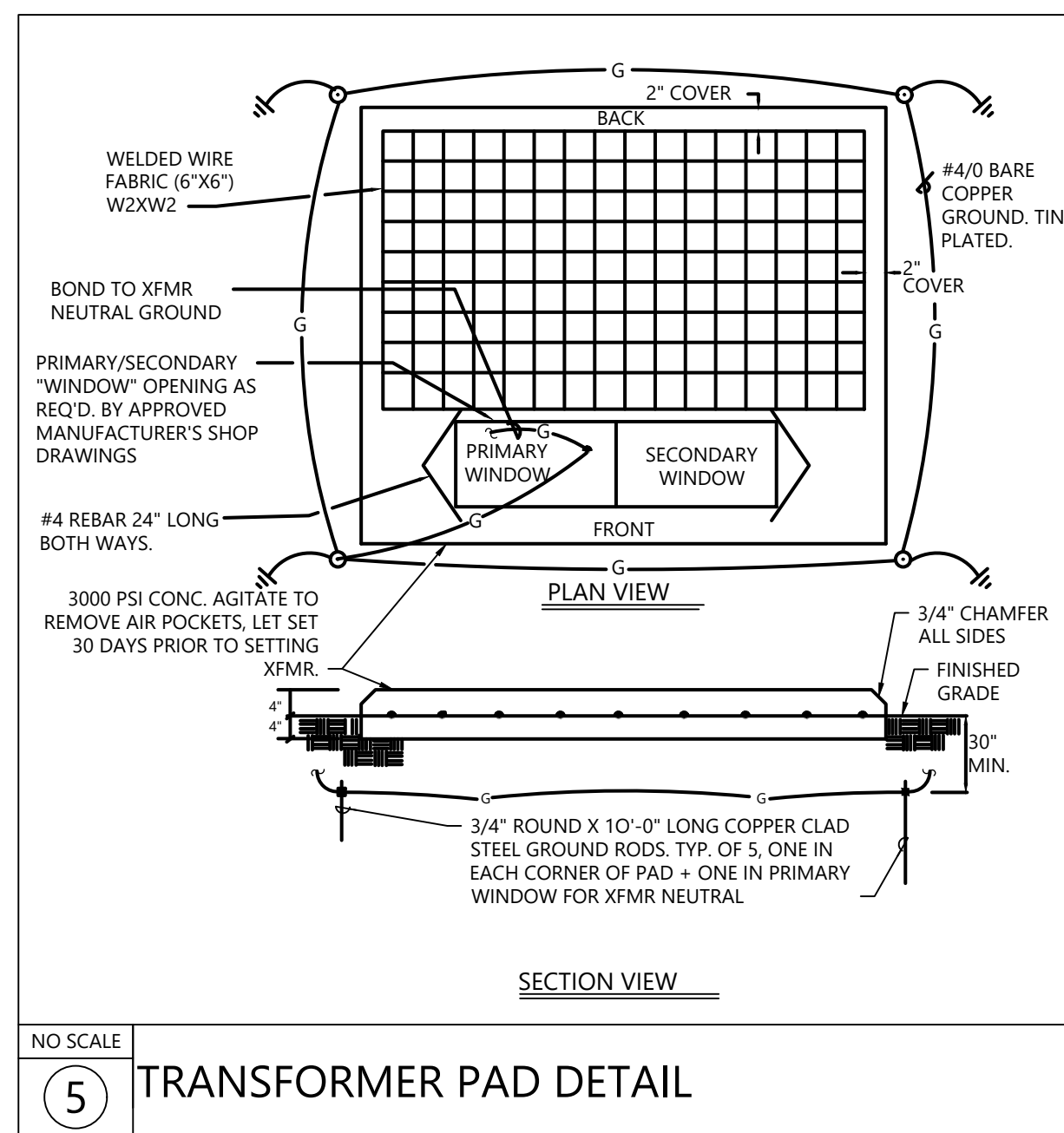
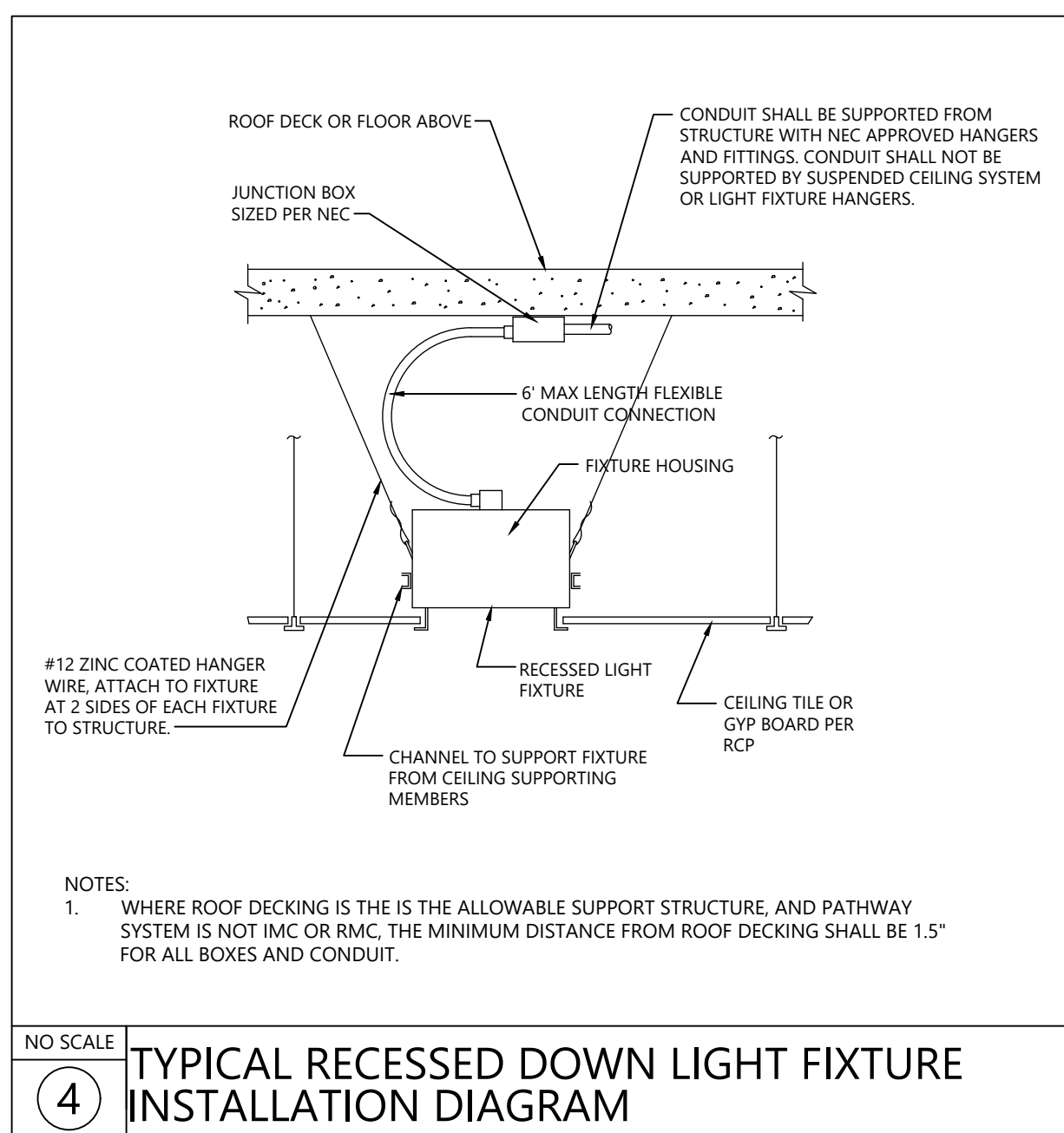
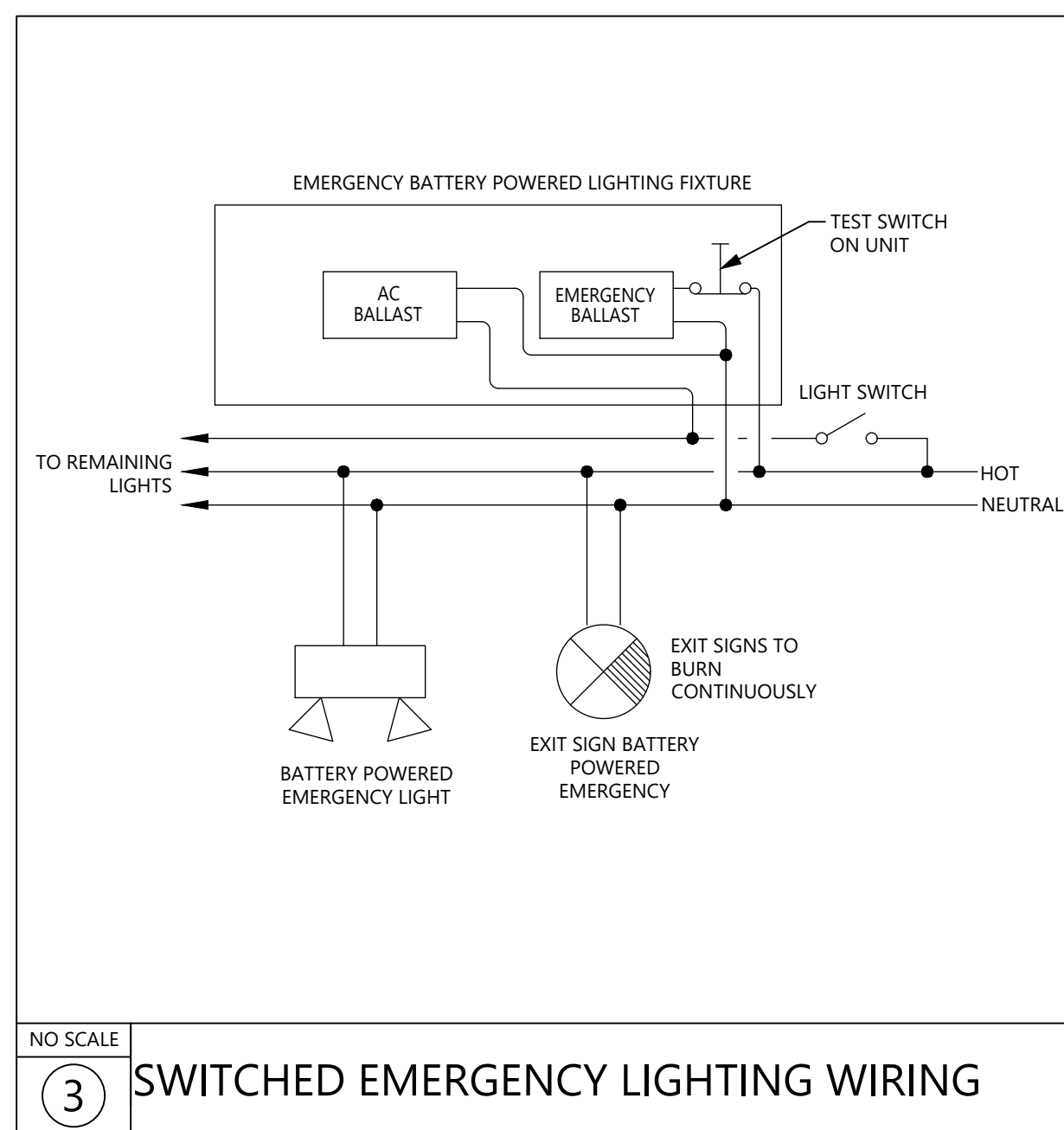
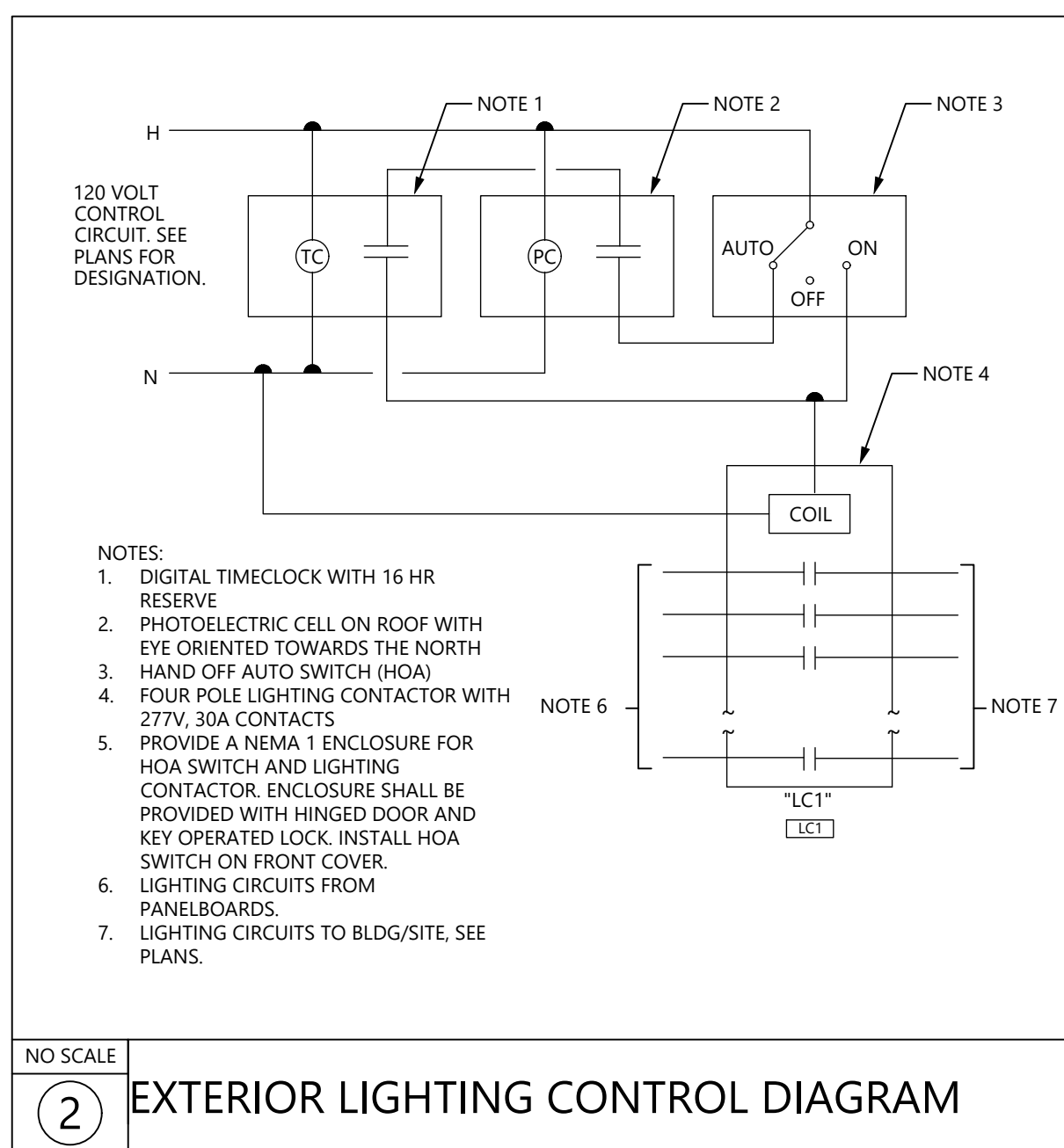
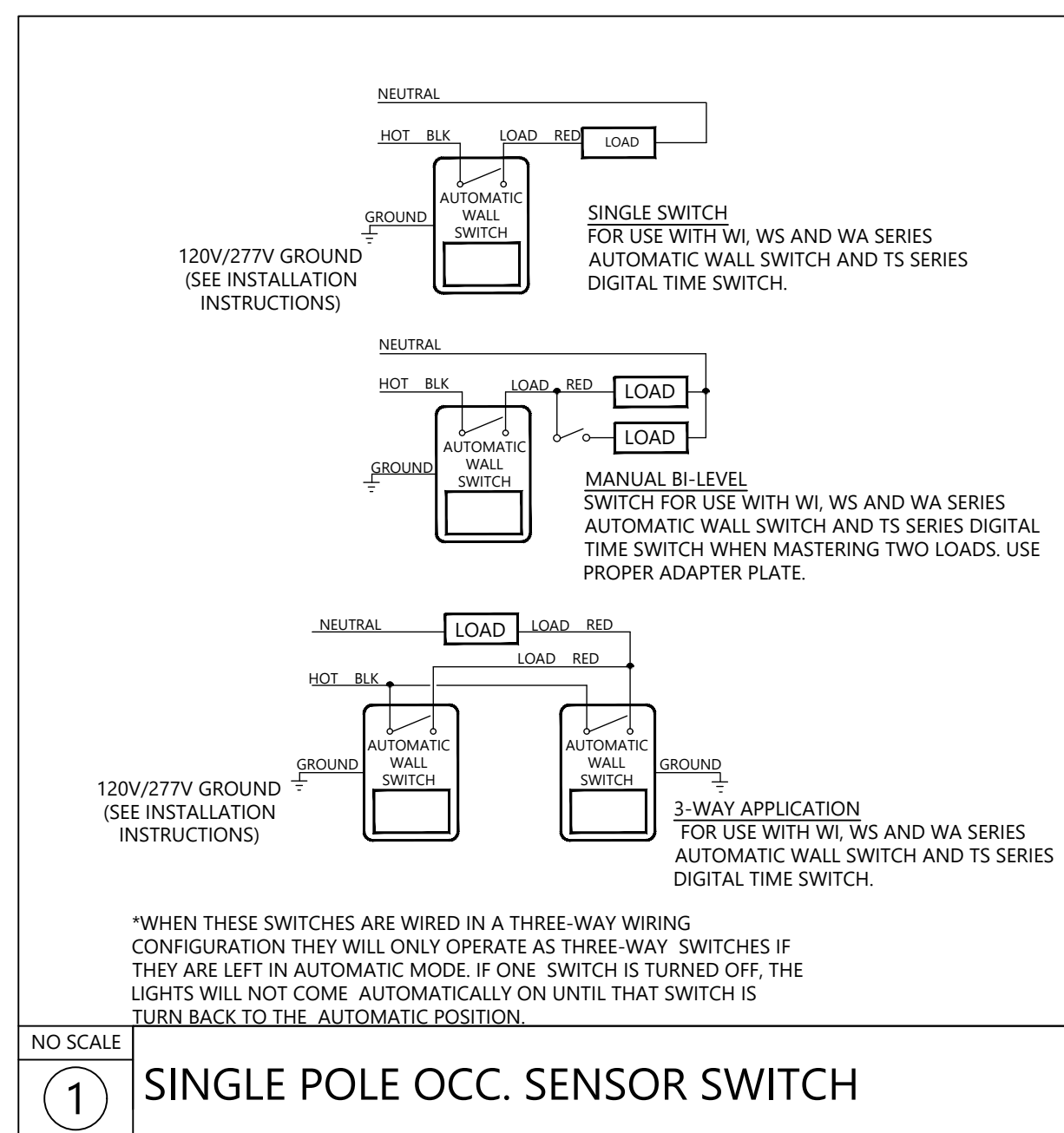
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DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
ELECTRICAL COVER SHEET

SHEET #:
E-01

WILDE # 24-125

[illegible]

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DWG DESCRIPTION:

ELECTRICAL DETAILS

SHEET #:
E-03

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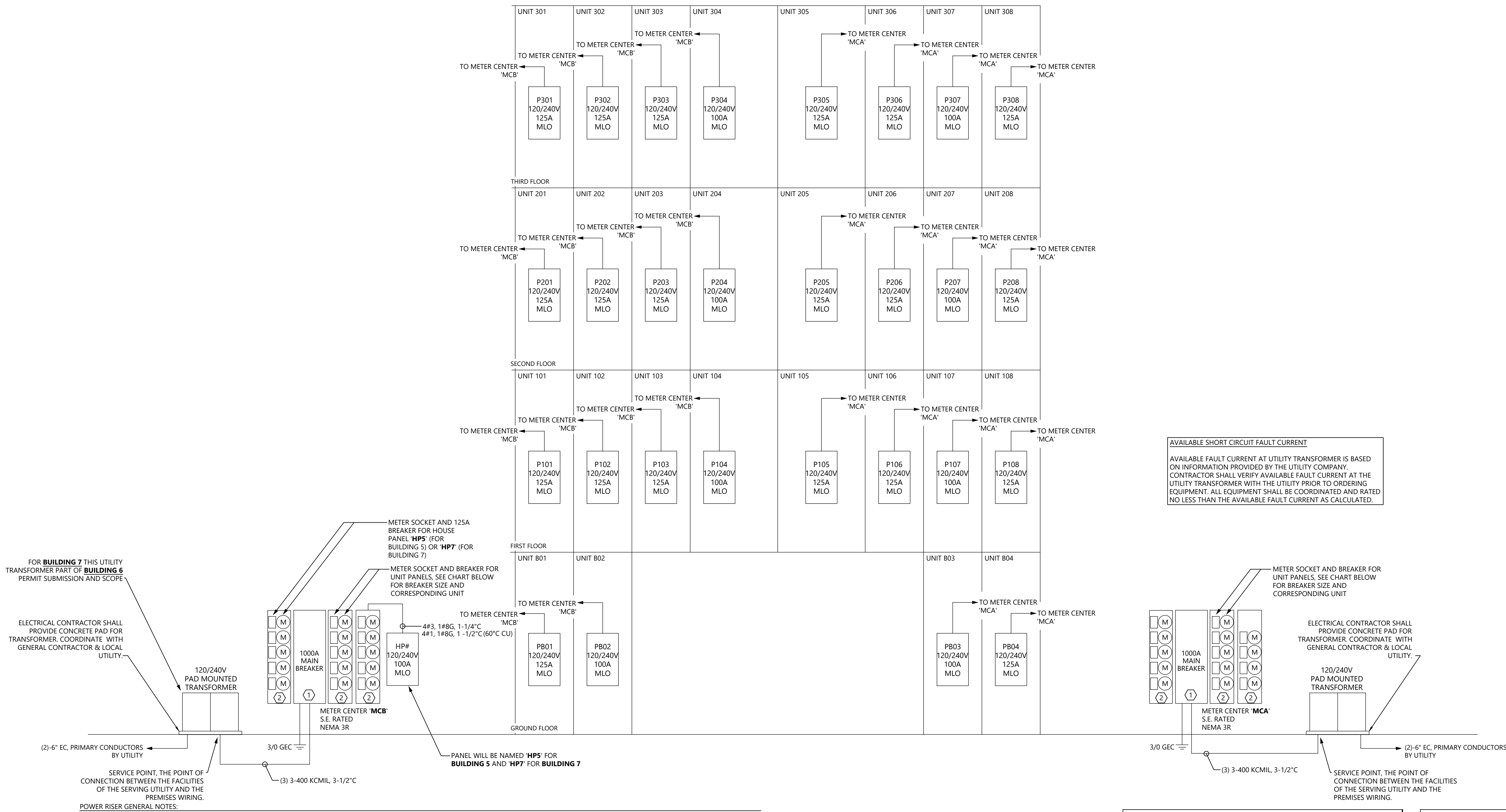
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DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
POWER RISER DIAGRAM -
BUILDINGS 5 & 7

SHEET #:
E-04

WILDE # 24-125



AVAILABLE SHORT CIRCUIT FAULT CURRENT
AVAILABLE FAULT CURRENT AT UTILITY TRANSFORMER IS BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANY. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT AT THE UTILITY TRANSFORMER WITH THE UTILITY PRIOR TO ORDERING EQUIPMENT. ALL EQUIPMENT SHALL BE COORDINATED AND RATED NO LESS THAN THE AVAILABLE FAULT CURRENT AS CALCULATED.

- POWER RISER GENERAL NOTES:**
- ALL FEES ASSOCIATED WITH UTILITY COMPANY COORDINATION, INCLUDING PURCHASE/LEASE OF UTILITY TRANSFORMER, TRANSFORMER PRIMARY FEES, PAD, AND ALL ADMINISTRATIVE FEES SHALL BE INCLUDED AS PART OF THE E.C. CONTRACT.
 - RISER LAYOUT SHOWN IS DIAGRAMMATIC IN NATURE ONLY AND DOES NOT REPRESENT ACTUAL INSTALL LAYOUT. E.C. SHALL COORDINATE ALL EQUIPMENT LAYOUTS, CONDUIT/FEEDER ROUTINGS, ETC. LAYOUT SHOWN IN THIS RISER SHALL NOT REPRESENT THE ACTUAL INSTALL OF ANY EQUIPMENT SHOWN.
 - POWER RISER SHOWN TYPICAL FOR BUILDINGS 5 AND 7
 - TABLES SHOWN ON THIS SHEET ARE TYPICAL FOR BUILDINGS 5 AND 7
 - FEEDERS SHOWN BASED ON COPPER. ALUMINUM SHALL BE ACCEPTED BY ENGINEER WITH WRITTEN APPROVAL BY OWNER.

KEYED NOTES:

- SERVICE ENTRANCE, NEMA 3R LISTED CIRCUIT BREAKER WITH INTEGRAL SURGE PROTECTION, 120/240V 1-PHASE, AMPERAGE AS SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO LIMIT THE MAXIMUM AVAILABLE FAULT DUTY FOR ALL 200A AND 400A SELF CONTAINED SERVICE TO A MAGNITUDE NOT EXCEEDING 22,000 AMPS (22 KA) SYMMETRICAL. VERIFICATION OF THE APPROPRIATE TIME CURRENT CHARACTERISTIC (TCC) CURVE SETTINGS SHALL BE PROVIDED.
- NEMA 3R METER CENTER, 225A MAXIMUM CB, 120/240V 1-PHASE. COORDINATE WITH UTILITY PRIOR TO ORDERING NUMBER OF METER SOCKETS AS SHOWN. COORDINATE SIZE OF METER UNITS AND BREAKER WITH PROPER LUGS FOR CONNECTIONS.

1 POWER RISER DIAGRAM - BUILDINGS 5 & 7 (28-UNIT BLDG)

NOT TO SCALE

DEMAND LOADS: METER CENTER 'MCA'				
	NUMBER OF UNITS	UNIT KVA	TOTAL KVA	
2 BEDROOM UNIT	8	40.92	327.37	
1 BEDROOM UNIT	4	38.11	152.45	
3 BEDROOM UNIT	2	42.07	84.14	
TOTAL # OF UNITS		14		
		TOTAL:	564.0 KVA	
WITH DEMAND FACTOR (PER NEC 220.84)		40%	225.6 KVA	
		TOTAL:	225.6 KVA	
		VOLTAGE OF SERVICE:	240 V	
		SERVICE PHASE:	1 PH	
		TOTAL AMPACITY:	939.9 A	

DEMAND LOADS: METER CENTER 'MCB'				
	NUMBER OF UNITS	UNIT KVA	TOTAL KVA	
2 BEDROOM UNIT	8	40.92	327.37	
1 BEDROOM UNIT	4	38.11	152.45	
3 BEDROOM UNIT	2	42.07	84.14	
TOTAL # OF UNITS		14		
		TOTAL:	564.0 KVA	
WITH DEMAND FACTOR (PER NEC 220.84)		40%	225.6 KVA	
		HOUSE PANEL:	6.7 KVA	
		TOTAL:	232.3 KVA	
		VOLTAGE OF SERVICE:	240 V	
		SERVICE PHASE:	1 PH	
		TOTAL AMPACITY:	967.8 A	

RESIDENTIAL FEEDER SIZING TABLE, COPPER CONDUCTORS (240V, 1-PHASE, 3-WIRE)						
SERVICE RATING (AMPS)	MAXIMUM DISTANCE					
	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 250'	251' - 275'
100	3#3, 1#8G, 1" C	3#2, 1#6G, 1-1/4" C	3#1, 1#4G, 1-1/4" C	3#1/0, 1#4G, 1-1/2" C	3#1/0, 1#4G, 1-1/2" C	3#2/0, 1#3G, 1-1/2" C
110	3#2, 1#6G, 1-1/4" C	3#1, 1#4G, 1-1/4" C	3#1/0, 1#3G, 1-1/2" C	3#2/0, 1#2G, 1-1/2" C	3#3/0, 1#3G, 2" C	3#4/0, 1#3G, 2" C
125	3#1, 1#6G, 1-1/4" C	3#1/0, 1#4G, 1-1/2" C	3#2/0, 1#4G, 1-1/2" C	3#3/0, 1#4G, 2" C	3#4/0, 1#3G, 2" C	3#5/0, 1#3G, 2" C
150	3#1/0, 1#6G, 1-1/2" C	3#2/0, 1#4G, 1-1/2" C	3#3/0, 1#4G, 2" C	3#4/0, 1#4G, 2" C	3-250, 1#3G, 2" C	3-300, 1#2G, 2-1/2" C
175	3#2/0, 1#6G, 1-1/2" C	3#3/0, 1#4G, 2" C	3#4/0, 1#4G, 2" C	3-250, 1#4G, 2" C	3-300, 1#3G, 2-1/2" C	3-350, 1#2G, 2-1/2" C
200	3#3/0, 1#6G, 2" C	3#4/0, 1#4G, 2" C	3-250, 1#4G, 2" C	3-300, 1#3G, 2-1/2" C	3-350, 1#2G, 2-1/2" C	3-400, 1#2G, 2-1/2" C
NOTE: 1. THIS TABLE SHALL TAKE PRECEDENCE OVER ANY FEEDERS LISTED IN PANEL SCHEDULES, RISERS AND/OR PLANS. VOLTAGE DROP IS A FUNCTION OF DISTANCE, WHICH IS DETERMINED BY THE CONTRACTOR'S ROUTING IN THE FIELD DURING CONSTRUCTION. 2. CONSULT ENGINEER FOR FEEDERS GREATER THAN 300' IN LENGTH. 3. CONDUIT SIZING IS BASED ON "THHN", "THWN", "THWN-2" TYPE CONDUCTORS IN EMT CONDUIT. 4. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.						

NEW PANEL: HP5 & HP7 (NOTE #9)																				
VOLTAGE: 120/ 240 PHASE / WIRE: 1φ/ 3W AMPS: 100 AIC: 22,000										MOUNTING: SURFACE MAIN: LUGS ONLY										
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #			CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA									
					L1	L2														
0.90	12	20	REC - GENERAL	1	●		2	LIGHTING - EXTERIOR	20	8	0.50									
0.72	10	20	REC - GENERAL	3		●	4	FACP (NOTE #8)	20	10	1.00									
1.08	8	20	REC - GENERAL	5	●		6	IRRIGATION CONTROLS	20	10	1.00									
1.08	6	20	REC - GENERAL	7		●	8	FIRE ALARM BELL (NOTE #8)	20	10	0.50									
1.08	6	20	REC - GENERAL	9	●		10	LIGHTING CONTACTOR LC1	20	12	0.10									
1.00	12	20	TELECOM CABINET	11		●	12	ECUH-1	20	10	1.00									
		20	SPARE	13	●		14		10	1.00										
		20	SPARE	15		●	16	SPARE	20											
		20	SPARE	17	●		18	SPARE	20											
			SPACE ONLY	19		●	20	SPACE ONLY												
			SPACE ONLY	21	●		22	SPACE ONLY												
			SPACE ONLY	23		●	24	SPACE ONLY												
				25	●		26													
				27		●	28													
				29	●		30													
				31		●	32													
				33	●		34													
				35		●	36													
				37	●		38													
				39		●	40													
				41	●		42													
5.9				SUB TOTALS								5.1								
LOAD (kVA)				Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE													
LIGHTS				0.5	1.25	0.6	CONNECTED													
HEATING				2.0	1.00	2.0	L1= 5.7 kVA	47.2 AMPS												
COOLING				0.0	1.00	0.0	L2= 5.3 kVA	44.2 AMPS												
VENTILATION				0.0	1.00	0.0	DEMAND													
MOTORS				0.0	1.00	0.0														
KITCHEN				0.0	0.65	0.0														
REC. (1st 10kVA)				4.9	1.00	4.9	L1= 5.8 kVA	48.2 AMPS												
REC. (>10kVA)				0.0	0.50	0.0	L2= 5.3 kVA	44.2 AMPS												
WATER HEATER				0.0	1.00	0.0	DEMAND AT 125%													
MISC.				3.6	1.00	3.6								L1= 7.2 kVA	60.3 AMPS					
SPARE				0.0	1.00	0.0								L2= 6.6 kVA	55.2 AMPS					

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.
7. PANEL SHALL BE NEMA 3R RATED.
8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.
9. PANEL SCHEDULE IS TYPICAL FOR BUILDINGS 5 AND 7



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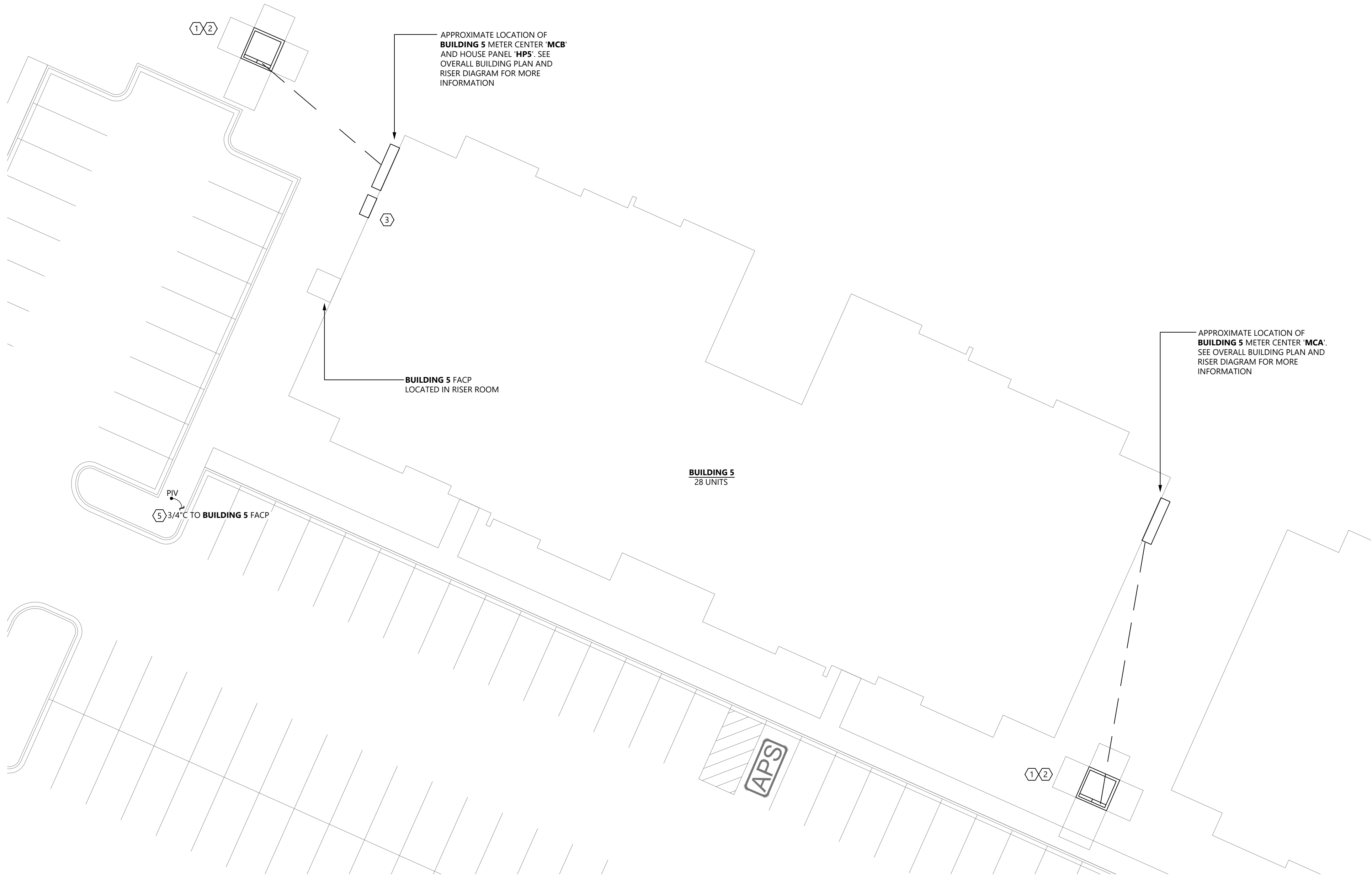
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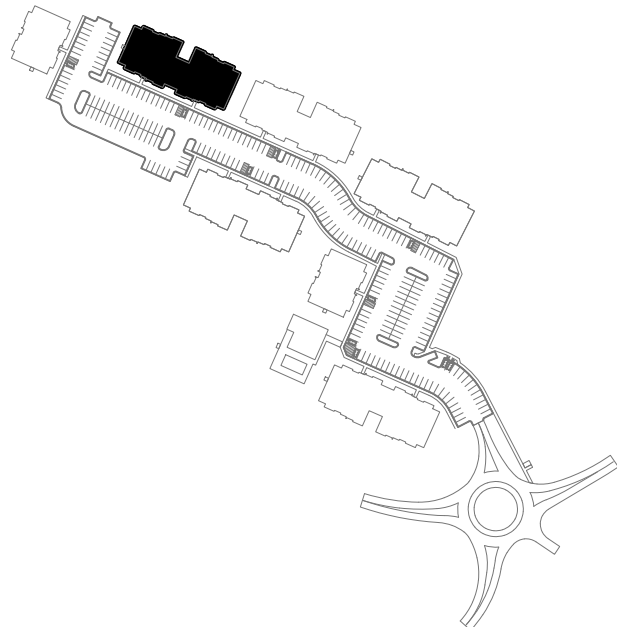
DWG DESCRIPTION:
PANEL SCHEDULE -
HOUSE PANEL

SHEET #:
E-05



1 ELECTRICAL SITE PLAN - BUILDING 5
1/16"=1'-0"

KEY PLAN
(NOT TO SCALE)



- SITE PLAN NOTES:
1. UTILITY TRANSFORMER, COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN.
 2. PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
 3. PROVIDE (2)-4" CONDUIT FROM MAIN TELECOM/INTERNET BOX TO PROPERTY LINE FOR TELEPHONE AND INTERNET SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-4" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
 4. ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36".
 5. POST INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
 6. UTILITY TRANSFORMER PART OF **BUILDING 6** PERMIT SUBMISSION AND SCOPE.



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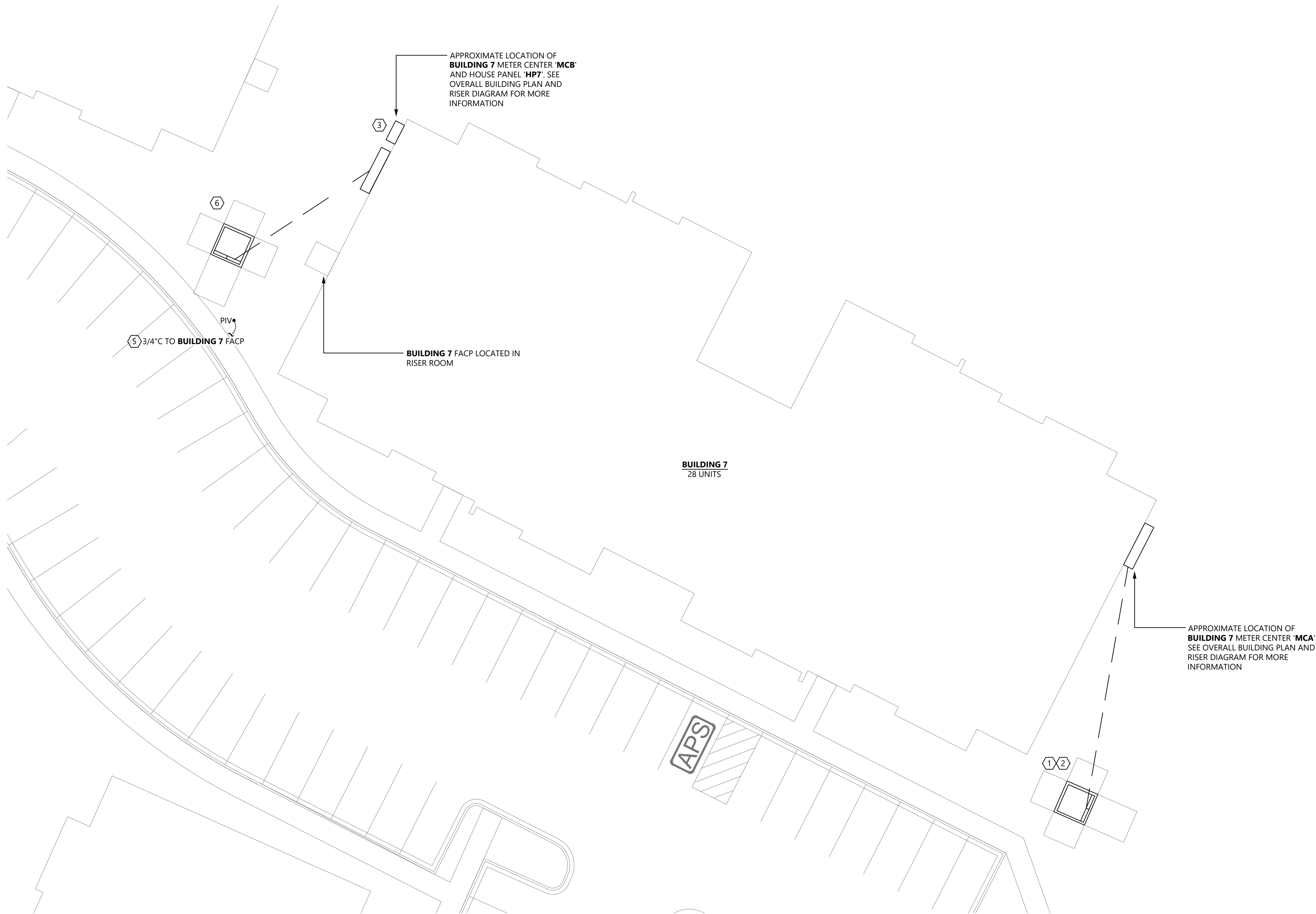
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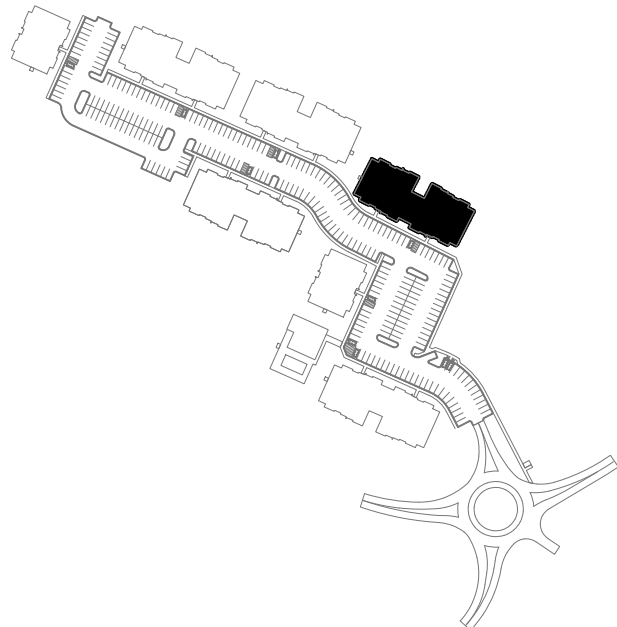
DWG DESCRIPTION:
ELECTRICAL SITE PLAN -
BUILDING 5

SHEET #:
E-10.5



1 ELECTRICAL SITE PLAN - BUILDING 7
1/16"=1'-0"

KEY PLAN
(NOT TO SCALE)



- SITE PLAN NOTES:
1. UTILITY TRANSFORMER, COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN.
 2. PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
 3. PROVIDE (2)-4" CONDUIT FROM MAIN TELECOM/INTERNET BOX TO PROPERTY LINE FOR TELEPHONE AND INTERNET SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-4" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
 4. ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36".
 5. POST INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
 6. UTILITY TRANSFORMER PART OF **BUILDING 6** PERMIT SUBMISSION AND SCOPE.



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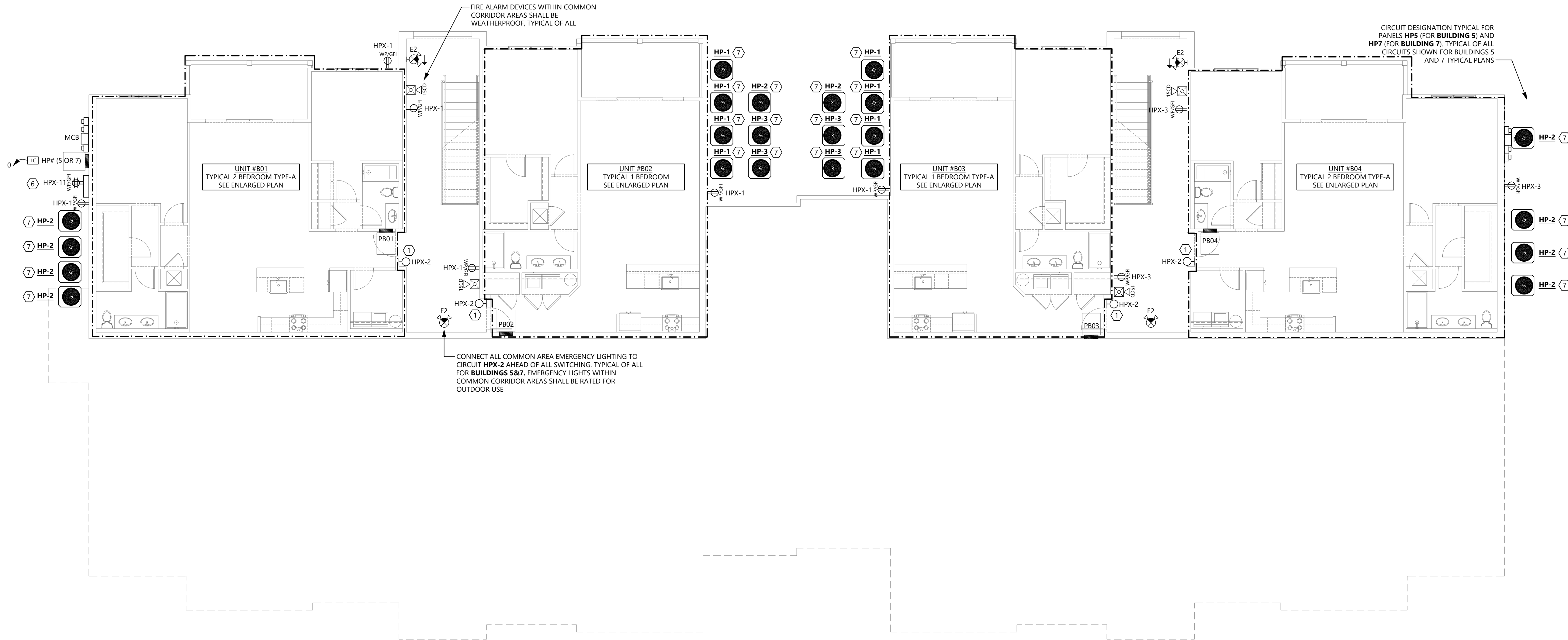
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DWG DESCRIPTION:
ELECTRICAL SITE PLAN -
BUILDING 7

SHEET #:
E-10.7



- GENERAL NOTES:
- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
 - B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
 - C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
 - D. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
 - E. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
 - F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
 - G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
 - H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
 - I. ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
 - J. SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
 - K. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):
- 1. WALL SCONCE (FIXTURE TAG 'B') AT EACH APARTMENT ENTRY DOOR. REFER TO ENLARGED UNIT PLANS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT. ROUTE THROUGH LIGHTING CONTRACTOR FOR ASSOCIATED BUILDING. CONTRACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTRACTOR DETAIL.
 - 2. COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
 - 3. POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - 4. ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - 5. FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - 6. MAIN TELECOM CABINET FOR BUILDING. PROVIDE 36"x36" NEMA 3R CABINET AND (2)-4" C FROM CABINET TO MAIN PROPERTY LINE AND CONNECTION TO UTILITY. PROVIDE WP/GFI QUAD RECEPTACLE WITHIN CABINET. CONNECT TO CIRCUIT SHOWN ON PLANS.
 - 7. COORDINATE WITH M.C. FOR WHICH UNIT EACH HEAT PUMP IS ASSOCIATED WITH. SIZE FEEDERS TO ACCOMMODATE VOLTAGE DROP PER NEC. SEE ENLARGED UNIT PLAN AND PANEL SCHEDULE FOR CIRCUIT DESIGNATION, DISCONNECT SIZE, ETC.

1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - BASEMENT LEVEL
1/8"=1'-0"



PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE

CLIENT:
The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

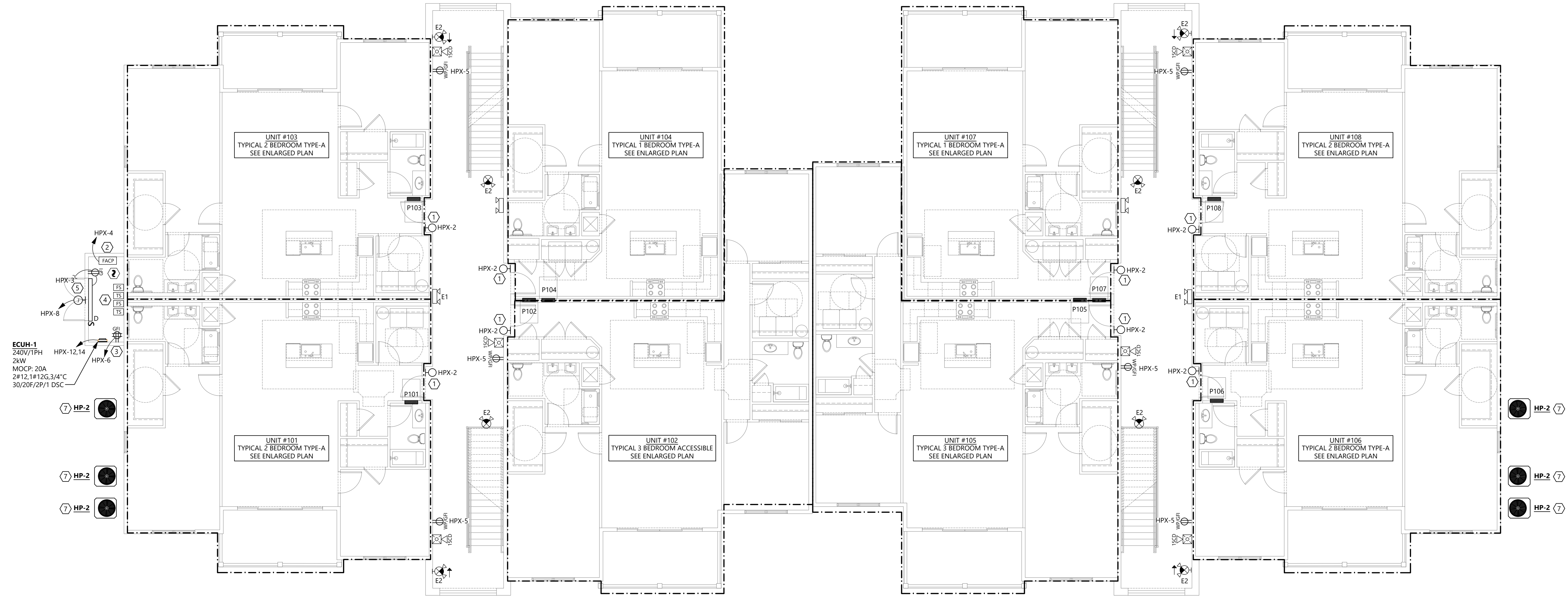
DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - BASEMENT -
BUILDINGS 5 & 7

SHEET #:
E-21

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - OVERALL PLAN													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOC P	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
ECUH-1	ELECTRIC WALL HEATER	240	1	2.00	-	-	20	3#12,1#12G,3/4"C	30	2	20	1	1
NOTES:													
1	COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												

- GENERAL NOTES:
- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
- C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
- D. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
- E. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
- F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
- G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
- H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
- I. ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
- J. SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
- K. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

- (##) KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):
1. WALL SCONCE (FIXTURE TAG 'B') AT EACH APARTMENT ENTRY DOOR. REFER TO ENLARGED UNIT PLANS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT. ROUTE THROUGH LIGHTING CONTRACTOR FOR ASSOCIATED BUILDING. CONTRACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTRACTOR DETAIL.
2. COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
3. POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
5. FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
6. MAIN TELECOM CABINET FOR BUILDING. PROVIDE 36"x36" NEMA 3R CABINET AND (3)-4"C FROM CABINET TO MAIN PROPERTY LINE AND CONNECTION TO UTILITY. PROVIDE WP/GFI QUAD RECEPTACLE WITHIN CABINET. CONNECT TO CIRCUIT SHOWN ON PLANS.
7. COORDINATE WITH M.C. FOR WHICH UNIT EACH HEAT PUMP IS ASSOCIATED WITH. SIZE FEEDERS TO ACCOMMODATE VOLTAGE DROP PER NEC. SEE ENLARGED UNIT PLAN AND PANEL SCHEDULE FOR CIRCUIT DESIGNATION, DISCONNECT SIZE, ETC.



1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - FIRST FLOOR
1/8"=1'-0"



- PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE

CLIENT:

The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

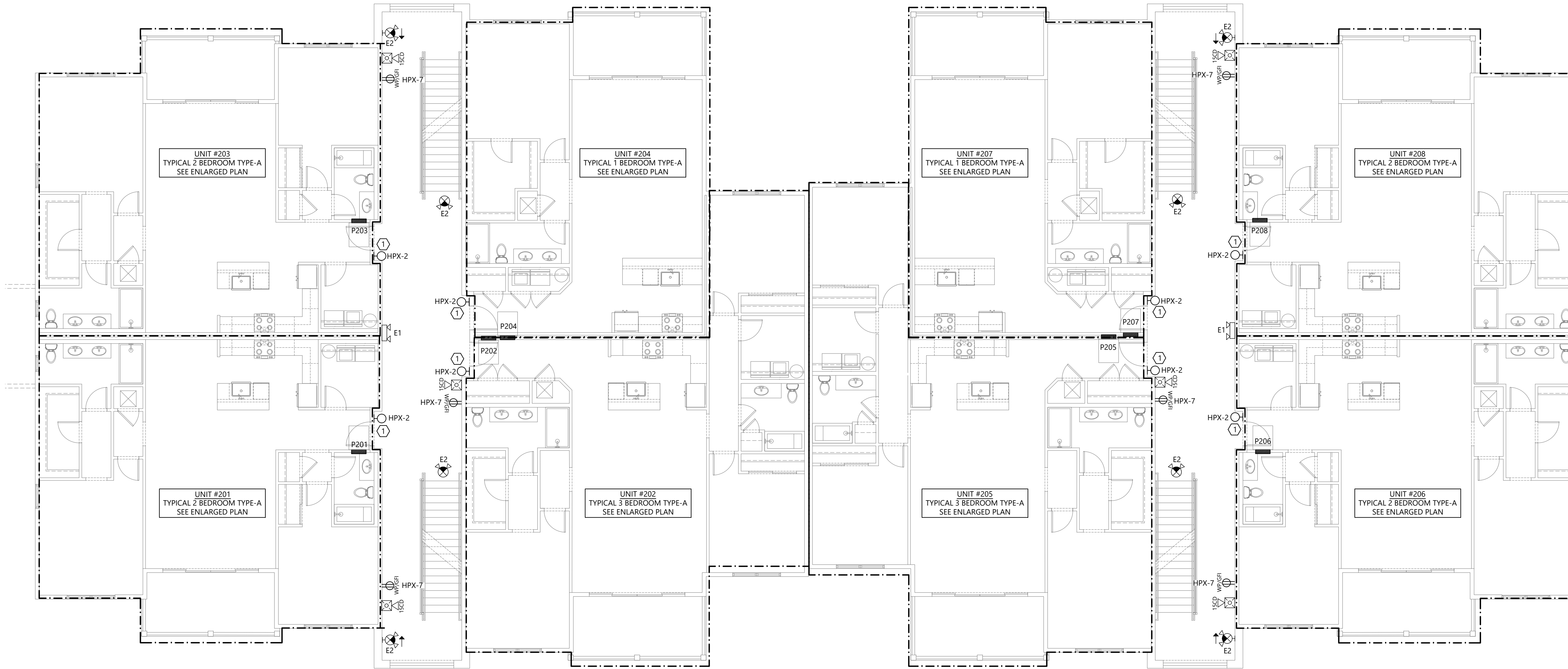
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - FIRST FLOOR -
BUILDINGS 5 & 7

SHEET #:
E-22



1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - SECOND FLOOR
1/8"=1'-0"

- GENERAL NOTES:
- CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
 - ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
 - MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
 - LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
 - PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
 - CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
 - PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
 - COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
 - ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
 - SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
 - COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):
- WALL SCONCE (FIXTURE TAG 'B') AT EACH APARTMENT ENTRY DOOR. REFER TO ENLARGED UNIT PLANS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT. ROUTE THROUGH LIGHTING CONTACTOR FOR ASSOCIATED BUILDING. CONTACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTACTOR DETAIL.
 - COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
 - POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
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 - COORDINATE WITH M.C. FOR WHICH UNIT EACH HEAT PUMP IS ASSOCIATED WITH. SIZE FEEDERS TO ACCOMMODATE VOLTAGE DROP PER NEC. SEE ENLARGED UNIT PLAN AND PANEL SCHEDULE FOR CIRCUIT DESIGNATION, DISCONNECT SIZE, ETC.



PRELIMINARY -
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CLIENT:
The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - SECOND FLOOR -
BUILDINGS 5 & 7

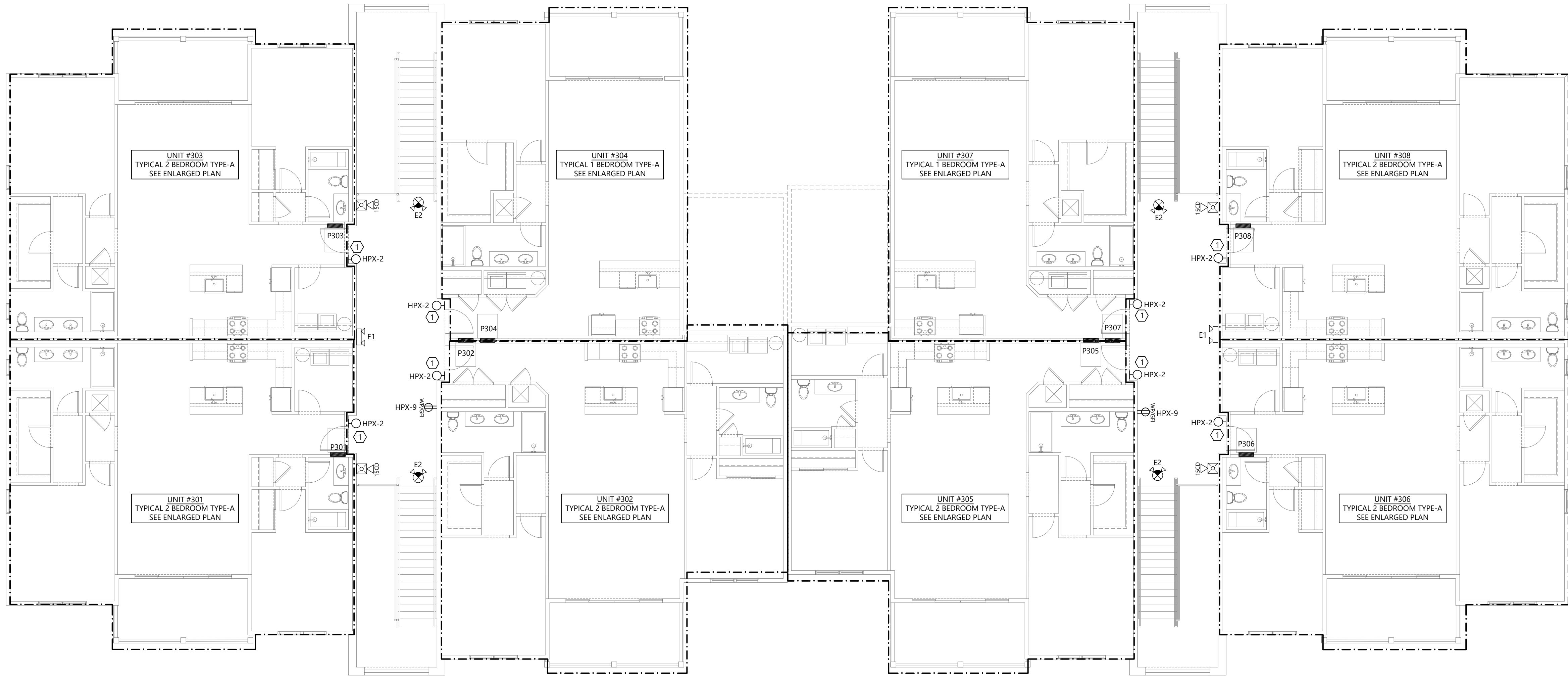
SHEET #:

E-23

WILDE # 24-125

- GENERAL NOTES:
- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
 - B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
 - C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
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 - COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
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1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - THIRD FLOOR
1/8"=1'-0"

PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE

CLIENT:
The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef, President



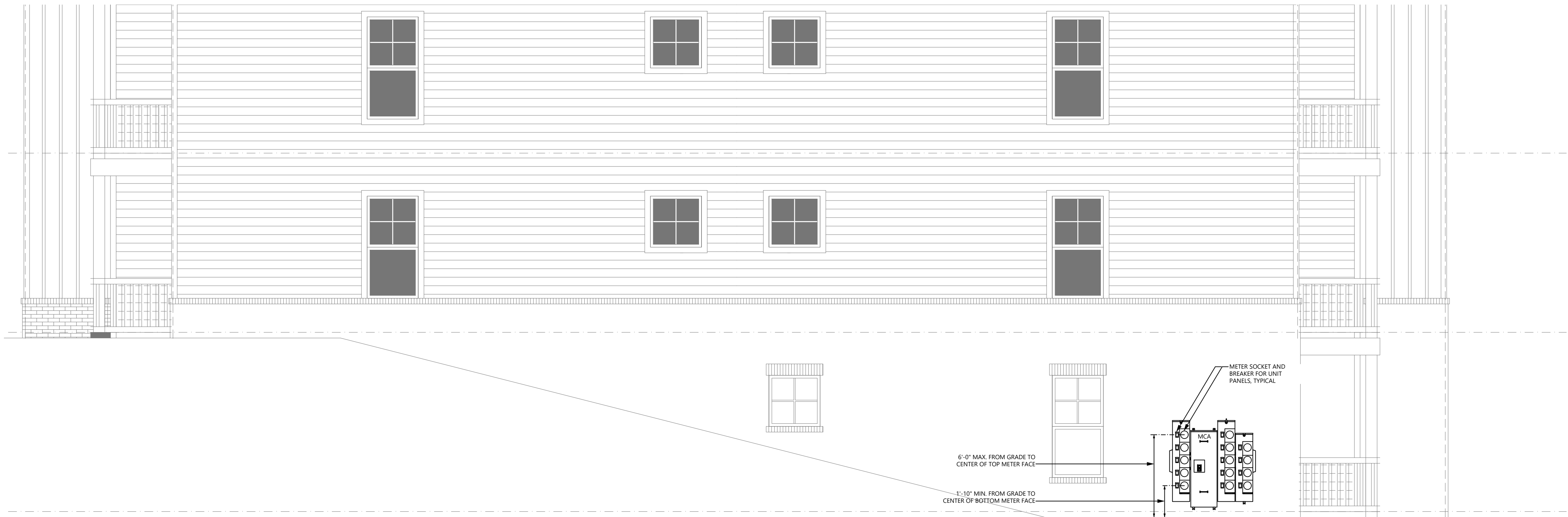
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

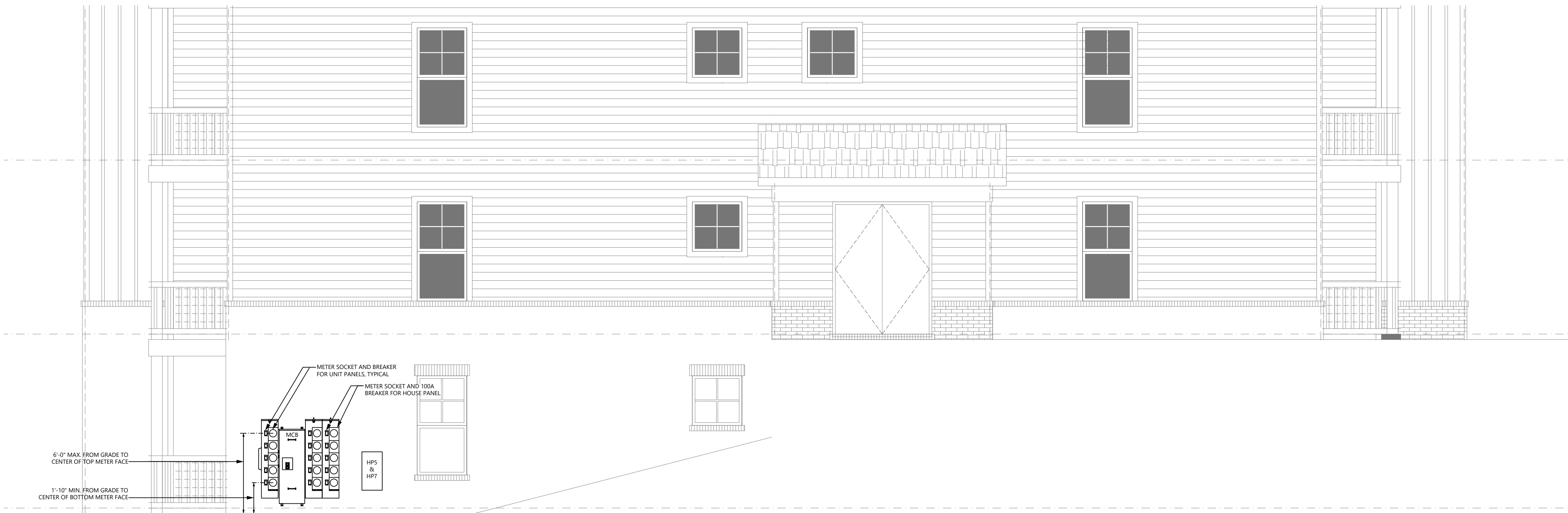
DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - THIRD FLOOR -
BUILDINGS 5 & 7

SHEET #:
E-24



1 PARTIAL PLAN EAST ELEVATION - BUILDINGS 5 & 7 (28-UNIT BUILDINGS)
1/4"=1'-0"



2 PARTIAL PLAN WEST ELEVATION - BUILDINGS 5 & 7 (28-UNIT BUILDINGS)
1/4"=1'-0"

#	REVISIONS	DATE

TYPICAL PANEL SCHEDULE FOR 1 BEDROOM UNITS

NEW PANEL: 1-BDRM													
VOLTAGE: 120/ 240 PHASE / WIRE: 1φ/ 3W AMPS: 100 AIC: 10,000								MOUNTING: FLUSH MAIN: LUGS ONLY					
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #	L1		L2	CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA	
0.00	12	20	LIGHTING	1	●			2	REC - LIVING ROOM	20	12	0.00	
0.00	12	20	REC - GENERAL	3			●	4	REC - KITCHEN	20	12	0.00	
0.00	12	20	REC - KITCHEN	5	●			6	REFRIGERATOR (NOTE #7)	20	12	0.00	
0.00	12	20	RANGE HOOD	7			●	8	DISHWASHER (NOTE #7)	20	12	0.00	
0.00	12	20	DISPOSAL	9	●			10	RANGE	50	6	0.00	
0.00	12	20	REC - BEDROOM	11			●	12			6	0.00	
0.00	12	20	BATHROOM	13	●			14	AIR HANDLER	20	12	0.00	
0.00	12	20	BEDROOM FAN	15			●	16			12	0.00	
0.00	12	20	DRYER BOOSTER FAN	17	●			18	HEAT PUMP	15	8	0.00	
0.00	12	20	WASHER (NOTE #7)	19			●	20			8	0.00	
0.00	12	20	TELECOM BOX	21	●			22	DRYER	30	10	0.00	
0.00	12	20	TELECOM BOX	23			●	24			10	0.00	
0.00	12	20	FIRE ALARM (NOTE #8)	25	●			26	WATER HEATER	50	6	0.00	
0.00		20	SPARE	27			●	28			6	0.00	
0.00		20	SPARE	29	●			30	SPARE	20		0.00	
				31				32					
				33	●			34					
				35			●	36					
				37	●			38					
				39			●	40					
				41	●			42					
0.0				SUB TOTALS								0.0	
LOAD (KVA)				Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE						
LIGHTS				0.0	1.25	0.0	CONNECTED						(NOTE #10)
HEATING				0.0	1.00	0.0	L1= 0.0 kVA	0.0 AMPS					
COOLING				0.0	1.00	0.0	L2= 0.0 kVA	0.0 AMPS					
VENTILATION				0.0	1.00	0.0							(NOTE #10)
MOTORS				0.0	1.00	0.0	DEMAND						
KITCHEN				0.0	0.65	0.0	L1= 0.0 kVA	0.0 AMPS					
REC. (1st 10kVA)				0.0	1.00	0.0	L2= 0.0 kVA	0.0 AMPS					
REC. (>10kVA)				0.0	0.50	0.0							(NOTE #10)
WATER HEATER				0.0	1.00	0.0	DEMAND AT 125%						
MISC.				0.0	1.00	0.0	L1= 0.0 kVA	0.0 AMPS					
SPARE				0.0	1.00	0.0	L2= 0.0 kVA	0.0 AMPS					
NOTES:													
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.													
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.													
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.													
4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.													
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.													
6. PROVIDE METAL DIRECTORY FRAME.													
7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).													
8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.													
9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.													
10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.													

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 1 BEDROOM UNITS													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCB	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
AHU-1	1 BEDROOM AIR HANDLER	240	1	-	-	16.8	20	3#12,1#12G,3/4"C	30	2	20	1	1
HP-1	1 BEDROOM HEAT PUMP	240	1	-	-	11.4	15	NOTE 3	30	2	15	3R	1.3
EWH-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
EF-1	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH				1.2
NOTES:													
1	COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
3	WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

TYPICAL LOAD SUMMARY FOR 1 BEDROOM & 1 BEDROOM TYPE-A UNITS

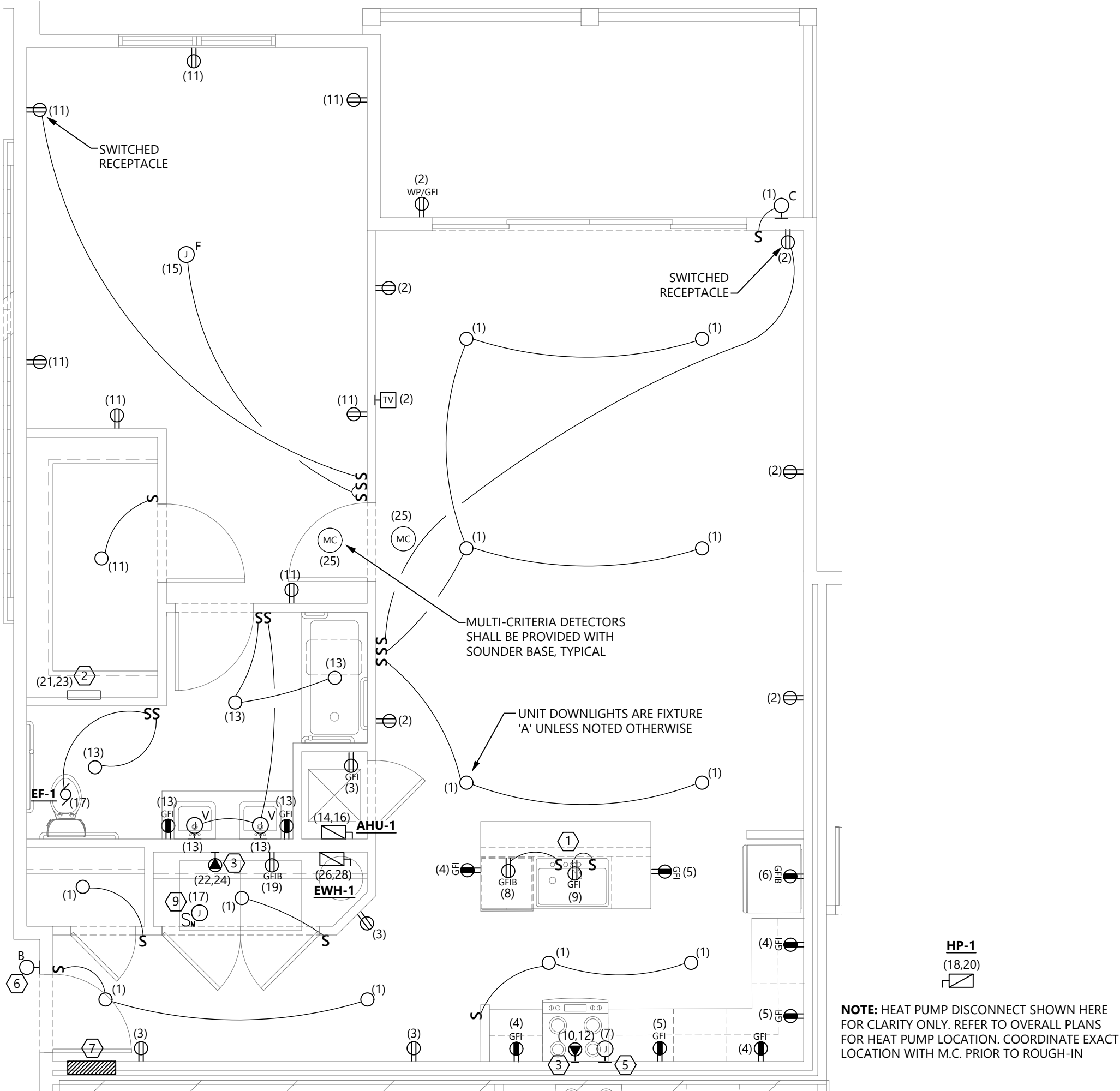
SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION												
UNIT / SUITE: 1BDRM, 1BDRM TYPE-A (Optional Calculation)												
Voltage (L-L): 240 Volts			Project Name: Naples Road Apartments									
Phase: 1			Project #: 24-125									
Floor Area: 1094 Sq Ft			By: Matt Lewis									
			Date: 3/13/2025									
LOAD		KVA	QTY	KVA	NOTES							
General Lighting Load		3.28	1	3.28	3 VA/SF							
(2) Small Appliance Circuits		3.00	1	3.00	(2) Dedicated 20A Ckts (w/ GFCI-P)							
Laundry Circuit		1.50	1	1.50	Dedicated 20A Ckt							
Electric Range		8.00	1	8.00								
Clothes Dryer		5.00	1	5.00								
A/C and Cooling (240V)		3.63	1	3.63	Enter quantity for only the largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".							
HP Compressor (240V)		2.19	0	0.00								
Strip Heat (240V)		2.00	0	0.00								
Electric Space Heat (240V)		0.00	0	0.00								
Elec Thermal / Other (240V)		0.00	0	0.00								
Water Heater (240V)		9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal							
Water Heater (120V)		1.50	0	0.00								
Dishwasher		0.80	1	0.80								
Disposal		1.00	1	1.00	(1) 20A Ckt for Dishwasher & Disposal							
Microwave		1.50	1	1.50	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.							
Refrigerator		0.80	1	0.80								
		0.00	0	0.00								
		0.00	0	0.00								
		0.00	0	0.00								
TOTAL CONNECTED LOAD FOR UNIT				38.11	KVA							
DEMAND LOAD (PHASE)					DEMAND LOAD (NEUTRAL)							
1st 10 kVA @ 100%		10.00	kVA	Gen Ltg, Small Appliance, Laundry		7.78						
Remaining @ 40%		9.7928	kVA	1st 3 kVA @ 100%		3.00	kVA					
A/C & Cooling @ 100%		3.63	kVA	> 3 kVA to 120 kVA @ 35%		1.67	kVA					
HP Compressor @ 100%		0.00	kVA	> 120 kVA @ 25%		0.00	kVA					
HP Strip Heat @ 55%		0.00	kVA	Remaining L-N Loads @ 100%		4.10	kVA					
Electric Space Heat @ 65%		0.00	kVA	Dryer Load @ 70%		3.50	kVA					
Electric Space Heat @ 40%		0.00	kVA	Range Load @ 70%		4.48	kVA					
Electric Thermal & Other Heating		0.00	kVA	Unbalanced load > 200A @ 70%		0.00	kVA					
TOTAL DEMAND LOAD (PHASE)				23.42 kVA 97.60 AMPS	TOTAL DEMAND LOAD (NEUTRAL)				16.75 kVA 69.81 AMPS			
Quantity of 15A general lighting circuits (w/ AFCI-P) = 2					AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.							
OR												
Quantity of 20A general lighting circuits (w/ AFCI-P) = 2												
NOTES:												
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire												

TYPICAL PANEL SCHEDULE FOR 1 BEDROOM TYPE-A UNITS

NEW PANEL: 1-BDRM TYPE-A													
VOLTAGE: 120/ 240 PHASE / WIRE: 1φ/ 3W AMPS: 100 AIC: 10,000								MOUNTING: FLUSH MAIN: LUGS ONLY					
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #				CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA	
					L1		L2						
0.00	12	20	LIGHTING	1	●			2	REC - LIVING ROOM	20	12	0.00	
0.00	12	20	REC - GENERAL	3			●	4	REC - KITCHEN	20	12	0.00	
0.00	12	20	REC - KITCHEN	5	●			6	REFRIGERATOR (NOTE #7)	20	12	0.00	
0.00	12	20	RANGE HOOD	7			●	8	DISHWASHER (NOTE #7)	20	12	0.00	
0.00	12	20	DISPOSAL	9	●			10	RANGE	50	6	0.00	
0.00	12	20	REC - BEDROOM	11			●	12			6	0.00	
0.00	12	20	REC - BATHROOM	13	●			14	AIR HANDLER	20	12	0.00	
0.00	12	20	BEDROOM FAN	15			●	16			12	0.00	
0.00	12	20	DRYER BOOSTER FAN	17	●			18	HEAT PUMP	15	8	0.00	
0.00	12	20	WASHER (NOTE #7)	19			●	20			8	0.00	
0.00	12	20	TELECOM BOX	21	●			22	DRYER	30	10	0.00	
0.00	12	20	TELECOM BOX	23			●	24			10	0.00	
0.00	12	20	FIRE ALARM (NOTE #8)	25	●			26	WATER HEATER	50	6	0.00	
0.00			SPARE	27			●	28			6	0.00	
0.00			SPARE	29	●			30	SPARE	20		0.00	
				31			●	32					
				33	●			34					
				35			●	36					
				37	●			38					
				39			●	40					
				41	●			42					
				SUB TOTALS									0.0
LOAD (kVA)													
LIGHTS		0.0	1.25	0.0	TOTAL LOAD PER PHASE				(NOTE #10)				
HEATING		0.0	1.00	0.0	CONNECTED								
COOLING		0.0	1.00	0.0	L1=	0.0	kVA	0.0	AMPS	(NOTE #10)			
VENTILATION		0.0	1.00	0.0	L2=	0.0	kVA	0.0	AMPS				
MOTORS		0.0	1.00	0.0	DEMAND				(NOTE #10)				
KITCHEN		0.0	0.65	0.0	L1-	0.0	kVA	0.0				AMPS	
REC. (1st 10kVA)		0.0	1.00	0.0	L2-	0.0	kVA	0.0	AMPS	(NOTE #10)			
REC. (>10kVA)		0.0	0.50	0.0	DEMAND AT 125%								
WATER HEATER		0.0	1.00	0.0	DEMAND AT 125%				(NOTE #10)				
MISC.		0.0	1.00	0.0	L1=	0.0	kVA	0.0				AMPS	
SPARE		0.0	1.00	0.0	L2=	0.0	kVA	0.0	AMPS				
NOTES:													
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.													
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.													
3. ALL BUSSING, INCL GND AND NEUTRAL SHALL BE COPPER.													
4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.													
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.													
6. PROVIDE METAL DIRECTORY FRAME.													
7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).													
8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.													
9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.													
10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.													

TYPICAL LOAD SUMMARY FOR 1 BEDROOM & 1 BEDROOM TYPE-A UNITS

SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION							
UNIT / SUITE: 1BDRM, 1BDRM TYPE-A				(Optional Calculation)			
Voltage (L-L)		240 Volts		Project Name: Naples Road Apartments			
Phase		1		Project #: 24-125			
Floor Area		1094 Sq Ft		By: Matt Lewis			
				Date: 3/13/2025			
LOAD		kVA	QTY	kVA	NOTES		
General Lighting Load		3.28	1	3.28	3 VA/SF		
(2) Small Appliance Circuits		3.00	1	3.00	(2) Dedicated 20A Ckts (w/ GFCI-P)		
Laundry Circuit		1.50	1	1.50	Dedicated 20A Ckt		
Electric Range		8.00	1	8.00			
Clothes Dryer		5.00	1	5.00			
A/C and Cooling (240V)		3.63	1	3.63	Enter quantity for only the largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".		
HP Compressor (240V)		2.19	0	0.00			
Strip Heat (240V)		2.00	0	0.00			
Electric Space Heat (240V)		0.00	0	0.00			
Elec Thermal / Other (240V)		0.00	0	0.00			
Water Heater (240V)		9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal		
Water Heater (120V)		1.50	0	0.00			
Dishwasher		0.80	1	0.80	(1) 20A Ckt for Dishwasher & Disposal		
Disposal		1.00	1	1.00			
Microwave		1.50	1	1.50	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.		
Refrigerator		0.80	1	0.80			
		0.00	0	0.00			
		0.00	0	0.00			
		0.00	0	0.00			
TOTAL CONNECTED LOAD FOR UNIT				38.11	kVA		
DEMAND LOAD (PHASE)				DEMAND LOAD (NEUTRAL)			
1st 10 kVA @ 100%	10.00	kVA		Gen Ltg, Small Appliance, Laundry	7.78		
Remaining @ 40%	9.7928	kVA		1st 3 kVA @ 100%	3.00	kVA	
A/C & Cooling @ 100%	3.63	kVA		> 3 kVA to 120 kVA @ 35%	1.67	kVA	
HP Compressor @ 100%	0.00	kVA		> 120 kVA @ 25%	0.00	kVA	
HP Strip Heat @ 65%	0.00	kVA		Remaining L-N Loads @ 100%	4.10	kVA	
Electric Space Heat @ 65%	0.00	kVA		Dryer Load @ 70%	3.50	kVA	
Electric Space Heat @ 40%	0.00	kVA		Range Load @ 70%	4.48	kVA	
Electric Thermal & Other Heating	0.00	kVA		Unbalanced load > 200A @ 70%	0.00	kVA	
TOTAL DEMAND LOAD (PHASE)		23.42	kVA	TOTAL DEMAND LOAD (NEUTRAL)		16.75	kVA
		97.60	AMPS			69.81	AMPS
Quantity of 15A general lighting circuits (w/ AFCI-P) = 2				AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.			
OR							
Quantity of 20A general lighting circuits (w/ AFCI-P) = 2							
NOTES:							
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire							



1 ENLARGED UNIT PLAN - 1 BEDROOM TYPE-A

1/4" = 1'-0"

GENERAL NOTES:

- AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN.
- ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE 2" EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.
- COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN-STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS.
- OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT.
- RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.
- IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117.1 SECTION 308. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

KEYED NOTES:

- PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE 2" EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.
- SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE.
- IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN.
- EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL. SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION.
- TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.
- COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.
- JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 1 BEDROOM UNITS													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCP	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
AHU-1	1 BEDROOM AIR HANDLER	240	1	-	-	16.8	20	3#12,1#12G,3/4"C	30	2	20	1	1
HP-1	1 BEDROOM HEAT PUMP	240	1	-	-	11.4	15	NOTE 3	30	2	15	3R	1,3
EWH-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
EF-1	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH				1,2
NOTES:													
1	COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
3	WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

TYPICAL PANEL SCHEDULE FOR 2 BEDROOM TYPE-A UNITS

NEW PANEL: 2-BDRM TYPE-A												
VOLTAGE: 120/ 240 PHASE / WIRE: 1p/ 3W AMPS: 125 AIC: 10,000								MOUNTING: FLUSH MAIN: LUGS ONLY				
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #	L1	L2	CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA	
0.00	12	20	LIGHTING	1	●		2	REC - LIVING ROOM	20	12	0.00	
0.00	12	20	REC - GENERAL	3		●	4	REC - KITCHEN	20	12	0.00	
0.00	12	20	REC - KITCHEN	5	●		6	REFRIGERATOR (NOTE #7)	20	12	0.00	
0.00	12	20	RANGE HOOD	7		●	8	DISHWASHER (NOTE #7)	20	12	0.00	
0.00	12	20	DISPOSAL	9	●		10	RANGE	50	6	0.00	
0.00	12	20	REC - MASTER BEDROOM	11		●	12			6	0.00	
0.00	12	20	MASTER BATHROOM	13	●		14	AIR HANDLER	25	10	0.00	
0.00	12	20	FAN - MASTER BEDROOM	15		●	16			10	0.00	
0.00	12	20	DRYER BOOSTER FAN	17	●		18	HEAT PUMP	20	8	0.00	
0.00	12	20	WASHER (NOTE #7)	19		●	20			8	0.00	
0.00	12	20	TELECOM BOX	21	●		22	DRYER	30	10	0.00	
0.00	12	20	TELECOM BOX	23		●	24			10	0.00	
0.00	12	20	FIRE ALARM (NOTE #8)	25	●		26	WATER HEATER	50	6	0.00	
0.00	12	20	REC - BEDROOM #2	27		●	28			6	0.00	
0.00	12	20	BATHROOM #2	29	●		30	SPARE	20			
0.00	12	20	FAN - BEDROOM #2	31		●	32	SPARE	20			
			20 SPARE	33	●		34	SPARE	20			
			20 SPARE	35		●	36	SPARE	20			
			20 SPARE	37	●		38	SPARE	20			
			20 SPARE	39		●	40	SPARE	20			
			20 SPARE	41	●		42	SPARE	20			
				SUB TOTALS				0.0				
0.0												0.0
LOAD (kVA) Conn. D.F. Dmd. TOTAL LOAD PER PHASE												
LIGHTS 0.0 1.25 0.0 CONNECTED (NOTE #10)												
HEATING 0.0 1.00 0.0 L1= 0.0 kVA 0.0 AMPS												
COOLING 0.0 1.00 0.0 L2= 0.0 kVA 0.0 AMPS												
VENTILATION 0.0 1.00 0.0												
MOTORS 0.0 1.00 0.0 DEMAND (NOTE #10)												
KITCHEN 0.0 0.65 0.0 L1- 0.0 kVA 0.0 AMPS												
REC. (1st 10kVA) 0.0 1.00 0.0 L2- 0.0 kVA 0.0 AMPS												
REC. (>10kVA) 0.0 0.50 0.0												
WATER HEATER 0.0 1.00 0.0 DEMAND AT 125% (NOTE #10)												
MISC. 0.0 1.00 0.0 L1= 0.0 kVA 0.0 AMPS												
SPARE 0.0 1.00 0.0 L2= 0.0 kVA 0.0 AMPS												
NOTES:												
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.												
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.												
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.												
4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.												
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.												
6. PROVIDE METAL DIRECTORY FRAME.												
7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).												
8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.												
9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.												
10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.												

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 2 BEDROOM UNITS													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCp	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
AHU-2	1 BEDROOM AIR HANDLER	240	1	-	-	24.9	25	3#10,1#10G,1"C	30	2	25	1	1
HP-2	1 BEDROOM HEAT PUMP	240	1	-	-	13.8	20	NOTE 3	30	2	20	3R	1,3
EW-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
EF-1	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH				1,2
NOTES:													
1	COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
3	WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

TYPICAL LOAD SUMMARY FOR 2 BEDROOM, 2 BEDROOM TYPE-A, & 2 BEDROOM ACCESSIBLE UNITS

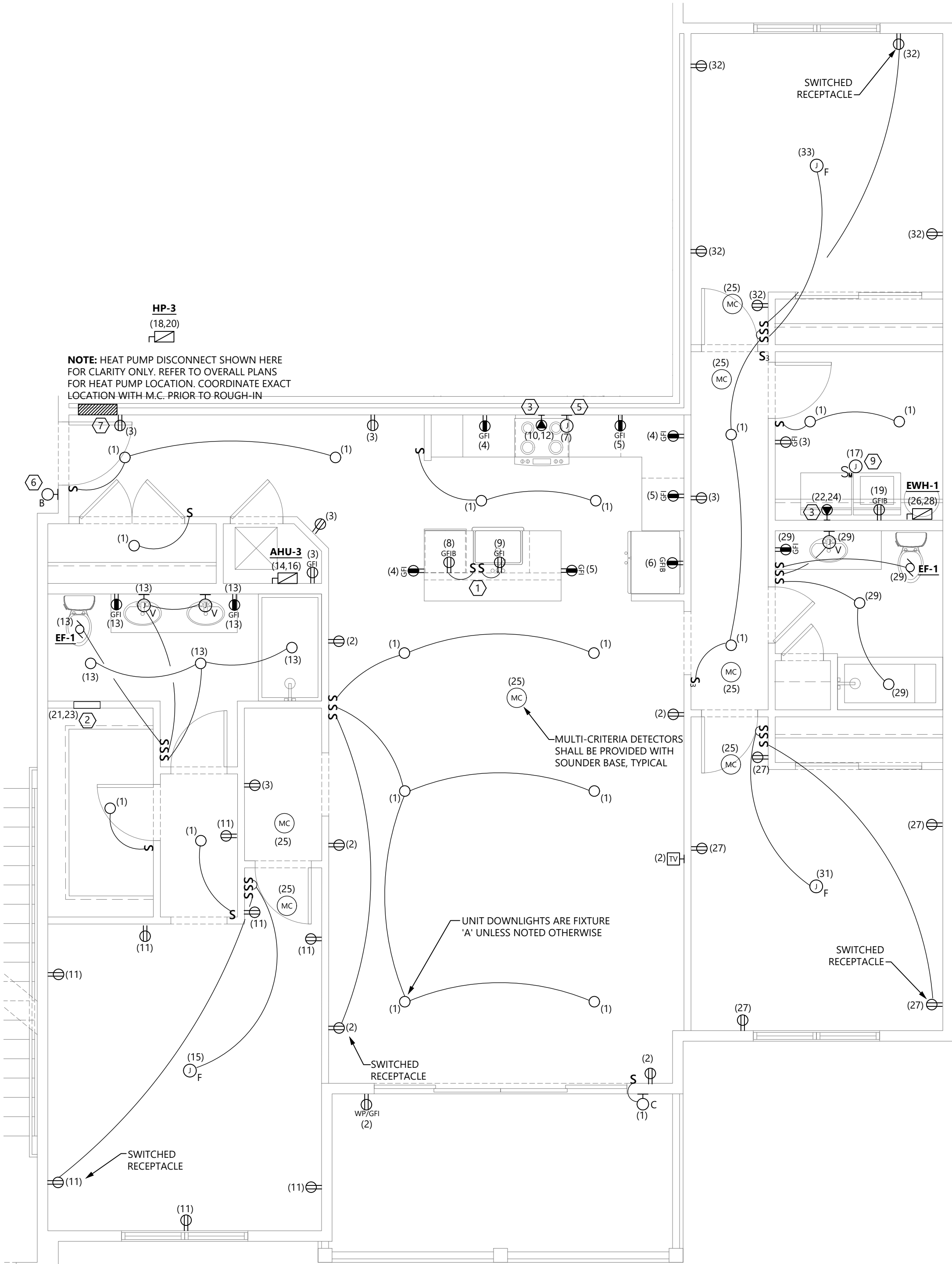
SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION						
UNIT / SUITE: 2 BDRM, 2BDRM TYPE-A, 2BDRM ACCESSIBLE				(Optional Calculation)		
Voltage (L-L):		240 Volts		Project Name:		Naples Road Apartments
Phase:		1		Project #:		24-125
Floor Area:		1427 Sq Ft		By:		Matt Lewis
				Date:		3/13/2025
LOAD		KVA	QTY	KVA	NOTES	
General Lighting Load		4.28	1	4.28	3 VA/SF	
(2) Small Appliance Circuits		3.00	1	3.00	(2) Dedicated 20A Ckts (w/ GFCI-P)	
Laundry Circuit		1.50	1	1.50	Dedicated 20A Ckt	
Electric Range		8.00	1	8.00		
Clothes Dryer		5.00	1	5.00		
A/C and Cooling (240V)		5.44	1	5.44	Enter quantity for only the largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".	
HP Compressor (240V)		2.65	0	0.00		
Strip Heat (240V)		2.00	0	0.00		
Electric Space Heat (240V)		0.00	0	0.00		
Elec Thermal / Other (240V)		0.00	0	0.00		
Water Heater (240V)		9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal (1) 20A Ckt for Dishwasher & Disposal	
Water Heater (120V)		1.50	0	0.00		
Dishwasher		0.80	1	0.80		
Disposal		1.00	1	1.00		
Microwave		1.50	1	1.50		
Refrigerator		0.80	1	0.80	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.	
		0.00	0	0.00		
		0.00	0	0.00		
		0.00	0	0.00		
		0.00	0	0.00		
TOTAL CONNECTED LOAD FOR UNIT				40.92	KVA	
DEMAND LOAD (PHASE)				DEMAND LOAD (NEUTRAL)		
1st 10 kVA @ 100%		10.00	kVA	Gen Ltg, Small Appliance, Laundry		8.78
Remaining @ 40%		10.1924	kVA	1st 3 kVA @ 100%		3.00
A/C & Cooling @ 100%		5.44	kVA	> 3 kVA to 120 kVA @ 35%		2.02
HP Compressor @ 100%		0.00	kVA	> 120 kVA @ 25%		0.00
HP Strip Heat @ 65%		0.00	kVA	Remaining L-N Loads @ 100%		4.10
Electric Space Heat @ 65%		0.00	kVA	Dryer Load @ 70%		3.50
Electric Space Heat @ 40%		0.00	kVA	Range Load @ 70%		4.48
Electric Thermal & Other Heating		0.00	kVA	Unbalanced load > 200A @ 70%		0.00
TOTAL DEMAND LOAD (PHASE)		25.63	kVA	TOTAL DEMAND LOAD (NEUTRAL)		17.10
		106.90	AMPS			71.26
Quantity of 15A general lighting circuits (w/ AFCI-P) = 3 OR Quantity of 20A general lighting circuits (w/ AFCI-P) = 2				AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.		
NOTES:						
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire						

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM TYPE-A UNITS

NEW PANEL: 3-BDRM TYPE-A												
VOLTAGE: 120/ 240 PHASE / WIRE: 1φ/ 3W AMPS: 125 AIC: 10,000										MOUNTING: FLUSH MAIN: LUGS ONLY		
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #				CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA
					L1		L2					
0.00	12	20	LIGHTING	1	●			2	REC - LIVING ROOM	20	12	0.00
0.00	12	20	REC - GENERAL	3			●	4	REC - KITCHEN	20	12	0.00
0.00	12	20	REC - KITCHEN	5	●			6	REFRIGERATOR (NOTE #7)	20	12	0.00
0.00	12	20	RANGE HOOD	7			●	8	DISHWASHER (NOTE #7)	20	12	0.00
0.00	12	20	DISPOSAL	9	●			10	RANGE	50	6	0.00
0.00	12	20	REC - MASTER BEDROOM	11			●	12			6	0.00
0.00	12	20	MASTER BATHROOM	13	●			14	AIR HANDLER	30	10	0.00
0.00	12	20	FAN - MASTER BEDROOM	15			●	16			10	0.00
0.10	12	20	DRYER BOOSTER FAN	17	●			18	HEAT PUMP	25	8	0.00
0.00	12	20	WASHER (NOTE #7)	19			●	20			8	0.00
0.00	12	20	TELECOM BOX	21	●			22	DRYER	30	10	0.00
0.00	12	20	TELECOM BOX	23			●	24			10	0.00
0.00	12	20	FIRE ALARM (NOTE #8)	25	●			26	WATER HEATER	50	6	0.00
0.00	12	20	REC - BEDROOM #2	27			●	28			6	0.00
0.00	12	20	BATHROOM #2	29	●			30	SPARE	20		
0.00	12	20	FAN - BEDROOM #2	31			●	32	REC - BEDROOM #3	20	12	
0.00	12	20	FAN - BEDROOM #3	33	●			34	SPARE	20		
		20	SPARE	35			●	36	SPARE	20		
		20	SPARE	37	●			38	SPARE	20		
		20	SPARE	39			●	40	SPARE	20		
		20	SPARE	41	●			42	SPARE	20		
0.1 SUB TOTALS 0.0												
LOAD (kVA)			Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE						
LIGHTS			0.0	1.25	0.0	CONNECTED			(NOTE #10)			
HEATING			0.0	1.00	0.0	L1=	0.1	kVA	0.8 AMPS			
COOLING			0.0	1.00	0.0	L2=	0.0	kVA	0.0 AMPS			
VENTILATION			0.0	1.00	0.0							
MOTORS			0.1	1.00	0.1	DEMAND			(NOTE #10)			
KITCHEN			0.0	0.65	0.0	L1-	0.1	kVA	0.8 AMPS			
REC. (1st 10kVA)			0.0	1.00	0.0	L2-	0.0	kVA	0.0 AMPS			
REC. (>10kVA)			0.0	0.50	0.0							
WATER HEATER			0.0	1.00	0.0	DEMAND AT 125%			(NOTE #10)			
MISC.			0.0	1.00	0.0	L1=	0.1	kVA	1.0 AMPS			
SPARE			0.0	1.00	0.0	L2=	0.0	kVA	0.0 AMPS			
NOTES:												
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME. 7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX). 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED. 9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS. 10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.												

TYPICAL LOAD SUMMARY FOR 3 BEDROOM, 3 BEDROOM TYPE-A, & 3 BEDROOM ACCESSIBLE UNITS

SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION						
UNIT / SUITE: 3BDRM, 3BDRM TYPE-A, 3BDRM ACCESSIBLE				(Optional Calculation)		
Voltage (L-L):		240		Project Name:		Naples Road Apartments
Phase:		1		Project #:		24-125
Floor Area:		1716		By:		Matt Lewis
				Date:		3/13/2025
LOAD		KVA	QTY	KVA	NOTES	
General Lighting Load		5.15	1	5.15	3 VA/SF	
(2) Small Appliance Circuits		3.00	1	3.00	(2) Dedicated 20A Ckts (w/ GFCI-P)	
Laundry Circuit		1.50	1	1.50	Dedicated 20A Ckt	
Electric Range		8.00	1	8.00		
Clothes Dryer		5.00	1	5.00		
A/C and Cooling (240V)		5.72	1	5.72	Enter quantity for only the largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".	
HP Compressor (240V)		3.26	0	0.00		
Strip Heat (240V)		2.00	0	0.00		
Electric Space Heat (240V)		0.00	0	0.00		
Elec Thermal / Other (240V)		0.00	0	0.00		
Water Heater (240V)		9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal (1) 20A Ckt for Dishwasher & Disposal	
Water Heater (120V)		1.50	0	0.00		
Dishwasher		0.80	1	0.80		
Disposal		1.00	1	1.00		
Microwave		1.50	1	1.50	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.	
Refrigerator		0.80	1	0.80		
		0.00	0	0.00		
		0.00	0	0.00		
		0.00	0	0.00		
		0.00	0	0.00		
TOTAL CONNECTED LOAD FOR UNIT				42.07	KVA	
DEMAND LOAD (PHASE)				DEMAND LOAD (NEUTRAL)		
1st 10 kVA @ 100%		10.00	kVA	Gen Ltg. Small Appliance, Laundry		9.65
Remaining @ 40%		10.5392	kVA	1st 3 kVA @ 100%		3.00
A/C & Cooling @ 100%		5.72	kVA	> 3 kVA to 120 kVA @ 35%		2.33
HP Compressor @ 100%		0.00	kVA	> 120 kVA @ 25%		0.00
HP Strip Heat @ 65%		0.00	kVA	Remaining L-N Loads @ 100%		4.10
Electric Space Heat @ 65%		0.00	kVA	Dryer Load @ 70%		3.50
Electric Space Heat @ 40%		0.00	kVA	Range Load @ 70%		4.48
Electric Thermal & Other Heating		0.00	kVA	Unbalanced load > 200A @ 70%		0.00
TOTAL DEMAND LOAD (PHASE)		26.26	kVA	TOTAL DEMAND LOAD (NEUTRAL)		17.41
		109.41	AMPS			72.53
Quantity of 15A general lighting circuits (w/ AFCI-P) = 3				AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.		
OR						
Quantity of 20A general lighting circuits (w/ AFCI-P) = 3						
NOTES:						
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire						



ENLARGED UNIT PLAN - 3 BEDROOM TYPE-A

1/4" = 1'-0"

GENERAL NOTES:

- AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN.
- ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND CEILING FAN BLADE CLEARANCE.
- PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12.
- COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/Common AREAS AND 15CD STROBE IN BATHROOMS.
- OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT.
- RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.
- IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117.1 SECTION 308. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

KEYED NOTES:

- PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE 2" EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.
- SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE.
- IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN.
- EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL. SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION.
- TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.
- COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.
- JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

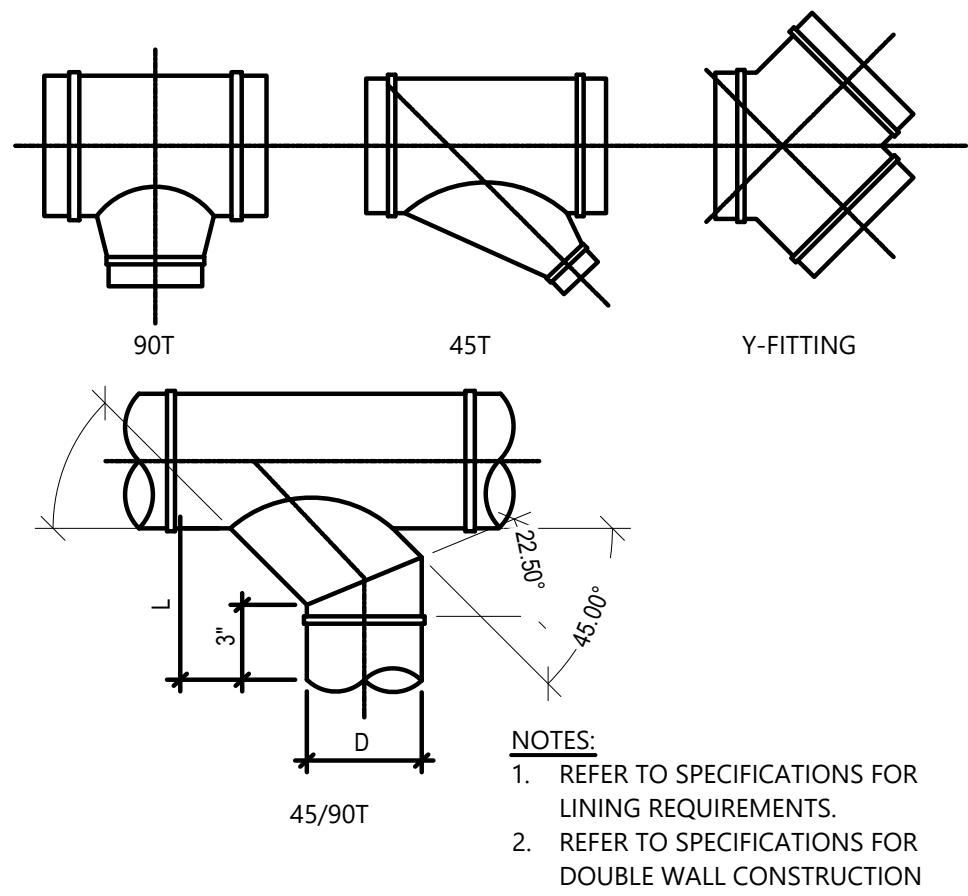
MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 3 BEDROOM UNITS													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCP	FEEDER	DISCONNECT SWITCH				
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	NOTES
AHU-3	1 BEDROOM AIR HANDLER	240	1	-	-	26.4	30	3#10,1#10G,1"C	30	2	30	1	1
HP-3	1 BEDROOM HEAT PUMP	240	1	-	-	17	25	NOTE 3	30	2	25	3R	1,3
EWH-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
EE-1	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH				1,2
NOTES:													
1	COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
3	WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM ACCESSIBLE UNITS

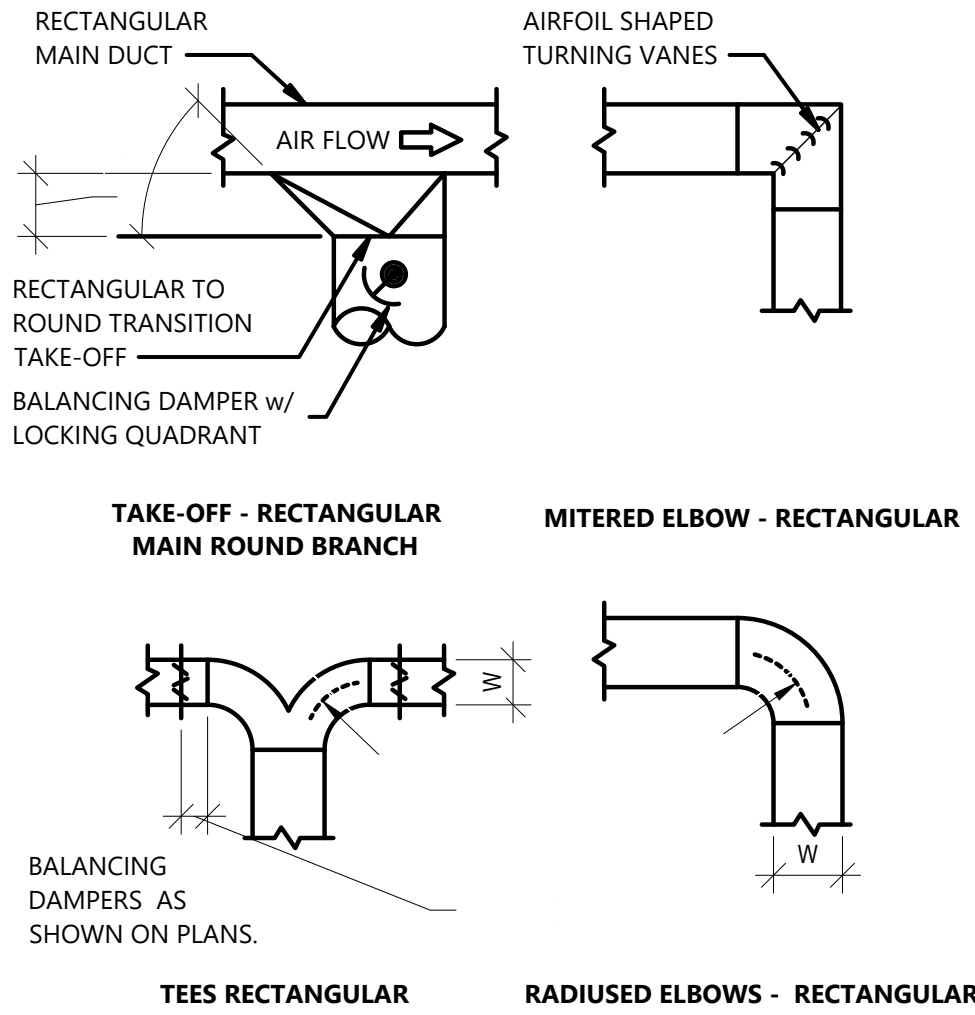
NEW PANEL: 3-BDRM ACCESSIBLE													
VOLTAGE: 120/ 240 PHASE / WIRE: 1φ/ 3W AMPS: 125 AIC: 10,000								MOUNTING: FLUSH MAIN: LUGS ONLY					
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #			CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA		
					L1	L2							
0.00	12	20	LIGHTING	1	●		2	REC - LIVING ROOM	20	12	0.00		
0.00	12	20	REC - GENERAL	3		●	4	REC - KITCHEN	20	12	0.00		
0.00	12	20	REC - KITCHEN	5	●		6	REFRIGERATOR (NOTE #7)	20	12	0.00		
0.00	12	20	RANGE HOOD	7		●	8	DISHWASHER (NOTE #7)	20	12	0.00		
0.00	12	20	DISPOSAL	9	●		10	RANGE	50	6	0.00		
0.00	12	20	REC - MASTER BEDROOM	11		●	12			6	0.00		
0.00	12	20	MASTER BATHROOM	13	●		14	AIR HANDLER	30	10	0.00		
0.00	12	20	FAN - MASTER BEDROOM	15		●	16			10	0.00		
0.10	12	20	DRYER BOOSTER FAN	17	●		18	HEAT PUMP	25	8	0.00		
0.00	12	20	WASHER (NOTE #7)	19		●	20			8	0.00		
0.00	12	20	TELECOM BOX	21	●		22	DRYER	30	10	0.00		
0.00	12	20	TELECOM BOX	23		●	24			10	0.00		
0.00	12	20	FIRE ALARM (NOTE #8)	25	●		26	WATER HEATER	50	6	0.00		
0.00	12	20	REC - BEDROOM #2	27		●	28			6	0.00		
0.00	12	20	BATHROOM #2	29	●		30	SPARE	20		0.00		
0.00	12	20	FAN - BEDROOM #2	31		●	32	REC - BEDROOM #3	20	12			
0.00	12	20	FAN - BEDROOM #3	33	●		34	SPARE	20				
		20	SPARE	35		●	36	SPARE	20				
		20	SPARE	37	●		38	SPARE	20				
		20	SPARE	39		●	40	SPARE	20				
		20	SPARE	41	●		42	SPARE	20				
0.1				SUB TOTALS								0.0	
LOAD (KVA)				Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE						
LIGHTS			0.0	1.25	0.0	CONNECTED					(NOTE #10)		
HEATING			0.0	1.00	0.0	L1=	0.1	KVA	0.8	AMPS			
COOLING			0.0	1.00	0.0	L2=	0.0	KVA	0.0	AMPS			
VENTILATION			0.0	1.00	0.0								
MOTORS			0.1	1.00	0.1	DEMAND					(NOTE #10)		
KITCHEN			0.0	0.65	0.0	L1-	0.1	KVA	0.8	AMPS			
REC. (1st 10KVA)			0.0	1.00	0.0	L2-	0.0	KVA	0.0	AMPS			
REC. (>10KVA)			0.0	0.50	0.0								
WATER HEATER			0.0	1.00	0.0	DEMAND AT 125%					(NOTE #10)		
MISC.			0.0	1.00	0.0	L1=	0.1	KVA	1.0	AMPS			
SPARE			0.0	1.00	0.0	L2=	0.0	KVA	0.0	AMPS			
NOTES:													
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.													
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.													
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.													
4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.													
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.													
6. PROVIDE METAL DIRECTORY FRAME.													
7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).													
8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.													
9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.													
10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.													

TYPICAL LOAD SUMMARY FOR 3 BEDROOM, 3 BEDROOM TYPE-A, & 3 BEDROOM ACCESSIBLE UNITS

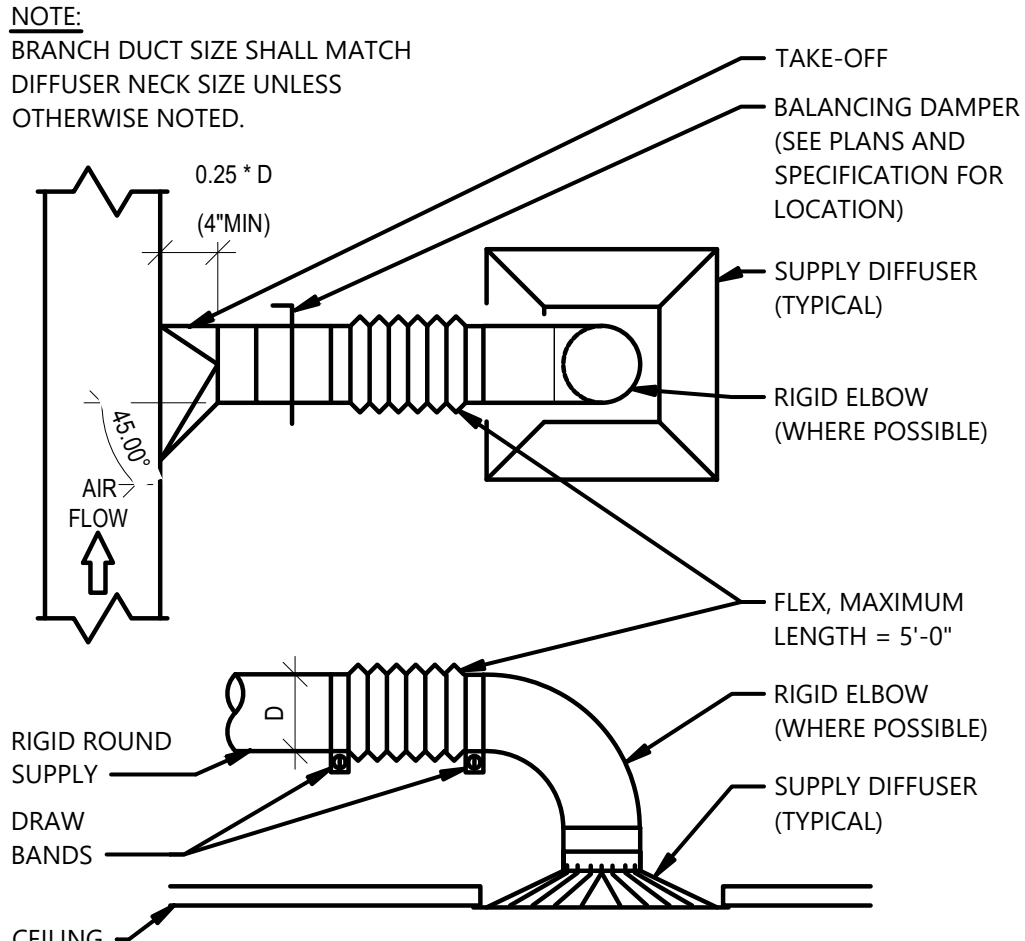
SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION									
UNIT / SUITE: 3BDRM, 3BDRM TYPE-A, 3BDRM ACCESSIBLE					(Optional Calculation)				
Voltage (L-L):		240		Volts		Project Name:		Naples Road Apartments	
Phase:		1				Project #:		24-125	
Floor Area:		1716		Sq Ft		By:		Matt Lewis	
						Date:		3/13/2025	
LOAD					kVA	QTY	kVA	NOTES	
General Lighting Load					5.15	1	5.15	3 VA/SF	
(2) Small Appliance Circuits					3.00	1	3.00	(2) Dedicated 20A Ckts (w/ GFCI-P)	
Laundry Circuit					1.50	1	1.50	Dedicated 20A Ckt	
Electric Range					8.00	1	8.00		
Clothes Dryer					5.00	1	5.00		
A/C and Cooling (240V)					5.72	1	5.72	Enter quantity for only the largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".	
HP Compressor (240V)					3.26	0	0.00		
Strip Heat (240V)					2.00	0	0.00		
Electric Space Heat (240V)					0.00	0	0.00		
Elec Thermal / Other (240V)					0.00	0	0.00		
Water Heater (240V)					9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal	
Water Heater (120V)					1.50	0	0.00		
Dishwasher					0.80	1	0.80	(1) 20A Ckt for Dishwasher & Disposal	
Disposal					1.00	1	1.00		
Microwave					1.50	1	1.50	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.	
Refrigerator					0.80	1	0.80		
					0.00	0	0.00		
					0.00	0	0.00		
					0.00	0	0.00		
TOTAL CONNECTED LOAD FOR UNIT					42.07		kVA		
DEMAND LOAD (PHASE)					DEMAND LOAD (NEUTRAL)				
1st 10 kVA @ 100%					10.00		kVA		9.65
Remaining @ 40%					10.5392		kVA		3.00
A/C & Cooling @ 100%					5.72		kVA		2.33
HP Compressor @ 100%					0.00		kVA		0.00
HP Strip Heat @ 65%					0.00		kVA		4.10
Electric Space Heat @ 65%					0.00		kVA		3.50
Electric Space Heat @ 40%					0.00		kVA		4.48
Electric Thermal & Other Heating					0.00		kVA		0.00
TOTAL DEMAND LOAD (PHASE)					26.26		kVA		17.41
					109.41		AMPS		72.53
									AMPS



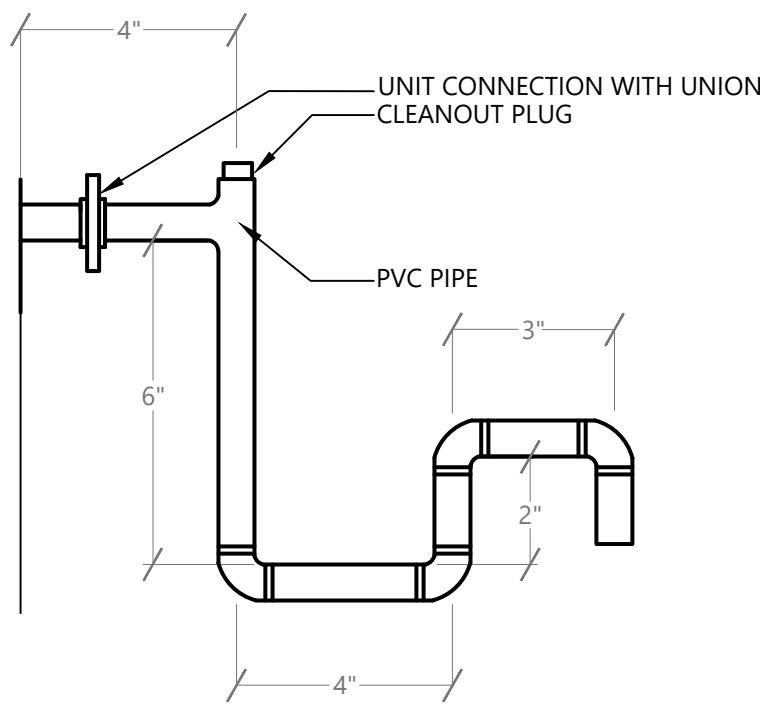
NO SCALE
① ROUND DUCT FITTINGS DETAIL



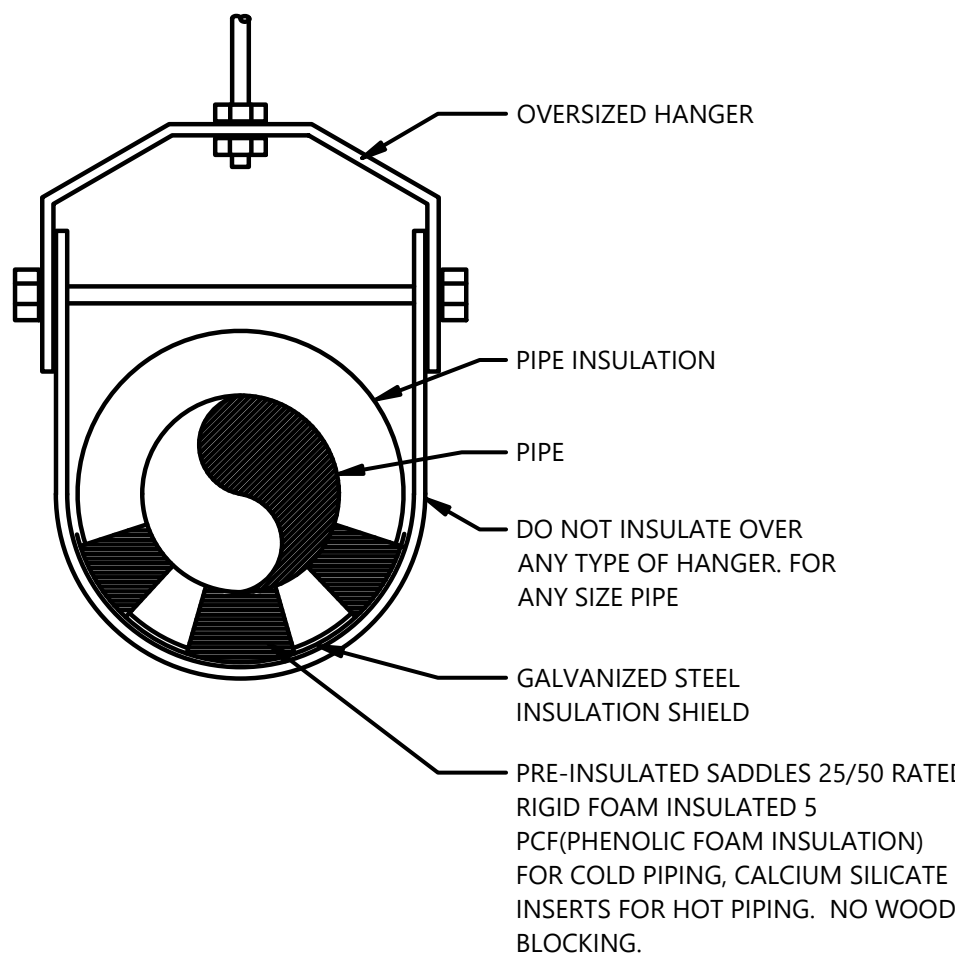
NO SCALE
② RECTANGULAR DUCT FITTINGS DETAIL



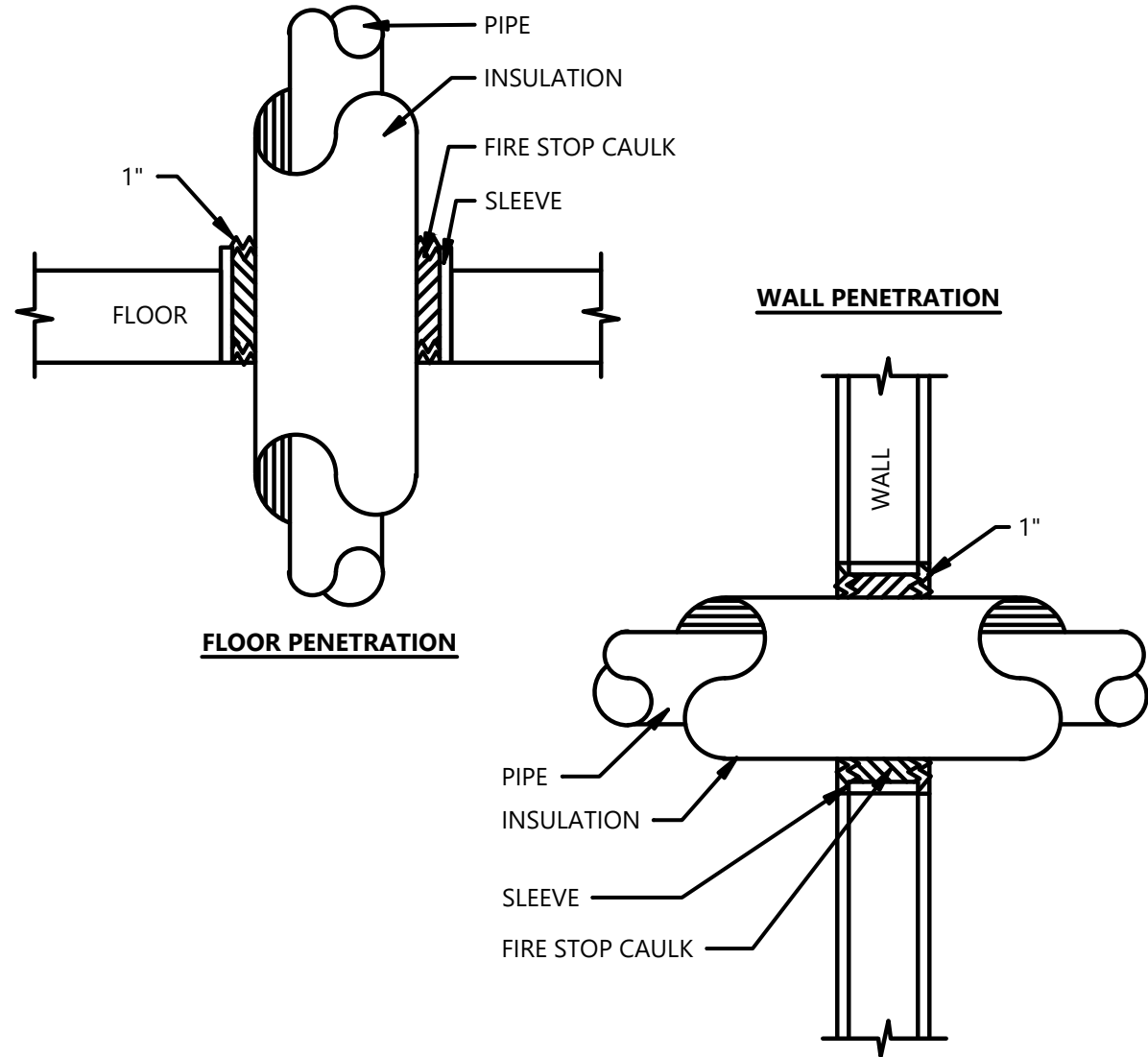
NO SCALE
③ ROUND BRANCH DUCT TAKE-OFF DETAIL



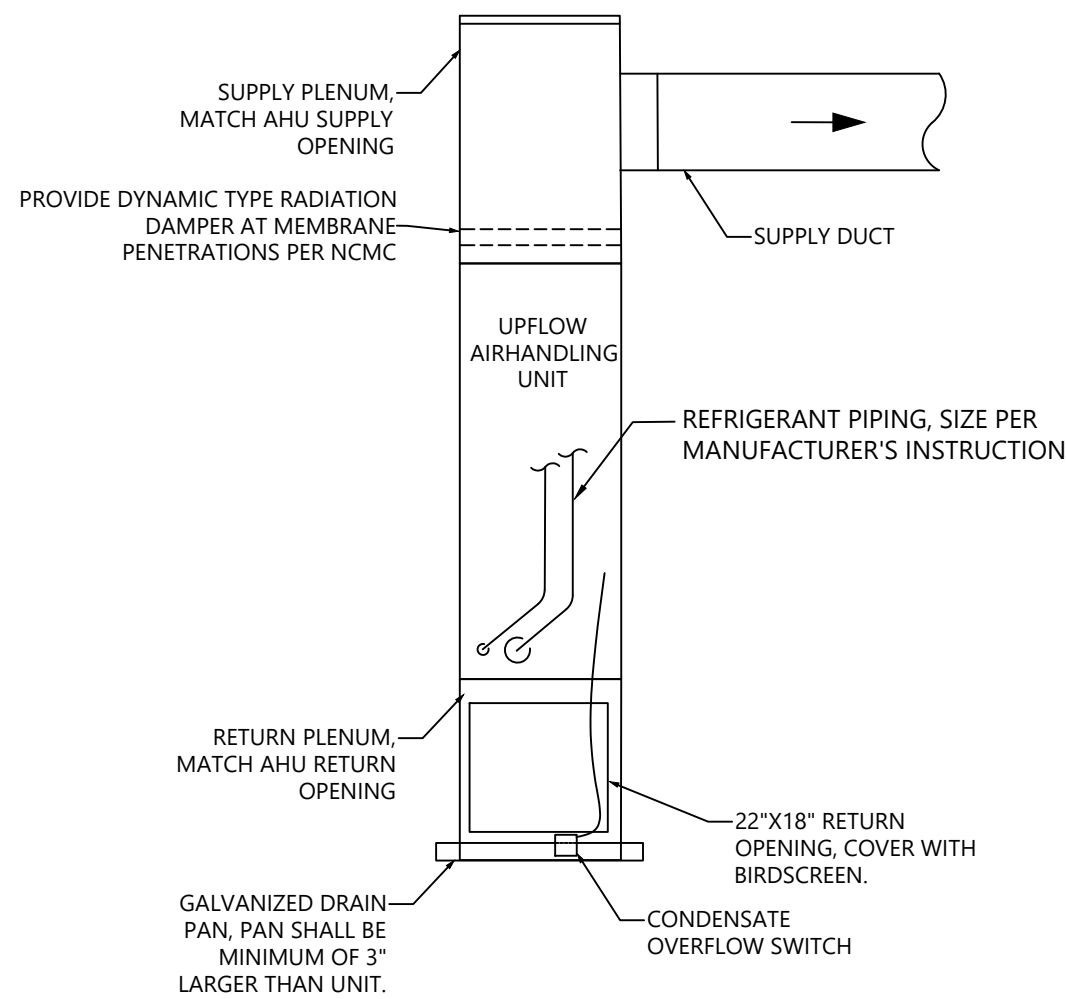
NO SCALE
④ DRAIN CONNECTION DETAIL



NO SCALE
⑤ TYPICAL PIPE HANGER DETAIL



NO SCALE
⑥ PIPE PENETRATION DETAILS



NO SCALE
⑦ APARTMENT AHU DETAIL

Building Code - 2018 North Carolina NCBC

Prescriptive	<input type="checkbox"/> Energy Cost Budget	2018 NCECC
Thermal Zone		3A
winter dry bulb		18°F
summer dry bulb		94°F
Interior design conditions		
winter dry bulb		70°F
summer dry bulb		75°F
relative humidity		50%RH
Building heating load		530.4 MBH
Building cooling load		440.4 MBH
Mechanical Space Conditioning System		
Unitary description of unit		1.5-TON x8, 2-TON x16, 2.5-TON x4 DX SPLITS
heating efficiency (HSPF)		7.5, 7.5, 7.8
cooling efficiency (SEER2)		14.5, 14.3, 15.2
heat output of unit		18, 24, 30 MBH
cooling output of unit		18, 24, 30 MBH
Equipment schedules with motors (mechanical systems)		N/A
motor horsepower		SEE EQUIPMENT SCHEDULES
number of phases		SEE EQUIPMENT SCHEDULES
minimum efficiency		SEE EQUIPMENT SCHEDULES
motor type		SEE EQUIPMENT SCHEDULES
# of poles		SEE EQUIPMENT SCHEDULES

MECHANICAL GENERAL NOTES

- COMPLY WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- DUCTWORK IS PERMITTED TO BE ABOVE ELECTRICAL EQUIPMENT ONLY IF IT IS INSTALLED OUTSIDE OF THE DEDICATED ELECTRICAL SPACE DEFINED AS THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER. DUCTWORK INSTALLED ABOVE ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH PROTECTION TO AVOID DAMAGE FROM CONDENSATION, LEAKS, BREAKS, ETC. REFER TO THE NEC FOR EXACT DEFINITION OF DEDICATED ELECTRICAL SPACE.
- ALL ISOLATION VALVES, EQUIPMENT, CONTROLS, ETC. REQUIRING ACCESS/SERVICE SHALL BE INSTALLED WITHIN 18" OF THE CEILING FOR EASY ACCESSIBILITY. LOCATIONS SHALL BE INDICATED ON THE CEILING GRID PER THE SPECIFICATIONS.
- ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHATEVER INDICATED ON THE DRAWINGS OR NOT.
- COORDINATE EXACT THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLATION. STANDARD DEFAULT: INSTALL THE TOP OF ALL THERMOSTATS, SENSORS, AND SWITCHES AT 4'-0" ABOVE FINISHED FLOOR. DEVICES ON A PERIMETER WALL SHALL BE MOUNTED ON A FOAM-FILLED ELECTRICAL BOX, WITH ALL GAPS BETWEEN BOX AND WALL SEALED TO PREVENT INFILTRATION.
- PROVIDE ALL MISCELLANEOUS STEEL AND ITEMS REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPE, SHEET METAL AND EQUIPMENT.
- COORDINATE FLOOR, WALL & ROOF PENETRATIONS ETC. WITH ARCHITECTURAL/STRUCTURAL TRADES. FIRESTOP SHALL BE PROVIDED IN HOLES AND PENETRATIONS IN RATED ASSEMBLIES. ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED.
- EQUIPMENT OPERATED DURING CONSTRUCTION SHALL USE FILTERED MEDIA TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING COILS, DUCTWORK SYSTEMS, AIR TERMINALS ETC. AT COMPLETION OF CONSTRUCTION, MECHANICAL CONTRACTOR SHALL CLEAN ALL SYSTEMS WITH ALL CONTROL DEVICES WIDE OPEN AND REMOVE ANY REMAINING DEBRIS PRIOR TO TEST AND BALANCING. MECHANICAL CONTRACTOR SHALL REPLACE ALL FILTRATION WITH NEW FILTERS AT COMPLETION OF CONSTRUCTION. ANY DUCTWORK, AIR TERMINALS, AND/OR OTHER EQUIPMENT UPSTREAM OF FILTRATION SHALL BE CLEANED THOROUGHLY OF CONSTRUCTION DEBRIS BEFORE HANDING OVER TO OWNER.
- ALL MECHANICAL EQUIPMENT SHALL BE U.L. LISTED AND LABELED AS A COMPLETE PACKAGE, NOT THROUGH INDIVIDUAL COMPONENTS OR PARTS. PROVIDE REQUIRED 3RD PARTY FIELD UL LISTING SERVICES AS REQUIRED TO COMPLY.
- UPON PROJECT COMPLETION, THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER INSTALLATION INFORMATION INCLUDING RECORD SUBMITTALS (WITH ANY SUBMITTAL REVIEW COMMENTS ADDRESSED) AND O&M MANUALS FOR EACH PIECE OF EQUIPMENT INCLUDING ALL SELECTED OPTIONS, THE NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY, FULL CONTROL SYSTEM O&M AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, FULL SEQUENCE OF OPERATION, AND PROGRAMMED SETPOINTS. IN ADDITION, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A REGISTERED DESIGN PROFESSIONAL TO COMMISSION THE INSTALLED SYSTEM AND PROVIDE THE OWNER AND CODE REVIEWER A SEALED STATEMENT OF SYSTEM COMMISSIONING.
- PROVIDE A ONE YEAR WARRANTY FOR ALL WORK PERFORMED BEGINNING ON THE DAY THE SYSTEM IS COMPLETELY OPERATIONAL AND ACCEPTABLE BY THE OWNER.

SHEET METAL GENERAL NOTES

- STANDARD DUCTWORK SHALL BE GALVANIZED OR ALUMINUM SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. ALL CONCEALED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" THICK DUCT WRAP WITH VAPOR BARRIER. INSULATION (INCLUDING FLEXIBLE DUCT INSULATION) SHALL HAVE A MINIMUM INSTALLED R-VALUE OF 6.0.
- ALL DUCTWORK SHALL BE SEALED PER THE REQUIREMENTS OF THE STATE MECHANICAL CODE. SEAL LOW PRESSURE SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST DUCTWORK FOR POSITIVE/NEGATIVE 2" PRESSURE CLASS, SMACNA SEAL CLASS A, SMACNA LEAKAGE CLASS 4.
- NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED ON DRAWINGS, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES. SIGNIFICANT ALTERATIONS TO DUCT ROUTING SHALL BE APPROVED BY ARCHITECT/ENGINEER BEFORE PROCEEDING IN ORDER TO ENSURE ADEQUATE STATIC PRESSURE IS AVAILABLE.
- DUCTWORK LAYOUT HAS BEEN DESIGNED TO MINIMIZE SOUND TRANSMISSION. ALL FITTINGS SHALL BE PROVIDED AS INDICATED.
- WATERTIGHT CONCRETE CURBS SHALL BE PROVIDED AROUND ELEVATED FLOOR SLAB PENETRATIONS.
- UNLESS OTHERWISE NOTED, ALL DUCTWORK ABOVE CEILING OR EXPOSED IS OVERHEAD AND AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION WHERE REQUIRED. DUCTWORK AND ASSOCIATED COMPONENTS SHALL CLEAR DOORS AND WINDOWS.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO MECHANICAL EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE NOTED.
- RADIUS ELBOWS SHALL HAVE CENTERLINE RADIUS OF CURVATURE 1.5 TIMES THE DUCT DIAMETER OR WIDTH IN THE PLANE OF TURN. WHERE SQUARE (MITERED) ELBOWS ARE SHOWN, INSTALL TURNING VANES.
- DUCTWORK SIZES ARE INSIDE CLEAR DIMENSIONS. DUCTS CONNECTED TO EQUIPMENT SHALL EQUAL EQUIPMENT CONNECTION SIZE UNLESS NOTED OTHERWISE.
- MAXIMUM LENGTH ON FLEXIBLE DUCT SHALL BE 5'-0", UNLESS OTHERWISE NOTED ON DETAILS OR SPECIFICATIONS.
- THE MECHANICAL CONTRACTOR SHALL BALANCE ALL MECHANICAL SYSTEMS TO THE PERFORMANCE SPECIFICATIONS INDICATED ON PLANS AND PROVIDE THE ENGINEER WITH THREE COPIES OF A COMPLETE TEST AND BALANCE REPORT. THE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TO PROJECT COMPLETION. THE TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. ANY ADDITIONAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S REQUEST) AFTER REVIEW OF THE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TESTING AND BALANCING CONTRACTOR TO CONFIRM FILTERS ARE CLEAN, AND FREE OF DEBRIS PRIOR TO BEGINNING WORK. THE MECHANICAL CONTRACTOR SHALL REPLACE ANY DIRTY FILTERS, AS NEEDED. TEST AND BALANCE REPORT TO BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR.

HVAC PIPING GENERAL NOTES

- CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE (OR TYPE 1" HARD DRAWN COPPER WHEN IN PLENUM) AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED. CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION. MINIMUM DRAIN SIZE SHALL BE 3/4". CONDENSATE LINE SHALL BE SLOPED AS REQUIRED BY CODE.
- ALL REFRIGERANT PIPE SHALL BE NITROGENIZED ACR COPPER TUBE. SIZE, INSULATE, AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH AN OUTER ALUMINUM JACKET.
- PROVIDE UNIONS, FLANGES OR COUPLINGS AT CONNECTION TO ALL VALVES AND EQUIPMENT. DO NOT USE DIRECT WELDED OR THREADED CONNECTIONS TO VALVES, EQUIPMENT OR OTHER APPARATUS.
- PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
- MECHANICAL CONTRACTOR SHALL PROVIDE PRE-PRINTED COLOR-CODED PIPE LABELS WITH 1-1/2" HIGH LETTERING INDICATING SERVICE AND FLOW DIRECTION. ALL PIPING TO MATCH EXISTING FACILITIES STANDARD (IF APPLICABLE). OTHERWISE, PIPE LABELS SHALL MATCH THE FOLLOWING: REFRIGERANT PIPING, YELLOW BACKGROUND, BLACK LETTERING. NATURAL GAS PIPING, YELLOW BACKGROUND, BLACK LETTERING.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	THERMOSTAT / TEMP SENSOR (4'-0" AFF TO TOP)
	SUPPLY GRILLE
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	CEILING RADIATION DAMPER
	MVD (MANUAL VOLUME DAMPER)
	DIFFUSER TAG
	NECK SIZE
	AIRFLOW-(TYPICAL QUANTITY)
AHU	AIR HANDLING UNIT
HP	HEAT PUMP
EE	EXHAUST FAN
ECUH	ELECTRIC CABINET UNIT HEATER
DB	DRYER BOOSTER FAN

#	REVISIONS	DATE

INDOOR UNIT SPLIT SYSTEM SCHEDULE

MARK	NOTES	INDOOR UNIT DATA								ELECTRICAL DATA					WEIGHT
		MFR	MODEL NO.	NOM. CAP. (MBH)	SUPPLY AIR FAN					ELECTRIC HEATER (KW)	VOLTAGE/PH	MCA (A)	MOCP (A)		
					SA (CFM)	OA (CFM)	ESP (IN. W.C.)	FLA	HP						
AHU-1	1-7	GOODMAN	AWST18	18	600	-	0.2	2.6	1/3	3	230/1	18.9	20	84	
AHU-2	1-7	GOODMAN	AWST24	24	800	-	0.3	2.6	1/3	5	230/1	28.3	30	84	
AHU-3	1-7	GOODMAN	AWST30	30	1000	-	0.3	3.8	1/2	5	230/1	29.8	30	109	

- NOTES:
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7
- FACTORY DISCONNECT.

PROVIDE 7-DAY PROGRAMMABLE CONTROLS W/ STANDARD WALL THERMOSTAT.

MERV-8 PRIMARY FILTERS - THROW-AWAY TYPE.

REFRIGERANT LINESET - SIZE, INSULATE, & ROUTE PIPING PER MANUFACTURER'S INSTRUCTIONS. PENETRATE THRU WALL SEALED WEATHERTIGHT.

SECONDARY CONDENSATE OVERFLOW DRAIN PAN WITH UL 508 WATER LEVEL DETECTION DEVICE (EC TO PROVIDE SEPARATE CIRCUIT) TO SHUTOFF EQUIPMENT UPON ACTIVATION.

PROVIDE WALL MOUNT BRACKET.

PROVIDE FILTER RACK.

OUTDOOR UNIT SPLIT SYSTEM SCHEDULE

MARK	NOTES	OUTDOOR UNIT DATA										WEIGHT
		MFR	MODEL NO.	REFRIG. TYPE	REFRIG. COOLING PERFORMANCE		REFRIG. HEATING PERFORMANCE		ELECTRICAL DATA			
					NOM. CAP. (MBH)	SEER2	NOM. CAP (MBH)	HSPF2	VOLTAGE/PH	MCA	MOCP	
HP-1	1-3	GOODMAN	GLZS4MA18	R32	18	14.5	18	7.5	230/1	11.4	15	(LBS)
HP-2	1-3	GOODMAN	GLZS4MA24	R32	24	14.3	24	7.5	230/1	13.8	20	175
HP-3	1-3	GOODMAN	GLZS4MA30	R32	30	15.2	30	7.8	230/1	17	25	189

- NOTES:
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- PROVIDE 4" CONCRETE HOUSEKEEPING PAD.

EC TO PROVIDE ELECTRICAL DISCONNECT.

SCROLL COMPRESSOR.

FAN SCHEDULE

MARK	NOTES	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	FAN DATA					ELECTRICAL DATA				WEIGHT
						TYPE	AIRFLOW	RPM	ESP	MOTOR DATA	VOLTS	PHASE	MCA	MOC	
							(CFM)		(IN. W.C.)	(HP)			(A)	(A)	
EF-1	1-5	BROAN	XB50	EXHAUST	APARTMENT BATHROOMS	CEILING MOUNT	50	-	0.1	5.1W	115	1	-	-	12.5
DBF-1	1, 2, 4-12	FANTECH	DEDPV705	DRYER EXHAUST	APARTMENT	INLINE	150	2600	0.2	78W	120	1	-	-	23

- NOTES:
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12
- FACTORY MOUNTED DISCONNECT.

GRAVITY OPERATED DAMPER.

PROVIDE RADIATION DAMPER.

EC TO PROVIDE WALL SWITCH.

FAN SHALL RUN CONTINUOUSLY WHILE BUILDING IS OCCUPIED.

UL705 CERTIFIED.

EC TO PROVIDE OUTLET WITHIN 4' OF FAN.

PLUG TYPE DISCONNECT.

UL705 CERTIFIED.

PRESSURE SWITCH, THERMAL SHUTDOWN, LED WARNING PANEL

LOCATE WARNING PANEL ABOVE DRYER IN VISIBLE LOCATION.

MC SHALL PROVIDE PERMANENT LABEL INDICATING TOTAL EQUIVALENT LENGTH .

ELECTRIC UNIT HEATER SCHEDULE

MARK	NOTES	MANUFACTURER	MODEL NO.	MOUNTING	ELECTRICAL DATA			
					CAPACITY (KW)	VOLTS	PHASE	AMPS
ECUH-1	1-5	QMARK	CWH1202DSF	WALL	2	240	1	8.3

- NOTES:
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- FACTORY MOUNTED DISCONNECT AND THERMOSTAT.

PROVIDE SUMMER TIME SWITCH.

PROVIDE SEMI-RECESSED MOUNTING FRAME.

MOUNT HEATER @ 24" A.F.F.

U.L. LISTED.

AIR TERMINAL SCHEDULE (GRILLES, REGISTERS AND DIFFUSERS)

MARK	NOTES	MANUFACTURER	MODEL NO.	AIR TERMINAL TYPE	NECK SIZE	FACE SIZE	MATERIAL	MAX APD (IN. W.C.)	MAX NC
					Ø (IN.)	(CFM)			
SG-1	1-4	PRICE	540	RESIDENTIAL SUPPLY GRILLE	SEE PLANS	12"x4"	STEEL	0.10	25
SG-2	1-4		540	RESIDENTIAL SUPPLY GRILLE	SEE PLANS	10"x4"	STEEL		
TG-1	1-3		530	RESIDENTIAL RETURN GRILLE	SEE PLANS	14"x8"	STEEL		

1 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)

ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF
PRIMARY BEDROOM	288	12	36
LIVING/DINING ROOM	578	23	96
TOTAL	866	35	132

2 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)

ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF
PRIMARY BEDROOM	269	11	54
BEDROOM #2	212	8	36
LIVING/DINING ROOM	562	22	96
TOTAL	1043	42	186

3 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)

ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF
PRIMARY BEDROOM	222	9	36
BEDROOM #2	169	7	36
BEDROOM #3	169	7	36
LIVING/DINING ROOM	639	26	96
TOTAL	1199	48	204



- PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE:

CLIENT:
The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

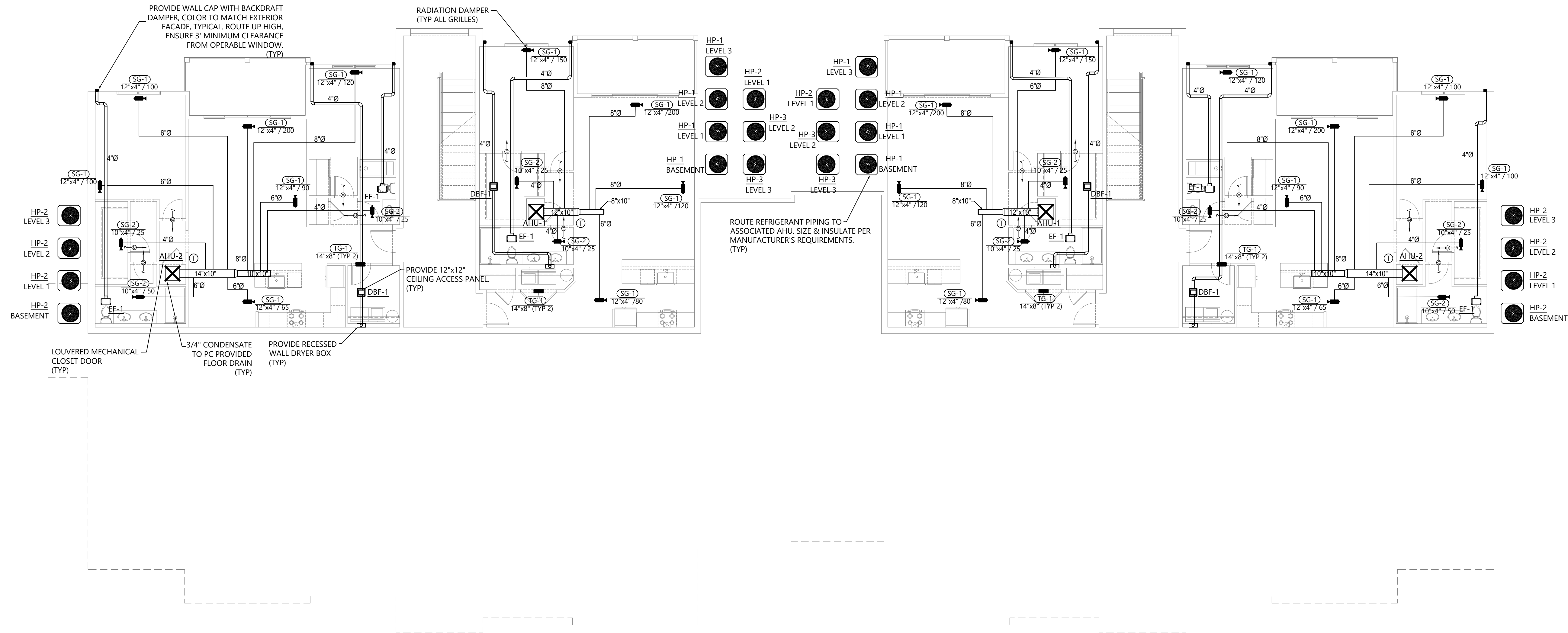
DWG DESCRIPTION:

MECHANICAL
SCHEDULES

SHEET #:

M-01

WILDE # 24-125



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - BASEMENT
1/8"=1'-0"

- PRELIMINARY -
NOT FOR CONSTRUCTION

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Hendersonville, NC 28792
Luis Graef: President



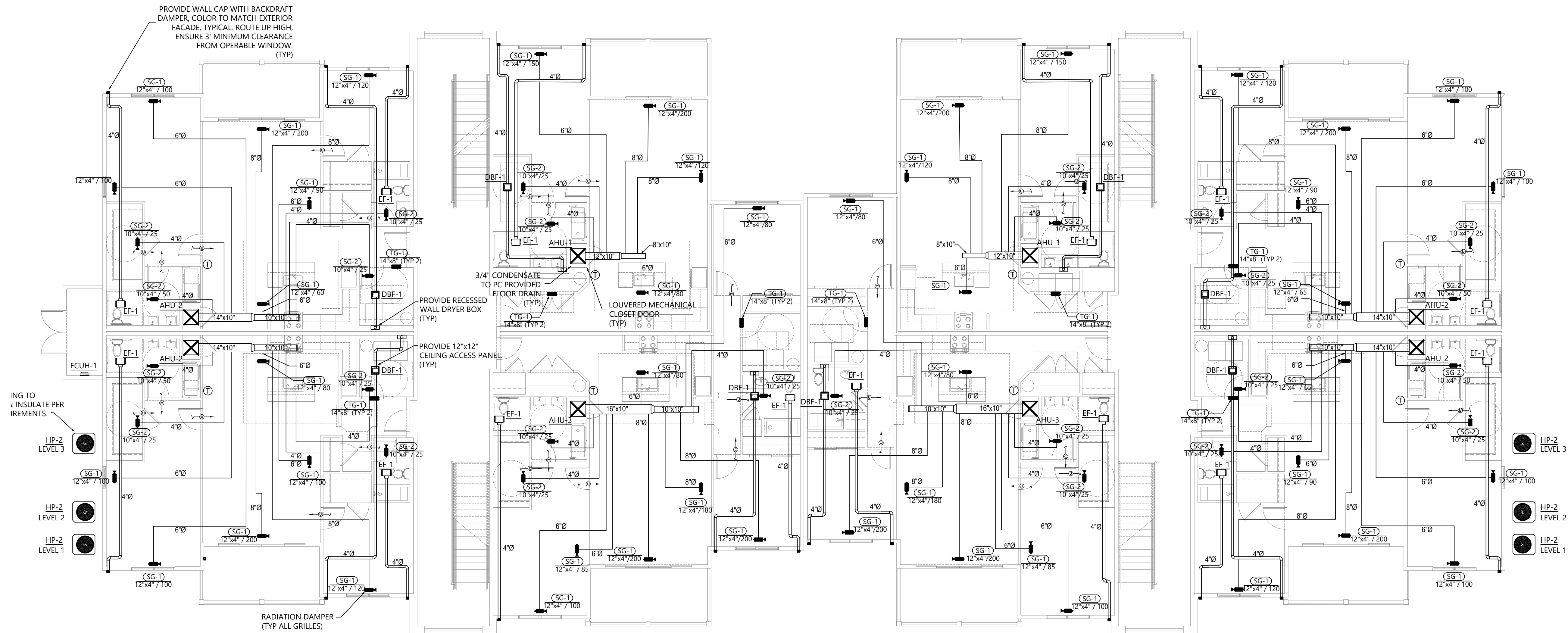
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DESCRIPTION:
MECHANICAL PLAN -
BASEMENT -
BUILDINGS 5 & 7

SHEET #:
M-1



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - FIRST FLOOR
1/8"=1'-0"

- PRELIMINARY -
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Hendersonville, NC 28792
Luis Graef, President



PROJECT:

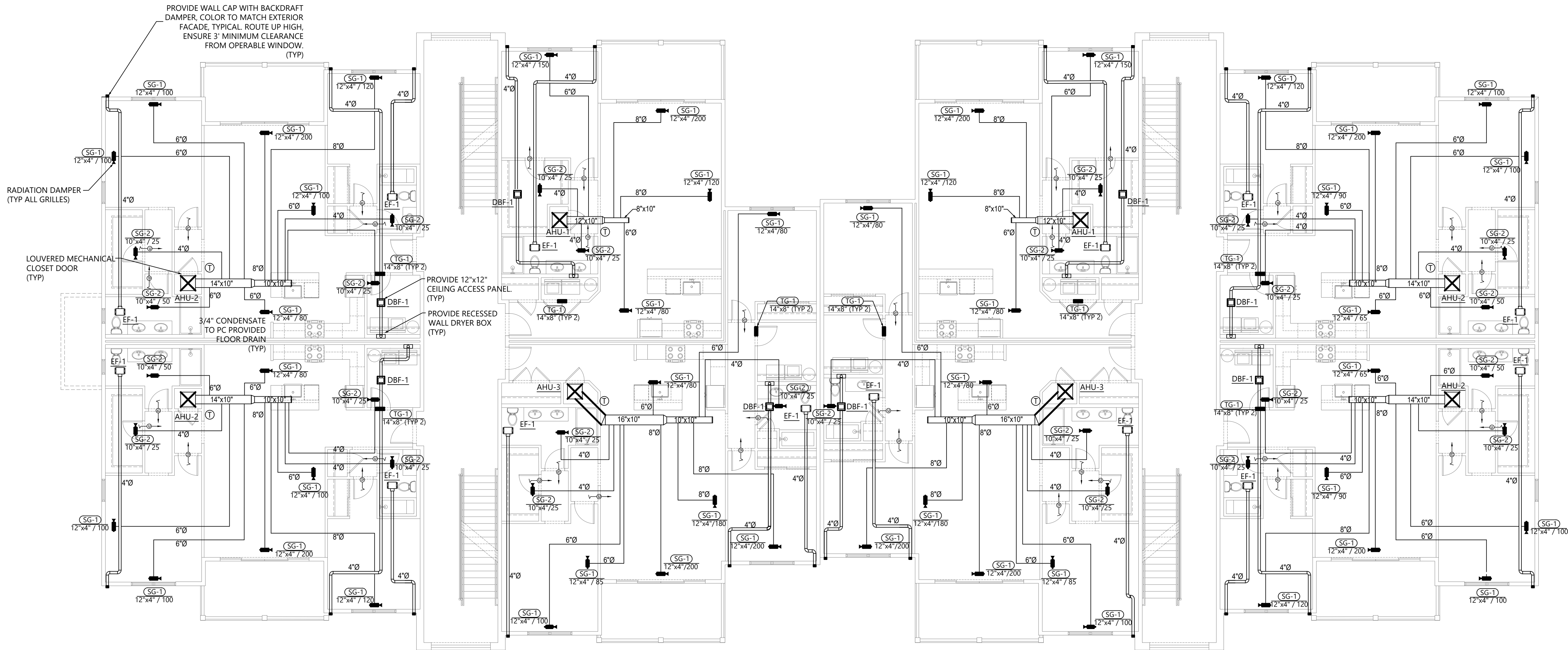
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DESCRIPTION:
MECHANICAL PLAN -
FIRST FLOOR -
BUILDINGS 5 & 7

SHEET #:
M-2



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - SECOND FLOOR
1/8"=1'-0"

- PRELIMINARY -
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Hendersonville, NC 28792
Luis Graef, President



PROJECT:

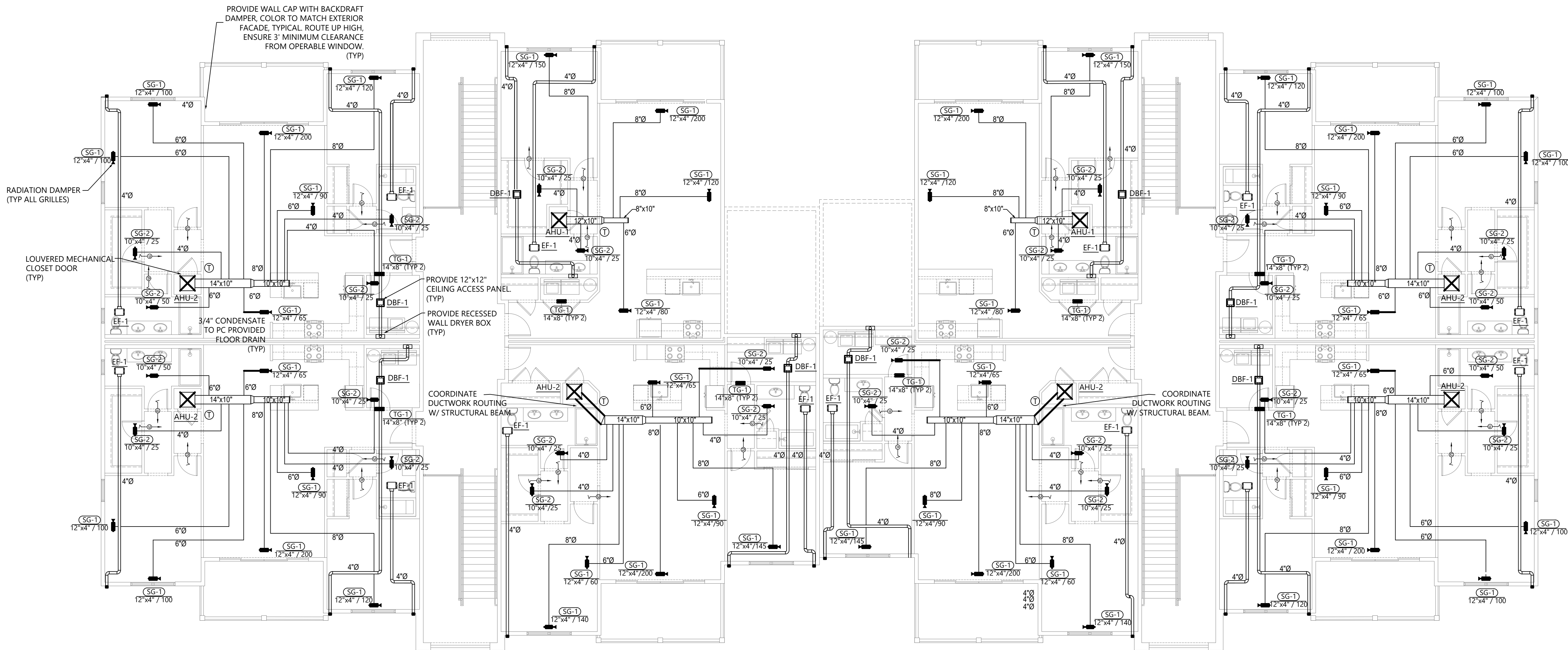
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Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DESCRIPTION:
MECHANICAL PLAN -
SECOND FLOOR -
BUILDINGS 5 & 7

SHEET #:
M-3



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - THIRD FLOOR
1/8" = 1'-0"

- PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE

CLIENT:
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341 N Main Street
Hendersonville, NC 28792
Luis Graef, President



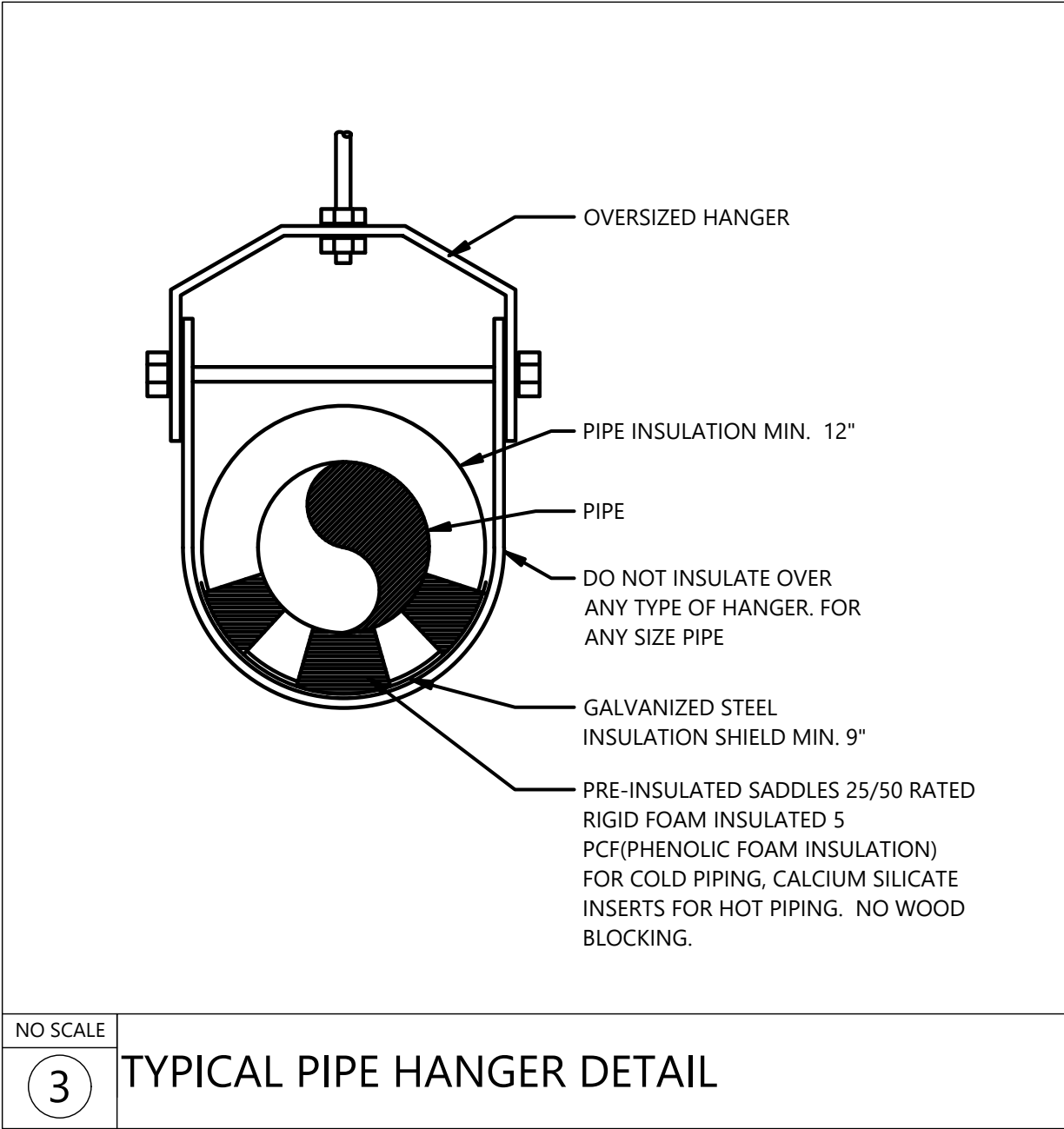
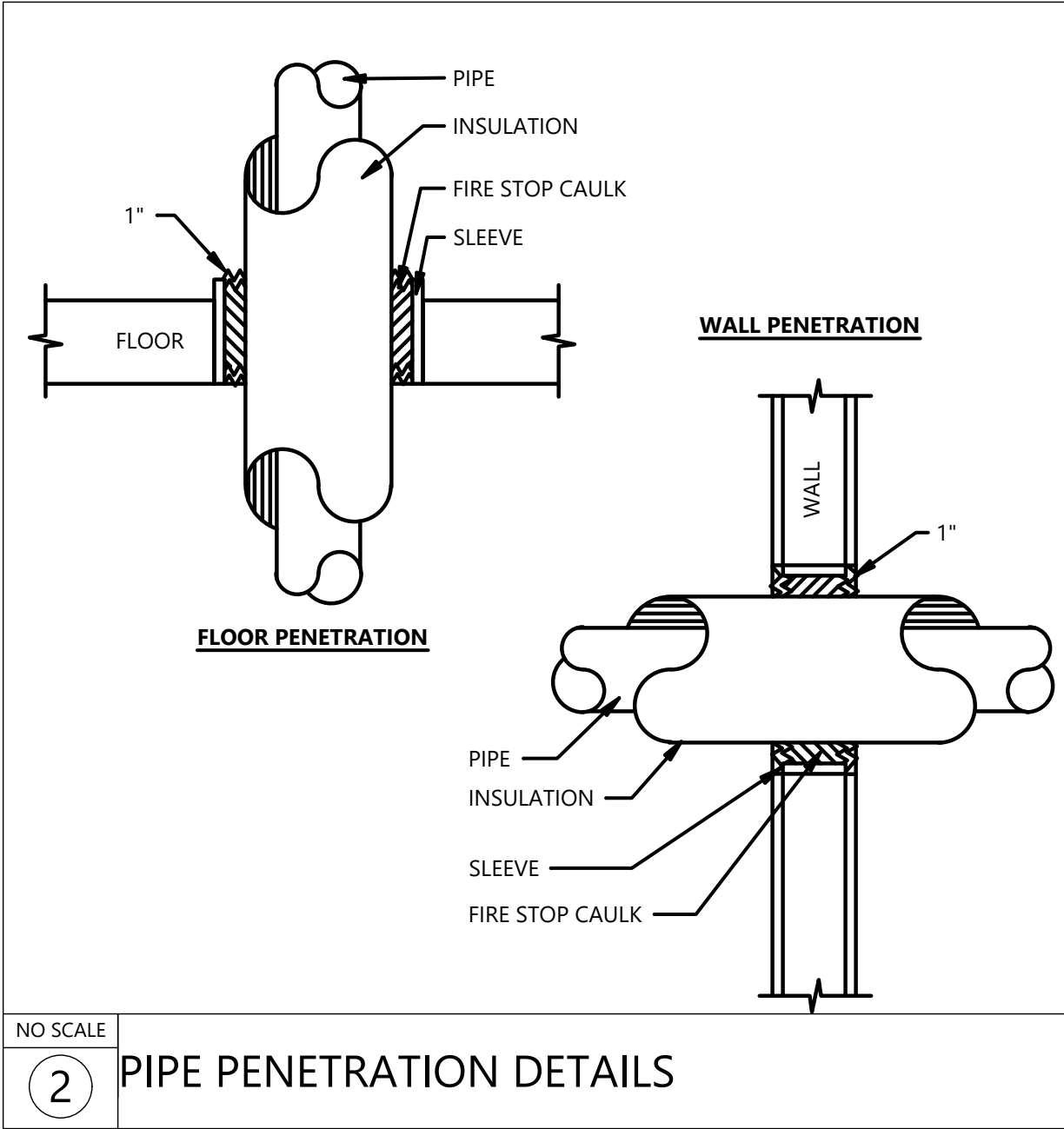
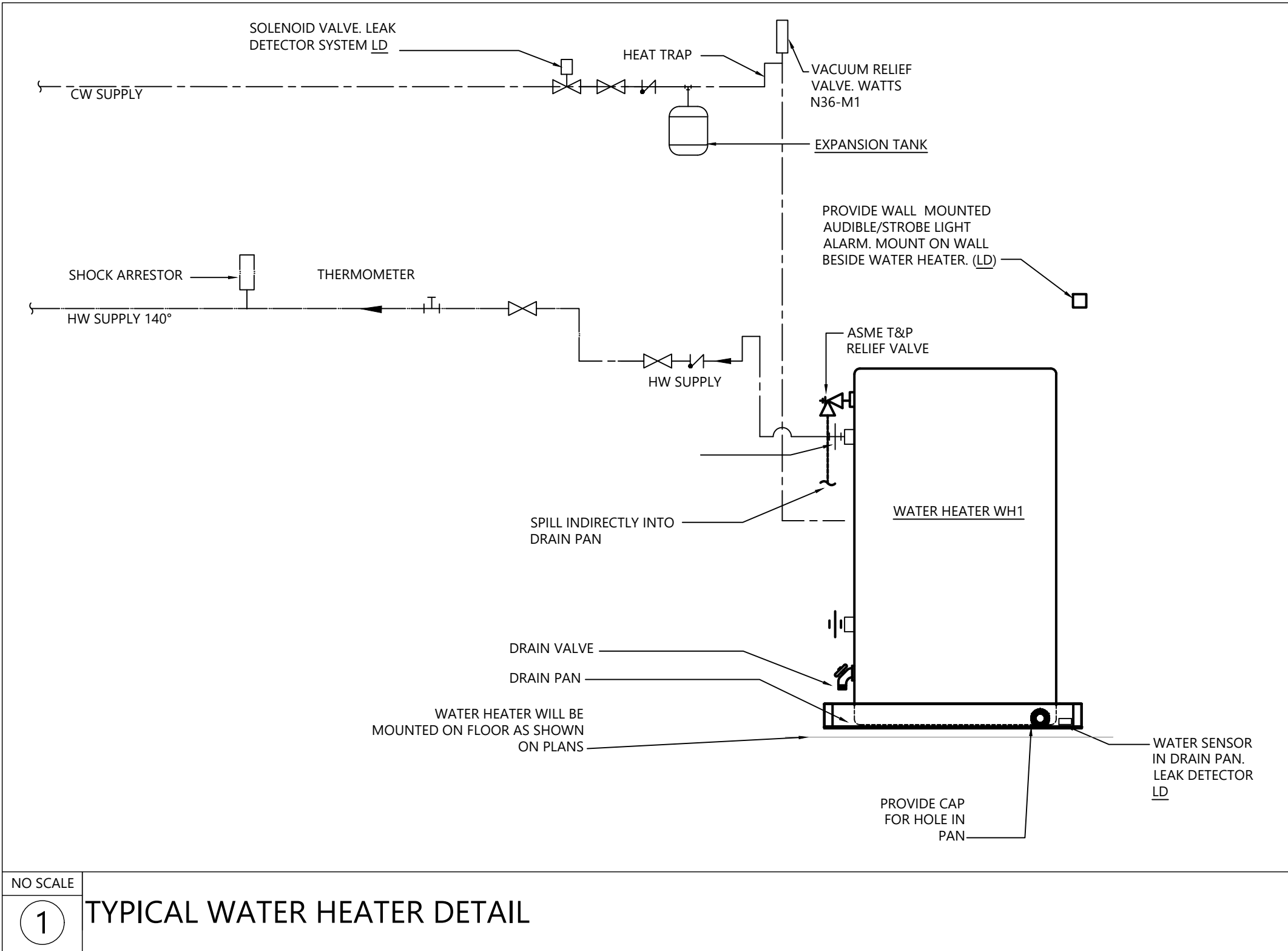
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DESCRIPTION:
MECHANICAL PLAN -
THIRD FLOOR -
BUILDINGS 5 & 7

SHEET #:
M-4



PLUMBING FIXTURE SCHEDULE															
TAG		MANUFACTURER	MODEL	WATER CONSUMPTION	FINISH	ADA	MOUNTING	CONNECTION	OPERATION	ACCESSORIES	RUNOUT PIPE SIZE				COMMENTS
											CW	HW	W	V	
WATER CLOSET	WC-1 BOWL	AMERICAN STANDARD	COLONY 3/250D.104	1.28 GPF EPA "WATERSENSE"	WHITE VITREOUS CHINA	YES	FLOOR	TANK	MANUAL	SEAT: BEMIS LUSTRA K4650	3/4"	-	3"	2"	-
LAVATORY	LAV-1 BOWL	AMERICAN STANDARD	RELIANT DROP-IN/0476228	-	WHITE VITREOUS CHINA	YES	DROP IN	4" CENTERS	FAUCET	-	1/2"	1/2"	1-1/4"	1-1/4"	-
	LAV-1 FAUCET	KOHLER	BELLERA/K-27378-4N	.5 GPM EPA "WATERSENSE"	POLISHED CHROME	YES	DECK	4" CENTERS	MANUAL	ASSE 1070 THERMOSTATIC MIXING VALVE					-
KITCHEN SINK	SK-1 BOWL	KOHLER	STACCATO/K-3362-1	-	STAINLESS STEEL	YES	DROP IN	SINGLE HOLE	FAUCET	-	-	-	1-1/2"	1-1/2"	-
	SK-1 FAUCET	KOHLER	CRUE/K-22972	1.5 GPM EPA "WATERSENSE"	POLISHED CHROME	YES	DECK	SINGLE HOLE	MANUAL	-	1/2"	1/2"	-	-	-
SHOWER	SH-1 FAUCET	KOHLER	PURIST/K-22170-G	1.75 GPM EPA "WATERSENSE"	POLISHED CHROME	-	WALL	-	MANUAL	PRESSURE BALANCED SHOWER VALVE	1/2"	1/2"	2"	1-1/2"	-
WALL CLEANOUT	WCO	ZURN	Z1446	-	CAST IRON	-	WALL	-	MANUAL	-	-	-	4"	2"	-
FLOOR DRAIN	FD-1	ZURN	Z4158	-	CAST IRON	-	FLOOR	-	-	-	-	-	4"	2"	-

ELECTRIC TANK WATER HEATER SCHEDULE							
Tag	Service	Location	HEATING INPUT (KW)	Volt/Ph	Mfg/Model #	Gallons	Notes
EW-H-1	LAUNDRY CLOSET	ON FLOOR	9.6KW	240V/1ph	BRADFORD WHITE/ENS50T-6	50	-

PLUMBING LEGEND		
NEW PIPING	ABBR.	DESCRIPTION
---	CW	COLD WATER PIPING
---	HW	HOT WATER PIPING
---	HWR	HOT WATER RETURN PIPING
---	W	SANITARY WASTE PIPING
---	V	SANITARY VENT PIPING
---	D	DRAIN
---	-	ELBOW DOWN
---	-	ELBOW UP
---	-	PIPE CONTINUES
---	-	BALL VALVE
---	CV	CHECK VALVE
---	FCO	FLOOR CLEAN OUT
---	WCO	WALL CLEAN OUT
---	YCO	YARD CLEAN OUT
---	HB	HOSE BIBB/WALL HYDRANT
---	SA	SHOCK ARRESTOR - SUFFIX INDICATES PDI SIZE
---	-	THERMOMETER
---	-	PRESSURE GAUGE
ADDITIONAL ABBREVIATIONS		
ABV	ABOVE	KW KILOWATT
AFF	ABOVE FINISHED FLOOR	LAV LAVATORY
AFG	ABOVE FINISHED GRADE	MBH 1,000 BTUH
BAS	BUILDING AUTOMATION SYSTEM	MFG MANUFACTURER
BEL	BELOW	MH MOUNTING HEIGHT
BFF	BELOW FINISHED FLOOR	PH PHASE
BTUH	BRITISH THERMAL UNIT / HOUR	PSI POUNDS PER SQUARE INCH
CFH	CUBIC FEET PER HOUR	SF SQUARE FEET
CLG	CEILING	SFU SUPPLY FIXTURE UNITS
CONT	CONTINUATION	T&P TEMPERATURE AND PRESSURE
DFU	DRAINAGE FIXTURE UNIT (WASTE)	TYP TYPICAL
DN	DOWN	UR URINAL
(E)	EXISTING	VB VACUUM BREAKER
EX	EXISTING	VLV VALVE
FEE	FINISHED FLOOR ELEVATION	VTR VENT THRU ROOF
FIN	FINISH	WC WATER COLUMN
FL	FLOOR	EC ELECTRICAL CONTRACTOR
FR	FROM	GC GENERAL CONTRACTOR
FU	FIXTURE UNITS	MC MECHANICAL CONTRACTOR
GPC	GALLONS PER CYCLE (METERING)	PC PLUMBING CONTRACTOR
GPF	GALLONS PER FLUSH	
GPM	GALLONS PER MINUTE	
HP	HORSE POWER	
INV	INVERT ELEVATION	

PLUMBING MATERIALS AND NOTES		
DOMESTIC WATER PIPING:		
1. DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: PROVIDE TYPE 1" HARD DRAWN SEAMLESS COPPER TUBING (ASTM B 88) AND CAST COPPER ALLOY FITTINGS (ASME B16.18). JOINTS 2" AND SMALLER SHALL BE LEAD FREE 95-5 TIN/SILVER SOLDER JOINTS (ASTM B 32).		
2. STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.		
3. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE INSULATION SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTUH x SQ. FT. FOLLOW SCHEDULE BELOW:		
SERVICE TYPE	PIPE SIZES	INSULATION THICKNESS
DOMESTIC HOT WATER & CIRCULATION	1/2" - 1-1/2"	1"
DOMESTIC HOT WATER & CIRCULATION	1-1/2" - 4"	1-1/2"
DOMESTIC COLD WATER	1/2" - 1-1/4"	1/2"
DOMESTIC COLD WATER	1-1/2" - 4"	1"
4. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED. PROVIDE PVC JACKET FOR EXPOSED PIPING IN MECHANICAL ROOMS. INSULATION SHALL BE CONTINUOUS AT ALL HANGERS. PROVIDE GALVANIZED STEEL SHIELD BETWEEN PIPE HANGER AND INSULATION.		
5. PROVIDE TWO-PIECE, BRONZE OR BRASS BODY, FULL PORT, 600 PSI WOG, BALL TYPE SHUT-OFF VALVES WITH BLOW-OUT PROOF STEMS AND ADJUSTABLE PACKING GLANDS. VALVES SHALL BE LEAD FREE PER NSF 61, ANNEX G REQUIREMENTS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.		
6. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.		
7. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY, WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.		
8. DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED AND PROVED WATERTIGHT UNDER A WATER PRESSURE OF NO LESS THAN THE WORKING PRESSURE OF THE SYSTEM, OR AN AIR TEST OF NO LESS THAN ONE-HUNDRED (100) PSI. THIS PRESSURE SHALL BE HELD FOR AT LEAST FIFTEEN (15) MINUTES. WATER USED IN TESTING SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.		
SANITARY WASTE / VENT PIPING:		
1. SANITARY WASTE BELOW GRADE: PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PVC PIPE IS <u>NOT</u> APPROVED.		
2. SANITARY WASTE/VENT ABOVE GRADE: PROVIDE SERVICE WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET AND STAINLESS STEEL CLAMP JOINTS (CISPI 310).		
3. SLOPE SANITARY WASTE PIPING AT 1/4" PER FOOT MINIMUM FOR PIPING 2-1/2" AND SMALLER AND 1/8" PER FOOT MINIMUM FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE.		
4. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, REMOVABLE P-TRAPS, MATCHING STOPS AND ESCUTCHEONS FOR ALL LAVATORIES.		
5. SANITARY WASTE AND VENT SYSTEMS SHALL BE TESTED AND PROVED WATER TIGHT UNDER A HEAD PRESSURE OF NO LESS THAN 10 FT. THIS PRESSURE SHALL BE HELD FOR A PERIOD OF NO LESS THAN 15 MINUTES.		
6. INSULATE MECHANICAL ROOM FLOOR DRAIN BODIES, P-TRAP AND HORIZONTAL DRAIN PIPING ABOVE GRADE WITH 1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER AND JACKET.		

PLUMBING GENERAL NOTES	
GENERAL REQUIREMENTS:	
1. PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA STATE PLUMBING CODE AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.	
2. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.	
3. PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, FACILITIES CHARGES AND BOND PROPERTY ASSESSMENTS ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT.	
4. WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL PLUMBING MATERIALS AND EQUIPMENT.	
5. COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH-IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.	
6. FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.	
7. WHERE DISCREPANCIES ARE FOUND IN THE DRAWINGS AND SPECIFICATIONS THE MORE STRINGENT SHALL APPLY. CONTACT ENGINEER FOR CLARIFICATION.	
8. ALL PIPING SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA.	
9. ALL VALVES, BACKFLOW PREVENTERS, BOOSTER PUMPS, ETC. SERVING THE DOMESTIC WATER SYSTEM SHALL MEET LEAD FREE STANDARDS PER ANS/NSF 372 AND NSF 61, ANNEX G.	
10. CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.	
11. PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC.	
12. PLUMBING PIPING AND SPECIALTIES SHALL BE LOCATED CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. PLUMBING PIPING IN EXPOSED AREAS SHALL BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PROVIDE ACCESS DOORS FOR CONCEALED SPECIALTIES.	
13. DO NOT INSTALL PLUMBING PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL PLUMBING PIPING SHOWN IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.	
14. PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.	
15. ATTACH HANGERS TO STRUCTURE. HANGERS SHALL NOT ATTACH TO THE DECK.	
16. PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY WALLS, GYPSBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS.	
17. CORE DRILL THROUGH MASONRY (CMU BLOCK) WALLS FOR ALL PIPE PENETRATIONS. WHEN DRILLING OPENINGS FOR INSULATED PIPES THE OPENING'S DIAMETER SHALL BE LARGE ENOUGH FOR PIPE INSULATION TO REMAIN CONTINUOUS PASSING THROUGH THE OPENING. SEAL WATER TIGHT. PROVIDE ESCUTCHEONS IN EXPOSED FINISHED AREAS.	
18. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES, DOMESTIC WATER SYSTEM, SANITARY WASTE AND VENT SYSTEM, NATURAL GAS SYSTEM.	
PLUMBING FIXTURES AND EQUIPMENT:	
1. PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.	
2. PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.	
3. NO PRIVATE LABELED MATERIALS WILL BE ACCEPTED AS EQUALS TO PRODUCTS SPECIFIED HEREIN.	
4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS TO SPECIFIED PLUMBING FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO: PROVIDING MAINTENANCE ACCESS CLEARANCE, PIPING, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC. AND ANY MODIFICATIONS TO ASSOCIATED MECHANICAL, ELECTRICAL OR PLUMBING SYSTEMS REQUIRED BY THE EQUIPMENT'S INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.	

wilde engineering
MECHANICAL, ELECTRICAL & PLUMBING
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(704) 439-7038
NC Firm License No. P-21882

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SIGNATURE:

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The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef, President

PROJECT:
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Apartment Complex
Hendersonville, North Carolina

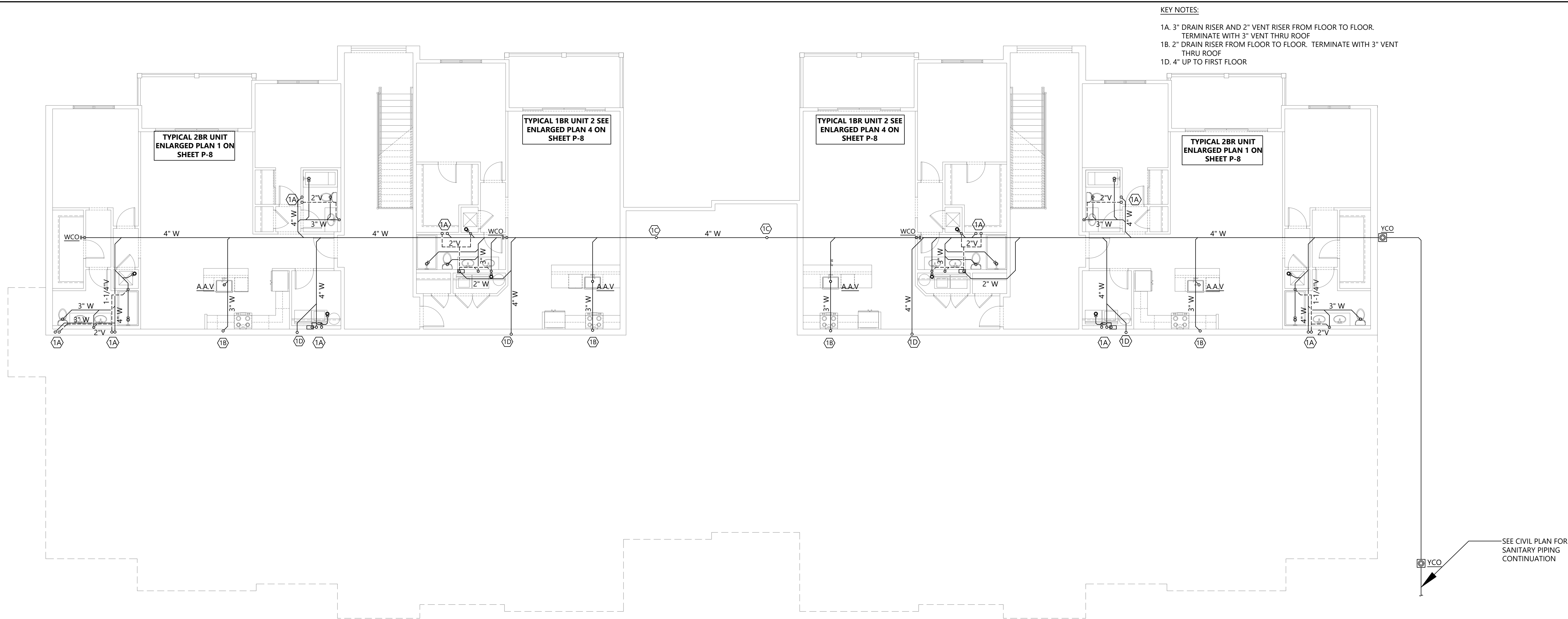
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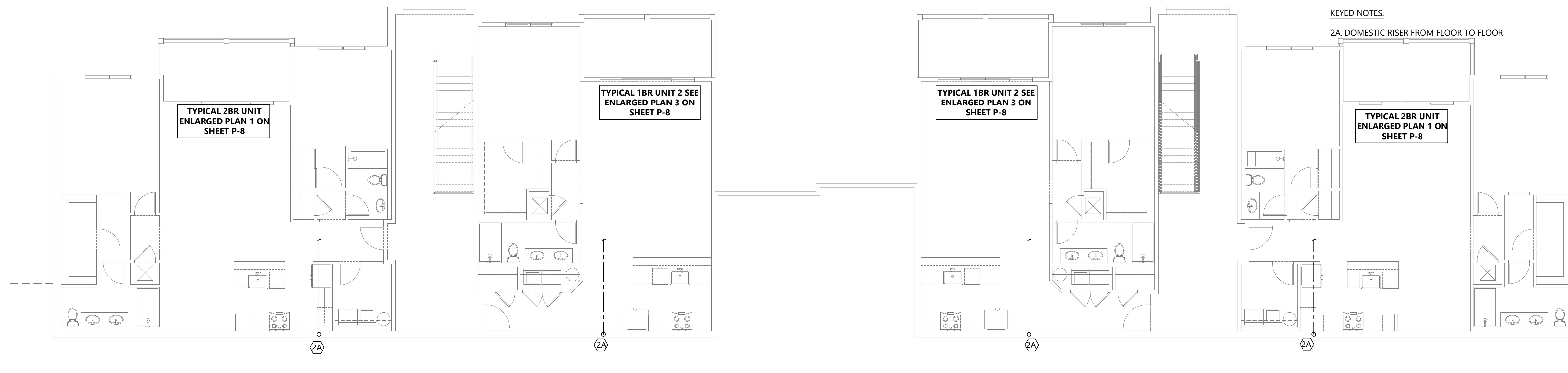
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SHEET #:
P-00

WILDE # 24-125

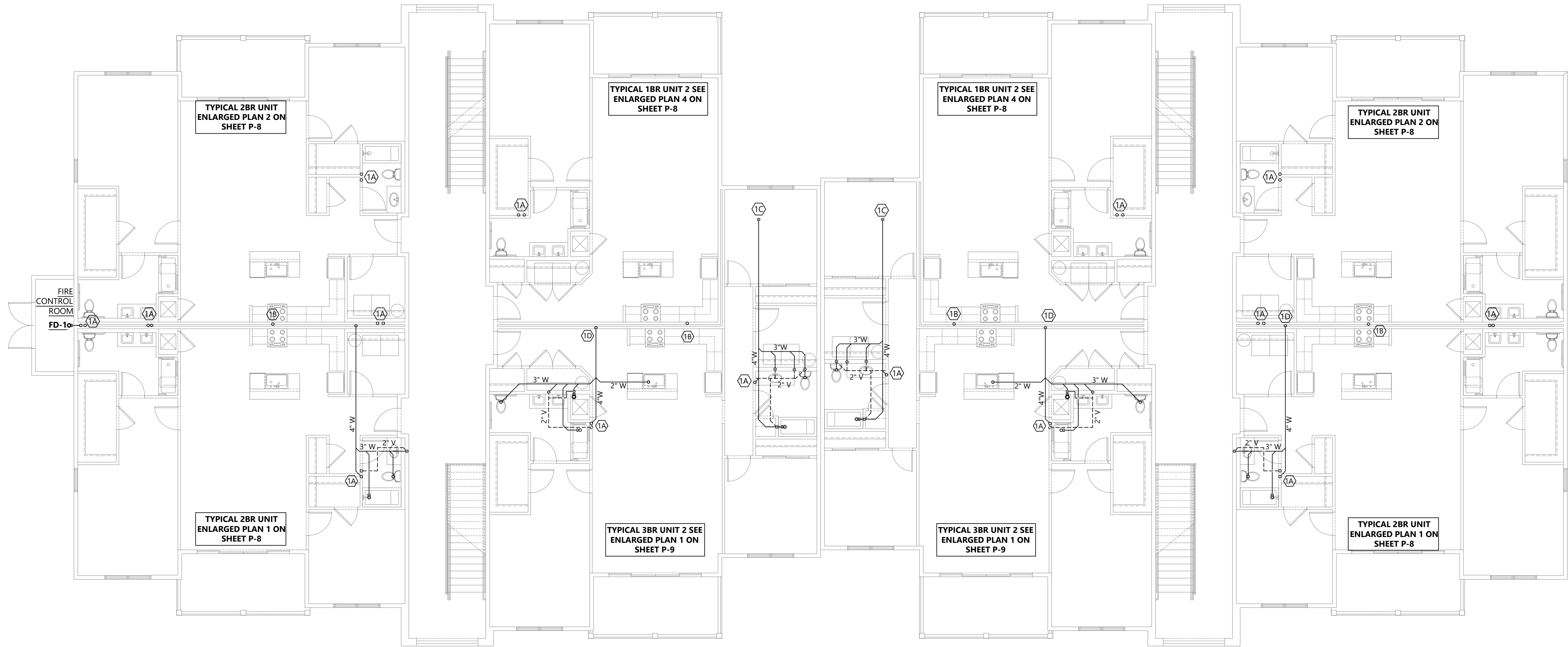


1 PLUMBING SANITARY PLAN BLDGS 5 & 7 BASEMENT
1/8"=1'-0"



2 PLUMBING SUPPLY PLAN BLDGS 5 & 7 BASEMENT
1/8"=1'-0"

#	REVISIONS	DATE



- KEYED NOTES:
- 1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT THRU ROOF.
 - 1B. 2" DRAIN RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT THRU ROOF.
 - 1C. 4" DRAIN DOWN TO BASEMENT.

1 PLUMBING SANITARY PLAN BLDGS 5 & 7 FIRST FLOOR

1/8"=1'-0"

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DWG DESCRIPTION:
**PLUMBING SANITARY
PLAN BLDGS 5 & 7
FIRST FLOOR**

SHEET #:
P-2

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#	REVISIONS	DATE

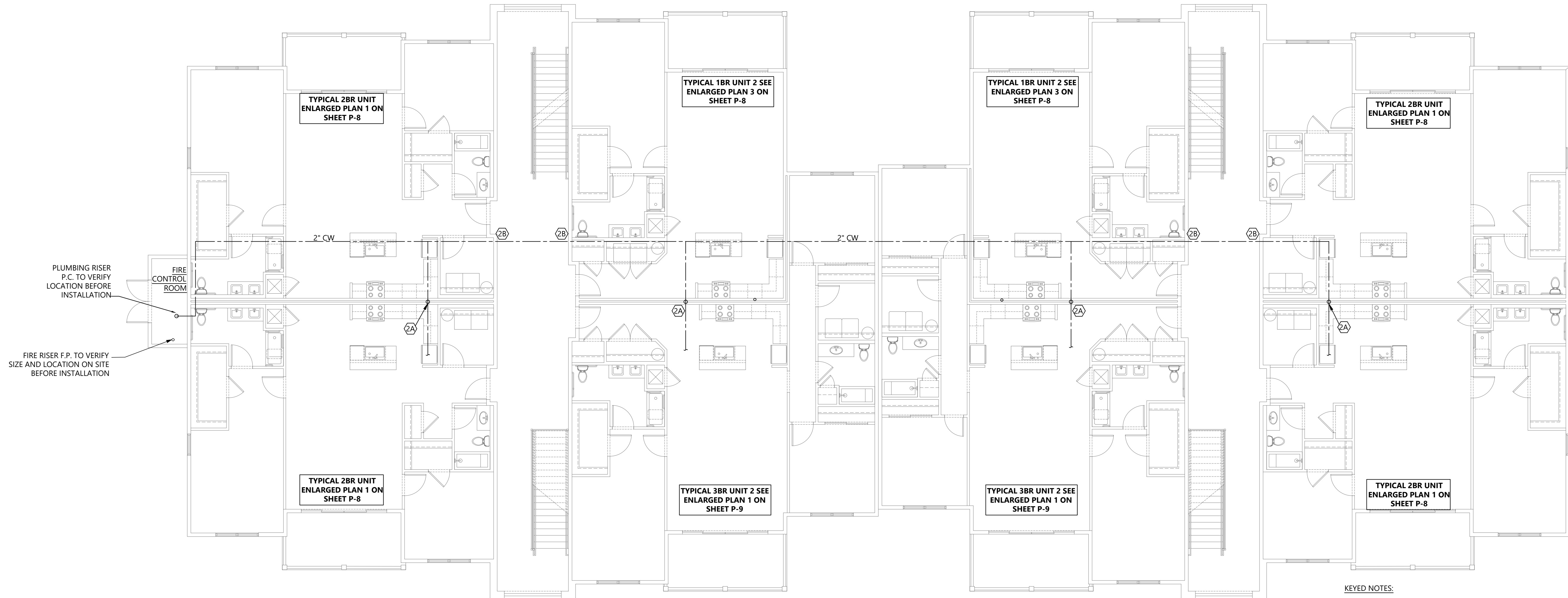
DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: JS
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DWG DESCRIPTION:
**PLUMBING SUPPLY
PLAN BLDGS 5 & 7
FIRST FLOOR**

SHEET #:

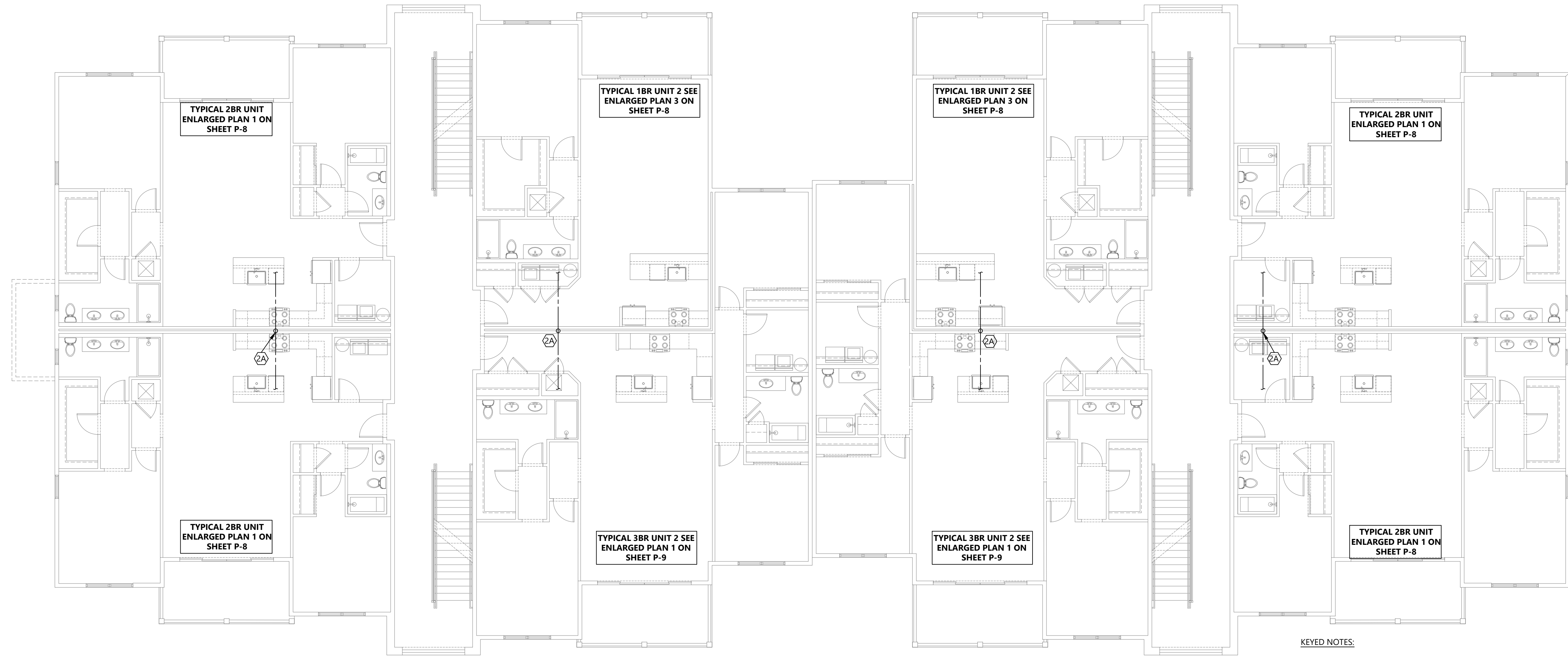
P-3

WILDE # 24-125



- KEYED NOTES:**
- 2A. DOMESTIC RISER FROM FLOOR TO FLOOR
2B. HEAT TRACE USED FOR PIPING CROSSING OVER OPEN BREEZEWAY
- KEYED NOTES:**
- 1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR.
TERMINATE WITH 3" VENT THRU ROOF
1B. 2" DRAIN RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT
THRU ROOF
1C. 4" DRAIN DOWN TO BASEMENT

1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 FIRST FLOOR
1/8" = 1'-0"



1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 SECOND FLOOR
1/8"=1'-0"

- PRELIMINARY -
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PROJECT:

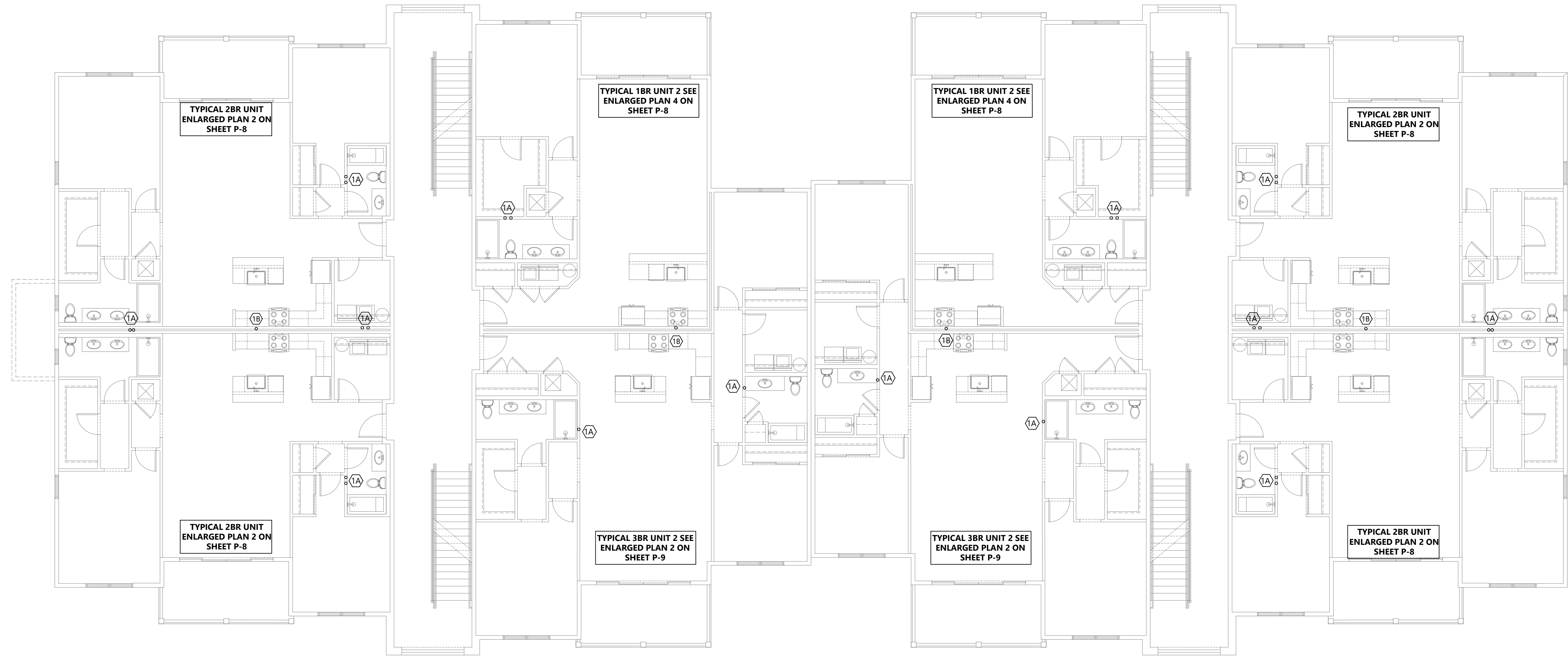
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Hendersonville, North Carolina

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DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: JS
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DWG DESCRIPTION:
**PLUMBING SUPPLY
PLAN BLDGS 5 & 7
SECOND FLOOR**

SHEET #:
P-4



1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 SECOND FLOOR
1/8"=1'-0"

- PRELIMINARY -
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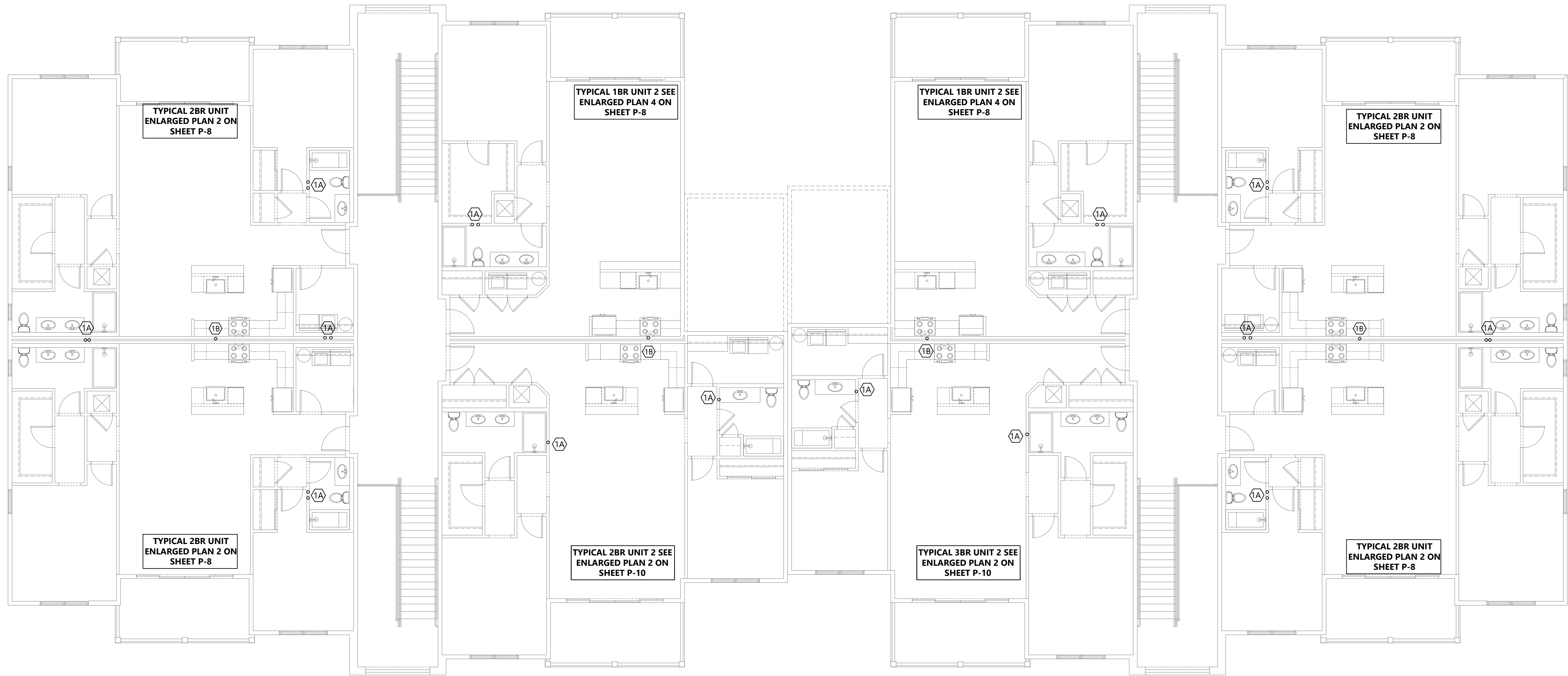
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Hendersonville, North Carolina

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DWG DESCRIPTION:
**PLUMBING SANITARY
PLAN BLDGS 5 & 7
SECOND FLOOR**

SHEET #:
P-5



KEYED NOTES:

1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR.
TERMINATE WITH 3" VENT THRU ROOF

1B. 2" DRAIN RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT
THRU ROOF

1 PLUMBING SANITARY PLAN BLDGS 5 & 7 THIRD FLOOR

1/8"=1'-0"

- PRELIMINARY -
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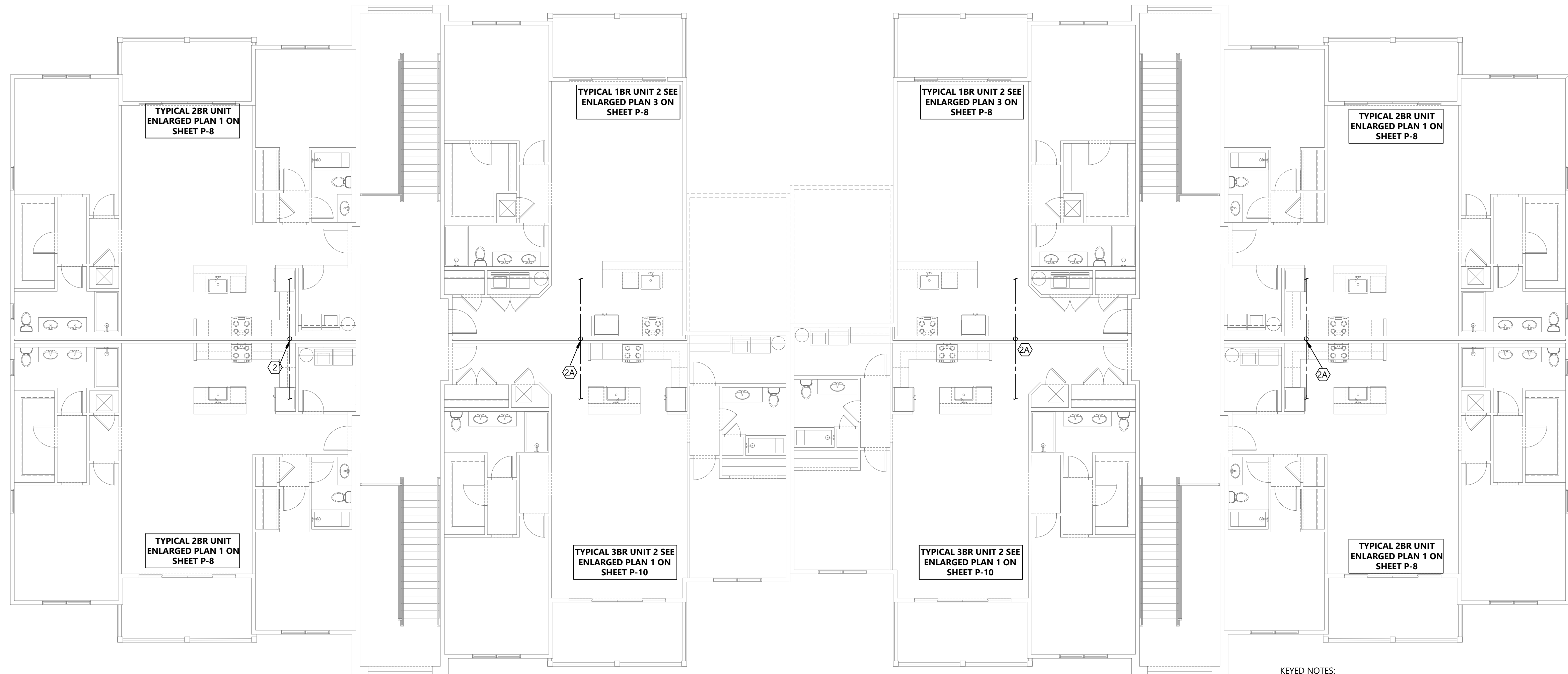
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DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
**PLUMBING SANITARY
PLAN BLDGS 5 & 7
THIRD FLOOR**

SHEET #:
P-6



KEYED NOTES:
2A. FLOOR TO FLOOR DOMESTIC RISER

1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 THIRD FLOOR
1/8"=1'-0"

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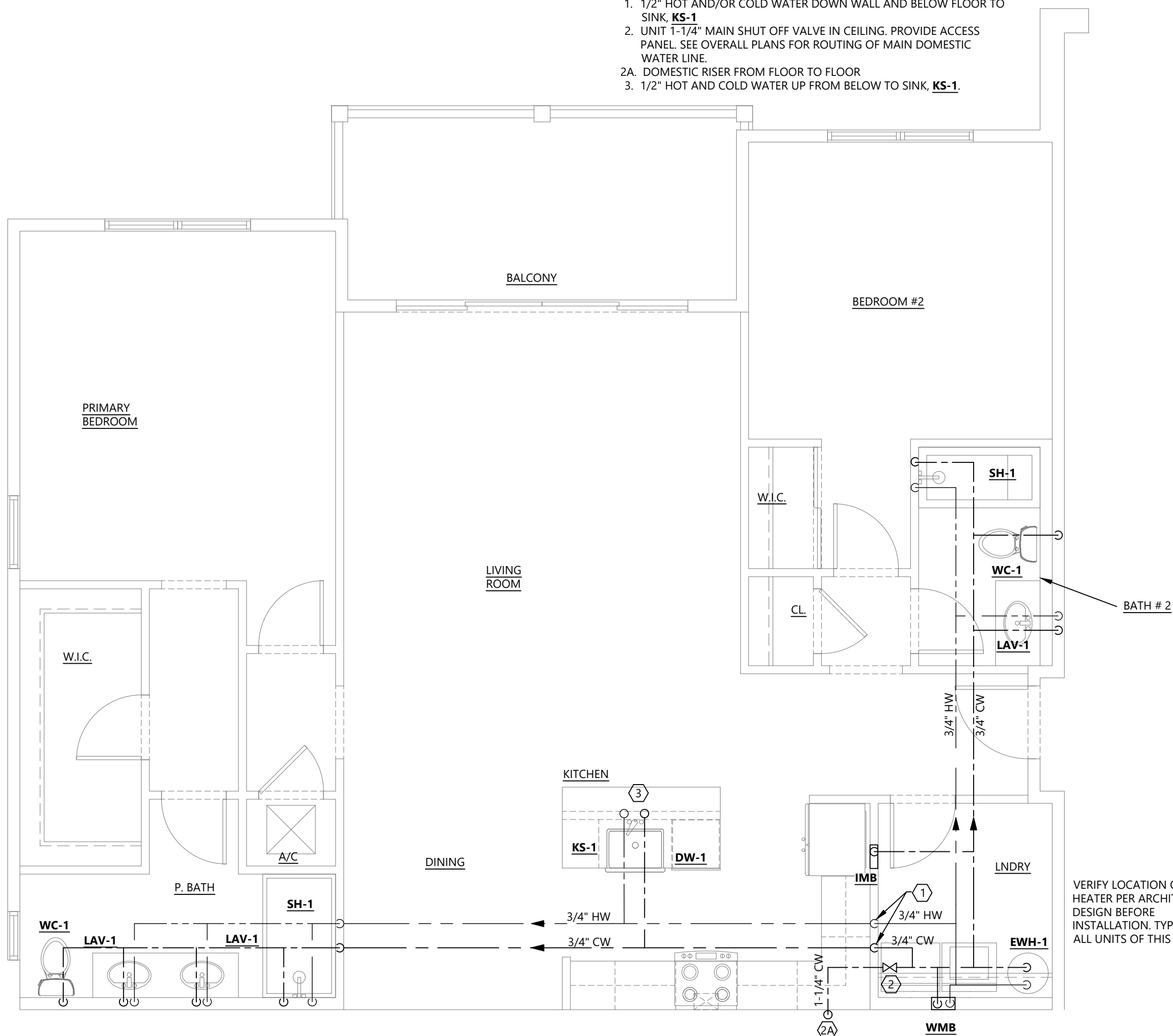
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ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: JS
CHECKED BY: JK

DWG DESCRIPTION:
**PLUMBING SUPPLY
PLAN BLDGS 5 & 7
THIRD FLOOR**

SHEET #:
P-7

KEYED NOTES:

1. 1/2" HOT AND/OR COLD WATER DOWN WALL AND BELOW FLOOR TO SINK, **KS-1**
2. UNIT 1-1/4" MAIN SHUT OFF VALVE IN CEILING. PROVIDE ACCESS PANEL. SEE OVERALL PLANS FOR ROUTING OF MAIN DOMESTIC WATER LINE.
- 2A. DOMESTIC RISER FROM FLOOR TO FLOOR
3. 1/2" HOT AND COLD WATER UP FROM BELOW TO SINK, **KS-1**.

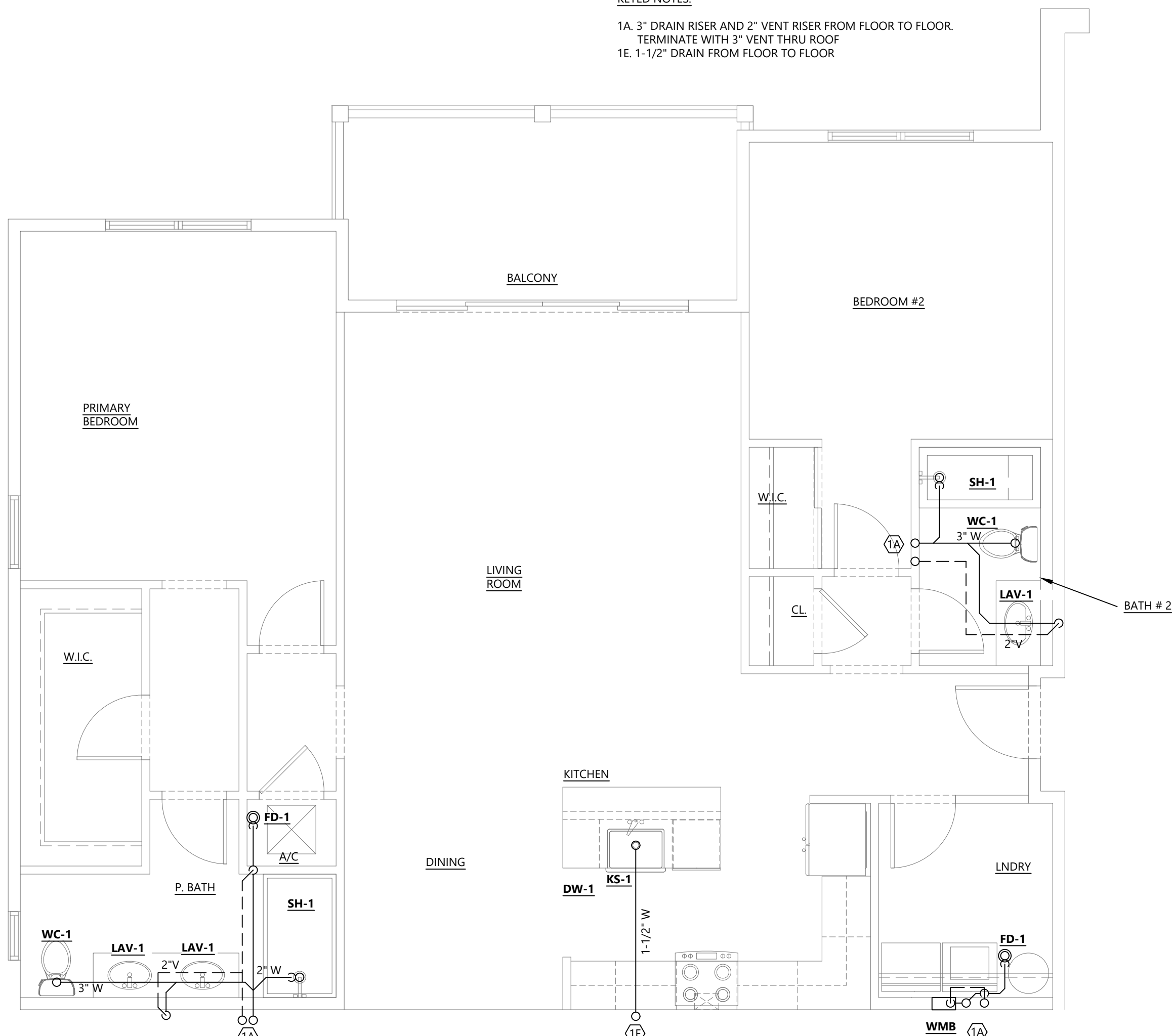


1 TYPICAL 2BR UNIT PLUMBING SUPPLY PLAN

1/4"=1'-0"

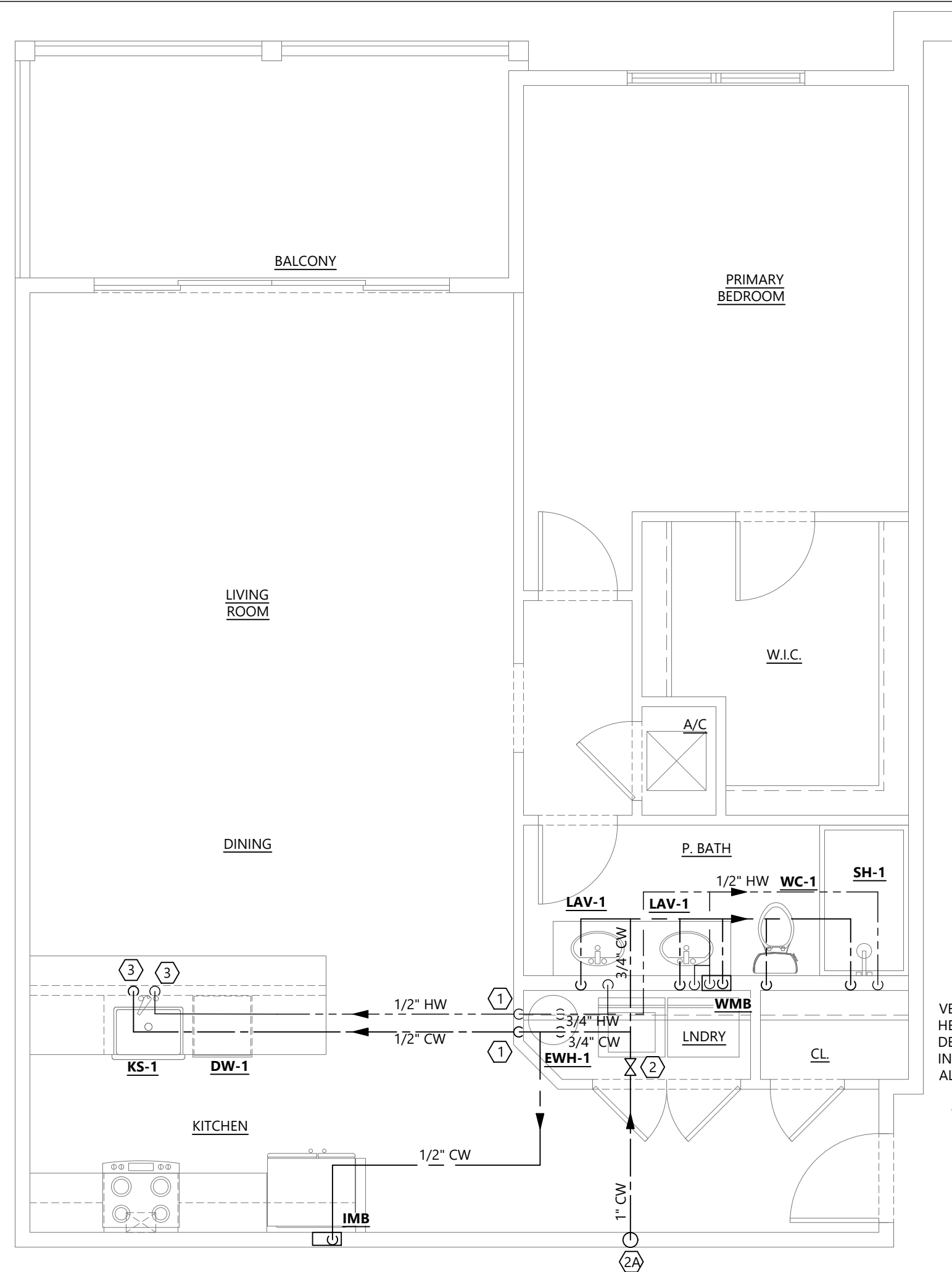
KEYED NOTES:

- 1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT THRU ROOF
- 1E. 1-1/2" DRAIN FROM FLOOR TO FLOOR



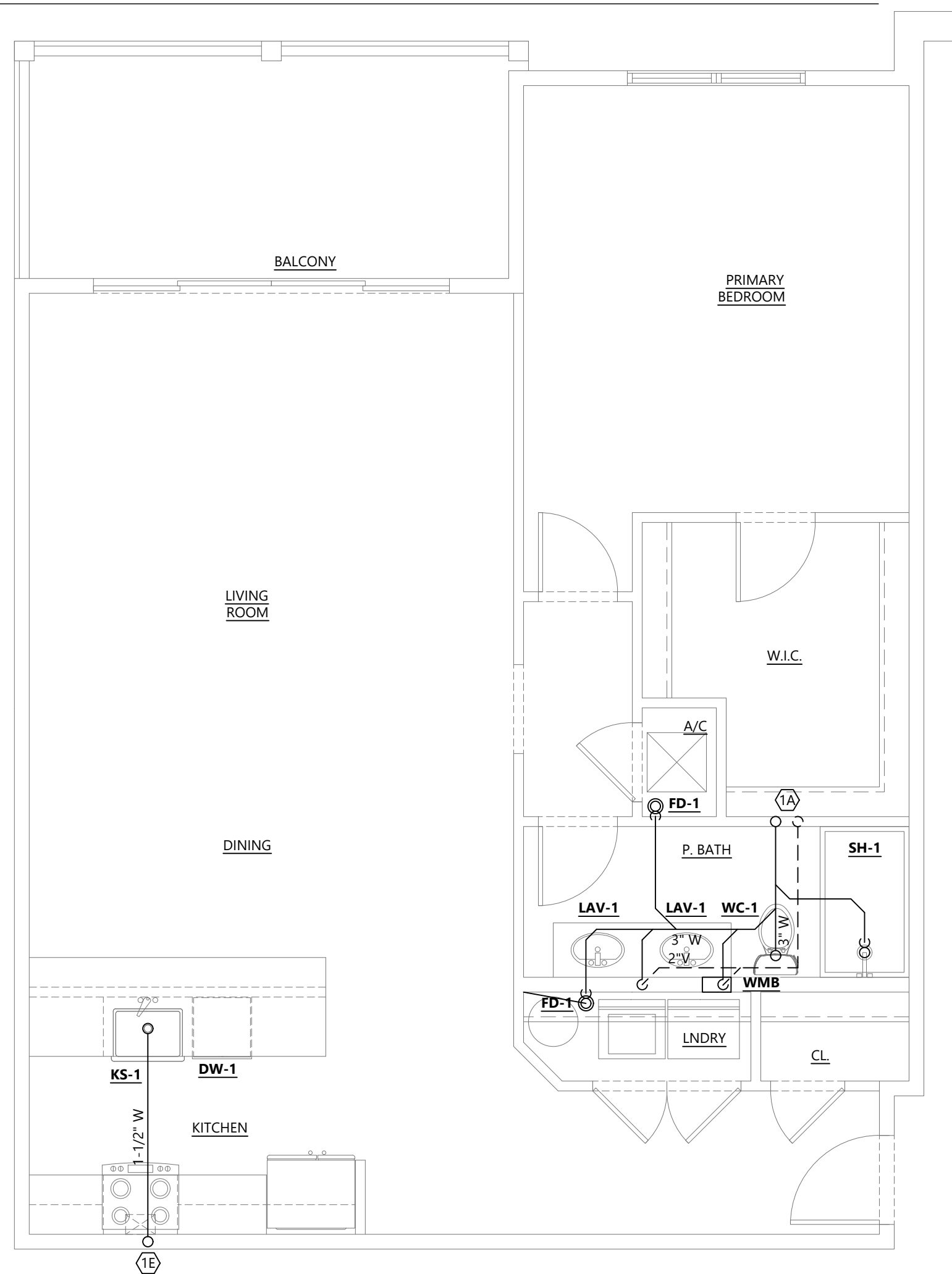
2 TYPICAL 2BR UNIT PLUMBING SANITARY PLAN

1/4"=1'-0"



3 TYPICAL 1 BR UNIT PLUMBING SUPPLY PLAN

1/4"=1'-0"



4 TYPICAL 1 BR UNIT PLUMBING SANITARY PLAN

1/4"=1'-0"

KEYED NOTES:

- 1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT THRU ROOF
- 1E. 1-1/2" DRAIN FROM FLOOR TO FLOOR

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DWG DESCRIPTION:
ENLARGED UNIT PLANS

SHEET #:
P-8

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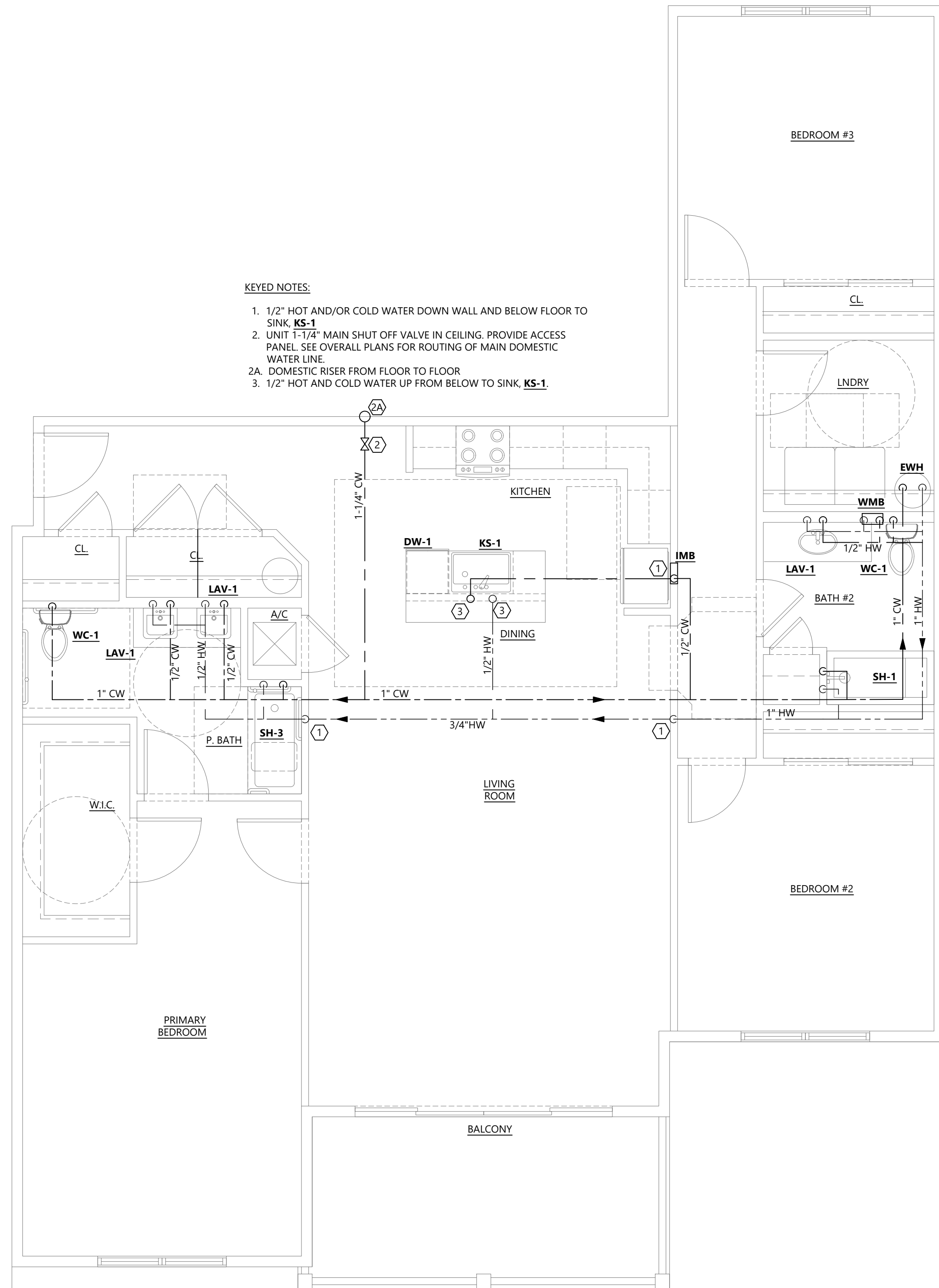
DWG DESCRIPTION:

ENLARGED UNIT
PLANS

SHEET #:

P-9

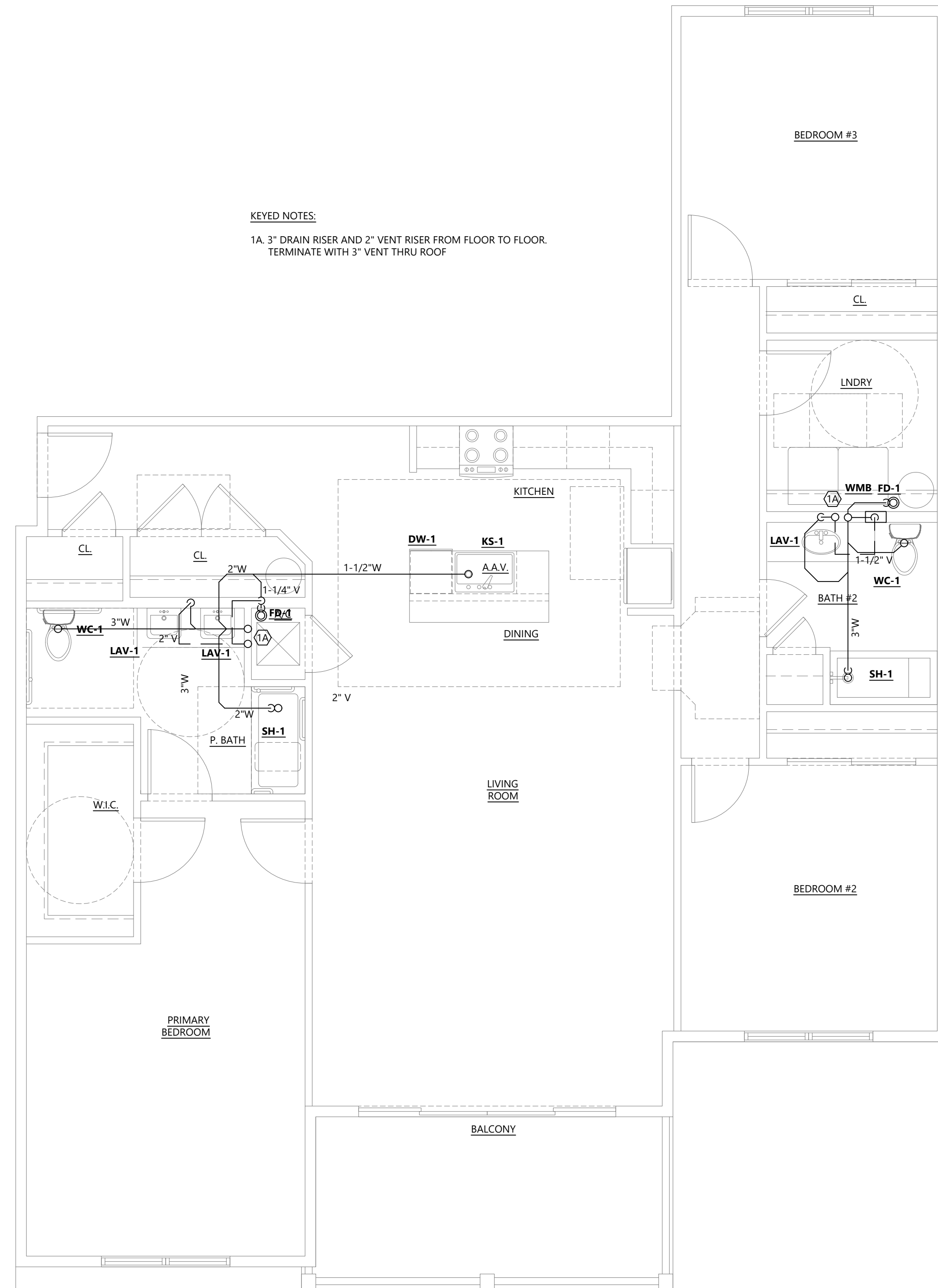
WILDE # 24-125



VERIFY LOCATION OF WATER
HEATER PER ARCHITECT'S
DESIGN BEFORE
INSTALLATION. TYPICAL FOR
ALL UNITS OF THIS TYPE

1 TYPICAL 3BR UNIT PLUMBING SUPPLY PLAN

1/4"=1'-0"



KEYED NOTES:

1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR.
TERMINATE WITH 3" VENT THRU ROOF

2 TYPICAL 3BR PLUMBING SANITARY PLAN

1/4"=1'-0"

#	REVISIONS	DATE

DWG INFO:
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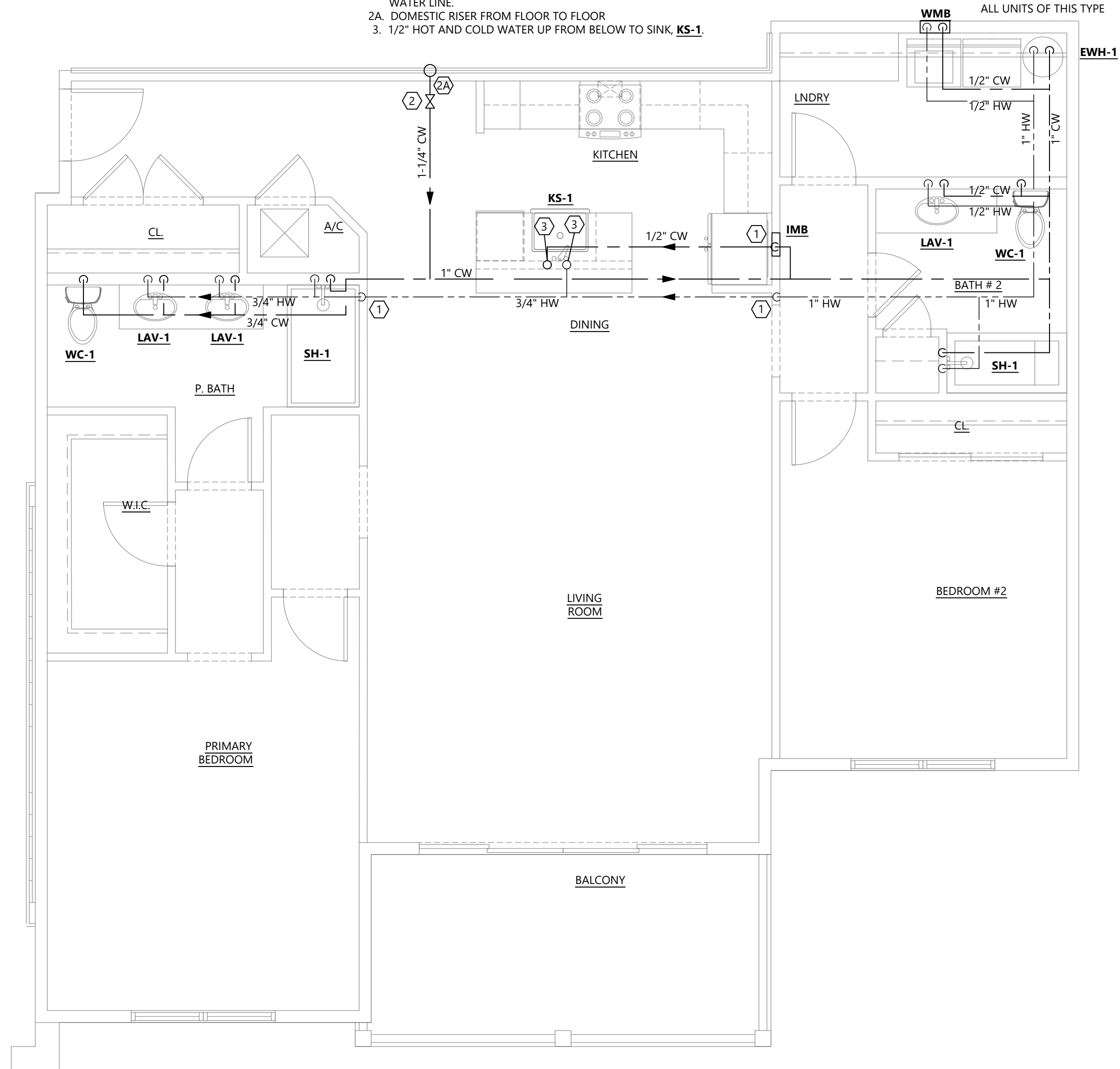
DWG DESCRIPTION:
**ENLARGED UNIT
PLANS**

SHEET #:
P-10

KEYED NOTES:

- 1/2" HOT AND/OR COLD WATER DOWN WALL AND BELOW FLOOR TO SINK, **KS-1**
- UNIT 1-1/4" MAIN SHUT OFF VALVE IN CEILING. PROVIDE ACCESS PANEL. SEE OVERALL PLANS FOR ROUTING OF MAIN DOMESTIC WATER LINE.
- DOMESTIC RISER FROM FLOOR TO FLOOR
- 1/2" HOT AND COLD WATER UP FROM BELOW TO SINK, **KS-1**.

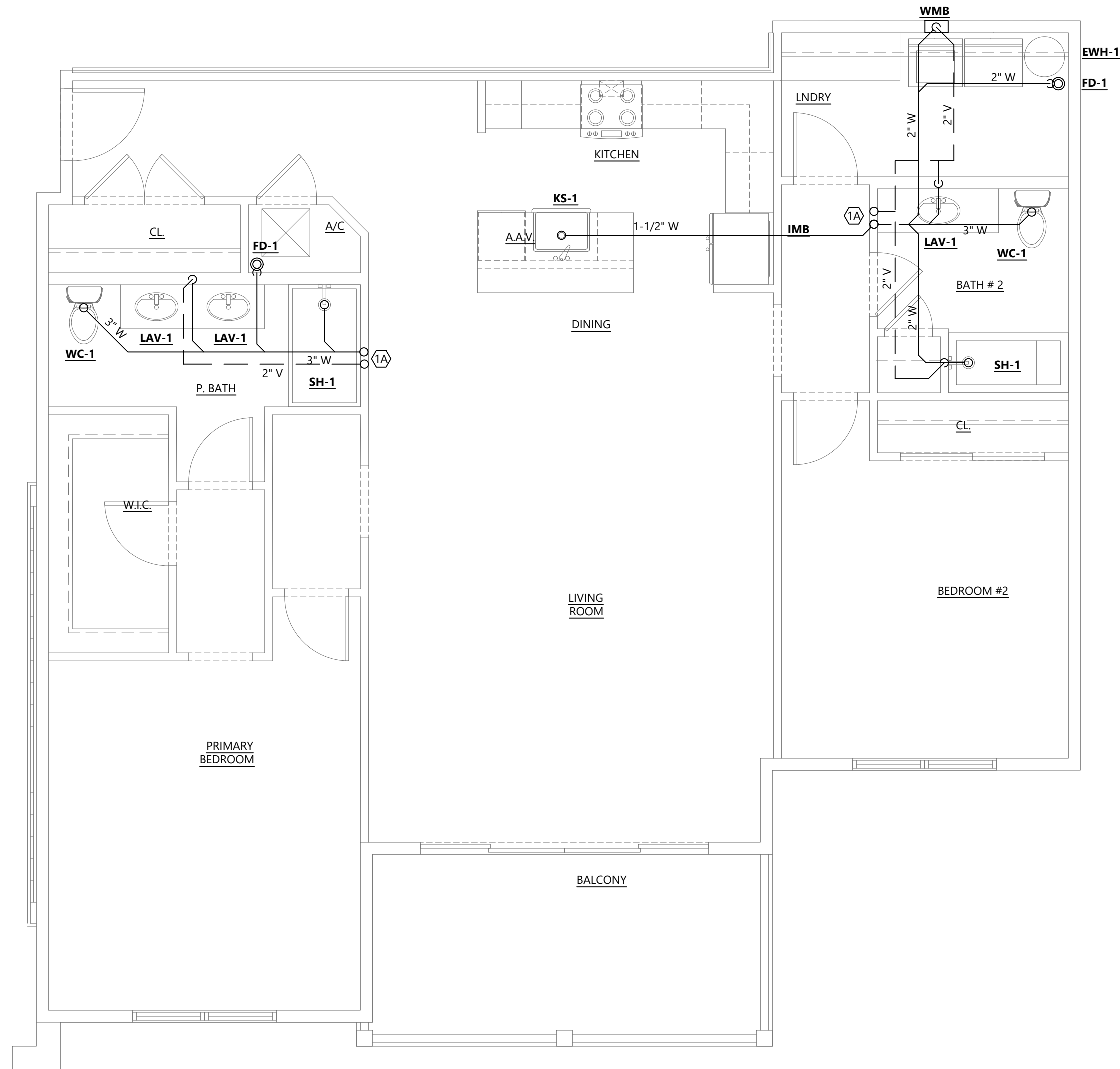
VERIFY LOCATION OF WATER HEATER PER ARCHITECT'S DESIGN BEFORE INSTALLATION. TYPICAL FOR ALL UNITS OF THIS TYPE



1 TYPICAL 2BR UNIT LEVEL 3 PLUMBING SUPPLY PLAN
1/4" = 1'-0"

KEYED NOTES:

- 1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT THRU ROOF



2 TYPICAL 2BR UNIT LEVEL 3 PLUMBING SANITARY PLAN
1/4" = 1'-0"

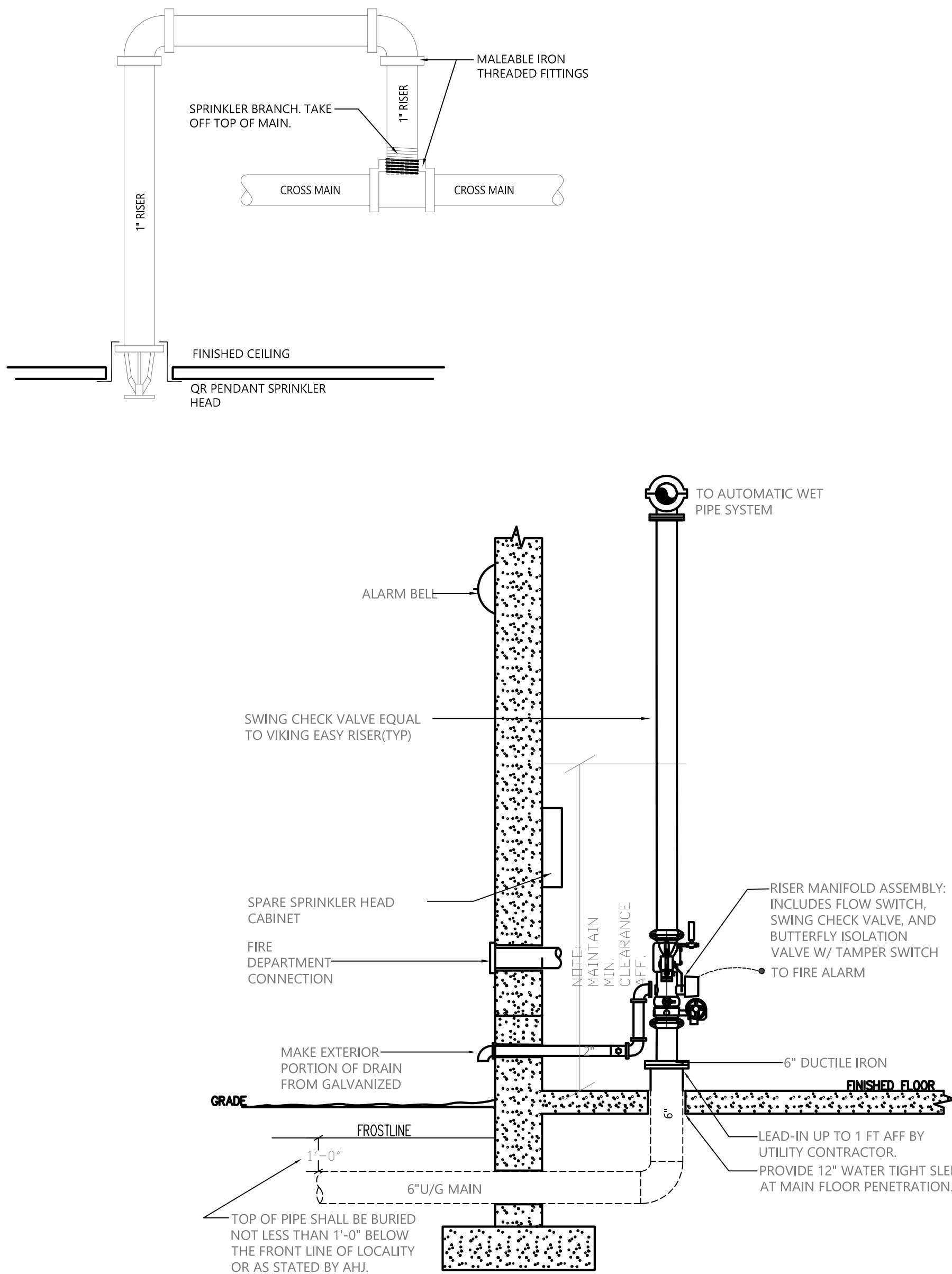
SPRINKLER DESIGN CRITERIA					
OCCUPANCY	HAZARD	REMOTE AREA	HOSE STREAM	MAX HEAD COVERAGE	REMARKS
LIGHT HAZARD	0.10 GPM/SF	1500 SF	100 GPM	225 SF/HD	QR RESIDENTIAL SPRINKLERS THROUGHOUT

- SPRINKLER CONTRACTOR SHALL VERIFY FINISH OF ESCUTCHEON/FACEPLATE WITH ARCHITECT/OWNER.
- SPRINKLER HEADS SHALL MATCH OWNER STANDARDS.
- ESCUTCHEONS SHALL BE COMPATIBLE WITH MAKE AND MODEL OF HEAD TYPES.
- ESCUTCHEONS SHALL BE INSTALLED TO ACCOUNT/ADJUST FOR CEILING TILE DEFLECTION.

- GENERAL PROJECT NOTES:
- MOUNT SPRINKLERS WITHIN CENTER OF A.C.T.
 - SPRINKLERS SHALL BE A MINIMUM 4" FROM WALLS/OBSTRUCTION.
 - SPRINKLERS SHALL BE INSTALLED A MINIMUM OF 6'-0" APART.
 - SOFFITS ARE TO BE SPRINKLED, UNLESS ARE APPLICABLE TO EXEMPTION PER NFPA 8.6.5.1.2.
 - PROVIDE ADDITIONAL FIRE SPRINKLERS, AS MAY BE DIRECTED BY FIRE MARSHALL, AT NO ADDITIONAL COST TO OWNER.
 - PROVIDE UPRIGHT HEADS WITHIN OPEN CEILINGS.
 - PROVIDE SEMI RECESSED HEADS WITHIN A.C.T. CEILINGS.
 - PROVIDE CONCEALED HEADS WITHIN GYPSUM CEILINGS.
 - COORDINATE SPRINKLERS WITH LIGHTING/RCP, MECHANICAL, AND ALL OTHERS TRADES WITHIN PLANE OF CEILING.

Scope of Work:

PROJECT CONSISTS OF INSTALLING NEW WET SPRINKLER SYSTEM THROUGHOUT APARTMENT BUILDING.



DEFERRED SUBMISSION

THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS WITHIN THE WILDE ENGINEERING DOCUMENT SET ARE PERFORMANCE BASED AND INTENDED TO CONVEY SCOPE OF THE WORK. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL TO THE LOCAL AHJ SHOP DRAWINGS AND HYDRAULIC CALCULATIONS INDICATING THE SPRINKLER SYSTEM LAYOUT, INCLUDING FINAL HEAD LOCATIONS AND MAIN/LEADER PIPING SIZING. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THESE DOCUMENTS SEALED BY A LICENSED FIRE PROTECTION ENGINEER.

FIRE PROTECTION SPECIFICATIONS

- FIRE PROTECTION CONTRACTOR TO PROVIDE DESIGN AND INSTALLATION FOR NEW FIRE SPRINKLER SYSTEMS FOR NEW APARTMENTS BUILDINGS. FIRE PROTECTION SYSTEMS SHALL BE HYDRAULICALLY CALCULATED AND DESIGNED. FIRE PORTECTION CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL NECESSARY EQUIPMENT INCLUDING PIPE, FITTINGS, VALVES AND ACCESSORIES. FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS, DESIGN OF SPRINKLER SYSTEMS, TESTING, MATERIAL AND LABOR FOR COMPLETE FIRE PROTECTION SYSTEM.
- SPRINKLER SYSTEMS SHALL BE DESIGNED TO MEET STANDARDS OF NFPA 13R 2013ED. THE DESIGN SHALL ALSO MEET THE REQUIREMENTS OF THE OWNER'S INSURANCE COMPANY AND THE LOCAL AUTHORITY HAVING JURISDICTIONS.
- SUBCONTRACTOR SHALL PROVIDE COPIES OF DESIGN CALCULATIONS, DRAWINGS AND ALL SUBMITTAL DATA TO ALL AUTHORITY HAVING JURISDICTIONS, OWNER'S INSURANCE COMPANY AND ARCHITECT. FIRE PROTECTION CONTRACTOR TO PROVIDE COPIES OF MATERIAL DATA AND TEST CERTIFICATES FOR ABOVE GROUND PIPING STARTING AT 1'-0" ABOVE FINISHED FLOOR AT LEAD IN LOCATIONS TO AUTHORITY HAVING JURISDICTION, OWNER AND ENGINEER OF RECORD AS RECORD OF COMPLETION.
- OPERATION AND MAINTENANCE MANUALS TO BE PROVIDED TO THE OWNER BY THE FIRE PROTECTION CONTRACTOR.
- FIRE PROTECTION CONTRACTOR TO PROVIDE TRAINING FOR OWNER TO FAMILIARIZE THEMSELVES WITH BASIC FUNCTION OF THE FIRE SPRINKLER SYSTEMS, LOCATION OF RISER, MAINTENANCE REQUIREMENTS PER NFPA 25, EMERGENCY CONTACTS AND SHUT OFF VALVE LOCATIONS.
- ALL PIPE INSIDE THE UNITS WILL BE FIRE RATED CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE ASME B1.20.1, ASTM F441. ALL FITTINGS WILL BE CHLORINATED POLYVINYL CHLORIDE ASTM F439. THESE FITTINGS AND PIPE WILL BE JOINED BY SOLVENT CEMENT FOR ASTM F493. ALL CPVC PIPE AND CPVC FITTINGS TO BE UL/FM LISTED AND APPROVED.
- GATE VALVES WILL BE MADE OF AN IRON BODY, BRONZE TRIM, RISING OUTSIDE SCREW AND YOKE WITH SOLID WEDGE UL/FM LISTED AND APPROVED.
- SPRINKLER HEADS: PROVIDE 155" QUICK RESPONSE RESIDENTIAL SPRINKLERS IN THE PENDENT POSITION WITHIN THE UNITS ON THE LOWER FLOORS AND SIDEWALL SPRINKLERS ON THE TOP FLOOR OF ALL BUILDINGS. PROVIDE 155" DRY SIDEWALL SPRINKLERS IN ALL BREEZEWAYS IN ALL BUILDING TYPES.
- FIRE PROTECTION CONTRACTOR TO INSTALL PIPING IN ACCORDANCE WITH NFPA 13R 2013 ED. SEAL PIPING AND SLEEVE PENTRATIONS TO ACHIEVE FIRE RESISTANCE TO FIRE SEPARATION AS REQUIRED.

FIRE PROTECTION CRITERIA

- NEW CONSTRUCTION IS 7 MULTI STORY APARTMENT BUILDINGS VARYING IN SIZE WITH A NEW WET SPRINKLER SYSTEM DESIGNED PER NFPA-13R 2013 ED. CPVC SPRINKLER PIPE WILL BE RAN WITHIN THE TRUSSES BETWEEN FLOORS WITH THE SPRINKLER HEADS BEING FED FROM THIS PIPE. THE SITE IS LOCATED IN HENDERSONVILLE, NC.
- FIRE SPRINKLER ACCEPTANCE TESTING SHALL BE PROVIDED PER NFPA-13R 2013 ED.
- SPRINKLER SYSTEM FOR THE BUILDING SHALL BE WET PIPE SPRINKLER SYSTEM, DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13R 2013 ED.
- THESE APARTMENT BUILDINGS WILL BE DESIGNED FOR LH OCCUPANCY PER NFPA-13R 2013ED. SPRINKLERS WILL BE RESIDENTIAL SPRINKLERS WITH SPRINKLER SPACING PER SPRINKLER SPECIFICATION SHEETS USED IN DESIGN. FIRE PROTECTION CONTRACTOR WILL BE A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM AND WILL BE RESPONSIBLE FOR PROVIDING HYDRAULIC CALCULATIONS FOR THE FIRE SPRINKLER SYSTEM.
- STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS FOR THE FIRE PROTECTION SYSTEM INCLUDING LIVE AND DEAD LOADS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. CPVC PIPE WILL BE LOCATED WITH A WALL CAVITY IN THE UNIT. ALL PENETRATIONS THRU STRUCTURAL MEMBERS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER PRIOR TO CORING OR SUPPORTING TO ENSURE PROPER WEIGHT DISTRIBUTION AND TO AVOID WEAKENED STRUCTURE. ALL FIRE PROTECTION PIPING PENETRATIONS SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED CAULK.
- FIRE PROTECTION CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING SEISMIC BRACING OF THE FIRE PROTECTION MAIN PIPING AND BRANCH LINE PIPE WILL BE SUPPLIED IF APPLICABLE.
- SPRINKLERS IN BATHROOMS 55 SQFT AND SMALLER ARE PERMITTED TO BE OMITTED PER NFPA 13R 2013ED SECTION 6.6.2. SPRINKLERS IN CLOTHES CLOSETS, LINEN CLOSETS AND PANTRIES ARE PERMITTED TO BE OMITTED PER NFPA 13-R 2013ED. SECTION 6.6.3. SPRINKERS ARE PERMITTED TO BE OMITTED IN CLOSETS ON BALCONIES PER NFPA 13-R 2013 ED. SECTION 6.6.7
- PENDENT SPRINKLERS SHALL BE LOCATE AT LEAST 3FT FROM CEILING FANS AND LIGHT FIXTURES PER NFPA 13R- 2013 ED. SECTION 6.4.6.3.4.1. SIDEWALL SPRINKLERS SHALL BE LOCATED AT LEAST 5FT FROM CEILING FANS AND LIGHT FIXTURES PER NFPA 13R-2013 ED. SECTION 6.4.6.3.5.1

FIRE PROTECTION GENERAL NOTES

- ALL WORK TO BE PERFORMED BY A FIRE PROTECTION CONTRACTOR LICENSED IN THE STATE OF NORTH CAROLINA AND IS CAPABLE OF HANDLING THE WORK OF THE SIZE AND SCOPE INDICATED ON THE PLANS. ALL WORK SHALL BE PERFORMED BY OTHERS. ALL WORK SHALL BE NEAT AND PROFESSIONAL, AND SHALL MEET ALL SAFETY REQUIREMENTS SPECIFIED BY CODE OR RECOMMENDED MANUFACTURER.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. CLEARANCES SHALL BE MAINTAINED AND EQUIPMENT SHALL BE INSTALLED TO ALLOW FOR EASE OF SERVICE.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODES AND WITH REQUIREMENTS OF ALL LOCAL AUTHORITY HAVING JURISDICTIONS.
- THE FIRE PROTECTION CONTRACTOR SHALL WARRANTY ALL OF THEIR WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS, STARTING AT THE DATE WHEN THE SYSTEM IS DETERMINED TO BE PUT INTO SERVICE AND COMPLETE. IF DURING THE WARRANTY PERIOD ANY PORTION OF THE SYSTEM(S) IS FOUND TO BE DEFECTIVE, THE FIRE PROTECTION CONTRACTOR SHALL REPAIR OR REPLACE THAT PORTION OF THE SYSTEM IN A TIMELY MANNER AND AT NO EXPENSE TO THE OWNER. THIS WARRANTY SHALL BE IN ADDITION TO ANY MANUFACTURER'S WARRANTY.
- THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT A SET OF NFPA SHOP DRAWINGS SHOWING THE PIPE ROUTES, HANGER LOCATIONS AND PLACEMENT OF SPRINKLERS. THESE DRAWINGS SHALL INDICATE REMOTE AREAS AND DENSITIES ALONG WITH SPACING OF THE SPRINKLER HEADS WITHIN THE BUILDING. THE DRAWINGS SHALL CROSS REFERENCE NODES AND PIPES USED TO PREPARE HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS SHALL BE PERFORMED AND BASED ON THE PREPARED DRAWINGS BY THE FIRE PROTECTION CONTRACTOR. THE HYDRAULIC CALCULATIONS SHALL PROVE THE WATER PRESSURES AND FLOWS AT THE SITE ARE SUFFICIENT TO MEET SPRINKLER REQUIREMENTS.
- PIPE AND EQUIPMENT SUPPORTS AND HANGERS SHALL MEET LOCAL SEISMIC REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE AND NFPA STANDARDS. SEISMIC CALCULATIONS SHALL BE PERFORMED TO DETERMINE THE TYPE OF SEISMIC BRACES AND RESTRAINTS THAT SHALL BE USED FOR THE SPRINKLER SYSTEM IF APPLICABLE.
- REFER TO PLUMBING PLANS FOR RISER ROOM LOCATIONS AND BUILDING LAYOUTS



- PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE:

CLIENT:

The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO :
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: JS
CHECKED BY: JK

DWG DESCRIPTION :
FIRE PROTECTION
COVER SHEET
BLDGS 5& 7

SHEET #:
FP-00