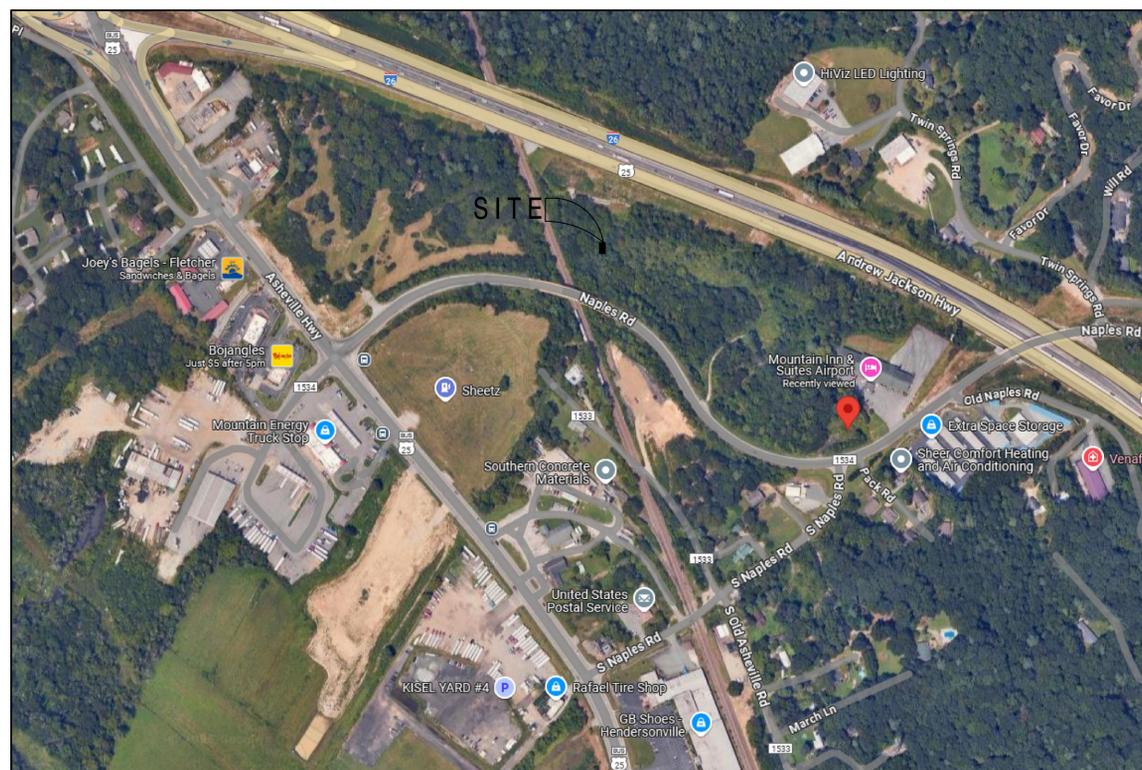


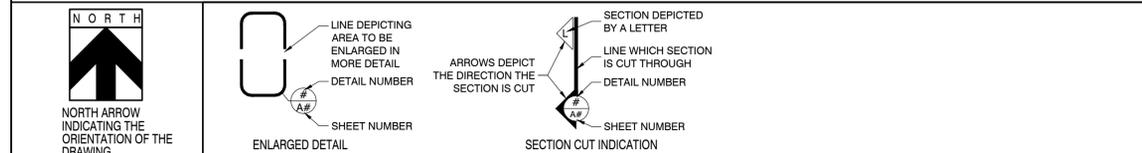
GENERAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	SQ.	SQUARE
ACOUS.	ACOUSTICAL	STD.	STANDARD
ADD.	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/C	WATER CLOSET
CEM.	CEMENT	W/O	WITHOUT
CL.	CENTERLINE	W/R	WATER RESISTANT
CER.	CERAMIC	WD.	WOOD
CLG.	CEILING	WT.	WEIGHT
CLKG.	CAULKING		
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.	HOUR		
H.T.	HANGER-TIGHT UNIT		
HVAC	HEATING, VENTILATION, AIR CONDITIONING		
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		
P.LAM.	PLASTIC LAMINATE		
PL.	PLATE		
PLAS.	PLASTER		
PLYWD.	PLYWOOD		
PR.	PAIR		
PT.	POINT		
#	POUND OR NUMBER		
R.	RISER		
RAD.	RADIUS		
REQ'D.	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 HUNTERVILLE, NC ph: 704-439-7038

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 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: 20,902 SF. (TABLE 506.2 GROUP R-2 12,000 S13R SPRINKLED MAX AREA ALLOWABLE)
 AREA INCREASE MODIFICATION: (SECTION 506.2.3, EQUATION 5-2)
 $AREA = [12,000 + (12,000 \times 0.75)] \times 3 = 63,000$ SF. WHICH IS GREATER THAN 20,902 SF.
 LARGEST FLOOR 7,179 SF. WHICH IS LESS THAN 21,000 SF.
 BUILDING HEIGHT: $\pm 49'-0"$ (TABLE 504.3 R2 60' S13R SPRINKLED MAX. ALLOWABLE)
 NUMBER OF STORIES: 3 ABOVE GROUND PLANE (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- 12 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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	S-3.01	FOUNDATION SECTIONS.
	S-4.00	FLOOR FRAMING SECTIONS.
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	FP-00	FIRE PROTECTION COVER SHEET
CIVIL		

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 341 N main Street
 Hendersonville, NC 28792
 Luis Graef: President



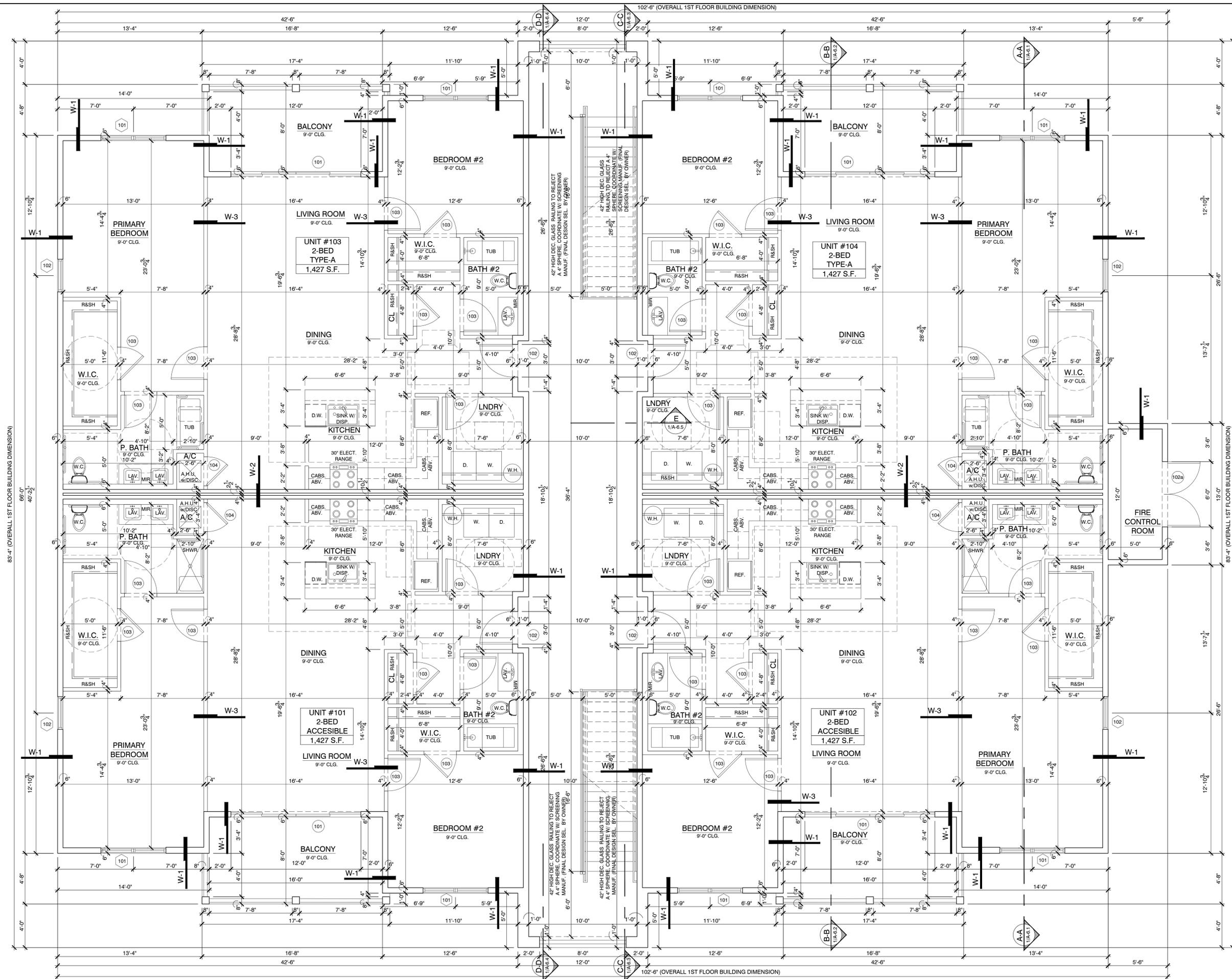
PROJECT:
 The Orchards at Naples Road
 Building 2 - 12 units
 Apartment Complex
 Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
 COVER SHEET.
 ISSUE FOR REVIEW ONLY NOT
 ISSUE FOR BUILDING PERMIT.

SHEET #:
CS-1

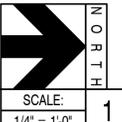


83'-4" (OVERALL 1ST FLOOR BUILDING DIMENSION)

102'-6" (OVERALL 1ST FLOOR BUILDING DIMENSION)

102'-6" (OVERALL 1ST FLOOR BUILDING DIMENSION)

83'-4" (OVERALL 1ST FLOOR BUILDING DIMENSION)



FIRST FLOOR PLAN

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Luis Graef: President



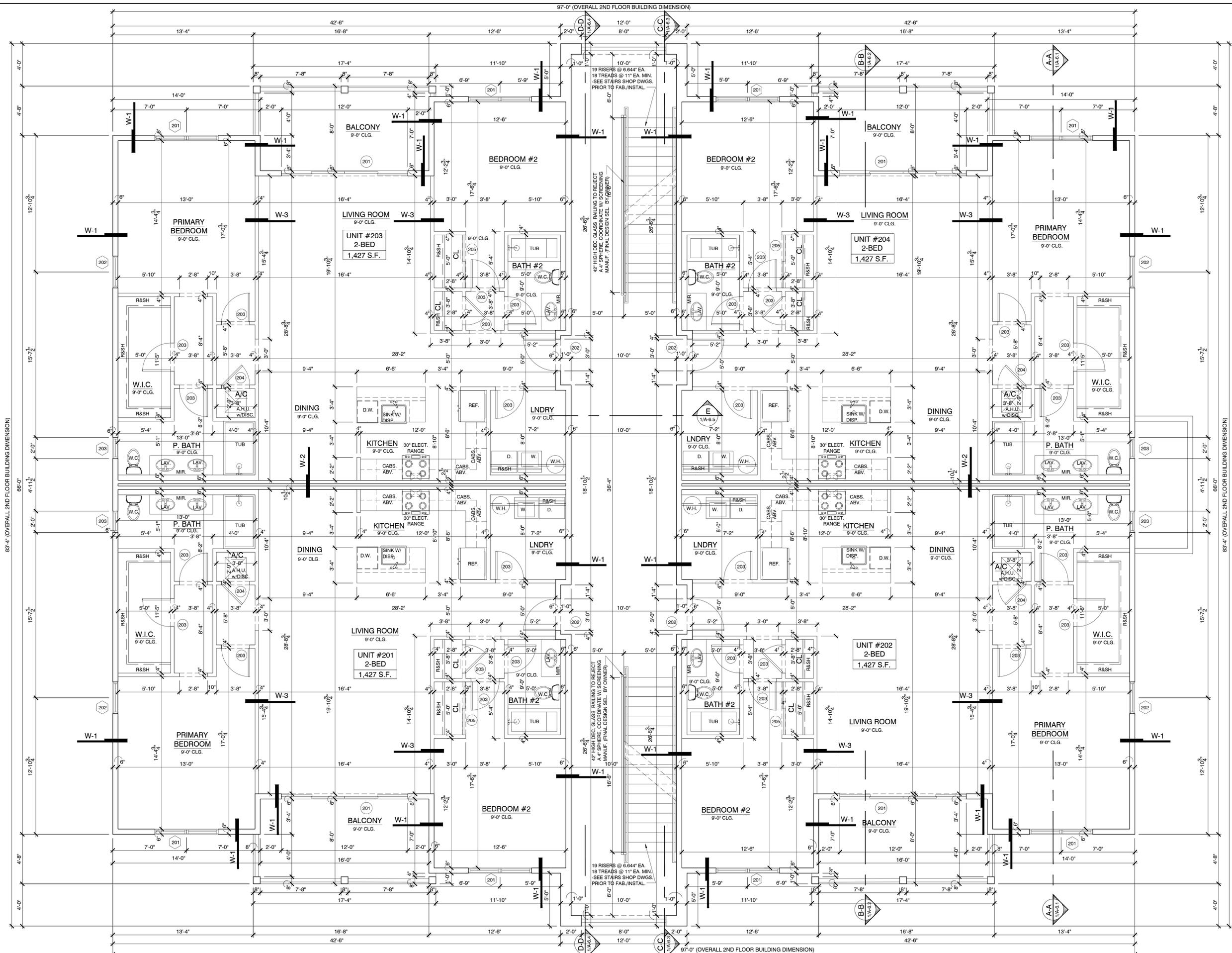
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DWG INFO:
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FIRST FLOOR PLAN.
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SHEET #:
A-1



83'-4" (OVERALL 2ND FLOOR BUILDING DIMENSION)

97'-0" (OVERALL 2ND FLOOR BUILDING DIMENSION)

97'-0" (OVERALL 2ND FLOOR BUILDING DIMENSION)

83'-4" (OVERALL 2ND FLOOR BUILDING DIMENSION)



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

SECOND FLOOR PLAN



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PROJECT:
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Hendersonville, North Carolina

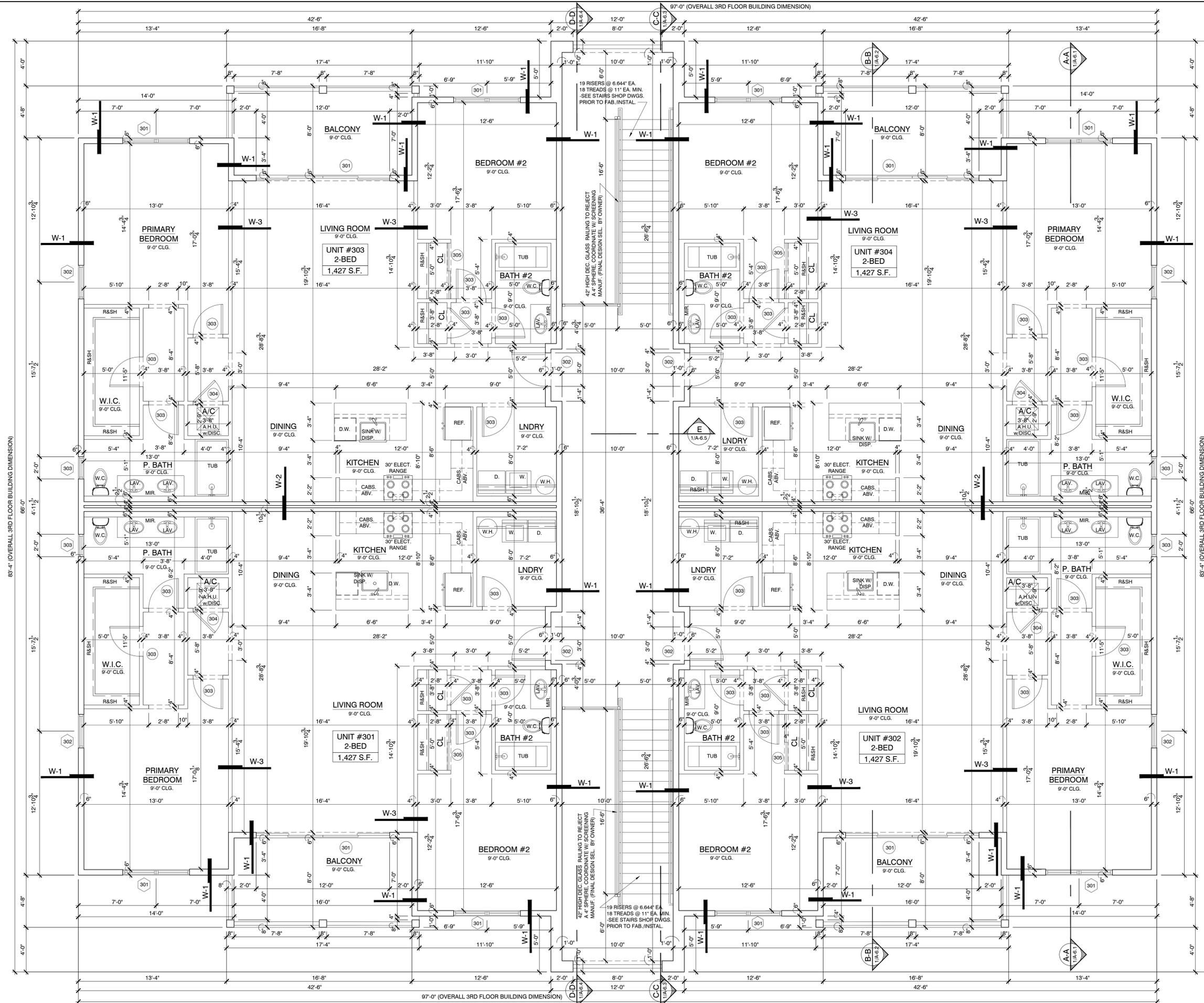
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SECOND FLOOR PLAN.
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A-2

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88'-4" (OVERALL 3RD FLOOR BUILDING DIMENSION)

88'-4" (OVERALL 3RD FLOOR BUILDING DIMENSION)

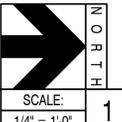
4'-0"

4'-0"

4'-0"

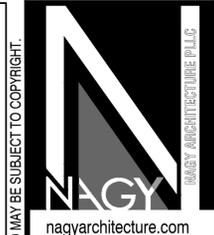
4'-0"

97'-0" (OVERALL 3RD FLOOR BUILDING DIMENSION)



THIRD FLOOR PLAN

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



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Apartment Complex
Hendersonville, North Carolina

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PROJECT #: 22105
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THIRD FLOOR PLAN.
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A-3

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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	ACCESSIBLE	1,427 S.F.	132 S.F.	1,559 S.F.	6,236 S.F.	872 S.F.	7,179 S.F.
102	2	ACCESSIBLE	1,427 S.F.	132 S.F.	1,559 S.F.			
103	2	A	1,427 S.F.	132 S.F.	1,559 S.F.			
104	2	A	1,427 S.F.	132 S.F.	1,559 S.F.			

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

FIRST FLOOR EXTERIOR DOOR SCHEDULE								
No.	TYPE	W x H	R. O. W x H	OPER.	MATER.	SILL	REMARKS	EGRESS
101	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
102	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	X	HOLLOW METAL	MTWS		EGRESS
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.	SILL	REMARKS
103	SINGLE DR.	3'-0" X 6'-8"	WOOD	-	
104	SINGLE DR.	2'-8" X 6'-8"	WOOD	-	LOUVERED AT A/C CLOSET

FIRST FLOOR WINDOW / DOOR SCHEDULES & AREA CALCULATIONS SCALE: 1/8" = 1'-0" 2

SECOND 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
201	2		1,427 S.F.	132 S.F.	1,559 S.F.	6,236 S.F.	872 S.F.	7,107 S.F.
202	2		1,427 S.F.	132 S.F.	1,559 S.F.			
203	2		1,427 S.F.	132 S.F.	1,559 S.F.			
204	2		1,427 S.F.	132 S.F.	1,559 S.F.			

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	W x 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" X 6'-8"	WOOD	-	
204	SINGLE DR.	2'-8" X 6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
205	BI-FOLD DR.	(2) 2'-6" X 6'-8"	WOOD	-	

SECOND FLOOR WINDOW / DOOR SCHEDULES & AREA CALCULATIONS SCALE: 1/8" = 1'-0" 2

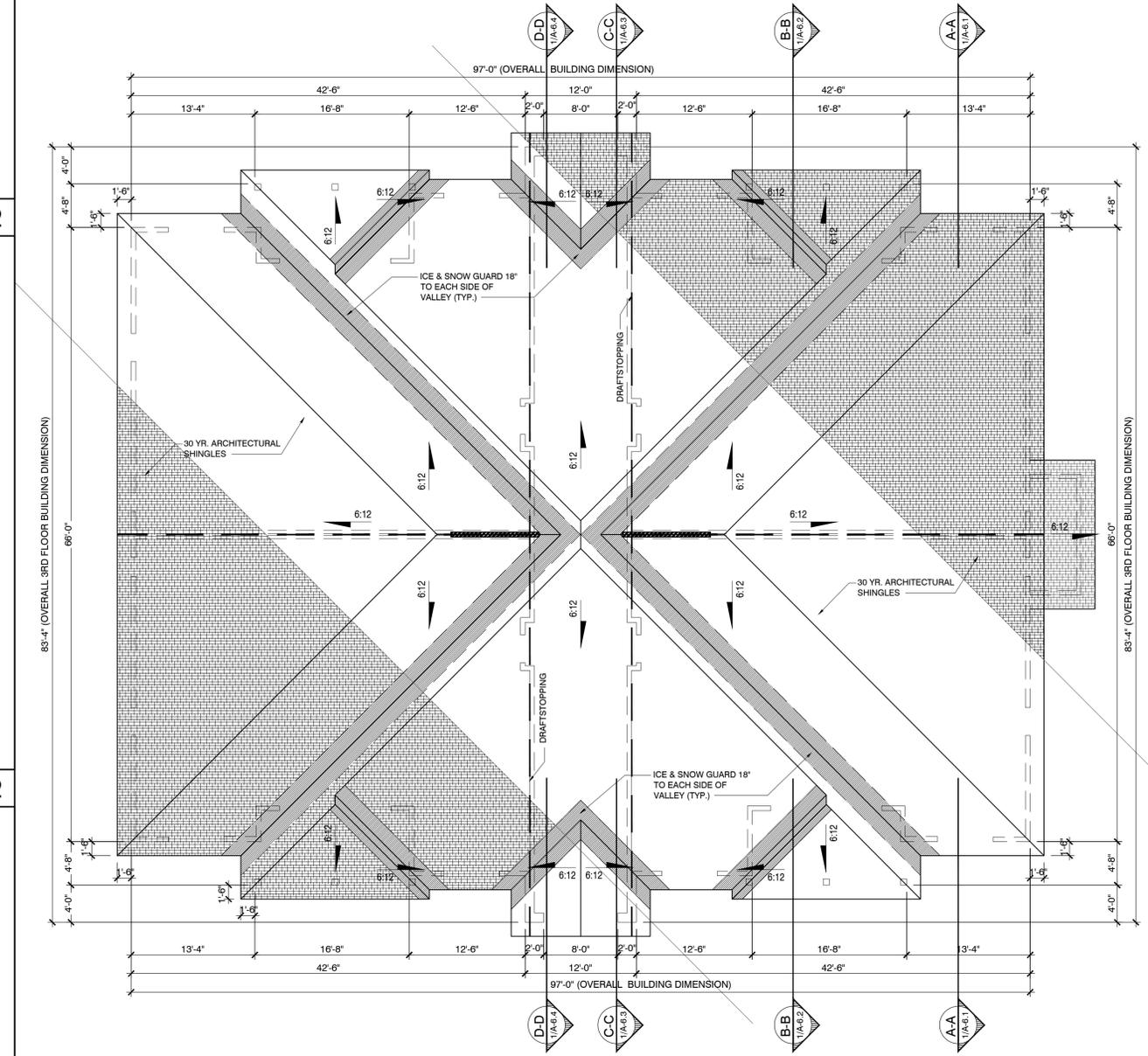
THIRD FLOOR AREA CALCULATION								
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA
301	2		1,427 S.F.	132 S.F.	1,559 S.F.	6,236 S.F.	872 S.F.	6,616 S.F.
302	2		1,427 S.F.	132 S.F.	1,559 S.F.			
303	2		1,427 S.F.	132 S.F.	1,559 S.F.			
304	2		1,427 S.F.	132 S.F.	1,559 S.F.			

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	W x 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.	3'-0" X 6'-8"	WOOD	-	
304	SINGLE DR.	2'-8" X 6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
305	BI-FOLD DR.	(2) 2'-6" X 6'-8"	WOOD	-	

THIRD FLOOR WINDOW / DOOR SCHEDULES & AREA CALCULATIONS SCALE: 1/8" = 1'-0" 4



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



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Luis Graef: President



PROJECT:
The Orchards at Naples Road
Building 2 - 12 units
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
ROOF PLAN.
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SHEET #:
A-4

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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 OWNERS 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 - 1-1/2" 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 OWNERS 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 OWNERS 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. (70 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)

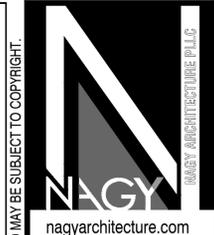
- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC AMENDMENTS.
- DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE.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



NAGY ARCHITECTURE PLLC
 1388 NW 2nd Avenue, St. #4A
 Boca Raton, Florida 33432
 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
 Building 2 - 12 units
 Apartment Complex
 Hendersonville, North Carolina

#	REVISIONS	DATE

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

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

SHEET #:
A-5.1

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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 (#192 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 (#191 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 (#191 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 & BALLUSTERS TO REJECT 4" SPHERE (FINAL DESIGN SEL. BY OWNER)
- 5** BALCONY COLUMNS
 - 6x8 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 (#191 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 (#191 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 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 (#192 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** 2" 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" (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)

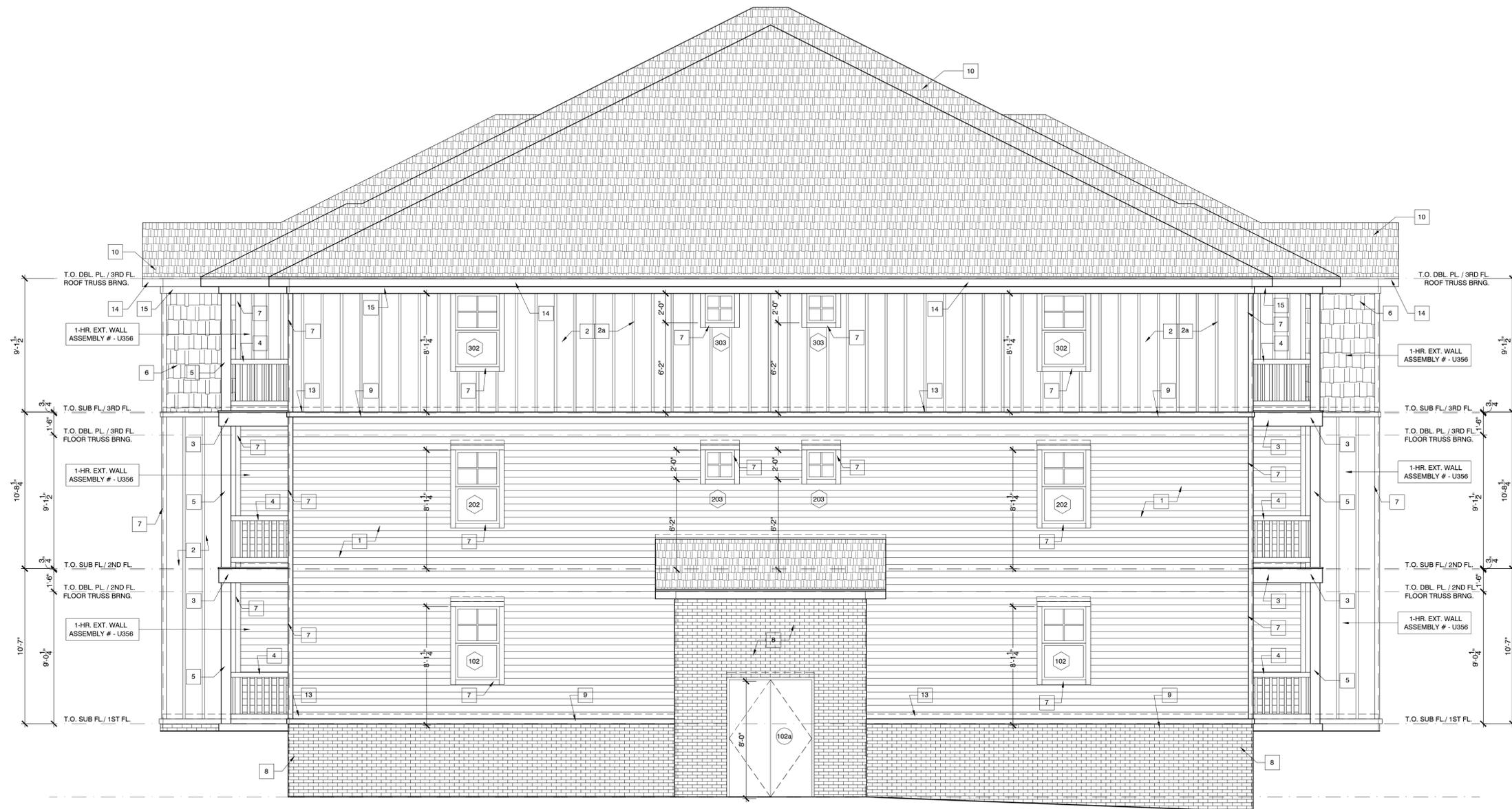
- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC AMENDMENTS.
- DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE.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

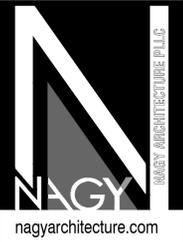
- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

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



NAGY ARCHITECTURE PLLC
1388 NW 2nd Avenue, St. #4A
Boca Raton, Florida 33432
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
Building 2 - 12 units
Apartment Complex
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.

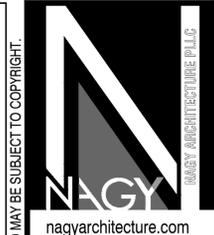
SHEET #:
A-5.2

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EXTERIOR FINISHES

- 1** COMPOSITE LAP SIDING
 - MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
 - CEDAR TEXTURE 78 SERIES LAP.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNERS 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 REST ON 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 OWNERS 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
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 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

NOTE:
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 - 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.



NAGY ARCHITECTURE LLC
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CLIENT:
 The Orchards at Naples Road, LLC
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 Luis Graef: President



PROJECT:
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 Building 2 - 12 units
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#	REVISIONS	DATE

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

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

SHEET #:
A-5.3

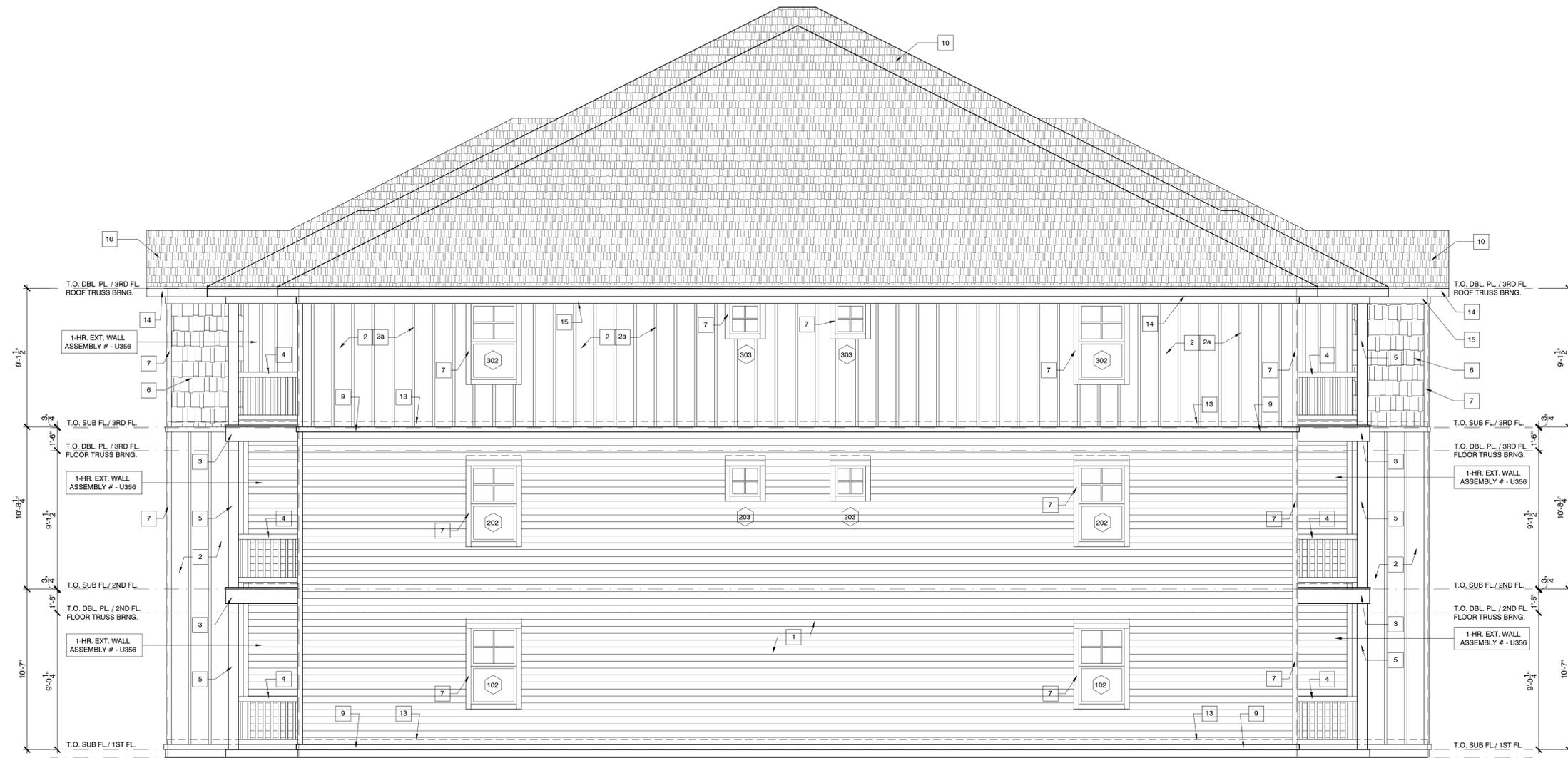
REAR ELEVATION SCALE: 1/4" = 1'-0" 1

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EXTERIOR FINISHES

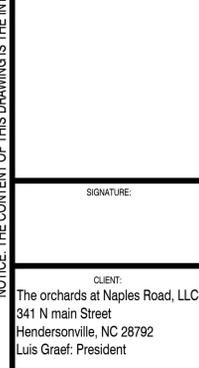
- 1 COMPOSITE LAP SIDING
 - MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER
 - CEDAR TEXTURE 76 SERIES LAP
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR 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.
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 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 8 COMPOSITE CLADDING
 - MANUFACTURER - NICHIIHA 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.
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 - MANUFACTURER - ATLAS ROOFING, PINNACLE HP - HIGH PERFORMANCE
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 - ASPHALT COMPOSITION SHINGLES.
 - ARCHITECTURAL SHINGLE, CLASS C UL RATING.
 - 130 MPH WIND RESISTANCE WARRANTY, 35 YEAR LIMITED WARRANTY.
 - COLOR: WEATHERED WOOD.
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 - 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.



NAGY ARCHITECTURE PLLC
 1388 NW 2nd Avenue, St. #4A
 Boca Raton, Florida 33432
 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
 Building 2 - 12 units
 Apartment Complex
 Hendersonville, North Carolina

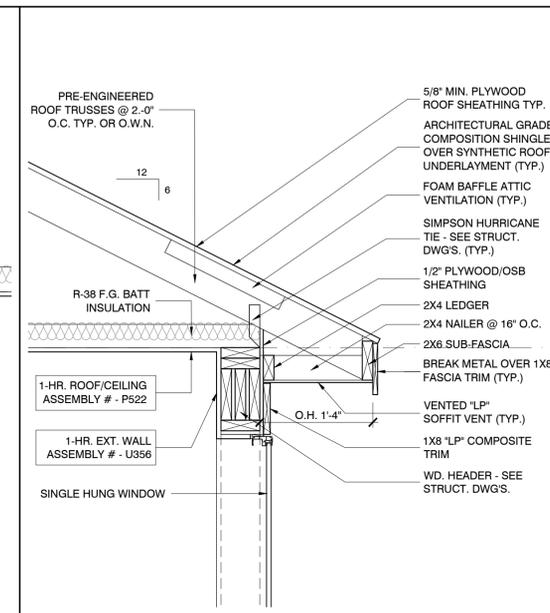
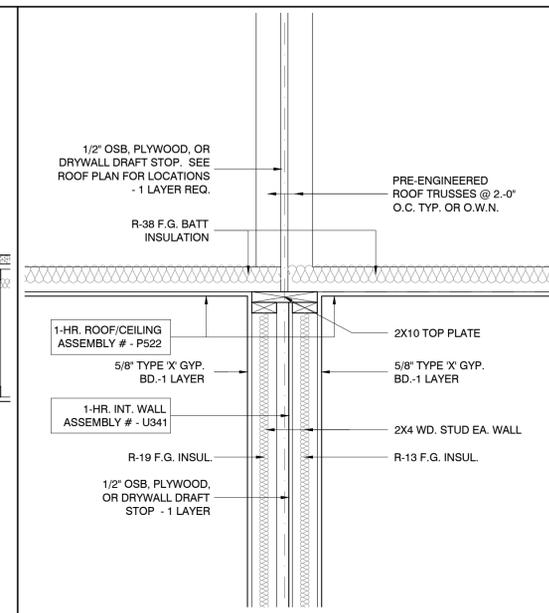
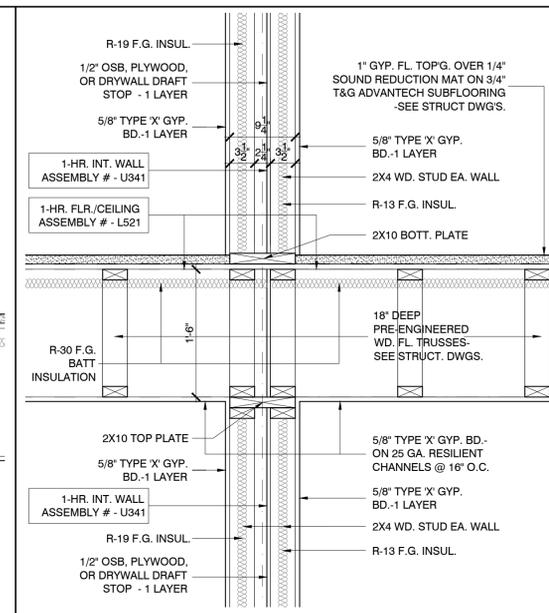
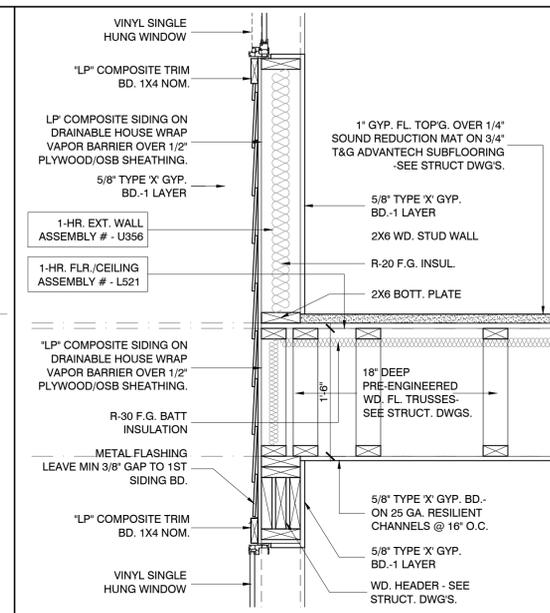
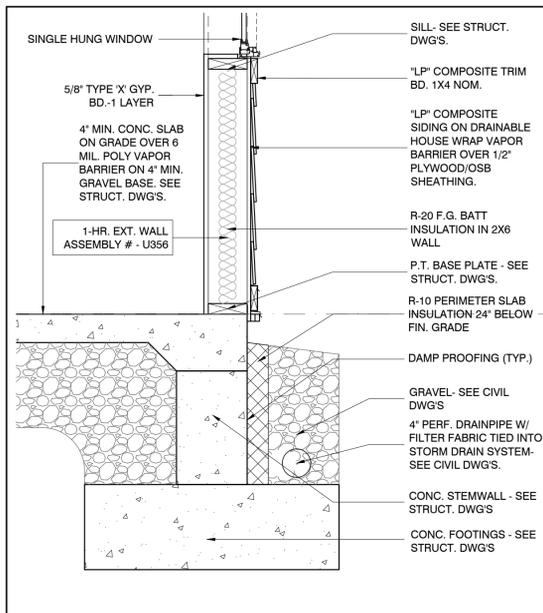
#	REVISIONS	DATE

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

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

SHEET #:
A-5.4

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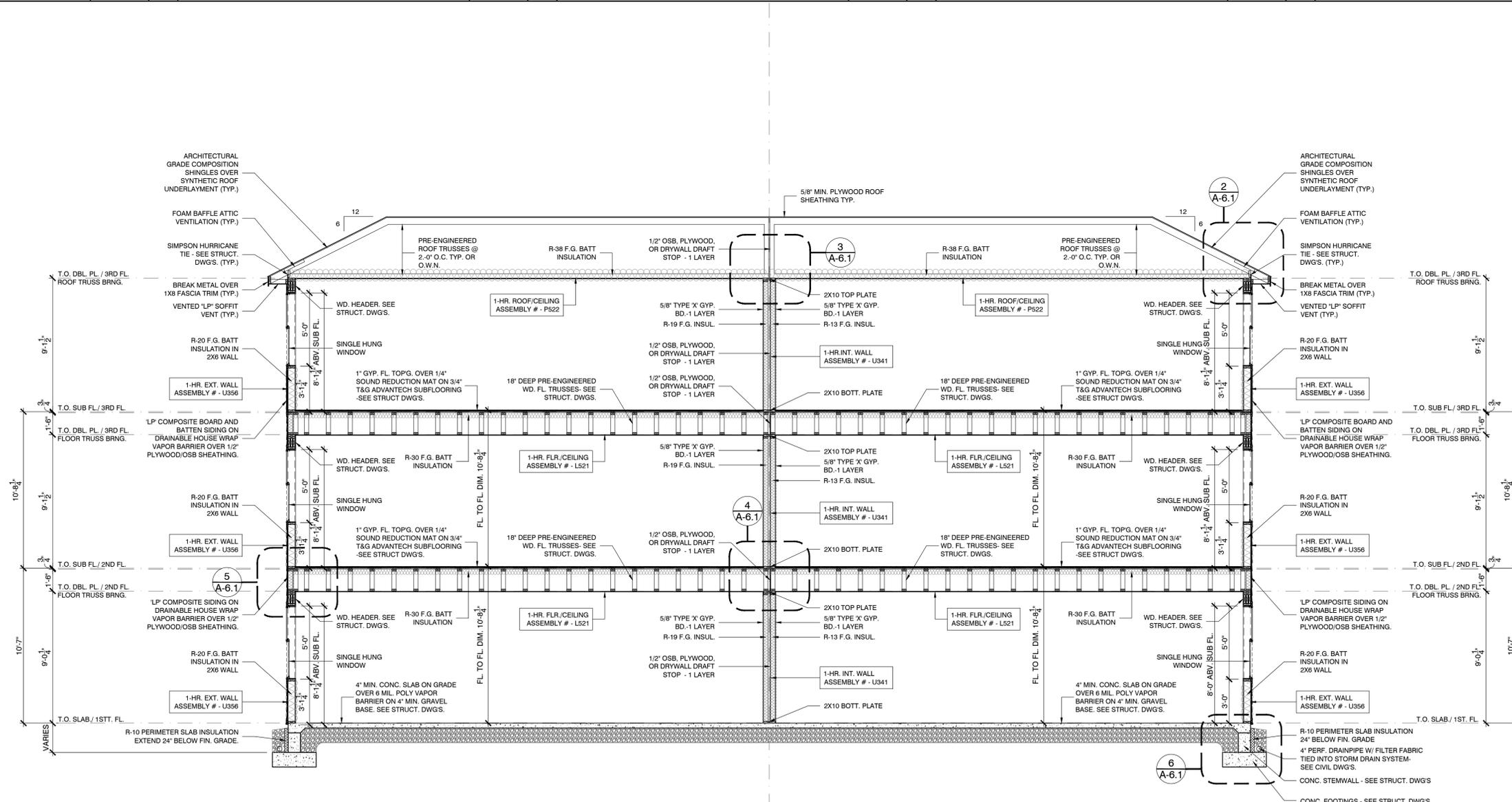
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SECTION DETAIL SCALE: 1" = 1'-0" 5

SECTION DETAIL SCALE: 1" = 1'-0" 4

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

SECTION DETAIL SCALE: 1" = 1'-0" 2



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



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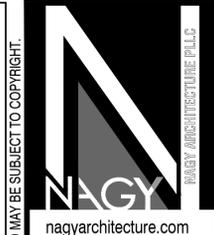
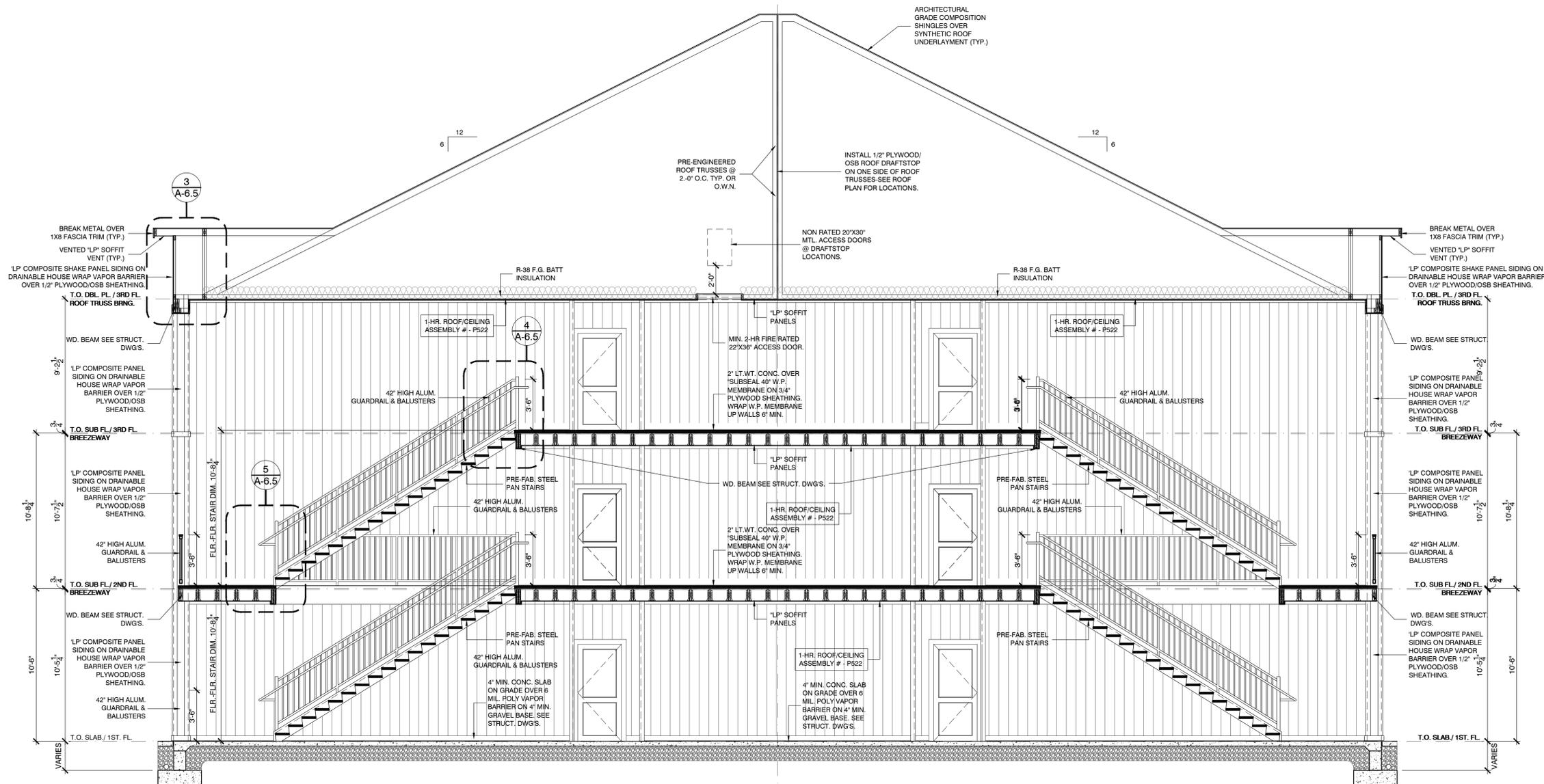
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DWG INFO:
 ISSUE DATE: 05/02/25
 PROJECT #: 22105
 DRAWN BY: GAN, LBN
 CHECKED BY: GAN

DWG DESCRIPTION:
 BUILDING SECTION "A-A".
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SHEET #:
A-6.1

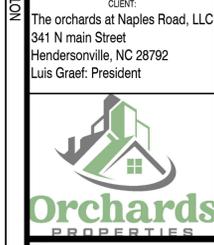
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DWG INFO:
 ISSUE DATE: 05/02/25
 PROJECT #: 22105
 DRAWN BY: GAN, LBN
 CHECKED BY: GAN

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

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STRUCTURAL ABBREVIATIONS

Table with 3 columns: ABBREV., DEFINITION, ABBREV., DEFINITION. Lists various structural abbreviations like A.B., ADONL, AFF, ALT, ARCH, B. BOT, Bbox, BAL, BB, BCX, BL, BLDG, BLW, BM, BRG, BRK, BTWN, CU, CLR, CMJ, COL, CONC, CONN, CONST, CONT, CTR, DSA, DET.DTL, DIM, DWGS, DWL, EA, EE, EFF, EL, ELEV, EOC, EOM, EOS, ES, EXIST, EXP, EXT, FK, FL, FLR, FOB, FOM, FOS, FP, FT, FTG, GB, GEN, HEF, HIF.

1.0 GENERAL NOTES:

- 1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK...
3. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE...
4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK...
5. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION...
6. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION...
7. LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION IS THE CONTRACTORS SOLE RESPONSIBILITY...
8. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS...
9. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION...
10. SUBMIT SHOP DRAWINGS IN THE FORM OF THREE PRINTS IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS...
11. UNLESS OTHERWISE INDICATED, ALL ITEMS NOTED TO BE DEMOLISHED SHALL BECOME THE CONTRACTORS PROPERTY...
12. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF...
13. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT...
14. FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS...
15. THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER CLEARLY AND EXPLICITLY IN WRITING...
16. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS...
17. IF THE CONTRACTOR CANNOT CONSTRUCT ANY PORTION OF THE WORK IDENTIFIED IN THE DRAWINGS...
18. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK...
19. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS...

2.0 DESIGN CRITERIA NOTES:

- 1. THE PRIMARY DESIGN STANDARDS AND/OR CRITERIA INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
GENERAL: BLDG CODE (N.C.B.C.2018, AS AMENDED, ASCE 7-10)
CONCRETE: ACI 318
MASONRY: ACI 530
STRUCTURAL STEEL: AISC 361
STEEL JOISTS / GRIDERS: SJI
METAL DECK: SDI
COLD-FORMED METAL: NAS
2. DESIGN GRAVITY SUPER IMPOSED DEAD LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS (SELF WEIGHT OF STRUCTURE IS NOT INCLUDED):
ROOF: 20 PSF MAX. 10 PSF MIN.
FLOORS - TYPICAL: 15 PSF
PARTITION ALLOWANCE: 0 PSF
3. DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
SLAB ON GRADE: 200 PSF
ROOF, TYPICAL: 20 PSF MIN.
STAIRS: 100 PSF
APARTMENT/CORRIDOR: 40 PSF
BALCONY: 60 PSF
4. DESIGN LATERAL LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
WIND LOADS PER ASCE7-10:
BASIC WIND SPEED (3 SECOND GUST): 115 MPH
RISK CATEGORY: II
WIND EXPOSURE: B
INTERNAL PRESSURE COEFFICIENT "GcP": +/- 0.18
COMPONENTS & CLADDING PRESSURES (PSF):
TRIBUTARY AREA (FT^2)
ZONE A <= 10 A = 50 A =100
WALLS: ZONE 4 (-) -28.0 -25.3 -24.2
ZONE 5 (-) -34.6 -29.2 -26.9
ZONE 485(+), TRANSVERSE +25.8 +23.1 +22.0
ROOF: ZONE 1 (-) -32.4 -29.4 -28.0
ZONE 2 (-) -39.0 -32.9 -30.2
ZONE 3 (-) -67.5 -53.7 -47.8
ALL ZONES (+) +16.0 +16.0 +16.0

NOTES:
CORNER & EDGE ZONES SHALL EXTEND 10'-0" FROM BUILDING EDGES.
** - INDICATES POSITIVE AND + - NEGATIVE PRESSURE (SUCTION).

Table with 2 columns: NET ROOF SUCTION, 12 PSF

Table with 3 columns: WING MAIN WIND FORCE RESISTING SYSTEM, NORTH/SOUTH LIGHT FRAME SHEAR WALLS 78 KIPS, EAST/WEST LIGHT FRAME SHEAR WALLS 55 KIPS

Table with 2 columns: WING BASE SHEAR "V", NORTH/SOUTH LIGHT FRAME SHEAR WALLS 49 KIPS, EAST/WEST LIGHT FRAME SHEAR WALLS 48 KIPS

Table with 3 columns: WING SEISMIC FORCE RESISTING SYSTEM, NORTH/SOUTH LIGHT FRAME SHEAR WALLS 49 KIPS, EAST/WEST LIGHT FRAME SHEAR WALLS 48 KIPS

Table with 2 columns: SEISMIC LOADS PER N.C.B.C. 2018: SITE CLASS, SHORT PERIOD DESIGN SPECTRAL RESPONSE "Sds", SEISMIC USE GROUP, IMPORTANCE FACTOR "Ia", SEISMIC FORCE CATEGORY

Table with 2 columns: SEISMIC LOADS PER N.C.B.C. 2018: 50 YEAR GROUND SNOW LOAD "Pg", EXPOSURE FACTOR "Ce", THERMAL FACTOR "Ct", IMPORTANCE CATEGORY CLASSIFICATION, IMPORTANCE FACTOR "Ia", NET FLAT ROOF SNOW LOAD "Pp"

- 6. THIS STRUCTURE HAS BEEN DESIGNED WITH "SAFETY FACTORS" IN ACCORDANCE WITH GENERAL ACCEPTED PRINCIPLES OF STRUCTURAL ENGINEERING...
7. BUILDING SHALL NOT BE USED AS AN EMERGENCY SHELTER.
8. 2018 NORTH CAROLINA EXISTING BUILDING CODE REFERENCES PER CHAPTER 34, EXISTING STRUCTURES, SECTION 3401.5 ALTERNATIONS, BUILDING ALTERATIONS SHALL COMPLY WITH SECTION 403 OF THE 2015 INTERNATIONAL EXISTING BUILDING CODE:
SECTION 403.1: PROPOSED ALTERATION SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE WILL BE NO LESS CONFORMING TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE THAN THE BUILDING PRIOR TO THE ALTERATIONS.
SECTION 403.3: THE EXISTING GRAVITY LOAD CARRYING STRUCTURAL ELEMENTS DUE TO ALTERATIONS OF THE STRUCTURE SHALL NOT CAUSE ANY INCREASE OF MORE THAN 5 PERCENT TO EXISTING STRUCTURAL ELEMENTS...
SECTION 403.4: ANY ALTERATIONS TO EXISTING STRUCTURAL ELEMENTS CARRYING LATERAL LOADS SHALL NOT DECREASE THE CAPACITY OF ANY EXISTING LATERAL LOAD CARRYING STRUCTURAL ELEMENT.
SECTION 403.6: THE EXISTING BUILDING'S EXTERIOR MASONRY WALL ARE REINFORCED SUCH THAT NO EVALUATION OF THE EXISTING WALL ANCHORAGE AT THE ROOF LINE IS REQUIRED TO BE SEISMIC FORCES.
SECTION 403.7: EXISTING MASONRY PARAPETS ARE REINFORCED SUCH THAT NO ADDITIONAL BRACES ARE REQUIRED TO RESIST OUT OF PLANE SEISMIC FORCES.

3.0 DEFERRED SUBMITTAL NOTES:

- 1. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
2. IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
3. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL AND SHALL BEAR THE CONTRACTORS APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES.
4. ALL SHOP DRAWINGS AND CALCULATIONS FOR DELEGATED DESIGN REQUIRING AN ENGINEER'S SEAL SHALL BE SEALED PRIOR TO SUBMISSION FOR REVIEW.
5. WHERE NOTED SEALED DRAWINGS OR CALCULATIONS ARE REQUIRED TO BE SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE PROJECT STATE...
6. THE ENGINEER OR RECORDS (EOR) REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS...
7. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
A. CONCRETE MIX DESIGNS.
B. REINFORCING STEEL SHOP DRAWINGS.
C. PRE-MANUFACTURED WOOD SYSTEM TRUSS SHOP DRAWINGS WITH CALCULATIONS.
8. ANY SHOP DRAWINGS WITH LANGUAGE LIMITING REVIEWER RESPONSES SUCH AS BUT NOT LIMITED TO THE FOLLOWING WILL NOT BE REVIEWED AND WILL BE RETURNED TO THE CONTRACTOR...
9. SHOP DRAWINGS SHALL NOT BE USED AS RFRS AND ARE TO BE CONSIDERED COMPLETELY SEPARATE SUBMITTALS.

4.0 SITE PREPARATION NOTES:

- 1. WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS, EXCAVATE A MINIMUM OF 2' OF EXISTING SOIL, REMOVE ALL ORGANICS, PAVEMENT, DEBRIS, AND OTHERWISE UNSUITABLE MATERIAL.
2. THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL.
3. PROOF-ROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK REMOVE ALL SOIL WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
4. FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL, PLACE 8 INCH LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D - 698.
5. ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHER CONTAMINATING MATERIAL WITH NOT MORE THAN 20% BY WEIGHT PASSING A NO. 200 SIEVE...
6. PROVIDE FIELD DENSITY TESTS FOR EACH 3,000 S.F. OF BUILDING AREA FOR EACH LIFT OF CONTROLLED FILL.

5.0 FOUNDATION NOTES: (TYP)

- 1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY BLE CORP. DATED 03/31/2025
2. ALL CANT-IN-PLACE CONCRETE NOTES* FOR MINIMUM CONCRETE COVER REQUIREMENTS, AND CONCRETE ELEMENT PROPERTIES.
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED.
4. SEE "CAST-IN-PLACE CONCRETE NOTES" FOR MINIMUM CONCRETE COVER REQUIREMENTS, AND CONCRETE ELEMENT PROPERTIES.
5. ALL ANCHORED MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED L/S AT SPACES UNLESS OTHERWISE NOTED SEE EMBEDMENT & LAP SPLICE SCHEDULE.
6. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
7. PRIOR TO COMMENCING ANY FOUNDATION WORK, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING WORK WITH ANY EXISTING UTILITIES.
8. UNLESS OTHERWISE NOTED, THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON COLUMN CENTERLINES.
9. ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE - DRAINING GRANULAR BACKFILL FULL HEIGHT OF WALL.
10. BOTTOM OF EXTERIOR FOUNDATIONS SHALL BEAR AT A MINIMUM DEPTH OF 1'-6" BELOW FINAL GRADE FOR Frost Protection.
11. ALL FOOTINGS HAVE BEEN DESIGNED BASED UPON AN ASSUMED SOIL BEARING PRESSURE OF 2,000 PSF.
12. TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN.
13. WHERE FOOTING EXCAVATIONS MUST REMAIN OPEN OVERNIGHT OR IF RAINFALL BECOMES IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2" TO 4" THICK MUD MAT OF UNREINFORCED LEAN (f = 2000psi) CONCRETE SHALL BE PLACED ON THE BEARING SOILS BEFORE PLACEMENT OF THE FOOTING REINFORCING.

6.0 SLAB ON GRADE NOTES:

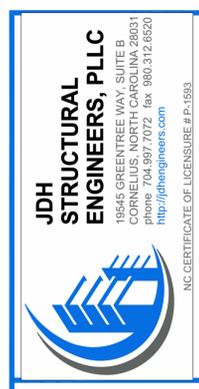
- 1. PROVIDE CAST-IN-PLACE SLABS OVER A VAPOR BARRIER PER ARCHITECT DRAWINGS AND 4" OF POROUS FILL.
2. ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185.
3. ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL WITH 100% PASSING A 1-1/2" SIEVE AND NO MORE THAN 5% PASSING A NO. 4 SIEVE.
4. SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL.
5. UNLESS OTHERWISE APPROVED, ALL SLAB REINFORCEMENT SHALL BE SECURED INTO POSITION WITH PLASTIC TYPED OR STAINLESS STEEL BAR SUPPORTS.
6. WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS.
7. SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/- 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
8. SLABS NOT PERMANENTLY EXPOSED TO WEATHER SHALL NOT BE AIR ENTRAINED AND ENTRAPPED AIR SHALL BE LIMITED TO 3%.
9. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301.
10. IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE CONCRETE SLABS IN AN ALTERNATING LANE (OR CHECKERBOARD) PATTERN.
11. THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
12. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DEPRESSED SLAB AREAS AND DRAINS.
13. THE SLIP TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 301, TYPE A.

7.0 POST-INSTALLED ANCHORS:

- 1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
2. FOR ANCHORING INTO CRACKED AND UN-CRACKED CONCRETE, MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.2 AND / OR ICC-ES AC108 FOR CRACKED AND UN-CRACKED CONCRETE.
3. MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.2 AND / OR ICC-ES AC108 FOR CRACKED AND UN-CRACKED CONCRETE.
4. FOR ANCHORING INTO UNREINFORCED MASONRY:
A. MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC108 FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY.
5. FOR ANCHORING INTO HOLLOW CONCRETE MASONRY UNITS:
A. MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC108 FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY.
6. FOR ANCHORING INTO UNREINFORCED MASONRY:
A. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC090 FOR PERFORMANCE IN UN-REINFORCED MASONRY CONFIGURATIONS A, B, AND C.
7. FOR ANCHORING LOW VELOCITY AND THREE-AXED STUDS INTO CONCRETE, MASONRY AND STEEL.
A. POWDER-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC710.
B. GAS-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC710.
C. POWDER-ACTUATED FASTENERS (ICC-ES ESR-2138)
D. GAS-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC710.
E. POWDER-ACTUATED FASTENERS (ICC-ES ESR-2811)

8.0 CAST-IN-PLACE CONCRETE NOTES:

- 1. CONCRETE MIXES SHALL BE DESIGNED PER ACI 301 CHAPTER 3, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595 AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C-618, C-989 AND C-260.
2. CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP AND UNIT WEIGHT RATIO REQUIREMENTS:
ELEMENT CONCRETE NOT NOTED CONCRETE NOT NOTED FOOTINGS SLABS-ON-GRADE
3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301.
4. WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.
5. AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 301 TABLE 3.1.1 SHALL BE USED IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING DURING CONSTRUCTION AND/OR SERVICE CONDITIONS.
6. WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR ANY CONCRETE SUBJECTED TO FREEZING/THAWING.
7. ALL PUMBED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.50 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).
8. IN NO CASE SHALL A WATER/CEMENT RATIO EXCEED THE FOLLOWING:
fc 3000 PSI 0.60 MAX. w/c RATIO
9. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 U.N.O.
10. ALL WELDED WIRE FABRIC (W/F) SHALL CONFORM TO ASTM A-185.
11. ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE.
12. REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315.
13. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
A. CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BAR, W/31 OR D31 WIRE & SMALLER - 2"
#8 BAR, W/31 OR D31 WIRE & SMALLER - 1 1/2"
B. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS & JOISTS #14 AND #18 BARS - 1 1/2" #11 BAR AND SMALLER - 3/4" #8 BAR AND LARGER - 3/4" #5 BAR, W/31 OR D31 WIRE AND SMALLER - 1/2" CONCRETE CAST AGAINST EARTH - 3"
C. BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER AND PLACEMENT.
14. ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH DOCUMENTATION THAT ALL MATERIALS CONFORM TO THE QUALITY STANDARDS SPECIFIED IN THE GENERAL BUILDING CODE.
16. IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE CONCRETE SLABS IN AN ALTERNATING LANE PATTERN.
17. FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 80% OF ITS 28 DAY COMPRESSIVE STRENGTH.
18. CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
19. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ALL CONCRETE POURS.
20. REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
21. REINFORCING BARS SHALL BE WELDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
22. REINFORCING TERMINATING AT THE TOPS OF THE COLUMNS AND PILASTERS SHALL BE HOOKED, U.N.O.
23. FILL SLABS, NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE REINFORCED WITH A MINIMUM OF 6X6@4'-0" W/11 W/11 UNLESS NOTED OTHERWISE ON OTHER DRAWINGS OR IN THE SPECIFICATIONS.
24. REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
25. ALL REINFORCING TERMINATING AT THE TOPS OF THE COLUMNS AND PILASTERS SHALL BE HOOKED, U.N.O.
26. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ALL CONCRETE POURS.



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704.887.7072
http://jdhengineers.com
N.C. CERTIFICATE OF LICENSE # P-1993

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



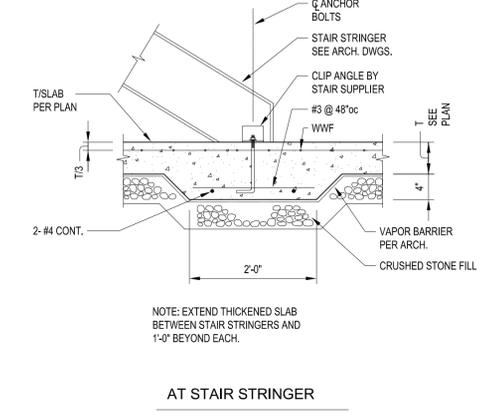
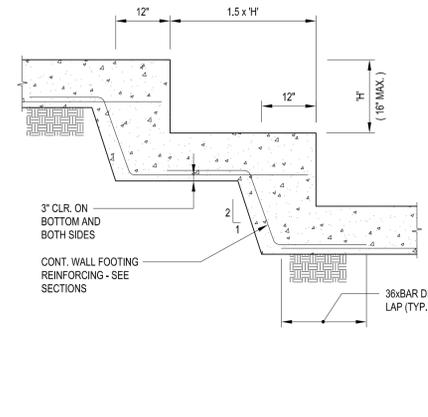
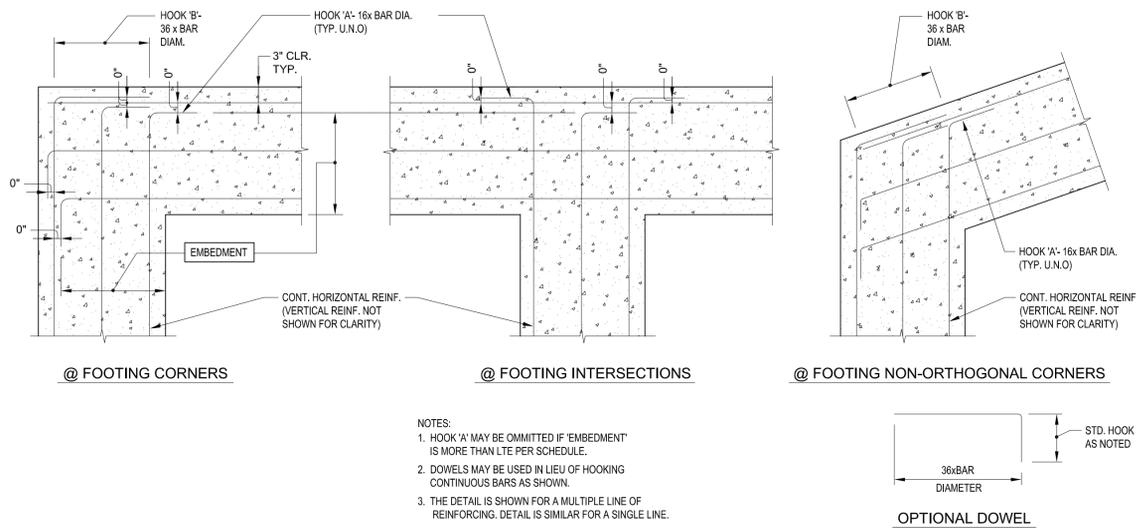
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

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ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION:
GENERAL NOTES

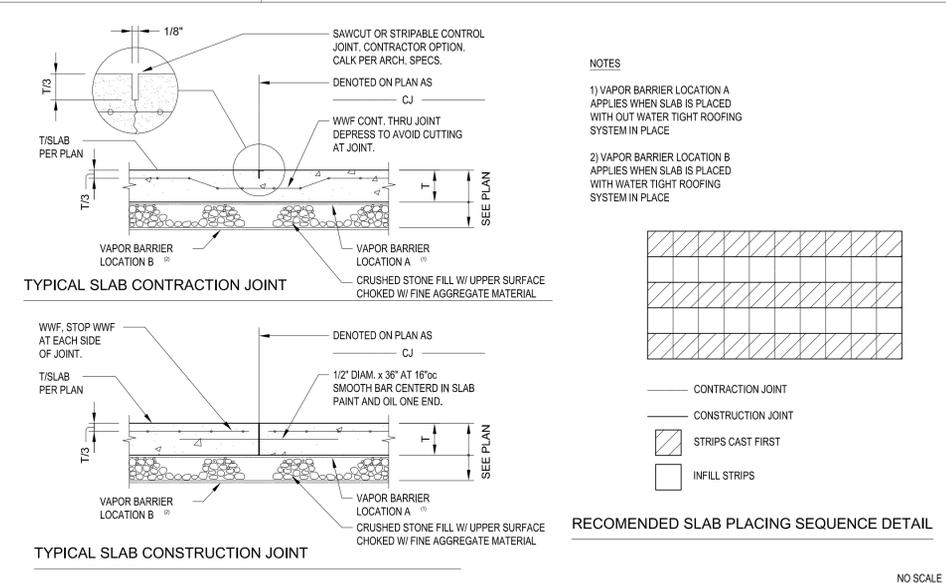
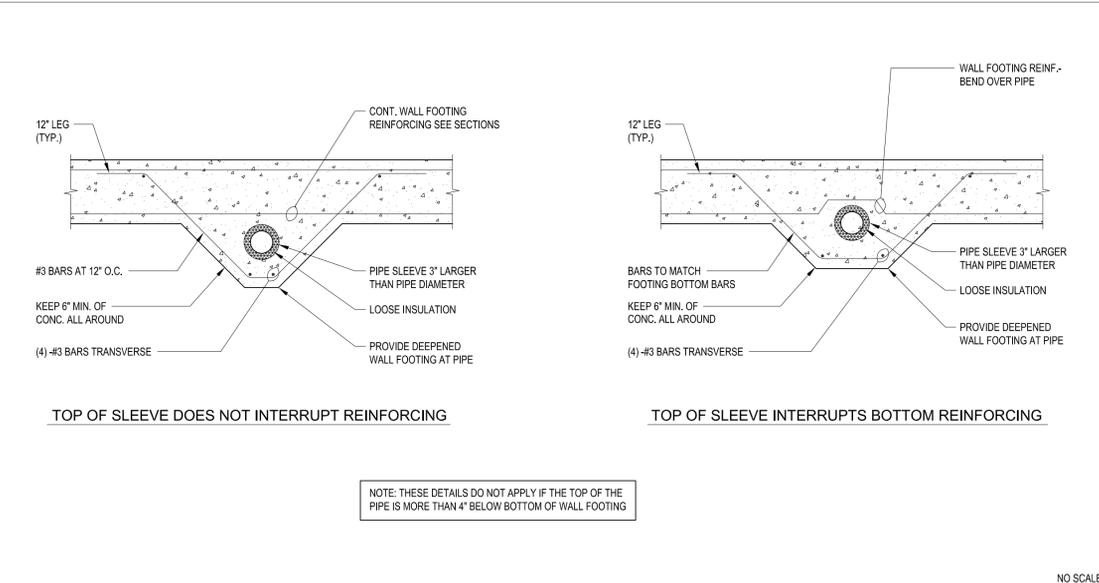
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S-0.00



1 TYP. STRIP FOOTING CORNER INTERSECTION & NON-ORTHOGONAL

2 STEPPED FOOTING

3 TYP. THICKENED SLAB DETAIL



WALL FOOTING SCHEDULE $F_p = 2000 \text{ psf}$

MARK	SIZE (LxWxD)	REINFORCING	REMARKS
WF1	2'-6"x1'-0"	(3) - #5 CONT. BOTT. #5 @ 14" O.C.	
WF2	2'-6"x1'-0"	(3) - #5 TOP & BOTT #5 @ 13" O.C. T & B	

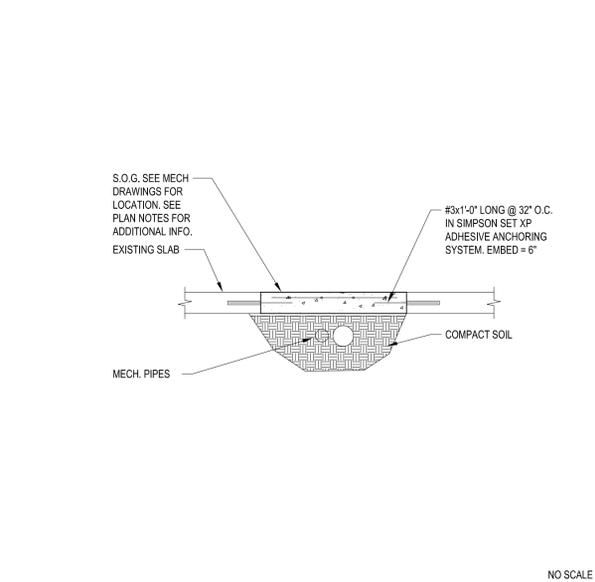
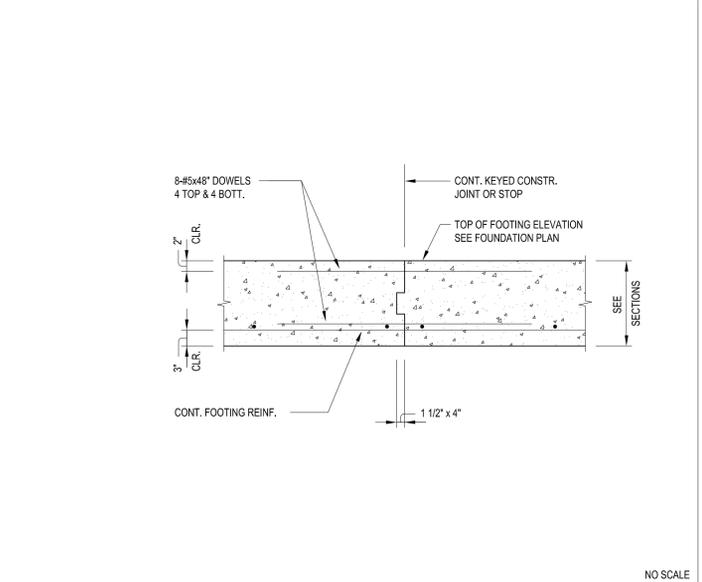
TYPE (WF1) TYPE (WF2)

NO SCALE

4 TYP. STRIP FOOTING CORNER INTERSECTION & NON-ORTHOGONAL

5 TYP. SLAB CONSTRUCTION/ CONTROL JOINT

6 WALL FOOTING SCHEDULE



7 TYP. FOOTING CONST. JOINT

8 TYP. TRENCH DETAIL

F_y = 60,000 PSI F_c = 3,000 PSI CYLINDER STRENGTH

BAR SIZE	COMPRESSION		TENSION EMBEDMENT LENGTH (IN)				TENSION LAP SPLICE LENGTH - CLASS B, (IN)			
	EMBEDMENT LENGTH (IN.)	LAP SPLICE LENGTH (IN.)	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
			I	II	I	II	I	II	I	II
#3	9	12	22	33	17	25	29	43	23	33
#4	11	15	29	43	22	33	38	56	29	43
#5	14	19	36	54	28	42	47	71	37	55
#6	17	23	43	65	33	50	56	85	43	65
#7	20	27	63	94	48	72	82	123	63	94
#8	22	30	72	107	55	83	94	140	72	108
#9	25	34	81	121	62	93	106	158	81	121
#10	28	39	91	136	70	105	119	177	91	137
#11	31	43	101	151	78	116	132	197	102	151
NOTATION	LCE	LCS	LTE				LTS			

CATEGORY	COVER	CLEAR SPACING	REMARKS
I	≥ db	≥ db	BEAM STIRRUPS OR COLUMN TIES THROUGHOUT DEVELOPMENT LENGTH CODE MINIMUM
I	≥ db	≥ 2db	
II		OTHER CASES	

NOTES: FOR EMBEDMENT & SPLICE SCHEDULES
 1. THE CATEGORY OF THE REINFORCEMENT FOR DETERMINING THE EMBEDMENT & SPLICE LENGTHS SHALL BE OBTAINED FROM THE BOTTOM TABLE. (db = BAR DIAMETER)
 2. THE SCHEDULE TO THE LEFT APPLIES FOR NORMAL WEIGHT CONCRETE.
 3. TENSION LAP SPLICE LENGTH CATEGORIES I & II ARE BASED ON ACI CLASS 'B' CONDITIONS. LESSER LENGTHS MAY BE ACCEPTABLE, BUT ONLY IF:
 (a) THE AREA OF REINFORCEMENT PROVIDED IS AT LEAST TWICE THAT REQUIRED BY ANALYSIS OVER THE ENTIRE LENGTH OF THE SPLICE AND
 (b) ONE-HALF OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH. THE CONTRACTOR CAN REQUEST SUCH REDUCTION BY INDICATING THE FOLLOWING:
 A. WHERE THIS SIZE AND NUMBER OF TIES OR SPIRALS PERMITS THE REDUCTION OF LAP LENGTH, THOSE BARS SHALL BE INDICATED ON THE DETAILS.
 B. WHERE COMPUTED STRESS VALUES PERMIT THE REDUCTION OF LAP LENGTH, COMPUTATIONS SHALL BE SUBMITTED FOR REVIEW.
 C. THE APPLICATION SECTION OF THE ACI CODE PERMITTING THE LESSER SPLICE LENGTH, SHALL BE INDICATED ON THE SUBMITTED MATERIAL.
 4. USE TENSION LAP SPLICE LENGTH (L.T.S.) AT ALL SPLICE LOCATIONS NOT SPECIFICALLY DETAILED UNLESS INDICATED OTHERWISE ON PLANS OR DETAILS.
 5. TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
 6. WHERE BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGEST BAR.
 7. FOR BUNDLED BARS INCREASE EMBEDMENT & SPLICE LENGTHS BY 20% FOR 3-BAR BUNDLE AND BY 33% FOR 4-BAR BUNDLE. IN DETERMINING THE CATEGORY OF BUNDLE REINF., TREAT THE BUNDLE AS A SINGLE BAR WITH A DIAMETER DERIVED FROM THE EQUIVALENT TOTAL AREA.
 8. FOR TENSION SPLICING OF #14 BARS USE MECHANICAL COUPLERS. MECHANICAL COUPLERS MUST DEVELOP A MINIMUM OF 125% OF SPECIFIED YIELD STRENGTH (f_y) OF BAR.
 9. WHEN REINFORCING BARS ARE EPOXY-COATED, THE VALUE FOR TENSION EMBEDMENT AND LAP SPLICE LENGTHS FOR TOP BARS SHALL BE INCREASED BY 50% AND THE VALUES FOR THE OTHER BARS SHALL BE INCREASED BY 50%.
 10. SPLICE LENGTHS SHALL BE DIMENSIONED AT ALL LOCATIONS ON ALL SHOP DRAWINGS.

DWG INFO:
 ISSUE DATE: 09/27/24
 PROJECT #: 22105
 DRAWN BY:
 CHECKED BY:

DWG DESCRIPTION:
 TYPICAL DETAILS

SHEET #:
S-1.00

#	REVISIONS	DATE

WALL STUD SCHEDULE			
MARK	LEVEL	STUDS	SPACING
W1	B - ROOF <small>NOTES (H & B)</small>	2 x 6 SPF NO. 2	24" O.C.
	B - 1	(3)2 x 4 SPF NO. 2	24" O.C.
W2	1 - 3	(2)2 x 4 SPF NO. 2	24" O.C.
	3 - ROOF	2 x 4 SPF NO. 2	24" O.C.
W3	1 - ROOF	2 x 4 SPF NO. 2	24" O.C.

- NOTES:
- 2x6 STUDS WITH SAME SPECIES AND GRADE CAN BE SUBSTITUTED FOR 2x4 STUDS WHERE INDICATED ON ARCH DWGS. TO ACCOMMODATE M.E.P. CHASES, ETC.
 - SPF DENOTES SPRUCE-PINE-FIR.
 - BRACE AT 1/3 POINTS.
 - BRACE AT MID-POINT.
 - NO ADDITIONAL BRACING REQUIRED WHERE WALL TYPE IS WITHIN A SHEAR WALL.

FASTENING REQUIREMENTS FOR MULTIPLE MEMBERS				
PIECES IN MEMBER	MAX. SPAN	NAILED 16d COMMON	MAX. SPAN	NAILED 16d COMMON
2	20'	2 ROWS AT 12" oc	20'	2 ROWS AT 24" oc STAGGER AT 12"
	30'	3 ROWS AT 12" oc	40'-6"	2 ROWS AT 12" oc
3	15'	2 ROWS AT 12" oc	15'	2 ROWS AT 24" oc STAGGER AT 12"
	22'-6"	3 ROWS AT 12" oc	30'	2 ROWS AT 12" oc
4	-	N / A	13'-6"	2 ROWS AT 24" oc STAGGER AT 12"
	-	N / A	27'	2 ROWS AT 12" oc

- NOTES:
- TOP AND BOTTOM ROWS OF CONNECTORS SHALL BE 2" FROM EDGE
 - BOLT HOLES ARE TO BE THE SAME DIAMETER AS THE BOLT. EVERY BOLT MUST BOLT HOLES ARE EXTEND THROUGH THE FULL THICKNESS OF THE MEMBER. USE WASHERS UNDER HEAD AND NUT. CARRIAGE BOLTS MAY BE USED, BUT THE OUTERMOST OF THE HEAD MAY NOT BE DRAWN IN BEYOND FLUSH WITH THE OUTSIDE FACE OF THE LVL MEMBER.
 - FOR THREE-PIECE MEMBER, SPECIFIED NAILING IS FROM EACH SIDE.
 - FOUR-PLY MEMBERS, REGARDLESS OF DEPTH, MUST BE BOLTED.

TYP. WOOD HEADER SCHEDULE				
WALL STUDS	ROUGH OPENING WIDTH "W"	SIZE	2x4 STUD WALLS	
			JACKS	KINGS
2x4	"W" ≤ 3'-0"	(2) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	SINGLE
2x4	3'-0" < "W" < 6'-0"	(2) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	DOUBLE
2x4	6'-0" < "W" < 9'-0"	(2) 2x10 w/ 1/2" PLYWOOD PL	DOUBLE	DOUBLE
2x4	9'-0" < "W" < 12'-0"	(2) 1 3/4" X 11" LVL	DOUBLE	TRIPLE
2x4	12'-0" > "W"	SEE SECTIONS	---	---

TYP. WOOD HEADER SCHEDULE				
WALL STUDS	ROUGH OPENING WIDTH "W"	SIZE	2x6 STUD WALLS	
			JACKS	KINGS
2x6	"W" ≤ 3'-0"	(3) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	SINGLE
2x6	3'-0" < "W" < 6'-0"	(3) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	DOUBLE
2x6	6'-0" < "W" < 9'-0"	(3) 2x10 w/ 1/2" PLYWOOD PL	DOUBLE	DOUBLE
2x6	9'-0" < "W" < 12'-0"	(3) 1 3/4" X 11" LVL	DOUBLE	TRIPLE
2x6	12'-0" > "W"	SEE SECTIONS	---	---

NOTE:
SEE "LOOSE LINTEL" SCHEDULE FOR BRICK SHELF ANGLES

JOIST SCHEDULE		
MARK	MEMBER	SPACING
J1	2 x 10 SPF NO.2	16" OC

- NOTES:
- WHERE DOUBLE JOISTS ARE REQUIRED, PROVIDE "TYPICAL POST" AT EACH END. SEE POST SCHEDULE ON S1.00 SERIES SHEETS.
 - 2x8 BLOCKING OR 2x12 BLOCKING @ 6'-0" O.C. MAX AS BRIDGING.



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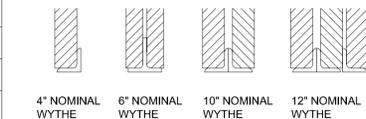
1 WALL STUD SCHEDULE

2 FASTENING REQUIREMENTS

3 WOOD HEADER SCHEDULE

4 JOIST SCHEDULE

STEEL LINTEL SCHEDULE				
CLEAR OPENING	ONE ANGLE FOR EA. 4" FOR 4", 8" & 12" WALLS	6" WALL	10" WALL	MIN. BRG.
0'-8" TO 3'-4"	L 3 1/2 x 3 1/2 x 1/4	WT 5 x 6	(2) L 4 x 4 x 1/4	4"
3'-4" TO 5'-4"	L 4 x 3 1/2 x 1/4 (LLV)	WT 5 x 6	(2) L 4 x 4 x 5/16	6"
5'-4" TO 7'-4"	L 5 x 3 1/2 x 5/16 (LLV)	WT 7 x 11	(2) L 6 x 4 x 1/4 (LLV)	8"
7'-4" TO 10'-0"	L 6 x 3 1/2 x 5/16 (LLV)	WT 7 x 13	(2) L 6 x 4 x 5/16 (LLV)	8"



- NOTES:
- WHERE LINTELS BEAR ON HOLLOW MASONRY UNITS FILL ALL CORES UNDER BEARING WITH GROUT FROM BOTTOM OF LINTEL TO 16" MIN. BELOW LINTEL.
 - THESE LINTELS ARE NOT DESIGNED FOR LINTELS THAT CARRY FLOOR LOAD.
 - ALL LINTELS ARE GALVANIZED UNLESS NOTED OTHERWISE.

WOOD BEAM SCHEDULE		
MARK	SIZE	POST
B1	(2)2x12 SPF NO.2	SEE PLAN
B2	(2)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN
B3	(3)1-3/4x14 LVL (2.0E)	SEE PLAN
B4	(2)2x10 SPF NO.2	SEE PLAN
B5	(3)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN

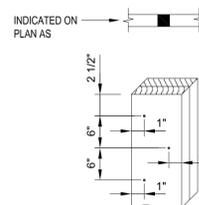
- NOTES:
- SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS.
 - SEE TYPICAL POST SCHEDULE & ELEVATION ON S1.00 SERIES SHEETS
 - IF NO POST IS SHOWN ON PLAN, USE (2) WALL STUDS UNDER BEAM

WOOD HEADER SCHEDULE			
MARK	SIZE	JACKS	KINGS
H1	(3)1-3/4x9-1/4 LVL (2.0E)	TRIPLE	DOUBLE
H2	(3)2x12 SPF NO.2	DOUBLE	DOUBLE

- NOTES:
- SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS.

5 STEEL LINTEL SCHEDULE

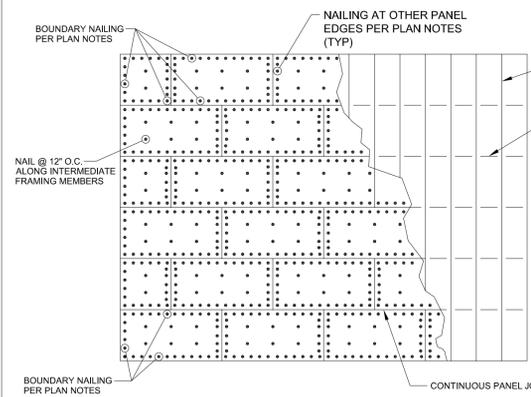
CONNECTION, LOCATION	NAIL	NUMBER OR SPACING
BAND JOIST TO SILL OR TOP PLATE, TOE NAIL	8d	6" o.c.
JOIST TO BAND JOIST, FACE NAIL	16d COMMON	3
JOIST TO SILL OR GIRDER, TOE NAIL	8d COMMON	3
BRIDGING TO JOIST, TOE NAIL, EACH END	8d COMMON	2
LEDGER STRIP	16d COMMON	3 AT EACH JOIST
1x6 OR LESS SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	2
OVER 1x6 SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	3
2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	16d COMMON	2
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d COMMON	16" O.C.
TOP OR SOLE PLATE TO STUD, END NAIL	16d COMMON	2
STUD TO SOLE PLATE, TOE NAIL	8d COMMON	4
DOUBLED STUDS, FACE NAIL	10d COMMON	24" O.C.
DOUBLED TOP PLATES, FACE NAIL	10d COMMON	16" O.C.
TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL	16d COMMON	2
CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" O.C. ALONG EDGE
CEILING JOISTS TO PLATE, TOENAIL	8d COMMON	3
CONTINUOUS HEADER TO STUD, TOENAIL	8d COMMON	4
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16d COMMON	3
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16d COMMON	3
RAFTER TO PLATE, TOE NAIL	8d COMMON	3
1-INCH BRACE TO EACH STUD AND PLATE, FACE NAIL	8d COMMON	2
WIDER THAN 1x8 SHEATHING TO EACH BEARING, FACE NAIL	8d COMMON	3
BUILT-UP CORNER STUDS	16d COMMON	24" O.C.
BUILT-UP GIRDER OR BEAMS, THREE MEMBERS	20d COMMON	3/2" O.C. TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
2" PLANKS, AT EA. BEARING	16d COMMON	2
COLLAR TIE TO RAFTER, FACE NAIL	10d COMMON	3
JACK RAFTER TO HIP, TOE NAIL OR FACE NAIL	10d COMMON	3
	16d COMMON	2
ROOF RAFTER TO 2-by RIDGE BEAM, TOE NAIL OR FACE NAIL	16d COMMON	2
	16d COMMON	2
JOIST TO BAND JOIST, FACE NAIL	16d COMMON	3



WOOD POST SCHEDULE			
MARK	POST	CONNECTION	
		BASE	CAP
P1	6x6 SPF NO. 2	PBS66	CC64/ECC64
P2	5.25x5.25 PSL 2.0E	PBS66	CC64/ECC64
P3	(3)2x6 SPF NO. 2		
P4	HSS3-1/2x3-1/2x3/16		
P5	4x4 SPF NO. 2	PBS44	CC44/ECC44
P6	3.5x3.5 PSL 2.0E	PBS44	CC44/ECC44
P7	3.5x5.25 PSL 2.0E	PBS46	CC46
P8	(3)2x4 SPF NO. 2		

ALL POSTS SHALL BE SPRUCE PINE FIR-NO. 2 OR BETTER USED TO BUILD UP STUDS SHALL BE 10d COMMON WIRE NAILS W/ MINIMUM DIAMETER= 0.148 IN. AND MINIMUM LENGTH= 3 IN. SEE NAILING SCHEDULE BELOW

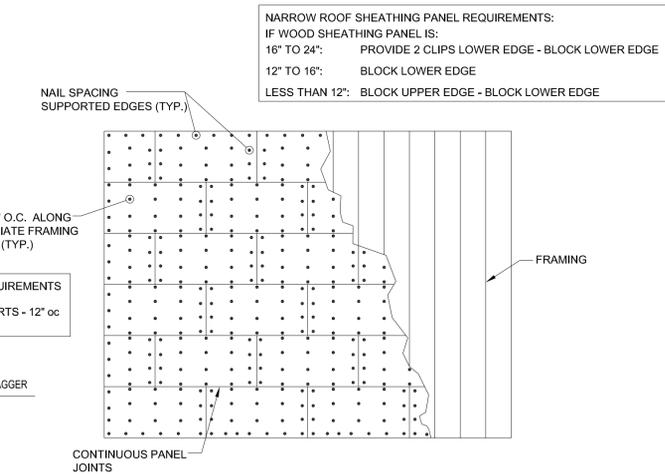
6 WOOD BEAM SCHEDULE



DECKING LAYOUT @ BLOCKED DIAPHRAGMS

- NOTES:
- BOUNDARY NAILING SHALL INCLUDE NAILING OVER LENGTH OF SHEAR WALLS
 - BOUNDARY NAILING SHALL INCLUDE NAILING ALONG ALL CONTINUOUS PANEL JOINTS
 - BOUNDARY NAILING SHALL INCLUDE NAILING ENTIRE PERIMETER OF DECKING
 - SPACE PANELS 1/8" MINIMUM FOR PANEL EXPANSION (ENDS AND EDGES)

7 WOOD HEADER SCHEDULE



DECKING LAYOUT @ UNBLOCKED DIAPHRAGMS

- NOTES:
- SUPPORTED EDGE NAILING SHALL INCLUDE NAILING OVER LENGTH OF SHEAR WALLS
 - SUPPORTED EDGE NAILING SHALL INCLUDE NAILING ENTIRE PERIMETER OF DECKING
 - SPACE PANELS 1/8" MINIMUM FOR PANEL EXPANSION (ENDS AND EDGES)

8 NAIL FASTENER SCHEDULE

9 POST SCHEDULE

10 TYPICAL DECKING LAYOUT DETAILS

SIGNATURE:

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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
Hendersonville, North Carolina

#	REVISIONS	DATE

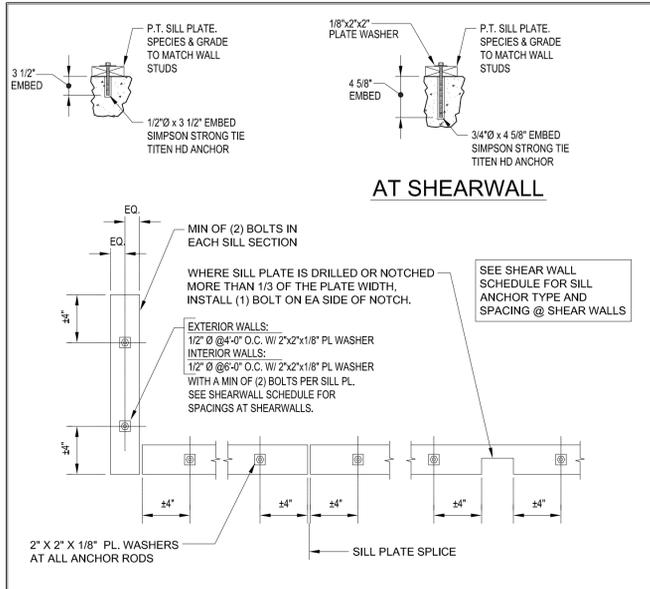
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ISSUE DATE: 09/27/24
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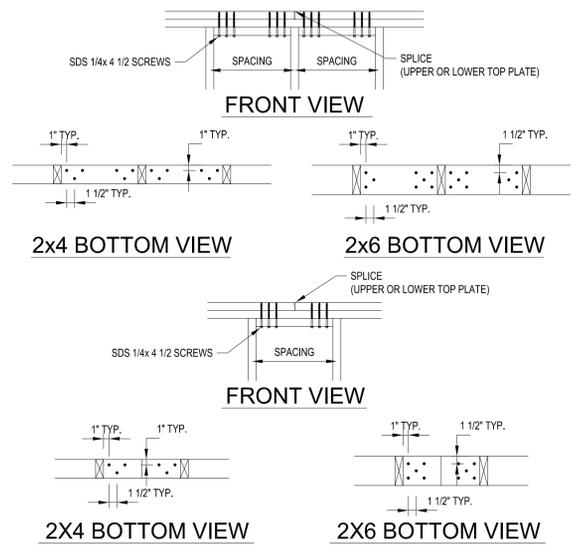
TYPICAL DETAILS

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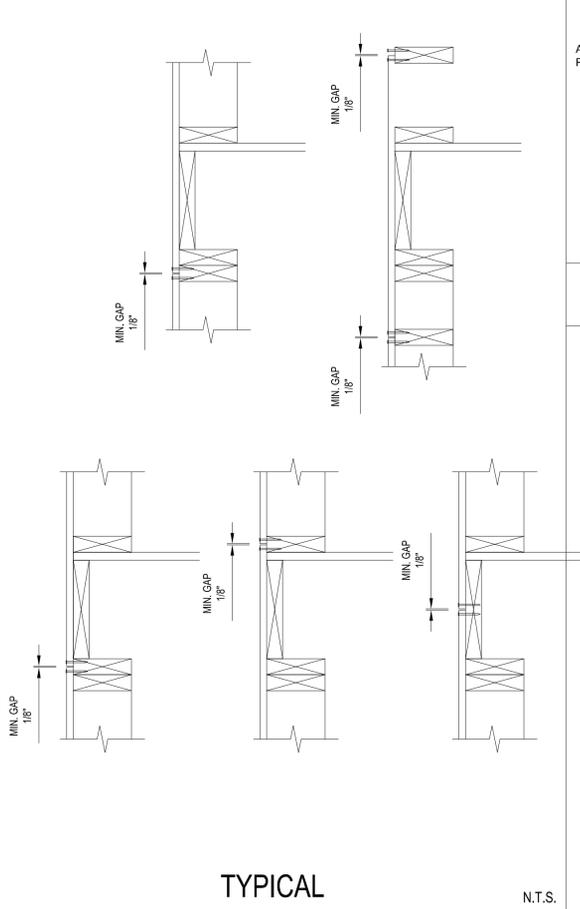
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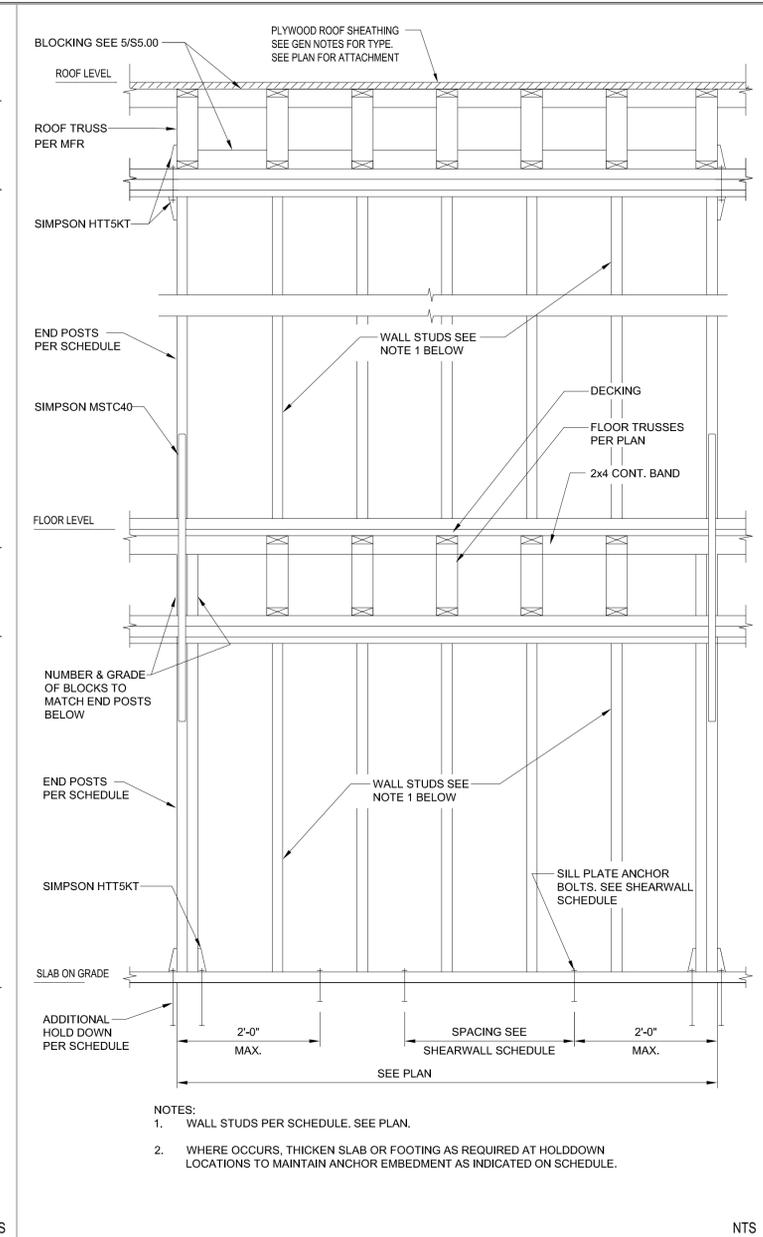
1 TYP. SILL PLATE BOLTING @ S.O.G.



2 TYPICAL SHEARWALL
2 PANEL NAILING / SCREWING

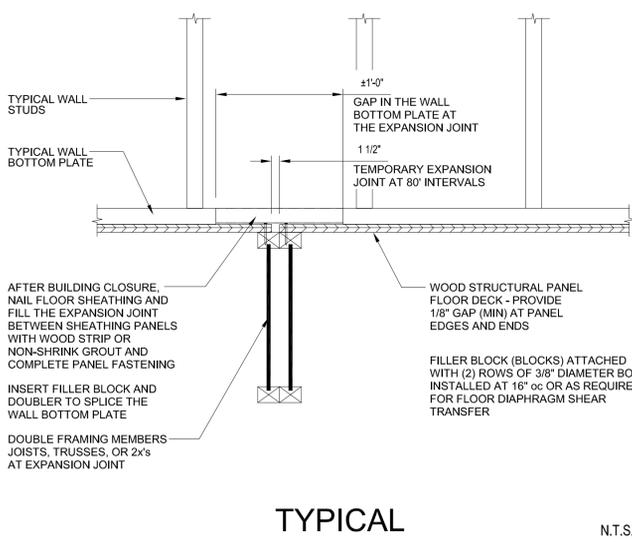


3 SW1 & SW2 ELEVATION

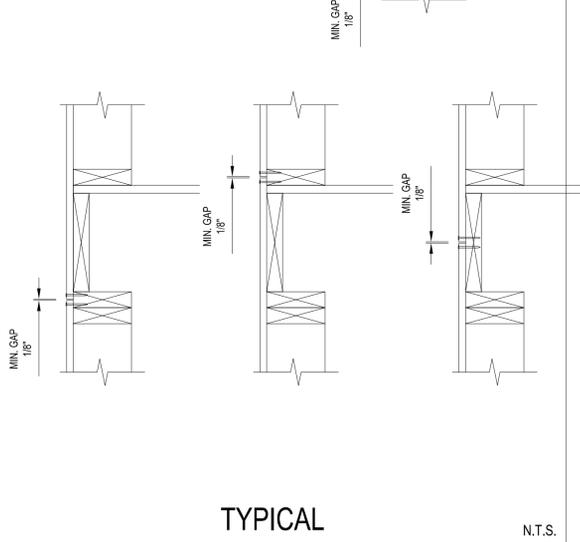


4 SW3 ELEVATION

5 TOP PLATE SPLICE DETAILS



6 FLOOR EXPANSION JOINT



7 STORY TO STORY SHEATHING

3 SHEARWALL SCHEDULE

MARK	FLOOR	PANEL TYPE SEE ARCH ASSEMBLY	# OF PANELS (NOTE #3)	PANEL NAILING			BLOCKING REQUIRED (NOTE #4)	END POST (NOTE #2)	SILL PLATE ANCHORING
				NAIL SIZE	EDGE SUPPORT NAIL SPACING	INTERMEDIATE SUPPORT NAIL SPACING			
SW-1	B-3	7/16\" PLYWOOD	SINGLE	8d	4\" O.C.	12\" O.C.	YES	(2)2x6 SPF NO.2	3/4\" Ø x 4 5/8\" EMBED TITEN HD @32\" O.C.
	3-Roof	7/16\" PLYWOOD	SINGLE	8d	6\" O.C.	12\" O.C.	YES	(2)2x6 SPF NO.2	
SW-2	B-3	5/8\" GYP.	SINGLE	6d COOLER	6\" O.C.	6\" O.C.	YES	(4)2x4 SPF NO.2	3/4\" Ø x 4 5/8\" EMBED TITEN HD @32\" O.C.
	3-Roof	5/8\" GYP.	SINGLE	6d COOLER	6\" O.C.	6\" O.C.	YES	(3)2x4 SPF NO.2	
SW-3	B-3	5/8\" GYP.	SINGLE	6d COOLER	6\" O.C.	6\" O.C.	YES	(4)2x4 SPF NO.2	3/4\" Ø x 4 5/8\" EMBED TITEN HD @32\" O.C.
	3-Roof	5/8\" GYP.	SINGLE	6d COOLER	6\" O.C.	6\" O.C.	YES	(3)2x4 SPF NO.2	

NOTES:
1. SEE 8/S1.2 FOR PERFORATED SHEAR WALL ELEVATION.
2. END POST HOLD DOWN, USE SIMPSON HTT4 W/ 5/8\"Ø KWIK BOLT 3 (EMBED = 4\")
3. \"SINGLE\" INDICATES PLYWOOD SHEATHING ON ONE SIDE OF WALL STUDS.
4. ALL FOUR SIDES OF EACH PANEL MUST BE CONTINUOUSLY BLOCKED (TYPICAL)

8 SHEARWALL SCHEDULE

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704.887.7072 fax: 704.887.6260
http://jdhengineers.com
NC CERTIFICATE OF LICENSE # P-1993

Orchards PROPERTIES

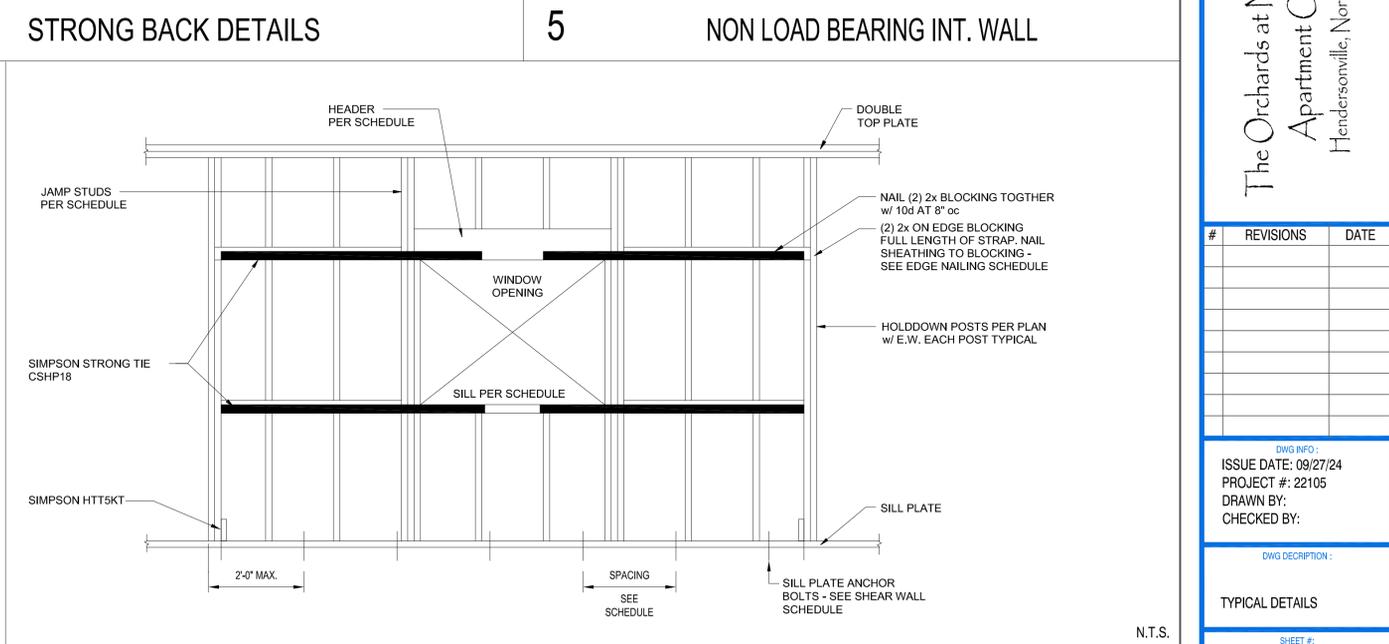
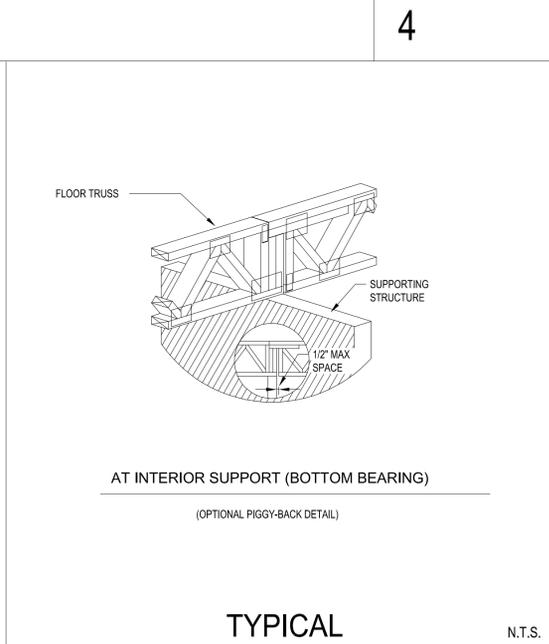
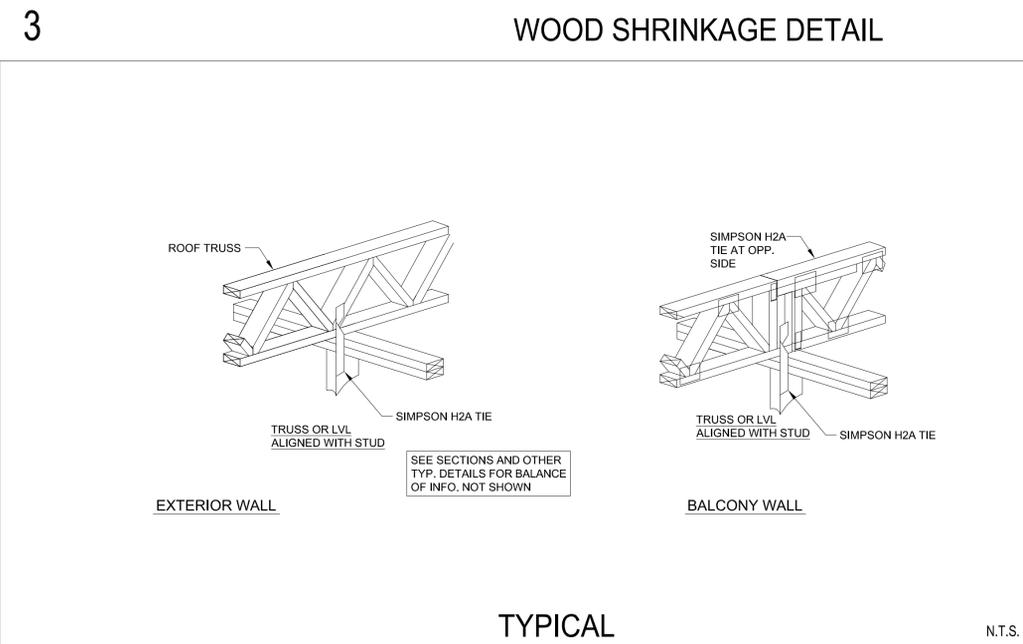
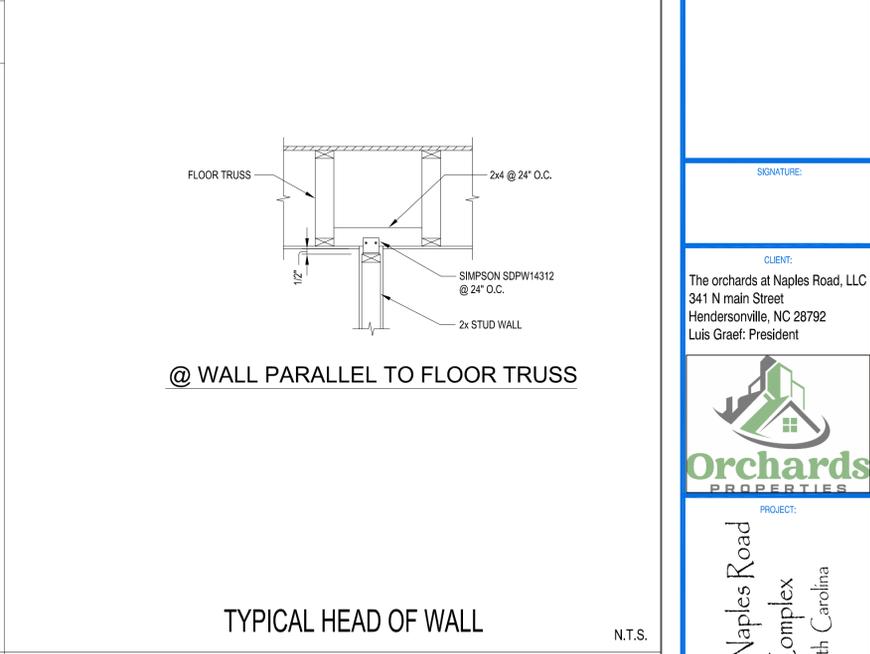
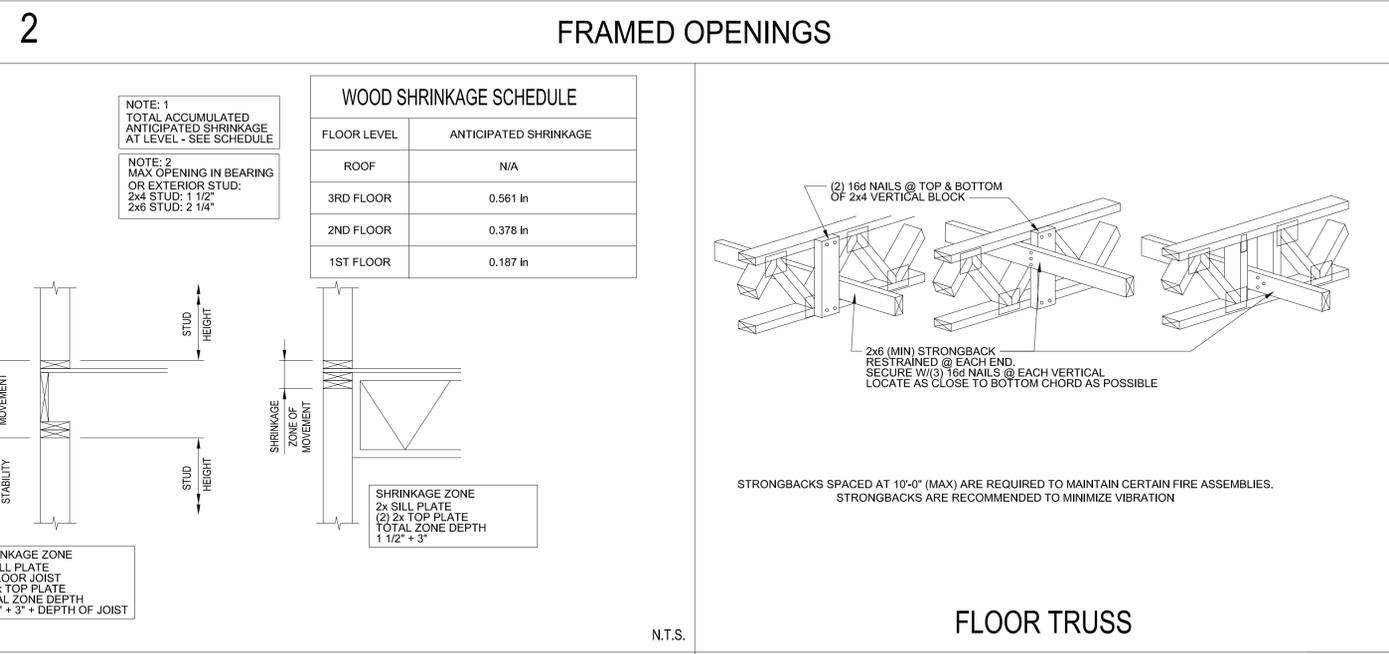
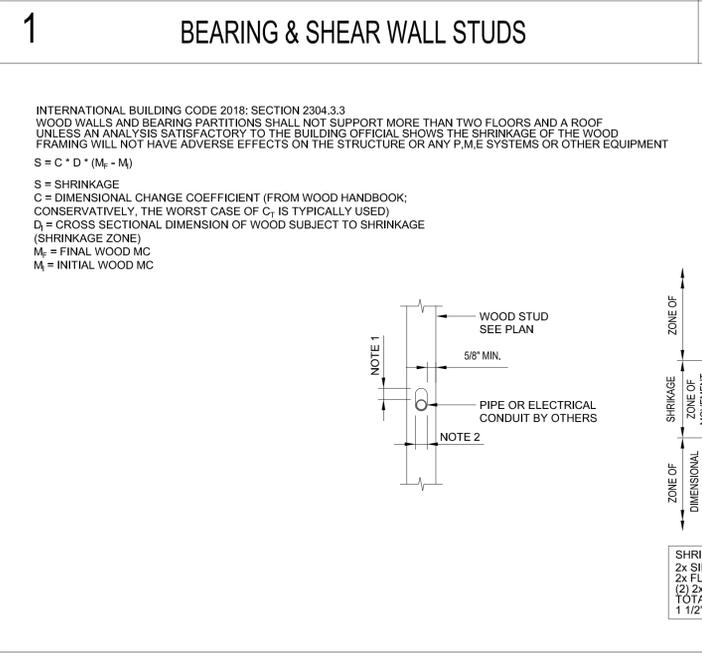
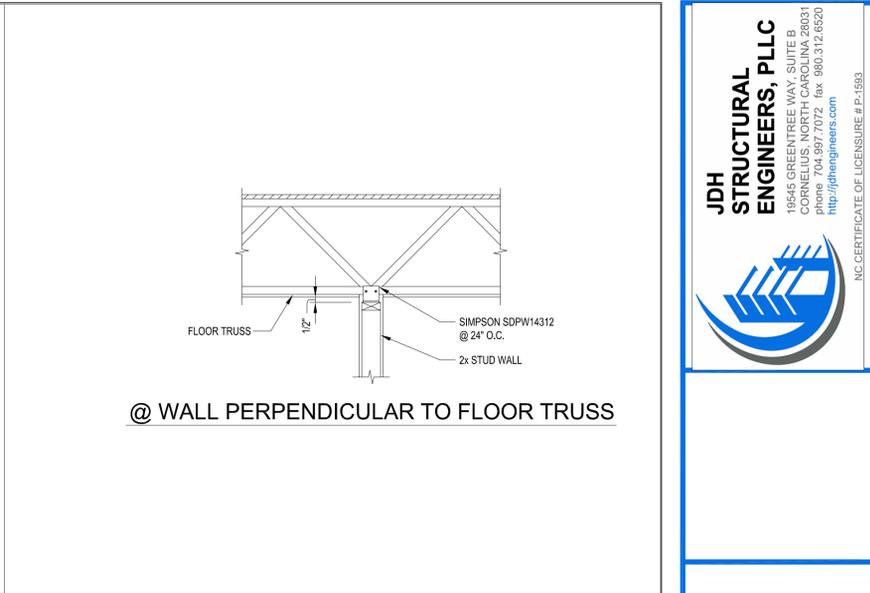
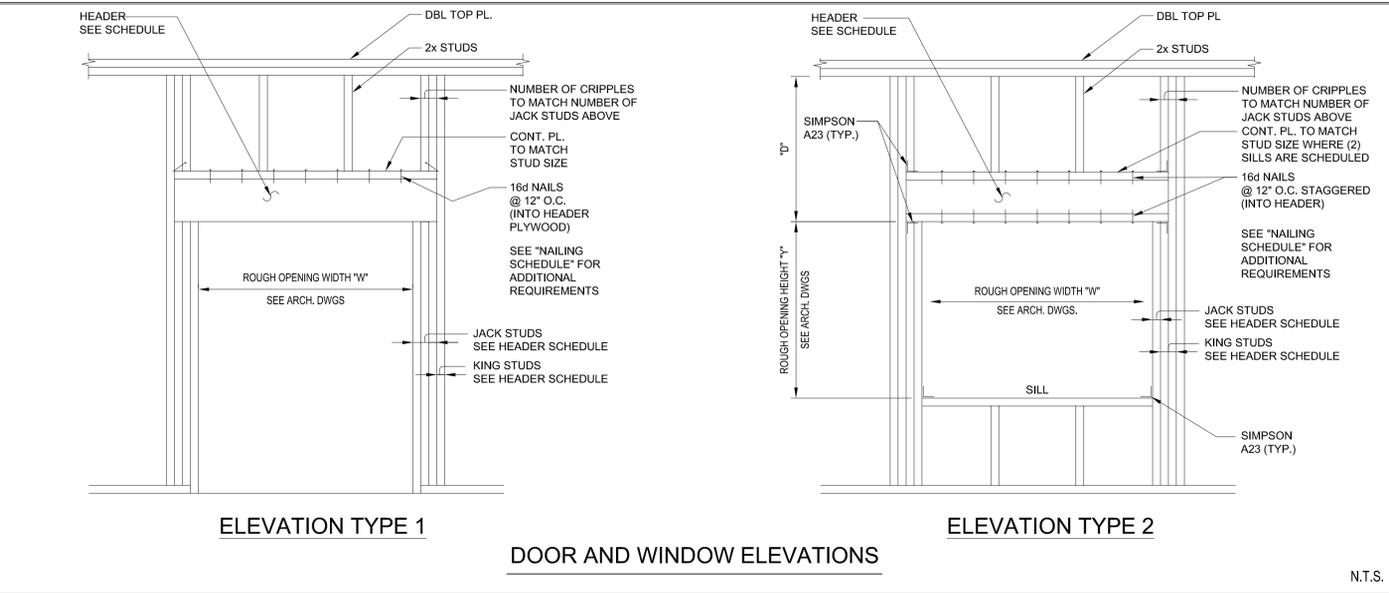
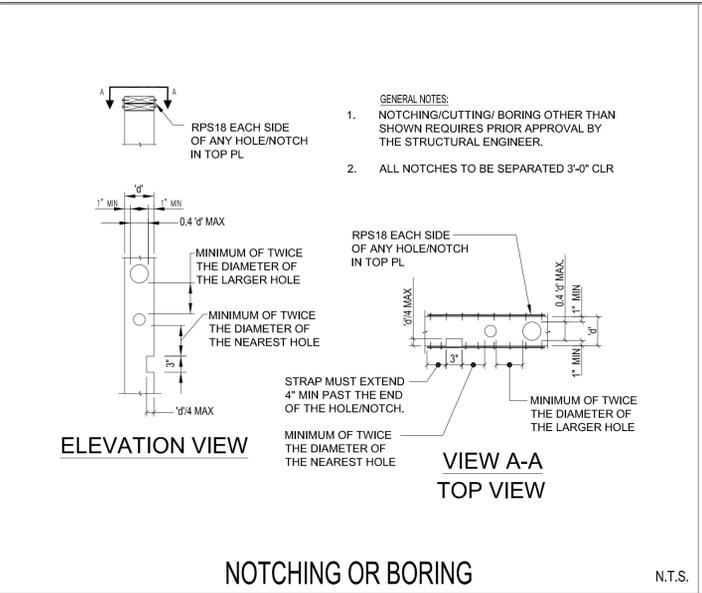
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

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

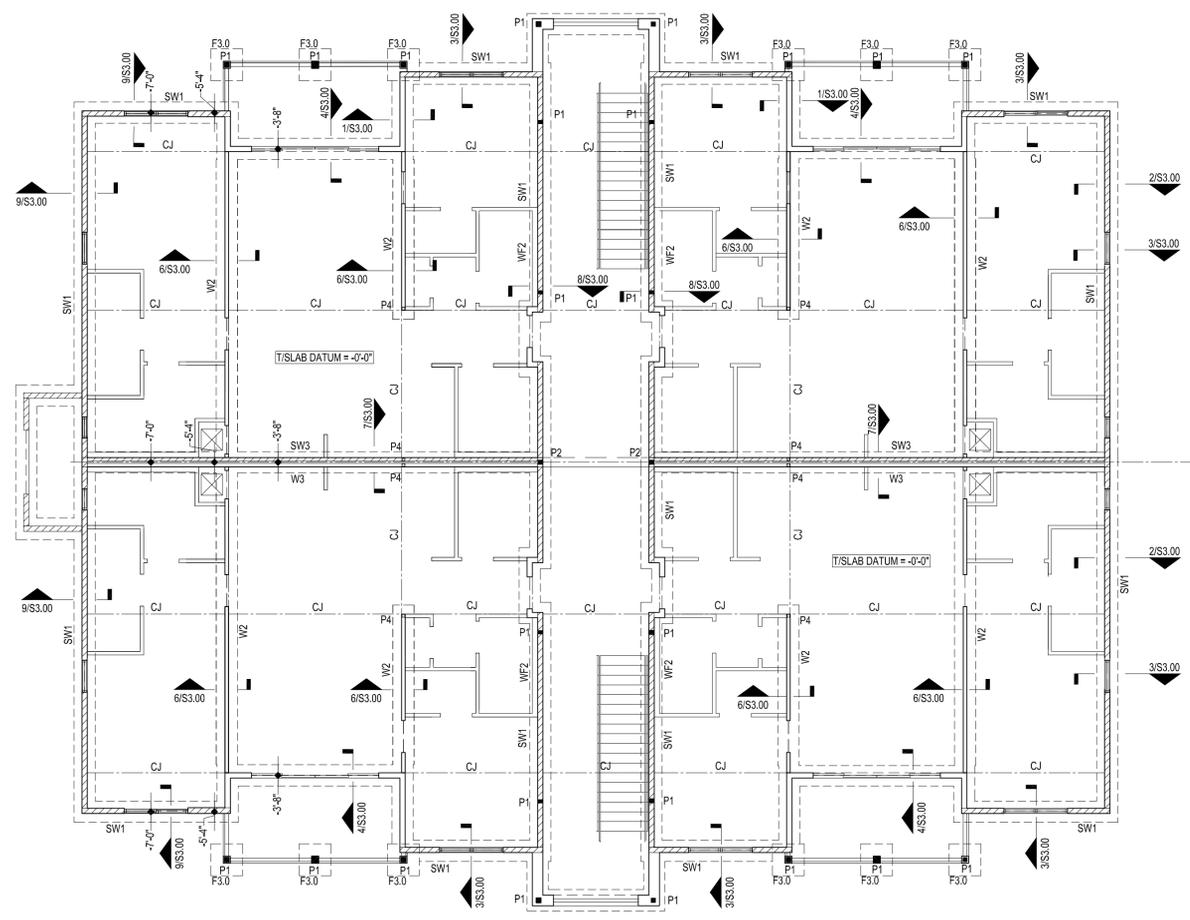
DWG INFO:
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION:
TYPICAL DETAILS

SHEET #:
S-1.02



#	REVISIONS	DATE



FIRST FLOOR FOUNDATION & FRAMING PLAN
SCALE: 1/8" = 1'-0"

LEGEND:

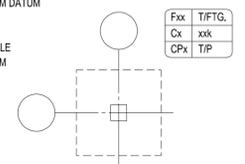
1. INDICATES STEP IN FOOTING
2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
3. INDICATES SHEAR WALL LOCATION AND LABEL
4. INDICATES LOAD BEARING WALL AND LABEL
5. INDICATES NON-STRUCTURAL WALL
6. INDICATES LOAD BEARING WALL BELOW
7. INDICATES WALL OPENING
8. INDICATES WALL OPENING BELOW
9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
10. *Jx* INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
11. *Bx* INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
12. *Rjx* INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
13. INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.
14. INDICATES CMU WALL

FOUNDATION PLAN NOTES:

1. T/SL DATUM ELEVATION IS 0'-0". ELEVATIONS FOR FOOTINGS, SLABS, STEEL WALLS, FLOORS, ELEVATOR PITS, ETC. ARE REFERENCED + OR - FROM DATUM ELEVATION (I.E. T/SL +2'-6", TW -5'-3", T/STL -6'11", ETC.).
2. T/FTG ELEVATIONS SHOWN ON PLAN ARE FOR STRIP AND SPREAD FOOTINGS. T/FTG ELEVATION AROUND PERIMETER SHALL BE -1'-4" U.N.O. WITH FOOTING STEPS SHOWN IN RELATIVE LOCATIONS. SEE S1.00 SERIES SHEETS "TYPICAL DETAILS" FOR FOOTING STEP AND SPACING REQUIREMENTS.
3. TYPICAL SLAB ON GRADE (S.O.G.) IS 4" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (FLAT SHEETS) ON 6" CRUSHED STONE BASE. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS. SEE S2.00 FOR SLAB CONTROL JOINT LAYOUT.
4. SUPPORT WWF AT 1" FROM TOP OF S.O.G. WITH SAND PLATES (CHAIRS WITH PLATE BASES) OR OTHER ACCEPTABLE DEVICES. BRICKS ARE NOT PERMITTED.
5. NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (f'c= 2000psi) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.
6. CONTRACTOR SHALL SHORE ALL WALLS RECEIVING BACKFILL ON ONLY ONE SIDE OR RECEIVING UNEQUAL LEVELS OF BACKFILL ON OPPOSITE SIDES, UNLESS NOTED OTHERWISE IN THE DETAILS. ANY WALLS FOR WHICH SHORING IS INDICATED AS REQUIRED IN THE PLANS OR DETAILS SHALL BE SHORED REGARDLESS OF BACKFILL CONDITIONS.
7. MASONRY SHOWN ON STRUCTURAL DRAWINGS DEFINES ONLY THE EXTENT AND REQUIREMENTS OF MASONRY UTILIZED FOR STRUCTURAL PURPOSES (I.E. BEARING WALLS, SHEAR WALLS, RETAINING WALLS, FOUNDATION WALLS, COLUMNS, ETC.).
8. W1 TYP U.N.O., W1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.
9. ALL STUDS TO ALIGN W/ TRUSSES

10. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
11. REFER TO ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
12. SEE S1.00 SERIES SHEETS FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS"; TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
13. SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.
14. SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
15. ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
16. FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:

Fxx = FOOTING MARK PER SCHEDULE
T/FTG. = TOP OF FOOTING ELEVATION FROM DATUM
Cx = COLUMN MARK PER SCHEDULE
xxk = COLUMN LOAD (kips) (ASD)
CPx = CONCRETE PIER MARK PER SCHEDULE
T/P = TOP OF PIER ELEVATION FROM DATUM



SIGNATURE:

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



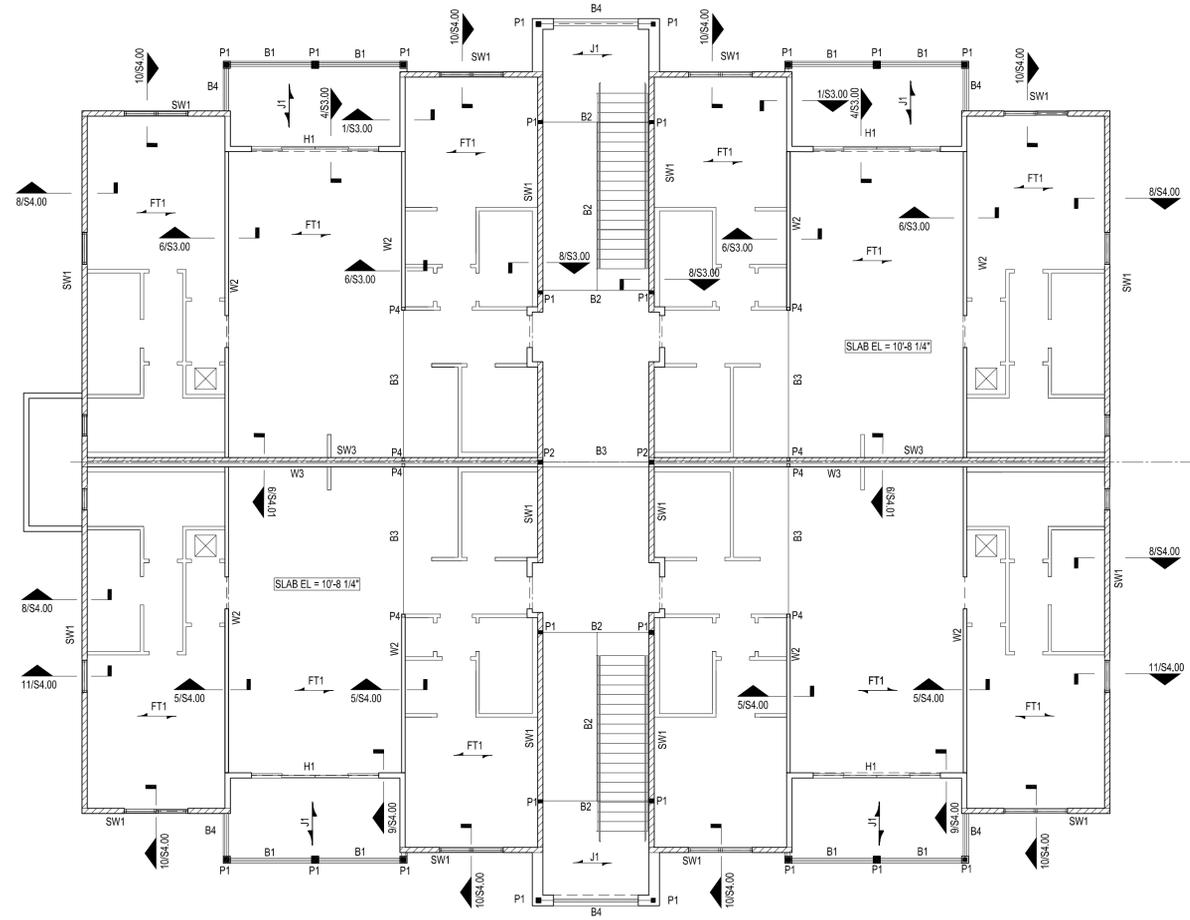
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION:
BUILDING 2 FIRST FLOOR
FOUNDATION/FRAMING PLAN

SHEET #:
S-2.01



SECOND FLOOR FRAMING PLAN

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

LEGEND:

1. INDICATES STEP IN FOOTING
2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
3. INDICATES SHEAR WALL LOCATION AND LABEL
4. INDICATES LOAD BEARING WALL AND LABEL
5. INDICATES NON-STRUCTURAL WALL
6. INDICATES LOAD BEARING WALL BELOW
7. INDICATES WALL OPENING
8. INDICATES WALL OPENING BELOW
9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
10. *Jx* INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
11. *Bx* INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
12. *RJx* INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
13. INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

1. SEE PLAN FOR FINISHED FLOOR ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (-X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM.
2. WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
3. WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.
4. SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.
5. TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
7. SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
8. SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
9. SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
10. SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
11. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
12. ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
13. SEE S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O. USE BLOCKED DIAPHRAGM FOR SHADED AREA. USE 10d NAILS WITH 2" BOUNDARY SPACING IN BOTH DIRECTIONS.
14. INDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.
15. INDICATES SHEAR WALL LOCATION AND LABEL
16. ALL STUDS TO ALIGN W/ TRUSSES
17. FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

SIGNATURE:

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



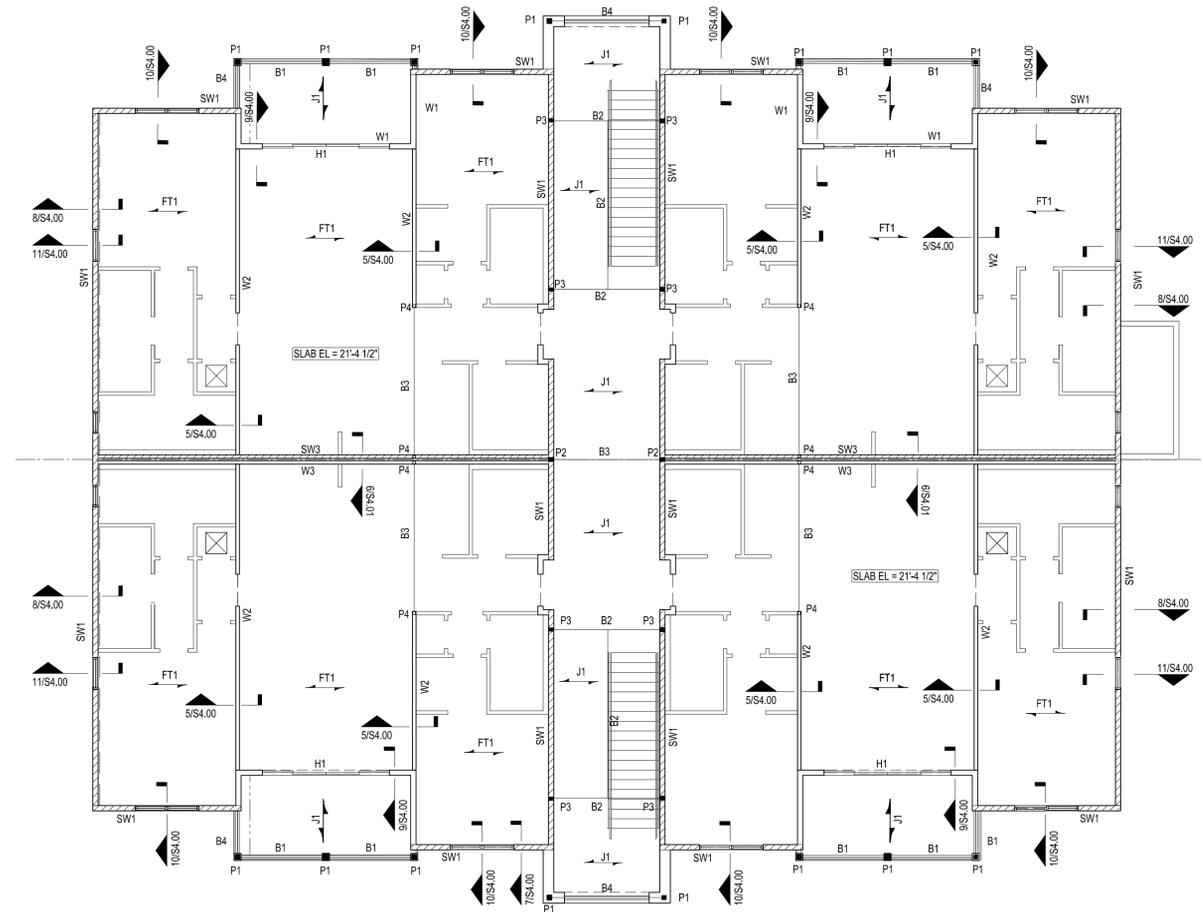
PROJECT:
 The Orchards at Naples Road
 Apartment Complex
 Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
 ISSUE DATE: 09/27/24
 PROJECT #: 22105
 DRAWN BY:
 CHECKED BY:

DWG DESCRIPTION:
 BUILDING 2 SECOND FLOOR FRAMING PLAN

SHEET #:
S-2.02



THIRD FLOOR FRAMING PLAN

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

LEGEND:

1. INDICATES STEP IN FOOTING
2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
3. INDICATES SHEAR WALL LOCATION AND LABEL
4. INDICATES LOAD BEARING WALL AND LABEL
5. INDICATES NON-STRUCTURAL WALL
6. INDICATES LOAD BEARING WALL BELOW
7. INDICATES WALL OPENING
8. INDICATES WALL OPENING BELOW
9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
10. *Jx* INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
11. *Bx* INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
12. *Rjx* INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
13. INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

1. SEE PLAN FOR FINISHED FLOOR ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (+X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM.
2. WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
3. TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
4. WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.
5. SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.
6. TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
7. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
8. SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
9. SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
10. SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
11. SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
12. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
13. ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
14. SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS. USE UNBLOCKED DIAPHRAGM U.N.O. USE BLOCKED DIAPHRAGM FOR SHADED AREA.
 USE 10d NAILS WITH 2" BOUNDARY SPACING IN BOTH DIRECTIONS.
15. INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.
16. INDICATES SHEARWALL LOCATION AND LABEL
17. ALL STUDS TO ALIGN W/ TRUSSES
18. FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS
19. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S1-1.02 FOR SHEARWALLS W/ OPENINGS.

SIGNATURE:

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



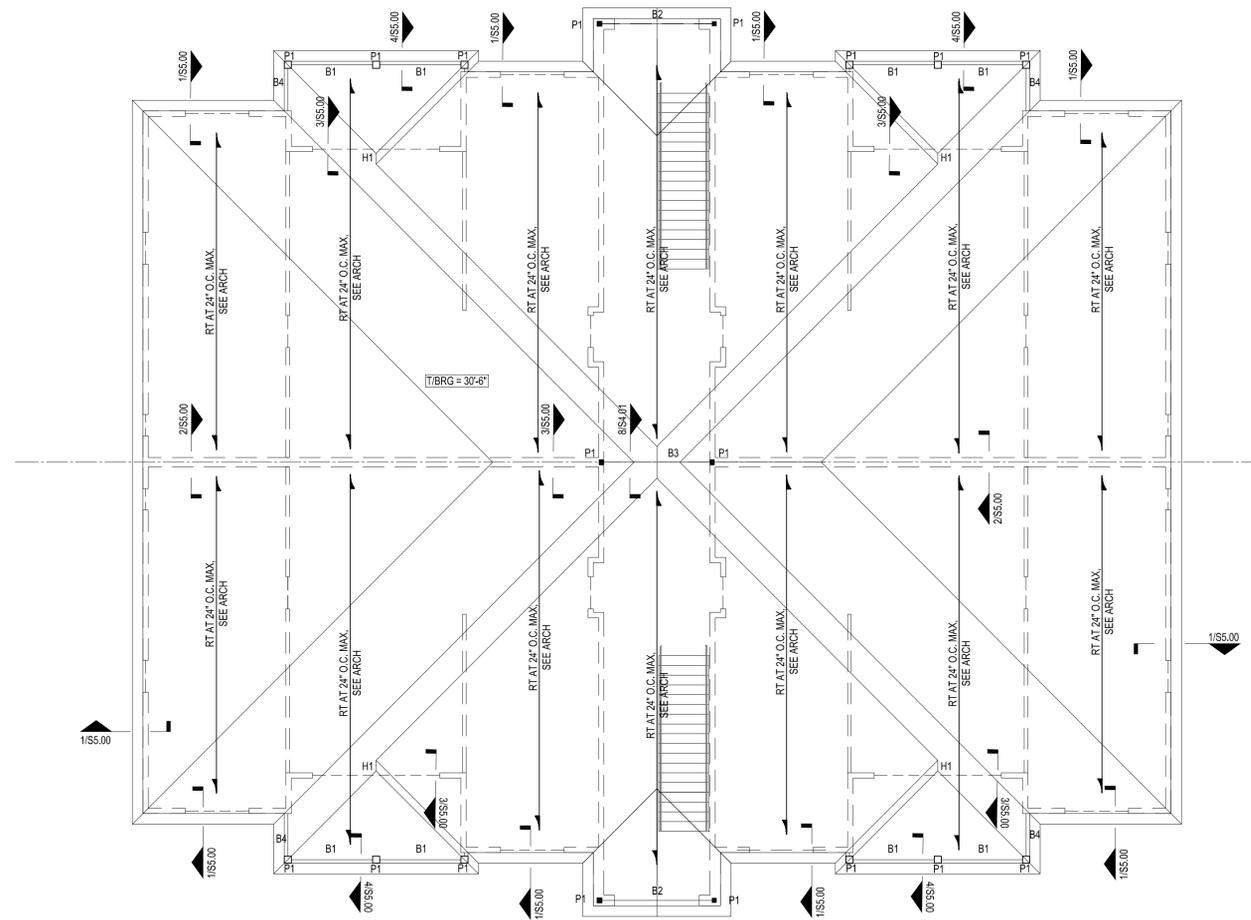
PROJECT:
 The Orchards at Naples Road
 Apartment Complex
 Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
 ISSUE DATE: 09/27/24
 PROJECT #: 22105
 DRAWN BY:
 CHECKED BY:

DWG DESCRIPTION:
 BUILDING 2 THIRD
 FLOOR FRAMING PLAN

SHEET #:
S-2.03



ROOF FRAMING PLAN

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

LEGEND:

1. INDICATES STEP IN FOOTING
2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
3. INDICATES SHEAR WALL LOCATION AND LABEL
4. INDICATES LOAD BEARING WALL AND LABEL
5. INDICATES NON-STRUCTURAL WALL
6. INDICATES LOAD BEARING WALL BELOW
7. INDICATES WALL OPENING
8. INDICATES WALL OPENING BELOW
9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
10. *Jx* INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
11. *Bx* INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
12. *RJx* INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
13. INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

ROOF FRAMING PLAN NOTES:

1. SEE PLAN FOR TRUSS BEARING ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (-X-X') OR (-X-X'') AS REFERENCED FROM NOMINAL DATUM.
2. WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
3. TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
4. WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.
5. SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.
6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
7. SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
8. SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
9. SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
10. SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
11. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF WALL U.N.O.
12. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.
13. SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O.
14. INDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.
15. MAU-1 AND MAU-2 DENOTES ROOF TOP UNITS, SEE MECH. DRAWINGS FOR LOCATION AND EQUIPMENT WEIGHT. JOIST SUPPLIER TO DESIGN TO SUIT. SEE S1.00 FOR ROOF LOADS.
16. SEE 1/S1.05 FOR WALL OPENINGS
17. ALL STUDS TO ALIGN W/ TRUSSES
18. FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

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: 09/27/24
 PROJECT #: 22105
 DRAWN BY:
 CHECKED BY:

DWG DESCRIPTION:
 BUILDING 2 ROOF FRAMING PLAN

SHEET #:
S-2.04

SIGNATURE:

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



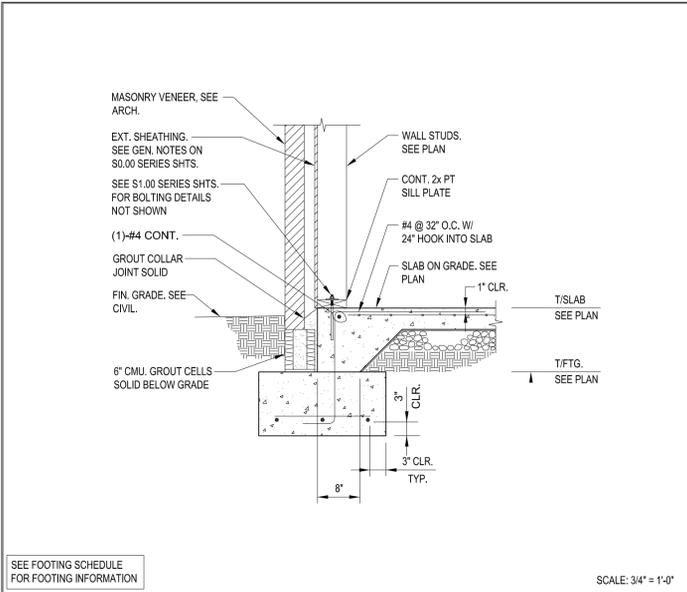
PROJECT:
 The Orchards at Naples Road
 Apartment Complex
 Hendersonville, North Carolina

#	REVISIONS	DATE

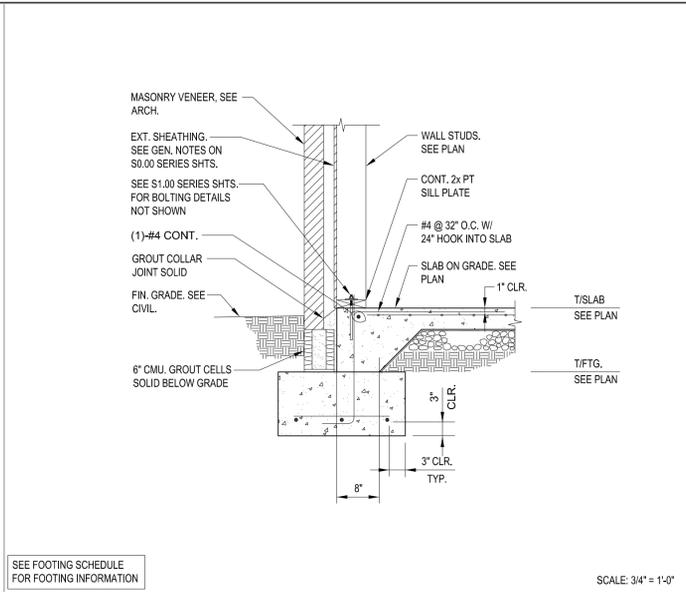
DWG INFO:
 ISSUE DATE: 09/27/24
 PROJECT #: 22105
 DRAWN BY:
 CHECKED BY:

DWG DESCRIPTION:
 FOUNDATION SECTIONS

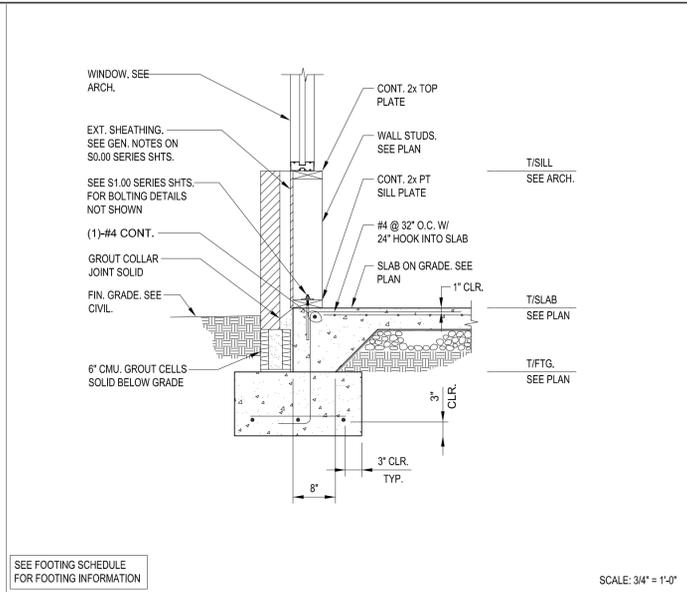
SHEET #:
S-3.00



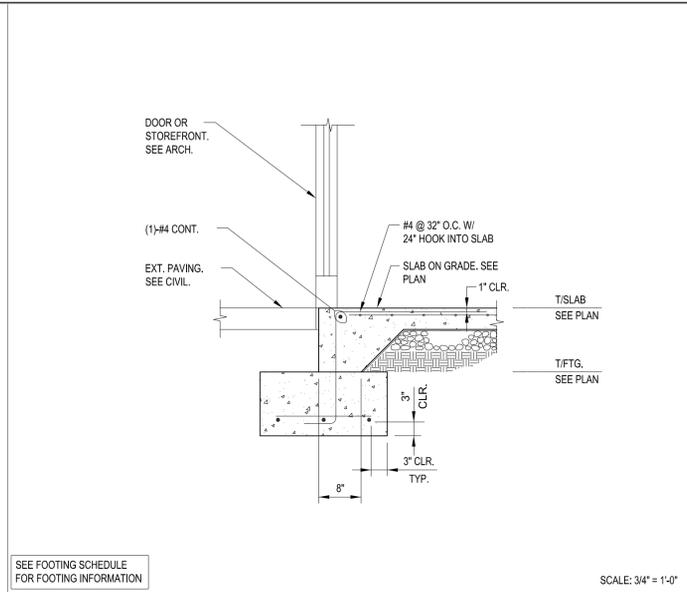
SEE FOOTING SCHEDULE FOR FOOTING INFORMATION SCALE: 3/4" = 1'-0"



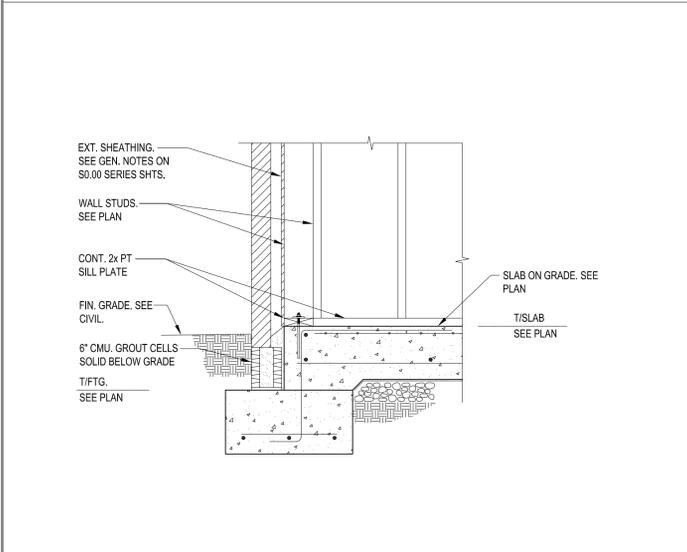
SEE FOOTING SCHEDULE FOR FOOTING INFORMATION SCALE: 3/4" = 1'-0"



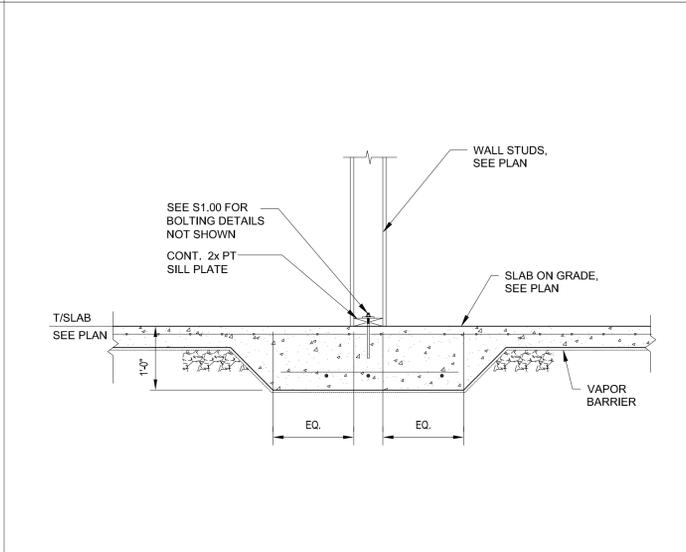
SEE FOOTING SCHEDULE FOR FOOTING INFORMATION SCALE: 3/4" = 1'-0"



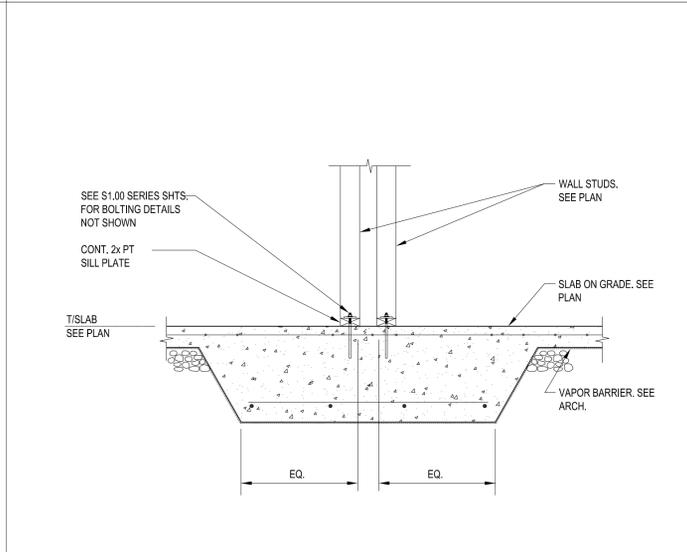
SEE FOOTING SCHEDULE FOR FOOTING INFORMATION SCALE: 3/4" = 1'-0"



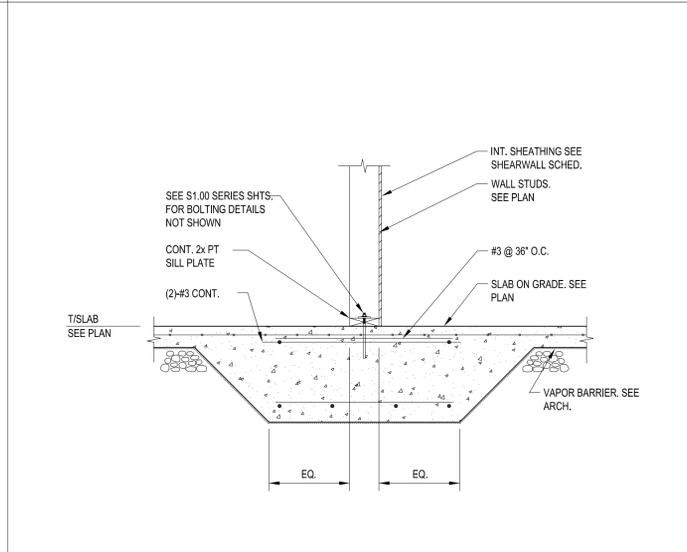
SEE FOOTING SCHEDULE FOR FOOTING INFORMATION SCALE: 3/4" = 1'-0"



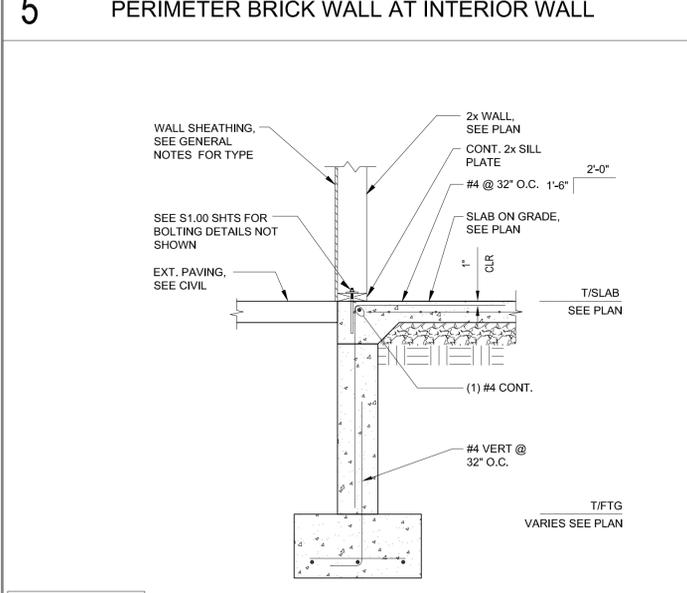
SEE FOOTING SCHEDULE FOR FOOTING INFORMATION SCALE: 3/4" = 1'-0"



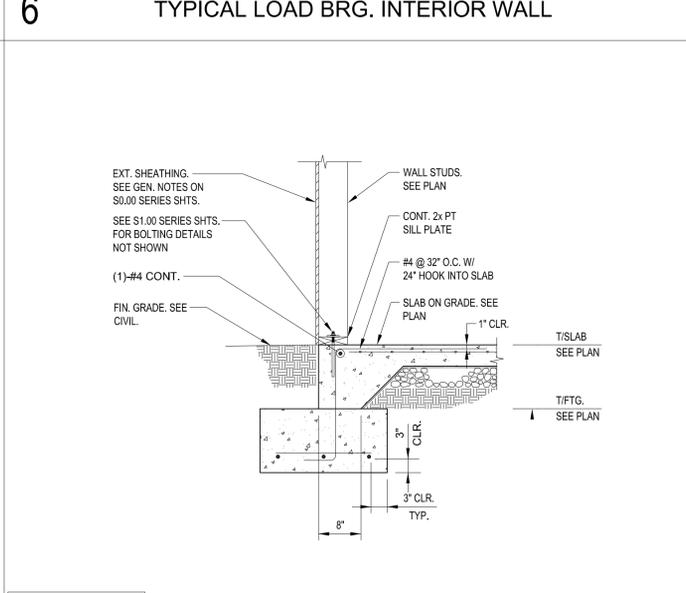
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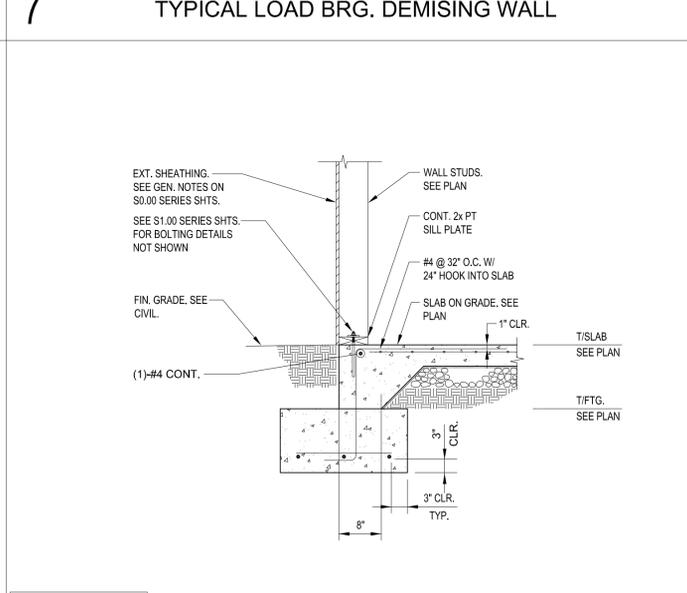
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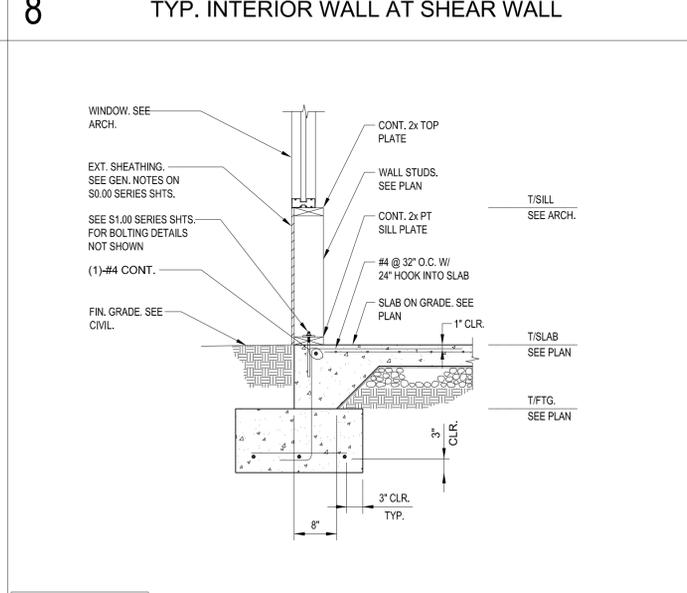
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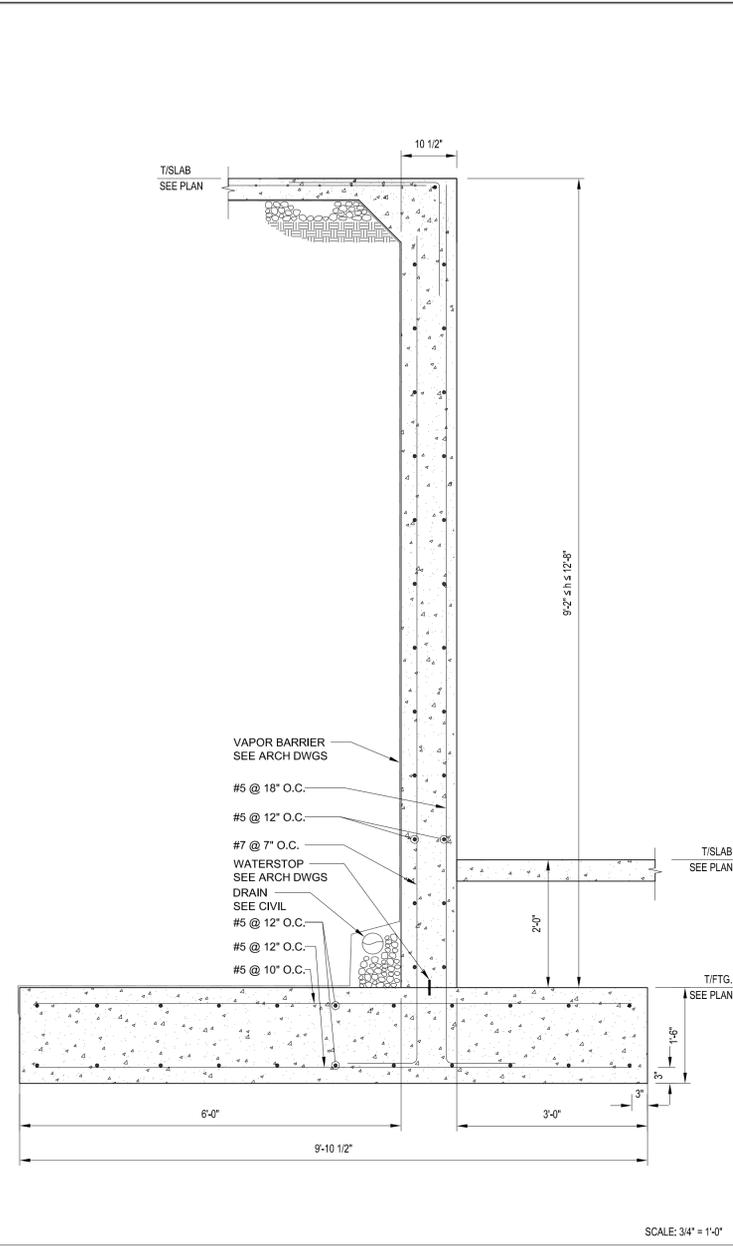
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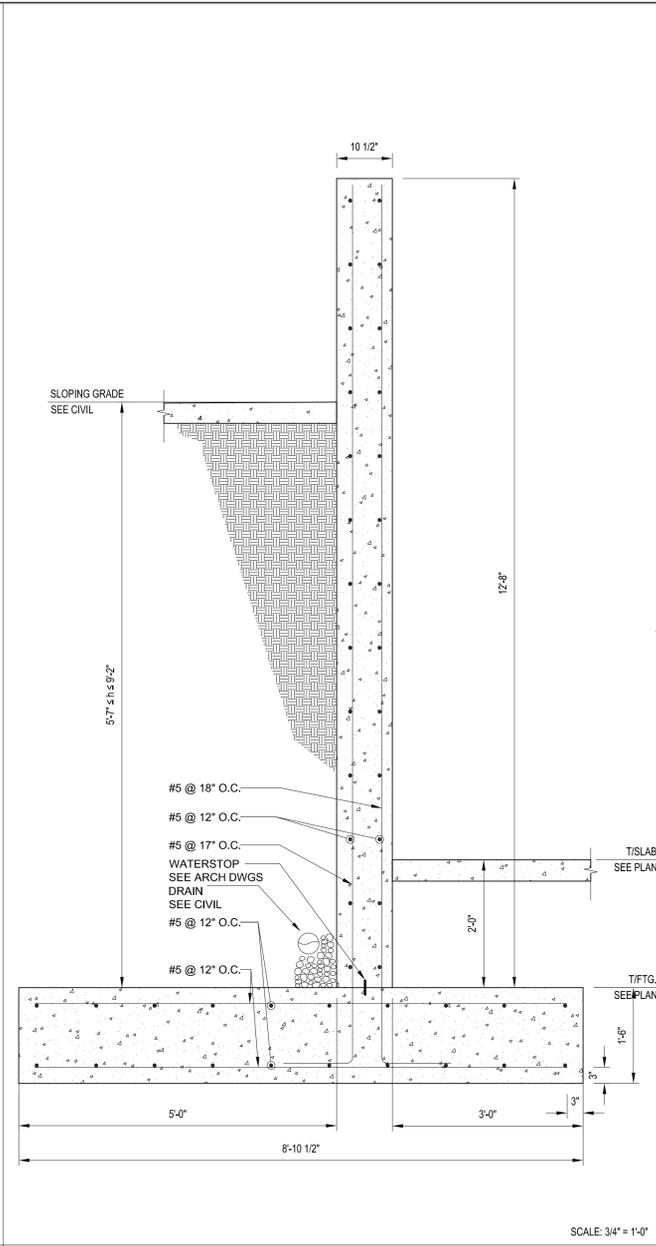
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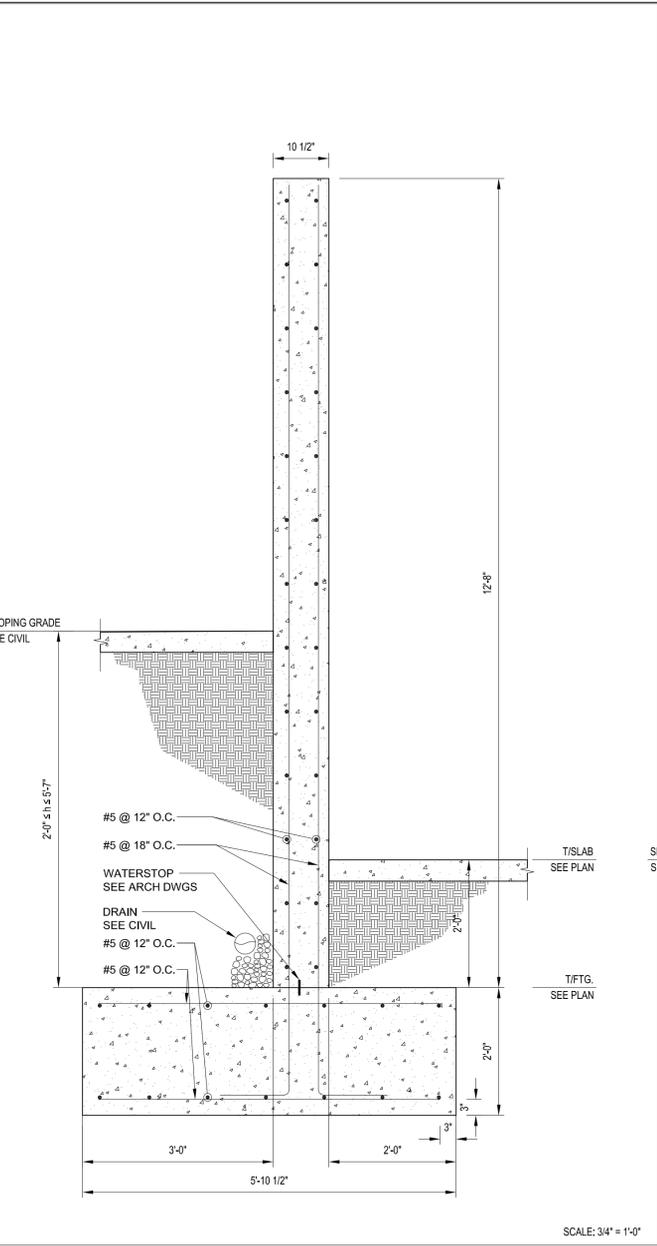
SEE FOOTING SCHEDULE FOR FOOTING INFORMATION SCALE: 3/4" = 1'-0"



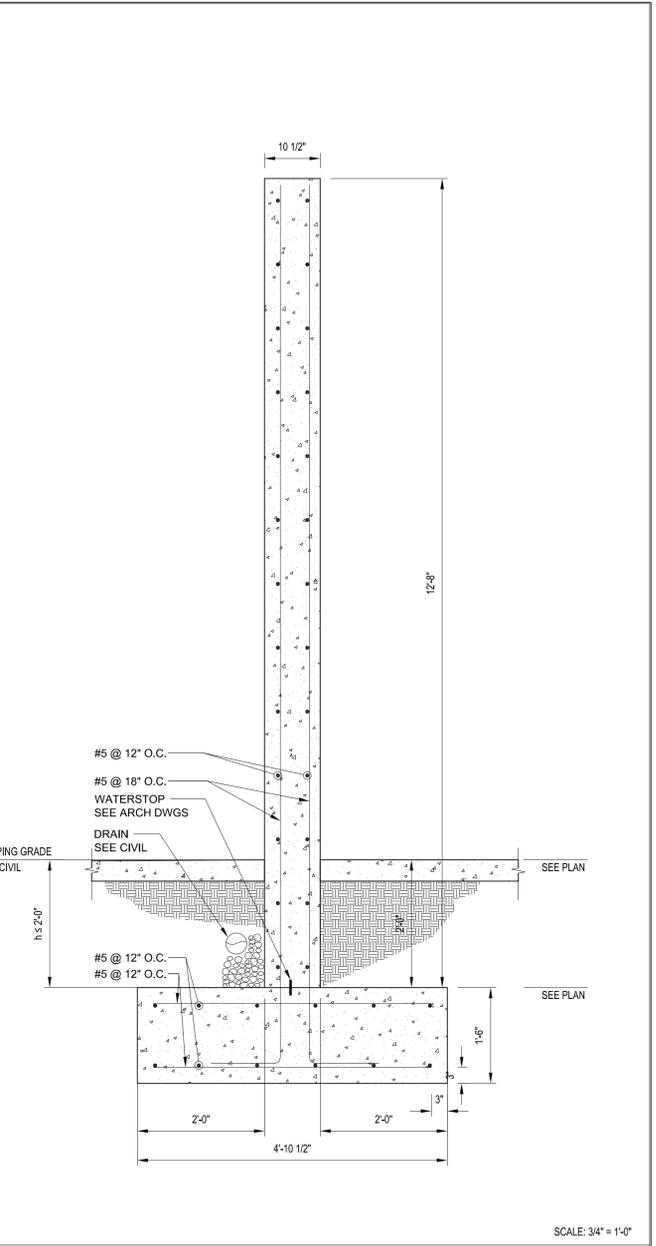
1 RETAINING WALL 1



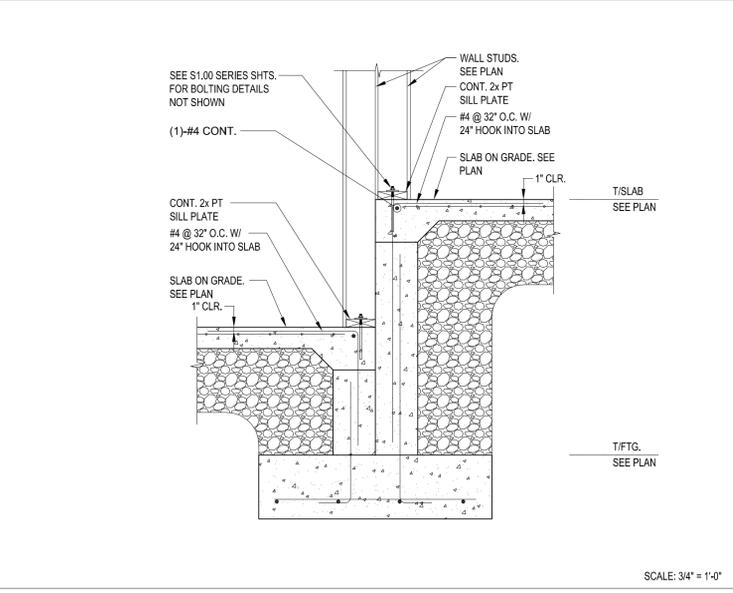
2 RETAINING WALL 2



3 RETAINING WALL 3

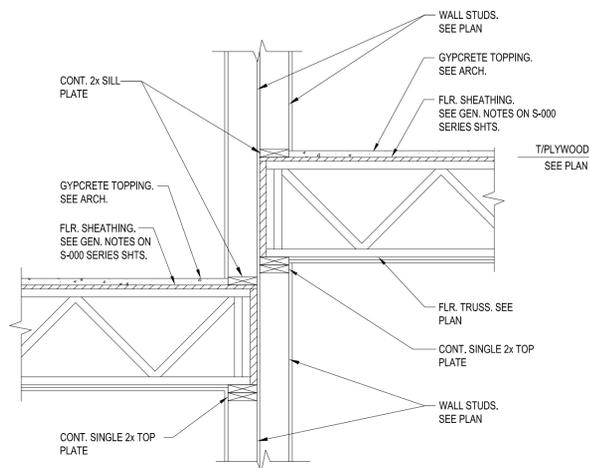


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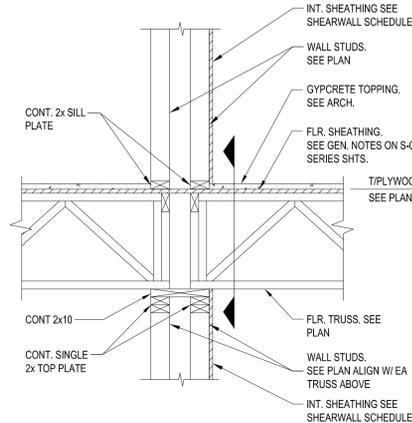
5 FOUNDATION WALL SECTION

#	REVISIONS	DATE



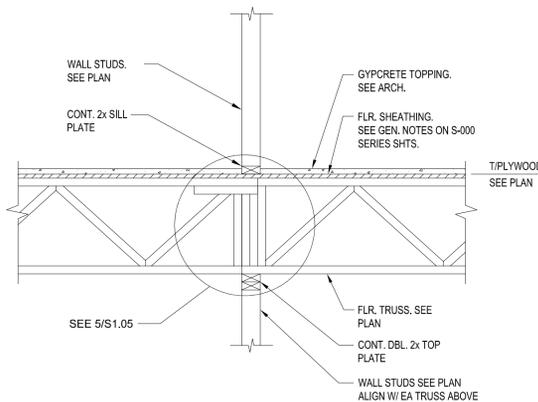
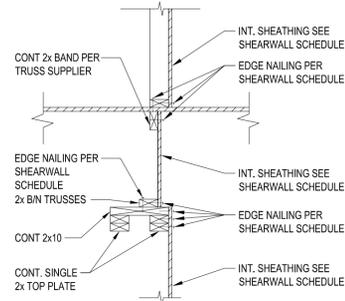
SCALE: 3/4" = 1'-0"

1 TYP. LOAD BRG. DEMISING WALLS



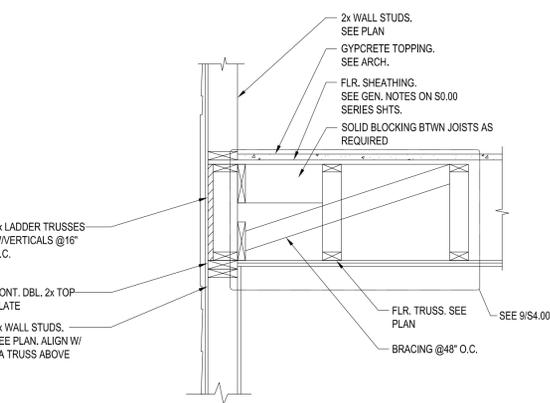
SCALE: 3/4" = 1'-0"

3 TYP. LOAD BRG. DEMISING WALLS



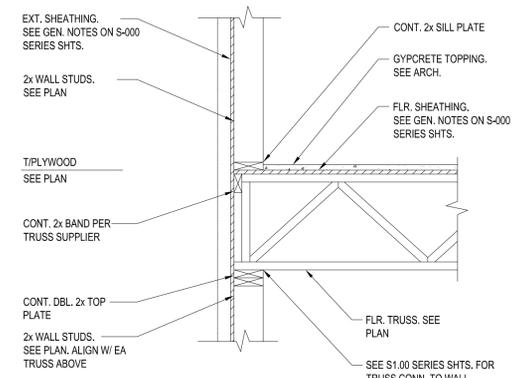
SCALE: 3/4" = 1'-0"

5 TYP. INTERIOR LOAD BRG. WALLS



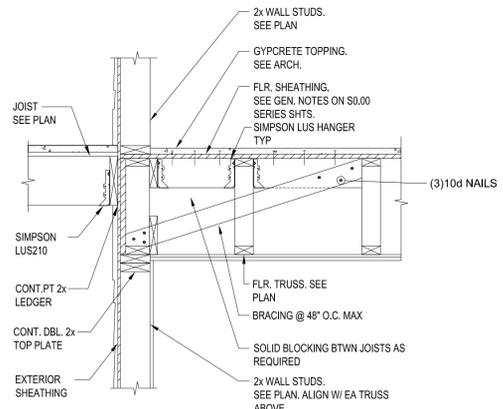
SCALE: 3/4" = 1'-0"

7 PERIMETER WALL



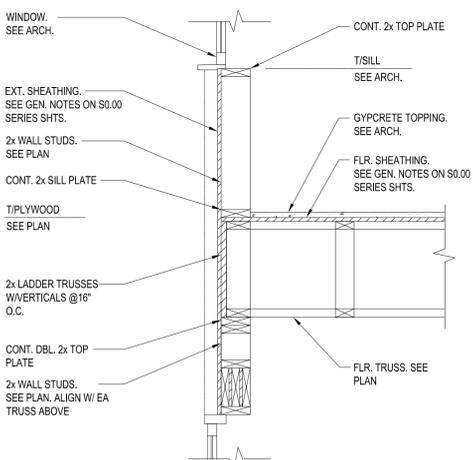
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8 PERIMETER WALL



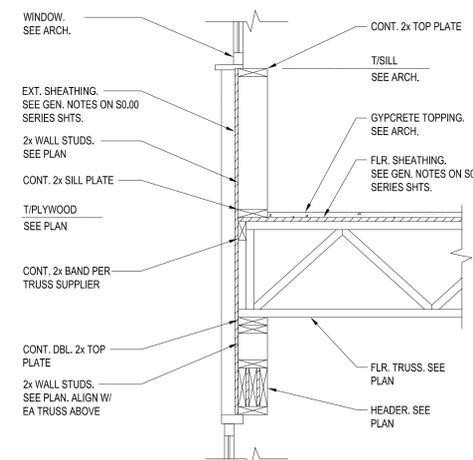
SCALE: 3/4" = 1'-0"

9 BALCONY SECTION



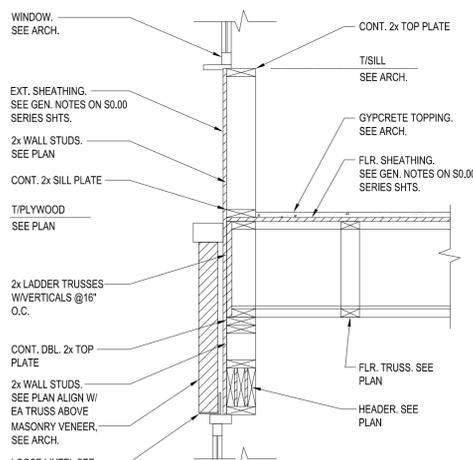
SCALE: 3/4" = 1'-0"

10 PERIMETER WALL



SCALE: 3/4" = 1'-0"

11 PERIMETER WALL



SCALE: 3/4" = 1'-0"

12 PERIMETER WALL AT WINDOW

JDH STRUCTURAL ENGINEERS, PLLC
 19545 GREENTREE WAY, SUITE B
 CORNELIUS, NORTH CAROLINA 28031
 phone 704-997-7072 fax 980-312-6520
<http://jdhengineers.com>
 NC CERTIFICATE OF LICENSURE # P-1593

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

PROJECT:

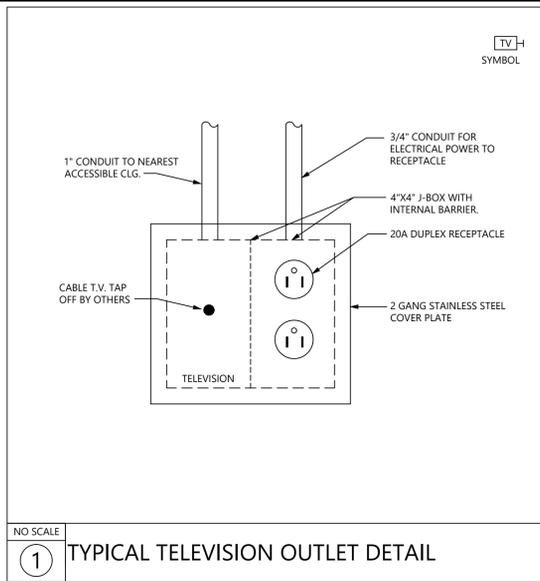
The Orchards at Naples Road
 Apartment Complex
 Hendersonville, North Carolina

#	REVISIONS	DATE

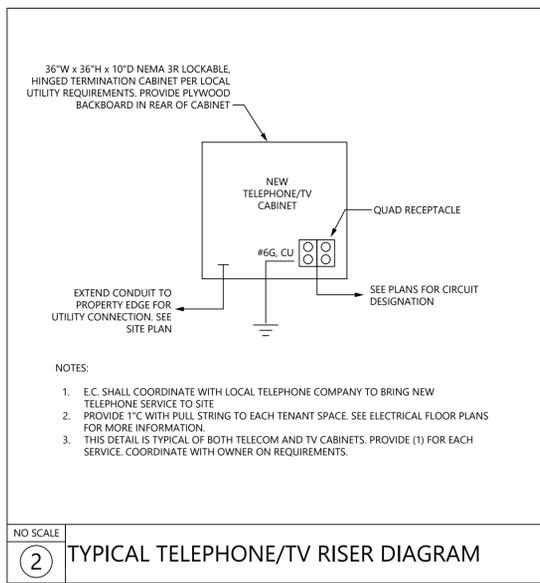
DWG INFO:
 ISSUE DATE: 09/27/24
 PROJECT #: 22105
 DRAWN BY:
 CHECKED BY:

DWG DESCRIPTION:
 FLOOR FRAMING SECTIONS

SHEET #:
S-4.00



NO SCALE
① TYPICAL TELEVISION OUTLET DETAIL



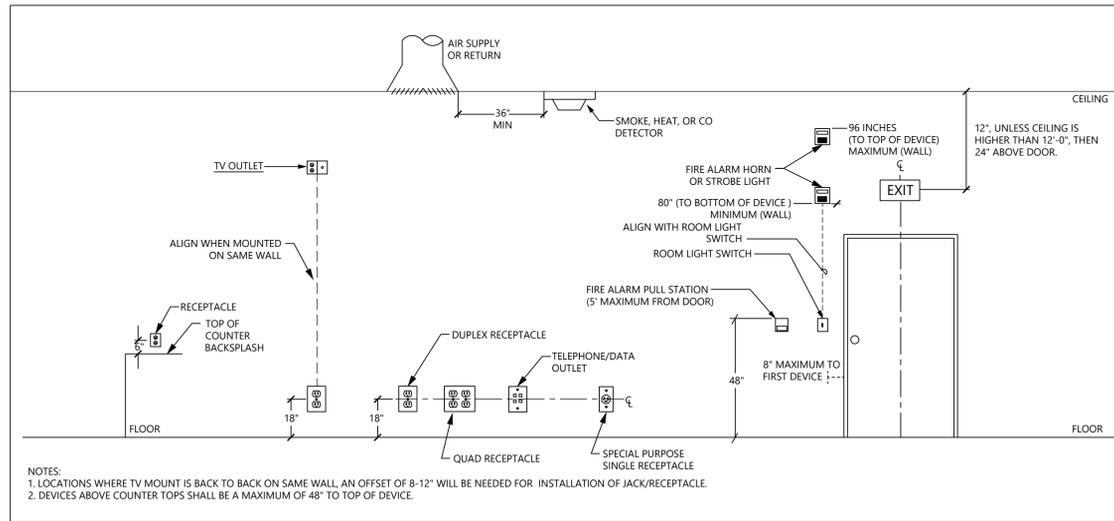
NO SCALE
② TYPICAL TELEPHONE/TV RISER DIAGRAM

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 COMPATIBILITY 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 BATTERY 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 RECEPTABLES.
	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 RECEPTABLES AND ONE COMM. PLATE WITH PROVISION FOR SIX RJ45 CAT6 JACKS, EQUAL TO WIREMOLD RFB66-OG-8CT. ARCHITECT TO SELECT FINISH. STUB FROM BOX ONE CONCEALED 1/4" AFF ROUTED TO WHICHEVER IS NEAREST, BR, 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.
	S SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	S1 THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	SS INDICATES BI-LEVEL SWITCHING/DIMMING. SWITCHES DIM FIXTURES 100/50/0. COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	Soc 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"/> 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"/> NC SPECIFIC COMCHECK PROVIDED <input type="checkbox"/> ASHRAE 90.1-2013
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 CONNECTED INTERIOR LIGHTING POWER: 12,410 WATTS SPECIFIED 25 % REDUCTION OF SPECIFIED VS. ALLOWED (APPLICABLE IF C406.1.2 IS SELECTED) C405.4.2 - TOTAL ALLOWABLE 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 CONNECTED EXTERIOR LIGHTING POWER: 970 WATTS SPECIFIED TOTAL ALLOWABLE 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
AFB	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
EWH	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 FOR 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.



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:
ELECTRICAL COVER SHEET

SHEET #:
E-01

1. GENERAL:

- A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS.
B. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.
C. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTION FEES.
D. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS.
E. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, RACEWAYS, BOXES, FITTINGS, CONDUCTORS, LUMINAIRES, LAMPS, BALLASTS, WIRING DEVICES, SAFETY SWITCHES, DISCONNECTS, TRIP DEVICES, CONTROL WIRING FOR SUCH EQUIPMENT, TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT.
F. ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN, INCLUDING PROVIDING MAJOR EQUIPMENT AND THE SAME MANUFACTURER, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID.
G. ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE MAINTAINED AT THE JOB SITE.
H. COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB SITE.
I. THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT.
J. PROVIDE AN INTER-SYSTEM BONDING TERMINATION DEVICE AT THE MAIN ELECTRICAL SERVICE PER NEC 250.94.
K. WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED.
L. WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
M. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTROL WIRING FOR EQUIPMENT NOT PROVIDED BY THE OWNER.
N. ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOICE/DATA OUTLETS, LOW VOLTAGE CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED ACCORDING TO PANEL/RACK AND CIRCUIT NUMBER.
O. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
P. CONTRACTOR SHALL PROTECT WORK AND MATERIALS FOR A PERIOD OF ONE YEAR EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER.
Q. IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION.
R. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION.
S. THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL PROVIDE (SEE DEFINITION ABOVE) ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY WITH CODE REQUIREMENTS.
T. CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL OUTLET LOCATIONS WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
U. ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS.
V. CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION.
W. IF DURING THE COURSE OF WORK, THE CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NEC, OR OTHER CODES OR REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.
X. WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.
Y. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TEMPORARY POWER AND LIGHTING FOR ALL TRADES.
Z. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY.
AA. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY.
AB. THE CONTRACTOR SHALL PROVIDE A MINIMUM TWO WEEK NOTICE FOR ANY PLANNED UTILITY OUTAGES.

2. RACEWAY:

- A. CONDUIT SHALL BE MANUFACTURED BY ALLIED, WHEATLAND, REPUBLIC CONDUIT, WESTERN TUBE, OR APPROVED EQUIVALENT.
B. FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE.
C. ENT FITTINGS SHALL BE COMPRESSION GLAND TYPE.
D. ALL RACEWAY SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED.
E. LOW VOLTAGE CABLING NOT SPECIFIED TO BE INSTALLED IN CONDUIT, SHALL BE INSTALLED IN A CABLE TRAY SYSTEM OR J-HOOK SYSTEM.
F. RACEWAYS USED FOR LOW VOLTAGE SYSTEMS SUCH AS TELECOMMUNICATIONS, FIRE ALARM, SECURITY, CCTV, CONTROLS, AND SIMILAR CONDUITS ABOVE THE CEILING AND BACKBOARD(S) SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AT EACH CONDUIT TERMINATION.
G. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS, NON-SHRINK GROUT.
H. SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS.
I. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
J. WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED EXPANSION FITTINGS WITH BONDING JUMPERS.
K. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK.
L. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS.
M. LIQUID-TIGHT METAL CONDUIT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO EQUIPMENT AND ALL OTHER ROTATING AND VIBRATING EQUIPMENT.
N. FLEXIBLE METAL CONDUIT, MINIMUM SIZE 3/8", SHALL ONLY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES.
O. PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360°. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE.

3. OUTLET BOXES:

- A. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL.
B. OUTLET BOXES SHALL NOT BE MOUNTED BACK TO COMMON WALLS.
C. ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT STUDS TO PREVENT TWISTING OF BOX IN WALL.

- E. ALL OUTLET BOXES (INCLUDING TELEPHONE, CABLE TV, AND COMPUTER) SHALL HAVE COVER PLATES, BLANK IF NOT USED.
F. ALL EXTERIOR BOXES SHALL BE WATER-TIGHT.
CONDUCTORS:

- A. CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPULL), ENCORE (SUPERSLICK), UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURER.
B. ALL CONDUCTORS SHALL BE COPPER, RATED 75° C WET/DRY EXCEPT WHERE OTHERWISE NOTED OR REQUIRED BY UL OR OTHER CODES.
C. ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2.
D. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG.
E. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS AND BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEMS.
F. INSULATION SHALL BE IDENTICAL ACCESS, CLEARANCE, CONTROL, WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID.
G. ALL CONDUCTORS SHALL BE IN CONDUIT.
H. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED.
I. 20 AMP MULTI-WIRE RECEPTACLE CIRCUITS SHALL UTILIZE A #10 AWG NEUTRAL CONDUCTOR.
J. JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH MAXIMUM FLEX LENGTH SHALL BE 6'-0".
K. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, MOTOR STARTER LUGS, TRANSFORMER LUGS, WIRING DEVICE TERMINALS, AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 1/3 AMPACITY AND SHALL BE SIZED AND SELECTED TO MATCH THE CONDUCTOR SIZE AND MATERIAL.
L. CIRCUIT JOINTS SHALL NOT BE MADE ON DEVICE TERMINALS.
M. WIRE WITHIN PANELBOARDS SHALL BE NEATLY TRAINED, SQUARED, BUNCHED, AND TAGGED.
N. ALL SYSTEM FURNITURE CONNECTIONS SHALL COMPLY WITH NEC 605.
O. GROUND ALL EQUIPMENT PER NEC ARTICLE 250.
P. ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC 300-19.
Q. THE ELECTRICAL CONTRACTOR SHALL FOLLOW AND APPLY THE TABLE BELOW, REGARDLESS WHAT THE PANEL SCHEDULE INDICATES, FOR SIZING ALL 120V & 277V, 20 AMP BRANCH CIRCUITS (COPPER CONDUCTORS) TO ALLOW A MAXIMUM OF 3% VOLTAGE DROP FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE ON THE BRANCH CIRCUIT AND ACHIEVE A MAXIMUM OF 5% VOLTAGE DROP ACROSS THE ENTIRE BRANCH CIRCUIT.

Table with 4 columns: VOLTAGE, CONDUCTOR LENGTH * , BRANCH CIRCUIT. Rows include 120/208, 120, 120, 120.

* - THE LENGTH IS MEASURED FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE WHICH THE BRANCH CIRCUIT SERVES. WHERE THE DISTANCE EXCEEDS ABOVE, CONSULT WITH THE ENGINEER.

4. WIRING DEVICES:

- A. WIRING DEVICES SHALL BE SPECIFICATION GRADE, MINIMUM, EQUAL TO COOPER QUALITY INDICATED BELOW OR AS MANUFACTURED BY HUBBELL, LEGRAND-PASS & SEYMOUR, LEVITON, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

SWITCHES (120/277V) SHALL BE AS FOLLOWS:

Table with 3 columns: SINGLE-POLE 20 AMP, COOPER AH1221, COOPER AH1222, COOPER AH1223, COOPER AH1224, COOPER AH1221PL, COOPER AH1222PL, COOPER AH1223PL, COOPER AH1221L, COOPER AH1222L, COOPER AH1223L, COOPER AH1224L.

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

Table with 2 columns: 15 AMP DUPLEX, COOPER 5252, COOPER 5352, COOPER SG715F, COOPER SG720F, COOPER TR5262, COOPER TR5362, COOPER TR5GF15F, COOPER TR5GF20F.

THE PART NUMBERS ABOVE ARE FOR WIRING DEVICE TYPE ONLY. SEE BELOW FOR WIRING DEVICE COLOR AND PLATE MATERIAL/COLOR.

- B. SEE MOUNTING HEIGHT ELEVATION DETAIL FOR STANDARD MOUNTING HEIGHTS OF ALL DEVICES, UNLESS OTHERWISE NOTED.
C. THE COLOR OF ALL WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE AS DIRECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED.
D. EACH DUPLEX RECEPTACLE INDICATED TO BE ON A DEDICATED CIRCUIT SHALL BE 20 AMP TYPE.
E. ADJACENT DEVICES SHALL HAVE A COMMON WALL PLATE.
F. WEATHERPROOF COVERS SHALL BE "WHOLE-IN-USE" SO PLUGS MAY BE INSTALLED WITHOUT COMPROMISING THE WP FUNCTION.
G. A MAXIMUM OF 10 GENERAL PURPOSE RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT.
H. DIMMERS SHALL BE LINEAR SLIDE, PRESENT ON/OFF, SQUARE LAW DIMMING, W/R/FI FILTERING CAPACITORS, AND/OR DIMMING SWITCHES.
I. ALL WALL MOUNTED OCCUPANCY/VACANCY SENSORS/SWITCHES SHALL BE INSTALLED WITH AN EQUIPMENT GROUNDING CONDUCTOR.
J. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION.
K. ALL GFCI RECEPTACLES SHALL HAVE AUTO-MONITORING / SELF-TEST FUNCTION AND REVERSE LINE-LOAD MISFIRE FUNCTION AND MEET ALL REQUIREMENTS OF UL 943 (LATEST EDITION).
L. TAMPER-RESISTANT RECEPTACLES SHALL BE PROVIDED FOR ALL AREAS PER NEC 406.12, INCLUDING DWELLING UNITS, GUEST ROOMS, GUEST SUITES AND COMMON AREAS OF HOTELS AND MOTELS, CHILD-CARE FACILITIES, PRESCHOOL AND ELEMENTARY EDUCATION FACILITIES, BUSINESS OFFICES/CORRIDORS, WAITING ROOMS AND THE LINC IN CLINICS/MEDICAL/DENTAL OFFICES AND OUTPATIENT FACILITIES, ASSEMBLY OCCUPANCIES INCLUDING PLACES OF AWAITING TRANSPORTATION/GYMNASIUMS/SKATING RINKS/AUDITORIUMS, AND DORMITORIES/STUDENT HOUSING.

5. SUPPORTS:

- A. ALL EQUIPMENT SHALL BE ADEQUATELY SUPPORTED FROM STRUCTURE.
B. INSERTS IN MASONRY SHALL BE LEAD OR FIBER IN DRILLED HOLES, OR CAST IN PLACE.
C. EMT/MC/RGS SUPPORTS SHALL BE A MAXIMUM OF 8'-0" APART AND A MAXIMUM OF 3'-0" FROM BOXES.
D. LIGHTING FIXTURES MOUNTED IN OR ON CEILING SHALL BE SUPPORTED FROM STRUCTURE VIA 12 GAUGE STEEL WIRE.
E. LIGHTING FIXTURES MOUNTED IN OR ON CEILING SHALL BE SUPPORTED THE SAME. DO NOT SUPPORT RACEWAY OR FIXTURES FROM CEILING GRID OR DUCT WORK.

6. TELECOMMUNICATIONS:

- A. FURNISH A COMPLETE TELEPHONE CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS.
B. TELECOMMUNICATION OUTLETS SHALL CONSIST OF A 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING.
C. PROVIDE MINIMUM 1" RACEWAY, UNLESS OTHERWISE NOTED, FROM EACH BOX TO ABOVE NEAREST ACCESSIBLE CEILING SPACE FOR J-HOOK SYSTEM OR TO CABLE TRAY AS APPLICABLE PER NEC 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS.
D. PROVIDE RACEWAYS FOR ALL EXTERIOR AND/OR EXPOSED LOCATIONS.
E. ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT STUDS TO PREVENT TWISTING OF BOX IN WALL.

- F. ALL LOW-VOLTAGE CABLING SHALL BE PLENUM-RATED.
G. CONTRACTOR SHALL FURNISH AND INSTALL A #6 AWG GREEN INSULATED COPPER WIRE IN CONDUIT FROM THE MAIN ELECTRICAL GROUNDING BAR TO TELECOMMUNICATIONS GROUNDING BUS BAR.
H. PROVIDE MOUNTING BACKBOARDS FOR COMMUNICATIONS EQUIPMENT.
I. VERIFY SITE LOCATION OF TELEPHONE SERVICES WITH APPROPRIATE VENDOR.

9. LIGHTING FIXTURES:

- A. TYPES AND MANUFACTURERS ARE SCHEDULED ON THE PLANS. EQUIVALENT FIXTURES BY OTHERS MAY BE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
B. ALL FIXTURES SHALL BE UL LISTED AND LABELED.
C. LAMPS SHALL BE GENERAL ELECTRIC, PHILIPS, OR OSRAM/PENNYLANTA EXCEPT WHERE OTHERWISE NOTED IN THE LIGHTING FIXTURE SCHEDULE OR OTHERWISE NOTED.
D. BALLASTS SHALL BE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE OR AS OTHERWISE NOTED.
E. ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON THE CIRCUIT ASSIGNMENT INDICATED ON THE PLANS.
F. CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY.
G. ALL FIXTURES SHALL BE GROUNDED PER THE NEC.
H. FIXTURES CONNECTED WITH FLEX TO THE RIGID RACEWAY PORTION OF THE WIRING SYSTEM SHALL CARRY A GREEN BONDING JUMPER WITHIN THE FLEX.
I. SURFACE-MOUNTED FLUORESCENT FIXTURES INSTALLED ON COMBUSTIBLE MATERIAL SHALL BE MOUNTED AT LEAST 1/4" FROM THE SURFACE OF THE MATERIAL.
J. SURFACE-MOUNTED FLUORESCENT FIXTURES INSTALLED ON COMBUSTIBLE MATERIAL SHALL BE MOUNTED AT LEAST 1/4" FROM THE SURFACE OF THE MATERIAL.
K. FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS WITHIN INTEGRAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
L. SEE ARCHITECT REFLECTED CEILING PLANS FOR EXACT LOCATION OF FIXTURES.
M. CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND TRIM WITH CEILING CONSTRUCTION AND ADJUST ACCORDINGLY WITHOUT ADDITIONAL EXPENSE.
N. ALL LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED PER THE NEC.
O. FIXTURES IN CONTACT WITH INSULATION SHALL BE IC RATED.
P. FOR RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS, PROVIDE A MANUFACTURER APPROVED AND LISTED FIRE RATED COVER/ASSEMBLY OVER THE FIXTURE TO MAINTAIN THE INTEGRITY OF THE CEILING FIRE RATING.

10. LIGHTING CONTROLS:

- A. FURNISH AND INSTALL WHERE SHOWN AN ELECTRONIC TIME CONTROLLER AS MANUFACTURED BY TORK (NSI), PARAGON, INTERMATIC, OR APPROVED EQUAL.
B. LIGHTING CONTACTORS SHALL SWITCH LOADS AT THE VOLTAGE AND AMPERE RATING INDICATED AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS OR AS REQUIRED.
C. ALL LIGHTING CONTACTORS SHALL BE ELECTRICALLY HELD AND BE INSTALLED IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.

11. EQUIPMENT IDENTIFICATION:

- A. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT.
B. NAMEPLATE COLORS SHALL BE AS FOLLOWS:
C. NAMEPLATES UP TO 8 SQUARE INCHES SHALL NOT BE LESS THAN 1/16" THICK.
D. LETTERING HEIGHT SHALL BE 1/2" MINIMUM.
E. NAMEPLATES SHALL BE ATTACHED WITH SELF-DRILLING/SELF-PENETRATING SCREWS, EXCEPT RIVETS SHALL BE USED WHERE END OF SCREW IS NOT PROTECTED.
F. UP TO 5 SQUARE INCHES: 2 SCREWS, 5 TO 12 SQUARE INCHES: 4 SCREWS, ABOVE 12 SQUARE INCHES: 6 SCREWS.

12. DISCONNECTS:

- A. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE IN NEMA 1 ENCLOSURES, UNLESS OTHERWISE NOTED.
B. FUSES LESS THAN 60A SHALL BE CLASS RK5, DUAL-ELEMENT, TIME-DELAY WITH INDICATION.
D. A SET OF 3 SPARE FUSES OF EACH SIZE AND TYPE SHALL BE FURNISHED TO THE OWNER.

13. PANELBOARDS:

- A. PANELBOARDS SHALL BE PROVIDED AS MANUFACTURED BY EATON, SQUARE-D, GENERAL ELECTRIC, OR APPROVED EQUAL.
B. ALL BREAKERS SHALL BE AUTOMATIC THERMAL-MAGNETIC TYPE MOLDED CASE BOLT-ON TYPE, CALIBRATED FOR 40 DEGREE C, OR AMBIENT COMPENSATION, UNLESS OTHERWISE NOTED.
C. PANELS SHALL BE FULLY RATED (AIC), NO SERIES AIC RATINGS ARE ALLOWED.
D. PANELS SHALL HAVE FULL SIZE EQUIPMENT GROUNDING BARS AND NEUTRAL BARS, EXCEPT WHERE INDICATED TO BE 200%.
E. LIGHTING AND APPLIANCE PANELS (100A-600A) SHALL HAVE FRONT ACCESSIBLE HINGED DOOR-IN-DOOR COVERS WITH DEAD FRONT, SHALL BE 20" WIDE MINIMUM WITH MINIMUM 4" WIDE WIRING GUTTERS.
H. DISTRIBUTION PANELS (600A-1200A) SHALL HAVE FRONT ACCESSIBLE DEAD FRONT COVERS.
I. PROVIDE HANDLE LOCK-ON DEVICES FOR ALL CIRCUIT BREAKERS CONNECTED TO EMERGENCY, EXIT, NIGHT LIGHTING, FIRE ALARM, TELEPHONE, AND SECURITY SYSTEMS.
J. BREAKERS USED FOR SWITCHING SHALL BE SWITCHING DUTY (SWD) TYPE.
K. BREAKERS USED FOR HEATING, AIR-CONDITIONING AND/OR REFRIGERATION SHALL BE HACR RATED.
L. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION.
M. ARC-FAULT CIRCUIT-INTERRUPTER (AFCI) PROTECTION SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.12, INSTALLED IN A READILY ACCESSIBLE LOCATION.
N. ALL OVERCURRENT DEVICES WHICH COMPRISE THE EMERGENCY SYSTEM OR LEGALLY REQUIRED STANDBY SYSTEM SHALL BE SELECTIVELY COORDINATED.
O. ALL PANELBOARDS SHALL HAVE METAL DIRECTORY FRAME.
P. ALL CIRCUIT BREAKERS RATED 1200A OR HIGHER, OR CAPABLE OF BEING RATED 1200A OR HIGHER (I.E. ADJUSTABLE LONG-TIME PICKUP OR REPLACEABLE TRIP/RATING PLUG), SHALL BE PROVIDED WITH AN ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR PER NEC 240.87(B).

15. FIRE ALARM SYSTEM:

- N. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED

- (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA).
H. PROVIDE MOUNTING BACKBOARDS FOR COMMUNICATIONS EQUIPMENT.
I. VERIFY SITE LOCATION OF TELEPHONE SERVICES WITH APPROPRIATE VENDOR.
O. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE SEMI-FLUSH MOUNTED, COMBINATION LIGHT AND HORN SIGNALS SHALL BE FLUSH MOUNTED.
P. MANUAL STATIONS SHALL BE NON-CODED, WITH DUAL-ACTION PULL AND KEY TYPE RESET.
Q. SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH SHALL BE DISTINGUISH BETWEEN A FIRE ALARM SIGNAL AND A CLOSED VALVE.
R. CONDUCTORS SHALL BE PLENUM-RATED AND INSTALLED IN CONDUIT AND INSTALLED IN COMPLIANCE WITH NFPA 70, ARTICLE 760, IN ADDITION TO WIRING METHODS 300-4.
S. ALL FIRE ALARM WIRING SHALL BE CLASS B.
T. PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
U. SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND FOR APPROVAL.
V. FILL OUT NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING JURISDICTION.
W. WARRANTY - ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER AND/OR OWNER.
X. AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 520HZ TONE WITH A MINIMUM OF 100 DBA SOUND PRESSURE LEVEL.
Y. PROVIDE ALL REPROGRAMMING AND/OR REWORK AND/OR REPLACEMENT OF EXISTING FIRE ALARM PANEL AS REQUIRED.

16. FIRE STOPPING:

- A. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH RATED MATERIALS MEETING ASTM E-814.
B. ALL FIRE STOPPING DEVICES(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814.
C. DEVICES(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.

17. SEISMIC:

- A. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING SEISMIC SUPPORT AND BRACING OF ELECTRICAL COMPONENTS TO RESIST THE EFFECTS OF EARTHQUAKES ON THE ELECTRICAL SYSTEM AS WELL AS ANY REQUIRED SPECIAL INSPECTIONS BASED ON THE SPECIFIC GEOGRAPHIC LOCATION AS REQUIRED.
B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS.

18. ELECTRICAL COORDINATION WITH OTHER TRADES:

- A. THE ELECTRICAL CONTRACTOR SHALL CONNECT AND/OR PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS APPLICABLE TO THE PROJECT.
B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS.
C. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANUAL MOTOR STARTER SWITCHES, DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL AND PLUMBING EQUIPMENT.
D. ALL DISCONNECT SWITCHES AND FUSE SIZES SHALL BE COORDINATED WITH SHOP DRAWINGS LOCATIONS ABOVE THE CEILING WITH OTHER TRADES PRIOR TO INSTALLATION.
E. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND LIGHT FIXTURE LOCATIONS ABOVE THE CEILING WITH OTHER TRADES PRIOR TO INSTALLATION.
F. ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED AND CONNECTED BY THE ELECTRICAL CONTRACTOR, BUT INSTALLED BY THE MECHANICAL CONTRACTOR.
G. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY OUTLETS FOR HEAT TAP CONNECTIONS FOR MECHANICAL SYSTEMS.
H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER AT EACH HVAC UNIT HAVING A CONTROLS POWER SUPPLY. CIRCUITS SHALL BE DEDICATED 20A SERVING A MAXIMUM OF 10 HVAC UNITS PER CIRCUIT.



- PRELIMINARY - NOT FOR CONSTRUCTION

SIGNATURE: _____

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



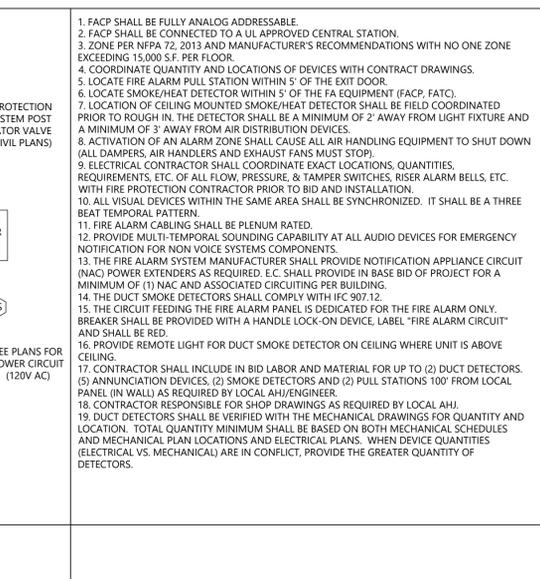
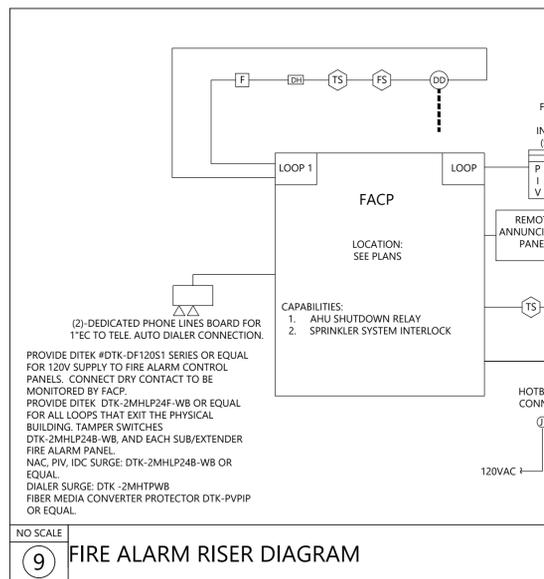
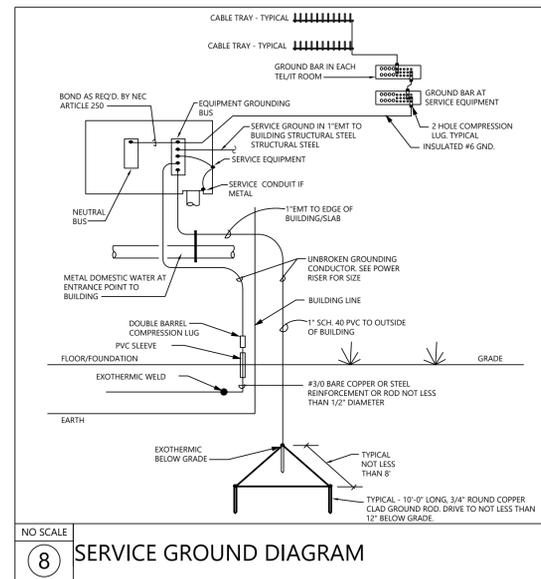
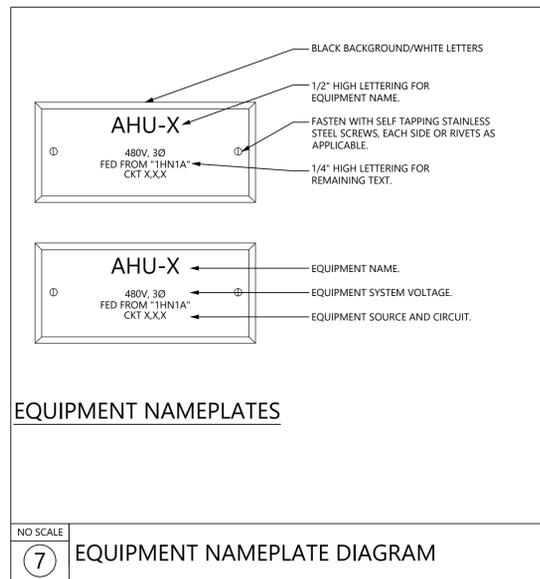
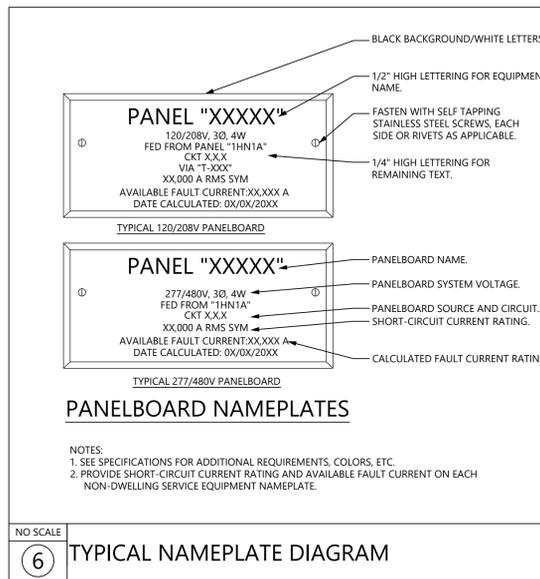
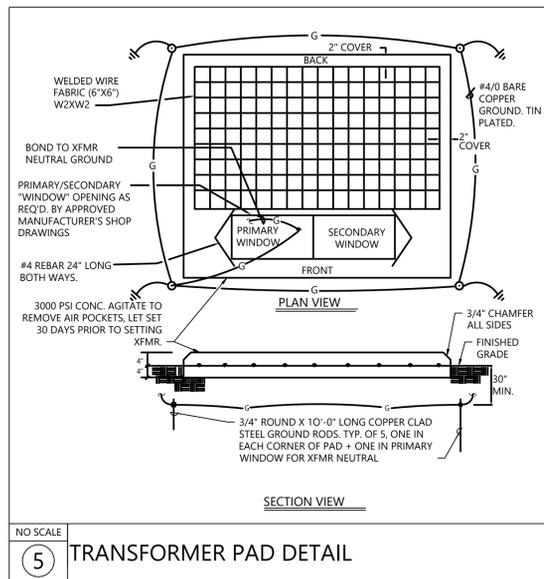
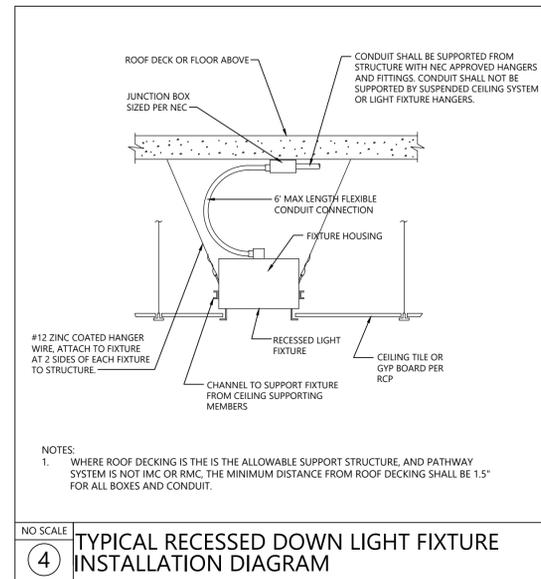
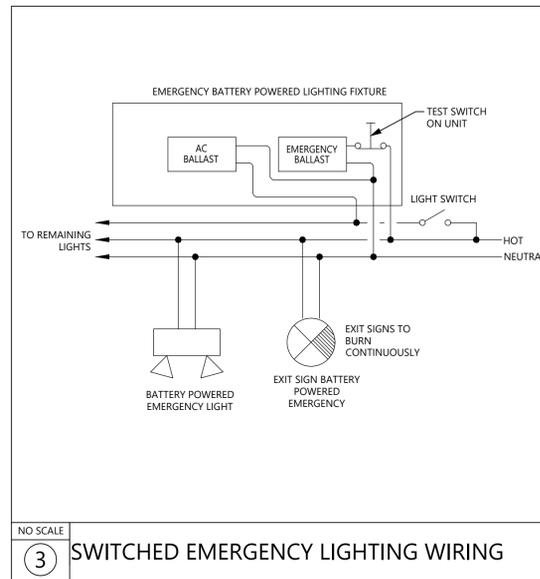
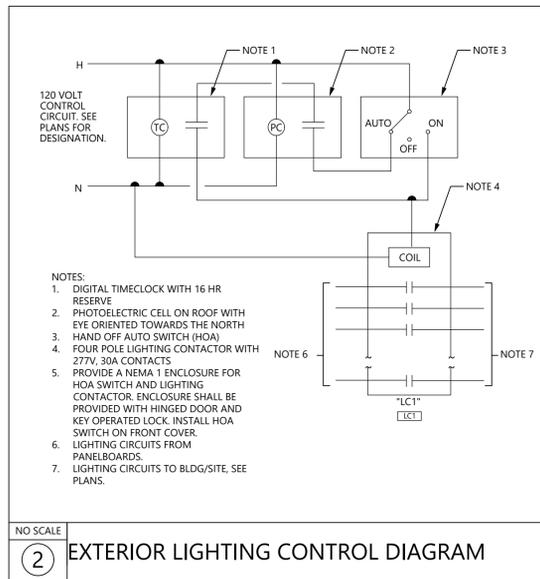
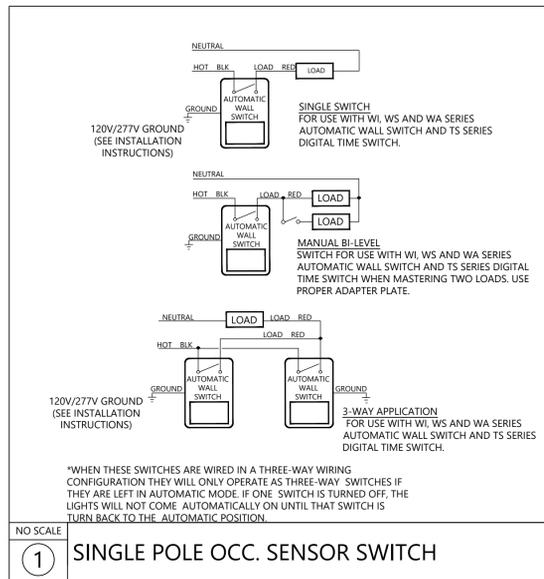
PROJECT: _____

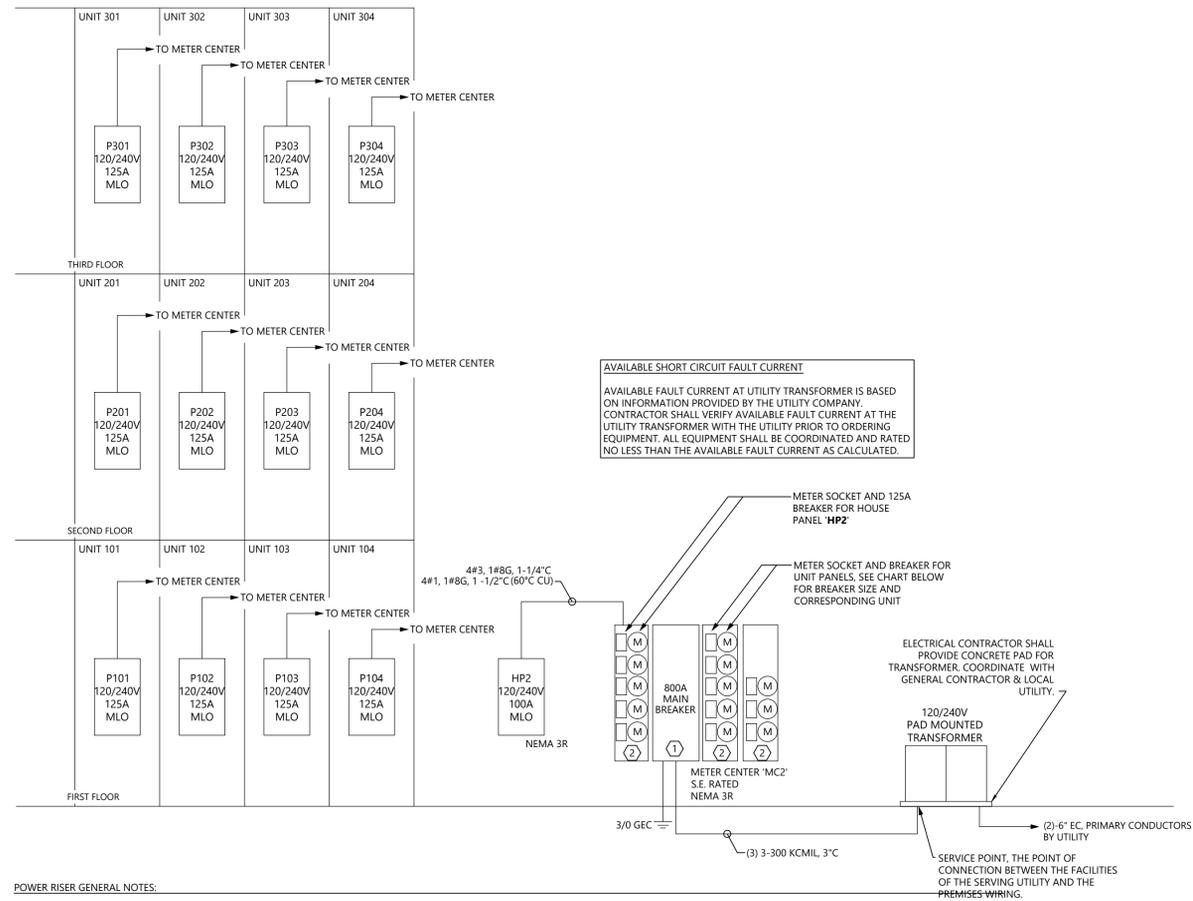
Table with 3 columns: #, REVISIONS, DATE. Contains a grid for tracking revisions.

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

DWG DESCRIPTION: ELECTRICAL SPECIFICATIONS

SHEET #: E-02





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 BUILDING 2
- TABLES SHOWN ON THIS SHEET ARE TYPICAL FOR BUILDING 2
- 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, 125A 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 - BUILDING 2 (12-UNIT BLDG)
NOT TO SCALE

BUILDING 2 - METER CENTER MC2				
UNIT #	FLOOR	UNIT TYPE	SERVICE BREAKER SIZE (AMPS)	FEEDER SIZE (COPPER)
101	FIRST	2 BDRM ACCESSIBLE	125	SEE FEEDER TABLE
102	FIRST	2 BDRM ACCESSIBLE	125	
103	FIRST	2 BDRM TYPE-A	125	
104	FIRST	2 BDRM TYPE-A	125	
201	SECOND	2 BDRM	125	
202	SECOND	2 BDRM	125	
203	SECOND	2 BDRM	125	
204	SECOND	2 BDRM	125	
301	THIRD	2 BDRM	125	
302	THIRD	2 BDRM	125	
303	THIRD	2 BDRM	125	
304	THIRD	2 BDRM	125	

DEMAND LOADS: METER CENTER 'MC2'		
NUMBER OF UNITS	UNIT KVA	TOTAL KVA
2 BEDROOM UNIT	12	40.92
TOTAL # OF UNITS	12	491.1 KVA
		41% 201.3 KVA
		PANEL 'HP2': 6.4 KVA
		TOTAL: 207.7 KVA
	VOLTAGE OF SERVICE:	240 V
	SERVICE PHASE:	1 PH
	TOTAL AMPACITY:	865.5 A

SERVICE RATING (AMPS)	MAXIMUM DISTANCE						
	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 250'	251' - 275'	276' - 300'
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, 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#4G, 1-1/2" C	3#1/0, 1#3G, 1-1/2" C	3#2/0, 1#2G, 1-1/2" C	
125		3#1, 1#6G, 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#4G, 1-1/2" C	3#3/0, 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#3G, 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#3G, 2" C	3-300, 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	

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: HP2

VOLTAGE: 120/ 240
 PHASE / WIRE: 1φ/ 3W
 AMPS: 100
 AIC: 22,000

MOUNTING: SURFACE
 MAIN: LUGS ONLY

LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #	L1	L2	CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA
0.54	12	20	REC - GENERAL	1	●		2	EXTERIOR LIGHTING	20	8	0.50
1.08	10	20	REC - GENERAL	3	—	●	4	FACP (NOTE #8)	20	10	1.00
1.00	12	20	TELECOM CABINET	5	●		6	IRRIGATION CONTROLS	20	10	1.00
		20	SPARE	7	—	●	8	FIRE ALARM BELL (NOTE #8)	20	10	0.50
		20	SPARE	9	●	—	10	LIGHTING CONTACTOR LCT	20	12	0.10
		20	SPARE	11	—	●	12	ECUH-1	20	10	1.00
		20	SPARE	13	●	—	14		20	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				

2.6				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=	4.1 kVA	34.5 AMPS					
COOLING	0.0	1.00	0.0	L2=	3.6 kVA	29.8 AMPS					
VENTILATION	0.0	1.00	0.0	DEMAND							
MOTORS	0.0	1.00	0.0	DEMAND							
KITCHEN	0.0	0.65	0.0	L1=	4.3 kVA	35.5 AMPS					
REC. (1st 10kVA)	1.6	1.00	1.6	L2=	3.6 kVA	29.8 AMPS					
REC. (>10kVA)	0.0	0.50	0.0	DEMAND AT 125%							
WATER HEATER	0.0	1.00	0.0	DEMAND AT 125%							
MISC.	3.6	1.00	3.6	L1=	5.3 kVA	44.4 AMPS					
SPARE	0.0	1.00	0.0	L2=	4.5 kVA	37.3 AMPS					

- NOTES:**
- BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
 - SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
 - ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
 - ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.
 - PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
 - PROVIDE METAL DIRECTORY FRAME.
 - PANEL SHALL BE NEMA 3R RATED.
 - PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.



- 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

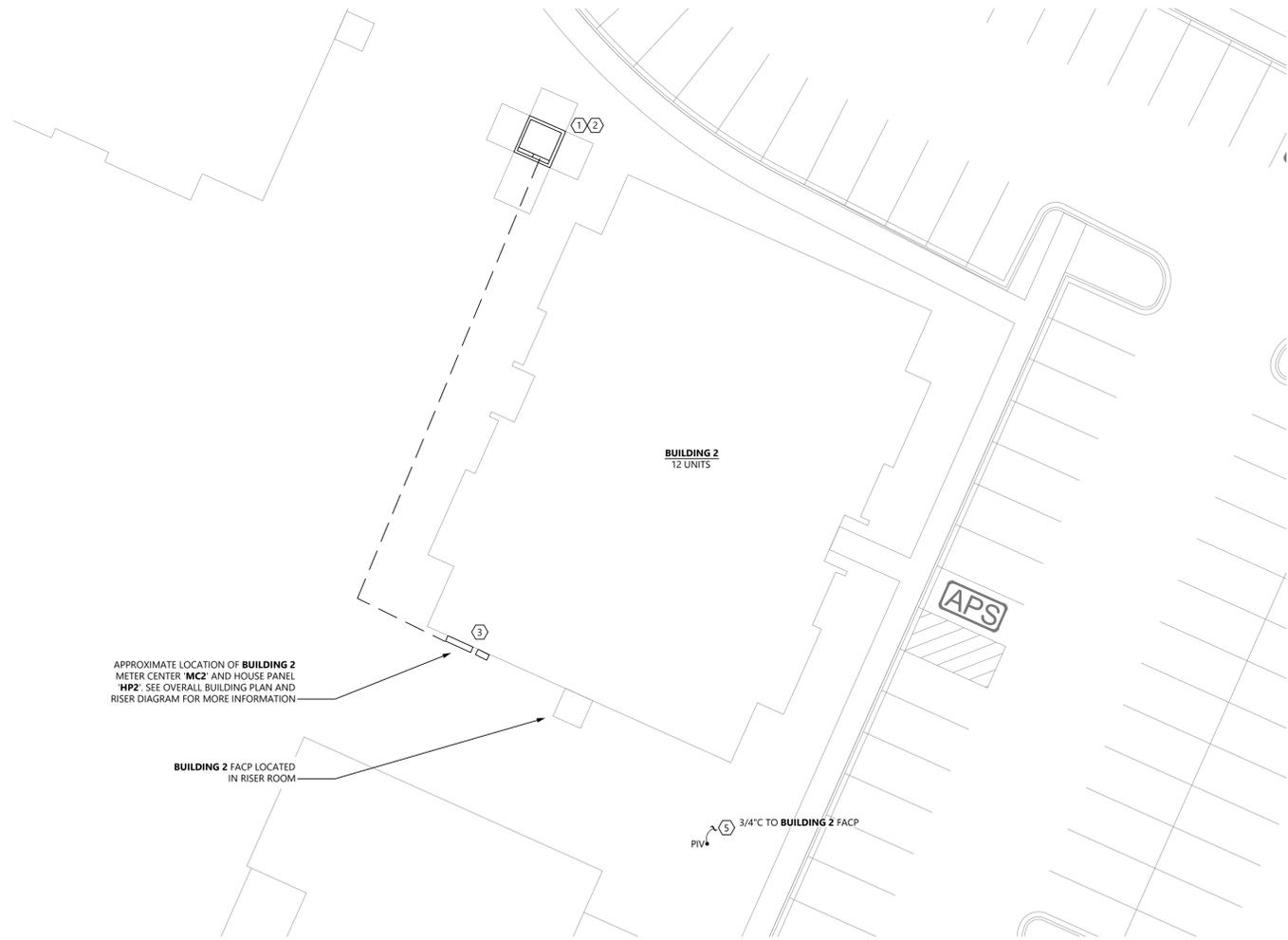
DWG INFO:
 ISSUE DATE: 4/11/25
 PROJECT #: 22105
 DRAWN BY: MFL
 CHECKED BY: JK

DWG DESCRIPTION:
 PANEL SCHEDULE -
 HOUSE PANEL

SHEET #:
E-05

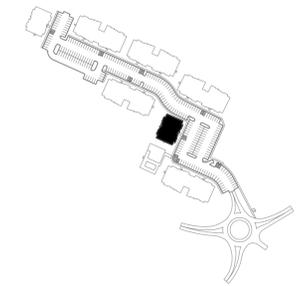
SITE PLAN NOTES:

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.



1 ELECTRICAL SITE PLAN - BUILDING 2
1/16"=1'-0"

**KEY PLAN
(NOT TO SCALE)**



- PRELIMINARY -
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SIGNATURE:

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



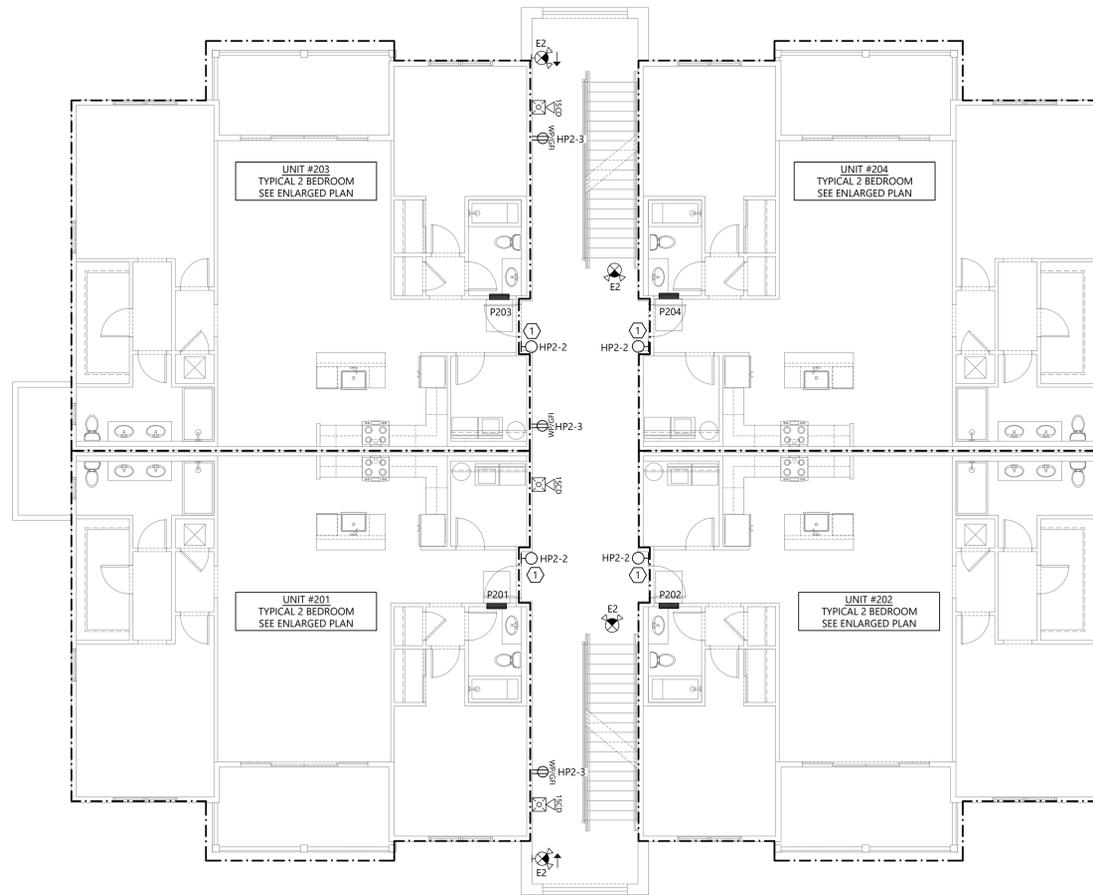
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

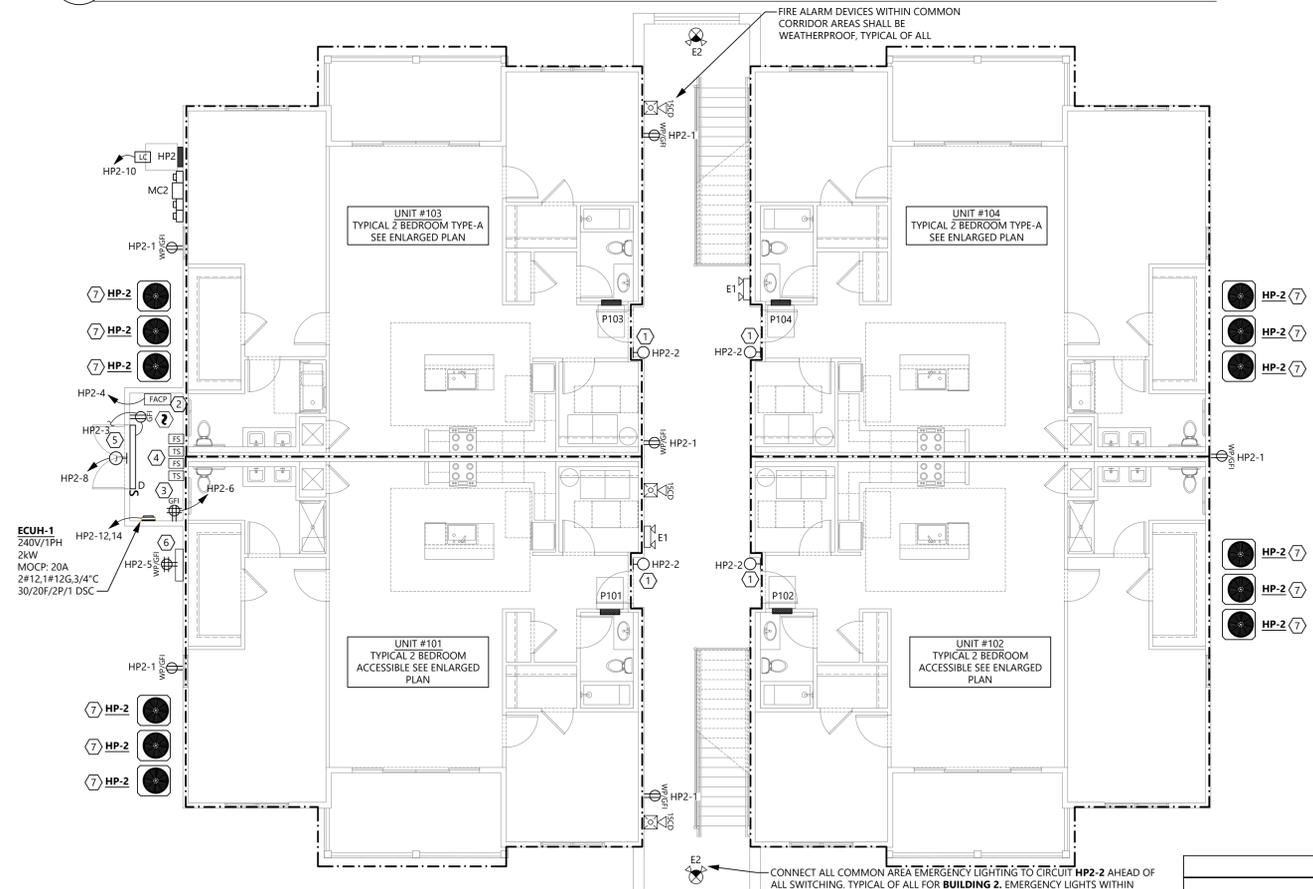
DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DESCRIPTION:
ELECTRICAL SITE PLAN -
BUILDING 2

SHEET #:
E-10



2 OVERALL PLAN - BUILDING 2 (12-UNIT BLDG) - SECOND FLOOR
1/8" = 1'-0"



1 OVERALL PLAN - BUILDING 2 (12-UNIT BLDG) - FIRST 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.
 - FIRE ALARM BELL. COORDINATE EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - 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.
 - 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 - NOT FOR CONSTRUCTION

SIGNATURE

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



PROJECT:
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Apartment Complex
Hendersonville, North Carolina

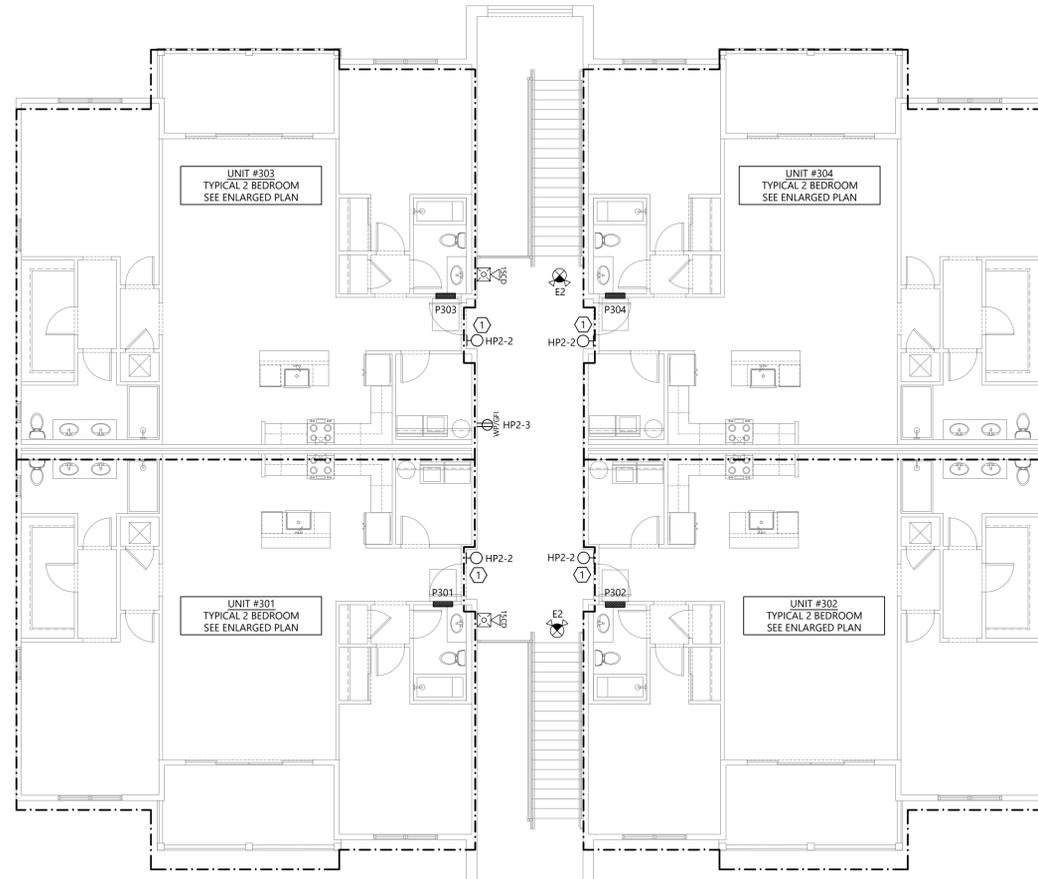
#	REVISIONS	DATE

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

DWG DESCRIPTION:
OVERALL ELECTRICAL PLAN - FIRST & SECOND FLOORS - BUILDING 2

SHEET #:
E-21

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - OVERALL PLAN													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCP	FEEDER	DISCONNECT SWITCH				
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	NOTES
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.												



1 OVERALL PLAN - BUILDING 2 (12-UNIT BLDG) - THIRD FLOOR
 1/8" = 1'-0"

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 CONTACTOR FOR ASSOCIATED BUILDING. CONTACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTACTOR 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.



- PRELIMINARY -
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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
 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 -
 BUILDING 2

SHEET #:
E-22

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
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Hendersonville, North Carolina

#	REVISIONS	DATE

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

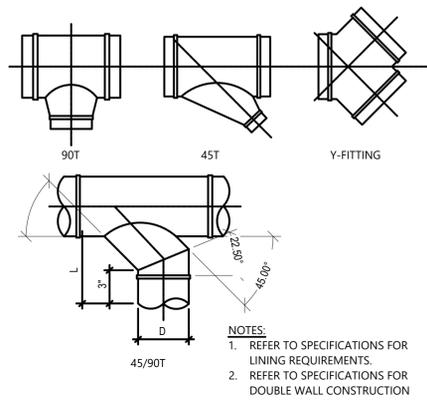
DWG DESCRIPTION:
PLAN WEST ELEVATION -
BUILDING 2

SHEET #:

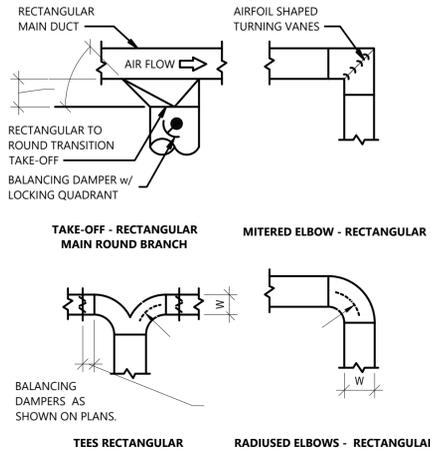
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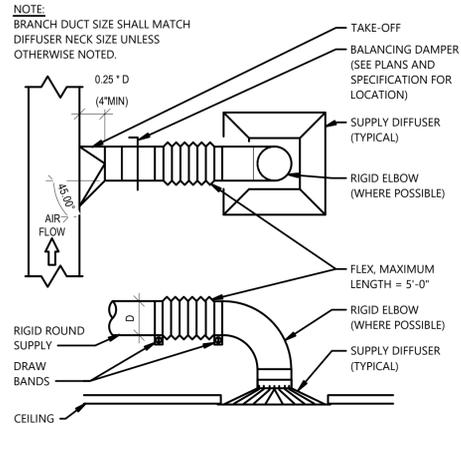
1 PLAN WEST ELEVATION - BUILDING 2 (12-UNIT BUILDING)
1/4" = 1'-0"



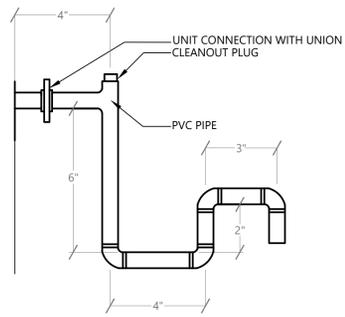
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① ROUND DUCT FITTINGS DETAIL



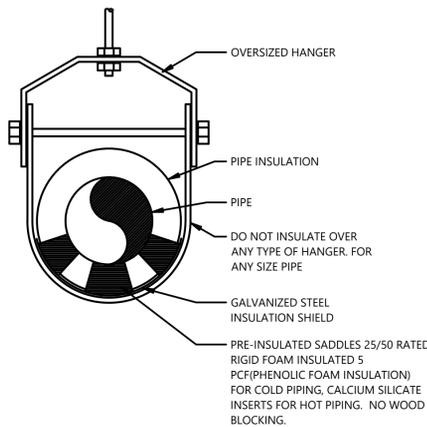
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② RECTANGULAR DUCT FITTINGS DETAIL



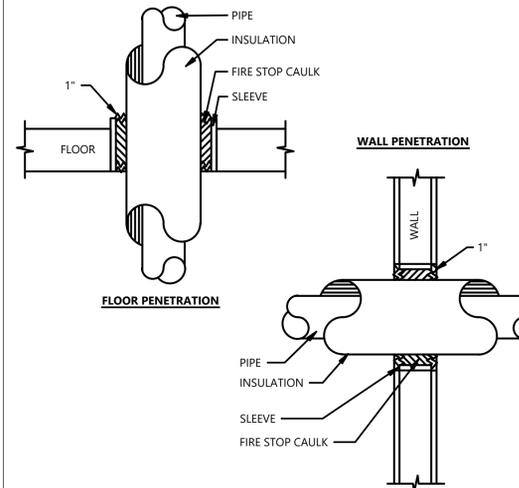
NO SCALE
③ ROUND BRANCH DUCT TAKE-OFF DETAIL



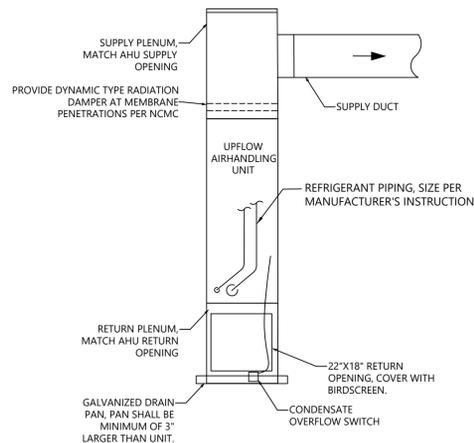
NO SCALE
④ DRAIN CONNECTION DETAIL



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	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		234 MBH
Building cooling load		196.8 MBH
Mechanical Space Conditioning System		
Unitary description of unit		12x 2-TON DX SPLITS
heating efficiency (HSPF)		7.5
cooling efficiency (SEER2)		14.3
heat output of unit		24 MBH
cooling output of unit		24 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 WHETHER 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 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 'L' 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)
X-1	DIFFUSER TAG
YY'ZZ'	NECK SIZE
XXX CFM-X	AIRFLOW-(TYPICAL QUANTITY)
AHU	AIR HANDLING UNIT
HP	HEAT PUMP
EE	EXHAUST FAN
ECUH	ELECTRIC CABINET UNIT HEATER
DB	DRYER BOOSTER FAN



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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:

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 COVER SHEET

SHEET #:
M-00

INDOOR UNIT SPLIT SYSTEM SCHEDULE

MARK	NOTES	INDOOR UNIT DATA							ELECTRICAL DATA				WEIGHT (LBS)	
		MFR	MODEL NO.	NOM. CAP. (MBH)	SUPPLY AIR FAN			FLA	HP	ELECTRIC HEATER (KW)	VOLTAGE/PH	MCA (A)		MOCP (A)
					SA (CFM)	OA (CFM)	ESP (IN. W.C.)							
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:

- 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	MFR	MODEL NO.	REFRIG. TYPE	OUTDOOR UNIT DATA				ELECTRICAL DATA			WEIGHT (LBS)
					REFRIG. COOLING PERFORMANCE		REFRIG. HEATING PERFORMANCE		VOLTAGE/PH	MCA	MOCP	
					NOM. CAP. (MBH)	SEER2	NOM. CAP. (MBH)	HSPF2				
HP-1	1-3	GOODMAN	GLZS4MA18	R32	18	14.5	18	7.5	230/1	11.4	15	175
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:

- 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 (LBS)	
						TYPE	AIRFLOW (CFM)	RPM	ESP (IN. W.C.)	MOTOR DATA (HP)	VOLTS	PHASE	MCA (A)		MOCP (A)
DBF-1	1, 2, 4-12	FANTECH	DEDPV705	DRYER EXHAUST	APARTMENT	INLINE	150	2600	0.2	78W	120	1	-	-	23

NOTES:

- 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:

- 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"			
TG-1	1-3		530	RESIDENTIAL RETURN GRILLE	SEE PLANS	14"x8"			

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:

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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
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

- 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

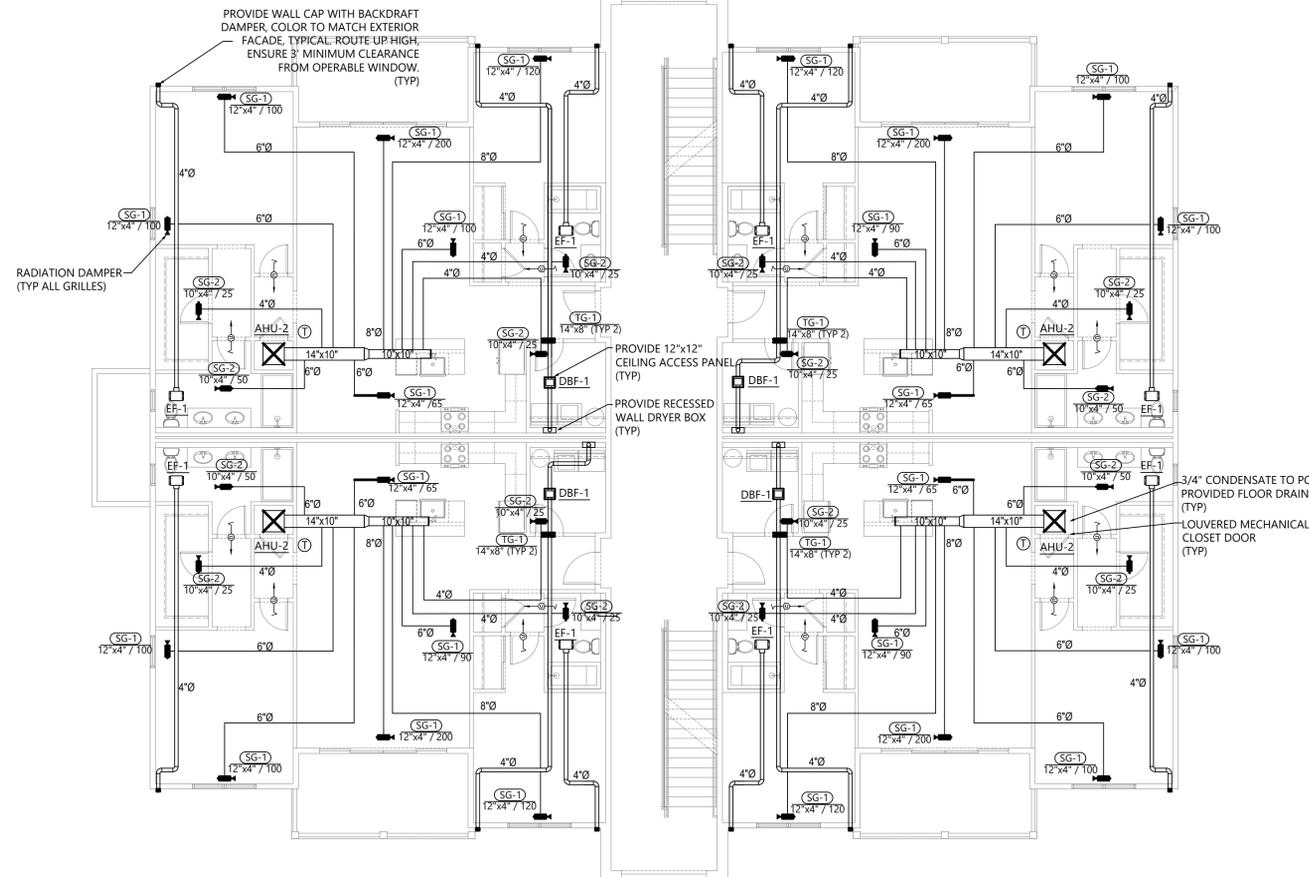
#	REVISIONS	DATE

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

DWG DESCRIPTION:
MECHANICAL PLAN -
FIRST & SECOND FLOORS
- BUILDING 2

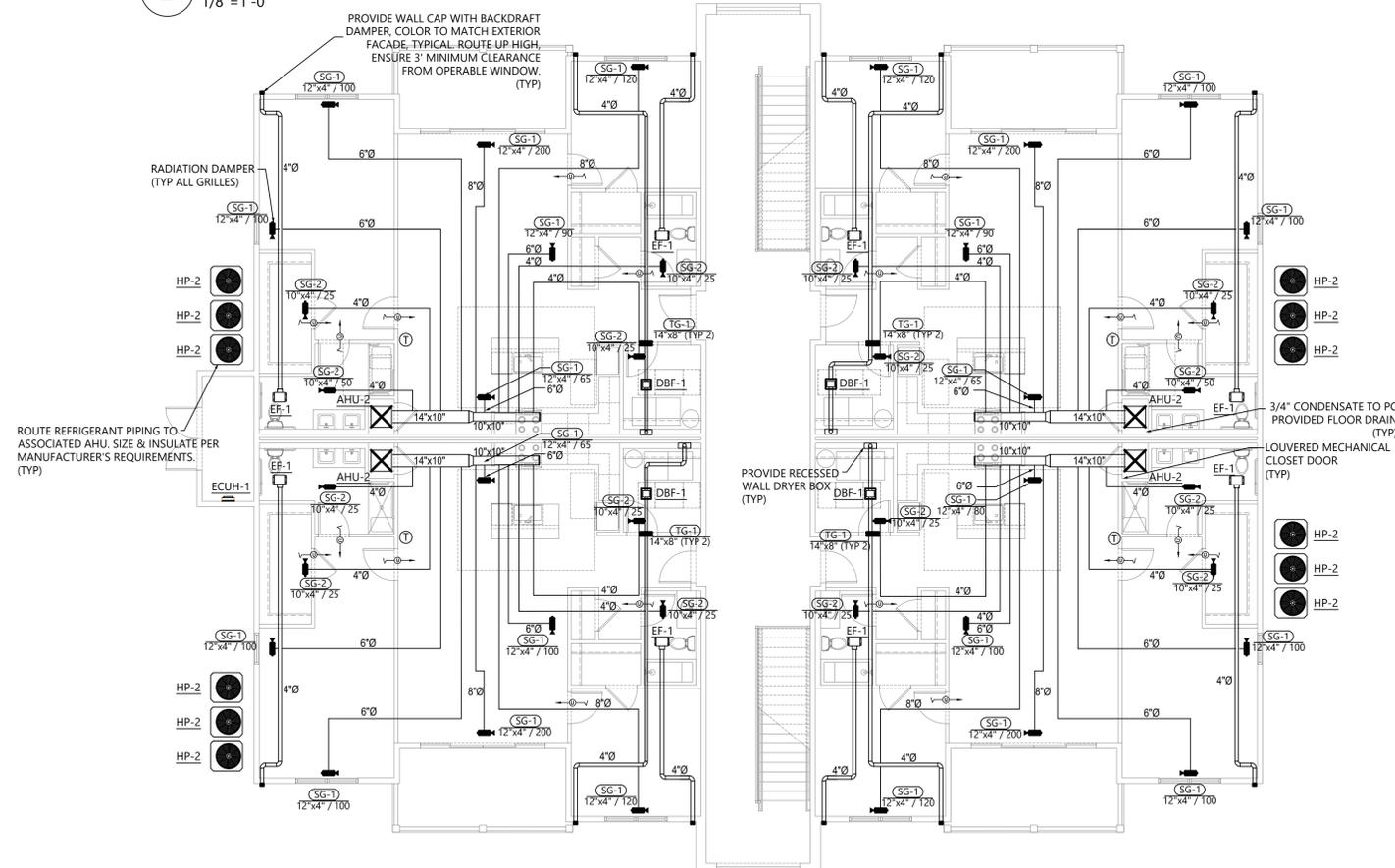
SHEET #:

M-1



2 MECHANICAL PLAN - BUILDING 2 (12UNIT BLDG) - SECOND FLOOR

1/8" = 1'-0"



1 MECHANICAL PLAN - BUILDING 2 (12-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:

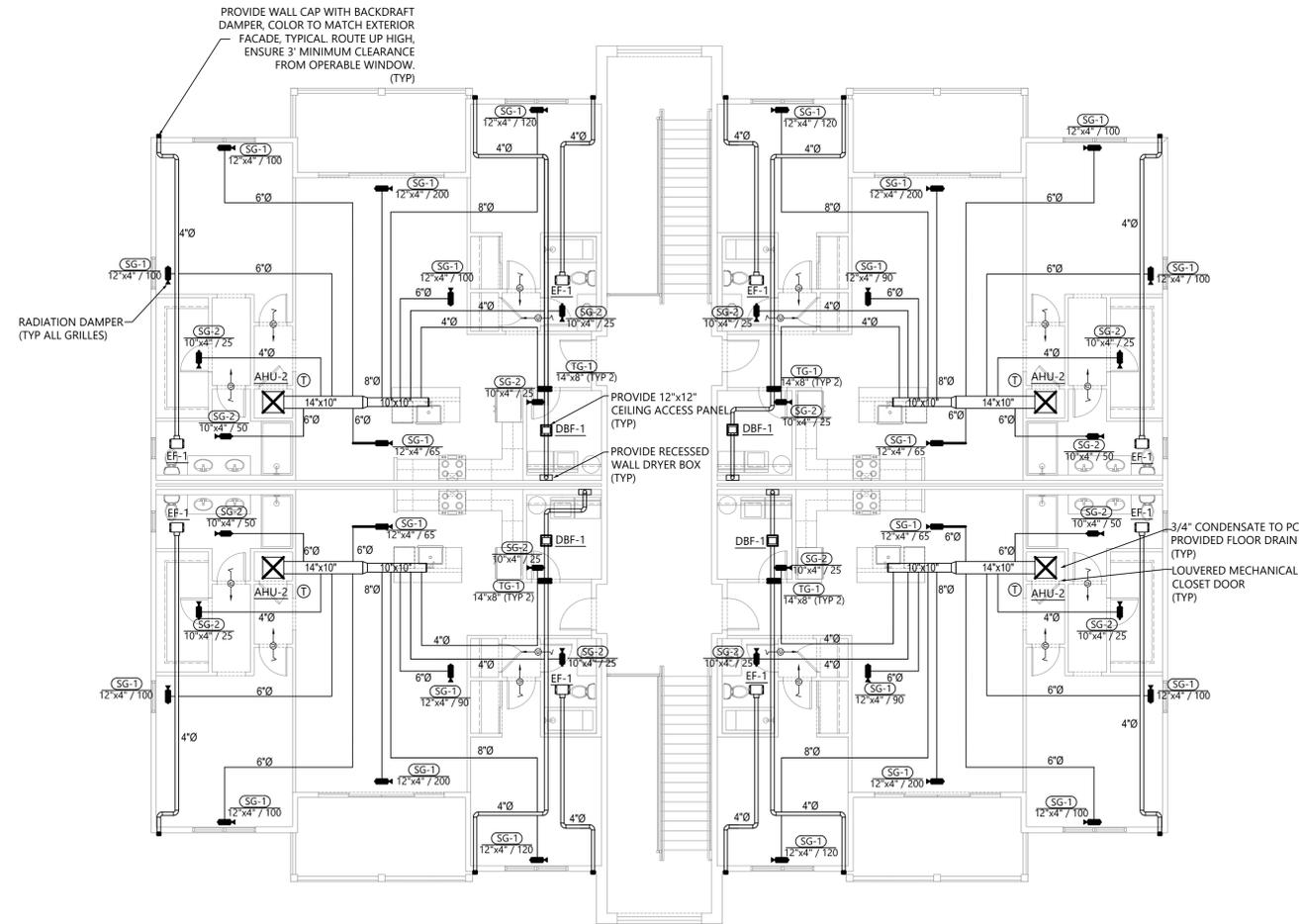
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

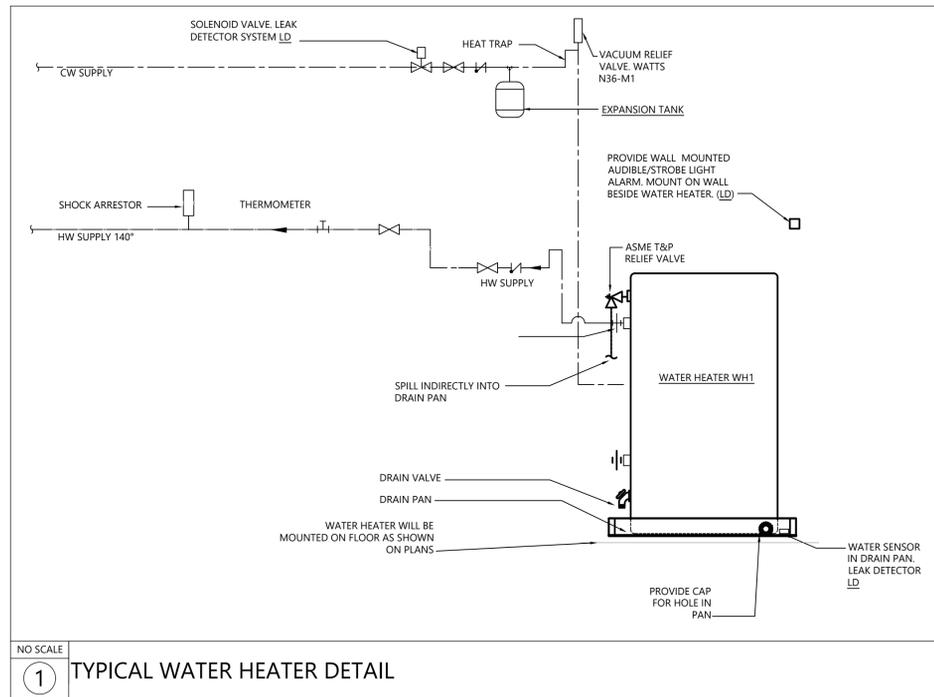
DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DESCRIPTION:
MECHANICAL PLAN -
THIRD FLOOR -
BUILDING 2

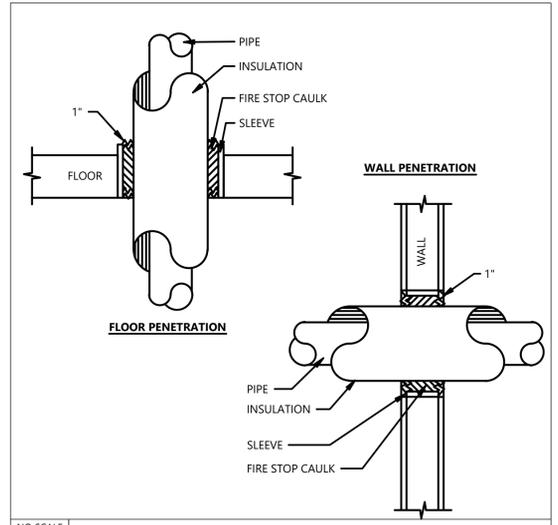
SHEET #:
M-2



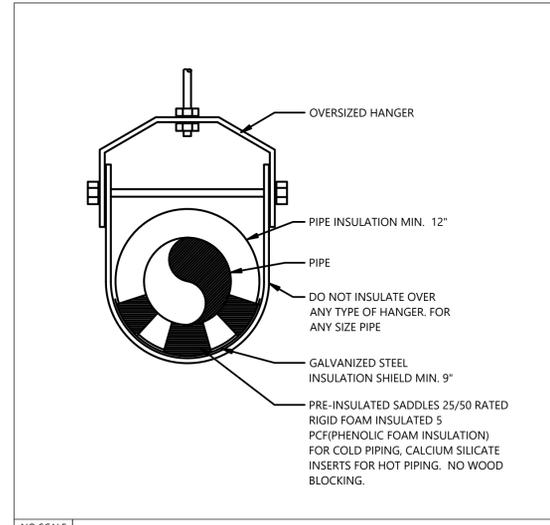
1 MECHANICAL PLAN - BUILDING 2 (12-UNIT BLDG) - THIRD FLOOR
1/8" = 1'-0"



NO SCALE
① TYPICAL WATER HEATER DETAIL



NO SCALE
② PIPE PENETRATION DETAILS



NO SCALE
③ TYPICAL PIPE HANGER DETAIL

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	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	AMERICAN STANDARD	RELJANT DROP-IN/0476228	-	WHITE VITREOUS CHINA	YES	DROP IN	4" CENTERS	FAUCET	-	1/2"	1/2"	1-1/4"	1-1/4"	-
	LAV-1	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	KOHLER	STACCATO/K-3362-1	-	STAINLESS STEEL	YES	DROP IN	SINGLE HOLE	FAUCET	-	-	-	1-1/2"	1-1/2"	-
	SK-1	KOHLER	CRUE/K-22972	1.5 GPM EPA "WATERSENSE"	POLISHED CHROME	YES	DECK	SINGLE HOLE	MANUAL	-	1/2"	1/2"	-	-	-
SHOWER	SH-1	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
EWH-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
---	ED	ELBOW DOWN
---	EB	ELBOW UP
---	PC	PIPE CONTINUOUS
---	BV	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
---	T	THERMOMETER
---	P	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
EX	EXISTING	VB	VACUUM BREAKER
FFE	FINISHED FLOOR ELEVATION	VLV	VALVE
FIN	FINISH	VTR	VENT THRU ROOF
FL	FLOOR	WC	WATER COLUMN
FR	FROM	EC	ELECTRICAL CONTRACTOR
FU	FIXTURE UNITS	GC	GENERAL CONTRACTOR
GPC	GALLONS PER CYCLE (METERING)	MC	MECHANICAL CONTRACTOR
GPF	GALLONS PER FLUSH	PC	PLUMBING CONTRACTOR
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:	<table border="1"> <thead> <tr> <th>SERVICE TYPE</th> <th>PIPE SIZES</th> <th>INSULATION THICKNESS</th> </tr> </thead> <tbody> <tr> <td>DOMESTIC HOT WATER & CIRCULATION</td> <td>1/2" - 1-1/2"</td> <td>1"</td> </tr> <tr> <td>DOMESTIC HOT WATER & CIRCULATION</td> <td>1-1/2" - 4"</td> <td>1-1/2"</td> </tr> <tr> <td>DOMESTIC COLD WATER</td> <td>1/2" - 1-1/4"</td> <td>1/2"</td> </tr> <tr> <td>DOMESTIC COLD WATER</td> <td>1-1/2" - 4"</td> <td>1"</td> </tr> </tbody> </table>	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"
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 NOT 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, GYPSUM BOARD 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
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(704) 439-7038
NC Reg. Firm License No. 19-2182

- 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:
PLUMBING COVER SHEET

SHEET #:
P-00

WILDE # 24-125

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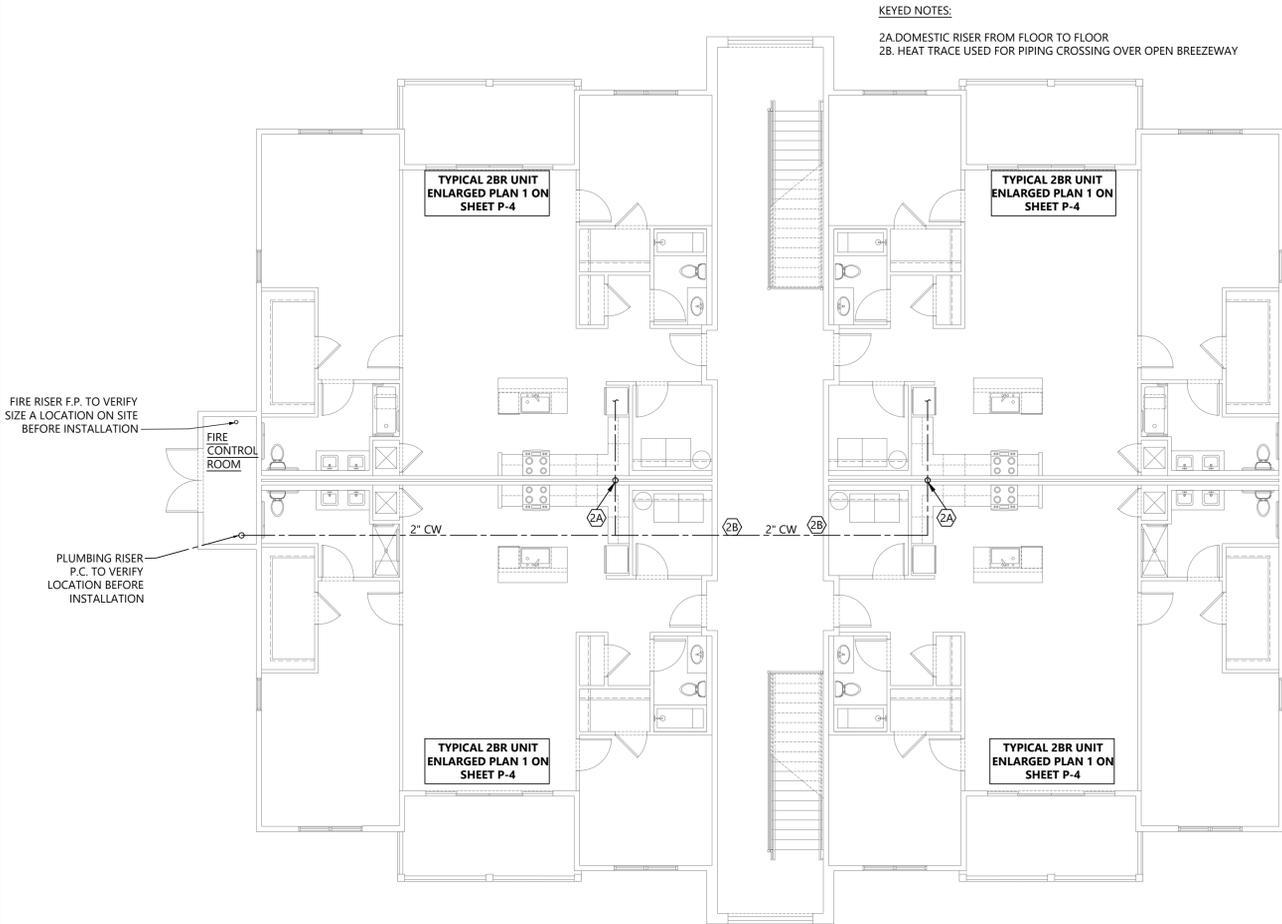
#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: JS
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DWG DESCRIPTION:
**PLUMBING SANITARY
& SUPPLY PLAN BLDG
2 FIRST FLOOR**

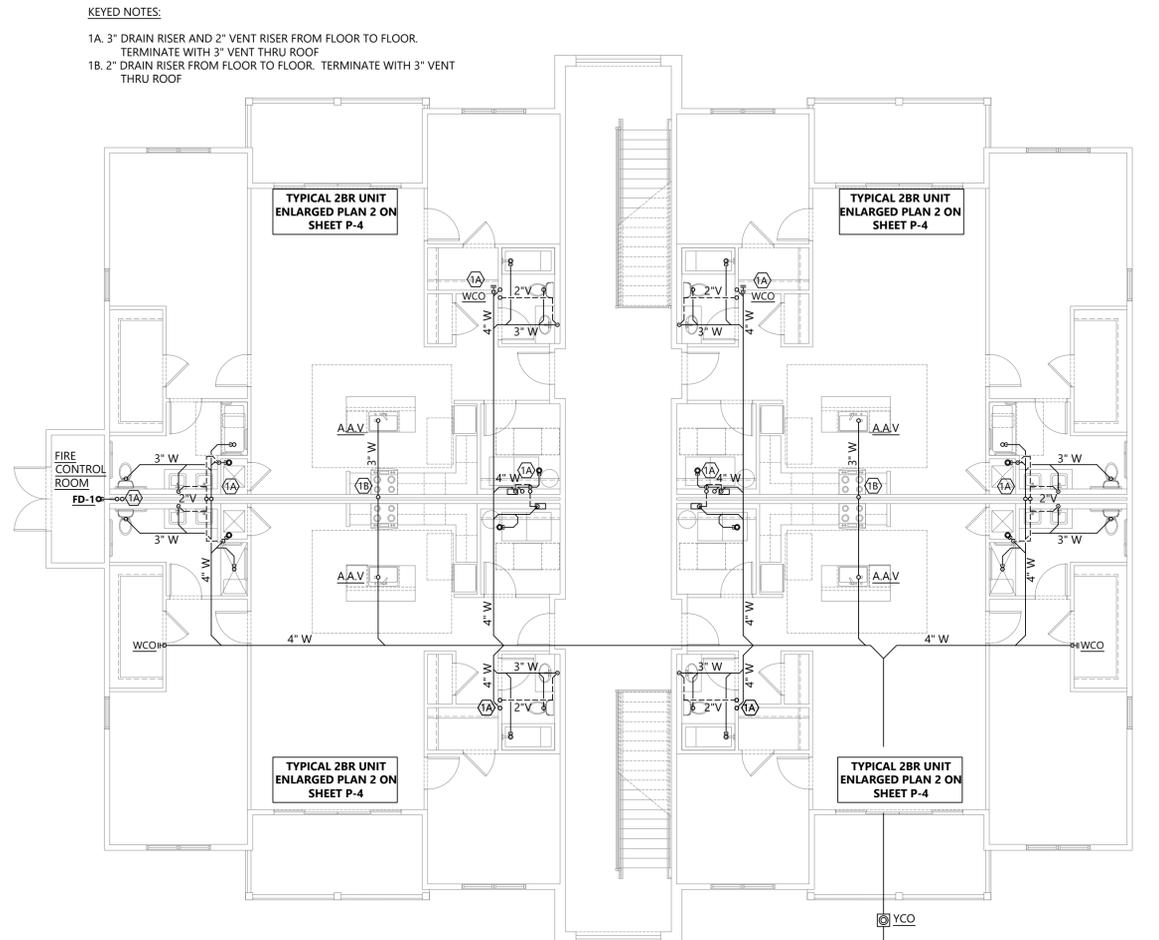
SHEET #:
P-1

KEYED NOTES:
2A. DOMESTIC RISER FROM FLOOR TO FLOOR
2B. HEAT TRACE USED FOR PIPING CROSSING OVER OPEN BREEZEWAY



1 PLUMBING SUPPLY PLAN BLDG 2 FIRST FLOOR
1/8" = 1'-0"

KEYED NOTES:
1A. 3\"/>



2 PLUMBING SANITARY PLAN BUILDING 2 FIRST FLOOR
1/8" = 1'-0"

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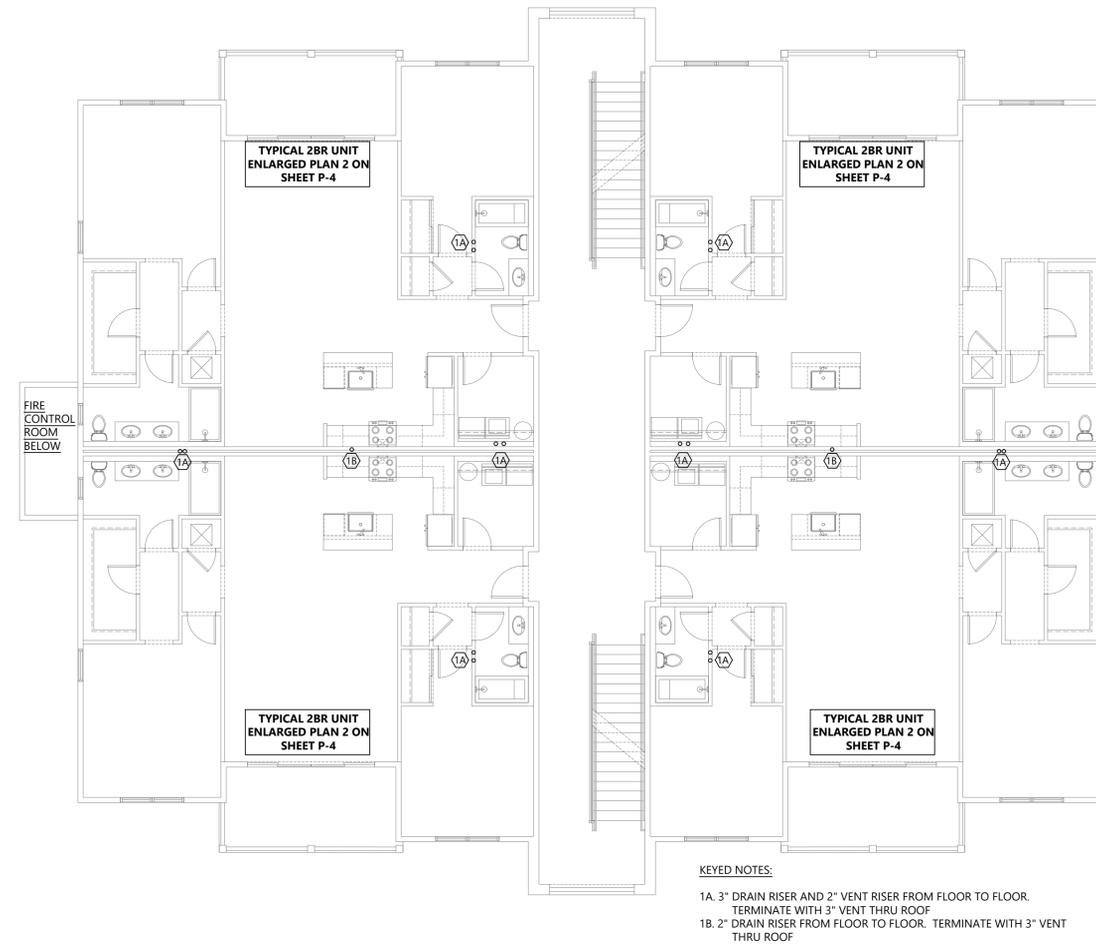
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**PLUMBING SANITARY
& SUPPLY PLAN BLDG
2 SECOND FLOOR**

SHEET #:

P-2



1 PLUMBING SUPPLY PLAN BLDG 2 SECOND FLOOR
1/8" = 1'-0"



2 PLUMBING SANITARY PLAN BUILDING 2 SECOND FLOOR
1/8" = 1'-0"

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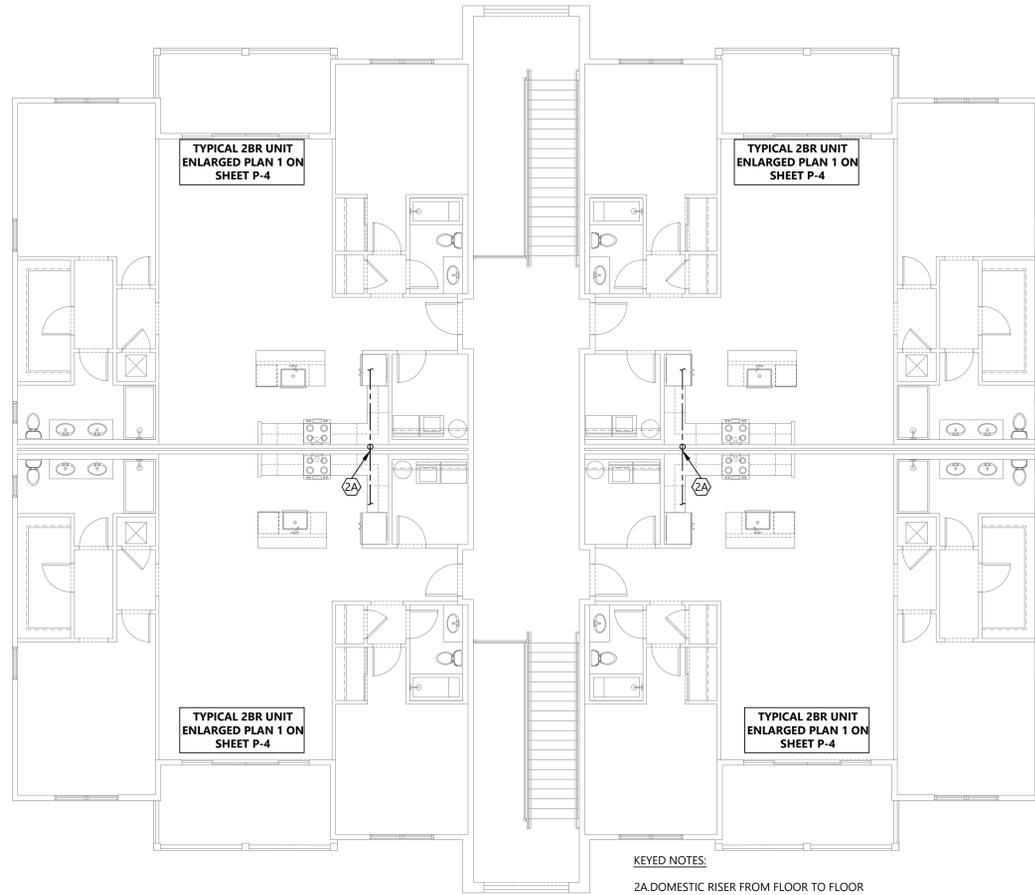
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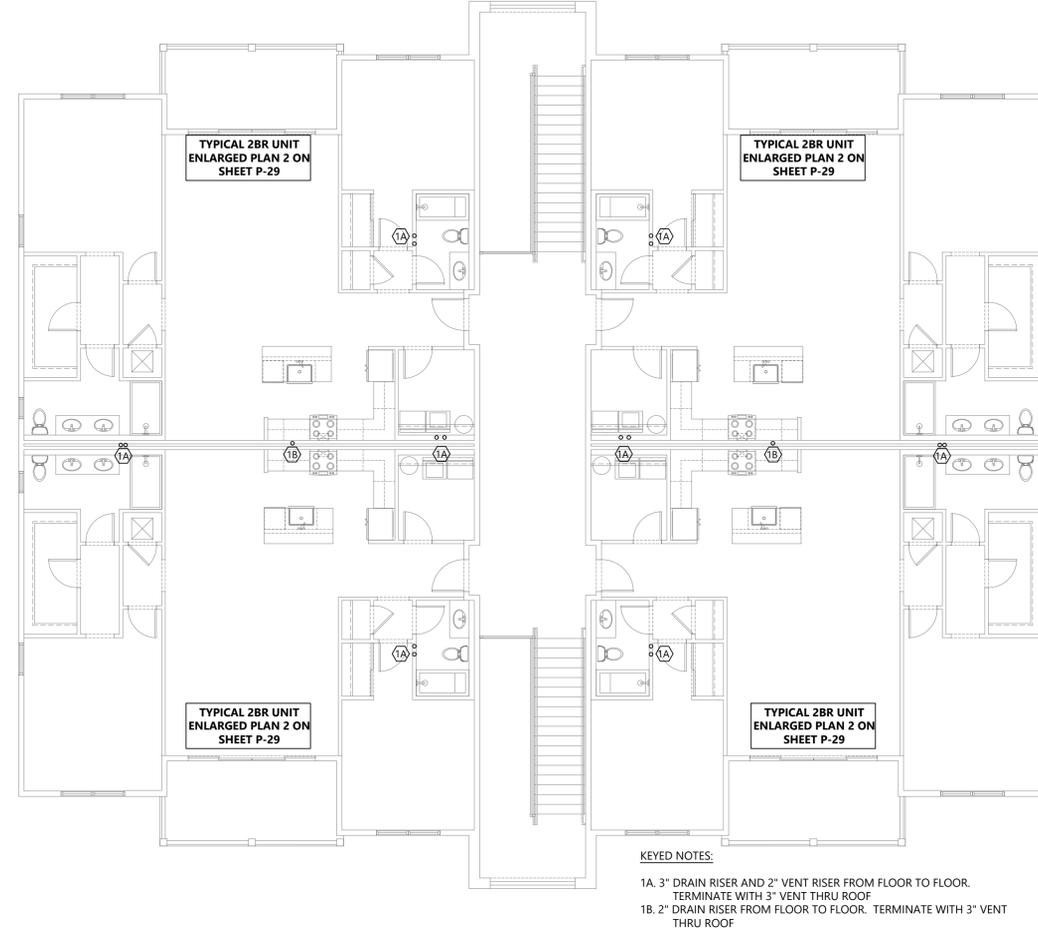
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**PLUMBING SANITARY
& SUPPLY PLAN BLDG
2 THIRD FLOOR**

SHEET #:

P-3



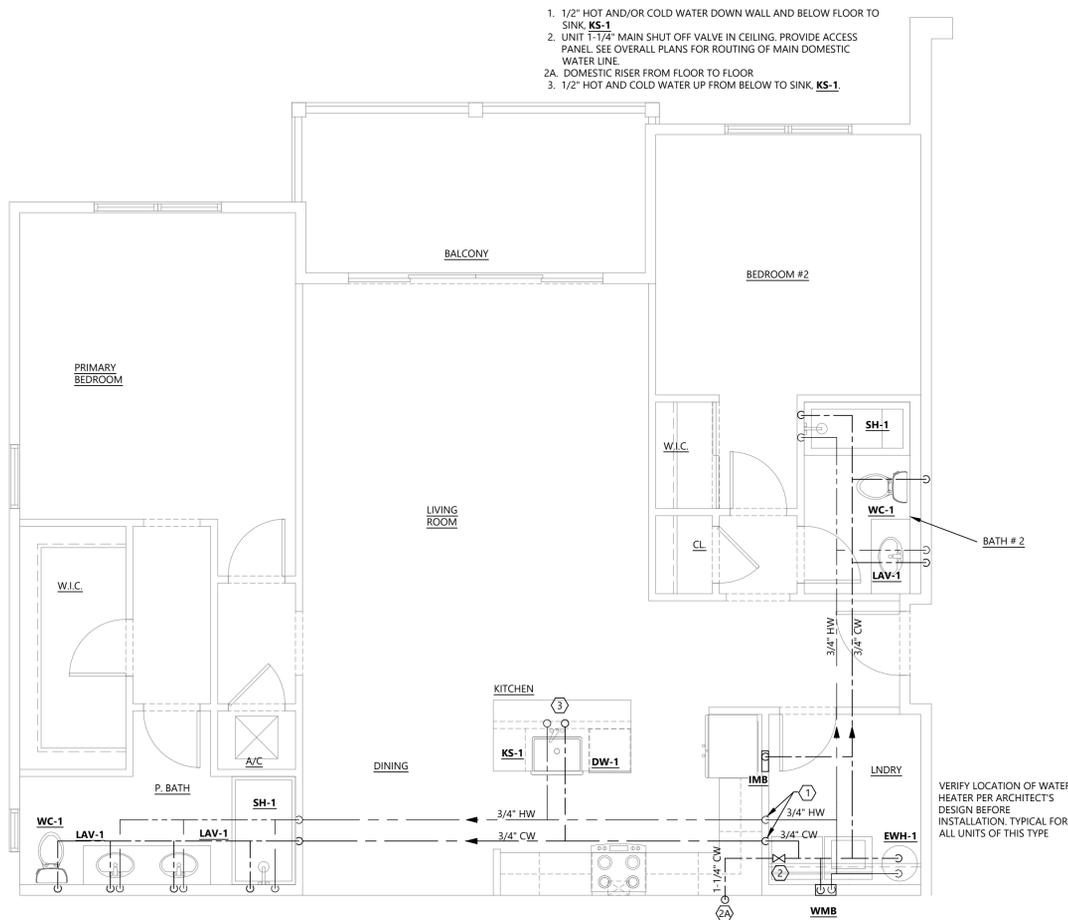
1 PLUMBING SUPPLY PLAN BLDG 2 THIRD FLOOR
1/8" = 1'-0"



2 PLUMBING SANITARY PLAN BUILDING 2 THIRD FLOOR
1/8" = 1'-0"

KEYED NOTES:

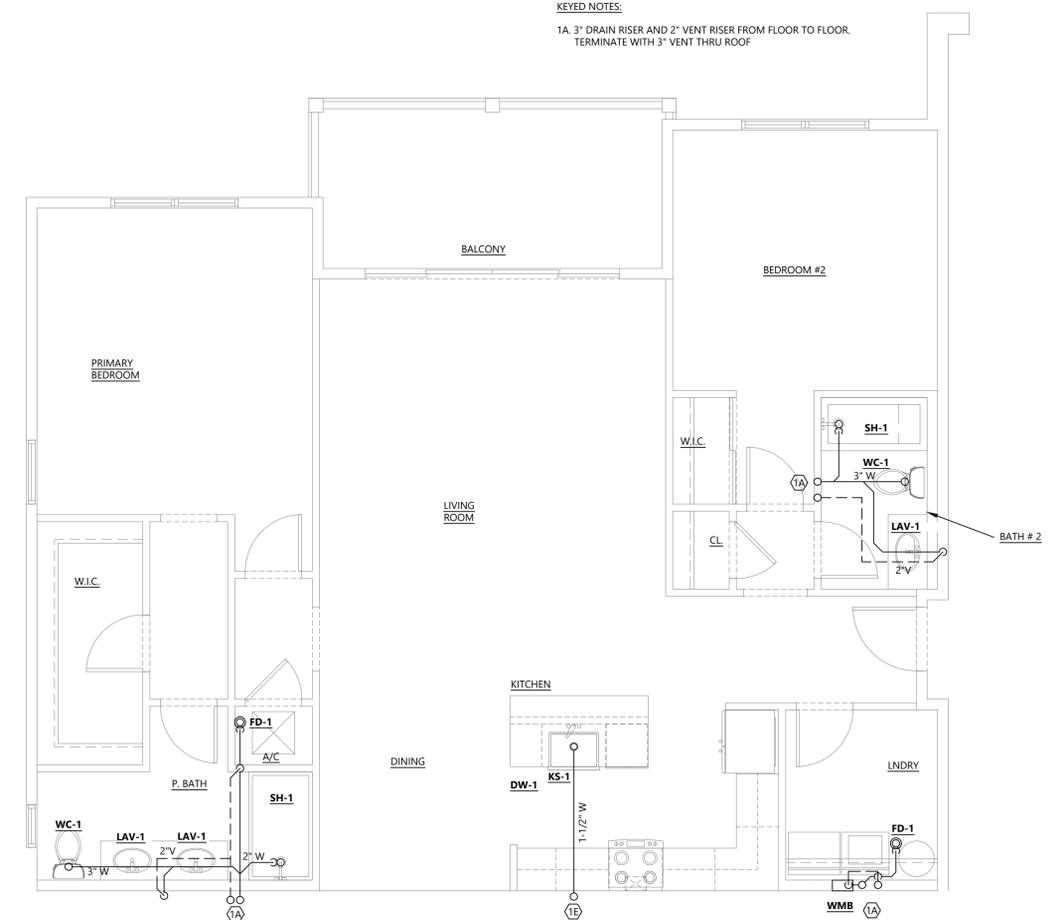
- 1/2" HOT AND/OR COLD WATER DOWN WALL AND BELOW FLOOR TO SINK, **KS-1**
- UNIT 1-1/4" MAIN SHUT OFF VALVE IN CEILING, PROVIDE ACCESS PANEL. SEE OVERALL PLANS FOR ROUTING OF MAIN DOMESTIC WATER LINE.
- 2A. DOMESTIC RISER FROM FLOOR TO FLOOR
3. 1/2" HOT AND COLD WATER UP FROM BELOW TO SINK, **KS-1**.



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



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

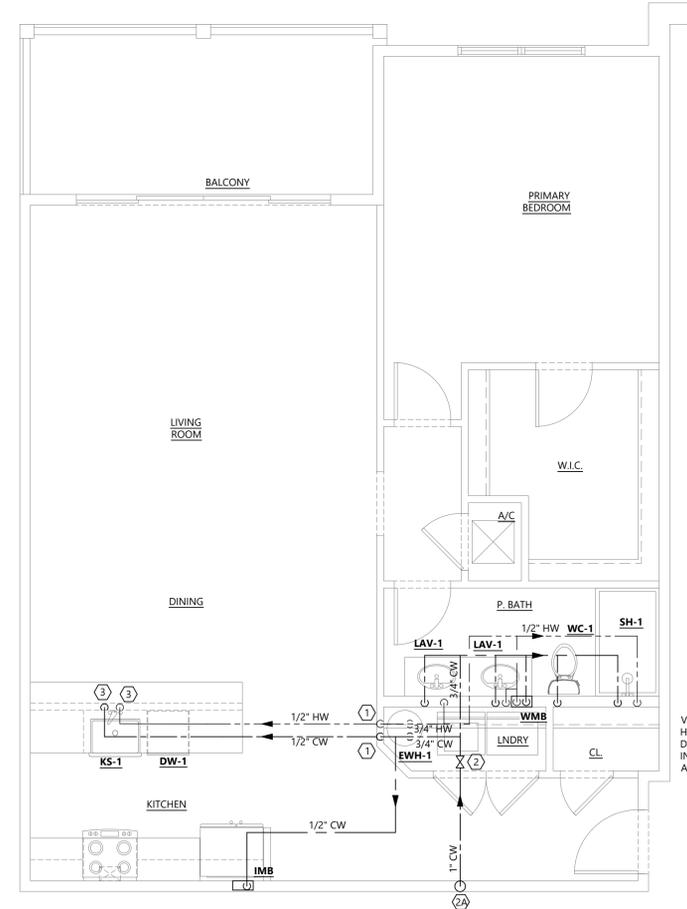
KEYED NOTES:

- 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.
- 2A. DOMESTIC RISER FROM FLOOR TO FLOOR
3. 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

KEYED NOTES:

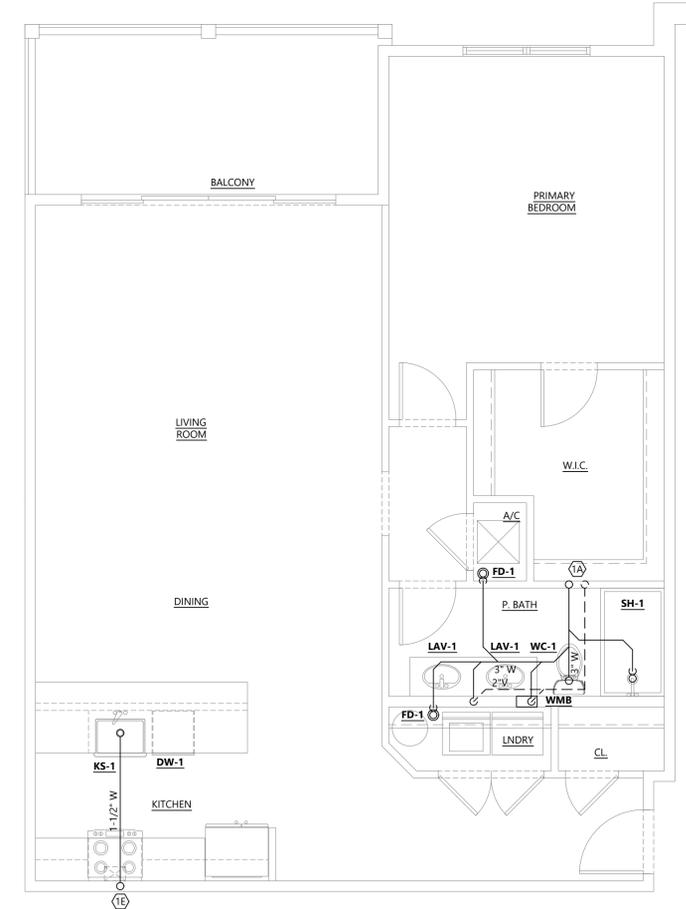
- 1/2" HOT AND/OR COLD WATER DOWN WALL AND BELOW FLOOR TO SINK, **KS-1**
- UNIT 1-1/4" MAIN SHUT OFF VALVE IN CEILING, PROVIDE ACCESS PANEL. SEE OVERALL PLANS FOR ROUTING OF MAIN DOMESTIC WATER LINE.
- 2A. DOMESTIC RISER FROM FLOOR TO FLOOR
3. 1/2" HOT AND COLD WATER UP FROM BELOW TO SINK, **KS-1**.



3 TYPICAL 1 BR 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.



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



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

DWG DESCRIPTION:
ENLARGED UNIT PLANS

SHEET #:
P-4

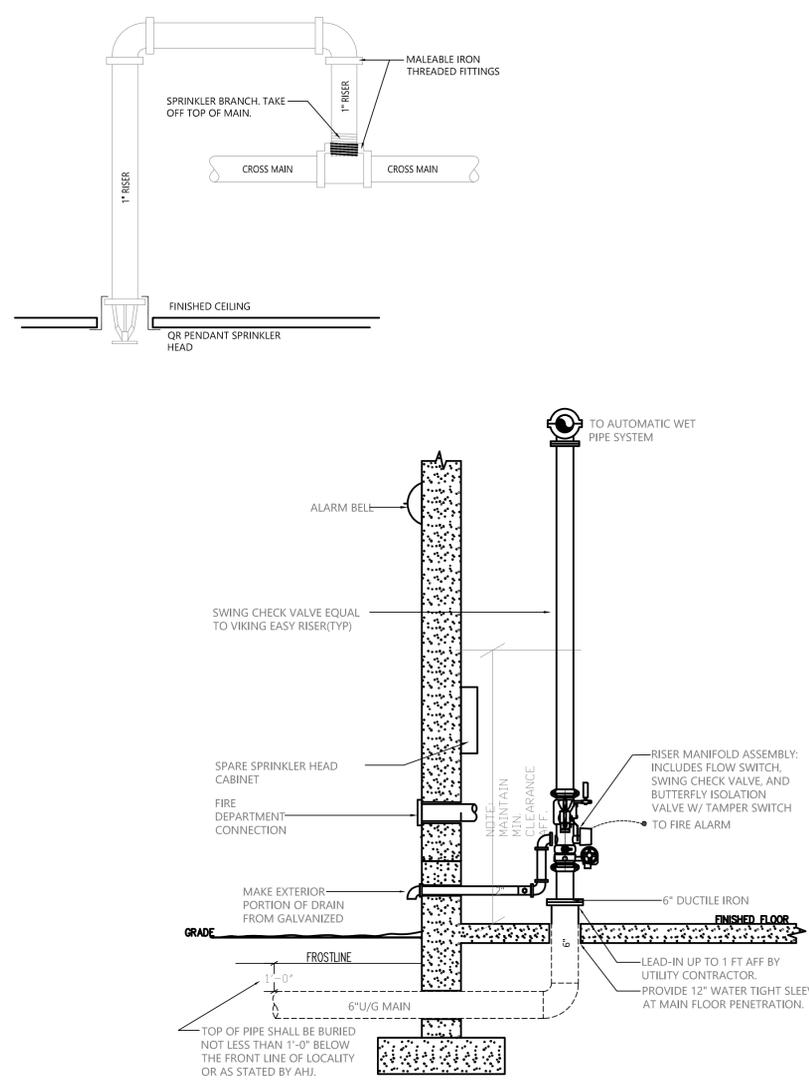
SPRINKLER DESIGN CRITERIA					
OCCUPANCY	HAZARD	REMOTE AREA	HOSE STREAM	MAX HEAD COVERAGE	REMARKS
LIGHT HAZARD	0.10 GPM/SF	1500 SF	100 GPM	225 SF/HD	QR RESIDENTIAL SPRINKLERS THROUGHOUT

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

- GENERAL PROJECT NOTES:
1. MOUNT SPRINKLERS WITHIN CENTER OF A.C.T.
 2. SPRINKLERS SHALL BE A MINIMUM 4" FROM WALLS/OBSTRUCTION.
 3. SPRINKLERS SHALL BE INSTALLED A MINIMUM OF 6'-0" APART.
 4. SOFFITS ARE TO BE SPRINKLED, UNLESS ARE APPLICABLE TO EXEMPTION PER NFPA 8.6.5.1.2.
 5. PROVIDE ADDITIONAL FIRE SPRINKLERS, AS MAY BE DIRECTED BY FIRE MARSHALL, AT NO ADDITIONAL COST TO OWNER.
 6. PROVIDE UPRIGHT HEADS WITHIN OPEN CEILINGS.
 7. PROVIDE SEMI RECESSED HEADS WITHIN A.C.T. CEILINGS.
 8. PROVIDE CONCEALED HEADS WITHIN GYPSUM CEILINGS.
 9. 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

- A. 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 PROTECTION 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.
- B. 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.
- C. 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.
- D. OPERATION AND MAINTENANCE MANUALS TO BE PROVIDED TO THE OWNER BY THE FIRE PROTECTION CONTRACTOR.
- E. 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.
- F. 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.
- G. GATE VALVES WILL BE MADE OF AN IRON BODY, BRONZE TRIM, RISING OUTSIDE SCREW AND YOKE WITH SOLID WEDGE UL/FM LISTED AND APPROVED.
- H. 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.
- I. FIRE PROTECTION CONTRACTOR TO INSTALL PIPING IN ACCORDANCE WITH NFPA 13R 2013 ED. SEAL PIPING AND SLEEVE PENETRATIONS TO ACHIEVE FIRE RESISTANCE TO FIRE SEPARATION AS REQUIRED.

FIRE PROTECTION CRITERIA

- A. 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.
- B. FIRE SPRINKLER ACCEPTANCE TESTING SHALL BE PROVIDED PER NFPA-13R 2013 ED.
- C. SPRINKLER SYSTEM FOR THE BUILDING SHALL BE WET PIPE SPRINKLER SYSTEM, DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13R 2013 ED.
- D. 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.
- E. 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.
- F. 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.
- G. 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. SPRINKLERS ARE PERMITTED TO BE OMITTED IN CLOSETS ON BALCONIES PER NFPA 13-R 2013 ED. SECTION 6.6.7
- H. 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

- A. 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.
- B. 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.
- C. 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.
- D. 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.
- E. 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.
- F. 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.
- G. 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
BLDG 2

SHEET #:
FP-00