

DISCOVERY PARK - LOT #10-B

LEE'S SUMMIT, MO

PRINTS ISSUED

11/27/2024 - CITY SUBMISSION

REVISIONS:

1 01/22/25 ADDENDUM #1



ARCHITECTURE
INTERIOR DESIGN
ENGINEERING
PLANNING

1526 Grand Boulevard
Kansas City, MO 64108-1404
p: 816.472.1448

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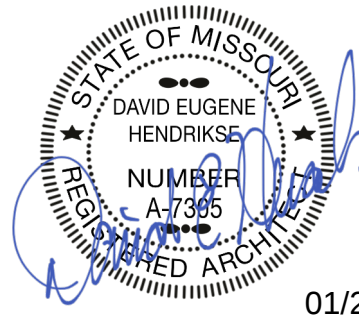
PROJECT CERTIFICATION

I, **David E. Hendrikse**, hereby specify pursuant to the governing requirements of the state, that the documents intended to be authenticated by my seal are limited to:

G-001	G-200	G-212	A-106	A-202	A-403	A-502
G-001.1	G-201	G-300	A-110	A-203	A-404	A-503
G-002	G-202	G-301	A-111	A-204	A-405	A-504
G-003	G-203	G-302	A-112	A-300	A-406	A-505
G-004	G-204	G-303	A-113	A-301	A-407	A-506
G-005	G-205	AS-100	A-114	A-302	A-408	A-507
G-006	G-206	AS-101	A-115	A-303	A-409	A-508
G-007	G-207	A-101	A-120	A-304	A-410	A-501
G-100	A-102	A-102	A-121	A-305	A-411	A-502
G-101	G-208	A-103	A-125	A-400	A-415	A-603
G-102	G-210	A-104	A-200	A-401	A-500	A-700
G-103	G-211	A-105	A-201	A-402	A-501	A-710

and I hereby disclaim any responsibility for all other plans, specifications, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

SEAL



David E. Hendrikse, AIA

REGIONAL MAP

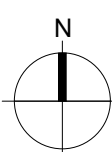


VICINITY MAP



DISCOVERY PARK - LOT #10-B

140 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064



SHEET INDEX

GENERAL

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CIVIL UNDER SEPARATE REVIEW, REFERENCE FDP

STRUCTURAL

Sheet Issue Date	Sheet Number	Sheet Name	Rev.	Current Revision Date
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ARCHITECTURAL

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12/20/24	A-304	STAIR 1 SECTION & PLANS		
12/20/24	A-305	STAIR 2 SECTION & PLANS		
12/20/24	A-400	ABERDEEN (2 BR) - TYPE A		
12/20/24	A-401	ABERDEEN (2 BR) - TYPE B		
12/20/24	A-402	ADRIAN (1 BR) - TYPE B		
12/20/24	A-403	ADRIAN LRG (1 BR) - TYPE B	1	01/22/25
12/20/24	A-404	ARA (1 BR) - TYPE B		
12/20/24	A-405	CONWAY III (1 BR) - TYPE B		
12/20/24	A-406	DELMORE (1 BR) - TYPE B		
12/20/24	A-407	HALL (1 BR) - TYPE B		
12/20/24	A-408	HURLEY (2 BR) - TYPE B	1	01/22/25
12/20/24	A-409	CORNER HURLEY LS (2 BR) - TYPE B	1	01/22/25
12/20/24	A-410	LANA (2 BR) - TYPE B		
12/20/24	A-411	ENLARGED COMMON SPACES		
12/20/24	A-415	UNIT DETAILS		
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MECHANICAL

Sheet Issue Date	Sheet Number	Sheet Name	Rev.	Current Revision Date
12/20/24	MEP1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET	1	01/22/25
12/20/24	MEP2	SITE UTILITIES PLAN		
12/20/24	MEP3	SITE LIGHTING PLAN		
12/20/24	MEP4	MEP PLAN - ROOF		
12/20/24	M101	HVAC PLAN - FIRST FLOOR - AREA A		
12/20/24	M102	HVAC PLAN - SECOND FLOOR - AREA A		
12/20/24	M103	HVAC PLAN - THIRD FLOOR - AREA A		
12/20/24	M110	HVAC PLAN - GARAGE		
12/20/24	M111	HVAC PLAN - FIRST FLOOR - AREA B		
12/20/24	M112	HVAC PLAN - SECOND FLOOR - AREA B		
12/20/24	M113	HVAC PLAN - THIRD FLOOR - AREA B		
12/20/24	M501	HVAC DETAILS		
12/20/24	M601	HVAC SCHEDULES		

ELECTRICAL

Sheet Issue Date	Sheet Number	Sheet Name	Rev.	Current Revision Date
12/20/24	EP101	POWER PLAN - FIRST FLOOR - AREA A		
12/20/24	EP102	POWER PLAN - SECOND FLOOR - AREA A		
12/20/24	EP103	POWER PLAN - THIRD FLOOR - AREA A		
12/20/24	EP110	POWER PLAN - GARAGE		
12/20/24	EP111	POWER PLAN - FIRST FLOOR - AREA B		
12/20/24	EP112	POWER PLAN - SECOND FLOOR - AREA B		
12/20/24	EP113	POWER PLAN - THIRD FLOOR - AREA B		
12/20/24	EL101	LIGHTING PLAN - FIRST FLOOR - AREA A		
12/20/24	EL102	LIGHTING PLAN - SECOND FLOOR - AREA A		
12/20/24	EL103	LIGHTING PLAN - THIRD FLOOR - AREA A		
12/20/24	EL110	LIGHTING PLAN GARAGE		
12/20/24	EL111	LIGHTING PLAN - FIRST FLOOR - AREA B		
12/20/24	EL112	LIGHTING PLAN - SECOND FLOOR - AREA B		
12/20/24	EL113	LIGHTING PLAN - THIRD FLOOR - AREA B		
12/20/24	EL201	EXTERIOR BUILDING MOUNTED LIGHTING PLAN		

PROJECT DATA

PROJECT DESIGN INFORMATION

NEW CONSTRUCTION:

ZONING: PMIX - PLANNED MIXED USE DISTRICT
CODE:

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRIC CODE
2009 ACCESSIBILITY CODE (ICC/ANSI) 117-1
LEE'S SUMMIT AMENDMENTS TO THE ENERGY CODE

OCCUPANCY GROUP: R-2, APARTMENTS
S-2, OPEN PARKING GARAGE

TYPE OF CONSTRUCTION: R-2, TYPE VA
S-2, TYPE IIA

ENERGY CONSERVATION: WALLS AS PART OF BLDG ENVELOPE R-13
FLOORS AS PART OF BLDG ENVELOPE R-19
ROOFS AS PART OF BLDG ENVELOPE R-19
CEILINGS AS PART OF BLDG ENVELOPE R-30

BUILDING SUMMARY:

NUMBER: (1) TOTAL BUILDINGS
HEIGHT: 3 STORIES, 42'-0"

SQUARE FOOTAGES:

	GROSS	NET
GARAGE	13,738 S.F.	
FIRST FLOOR	22,980 S.F.	22,414 S.F.
SECOND FLOOR	22,980 S.F.	22,414 S.F.
THIRD FLOOR	22,980 S.F.	22,414 S.F.

UNIT SUMMARY: OVERALL UNIT TOTAL - (57) UNITS

TYPE "A" UNITS (2% OF TOTAL) (2) UNITS - ABERDEEN "A"
HIVI UNITS (2% OF TOTAL) (1) UNITS - ADRIAN "HIVI"

STANDARD UNITS

(10) UNITS - ABERDEEN
(17) UNITS - ADRIAN
(3) UNITS - ADRIAN - LRG
(3) UNITS - ARA
(6) UNITS - CONWAY III
(3) UNITS - DELMORE
(3) UNITS - HALL
(3) UNITS - HURLEY LS
(3) UNITS - HURLEY LS CORNER
(3) UNITS - LANA

	GROSS	NET
SQUARE FOOTAGE:		
ABERDEEN "A"	1,283 S.F.	1,216 S.F.
ABERDEEN "B"	1,283 S.F.	1,216 S.F.
ADRIAN	798 S.F.	748 S.F.
ADRIAN - LRG	1,037 S.F.	978 S.F.
ARA	572 S.F.	530 S.F.
CONWAY III	935 S.F.	875 S.F.
DELMORE	1,058 S.F.	988 S.F.
HALL	1,019 S.F.	961 S.F.
HURLEY LS	1,363 S.F.	1,293 S.F.
HURLEY LS CORNER	1,299 S.F.	1,226 S.F.
LANA	1,022 S.F.	961 S.F.

SEE CIVIL FOR SITE SUMMARY

NOTE: SQUARE FOOTAGE

-GROSS - COMMON SPACE CALCULATION: OUTSIDE PERIMETER OF STUD (ENTIRE BUILDING) LESS THE TOTAL OF THE GROSS UNIT SQUARE FOOTAGE PER FLOOR.
-GROSS - UNIT CALCULATION: CENTERLINE OF PARTY WALL TO OUTSIDE OF EXTERIOR STUD WALL AND/OR OUTSIDE OF CORRIDOR STUD WALL.
-NET - PAINT-TO-PAINT AT PERIMETER, TAKEN FROM INSIDE OF DEMISING, EXTERIOR, AND CORRIDOR WALLS.

ELECTRICAL

Sheet Issue Date	Sheet Number	Sheet Name	Rev.	Current Revision Date
12/20/24	FP101	FIRE PROTECTION PLAN - GARAGE & FIRST FLOOR		
12/20/24	FP102	FIRE PROTECTION PLAN - SECOND AND THIRD FLOOR		
12/20/24	E501	ELECTRICAL DETAILS		
12/20/24	E601	ELECTRICAL SCHEDULES		

PROJECT TEAM

OWNER

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STRUCTURAL ENGINEER

PRINTS ISSUED
11/27/2024 - CITY SUBMISSION
REVISIONS:
1 01/22/25 ADDENDUM #1

PLUMBING					
Sheet Issue Date	Sheet Number	Sheet Name	Rev.	Current Revision Date	
12/20/24	PS101	SANITARY SEWER PLAN - FIRST FLOOR - AREA A			
12/20/24	PS102	SANITARY SEWER PLAN - SECOND FLOOR - AREA A			
12/20/24	PS103	SANITARY SEWER PLAN - THIRD FLOOR - AREA A			
12/20/24	PS110	SANITARY SEWER PLAN - GARAGE			
12/20/24	PS111	SANITARY SEWER PLAN - FIRST FLOOR - AREA B	1	01/22/25	
12/20/24	PS112	SANITARY SEWER PLAN - SECOND FLOOR - AREA B	1	01/22/25	
12/20/24	PS113	SANITARY SEWER PLAN - THIRD FLOOR - AREA B	1	01/22/25	
12/20/24	PS201	STORM DRAIN PLAN - GARAGE			
12/20/24	PS202	STORM DRAIN PLAN - FIRST & SECOND FLOOR			
12/20/24	PS203	STORM DRAIN PLAN - THIRD FLOOR & ROOF			
12/20/24	PW101	DOMESTIC WATER PLAN - FIRST FLOOR - AREA A			
12/20/24	PW102	DOMESTIC WATER PLAN - SECOND FLOOR - AREA A			
12/20/24	PW103	DOMESTIC WATER PLAN - THIRD FLOOR - AREA A			
12/20/24	PW110	DOMESTIC WATER PLAN - GARAGE			
12/20/24	PW111	DOMESTIC WATER PLAN - FIRST FLOOR - AREA B			
12/20/24	PW112	DOMESTIC WATER PLAN - SECOND FLOOR - AREA B			
12/20/24	PW113	DOMESTIC WATER PLAN - THIRD FLOOR - AREA B			
12/20/24	P501	PLUMBING DETAILS & SCHEDULES			

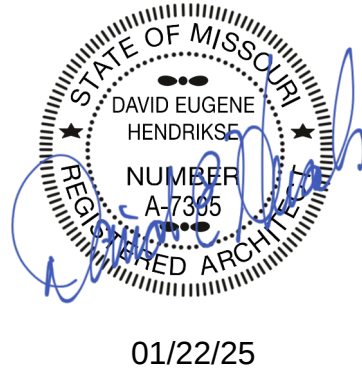
UMEP					
Sheet Issue Date	Sheet Number	Sheet Name	Rev.	Current Revision Date	
12/20/24	UMEP1.1	MEP PLAN - ARA			
12/20/24	UMEP1.2	MEP PLAN - ADRIAN			
12/20/24	UMEP1.3	MEP PLAN - ADRIAN LARGE			
12/20/24	UMEP1.4	MEP PLAN - DELMORE			
12/20/24	UMEP1.5	MEP PLAN - HALI			
12/20/24	UMEP2.1.1	HVAC & WATER PLAN - ABERDEEN TYPE A			
12/20/24	UMEP2.1.2	POWER & LIGHTING PLAN - ABERDEEN TYPE A			
12/20/24	UMEP2.2.1	HVAC & WATER PLAN - ABERDEEN TYPE B			
12/20/24	UMEP2.2.2	POWER & LIGHTING PLAN - ABERDEEN TYPE B			
12/20/24	UMEP2.3.1	HVAC & WATER PLAN - CONWAY III			
12/20/24	UMEP2.3.2	POWER & LIGHTING PLAN - CONWAY III	1	01/22/25	
12/20/24	UMEP2.4.1	HVAC & WATER PLAN - HURLEY LS	1	01/22/25	
12/20/24	UMEP2.4.2	POWER & LIGHTING PLAN - HURLEY LS	1	01/22/25	
12/20/24	UMEP2.5.1	HVAC & WATER PLAN - HURLEY LS TYPE B	1	01/22/25	
12/20/24	UMEP2.5.2	POWER & LIGHTING PLAN - HURLEY LS TYPE B	1	01/22/25	
12/20/24	UMEP2.6.1	HVAC & WATER PLAN - LANA	1	01/22/25	
12/20/24	UMEP2.6.2	POWER & LIGHTING PLAN - LANA	1	01/22/25	



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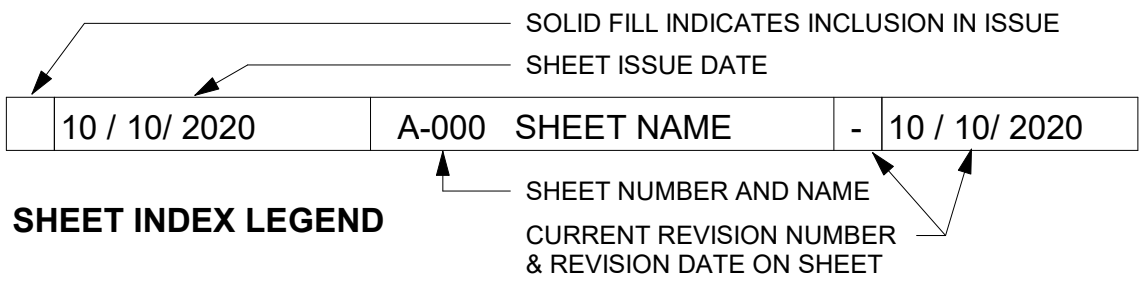


DISCOVERY PARK - LOT #10-B

LEE'S SUMMIT, MO

SHEET TITLE
SHEET INDEX (CONT.)
PROJECT NUMBER: 24018
SHEET NUMBER:

G-001.1





LEVEL	AREA	OCC.	OCC. LOAD	MAX. OCC.
0	13,738	S-2	200 SQFT	69
1	22,980	R-2	200 SQFT	115
2	22,980	R-2	200 SQFT	115
3	22,980	R-2	200 SQFT	115

CHAPTER SEVEN

704 FIRE-RESISTANCE RATING OF STRUCTURAL MEMBERS:	1 HOUR RATED SPRAY APPLIED FIRE RESISTANT MATERIAL	
705 5 EXTERIOR WALLS FIRE-RESISTANCE RATING:	FIRE SEPARATION DISTANCE > 10'-0" RATED EXPOSURE FROM INSIDE ONLY	
TABLE 705.8 MAX AREA OF EXTERIOR WALL OPENINGS:	FIRE SEPARATION DISTANCE > 25'-0" UNPROTECTED, NO LIMIT	
706 FIRE WALLS:	2 HOUR RATED	
707 FIRE BARRIERS:	1 HOUR RATED	
708 FIRE PARTITIONS:	1 HOUR RATED	
709 SMOKE BARRIERS:	N/A	
710 SMOKE PARTITIONS:	N/A	
711 FLOOR & ROOF ASSEMBLIES:	1 HOUR RATED	
712 VERTICAL OPENINGS:	N/A	
713 SHAFT ENCLOSURES:	1 HOUR RATED	
714 PENETRATIONS:	MATCH ASSEMBLY RATING	
715 FIRE-RESISTANT JOINT SYSTEM:	MATCH ASSEMBLY RATING	
TABLE 716.1(2) OPENING FIRE PROTECTION & RATING:	2 HOUR FIRE BARRIER: 1 HOUR FIRE BARRIER: 1 HOUR CORRIDOR:	90 MINUTE DOOR 60 MINUTE DOOR 20 MINUTE DOOR
717 DUCTS AND AIR TRANSFER OPENINGS:	REQUIRED AT RATED PENETRATIONS, 1.5 HOUR DAMPER RATING	
SECTION 719 CONCEALED SPACES:	FIRESTOPPING & PROTECTION	

903 AUTOMATIC SPRINKLER SYSTEM:	R-2, REQUIRED: S-2, REQUIRED:	NFPA 13R NFPA 13, DRY SYSTEM
905 STANDPIPE SYSTEM:	CLASS I REQUIRED	
906 PORTABLE FIRE EXTINGUISHERS:	REQUIRED PER NFPA 10, 75-0" MAX TRAVEL	
907 FIRE ALARM & DETECTION SYSTEM:	REQUIRED PER NFPA 72	
909 SMOKE CONTROL SYSTEM:	COMPLY WITH IMC	

TABLE 1004.5 MAX FLOOR AREA ALLOWANCES PER OCCUPANT:	R-2, 200 GROSS
	S-2, 200 GROSS

	SECTION 1005 MEANS OF EGRESS SIZING:	STAIRS 0.20CC, W/ SPRINKLER EXCEPTION OTHER EGRESS 0.15/0CC, W/ SPRINKLER EXCP.
	TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY:	R-2: 20.0CC., 125' MAX. PATH OF EGRESS S: 29.0CC., 100' MAX. PATH OF EGRESS
	TABLE 1006.3.2 MINIMUM NUMBER OF EXITS PER STORY:	2 EXITS REQ'D W/ OCCUPANT LOAD/STORY 1-500
	1009.3.3 AREA OF REFUGE:	NOT REQUIRED W/ SPRINKLER EXCEPTION
	1009.8.2 TWO-WAY COMMUNICATION:	REQ'D. AT EACH ELEV. LANDING ABOVE GRADE
	1011.2 STAIRWAY WIDTH CAPACITY:	44" MIN.
	1011.12 STAIRWAY TO ROOF:	UNOCCUPIED ROOF. ACCESS VIA ROOF HATCH
	1014.2 HANDRAIL HEIGHT:	34" MIN. - 38" MAX.
	1014.6 HANDRAIL EXTENSIONS:	EXTEND HORIZONTALLY 12" BEYOND TOP RISER CONTINUE SLOPE 1 DEPTH TREAD AT BOTTOM
	1015 GUARDS:	42" MIN. HEIGHT, 4" MAX. OPENING
	TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:	R: 250' W/ 13R SPRINKLER S: 400' W/ 13 SPRINKLER

TABLE 601 FIRE RESISTANCE REQS. FOR BUILDING ELEMENTS (HOURS):	
CONSTRUCTION TYPE VA & IIA	
PRIMARY STRUCTURAL FRAME:	1 HOUR
INTERIOR BEARING WALL:	1 HOUR
EXTERIOR BEARING WALL:	1 HOUR
NON-BEARING WALL:	0 HOUR
FLOOR CONSTRUCTION:	1 HOUR
ROOF CONSTRUCTION:	1 HOUR

TABLE 602 FIRE RESISTANCE REQS. FOR EXTERIOR WALLS BASED ON FIRE SEP. DISTANCE:	
	0 HOUR <30 FEET. 0 >30 FEET
TYPE OF CONSTRUCTION	
1. UNFINISHED MAJOR ROADS	
a. Type I	1 hr.
b. Type II	0 hr.
c. Type III	0 hr.
d. Type IV	0 hr.
e. Type V	0 hr.
f. Type VI	0 hr.
g. Type VII	0 hr.
h. Type VIII	0 hr.
i. Type IX	0 hr.
j. Type X	0 hr.
k. Type XI	0 hr.
l. Type XII	0 hr.
m. Type XIII	0 hr.
n. Type XIV	0 hr.
o. Type XV	0 hr.
p. Type XVI	0 hr.
q. Type XVII	0 hr.
r. Type XVIII	0 hr.
s. Type XIX	0 hr.
t. Type XX	0 hr.
u. Type XXI	0 hr.
v. Type XXII	0 hr.
w. Type XXIII	0 hr.
x. Type XXIV	0 hr.
y. Type XXV	0 hr.
z. Type XXVI	0 hr.
aa. Type XXVII	0 hr.
ab. Type XXVIII	0 hr.
ac. Type XXIX	0 hr.
ad. Type XXX	0 hr.
ae. Type XXXI	0 hr.
af. Type XXXII	0 hr.
ag. Type XXXIII	0 hr.
ah. Type XXXIV	0 hr.
ai. Type XXXV	0 hr.
aj. Type XXXVI	0 hr.
ak. Type XXXVII	0 hr.
al. Type XXXVIII	0 hr.
am. Type XXXIX	0 hr.
an. Type XL	0 hr.
ao. Type XLI	0 hr.
ap. Type XLII	0 hr.
aq. Type XLIII	0 hr.
ar. Type XLIV	0 hr.
as. Type XLV	0 hr.
at. Type XLVI	0 hr.
au. Type XLVII	0 hr.
av. Type XLVIII	0 hr.
aw. Type XLIX	0 hr.
ax. Type L	0 hr.
ay. Type LI	0 hr.
az. Type LII	0 hr.
ba. Type LIII	0 hr.
bb. Type LIV	0 hr.
bc. Type LV	0 hr.
bd. Type LVI	0 hr.
be. Type LVII	0 hr.
bf. Type LVIII	0 hr.
bg. Type LIX	0 hr.
bh. Type LX	0 hr.
bi. Type LXI	0 hr.
bj. Type LXII	0 hr.
bk. Type LXIII	0 hr.
bl. Type LXIV	0 hr.
bm. Type LXV	0 hr.
bn. Type LXVI	0 hr.
bo. Type LXVII	0 hr.
bp. Type LXVIII	0 hr.
bq. Type LXIX	0 hr.
br. Type LXX	0 hr.
bs. Type LXXI	0 hr.
bt. Type LXXII	0 hr.
bu. Type LXXIII	0 hr.
bv. Type LXXIV	0 hr.
bw. Type LXXV	0 hr.
bx. Type LXXVI	0 hr.
by. Type LXXVII	0 hr.
bz. Type LXXVIII	0 hr.
ca. Type LXXIX	0 hr.
cb. Type LXXX	0 hr.
cc. Type LXXXI	0 hr.
cd. Type LXXXII	0 hr.
ce. Type LXXXIII	0 hr.
cf. Type LXXXIV	0 hr.
cg. Type LXXXV	0 hr.
ch. Type LXXXVI	0 hr.
ci. Type LXXXVII	0 hr.
cj. Type LXXXVIII	0 hr.
ck. Type LXXXIX	0 hr.
cl. Type LXXXX	0 hr.
cm. Type LXXXXI	0 hr.
cn. Type LXXXXII	0 hr.
co. Type LXXXXIII	0 hr.
cp. Type LXXXXIV	0 hr.
cq. Type LXXXXV	0 hr.
cr. Type LXXXXVI	0 hr.
cs. Type LXXXXVII	0 hr.
ct. Type LXXXXVIII	0 hr.
cu. Type LXXXXIX	0 hr.
cv. Type LXXXXX	0 hr.
cw. Type LXXXXXI	0 hr.
cx. Type LXXXXXII	0 hr.
cy. Type LXXXXXIII	0 hr.
cz. Type LXXXXXIV	0 hr.
da. Type LXXXXXV	0 hr.
db. Type LXXXXXVI	0 hr.
dc. Type LXXXXXVII	0 hr.
dd. Type LXXXXXVIII	0 hr.
de. Type LXXXXXIX	0 hr.
df. Type LXXXXXX	0 hr.
dg. Type LXXXXXXI	0 hr.
dh. Type LXXXXXXII	0 hr.
di. Type LXXXXXXIII	0 hr.
dj. Type LXXXXXXIV	0 hr.
dk. Type LXXXXXXV	0 hr.
dl. Type LXXXXXXVI	0 hr.
dm. Type LXXXXXXVII	0 hr.
dn. Type LXXXXXXVIII	0 hr.
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eo. Type LXXXXXXXV	0 hr.
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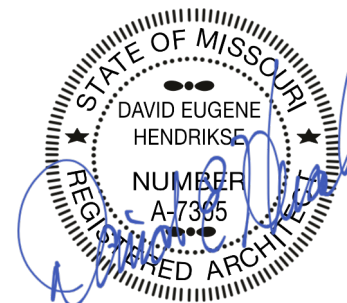
ACCESSIBILITY TO COMPLY WITH THIS CH. OF IBC, ICC A117.1, ADA, & FAIR HOUSING	
TABLE 1106.1 ACC. PARKING:	SEE CIVIL
TABLE 1107.6.1.1 ACCESSIBLE DWELLING & SLEEPING UNITS:	2% OF TOTAL REQ'D. TO BE TYPE A

1206 SOUND TRANSMISSION:	50STC RATING BETWEEN SLEEPING UNITS
--------------------------	-------------------------------------

	NUMBER OF OCCUPANTS EXITING	100	ROOM NUMBER
	REQUIRED EXIT WIDTH		
	EXIT WIDTH PROVIDED BY DESIGN		
	EXT. - RATED PARTITION (IBC CH. 6)		FIRE EXTINGUISHER CABINET OR SURFACE MTD. AT CONC.
	NON - RATED PARTITION		FIRE DEPARTMENT KNOX BOX (DEFER SUBMITTAL FOR LOC.)
	1 HR RATED PARTITION (IBC 708)		FIRE DEPARTMENT CONENCTION
	1 HR RATED BARRIER (IBC 707)		
	1 HR RATED SHAFT ENCLOSURE (IBC 713)		DOOR RATING
	2 HR RATED FIRE WALL (IBC 706)		DOOR WITH PANIC HARDWARE (SEE DOOR SCHEDULE)
			EXIT SIGNAGE; SEE ELECTRICAL
			EGRESS STARTING POINT
			EGRESS DISTANCE OF TRAVEL
			EGRESS DIRECTION OF TRAVEL

1. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. GENERAL CONTRACTOR TO PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINETS WITH FIRE EXTINGUISHERS THROUGHOUT AT ACCESSIBLE HEIGHT.

2. SIGNS IDENTIFYING FIRE PROTECTION EQUIPMENT, CONTROLS FOR AIR CONDITIONING SYSTEMS, SPRINKLER RISERS AND VALVES, OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS SHALL BE IDENTIFIED FOR THE USE OF THE FIRE DEPARTMENT PER 2018 IBC. SIGNAGE SHALL ALSO MEET 2018 IBC REQUIREMENTS FOR HEIGHT AND LETTERING. GC TO COORDINATE WITH AUTHORITY HAVING JURISDICTION ON ALL SIGNAGE.
3. KNOX BOX QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION.
4. ANNUNCIATOR PANEL AND FACP QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALL.
5. ALL DIMENSIONS ARE APPROXIMATE ON CODE PLAN. ACTUAL ARCHITECTURAL DIMENSIONS PER ARCHITECTURAL AND STRUCTURAL PLAN.



01/22/25

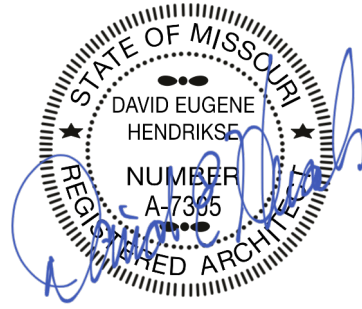
DISCOVERY PARK - LOT #10-B

LEE'S SUMMIT, MO

SHEET TITLE
CODE ANALYSIS

PROJECT NUMBER: 24018
SHEET NUMBER:

G-100



01/22/25

DISCOVERY PARK - LOT #10-B

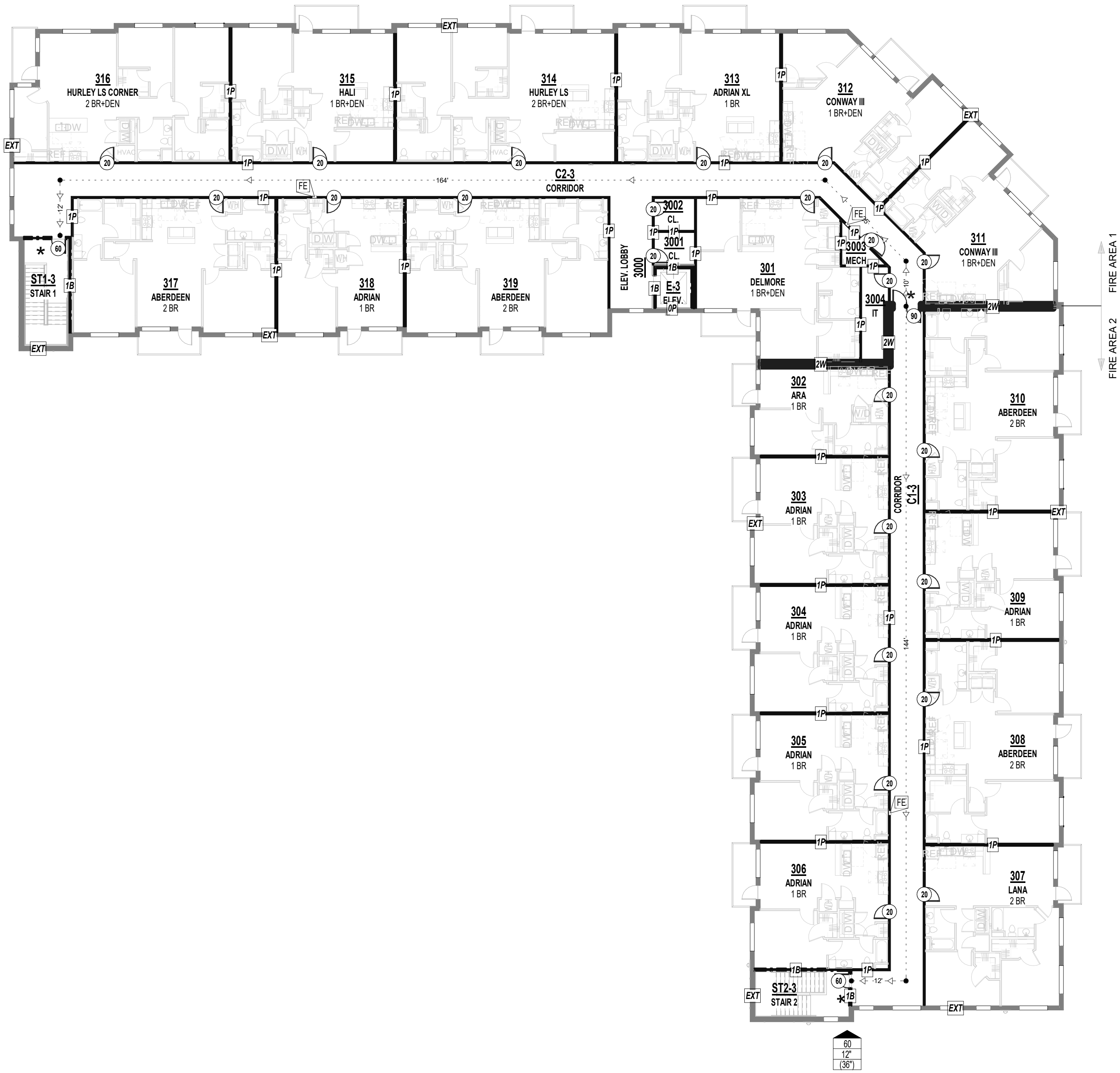
LEE'S SUMMIT, MO

SHEET TITLE
CODE ANALYSIS

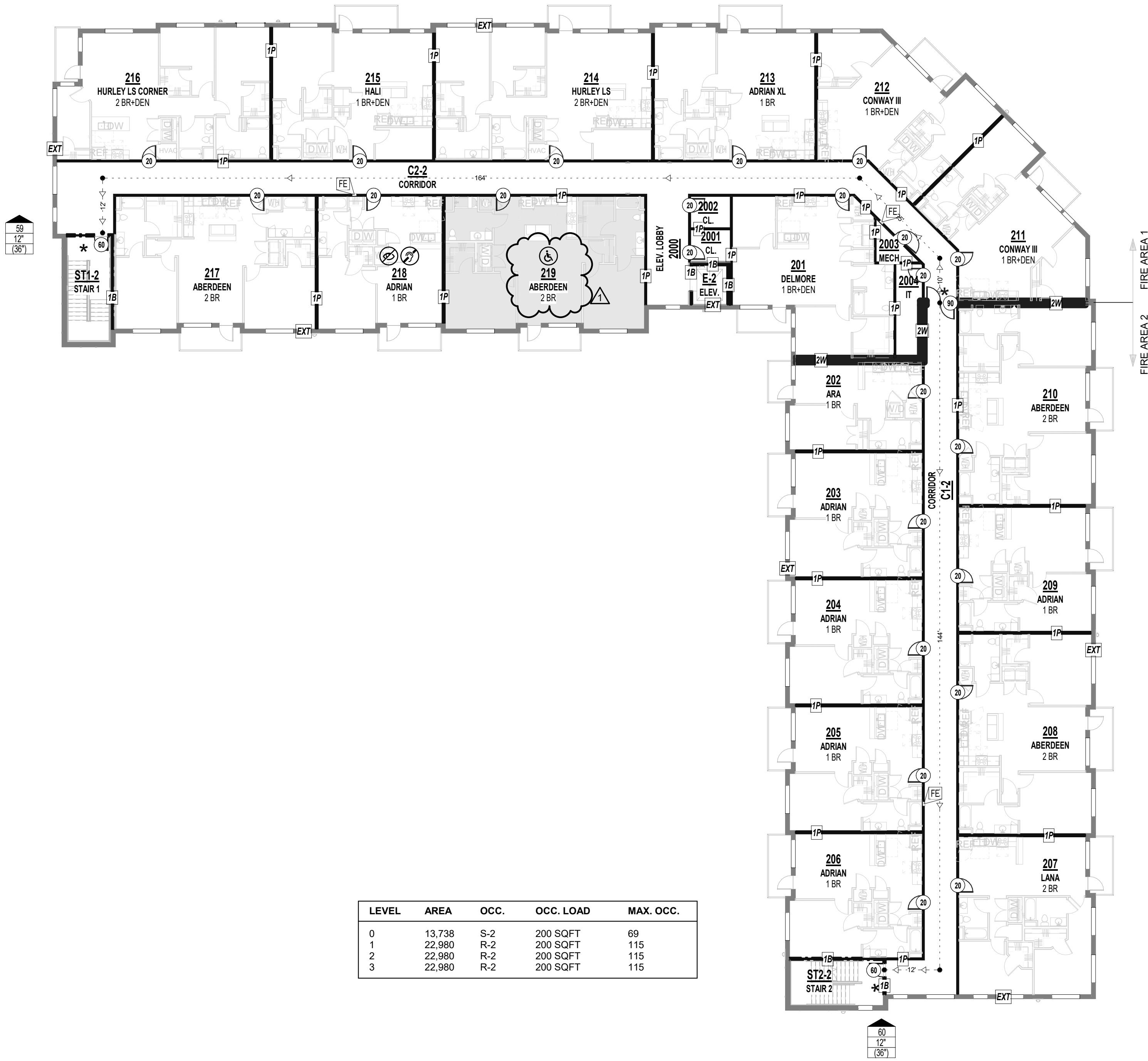
PROJECT NUMBER: 24018

SHEET NUMBER:

G-101

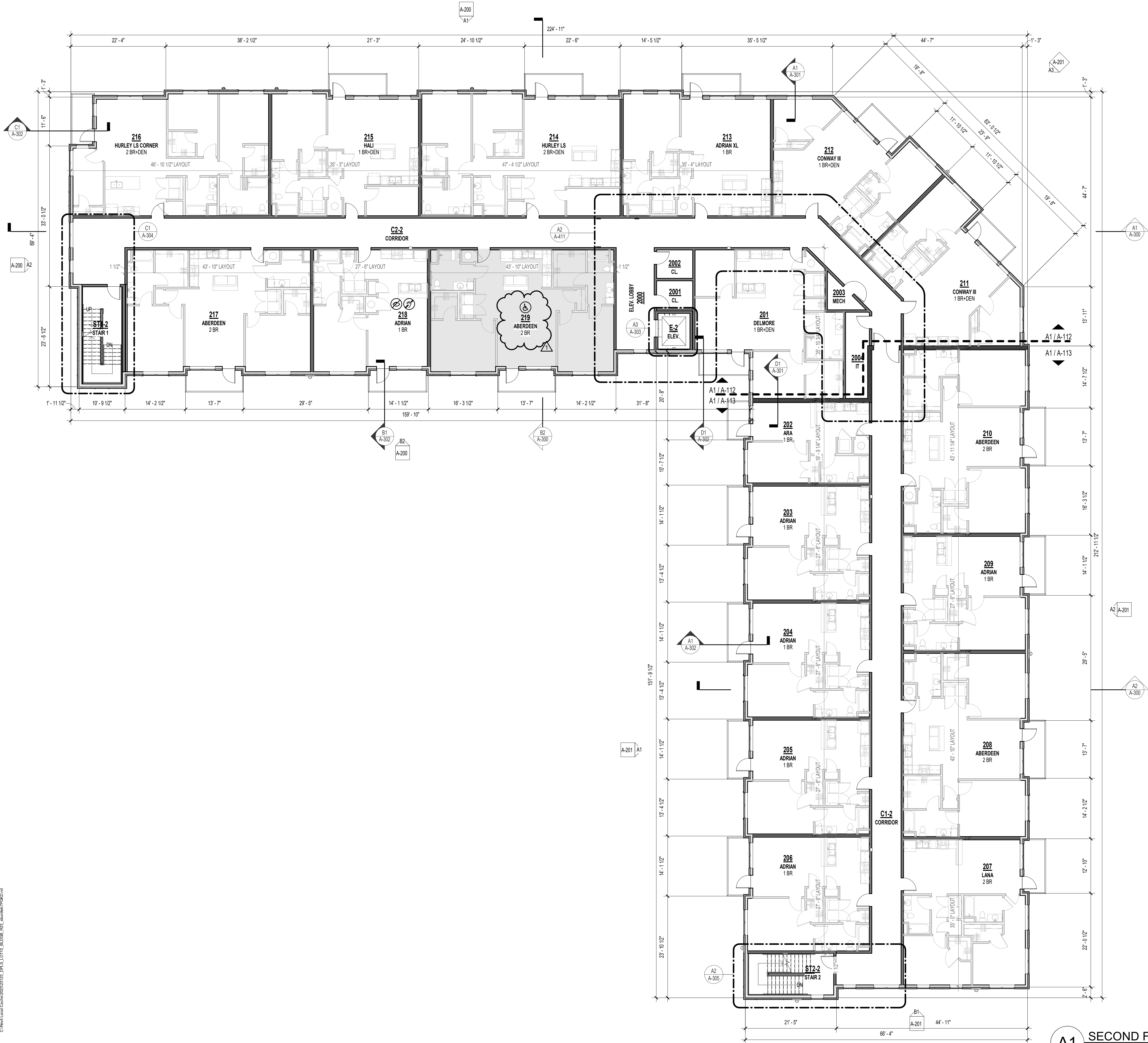


B1 THIRD FLOOR PLAN
1/16" = 1'-0"



A1 2ND FLOOR CODE PLAN
1/16" = 1'-0"

1/22/2025 1:29:28 PM
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REFERENCE G-003 FOR GENERAL NOTES

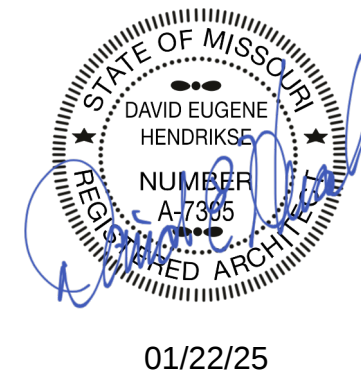
PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES G-100s
- 1 HR RATED PARTITION; SEE ASSEMBLIES G-100s
- 2 HR RATED PARTITION; SEE ASSEMBLIES G-100s
- WINDOW TYPE; SEE WINDOW SCHEDULE ON SHEET A-600
- DOOR TYPE; SEE DOOR SCHEDULE ON SHEET A-600
- PARTITION TYPE; SEE ASSEMBLIES G-100s
- FRAMING DIMENSIONS
- LAYOUT LINE DIMENSIONS
- HEARING/VISIBILITY
- ADA/ACCESSIBLE UNITS

PRINTS ISSUED
11/27/2024 - CITY SUBMISSION

REVISIONS:
1 01/22/25 ADDENDUM #1

rosemann & associates p.c.
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INTERIOR DESIGN
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1526 Grand Boulevard
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01/22/25

DISCOVERY PARK - LOT #10-B

LEE'S SUMMIT, MO

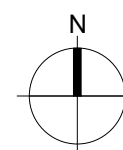
SHEET TITLE
SECOND FLOOR PLAN

PROJECT NUMBER: 24018

SHEET NUMBER:

A-103

A1 SECOND FLOOR PLAN
3/32" = 1'-0"



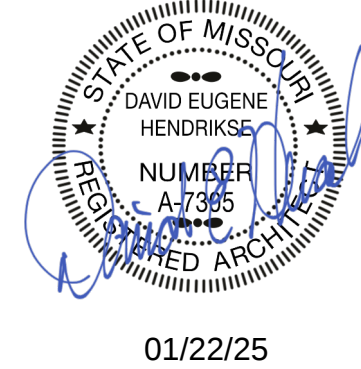
REFERENCE G-003 FOR GENERAL NOTES

PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES G-100s
- 1 HR RATED PARTITION; SEE ASSEMBLIES G-100s
- 2 HR RATED PARTITION; SEE ASSEMBLIES G-100s
- WINDOW TYPE; SEE WINDOW SCHEDULE ON SHEET A-600
- DOOR TYPE; SEE DOOR SCHEDULE ON SHEET A-600
- PARTITION TYPE; SEE ASSEMBLIES G-100s
- FRAMING DIMENSIONS
- LAYOUT LINE DIMENSIONS
- HEARING/VISIBILITY
- ADA/ACCESSIBLE UNITS

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DISCOVERY PARK - LOT #10-B

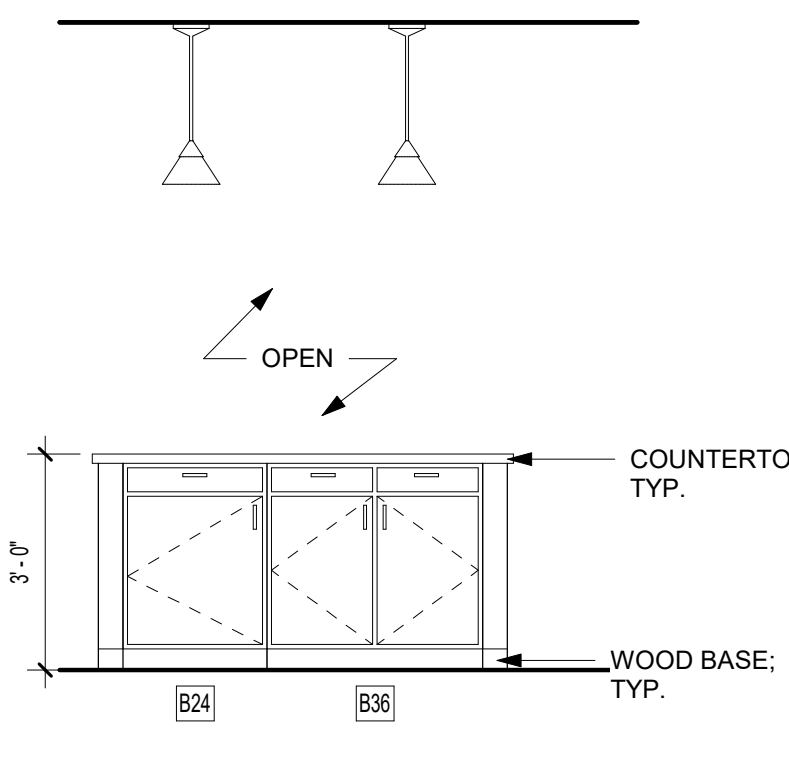
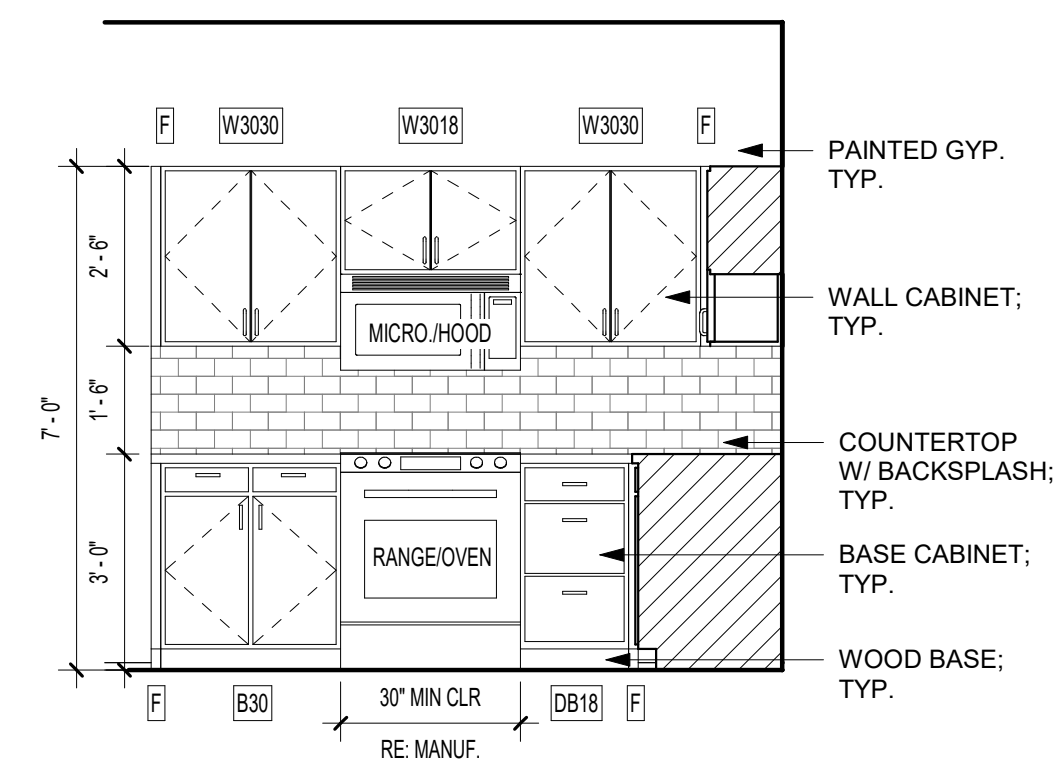
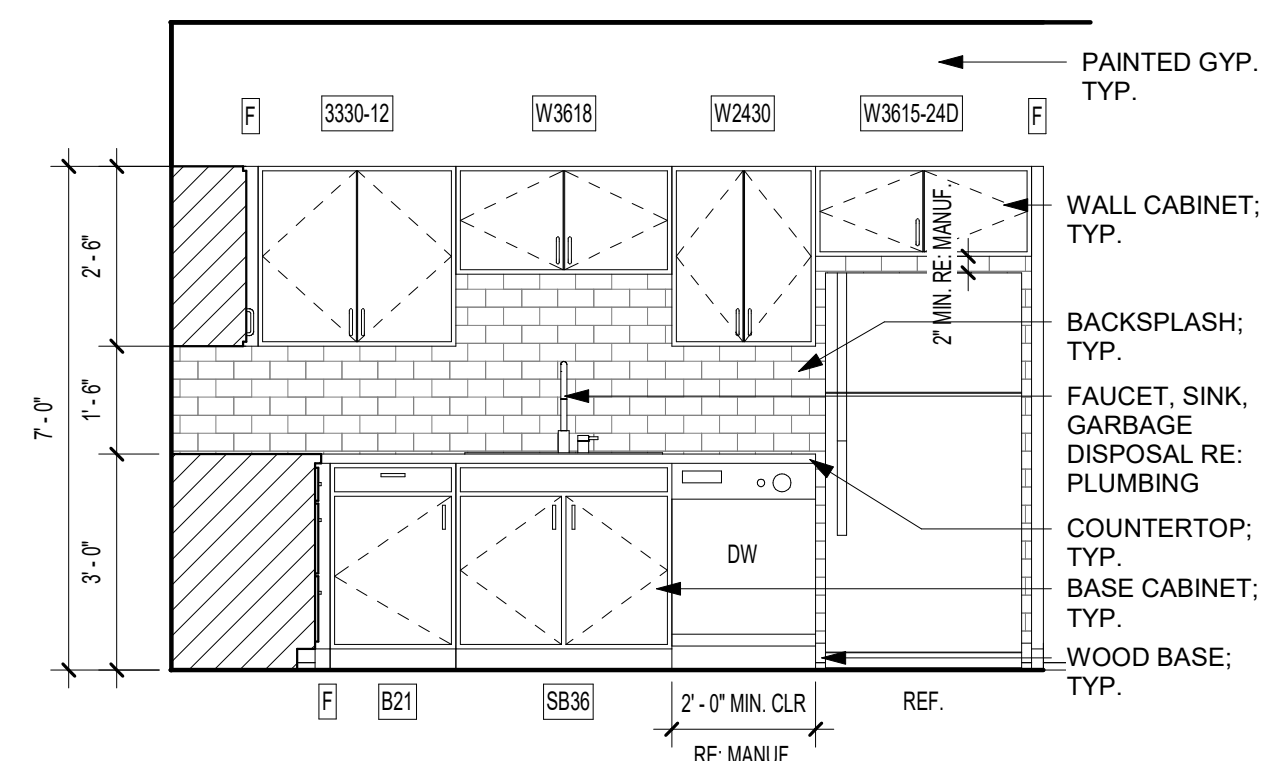
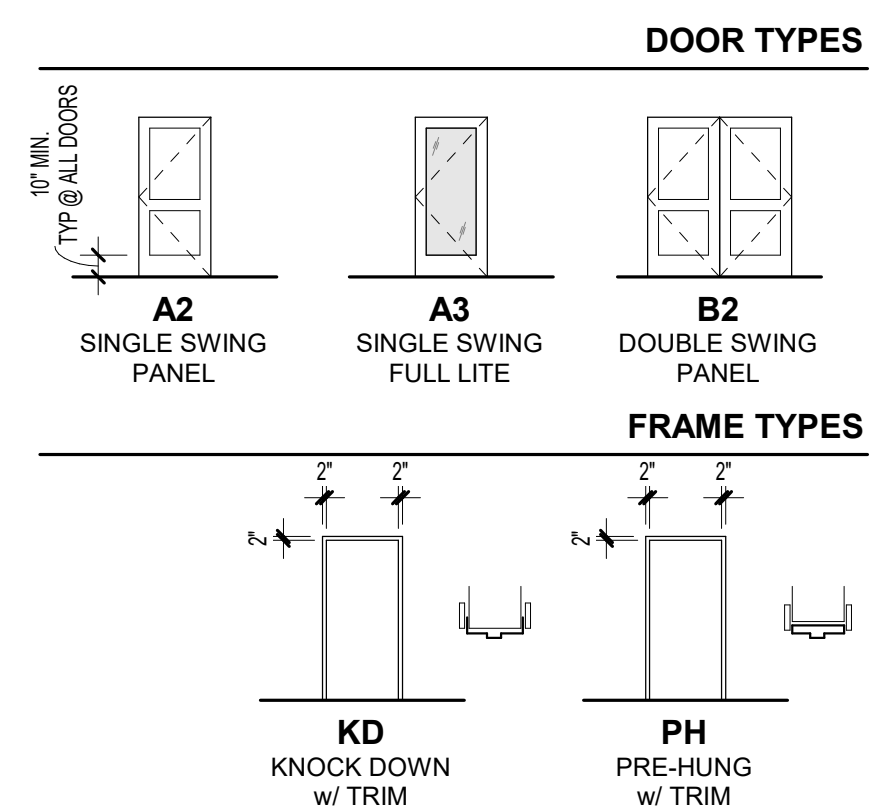
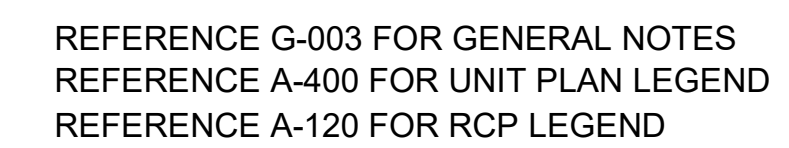
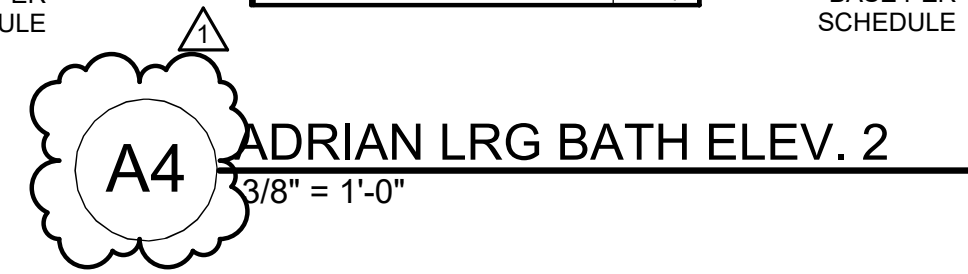
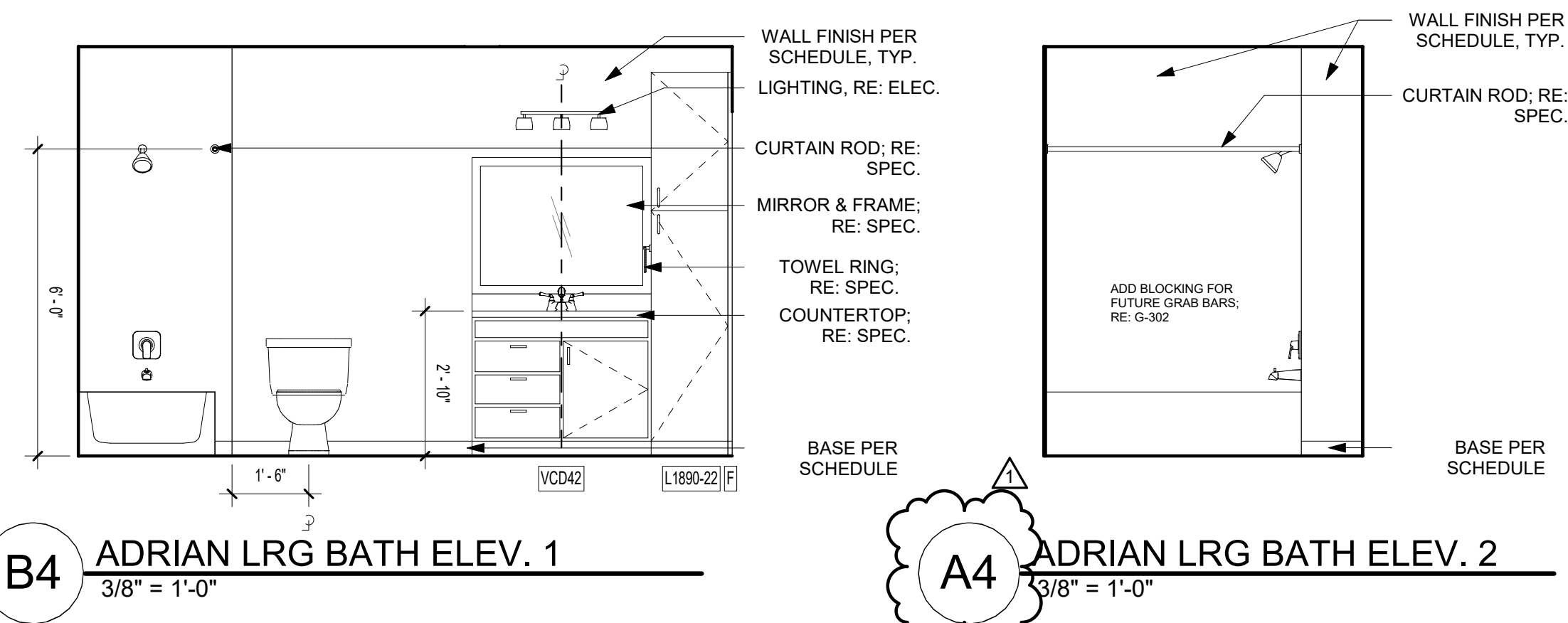
LEE'S SUMMIT, MO

SHEET TITLE
ENLARGED PLAN - 2ND FLOOR
ZONE A
PROJECT NUMBER: 24018
SHEET NUMBER:

A-112

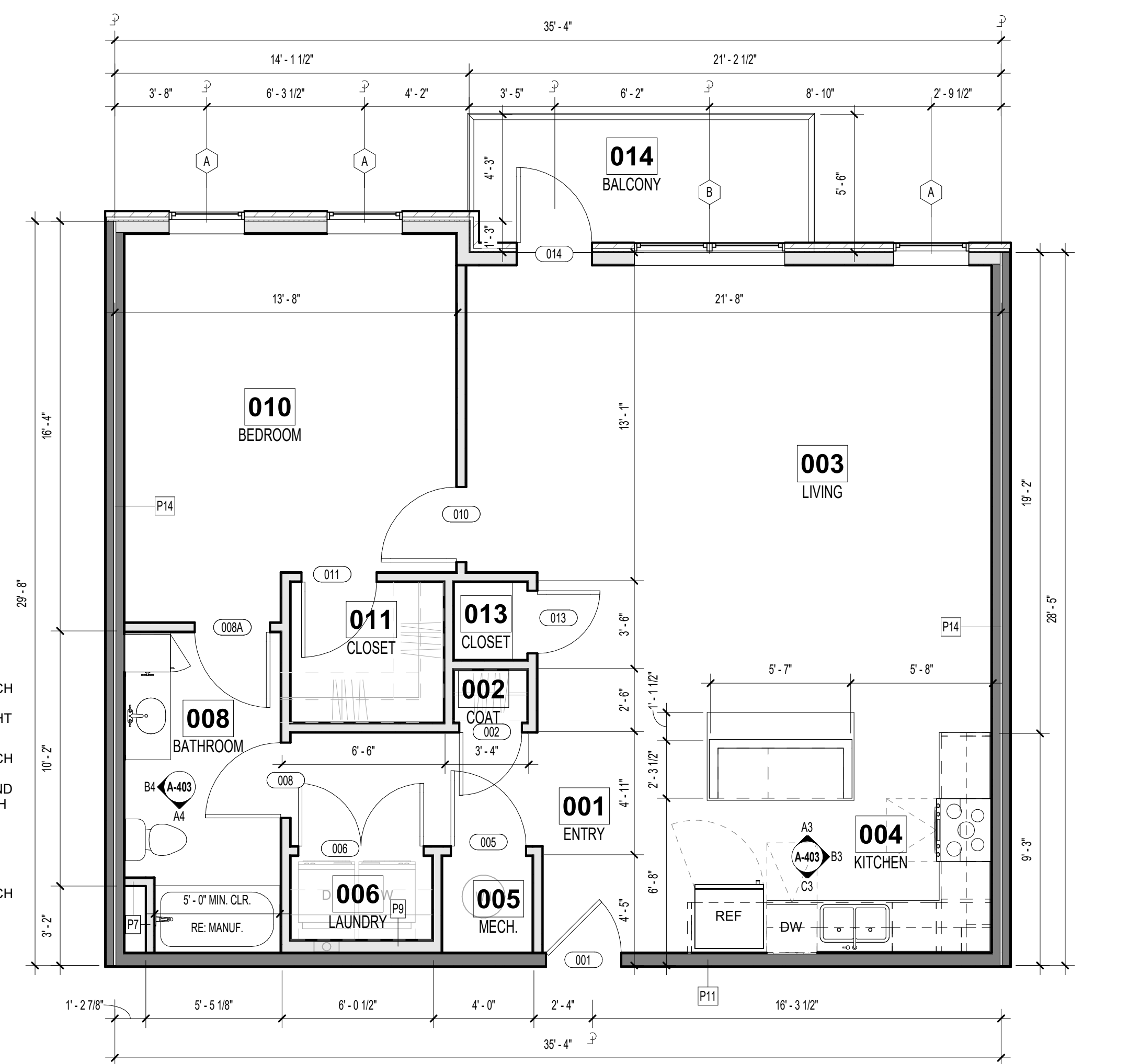
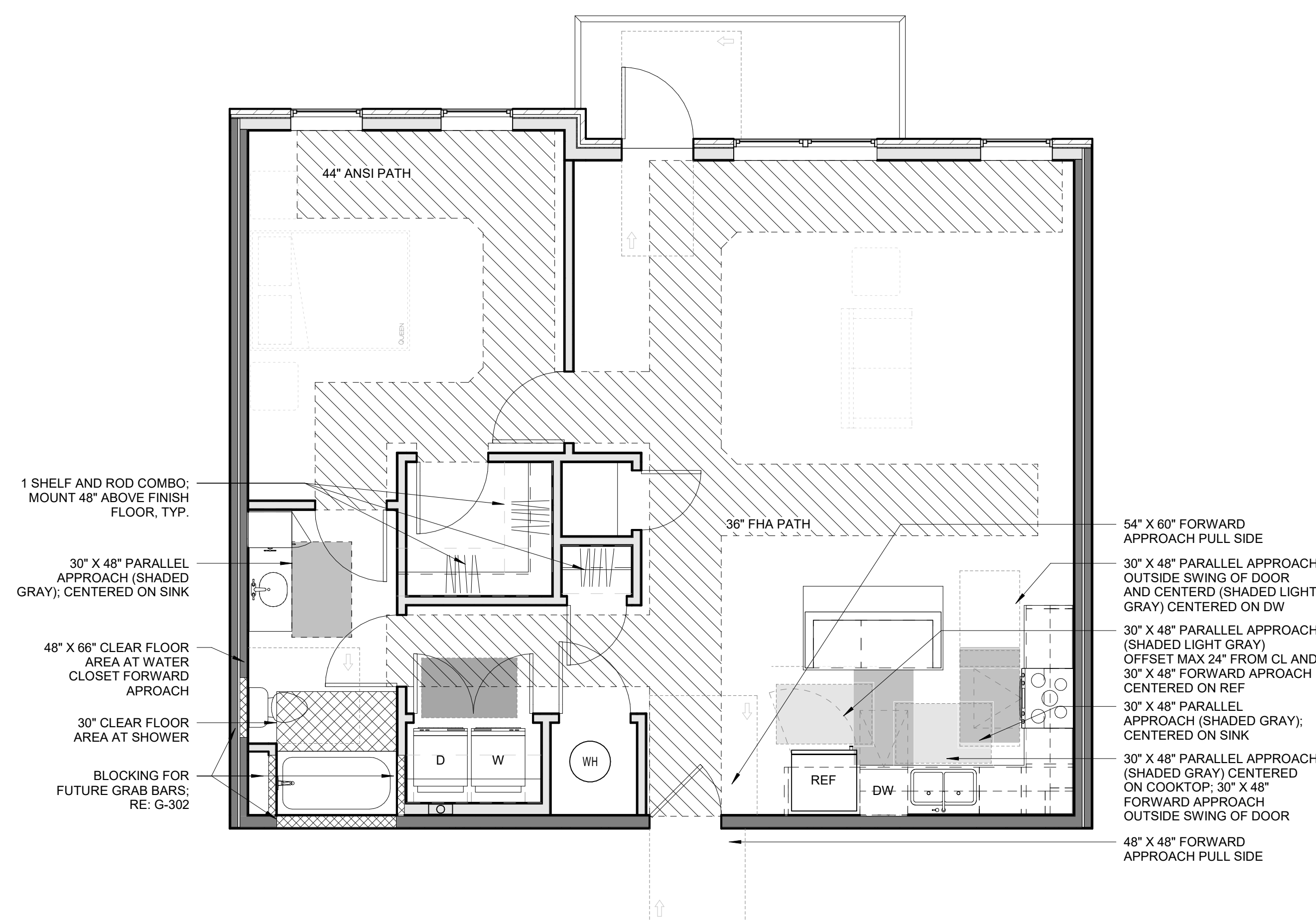
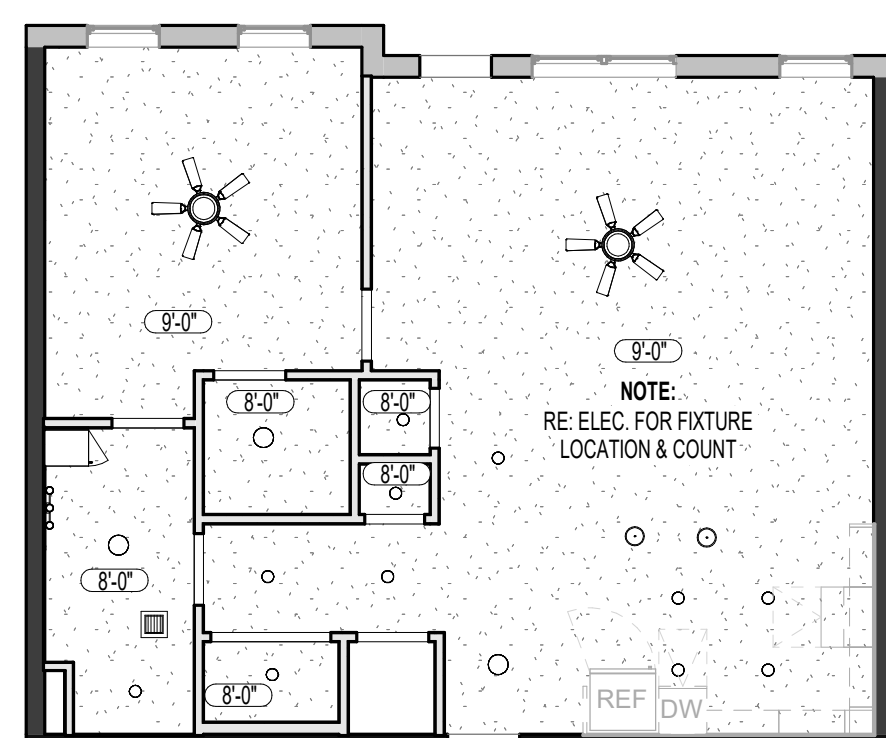
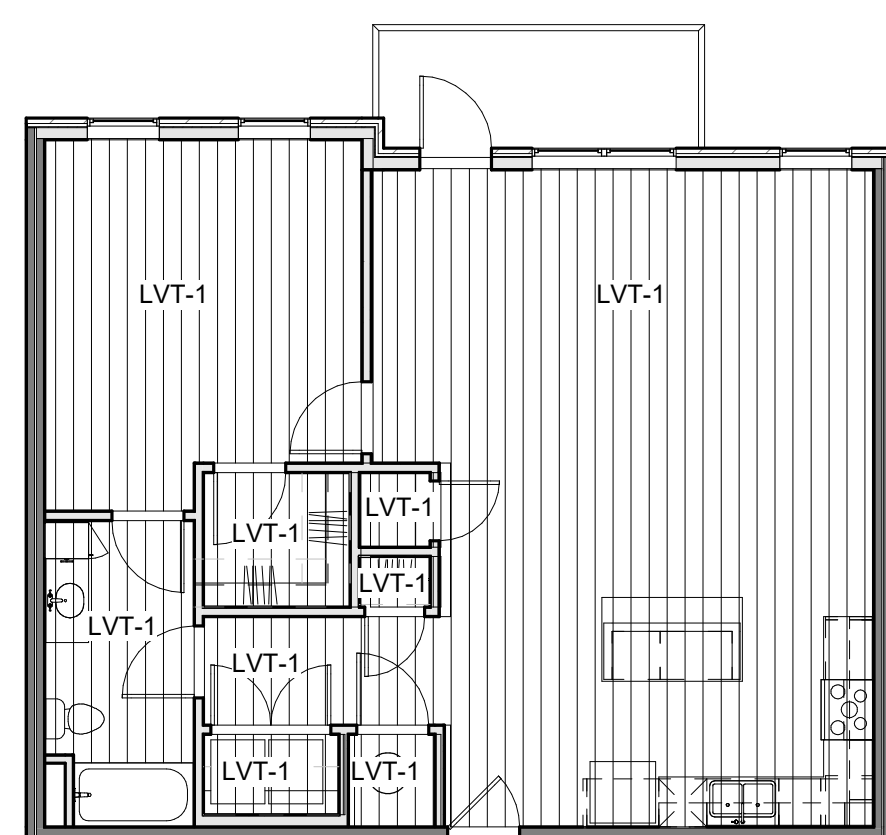
A1 2ND FLOOR ENLARGED PLAN - ZONE A
1/8" = 1'-0"

1/22/2025 1:29:42 PM
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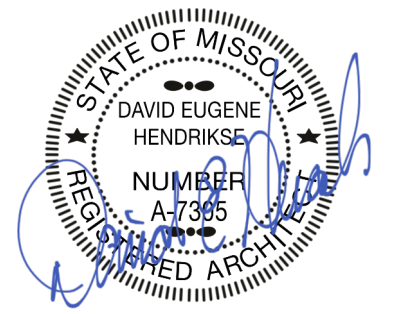
DOOR SCHEDULE - UNIT DOORS (BY UNIT TYPE)								
Mark	Width	Height	Thickness	Fire Rating (Minutes)	Door Type	Frame Type	Hardware Group	Comments
001	3'-0"	6'-8"	1 3/4"	20 MIN.	A2	KD	U1	
002	2'-6"	6'-8"	1 3/4"		A2	PH	U2	
005	3'-0"	6'-8"	1 3/4"		A2	PH	U2	UNDERCUT IF REQ'D
006	5'-0"	6'-8"	1 3/4"		B2	PH	U3	UNDERCUT IF REQ'D
008	3'-0"	6'-8"	1 3/4"	A2	PH	U4		
008A	3'-0"	6'-8"	1 3/4"	A2	PH	U4		
010	3'-0"	6'-8"	1 3/4"	A2	PH	U4		
011	3'-0"	6'-8"	1 3/4"	A2	PH	U2		
013	2'-6"	6'-8"	1 3/4"	A2	PH	U6		
014	3'-0"	8'-0"	1 3/4"	A3	ALLUM	U5		

ROOM FINISH SCHEDULE - UNITS						
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
001	ENTRY	LVT1	WD, PT3	PT1	PT4	
002	COAT	LVT1	WD, PT3	PT2	PT4	
003	LIVING	LVT1	WD, PT3	PT1	PT4	
004	KITCHEN	LVT1	WD, PT3	PT1	PT4	
005	MECH.	LVT1	-	PT2		
006	LAUNDRY	LVT1	WD, PT3	PT2	PT4	
008	BATHROOM	LVT1	WD, PT3	PT2	PT4	
010	BEDROOM	LVT1	WD, PT3	PT1	PT4	
011	CLOSET	LVT1	WD, PT3	PT2	PT4	
013	CLOSET	LVT1	WD, PT3	PT2	PT4	
014	BALCONY	CONCRETE				



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01/22/25

DISCOVERY PARK - LOT #10-B

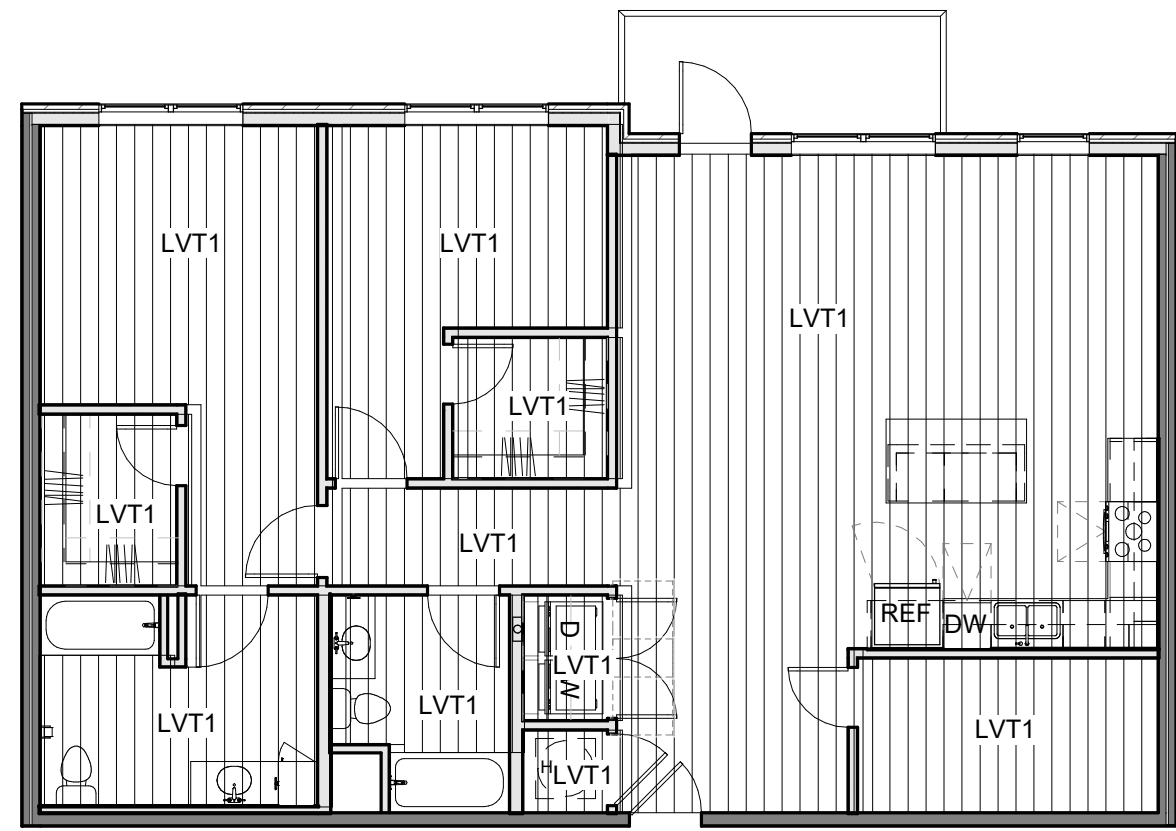
LEE'S SUMMIT, MO

SHEET TITLE
ADRIAN LRG (1 BR) - TYPE B

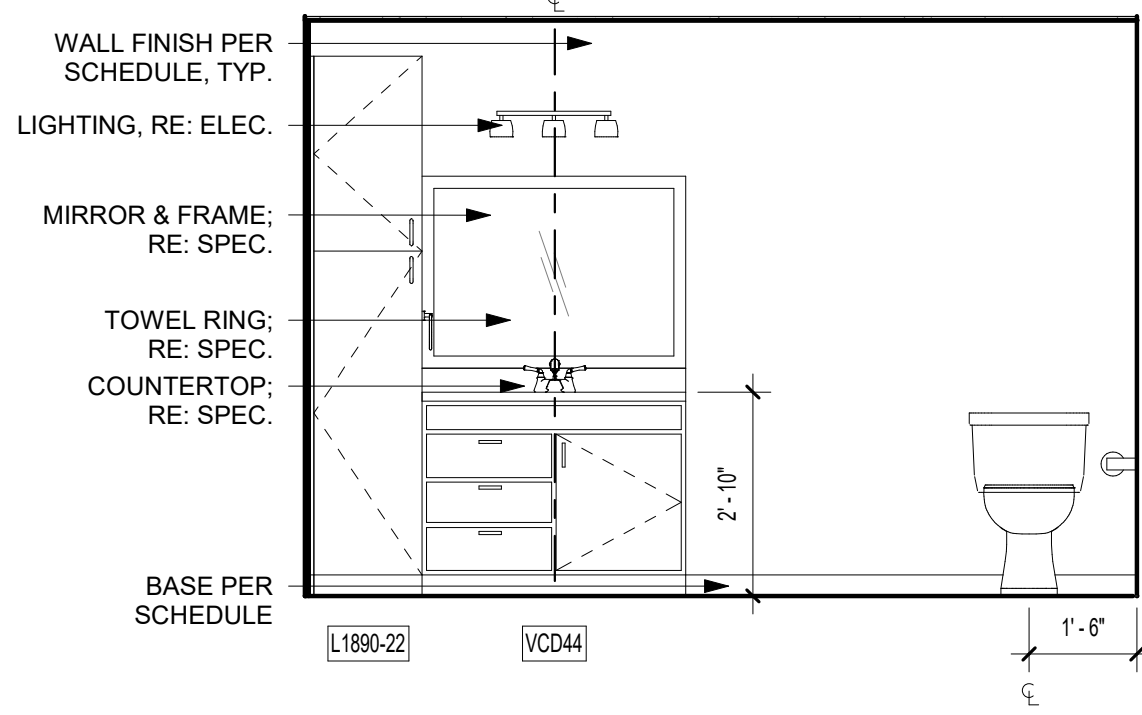
PROJECT NUMBER: 24018

SHEET NUMBER:

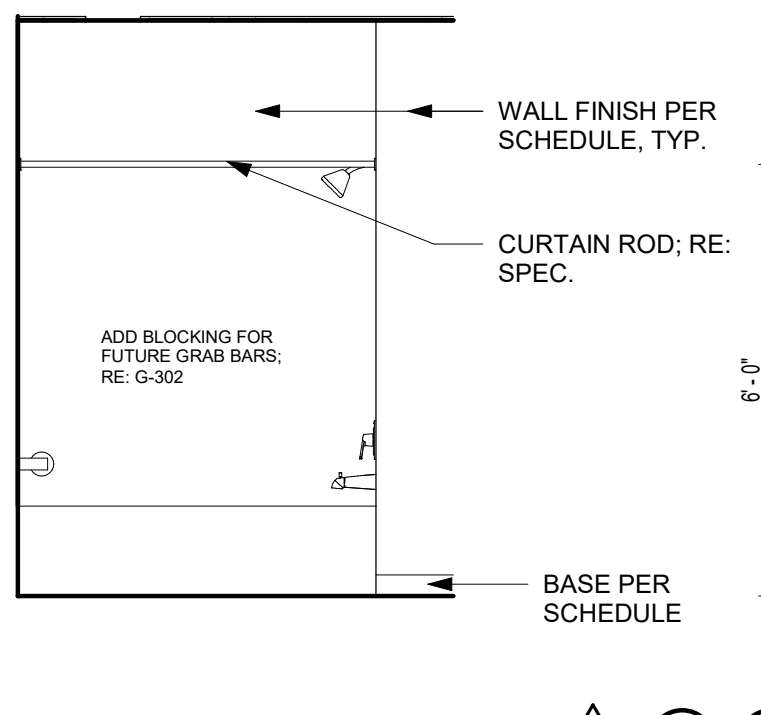
A-403



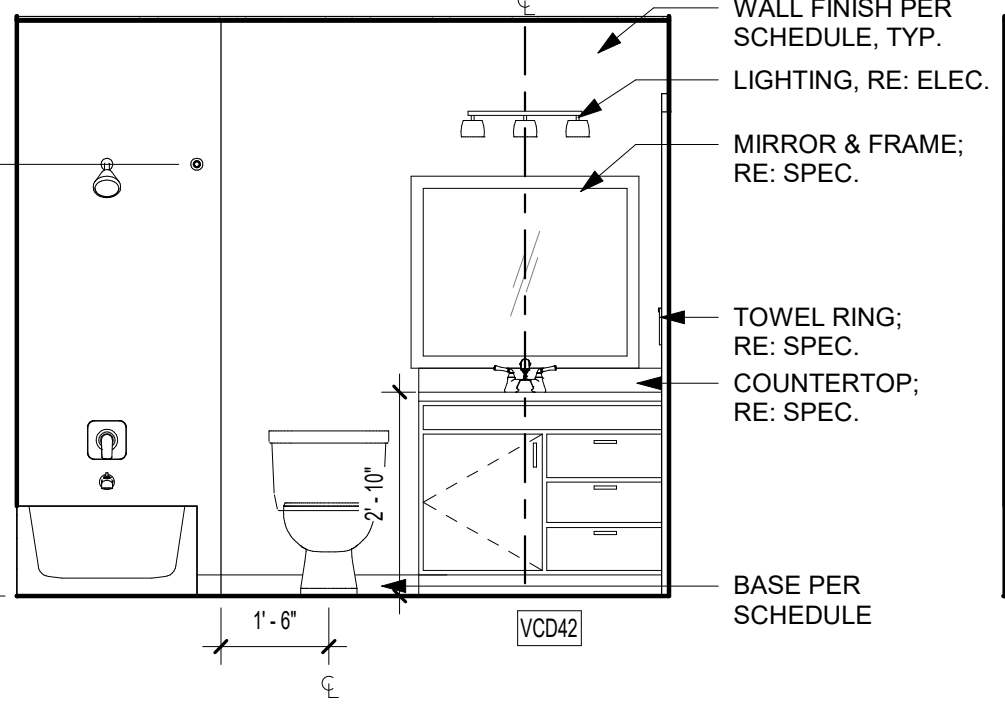
E3 UNIT FINISH PLAN - HURLEY (2 BR) - TYPE B
1/8" = 1'-0"



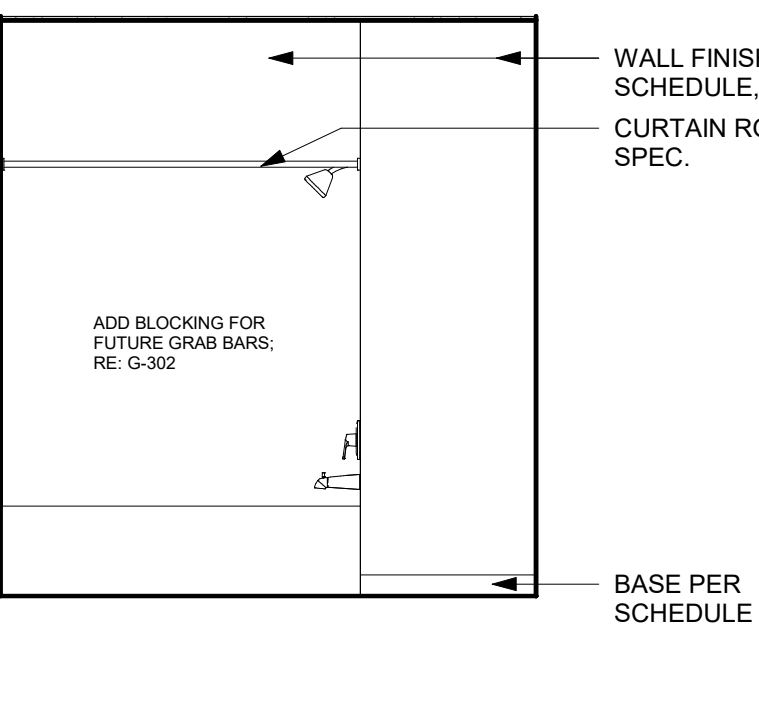
D3 HURLEY BATH 2 ELEV. 1
3/8" = 1'-0"



C3 HURLEY BATH 2 ELEV. 2
3/8" = 1'-0"

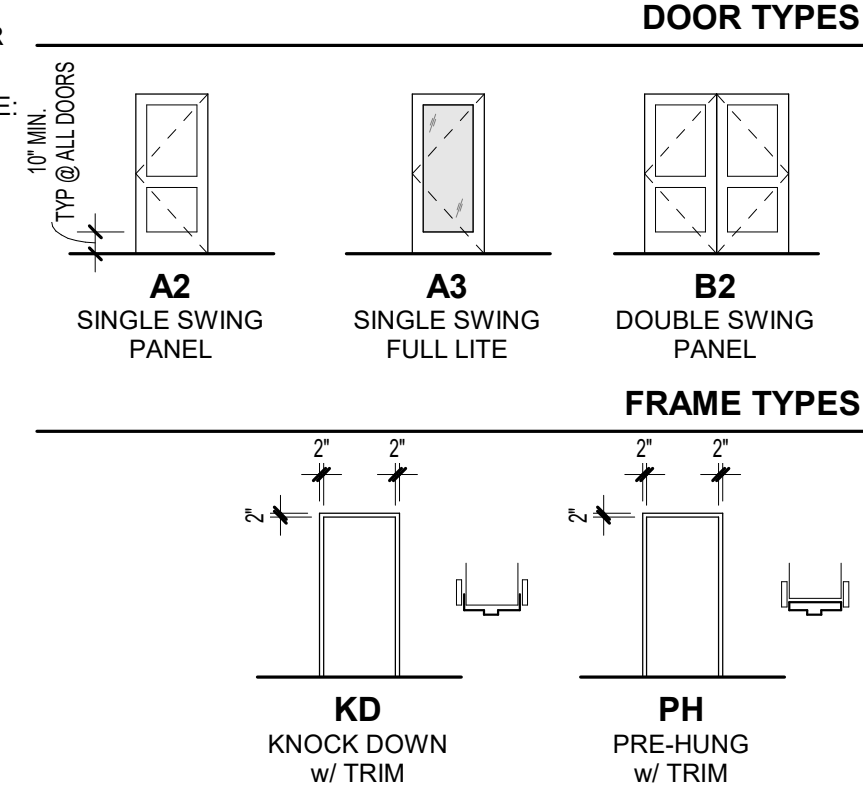


B3 HURLEY BATH 1 ELEV. 1
3/8" = 1'-0"

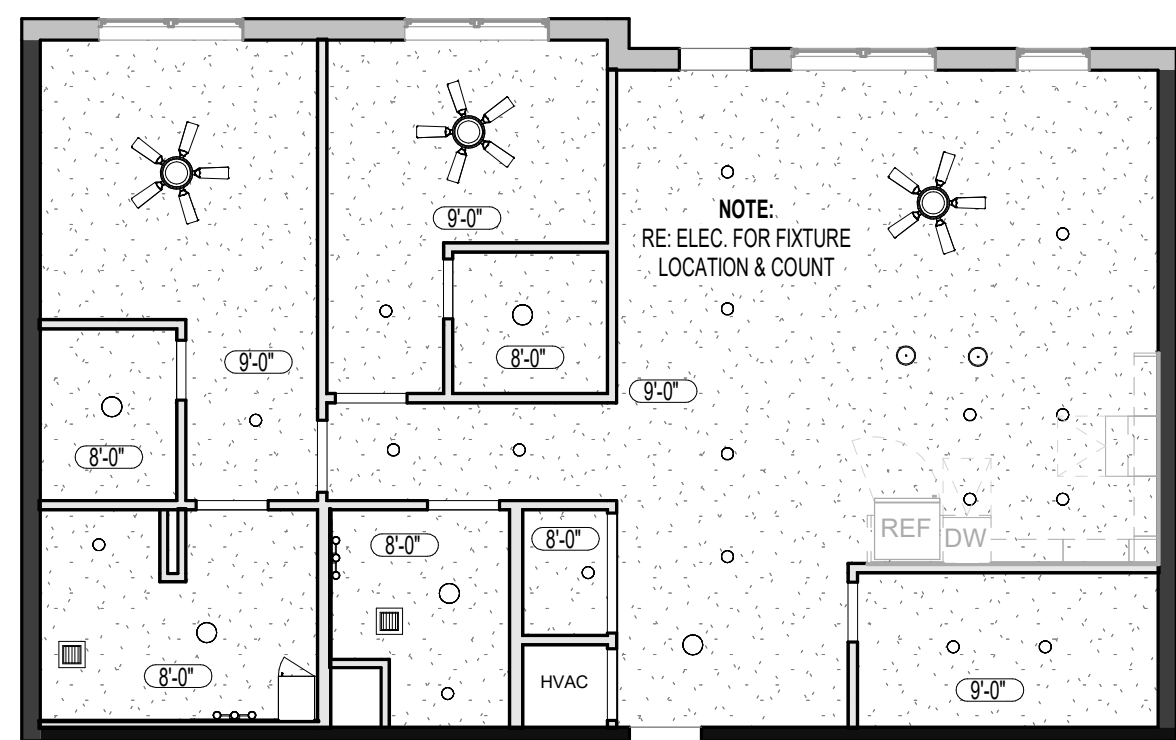


A3 HURLEY BATH 1 ELEV. 2
3/8" = 1'-0"

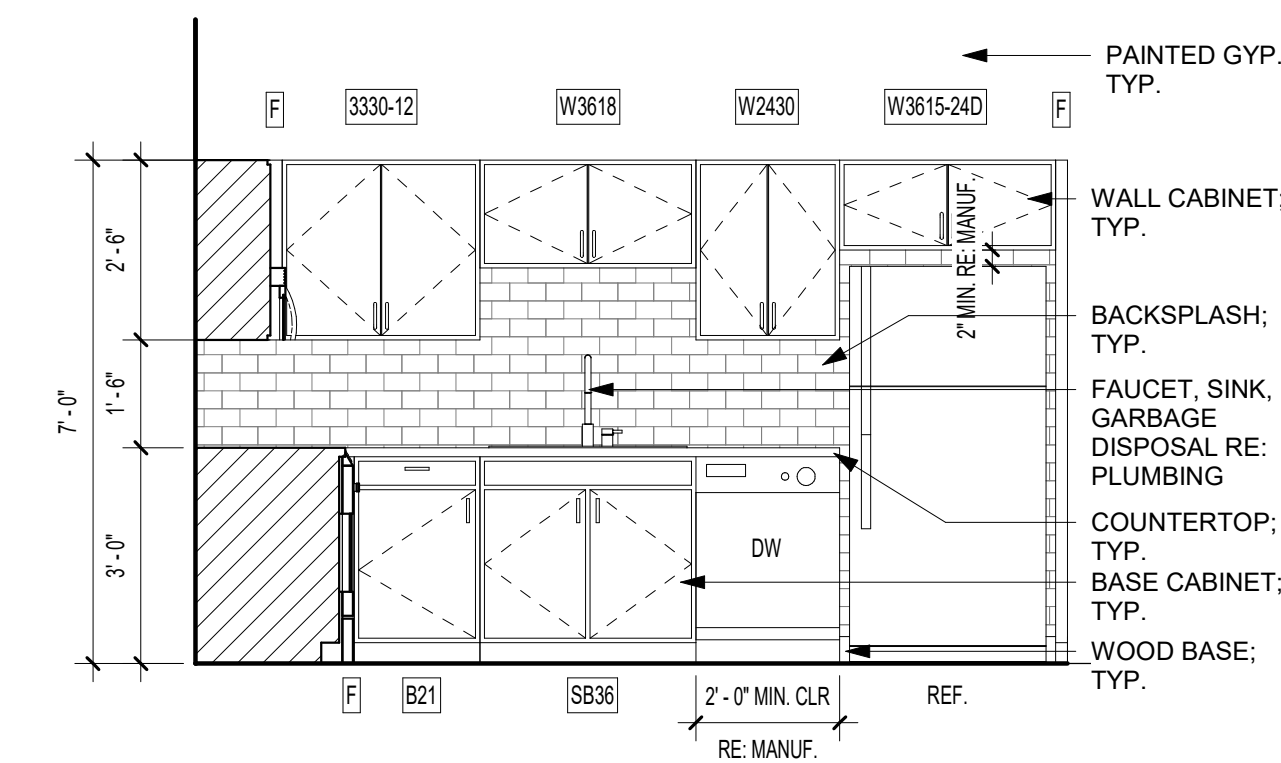
REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-400 FOR UNIT PLAN LEGEND
REFERENCE A-120 FOR RCP LEGEND



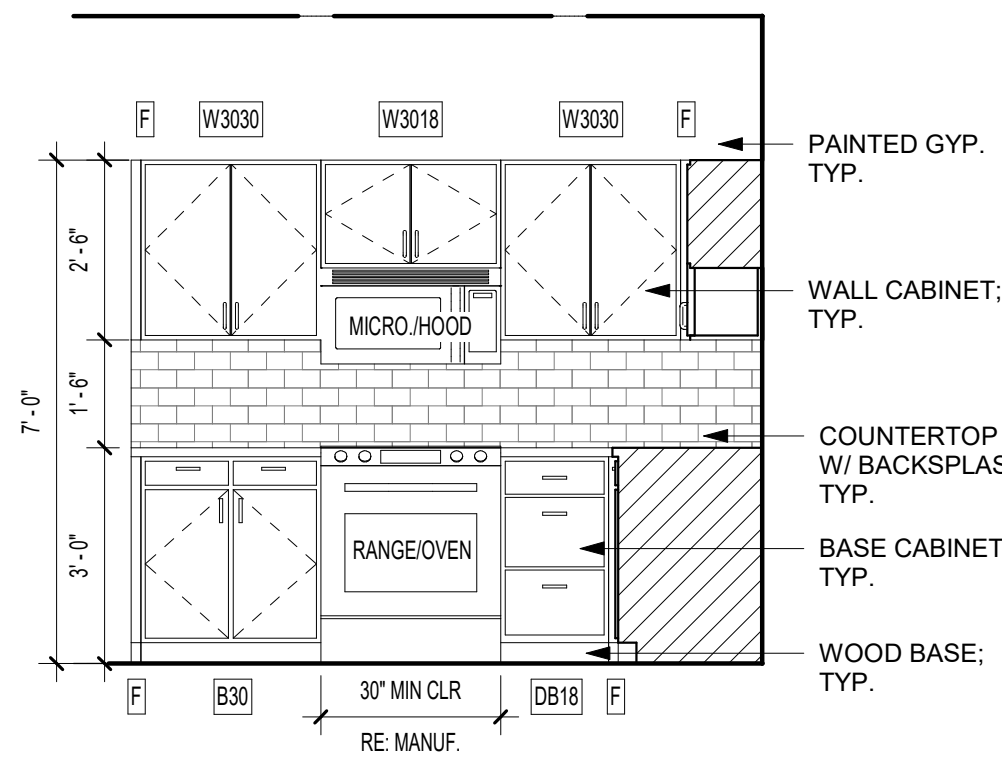
DOOR TYPES
FRAME TYPES



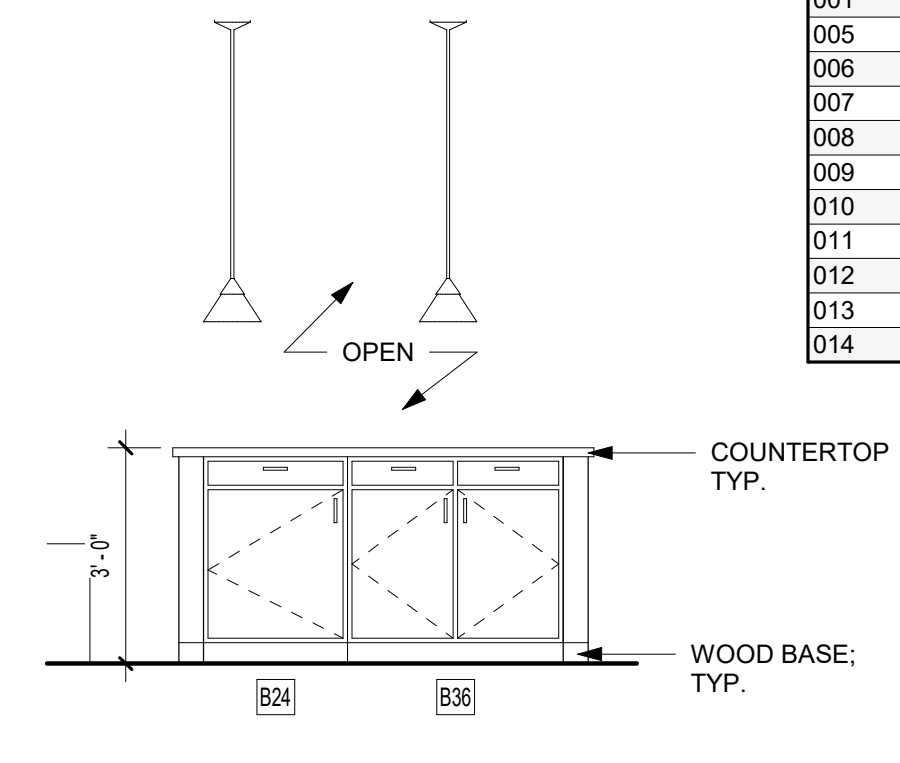
D2 UNIT RCP - HURLEY (2 BR) - TYPE B
1/8" = 1'-0"



C2 HURLEY KITCHEN ELEV. 1
3/8" = 1'-0"



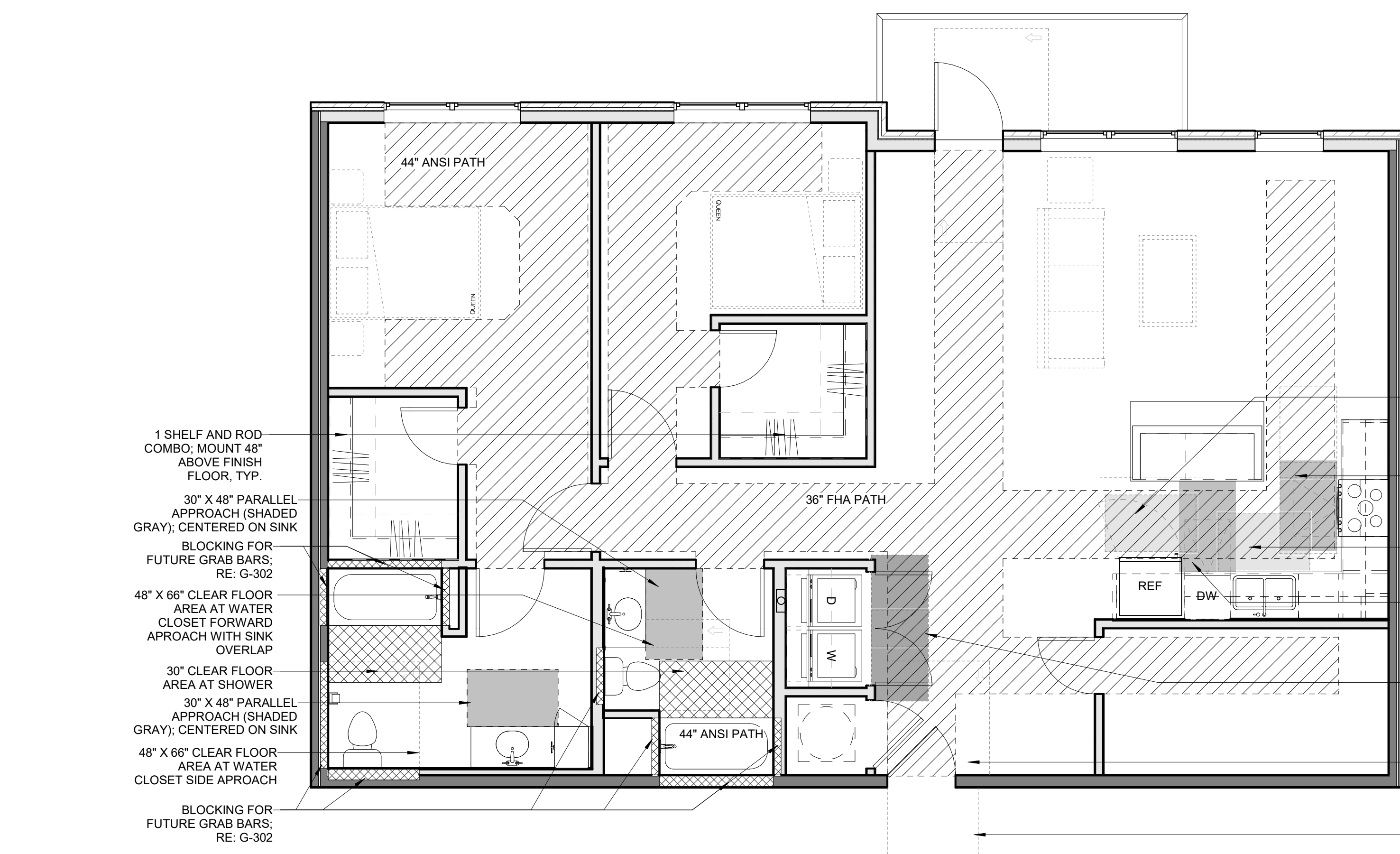
B2 HURLEY KITCHEN ELEV. 2
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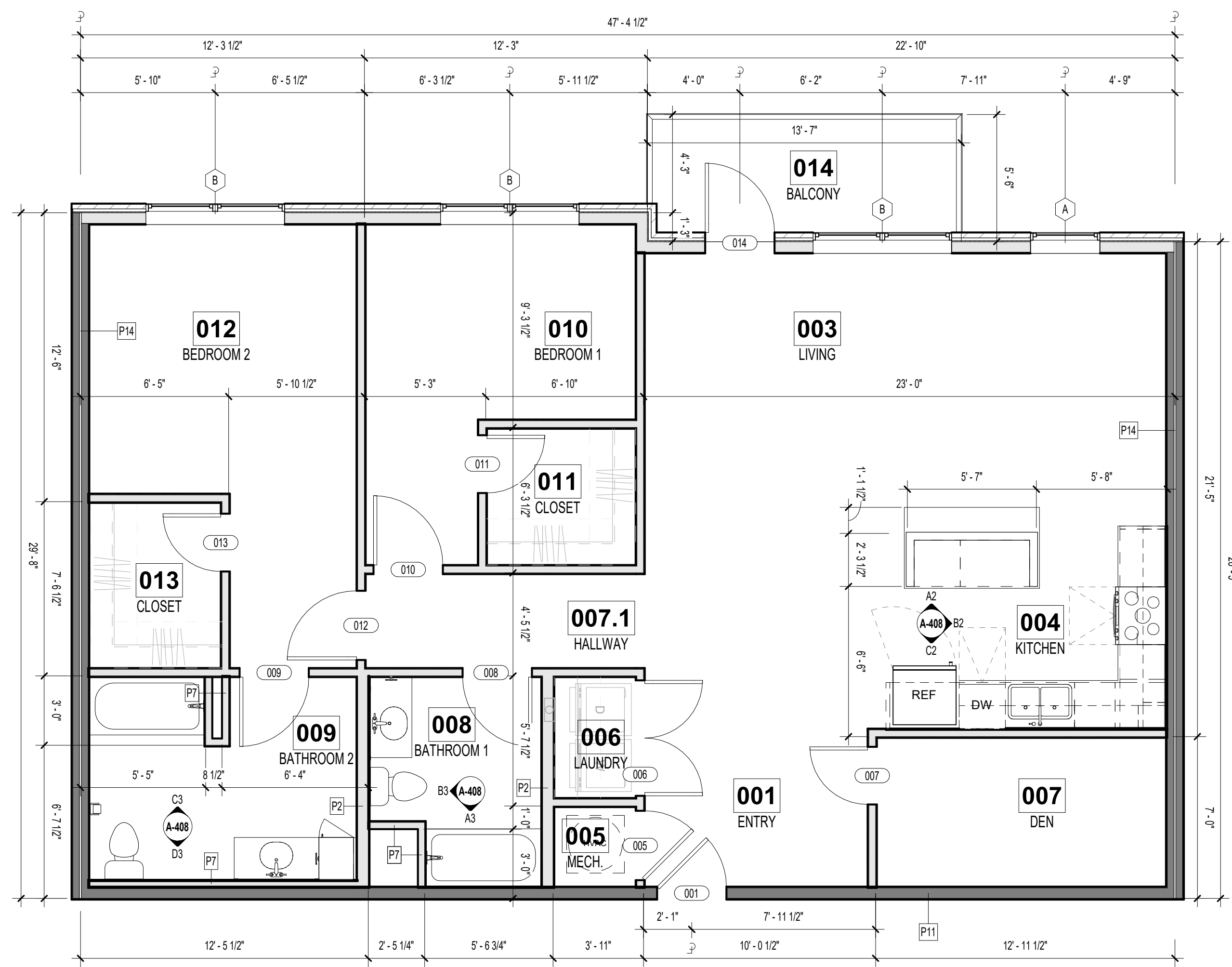
A2 HURLEY KITCHEN ELEV. 3
3/8" = 1'-0"

DOOR SCHEDULE - UNIT DOORS (BY UNIT TYPE)									
Mark	Width	Height	Thickness	Fire Rating (Minutes)	Door Type	Frame Type	Hardware Group	Comments	
001	3'-0"	6'-8"	1 3/4"	20 MIN.	A2	KD	U1		
005	3'-0"	6'-8"	1 3/4"		A2	PH	U6	UNDERCUT IF REQ'D	
006	5'-0"	6'-8"	1 3/4"		B2	PH	U3	UNDERCUT IF REQ'D	
007	2'-6"	6'-8"	1 3/4"		A2	PH	U4		
008	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
009	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
010	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
011	2'-6"	6'-8"	1 3/4"		A2	PH	U2		
012	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
013	2'-6"	6'-8"	1 3/4"		A2	PH	U2		
014	3'-0"	8'-0"	1 3/4"		A3	ALUM	U5		

ROOM FINISH SCHEDULE - UNITS					
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
001	ENTRY	LVT1	WB, PT3	PT1	PT4
003	LIVING	LVT1	WB, PT3	PT1	PT4
004	KITCHEN	LVT1	WB, PT3	PT1	PT4
005	MECH.	LVT1	--	PT2	--
006	LAUNDRY	LVT1	WB, PT3	PT2	PT4
007	DEN	LVT1	WB, PT3	PT2	PT4
007.1	HALLWAY	LVT1	WB, PT3	PT1	PT4
008	BATHROOM 1	LVT1	WB, PT3	PT2	PT4
009	BATHROOM 2	LVT1	WB, PT3	PT2	PT4
010	BEDROOM 1	LVT1	WB, PT3	PT1	PT4
011	CLOSET	LVT1	WB, PT3	PT2	PT4
012	BEDROOM 2	LVT1	WB, PT3	PT1	PT4
013	CLOSET	LVT1	WB, PT3	PT2	PT4
014	BALCONY	CONCRETE			



B1 UNIT CLEAR SPACE PLAN - HURLEY (2 BR) - TYPE B
1/4" = 1'-0"



A1 UNIT FLOOR PLAN - HURLEY (2 BR) - TYPE B
1/4" = 1'-0"

PRINTS ISSUED
11/27/2024 - CITY SUBMISSION

REVISIONS:
1 01/22/25 ADDENDUM #1

rosemann & ASSOCIATES P.C.
ARCHITECTURE
INTERIOR DESIGN
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PLANNING

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Kansas City, MO 64108-1404
p: 816.472.1448
w: www.rosemann.com
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STATE OF MISSOURI
DAVID EUGENE HENDRIKS
NUMBER A-7365
EXPIRATION DATE 12/31/2025
10/22/25

DISCOVERY PARK - LOT #10-B

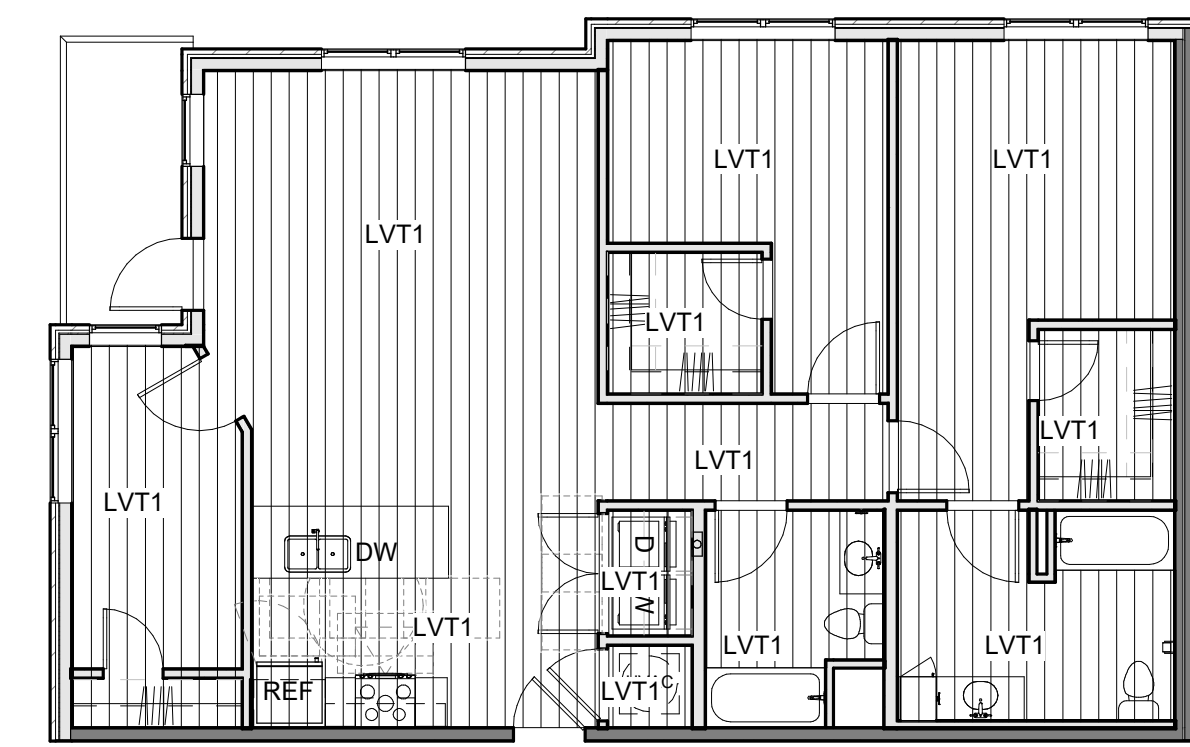
SHEET TITLE
HURLEY (2 BR) - TYPE B

PROJECT NUMBER: 24018

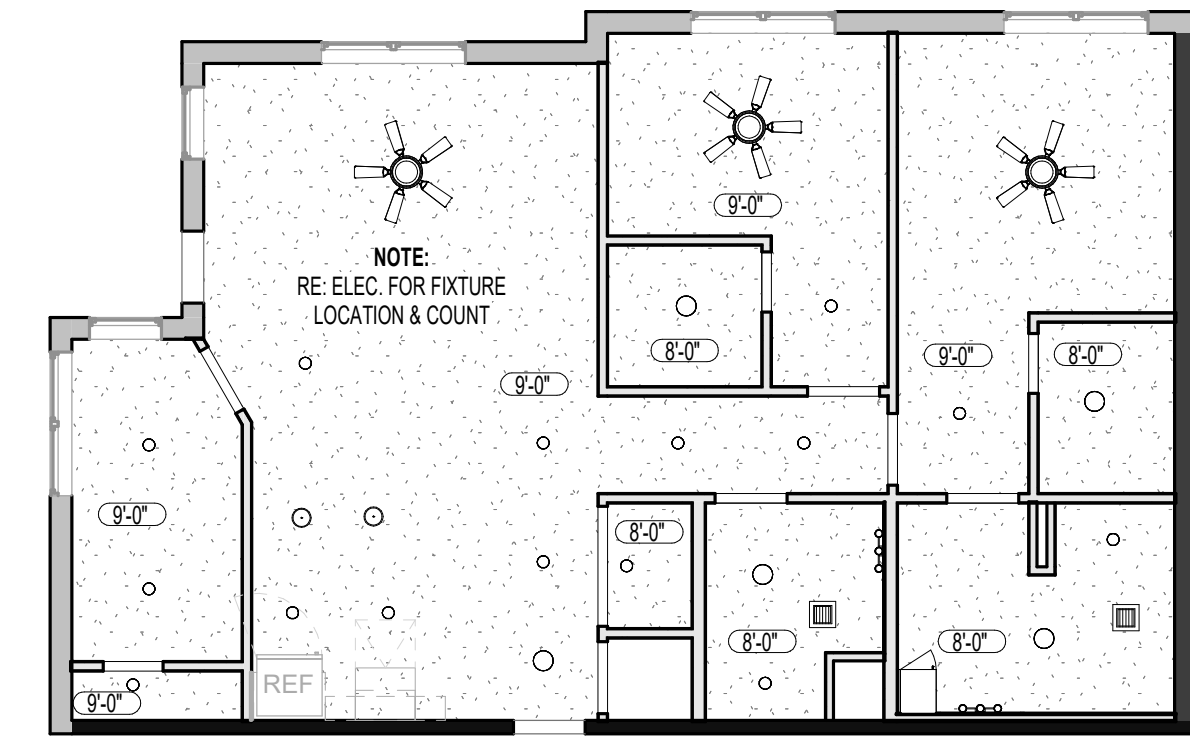
SHEET NUMBER:

LEE'S SUMMIT, MO

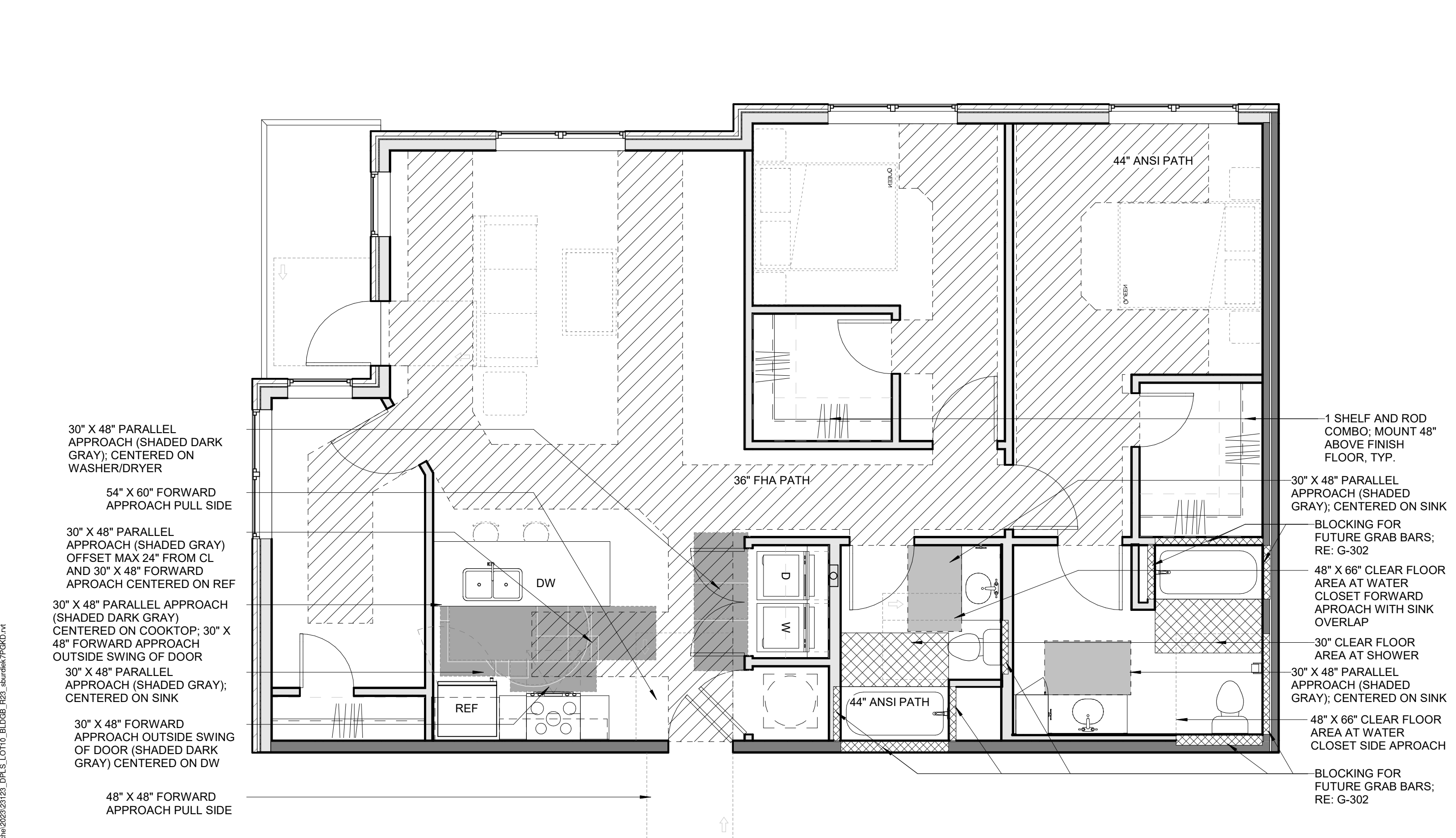
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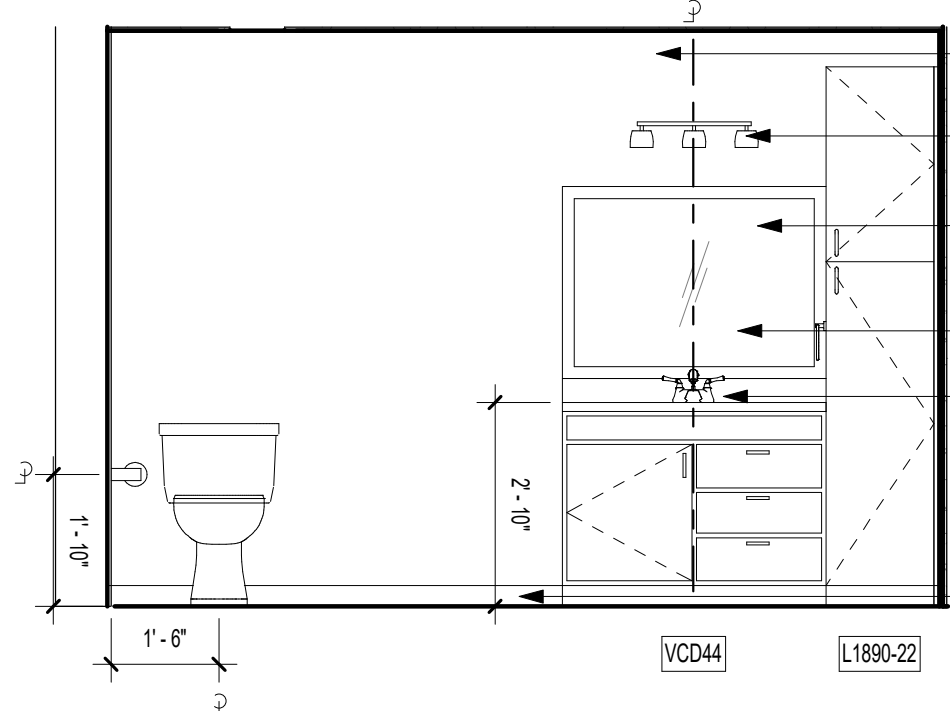
E3 UNIT FINISH PLAN - HURLEY CORNER (2 BR) - TYPE B
1/8" = 1'-0"



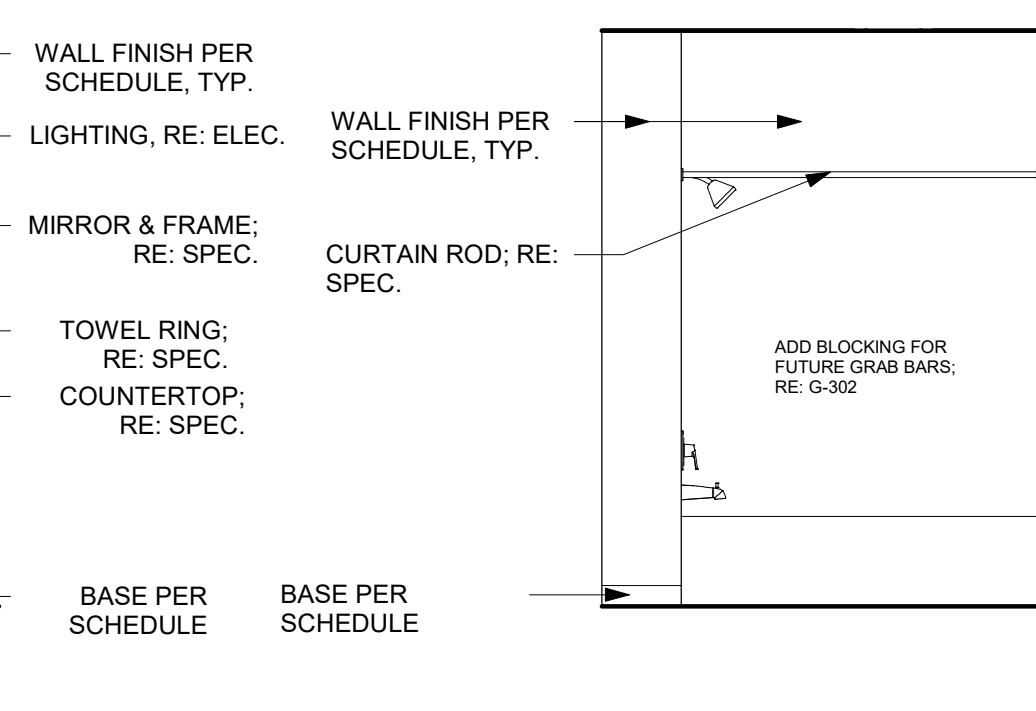
D2 UNIT RCP - HURLEY CORNER (2 BR) - TYPE B
1/8" = 1'-0"



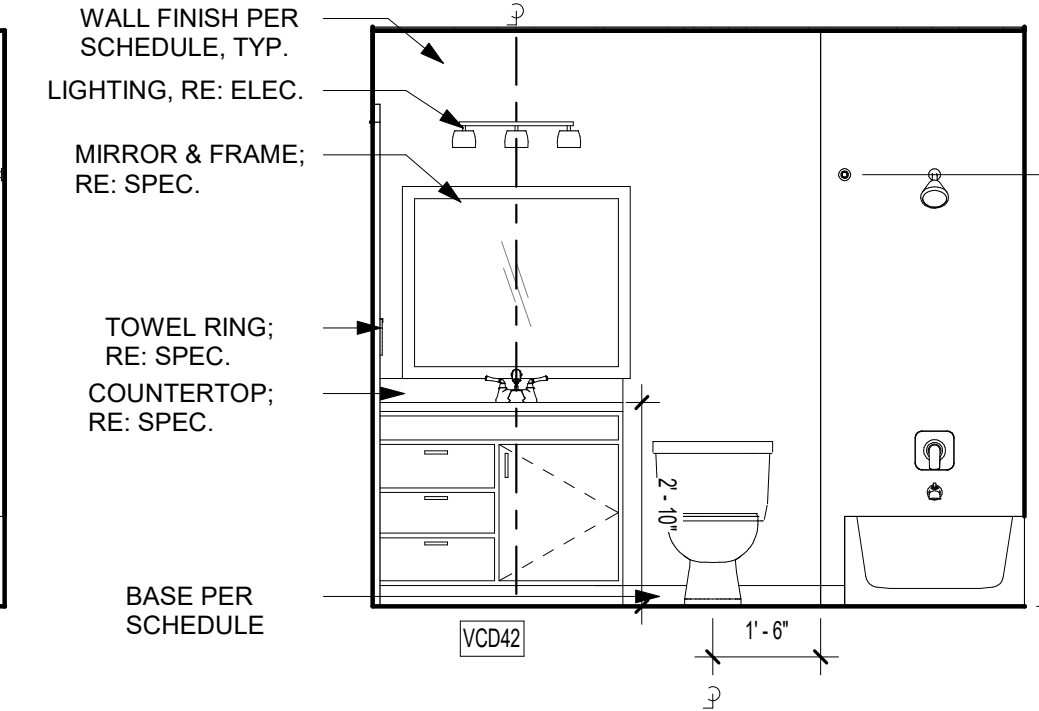
B1 UNIT CLEAR SPACE PLAN - HURLEY CORNER (2 BR) - TYPE B
1/4" = 1'-0"



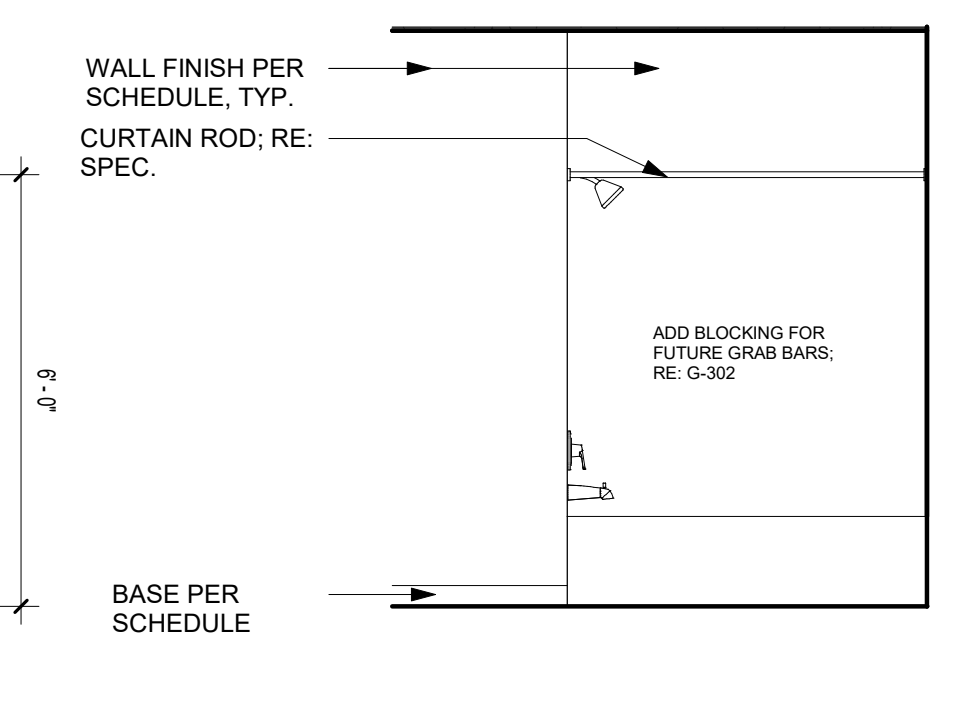
D3 HURLEY CORNER BATH 2 ELEV. 1
3/8" = 1'-0"



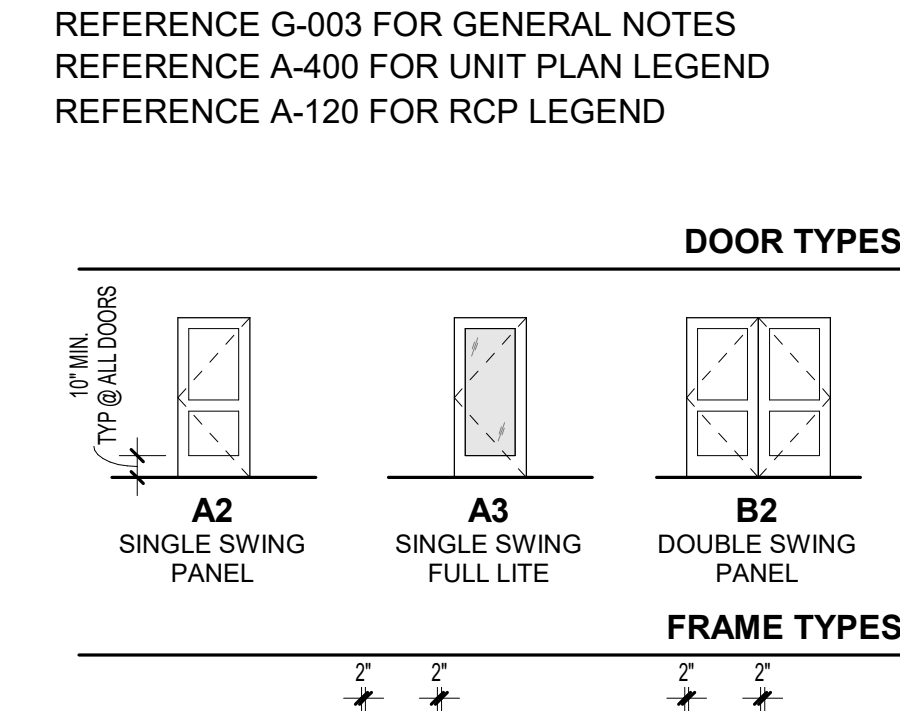
C3 HURLEY CORNER BATH 2 ELEV. 2
3/8" = 1'-0"



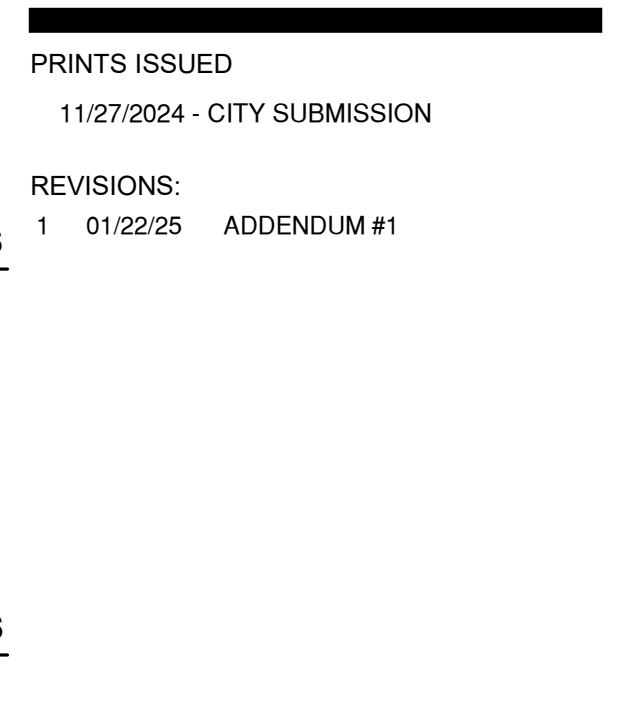
B3 HURLEY CORNER BATH 1 ELEV. 1
3/8" = 1'-0"



A3 HURLEY CORNER BATH 1 ELEV. 2
3/8" = 1'-0"



C2 HURLEY CORNER KITCHEN ELEV. 1
3/8" = 1'-0"

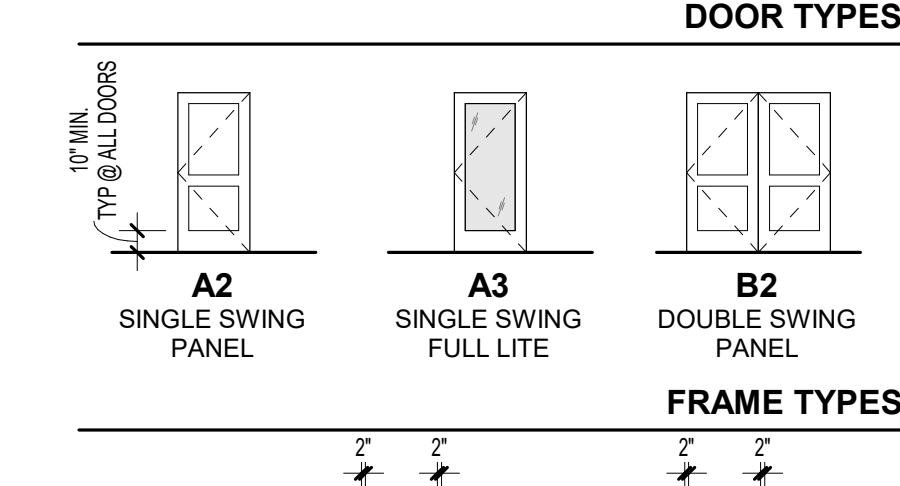


A2 HURLEY CORNER KITCHEN ELEV. 2
3/8" = 1'-0"

DOOR SCHEDULE - UNIT DOORS (BY UNIT TYPE)									
Mark	Width	Height	Thickness	Fire Rating (Minutes)	Door Type	Frame Type	Hardware Group	Comments	
001	3'-0"	6'-8"	1 3/4"	20 MIN.	A2	KD	U1		
005	3'-0"	6'-8"	1 3/4"		A2	PH	U6	UNDERCUT IF REQ'D	
006.1	5'-0"	6'-8"	1 3/4"		B2	PH	U3	UNDERCUT IF REQ'D	
007	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
007A	2'-6"	6'-8"	1 3/4"		A2	PH	U4		
008	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
009	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
010	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
011	2'-6"	6'-8"	1 3/4"		A2	PH	U2		
012	3'-0"	6'-8"	1 3/4"		A2	PH	U4		
013	2'-6"	6'-8"	1 3/4"		A2	PH	U2		
014	3'-0"	8'-0"	1 3/4"		A3	ALUM	U5		

ROOM FINISH SCHEDULE - UNITS						
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
001	ENTRY	LVT1	WB, PT3	PT1	PT4	
003	LIVING	LVT1	WB, PT3	PT1	PT4	
004	KITCHEN	LVT1	WB, PT3	PT1	PT4	
005	MECH.	LVT1	--	PT2	--	
006	LAUNDRY	LVT1	WB, PT3	PT2	PT4	
007	DEN	LVT1	WB, PT3	PT2	PT4	
007.1	HALLWAY	LVT1	WB, PT3	PT1	PT4	
007A	CL.	LVT1	WB, PT3	PT2	PT4	
008	BATHROOM 1	LVT1	WB, PT3	PT2	PT4	
009	BATHROOM 2	LVT1	WB, PT3	PT2	PT4	
010	BEDROOM 1	LVT1	WB, PT3	PT1	PT4	
011	CLOSET	LVT1	WB, PT3	PT2	PT4	
012	BEDROOM 2	LVT1	WB, PT3	PT1	PT4	
013	CLOSET	LVT1	WB, PT3	PT2	PT4	
014	BALCONY	CONCRETE				

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-400 FOR UNIT PLAN LEGEND
REFERENCE A-120 FOR RCP LEGEND



PRINTS ISSUED
11/27/2024 - CITY SUBMISSION

REVISIONS:
1 01/22/25 ADDENDUM #1

DOOR TYPES
A2 SINGLE SWING PANEL
A3 SINGLE SWING FULL LITE
B2 DOUBLE SWING PANEL

FRAME TYPES
KD KNOCK DOWN w/ TRIM
PH PRE-HUNG w/ TRIM

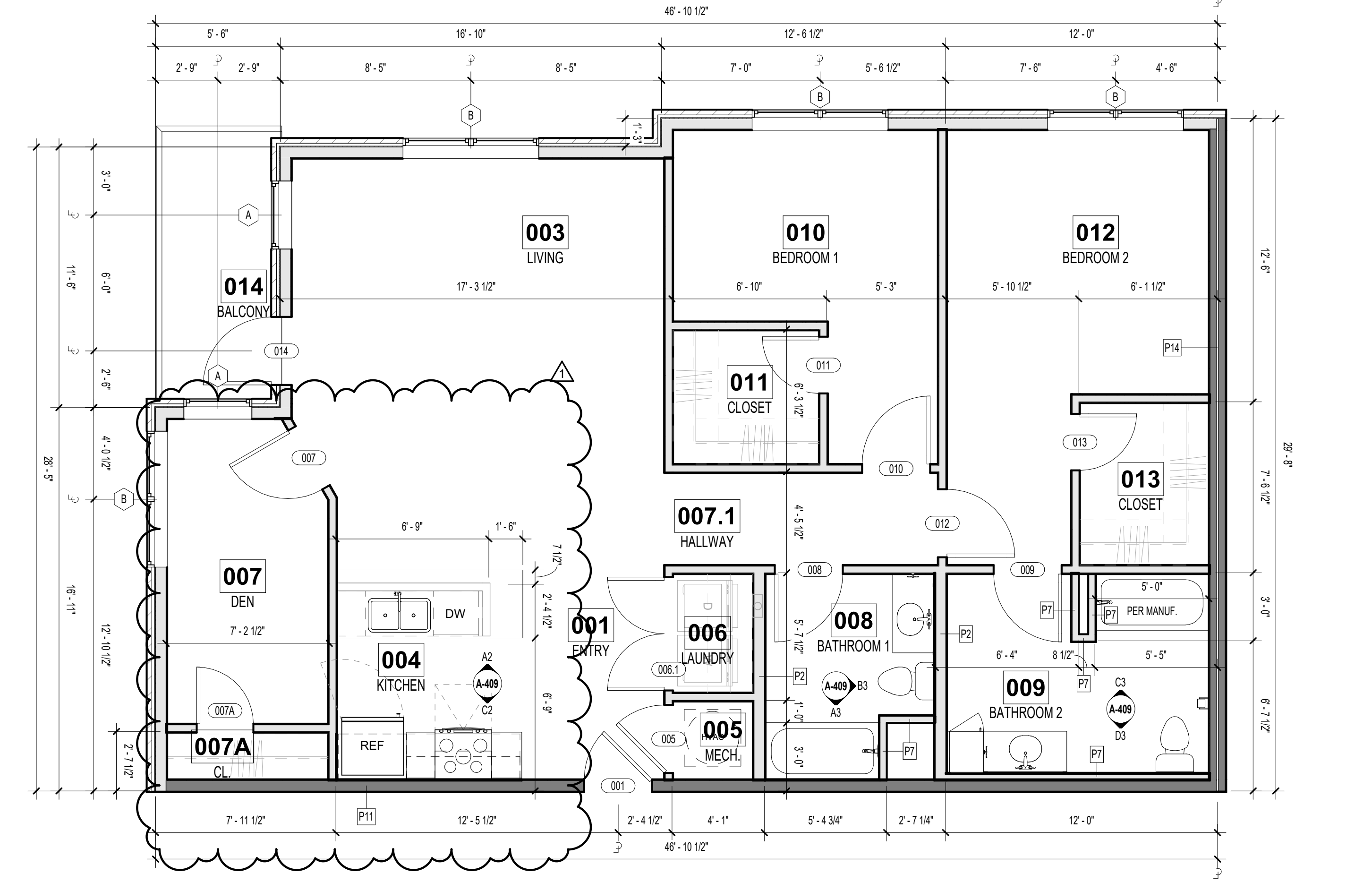
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STATE OF MISSOURI
DAVID EUGENE HENDRICKS
NUMBER A-7365
EXPIRED APRIL 2025

01/22/25



A1 UNIT FLOOR PLAN - HURLEY CORNER (2 BR) - TYPE B
1/4" = 1'-0"

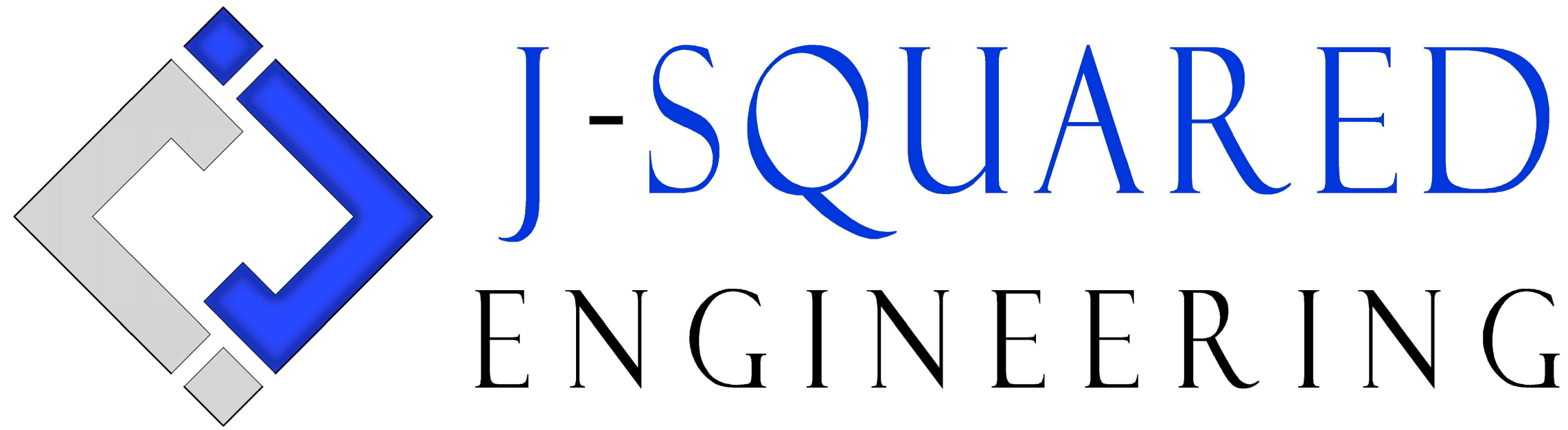
DISCOVERY PARK - LOT #10-B

LEE'S SUMMIT, MO

SHEET TITLE
CORNER HURLEY LS (2 BR) - TYPE B

PROJECT NUMBER: 24018

SHEET NUMBER:
A-409



MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Notheast Alura Way
Lee's Summit, Jackson County, MO 64064

GENERAL MEP SPECIFICATIONS

1.

GENERAL
- 1.1.

ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES. IT IS THE RESPONSIBILITY OF CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THEIR TRADE, REGARDLESS OF WHERE WORK IS DEPICTED IN PROJECT DRAWINGS OR SPECIFICATIONS.
- 1.2.

LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND SCHEMATIC IN NATURE. ALL SYSTEMS WILL NEED TO BE FIELD-COORDINATED. CONTRACTOR SHALL INCLUDE THIS COORDINATION IN THEIR SCOPE AND INCLUDE ALL COSTS OF MODIFYING LAYOUT AS REQUIRED IN THEIR BID. PLANS ARE NOT INTENDED TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED, FABRICATED, OR INSTALLED WITHOUT ADDITIONAL FIELD MEASUREMENTS AND COORDINATION.
- 1.3.

NOT ALL SPECIFIC PIECES AND COMPONENTS OF EACH SYSTEM ARE DETAILED OR OUTLINED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. CONTRACTOR IS TO PROVIDE AND INCLUDE ALL EQUIPMENT AND MATERIAL NEEDED TO COMPLETE WORK ASSOCIATED WITH THEIR BID UNLESS ANY ITEMS ARE SPECIFICALLY NOTED ON PLANS AS PROVIDED BY OTHERS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- 1.4.

WHERE CONFLICTS EXIST BETWEEN MEP PLANS AND CIVIL, ARCHITECTURAL, OR STRUCTURAL PLANS, NOTIFY MEP ENGINEER OF DISCREPANCIES FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK THAT MAY CONTRADICT INFORMATION ELSEWHERE IN THE PROJECT PLANS.
- 1.5.

THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSIONS, ARCHITECTURAL SHALL GOVERN.
- 1.6.

CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, TAPS, ETC. ASSOCIATED WITH THEIR WORK.
- 1.7.

CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE ON PLANS.
- 1.8.

SPECIFIC EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS LISTED ON PLANS ARE TO ESTABLISH A BASIS-OF-DESIGN FOR QUALITY AND PERFORMANCE. VERIFY THAT SUBSTITUTIONS WILL BE ACCEPTABLE PRIOR TO PURCHASE & INSTALLATION.
- 1.9.

NOTIFY ENGINEER OF ANY MAJOR PLAN DISCREPANCIES OR CONFLICTS PRIOR TO PROVIDING BIDS OR COMPLETING ANY WORK.
- 1.10.

SEE DISCIPLINE SHEETS FOR ADDITIONAL TRADE SPECIFIC SPECIFICATIONS.
- 1.11.

WHERE SHUTDOWN OF ANY EXISTING UTILITY OR SERVICE TO BUILDING IS REQUIRED FOR COMPLETION OF WORK, COORDINATE OUTAGE WITH OWNER AS TO NOT DISRUPT TYPICAL OPERATIONS.
- 1.12.
2.

WORKMANSHIP
- 2.1.

SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE METHODS AND PRACTICES.
- 2.2.

ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
- 2.3.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
- 2.4.

CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE COMPLETED PROJECT IS RELEASED TO THE OWNER, UNLESS NOTED OTHERWISE ON PLANS.
- 2.5.

DURING INSTALLATION OF MATERIALS OR ACTIVITIES IN NEW WORK SCOPE, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. ANY DAMAGE TO EXISTING SURFACES OR EQUIPMENT SHALL BE CORRECTED AT NO COST TO OWNER.

DEFERRED SUBMITTAL NOTES

1.

FIRE ALARM SYSTEM
- 1.1.

FIRE ALARM SYSTEM COMPONENTS SHOWN (IF APPLICABLE) ARE GENERAL AND SCHEMATIC IN NATURE, SHOWN FOR APPROXIMATE ROUGH-IN LOCATIONS AND QUANTITIES ONLY. CONTRACTOR TO VERIFY EXACT DEVICE LOCATIONS AND REQUIREMENTS WITH FIRE ALARM SYSTEM DESIGNER OF RECORD PRIOR TO ROUGH-IN.
- 1.2.

FIRE ALARM CONTRACTOR SHALL PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE ALARM SYSTEM. SUBMITTAL SHALL INCLUDE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, EQUIPMENT SPECIFICATIONS FOR DEVICES AND PANELS, ETC. DESIGN SHALL BE SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.
2.

FIRE SPRINKLER SYSTEM
- 2.1.

WHERE COMBINED FIRE & DOMESTIC WATER SUPPLY LINES ARE SHOWN ON PLANS, INSTALLING CONTRACTOR SHALL VERIFY WITH FIRE SPRINKLER CONTRACTOR THAT INCOMING LINE SIZE IS ADEQUATE FOR FIRE SUPPRESSION SYSTEM.
- 2.2.

FIRE SPRINKLER CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE SPRINKLER SYSTEM. SUBMITTAL SHALL INCLUDE HYDRAULIC CALCULATIONS AND SPRINKLER SYSTEM DRAWINGS SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.

REFERENCED CODES IN EFFECT

PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES LISTED BELOW, BUT THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND LOCAL REQUIREMENTS.

- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE

FIRE RATED PENETRATION NOTES

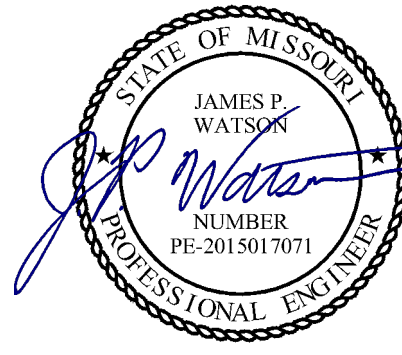
- THIS BUILDING CONTAINS FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND DETAILS.
- A UL-LISTED FIRESTOP SYSTEM SHALL BE INSTALLED AT EACH PENETRATION OF A HORIZONTAL OR VERTICAL RATED ASSEMBLY IN ACCORDANCE WITH ASTM E814 OR UL 1479.
- EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR THEIR PENETRATIONS THRU RATED ASSEMBLIES.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A CATALOG OF ALL UL LISTED FIRESTOP ASSEMBLIES, AND KEEPING A PHYSICAL COPY OF DETAILS FOR EACH USED FIRESTOP ASSEMBLY ON SITE FOR REFERENCE.

SHEET LIST TABLE

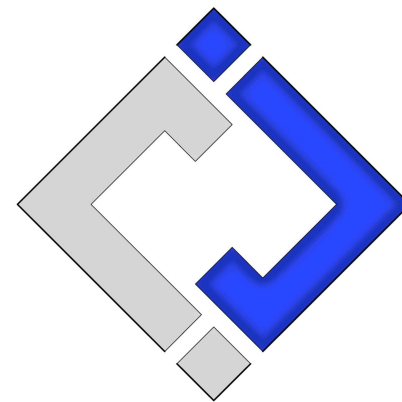
SHEET #	SHEET TITLE
MEP1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET
MEP2	SITE UTILITIES PLAN
MEP3	SITE LIGHTING PLAN
MEP4	MEP PLAN - ROOF
M101	HVAC PLAN - FIRST FLOOR - AREA A
M102	HVAC PLAN - SECOND FLOOR - AREA A
M103	HVAC PLAN - THIRD FLOOR - AREA A
M110	HVAC PLAN - GARAGE
M111	HVAC PLAN - FIRST FLOOR - AREA B
M112	HVAC PLAN - SECOND FLOOR - AREA B
M113	HVAC PLAN - THIRD FLOOR - AREA B
M501	HVAC DETAILS
M601	HVAC SCHEDULES
EP101	POWER PLAN - FIRST FLOOR - AREA A
EP102	POWER PLAN - SECOND FLOOR - AREA A
EP103	POWER PLAN - THIRD FLOOR - AREA A
EP110	POWER PLAN - GARAGE
EP111	POWER PLAN - FIRST FLOOR - AREA B
EP112	POWER PLAN - SECOND FLOOR - AREA B
EP113	POWER PLAN - THIRD FLOOR - AREA B
EL101	LIGHTING PLAN - FIRST FLOOR - AREA A
EL102	LIGHTING PLAN - SECOND FLOOR - AREA A
EL103	LIGHTING PLAN - THIRD FLOOR - AREA A
EL110	LIGHTING PLAN - GARAGE
EL111	LIGHTING PLAN - FIRST FLOOR - AREA B
EL112	LIGHTING PLAN - SECOND FLOOR - AREA B
EL113	LIGHTING PLAN - THIRD FLOOR - AREA B
EL201	EXTERIOR BUILDING MOUNTED LIGHTING PLAN
FP101	FIRE PROTECTION PLAN - GARAGE & FIRST FLOOR
FP102	FIRE PROTECTION PLAN - SECOND AND THIRD FLOOR
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES
PS101	SANITARY SEWER PLAN - FIRST FLOOR - AREA A
PS102	SANITARY SEWER PLAN - SECOND FLOOR - AREA A

SHEET LIST TABLE (CONTINUED)

SHEET #	SHEET TITLE
PS103	SANITARY SEWER PLAN - THIRD FLOOR - AREA A
PS110	SANITARY SEWER PLAN - GARAGE
PS111	SANITARY SEWER PLAN - FIRST FLOOR - AREA B
PS112	SANITARY SEWER PLAN - SECOND FLOOR - AREA B
PS113	SANITARY SEWER PLAN - THIRD FLOOR - AREA B
PS201	STORM DRAIN PLAN - GARAGE
PS202	STORM DRAIN PLAN - FIRST & SECOND FLOOR
PS203	STORM DRAIN PLAN - THIRD FLOOR & ROOF
PW101	DOMESTIC WATER PLAN - FIRST FLOOR - AREA A
PW102	DOMESTIC WATER PLAN - SECOND FLOOR - AREA A
PW103	DOMESTIC WATER PLAN - THIRD FLOOR - AREA A
PW110	DOMESTIC WATER PLAN - GARAGE
PW111	DOMESTIC WATER PLAN - FIRST FLOOR - AREA B
PW112	DOMESTIC WATER PLAN - SECOND FLOOR - AREA B
PW113	DOMESTIC WATER PLAN - THIRD FLOOR - AREA B
P501	PLUMBING DETAILS & SCHEDULES
UMEP1.1	MEP PLAN - ARA
UMEP1.2	MEP PLAN - ADRIAN
UMEP1.3	MEP PLAN - ADRIAN LARGE
UMEP1.4	MEP PLAN - DELMORE
UMEP1.5	MEP PLAN - HALI
UMEP2.1.1	HVAC & WATER PLAN - ABERDEEN TYPE A
UMEP2.1.2	POWER & LIGHTING PLAN - ABERDEEN TYPE A
UMEP2.2.1	HVAC & WATER PLAN - ABERDEEN TYPE B
UMEP2.2.2	POWER & LIGHTING PLAN - ABERDEEN TYPE B
UMEP2.3.1	HVAC & WATER PLAN - CONWAY III
UMEP2.3.2	POWER & LIGHTING PLAN - CONWAY III
UMEP2.4.1	HVAC & WATER PLAN - HURLEY LS CORNER
UMEP2.4.2	POWER & LIGHTING PLAN - HURLEY LS CORNER
UMEP2.5.1	HVAC & WATER PLAN - HURLEY LS
UMEP2.5.2	POWER & LIGHTING PLAN - HURLEY LS
UMEP2.6.1	HVAC & WATER PLAN - LANA
UMEP2.6.2	POWER & LIGHTING PLAN - LANA



James Watson, P.E. January 22, 2025
PE-2015017071
MO Certificate of Authority # 2018029680



J-SQUARED
ENGINEERING

2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

J2 PROJECT No: J21013.1

J2 DESIGN: ACW

ISSUE TITLE DATE

CITY SUBMITTAL 12 - 20 - 2024

ADDENDUM #1 01 - 22 - 2025

SHEET TITLE

MECHANICAL
ELECTRICAL
PLUMBING
COVER SHEET

SHEET NUMBER

MEP1

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Notheast Alura Way
Lee's Summit, Jackson County, MO 64064

SANITARY SEWER PLAN SYMBOL LEGEND

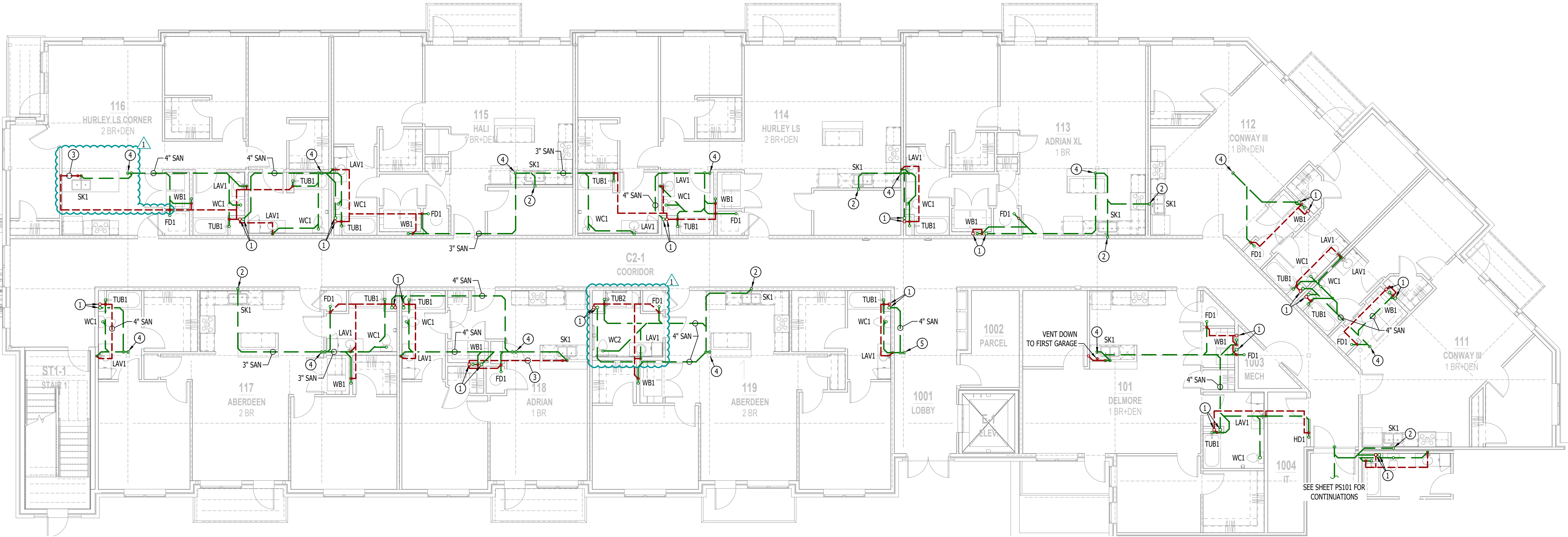
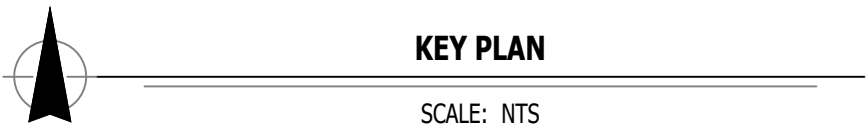
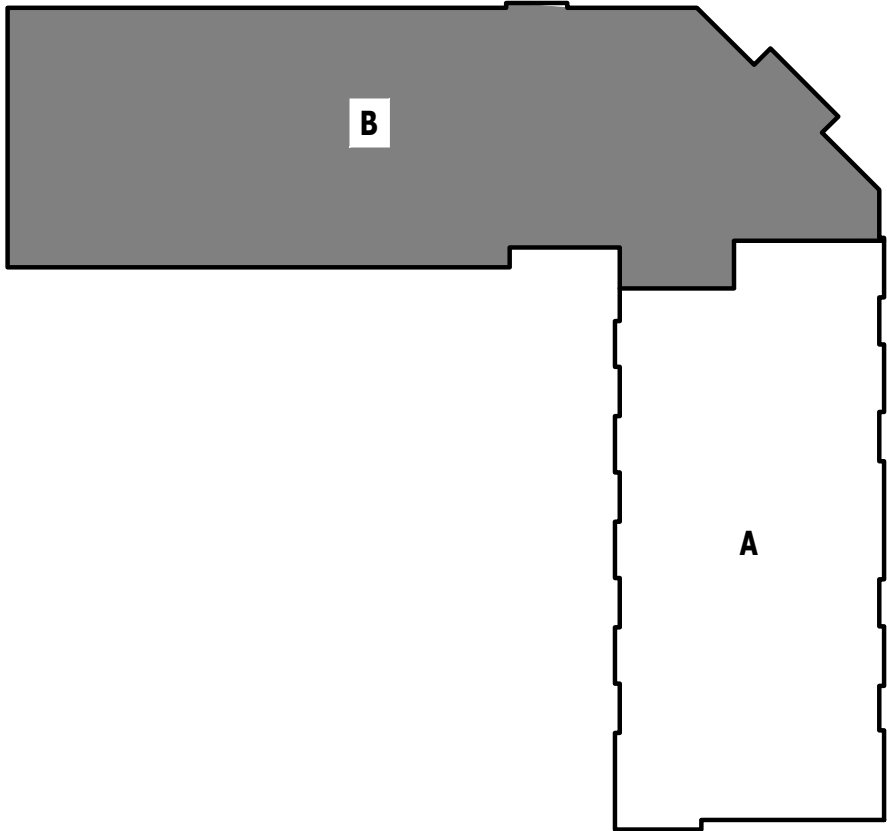
- SANITARY SEWER PIPING
- VENT PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

- REFER TO P500 AND/OR P600 SERIES SHEETS FOR ADDITIONAL PLUMBING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
- PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

SANITARY SEWER PLAN KEY NOTES:

- 3" SANITARY STACK DOWN FROM SECOND FLOOR; 3" VENT UP TO SECOND FLOOR.
- 3" WASTE STACK VENT DOWN FROM SECOND FLOOR.
- ISLAND SINK VENT BELOW FLOOR PER 2018 IPC SECTION 916.
- 4" SANITARY DOWN TO GARAGE LEVEL.



SANITARY SEWER PLAN - FIRST FLOOR - AREA B
SCALE: 1/8" = 1'-0"

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

SANITARY
SEWER PLAN -
FIRST FLOOR -
AREA B

SHEET NUMBER

PS111

SANITARY SEWER PLAN SYMBOL LEGEND

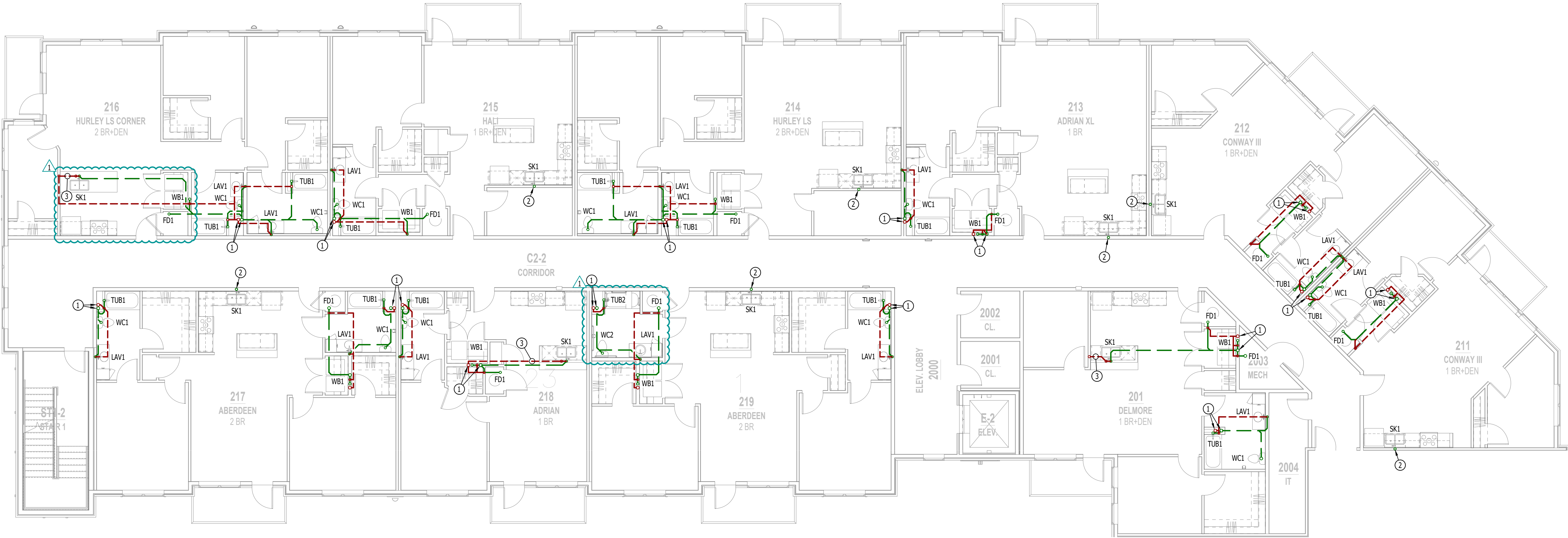
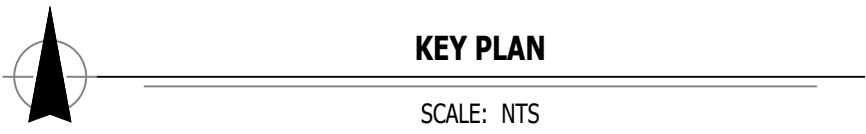
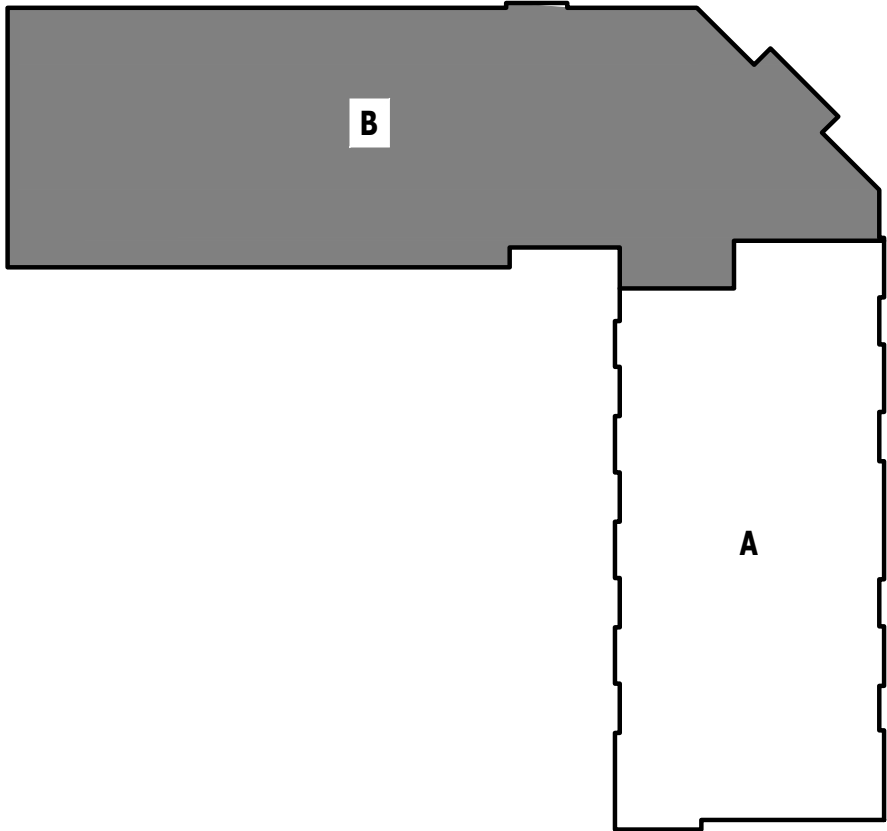
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- PIPING TURNED DOWN / TURNED UP
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SANITARY SEWER PLAN GENERAL NOTES:

1. REFER TO P500 AND/OR P600 SERIES SHEETS FOR ADDITIONAL PLUMBING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

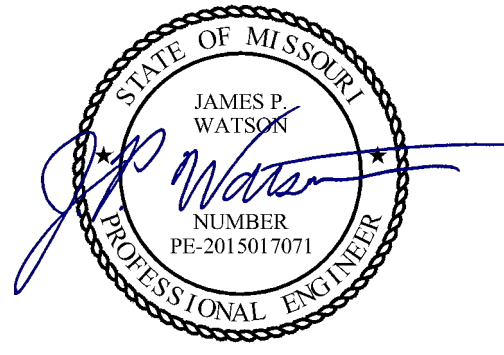
SANITARY SEWER PLAN KEY NOTES:

- ① 3" SANITARY STACK DOWN FROM THIRD FLOOR; CONTINUES DOWN TO FIRST FLOOR. 3" VENT UP FROM FIRST FLOOR; CONTINUES UP TO THIRD FLOOR.
- ② 3" WASTE STACK VENT DOWN FROM THIRD FLOOR; 3" SAN CONTINUES DOWN TO FIRST FLOOR.
- ③ ISLAND SINK VENT BELOW FLOOR PER 2018 IPC SECTION 916.

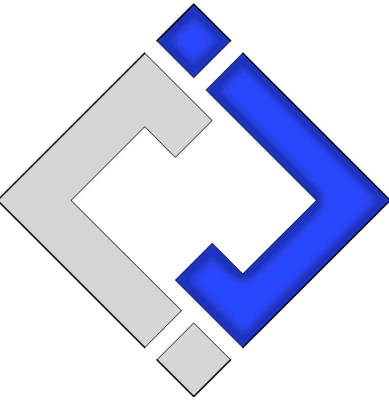


SANITARY SEWER PLAN - SECOND FLOOR - AREA B

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



James Watson, P.E. January 22, 2025
PE-2015017071
MO Certificate of Authority # 2018029680



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J2 PROJECT No: J21013.1

J2 DESIGN: ACW

ISSUE TITLE DATE

CITY SUBMITTAL 12 - 20 - 2024

ADDENDUM #1 01 - 22 - 2025

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

SANITARY
SEWER PLAN -
SECOND FLOOR -
AREA B

SHEET NUMBER

PS112

SANITARY SEWER PLAN SYMBOL LEGEND

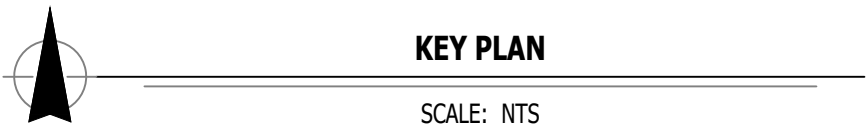
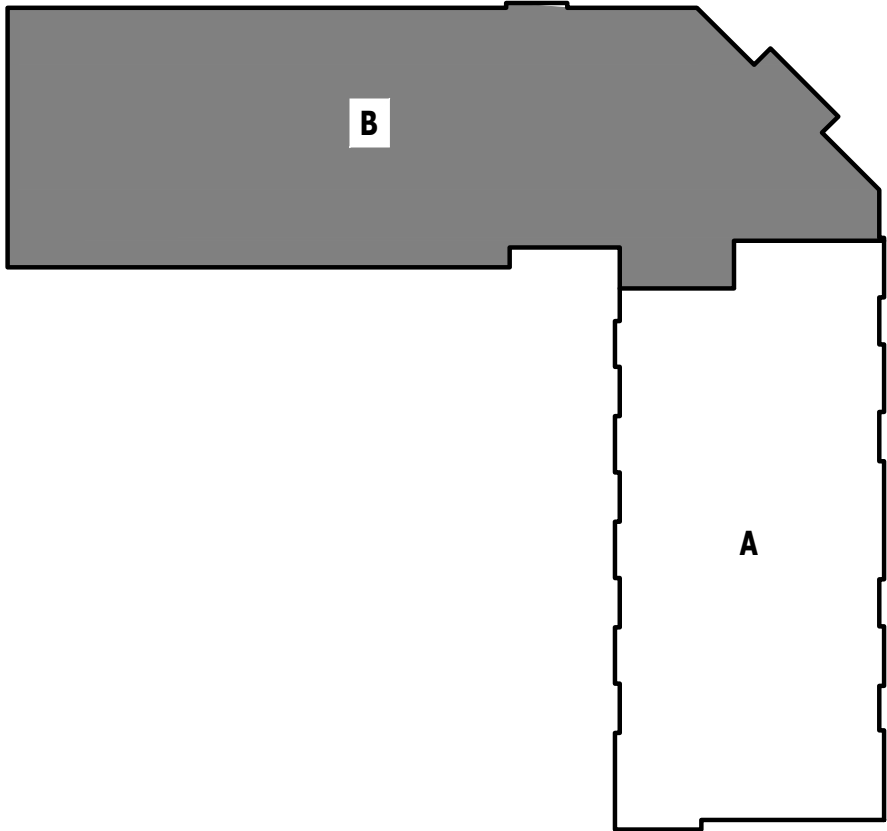
- SANITARY SEWER PIPING
- VENT PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. REFER TO P500 AND/OR P600 SERIES SHEETS FOR ADDITIONAL PLUMBING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

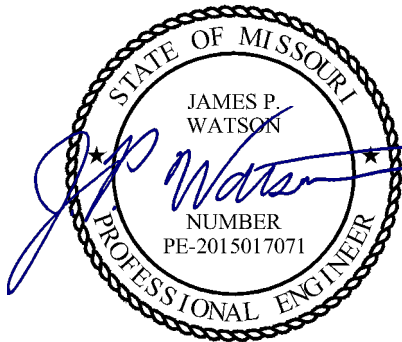
SANITARY SEWER PLAN KEY NOTES:

- ① 3" SANITARY STACK DOWN / 3" VENT UP FROM BELOW TO VENT THRU ROOF.
- ② 3" WASTE STACK VENT DOWN / 2" VENT UP TO VENT THRU ROOF.
- ③ ISLAND SINK VENT BELOW FLOOR PER 2018 IPC SECTION 916.

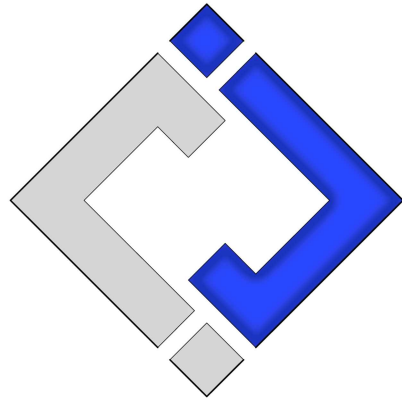


KEY PLAN

SCALE: NTS



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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

SANITARY
SEWER PLAN -
THIRD FLOOR -
AREA B

SHEET NUMBER

PS113



SANITARY SEWER PLAN - THIRD FLOOR - AREA B

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

POWER PLAN SYMBOL LEGEND

- PK-XX

CIRCUIT TAG
- J

JUNCTION BOX
- XX-42

RECEPTACLE

INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)

"WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- DATA / PHONE JACK; BOX WITH 1" CONDUIT & CAT6 CABLE BACK TO MEDIA PANEL LOCATION
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- D

DISCONNECT
- SD

120V IONIZATION SMOKE 520Hz LOW FREQUENCY ALARM WITH SILENCING CAPABILITIES & LOW-VOLTAGE CONTACTS WIRED TO SHUT DOWN AHU UPON FIRE DETECTION.
COORDINATE WITH HVAC CONTRACTOR. SMOKE DETECTOR MUST BE LOCATED AT LEAST 3' FROM CEILING FAN BLADES AND AT LEAST 10' FROM ANY COOKING APPLIANCE (FIELD-COORDINATE)

POWER PLAN GENERAL NOTES:

1.

SEE E500 & E600 SERIES SHEETS FOR POWER SCHEDULES, DETAILS, REQUIREMENTS, ETC.
2.

SEE SHEET MEP4 FOR CONDENSING UNIT LOCATIONS.
3.

VERIFY EACH DATA/RECEPTACLE LOCATION WITH OWNER PRIOR TO INSTALLATION.
4.

REFER TO "TYPICAL ADA MOUNTING HEIGHTS DETAIL", SHEET E501, FOR MOUNTING HEIGHTS OF DEVICES IN "ANSI A" UNITS.

POWER PLAN KEY NOTES:

- 1

MEDIA PANEL LOCATION; DATA/TV WIRING TO TERMINATE AT THIS LOCATION. DETERMINE EXACT LOCATION & DETAILS WITH OWNER PRIOR TO INSTALLATION.

LIGHTING PLAN SYMBOL LEGEND

- X1

LIGHTING FIXTURE

"X1" INDICATES FIXTURE TYPE
(REFER TO SCHEDULE)
- S

TOGGLE SWITCH

SWITCH TYPE
- D

DIMMER SWITCH

LIGHTING PLAN GENERAL NOTES:

1.

SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2.

ALL LIGHTING SHOWN SHALL BE ON CIRCUIT -16 UNLESS NOTED OTHERWISE.



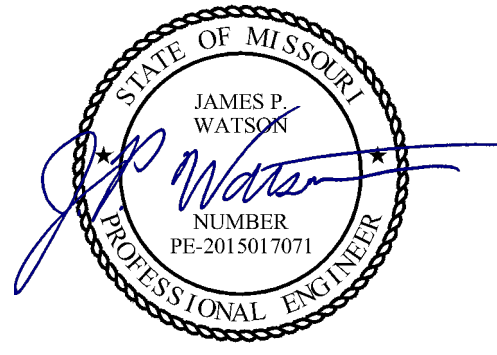
POWER PLAN - CONWAY III

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

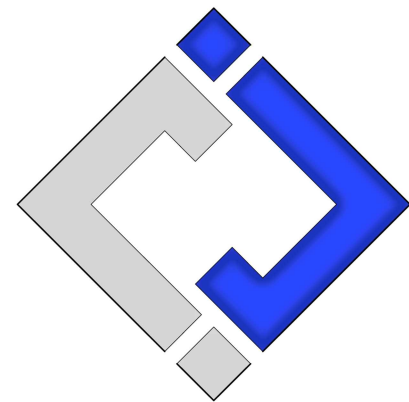


LIGHTING PLAN - CONWAY III

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



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J2 PROJECT No: J21013.1

J2 DESIGN: ACW

ISSUE TITLE DATE

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ADDENDUM #1 01 - 22 - 2025

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

POWER &
LIGHTING PLAN
- CONWAY III

SHEET NUMBER

UMEP2.3.2

HVAC PLAN SYMBOL LEGEND

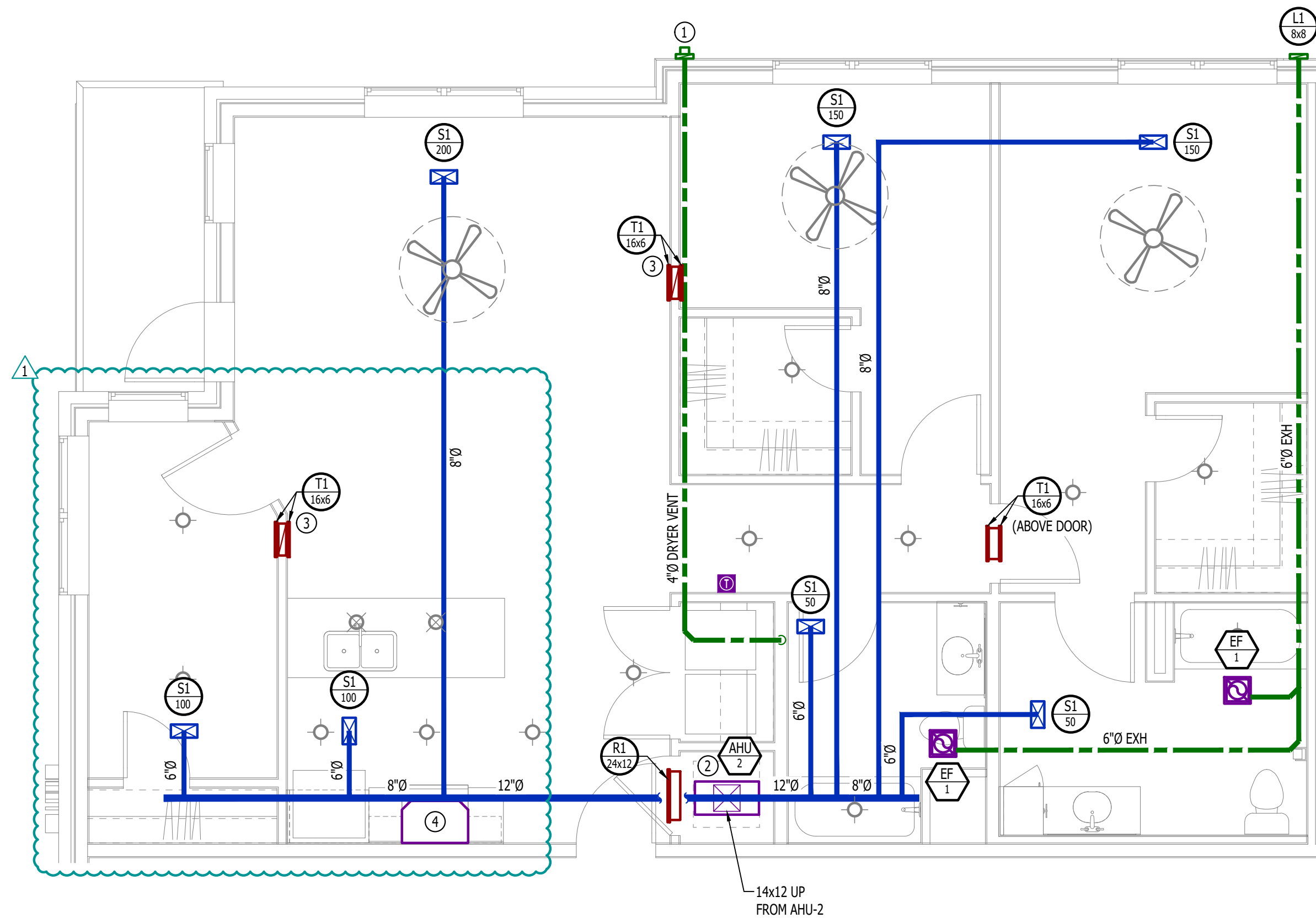
- ⬅ X # ⬅ EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
⬅ X # ⬅ EQUIPMENT REFERENCE NUMBER
⬅ X # ⬅ DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
⬅ X # ⬅ CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- - - RETURN DUCTWORK
- - - EXHAUST DUCTWORK
~ FLEX DUCT
- ⊠ SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
⊠ RETURN DIFFUSER
— BALANCE DAMPER
M — MOTORIZED DAMPER
C — CEILING RADIATION DAMPER
B — BACK DRAFT DAMPER
T — THERMOSTAT

HVAC PLAN GENERAL NOTES:

- SEE SHEETS M501 & M601 FOR HVAC SCHEDULES, DETAILS, REQUIREMENTS, ETC.
- SEE SHEET MEP4 FOR CONDENSING UNIT LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- SUPPLY DUCTWORK FROM AHU AT FLOOR/CEILING PENETRATION SHALL BE PROTECTED BY A FIRE DAMPER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- WRAP ALL DRYER DUCTS WITH FIREMASTER (OR EQUAL) DUCT WRAP.
- TOTAL DEVELOPED LENGTH OF EXHAUST DUCT SHALL BE INDICATED ON A PERMANENT LABEL WITHIN 6' OF DRYER VENT CONNECTION. DRYER DUCT ROUTING SHOWN IS FOR REFERENCE ONLY. OVERALL DUCT LENGTH SHALL BE CALCULATED BY HVAC CONTRACTOR PER 2018 IMC 504.8.4.
- LOCATE ALL EXHAUST / DRYER VENT TERMINATIONS AT LEAST 36" FROM OPERABLE OPENINGS INTO APARTMENTS (WINDOWS, DOORS, ETC.).
- ALL DUCTWORK SHOWN SHALL ROUTE IN SPACE BETWEEN / THRU TRUSSES UNLESS NOTED OTHERWISE. SEE STRUCTURAL DRAWINGS FOR DETAILS.

HVAC PLAN KEY NOTES:

- TERMINATE 4" DRYER EXHAUST WITH VENT EQUAL TO DRYER WALL VENT #DWV4.
- AHU WALL MOUNTED ABOVE WATER HEATER. COORDINATE WITH PLUMBING CONTRACTOR. CONDENSATE TO DISCHARGE IN FLOOR DRAIN WITHIN CLOSET.
- HI/LOW TRANSFER GRILLE (12" A.F.F. ON BEDROOM SIDE OF WALL; 84" A.F.F ON OPPOSITE SIDE OF WALL).
- RESIDENTIAL RECIRCULATION HOOD TO BE SUPPLIED & INSTALLED BY GC.



HVAC PLAN - HURLEY LS

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

PLUMBING PLAN SYMBOL LEGEND

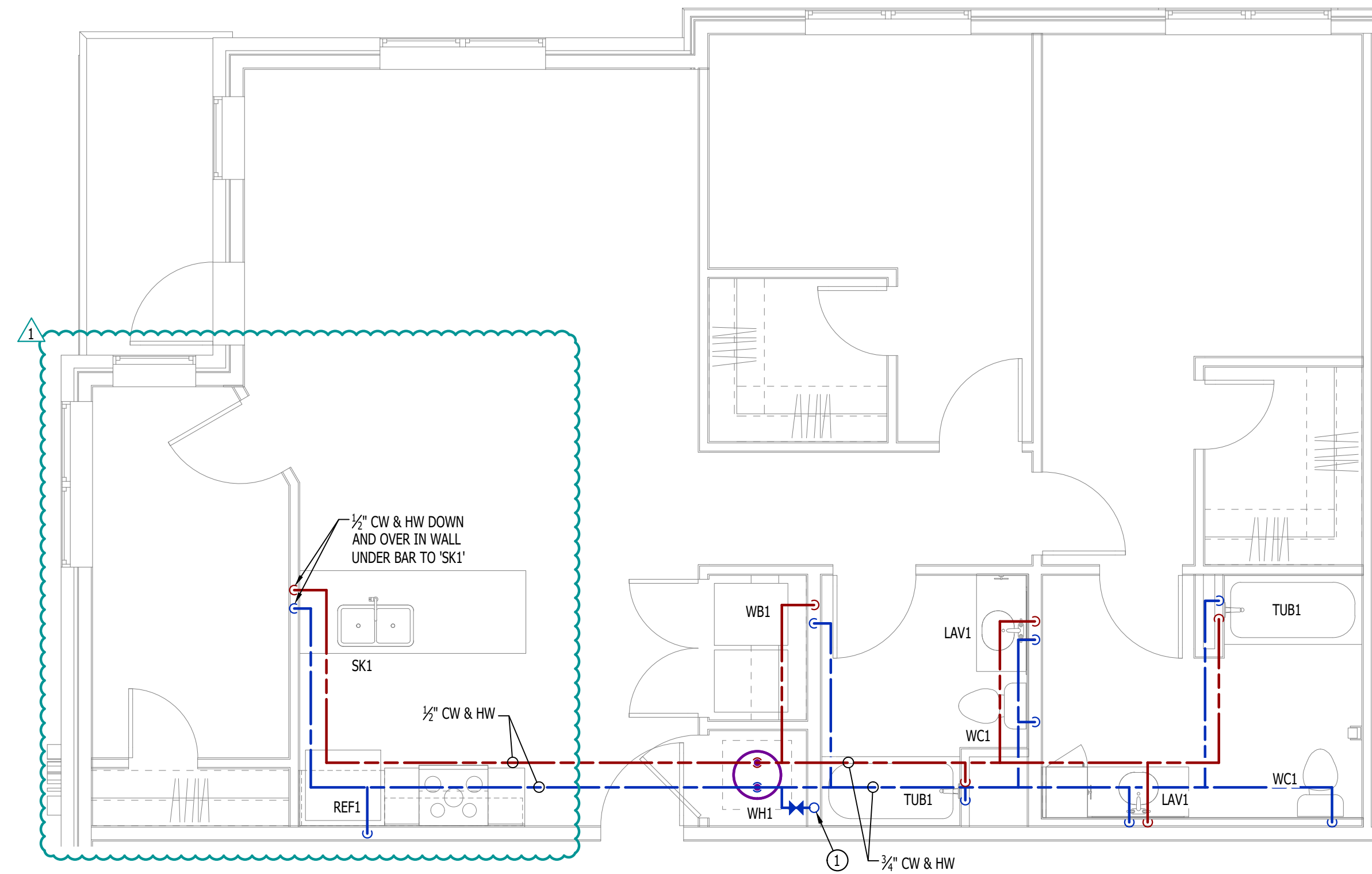
- COLD WATER LINE
— HOT WATER LINE
⋈ VALVE
— PIPING TURNED DOWN / TURNED UP

WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
- ALL PLUMBING LOCATED ON EXTERIOR WALLS SHALL ROUTE WITHIN INSULATION BARRIER.
- ALL DOMESTIC SUPPLY LINES SERVING MORE THAN (1) FIXTURE SHALL BE 3/4" UNLESS NOTED OTHERWISE.

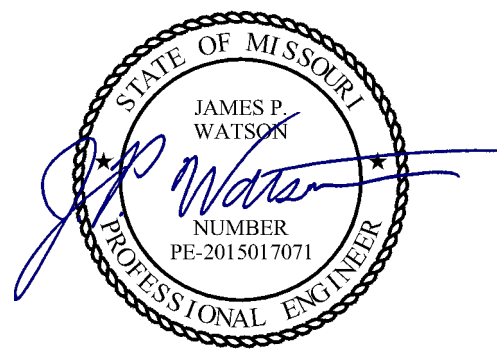
WATER PLAN KEY NOTES:

- 1" CW PIPE UP FROM BELOW WITH SHUT-OFF VALVE IN ACCESSIBLE LOCATION. SEE OVERALL PLUMBING PLANS FOR DETAILS.

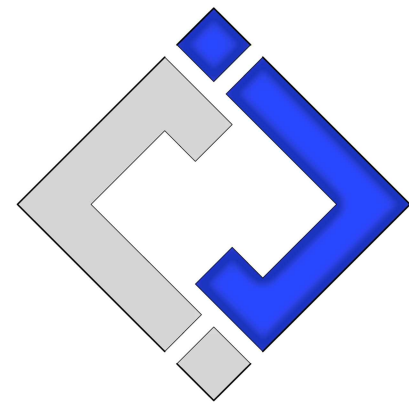


WATER PLAN - HURLEY LS

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



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J2 PROJECT No:	J21013.1
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMITTAL	12 - 20 - 2024
ADDENDUM #1	01 - 22 - 2025

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

HVAC & WATER PLAN -
HURLEY LS CORNER

SHEET NUMBER

UMEP2.4.1

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- PK-XX CIRCUIT TAG
- J JUNCTION BOX
- XX (WP) RECEPTACLE
- INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- DATA / PHONE JACK; BOX WITH 1" CONDUIT & CAT6 CABLE BACK TO MEDIA PANEL LOCATION (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- DISCONNECT
- 120V IONIZATION SMOKE 520Hz LOW FREQUENCY ALARM WITH SILENCING CAPABILITIES & LOW-VOLTAGE CONTACTS WIRED TO SHUT DOWN AHU UPON FIRE DETECTION. COORDINATE WITH HVAC CONTRACTOR. SMOKE DETECTOR MUST BE LOCATED AT LEAST 3' FROM CEILING FAN BLADES AND AT LEAST 10' FROM ANY COOKING APPLIANCE (FIELD-COORDINATE)

POWER PLAN GENERAL NOTES:

- SEE E500 & E600 SERIES SHEETS FOR POWER SCHEDULES, DETAILS, REQUIREMENTS, ETC.
- SEE SHEET MEP4 FOR CONDENSING UNIT LOCATIONS.
- VERIFY EACH DATA/RECEPTACLE LOCATION WITH OWNER PRIOR TO INSTALLATION.
- REFER TO "TYPICAL ADA MOUNTING HEIGHTS DETAIL", SHEET E501, FOR MOUNTING HEIGHTS OF DEVICES IN "ANSI A" UNITS.

POWER PLAN KEY NOTES:

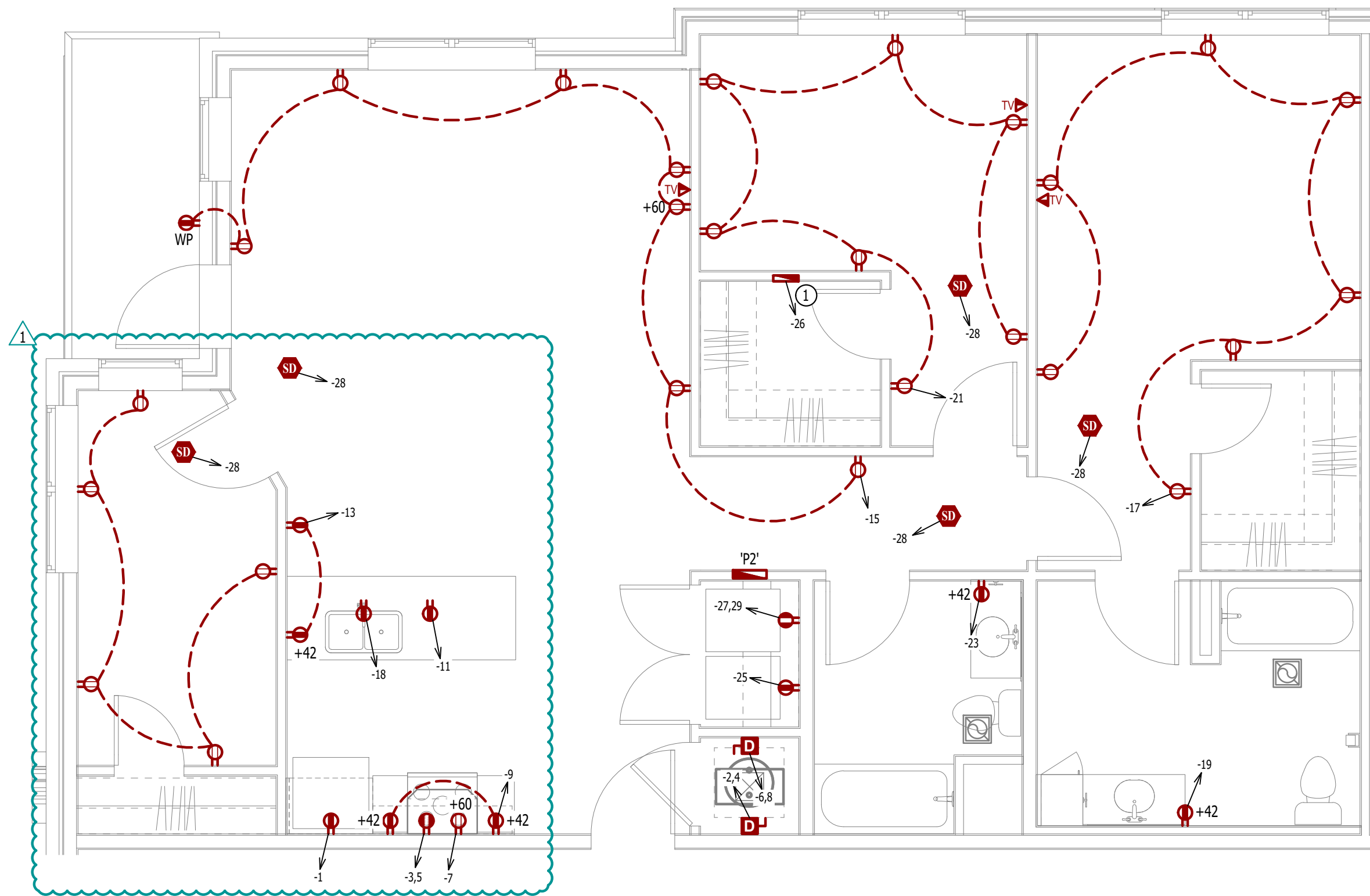
- ① MEDIA PANEL LOCATION; DATA/TV WIRING TO TERMINATE AT THIS LOCATION. DETERMINE EXACT LOCATION & DETAILS WITH OWNER PRIOR TO INSTALLATION.

LIGHTING PLAN SYMBOL LEGEND

- X1 LIGHTING FIXTURE
- "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- TS TOGGLE SWITCH
- SW SWITCH TYPE
- D DIMMER SWITCH

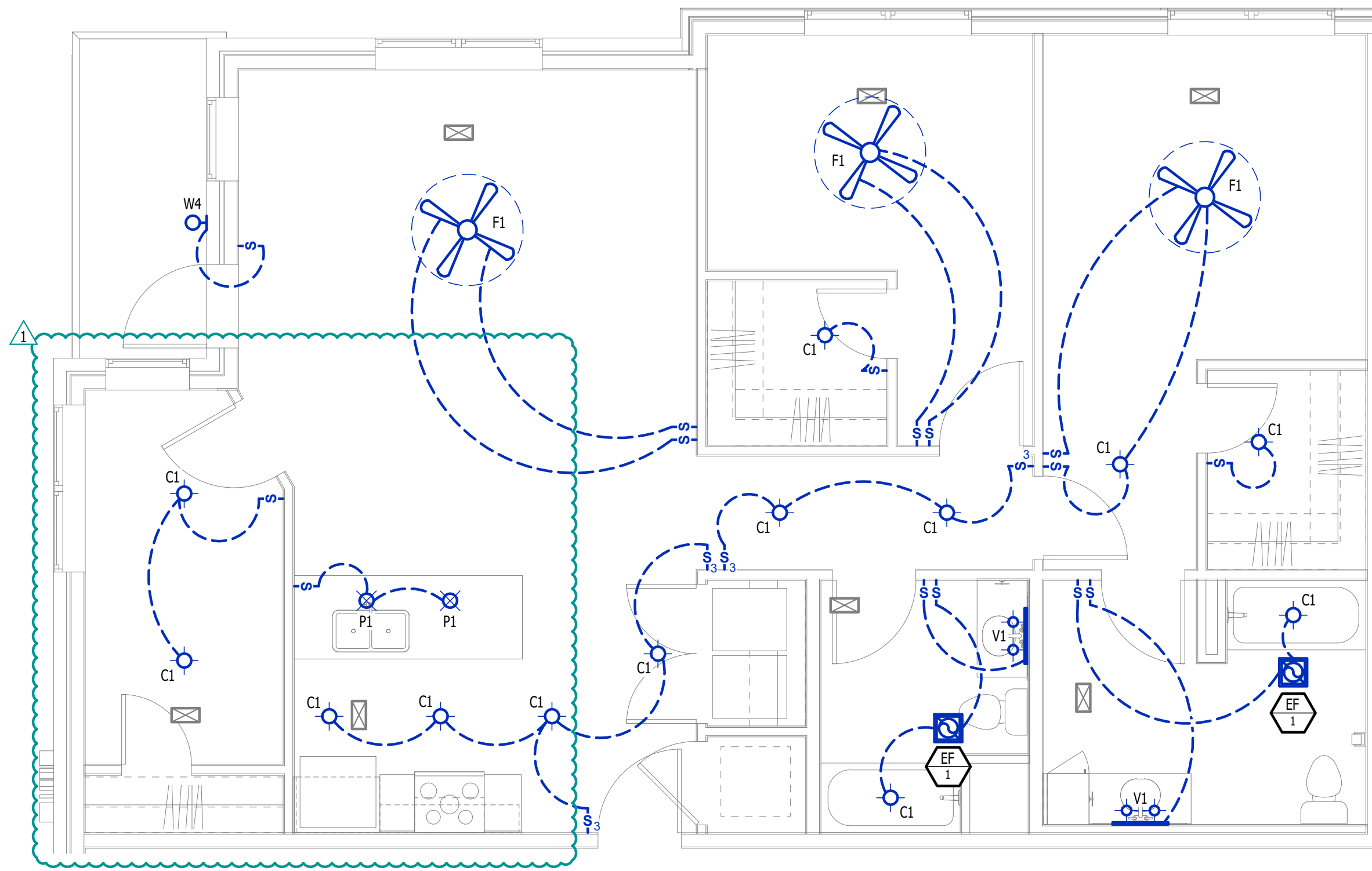
LIGHTING PLAN GENERAL NOTES:

- SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
- ALL LIGHTING SHOWN SHALL BE ON CIRCUIT -16 UNLESS NOTED OTHERWISE.



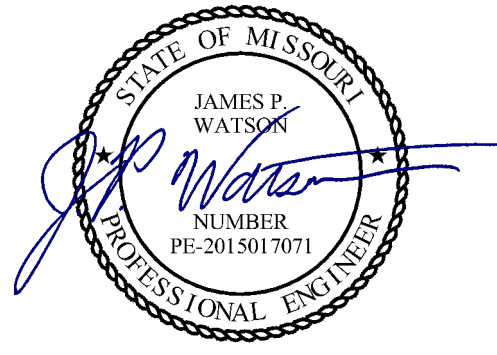
POWER PLAN - HURLEY LS

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

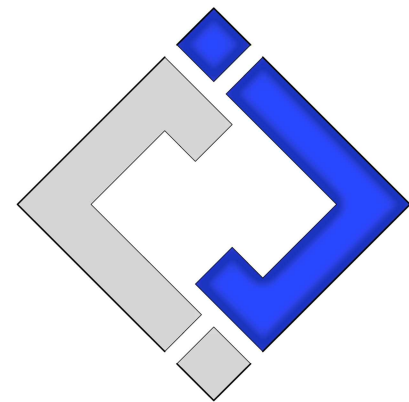


LIGHTING PLAN - HURLEY LS

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



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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

POWER & LIGHTING PLAN
- HURLEY LS CORNER

SHEET NUMBER

UMEP2.4.2

HVAC PLAN SYMBOL LEGEND

- ⬅ X # ⬅ EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
⬅ X # ⬅ EQUIPMENT REFERENCE NUMBER
⬅ X # ⬅ DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
⬅ X # ⬅ CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- - - RETURN DUCTWORK
- - - EXHAUST DUCTWORK
~ FLEX DUCT
- ⊠ SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
⊠ RETURN DIFFUSER
— BALANCE DAMPER
— MOTORIZED DAMPER
— CEILING RADIATION DAMPER
— BACK DRAFT DAMPER
② THERMOSTAT

HVAC PLAN GENERAL NOTES:

- SEE SHEETS M501 & M601 FOR HVAC SCHEDULES, DETAILS, REQUIREMENTS, ETC.
- SEE SHEET MEP4 FOR CONDENSING UNIT LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- SUPPLY DUCTWORK FROM AHU AT FLOOR/CEILING PENETRATION SHALL BE PROTECTED BY A FIRE DAMPER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- WRAP ALL DRYER DUCTS WITH FIREMASTER (OR EQUAL) DUCT WRAP.
- TOTAL DEVELOPED LENGTH OF EXHAUST DUCT SHALL BE INDICATED ON A PERMANENT LABEL WITHIN 6' OF DRYER VENT CONNECTION. DRYER DUCT ROUTING SHOWN IS FOR REFERENCE ONLY. OVERALL DUCT LENGTH SHALL BE CALCULATED BY HVAC CONTRACTOR PER 2018 IMC 504.8.4.
- LOCATE ALL EXHAUST / DRYER VENT TERMINATIONS AT LEAST 36" FROM OPERABLE OPENINGS INTO APARTMENTS (WINDOWS, DOORS, ETC.).
- ALL DUCTWORK SHOWN SHALL ROUTE IN SPACE BETWEEN / THRU TRUSSES UNLESS NOTED OTHERWISE. SEE STRUCTURAL DRAWINGS FOR DETAILS.

HVAC PLAN KEY NOTES:

- TERMINATE 4" DRYER EXHAUST WITH VENT EQUAL TO DRYER WALL VENT #DWV4.
- AHU WALL MOUNTED ABOVE WATER HEATER, COORDINATE WITH PLUMBING CONTRACTOR. CONDENSATE TO DISCHARGE IN FLOOR DRAIN WITHIN CLOSET.
- HI/LOW TRANSFER GRILLE (12" A.F.F. ON BEDROOM SIDE OF WALL; 84" A.F.F. ON OPPOSITE SIDE OF WALL).
- RESIDENTIAL RECIRCULATION HOOD TO BE SUPPLIED & INSTALLED BY GC.

PLUMBING PLAN SYMBOL LEGEND

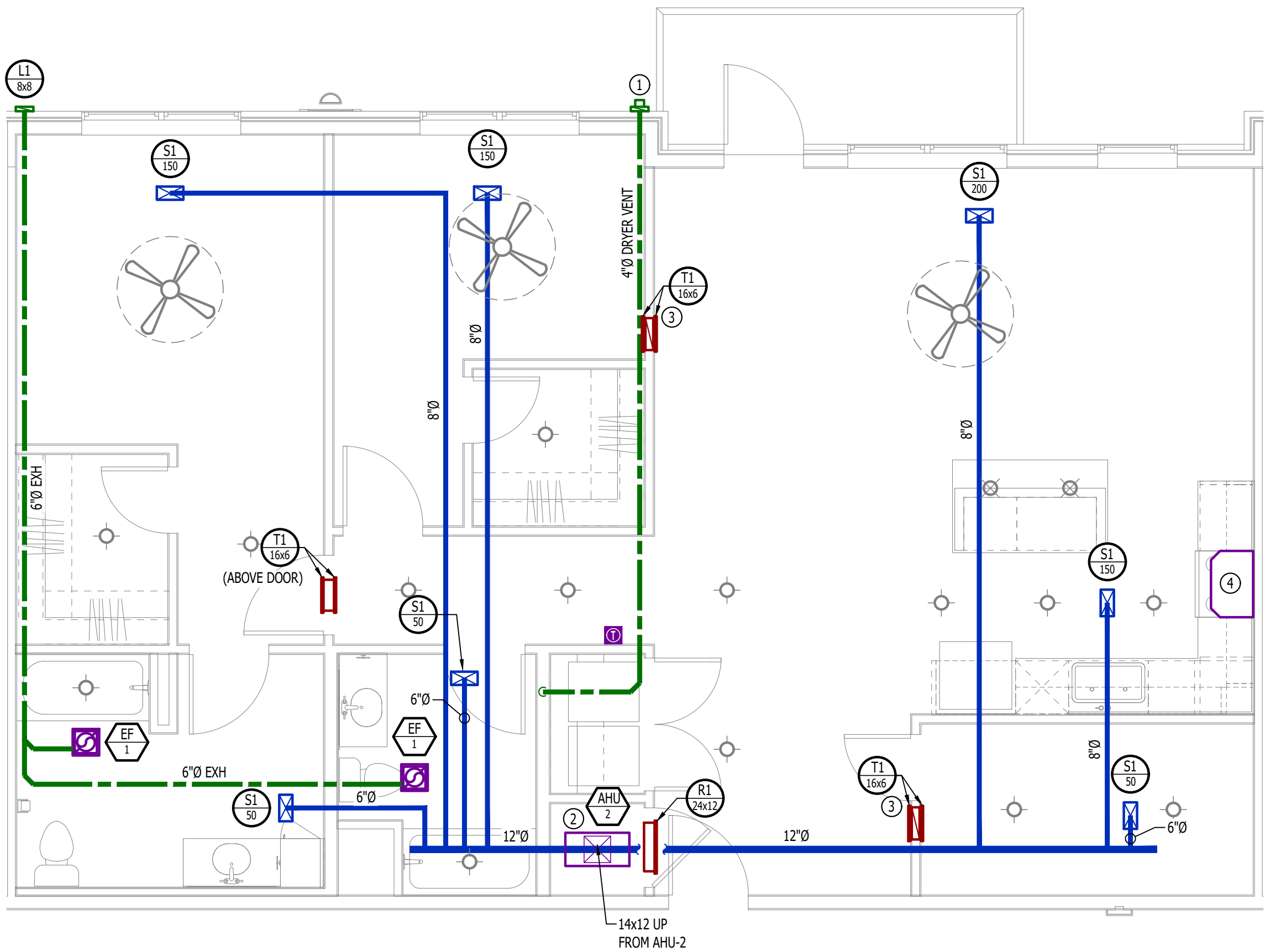
- COLD WATER LINE
— HOT WATER LINE
⋈ VALVE
— PIPING TURNED DOWN / TURNED UP

WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
- ALL PLUMBING LOCATED ON EXTERIOR WALLS SHALL ROUTE WITHIN INSULATION BARRIER.
- ALL DOMESTIC SUPPLY LINES SERVING MORE THAN (1) FIXTURE SHALL BE ¾" UNLESS NOTED OTHERWISE.

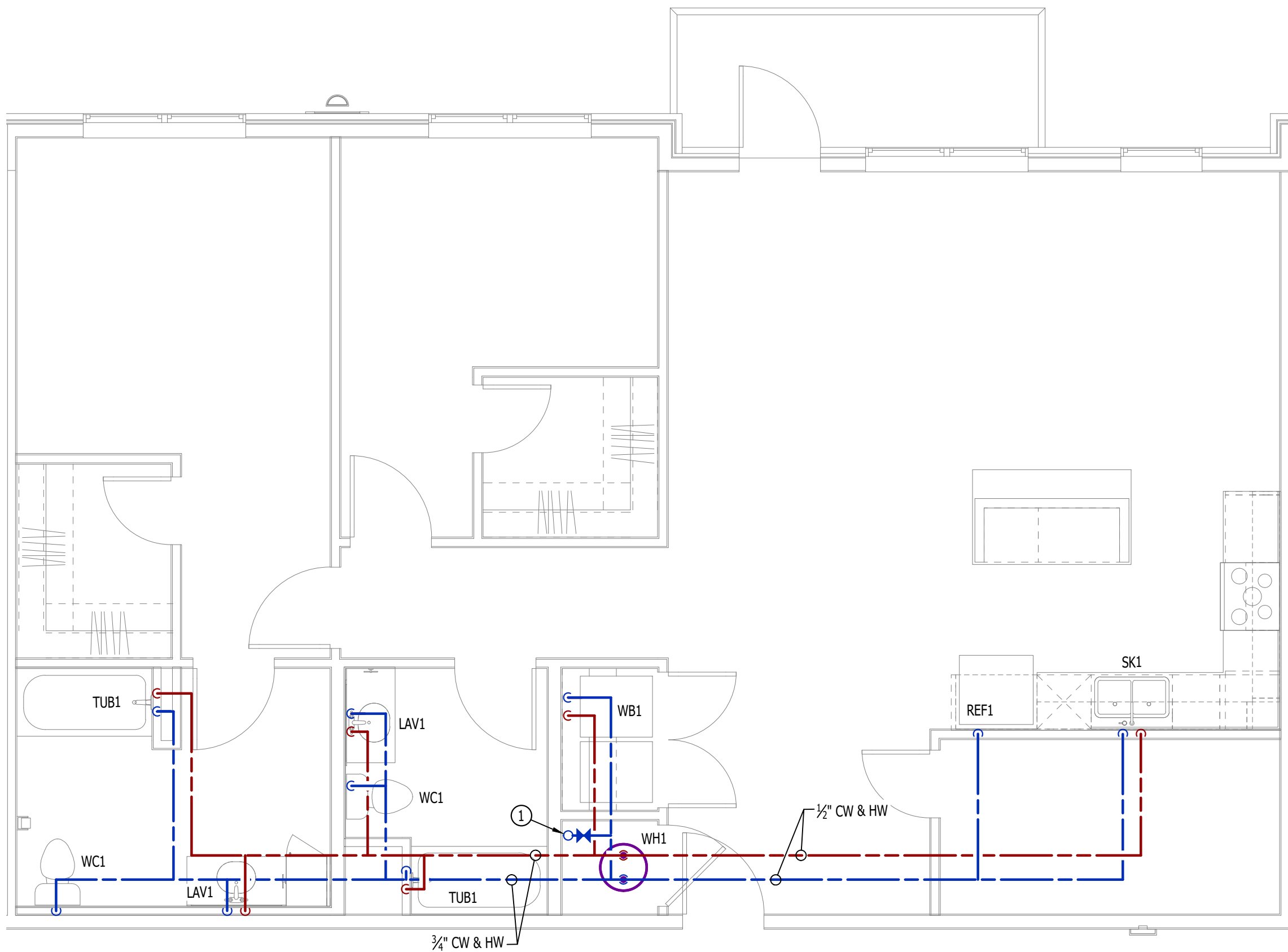
WATER PLAN KEY NOTES:

- 1" CW PIPE UP FROM BELOW WITH SHUT-OFF VALVE IN ACCESSIBLE LOCATION. SEE OVERALL PLUMBING PLANS FOR DETAILS.



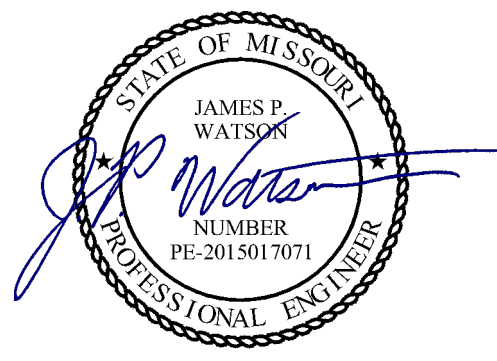
HVAC PLAN - HURLEY LS TYPE B

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

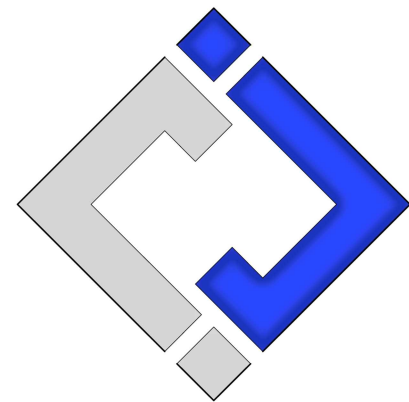


WATER PLAN - HURLEY LS TYPE B

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



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Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

HVAC & WATER PLAN -
HURLEY LS

SHEET NUMBER

UMEP2.5.1

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- PK-XX CIRCUIT TAG
- Ⓜ JUNCTION BOX
- Ⓜ RECEPTACLE
- XX Ⓜ +42 INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- Ⓜ WP = WEATHERPROOF OUTDOOR RECEPTACLE
- Ⓜ GFCI DUPLEX CONVENIENCE RECEPTACLE
- Ⓜ 208V RECEPTACLE
- Ⓜ QUADPLEX CONVENIENCE RECEPTACLE
- ▼ DATA / PHONE JACK; BOX WITH 1" CONDUIT & CAT5 CABLE BACK TO MEDIA PANEL LOCATION (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- Ⓜ DISCONNECT
- Ⓜ 120V IONIZATION SMOKE 520Hz LOW FREQUENCY ALARM WITH SILENCING CAPABILITIES & LOW-VOLTAGE CONTACTS WIRED TO SHUT DOWN AHU UPON FIRE DETECTION. COORDINATE WITH HVAC CONTRACTOR. SMOKE DETECTOR MUST BE LOCATED AT LEAST 3' FROM CEILING FAN BLADES AND AT LEAST 10' FROM ANY COOKING APPLIANCE (FIELD-COORDINATE)

POWER PLAN GENERAL NOTES:

- SEE E500 & E600 SERIES SHEETS FOR POWER SCHEDULES, DETAILS, REQUIREMENTS, ETC.
- SEE SHEET MEP4 FOR CONDENSING UNIT LOCATIONS.
- VERIFY EACH DATA/RECEPTACLE LOCATION WITH OWNER PRIOR TO INSTALLATION.
- REFER TO "TYPICAL ADA MOUNTING HEIGHTS DETAIL", SHEET E501, FOR MOUNTING HEIGHTS OF DEVICES IN "ANSI A" UNITS.

POWER PLAN KEY NOTES:

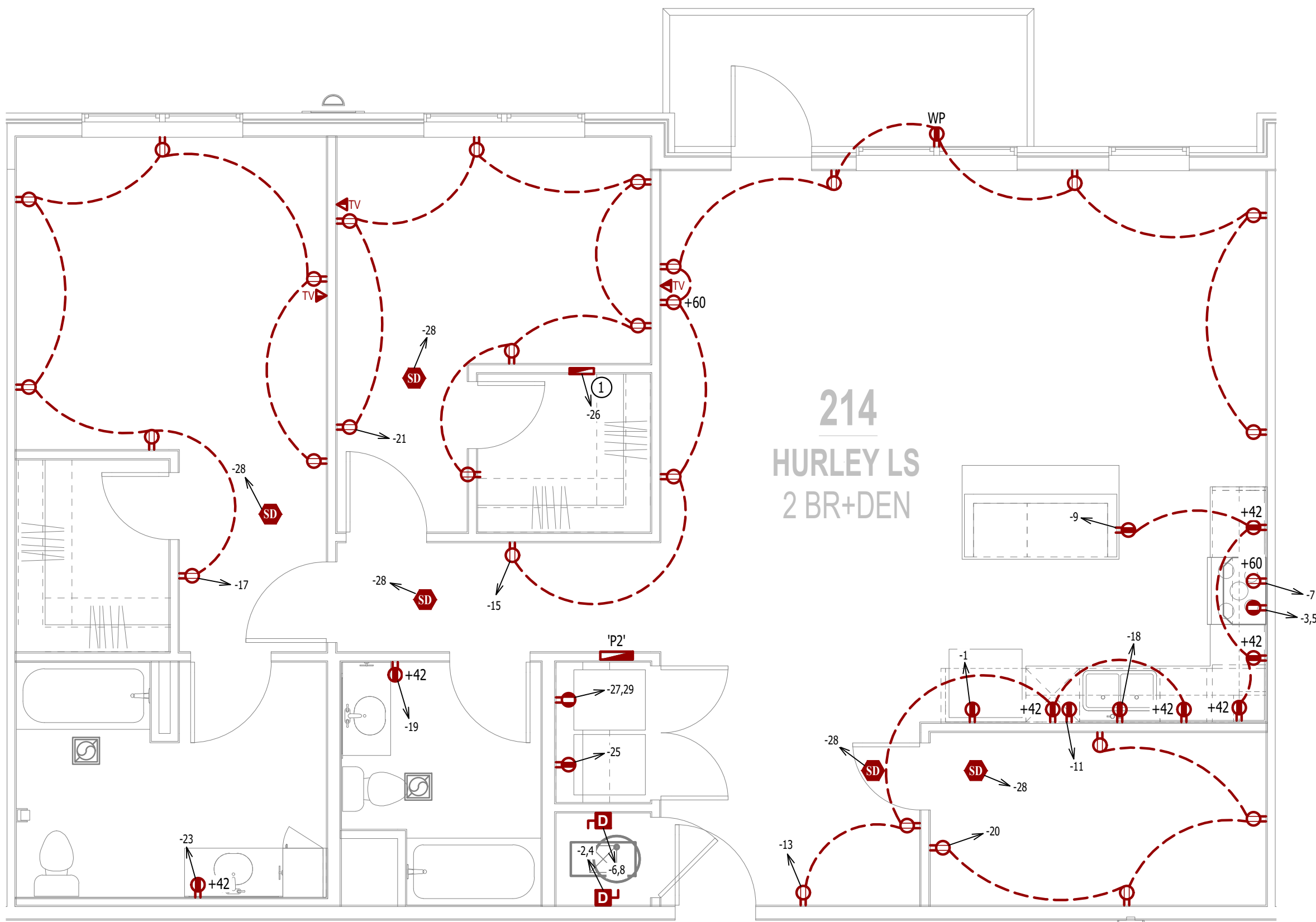
- ① MEDIA PANEL LOCATION; DATA/TV WIRING TO TERMINATE AT THIS LOCATION. DETERMINE EXACT LOCATION & DETAILS WITH OWNER PRIOR TO INSTALLATION.

LIGHTING PLAN SYMBOL LEGEND

- Ⓜ X1 LIGHTING FIXTURE
- Ⓜ "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- Ⓜ Ⓜ TOGGLE SWITCH
- Ⓜ SWITCH TYPE
- Ⓜ DIMMER SWITCH

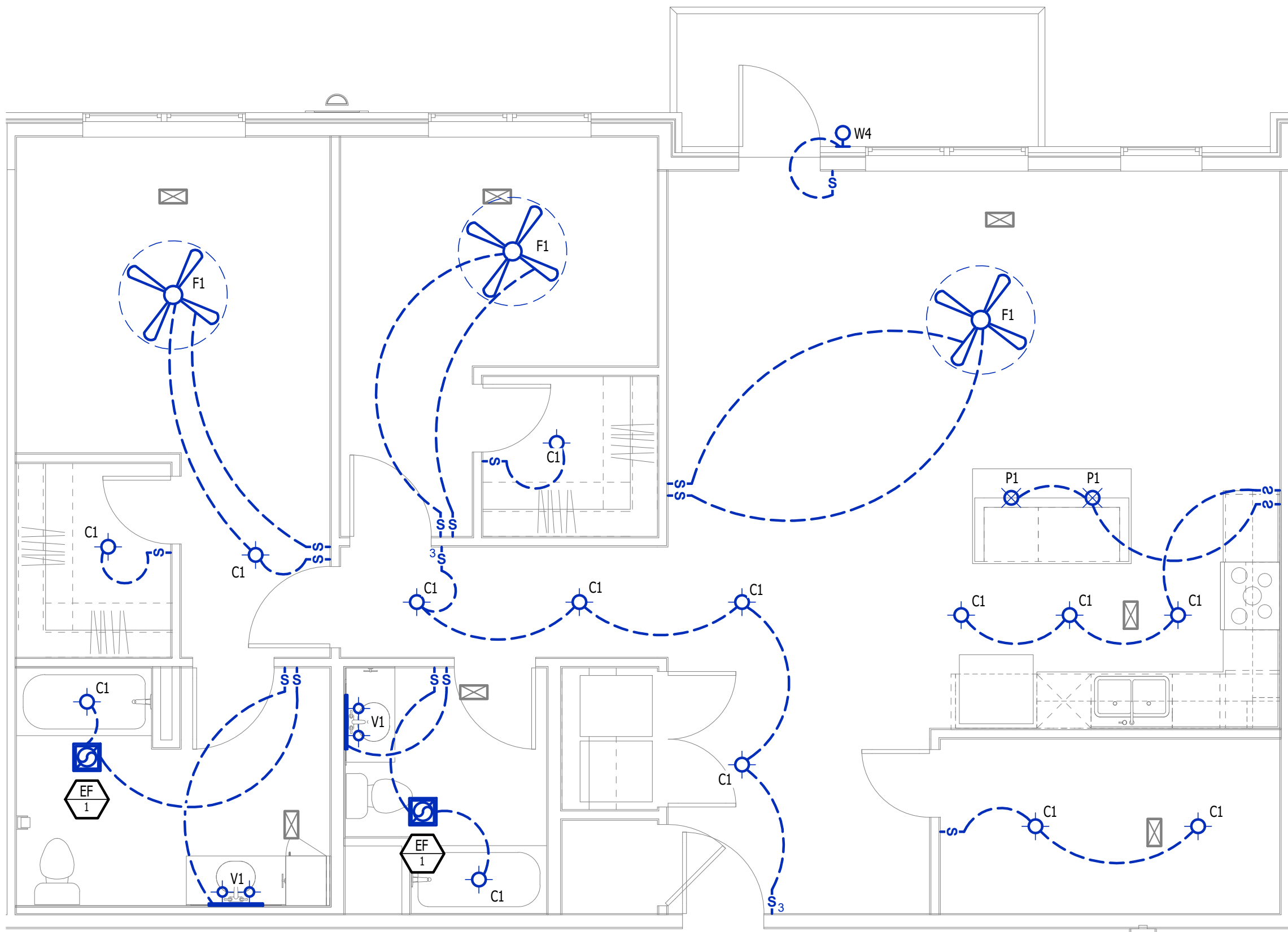
LIGHTING PLAN GENERAL NOTES:

- SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
- ALL LIGHTING SHOWN SHALL BE ON CIRCUIT -16 UNLESS NOTED OTHERWISE.



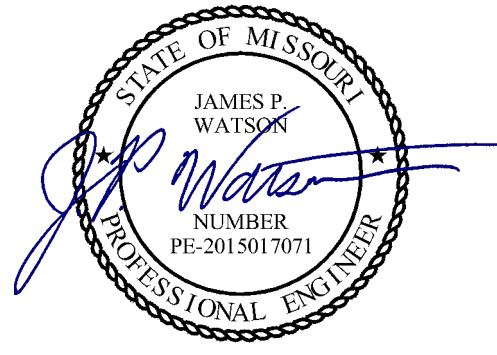
POWER PLAN - HURLEY LS

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

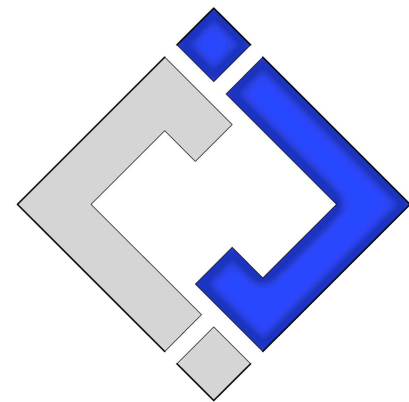


LIGHTING PLAN - HURLEY LS

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



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J2 PROJECT No: J21013.1

J2 DESIGN: ACW

ISSUE TITLE DATE

CITY SUBMITTAL 12 - 20 - 2024

ADDENDUM #1 01 - 22 - 2025

HVAC PLAN SYMBOL LEGEND

- X

#

← EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- ← EQUIPMENT REFERENCE NUMBER
- X

#

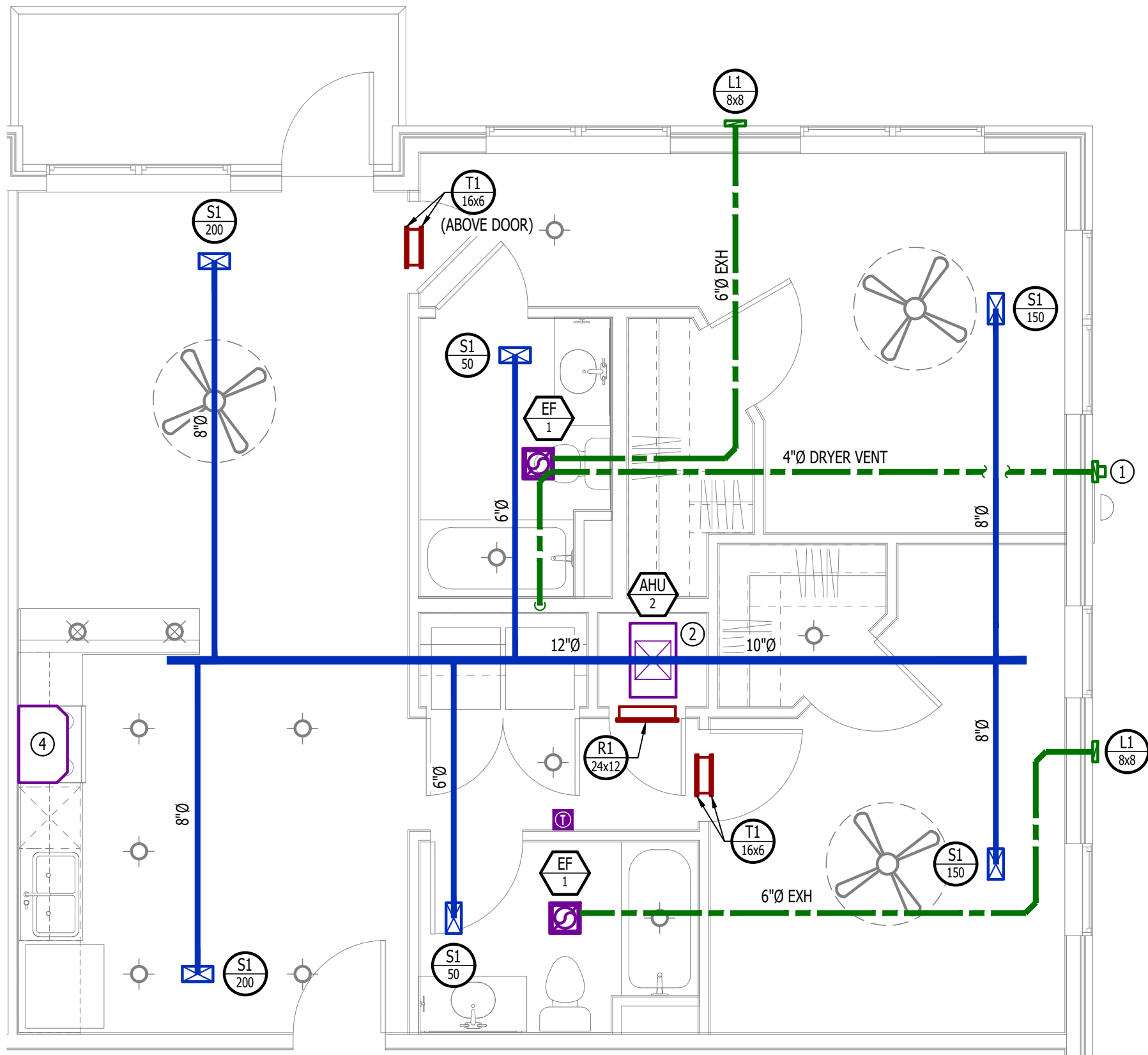
← DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
- ← CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK
- FLEX DUCT
- SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
- RETURN DIFFUSER
- BALANCE DAMPER
- MOTORIZED DAMPER
- CEILING RADIATION DAMPER
- BACK DRAFT DAMPER
- THERMOSTAT

HVAC PLAN GENERAL NOTES:

1. SEE SHEETS M501 & M601 FOR HVAC SCHEDULES, DETAILS, REQUIREMENTS, ETC.
2. SEE SHEET MEP4 FOR CONDENSING UNIT LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
3. SUPPLY DUCTWORK FROM AHU AT FLOOR/CEILING PENETRATION SHALL BE PROTECTED BY A FIRE DAMPER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. WRAP ALL DRYER DUCTS WITH FIREMASTER (OR EQUAL) DUCT WRAP.
5. TOTAL DEVELOPED LENGTH OF EXHAUST DUCT SHALL BE INDICATED ON A PERMANENT LABEL WITHIN 6' OF DRYER VENT CONNECTION. DRYER DUCT ROUTING SHOWN IS FOR REFERENCE ONLY. OVERALL DUCT LENGTH SHALL BE CALCULATED BY HVAC CONTRACTOR PER 2018 IMC 504.8.4.
6. LOCATE ALL EXHAUST / DRYER VENT TERMINATIONS AT LEAST 36" FROM OPERABLE OPENINGS INTO APARTMENTS (WINDOWS, DOORS, ETC.).
7. ALL DUCTWORK SHOWN SHALL ROUTE IN SPACE BETWEEN / THRU TRUSSES UNLESS NOTED OTHERWISE. SEE STRUCTURAL DRAWINGS FOR DETAILS.

HVAC PLAN KEY NOTES:

- ① TERMINATE 4" DRYER EXHAUST WITH VENT EQUAL TO DRYER WALL VENT #DWV4.
- ② AHU WALL MOUNTED ABOVE WATER HEATER, COORDINATE WITH PLUMBING CONTRACTOR. CONDENSATE TO DISCHARGE IN FLOOR DRAIN WITHIN CLOSET.
- ③ HI/LOW TRANSFER GRILLE (12" A.F.F. ON BEDROOM SIDE OF WALL; 84" A.F.F ON OPPOSITE SIDE OF WALL).
- ④ RESIDENTIAL RECIRCULATION HOOD TO BE SUPPLIED & INSTALLED BY GC.



HVAC PLAN - LANA

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

PLUMBING PLAN SYMBOL LEGEND

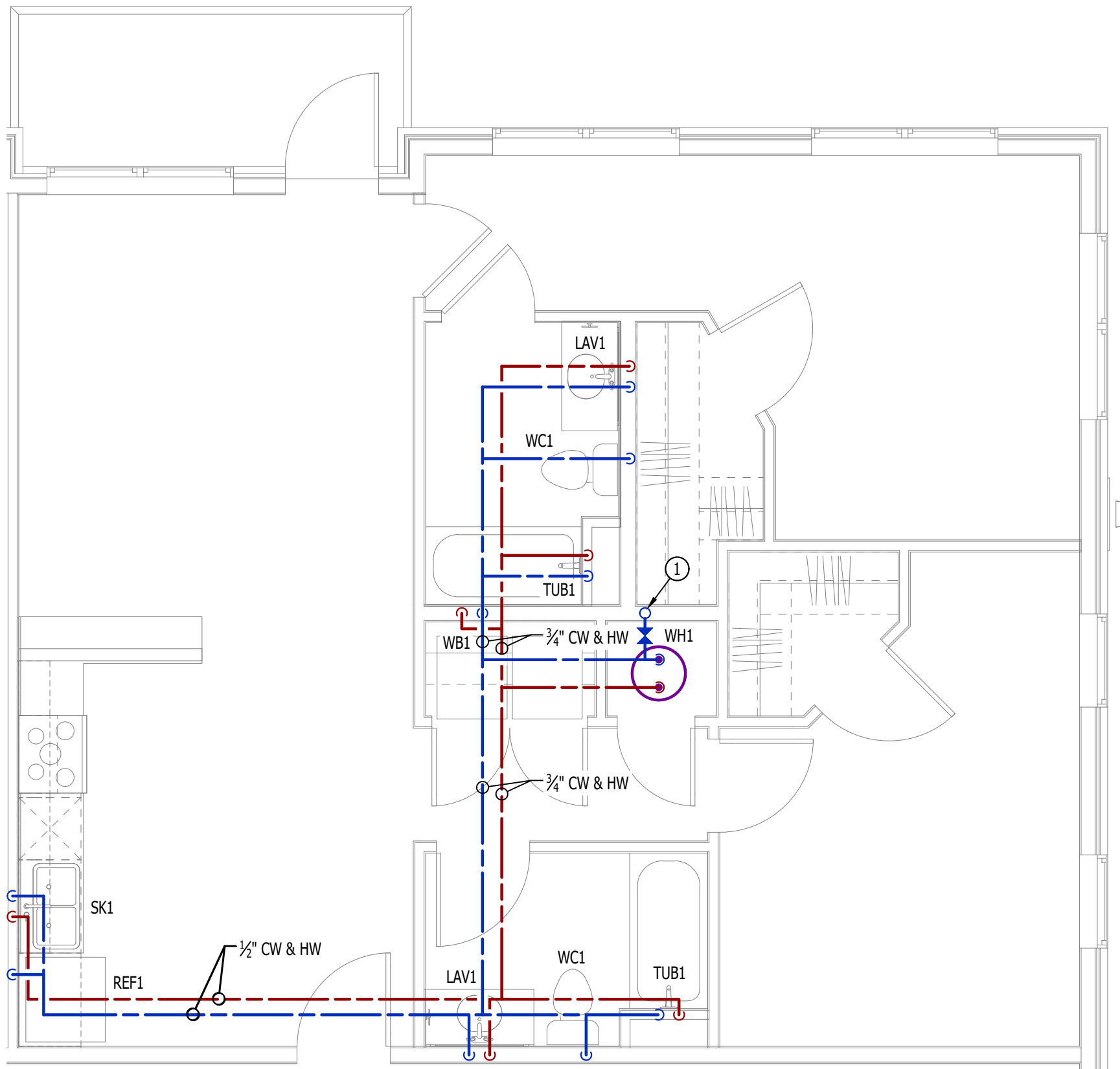
- COLD WATER LINE
- HOT WATER LINE
- VALVE
- PIPING TURNED DOWN / TURNED UP

WATER PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
2. ALL PLUMBING LOCATED ON EXTERIOR WALLS SHALL ROUTE WITHIN INSULATION BARRIER.
3. ALL DOMESTIC SUPPLY LINES SERVING MORE THAN (1) FIXTURE SHALL BE 3/4" UNLESS NOTED OTHERWISE.

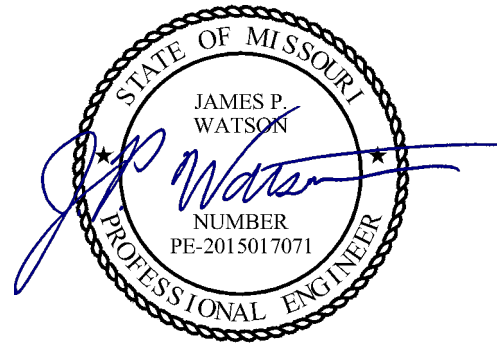
WATER PLAN KEY NOTES:

- ① 1" CW PIPE UP FROM BELOW WITH SHUT-OFF VALVE IN ACCESSIBLE LOCATION. SEE OVERALL PLUMBING PLANS FOR DETAILS.

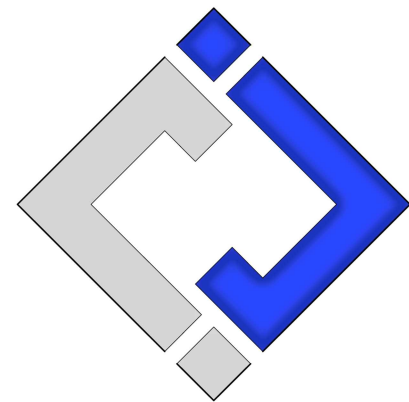


WATER PLAN - LANA

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



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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Lot 10B

100 Northeast Alura Way
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

HVAC &
WATER PLAN
- LANA

SHEET NUMBER

UMEP2.6.1

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
- INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- DATA / PHONE JACK; BOX WITH 1" CONDUIT & CAT6 CABLE BACK TO MEDIA PANEL LOCATION
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- DISCONNECT
- 120V IONIZATION SMOKE 520Hz LOW FREQUENCY ALARM WITH SILENCING CAPABILITIES &
LOW-VOLTAGE CONTACTS WIRED TO SHUT DOWN AHU UPON FIRE DETECTION.
COORDINATE WITH HVAC CONTRACTOR. SMOKE DETECTOR MUST BE LOCATED AT LEAST 3'
FROM CEILING FAN BLADES AND AT LEAST 10' FROM ANY COOKING APPLIANCE
(FIELD-COORDINATE)

POWER PLAN GENERAL NOTES:

1.

SEE E500 & E600 SERIES SHEETS FOR POWER SCHEDULES, DETAILS, REQUIREMENTS, ETC.
2.

SEE SHEET MEP4 FOR CONDENSING UNIT LOCATIONS.
3.

VERIFY EACH DATA/RECEPTACLE LOCATION WITH OWNER PRIOR TO INSTALLATION.
4.

REFER TO "TYPICAL ADA MOUNTING HEIGHTS DETAIL", SHEET E501, FOR MOUNTING HEIGHTS OF DEVICES IN "ANSI A" UNITS.

POWER PLAN KEY NOTES:

- ①

MEDIA PANEL LOCATION; DATA/TV WIRING TO TERMINATE AT THIS LOCATION. DETERMINE EXACT LOCATION & DETAILS WITH OWNER PRIOR TO INSTALLATION.

LIGHTING PLAN SYMBOL LEGEND

- X1

LIGHTING FIXTURE

"X1" INDICATES FIXTURE TYPE
(REFER TO SCHEDULE)
- S3

TOGGLE SWITCH

SWITCH TYPE
- D

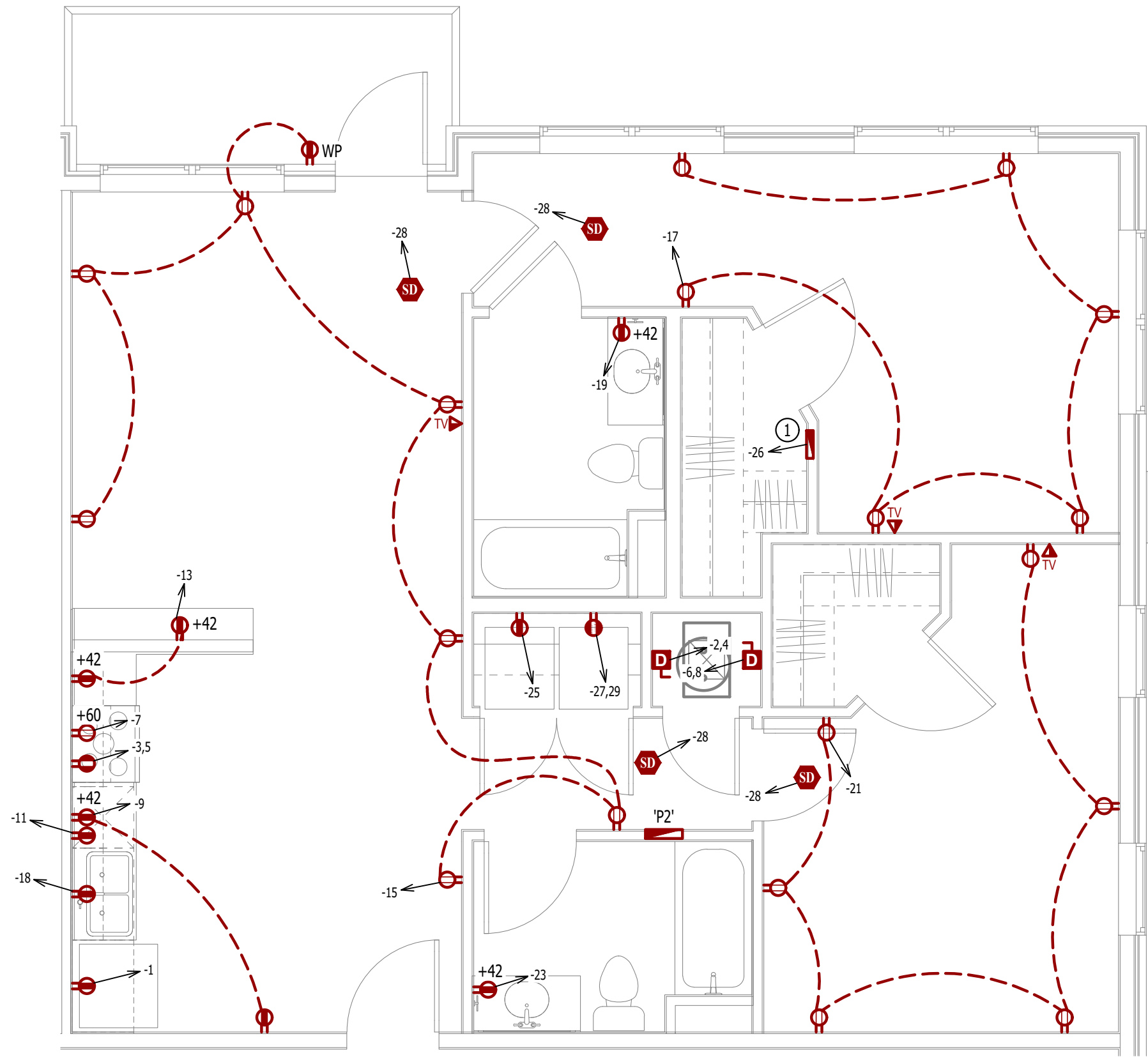
DIMMER SWITCH

LIGHTING PLAN GENERAL NOTES:

1.

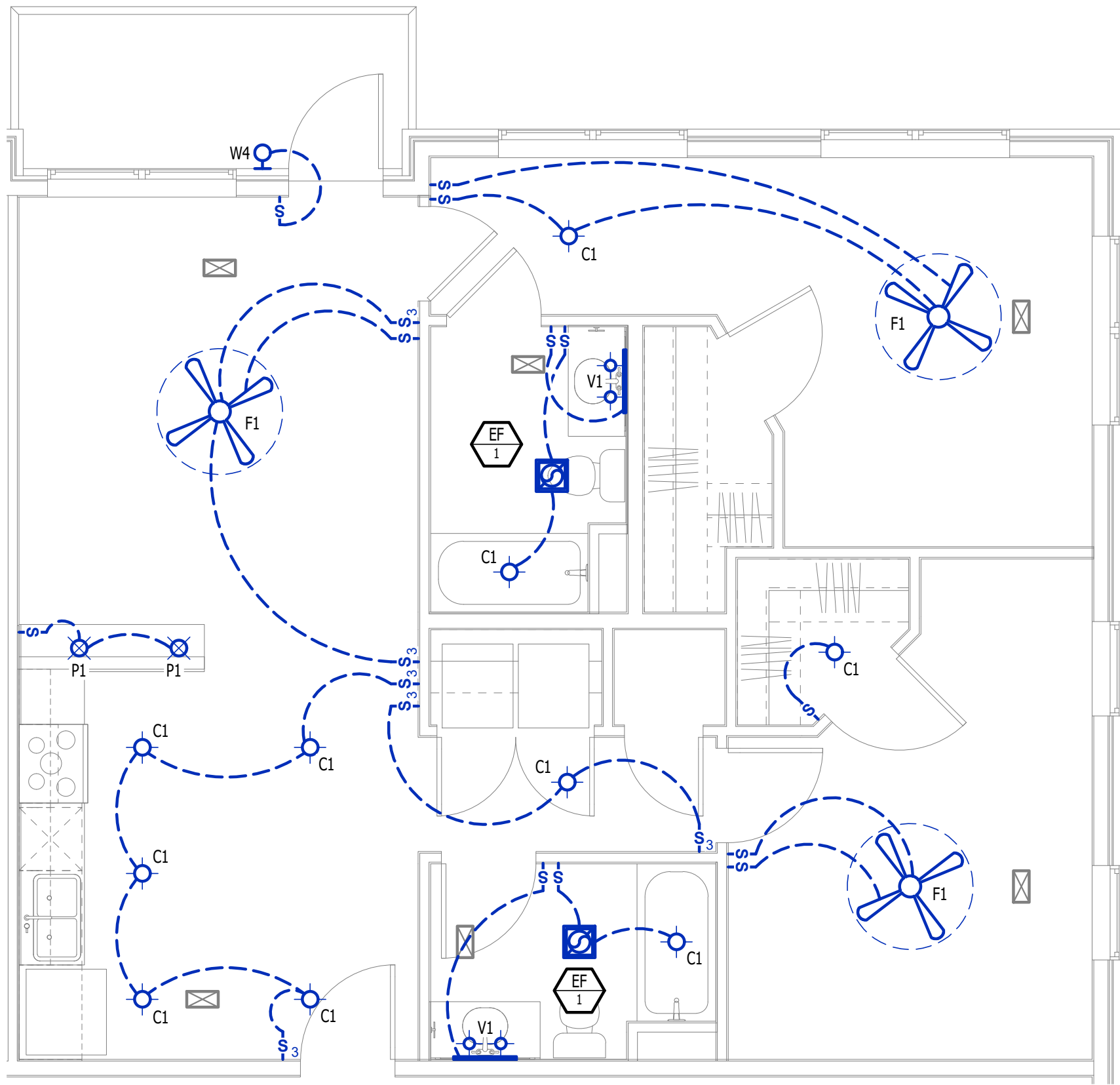
SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2.

ALL LIGHTING SHOWN SHALL BE ON CIRCUIT -16 UNLESS NOTED OTHERWISE.



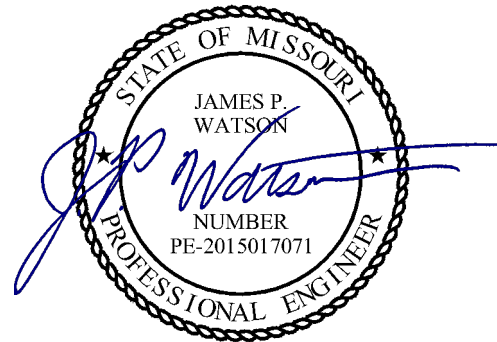
POWER PLAN - LANA

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

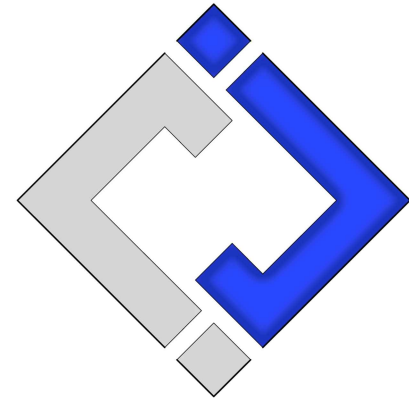


LIGHTING PLAN - LANA

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