






NFPA SYMBOLS LEGEND

	SMOKE DETECTOR
	SMOKE DETECTOR WITH SOUNDER BASE
	SMOKE DETECTOR WITH ISOLATOR BASE
	HEAT DETECTOR
	DUCT DETECTOR
	ADDRESSABLE MANUAL PULL STATION
	DOOR HOLDER
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	TEST STATION
	MR101C SHUTDOWN RELAY, SPOT WIRED
	24V (WALL MOUNTED) 24 VDC
	STROBE
	BELL ANNUNCIATOR
	HORN/SPEAKER
	FIRE ALARM CONTROL PANEL
	FIREMAN'S PHONE
	AREA RESCUE CALL STATION
	AREA RESCUE MASTER STATION
	SIGNAL ZAM
	CONTROL ZAM
	DETECTOR ZAM
	MONITOR MODULE
	RELAY IAM
	GRAPHIC COMMAND CENTER
	REMOTE FIRE ALARM AUDIO
	REMOTE ANNUNCIATOR WITH AUDIO
	ANNUNCIATOR
	FIRE SMOKE DAMPER
	NAC POWER EXTENDER

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

PAGING LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	PAGING SYSTEM	
	CEILING PAGING SPEAKER	
	WALL-MOUNTED PAGING SPEAKER	
	PAGING HORN	
	VOLUME CONTROL	

- 1 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 721711-1/4 W/ SINGLE GANG PLASTER RING AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING AS INDICATED ON DRAWINGS BY E/C.
- 2 - 2x4 BACKBOX WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 3 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 721711-1/4 WITH DOUBLE GANG PLASTER RING BY E/C. CONDUITS AS INDICATED ON PLANS.
- 4 - E/C TO PROVIDE CONDUIT BUSHING ON CONDUIT PRIOR TO T/C INSTALLING CABLING.
- 5 - CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.
- 6 - 2x4 SURFACE MOUNT BACKBOX LOCATED ABOVE ACCESSIBLE CEILING.

- 1 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 72171-1-1/4 WITH DOUBLE GANG PLASTER RING AND 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING BY E/C.
- 2 - E/C TO PROVIDE CONDUIT BUSHING ON CONDUIT PRIOR TO T/C INSTALLING CABLING.
- 3 - CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.

* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING/POWER REQUIREMENTS.

ALL SYMBOLS SHOWN MAY NOT APPEAR ON THIS PROJECT

A NEW MULTI-FAMILY PROJECT.

EVREN APARTMENTS







LEE'S SUMMIT, MISSOURI

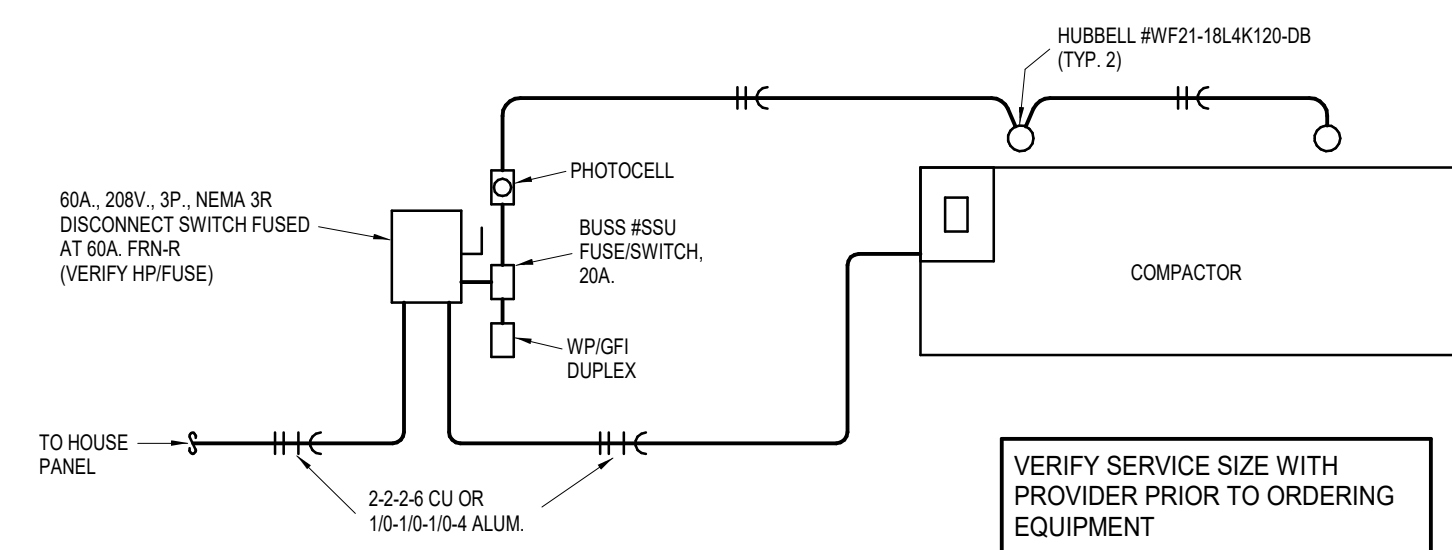
DRAWING RELEASE LOG
● 09.16.24 PERMIT SET

Δ REVISIONS

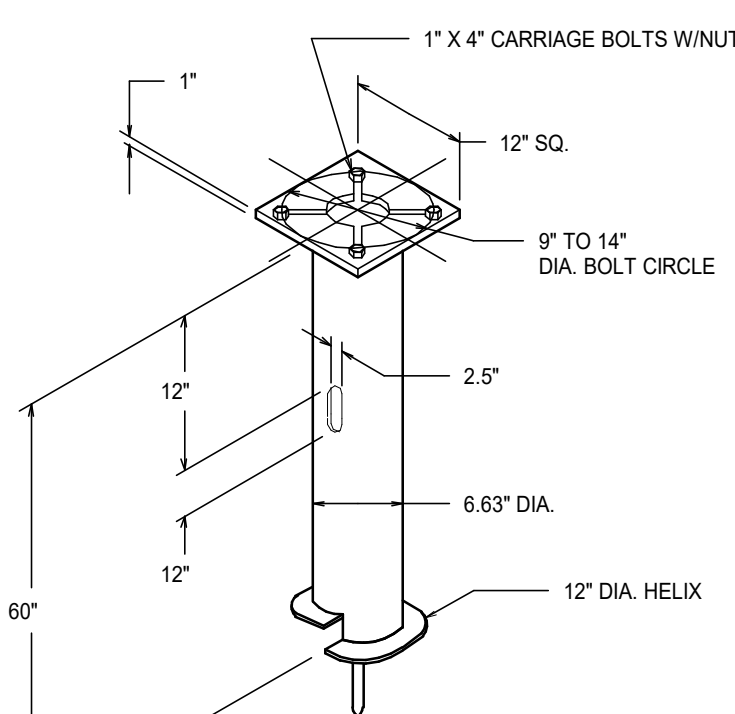
SHEET NO.

SHEET NO. **ME0.01**

- | SYMBOLS LEGEND | |
|---|---------------------------|
|  | PROPOSED TRANSFORMER |
|  | UG PRIMARY/SECONDARY |
|  | SANITARY SEWER |
|  | DOMESTIC WATER |
|  | FIRE SERVICE |
|  | TELECOMMUNICATION SERVICE |



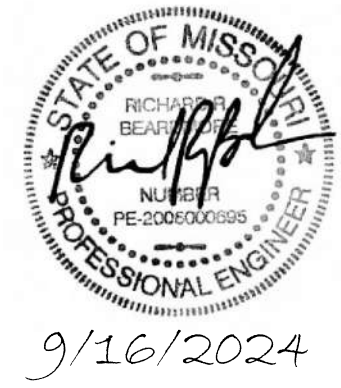
2 COMPACTOR DETAIL



3 LIGHT POLE FOUNDATION

- NOTES-
1. FINISH: HOT DIP GALVANIZE PER ASTM A153 (ATEST REVISION),
BEND TO BE PERPENDICULAR TO SHAFT AXIS (±11% T250) AND HOLE
CENTERLINE CONCENTRIC TO SHAFT AXIS (±11% T250)
2. STAPLE MIN. 1/2 IN LETTERS MANUFACTURER'S NUMBER
AFTER GALVANIZING
3. PLOT POINT AND SHAFT AXIS TO BE CONCENTRIC (±125 FIM) AND
IN LINE (±2% T250)
4. PLOT POINT SLOTT PERPENDICULAR TO THE BASEPLATE
5. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE,
HELIX, AND PLOT POINT ALL WELDED AREAS
6. FLAMECUT IRREGULARITIES PERMISSIBLE: (1) VALVEYS NOT TO
EXCEED .332 IN. BELOW NOMINAL SURFACE LEVEL. (2) PEAKS OR
POSITIVE IRREGULARITIES NOT TO EXCEED .132 IN. ABOVE NOMINAL
SURFACE LEVEL. (3) RUTS OR INTERFERENCES NOT TO EXCEED .132 IN.
8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN
QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES
ALL MATERIAL TO BE IN CONFORMANCE AND MILL TRACEABLE
- MEETING THE FOLLOWING SPECIFICATIONS:
- BASEPLATE: ASTM A36-(LATEST REVISION) HOT ROLLED STEEL
PLATE, (CONFORM TO AASHTO TECH. M. #270)
- SHAFT: STEEL PIPE PILES, SEAMLESS OR STRAIGHT WELDED,
GRADE 2 PER ASTM A532; ALT. MATERIAL: STEEL
PIPE TYPE E OR S, GRADE PER ASTM A53
- HELIX: ASTM A635 (LATEST REVISION) HOT ROLLED STEEL
PIPE
- PLOT POINT: ASTM A575 (LATEST REVISION) STEEL BAR
- BOLTS: CARR BOL PER ANSI B-18.2.1, SAE J429 GRADE-S
10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURERS
IDENTIFICATION "ABC" IN 1/2" LETTERS AND DATE CODE
IN 1/4" LETTERS.

1 SITE PLAN
MECH./ELEC.
1" = 40'-0"



NOTES: ELECTRICAL

- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
- PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
- FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
- LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
- PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
- SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
- SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.

NOTES: PLUMBING

- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
- ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
- ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
- ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
- CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
- THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
- ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
- SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
- ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
- ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.

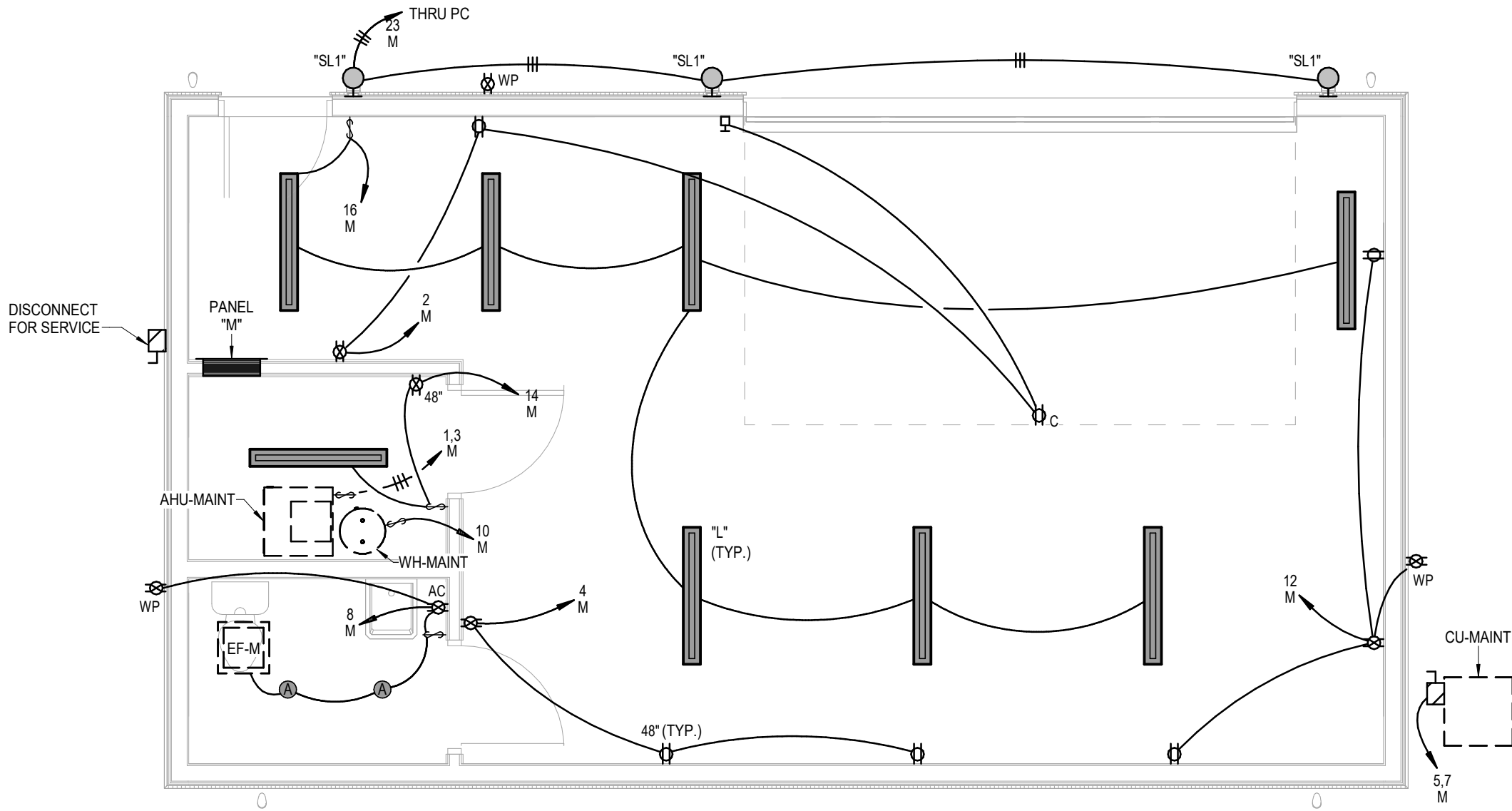
NOTES: MECHANICAL

- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
- ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
- SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
- MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
- ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.

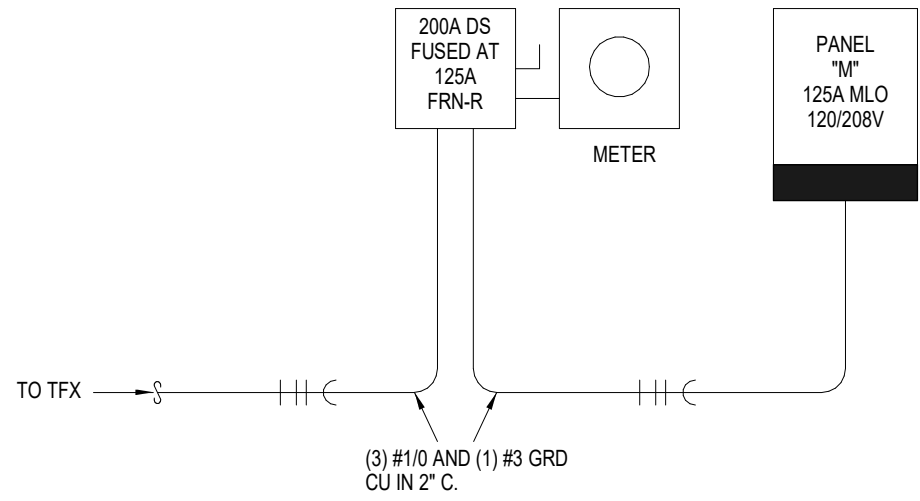
LEGEND:

① OUTSIDE AIR CONTROL AND BALANCING DAMPER.

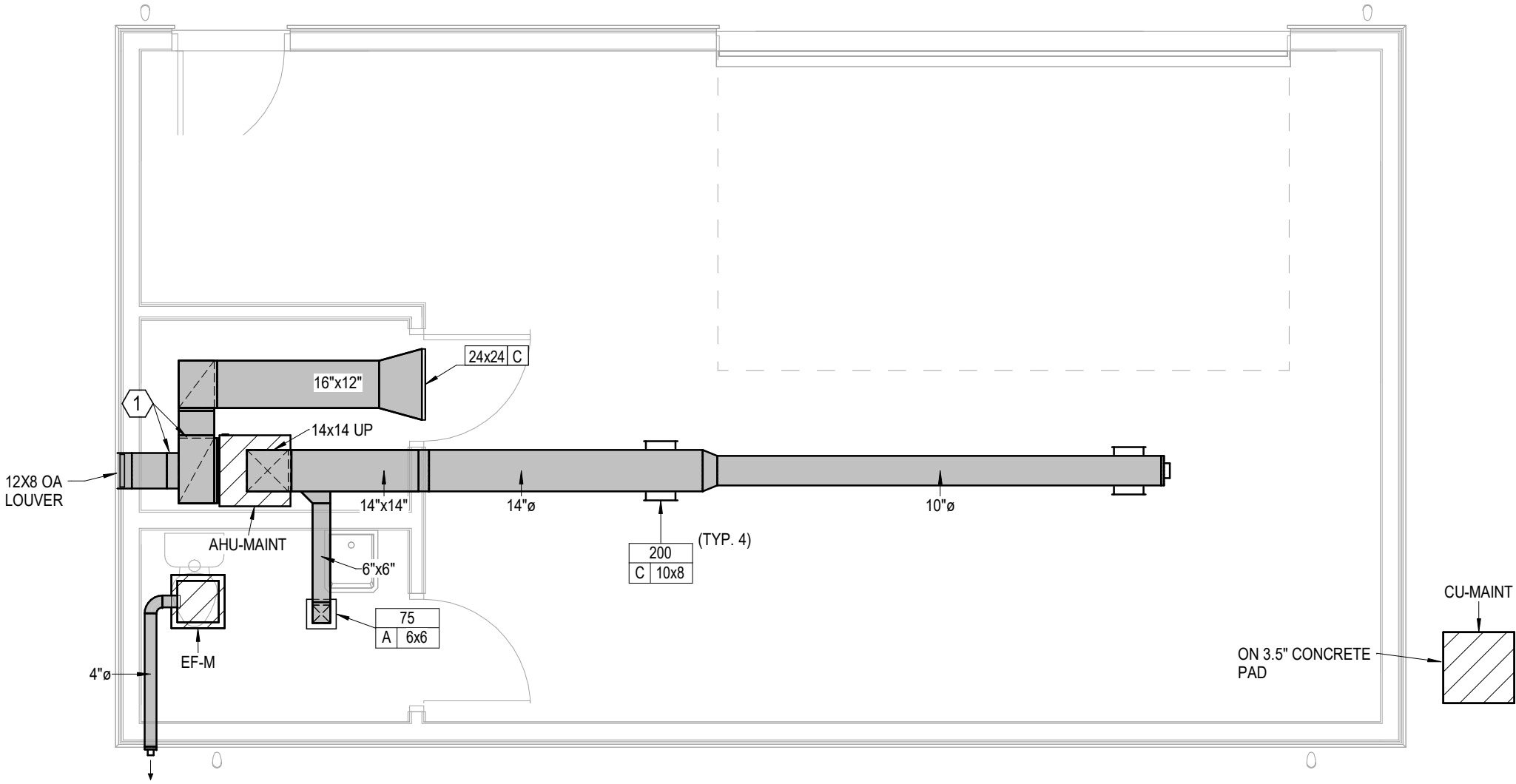
Panel: M													
Location:				Volts: 120/208 Wye				A.I.C. Rating: 22000					
Supply From: TFX				Phases: 3				Mains Type: MLO					
Mounting:				Wires: 4				Mains Rating: 125 A					
Enclosure:								MCB Rating:					
Notes:													
CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	AHU-MAINT	40 A	8	3224	180					12	20 A	Receptacle RESTROOM 521	2
3						3224	180			12	20 A	Receptacle RESTROOM 521	4
5	CU-MAINT	15 A	12	936	180			936	100	12	20 A	Lighting	6
7										12	20 A	Receptacle	8
9						5400	0			12	20 A	HVAC Load	10
11	COMPACTOR	60 A	6					5400	180	12	20 A	Receptacle RESTROOM 521	12
13				5400	180					12	20 A	Receptacle	14
15	EV CHARGER	40 A	8			1750	0			12	20 A	Other RESTROOM 521	16
17								1750	0	--	20 A	Spare	18
19	Lighting	20 A	12	400	0					--	20 A	Spare	20
21	Lighting	20 A	12			100	0			--	20 A	Spare	22
23	Lighting	20 A						0	0	--	20 A	Spare	24
25					0					--	20 A	Spare	26
27						0				--	20 A	Spare	28
29									0	--	20 A	Spare	30
31					0					--	20 A	Spare	32
33							0			--	20 A	Spare	34
35									0	--	20 A	Spare	36
37					0					--	20 A	Spare	38
39							0			--	20 A	Spare	40
41									0	--	20 A	Spare	42
				Total Load:	10500 VA	10654 VA		8366 VA					
				Total Amps:	90 A	92 A		70 A					
Legend:													
Load Classification				Connected Load		Demand Factor		Estimated...		Panel Totals			
HVAC				8320 VA		100.00%		8320 VA					
Lighting				600 VA		125.00%		750 VA		Total Conn. Load: 29520 VA			
Other				0 VA		0.00%		0 VA		Total Est. Demand: 29670 VA			
Power				19700 VA		100.00%		19700 VA		Total Conn.: 82 A			
Receptacle				900 VA		100.00%		900 VA		Total Est. Demand: 82 A			
HVAC Load				0 VA		0.00%		0 VA					
Notes:													



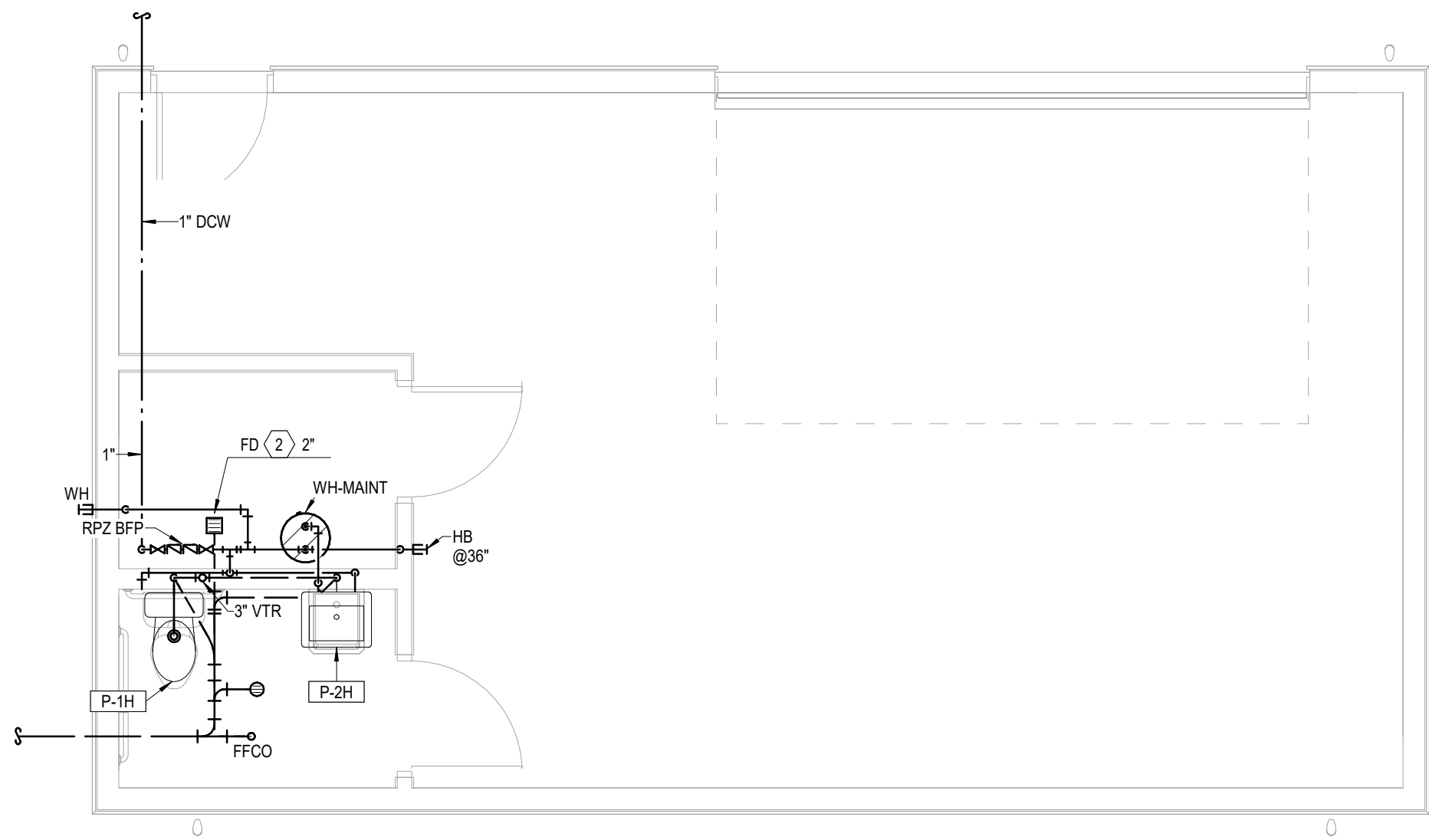
1 MAINTENANCE BLDG - ELECTRICAL
ELECTRICAL
1/4" = 1'-0"



4 ELECTRICAL RISER DIAGRAM
NOT TO SCALE



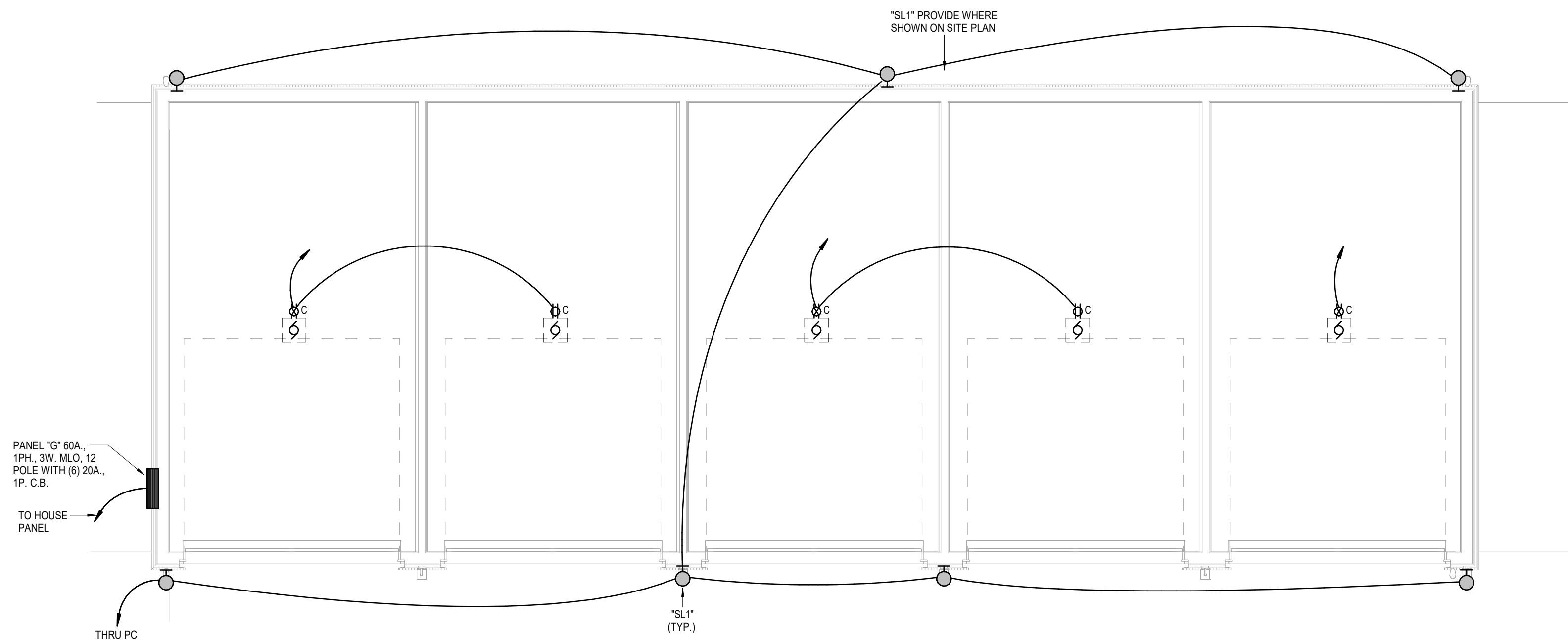
2 MAINTENANCE BLDG - HVAC
HVAC
1/4" = 1'-0"



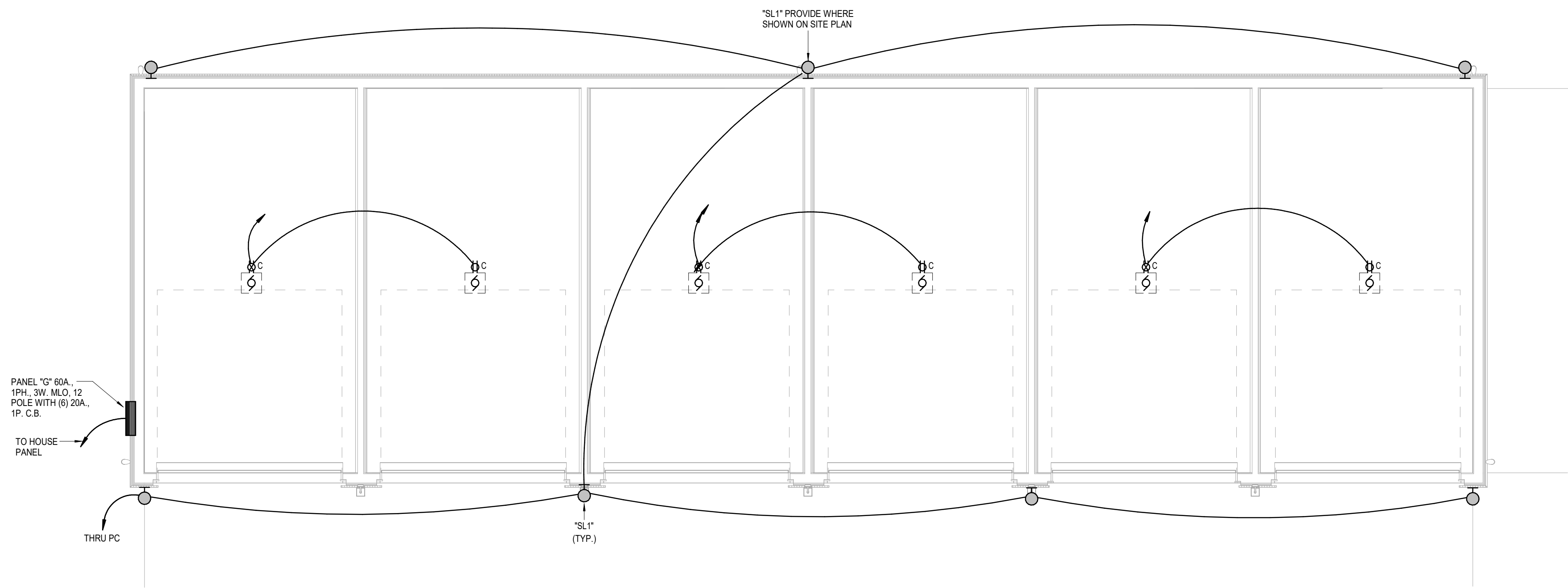
3 MAINTENANCE BLDG - PLUMBING
PLUMBING
1/4" = 1'-0"



9/16/2024



1 **GARAGE A - ELECTRICAL**
ELECTRICAL
1/4" = 1'-0"



2 **GARAGE B - ELECTRICAL**
ELECTRICAL
1/4" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

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09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522 DATE 09.16.2024
DRAWN BY Author
PERMIT SET

SHEET NAME
GARAGE PLANS

SHEET NO.

ME1.03

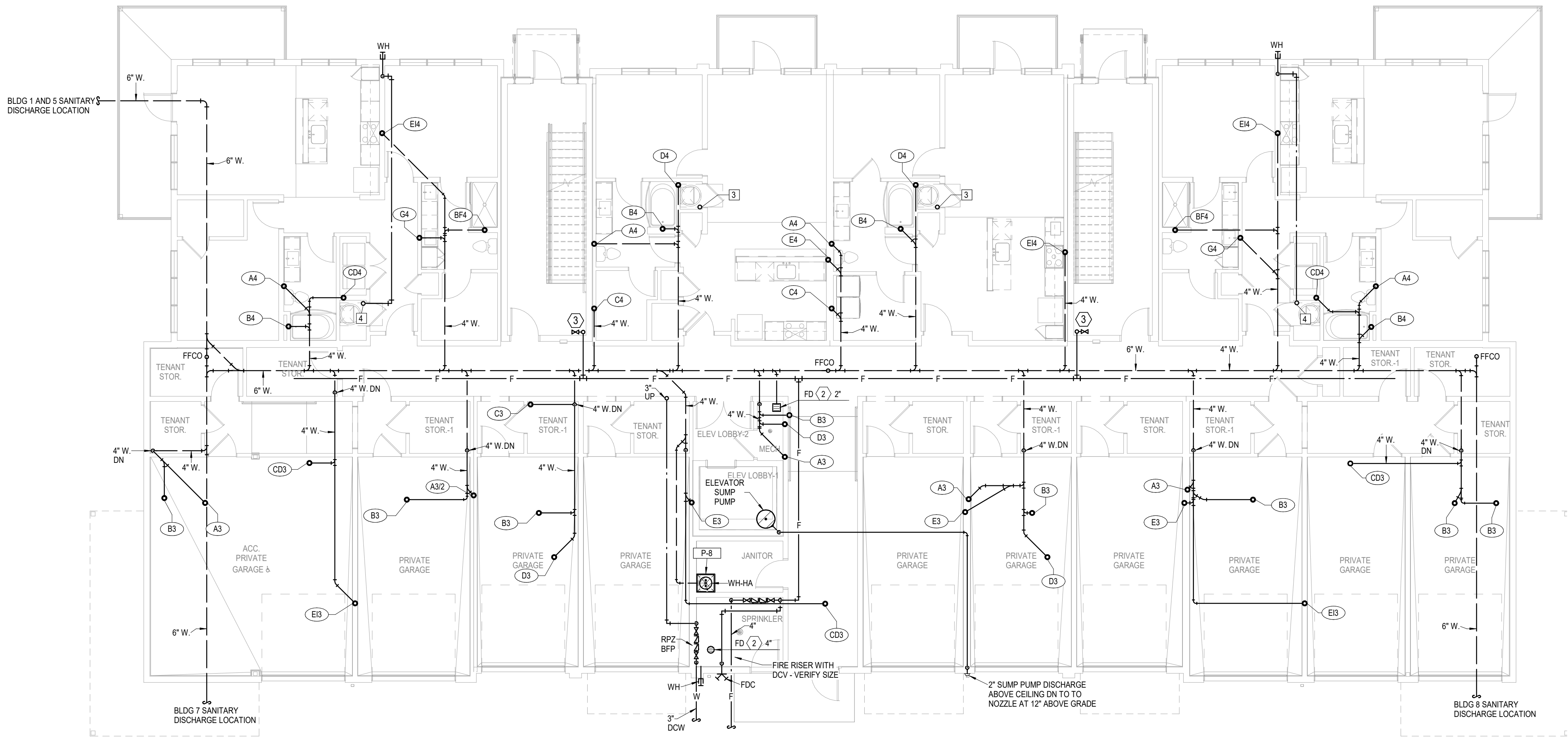
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027



9/16/2024

- PLUMBING NOTES:
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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - ② 3/4" CW UP TO ROOF HYDRANT.
 - ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 BUILDING A - 1ST FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

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REVISIONS

JOB NO. 720522
DATE 09.16.2024
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LSA PROJECT NO. 2404027

SHEET NAME
**BUILDING A - FIRST FLOOR
PLAN - PLUMBING**
SHEET NO.

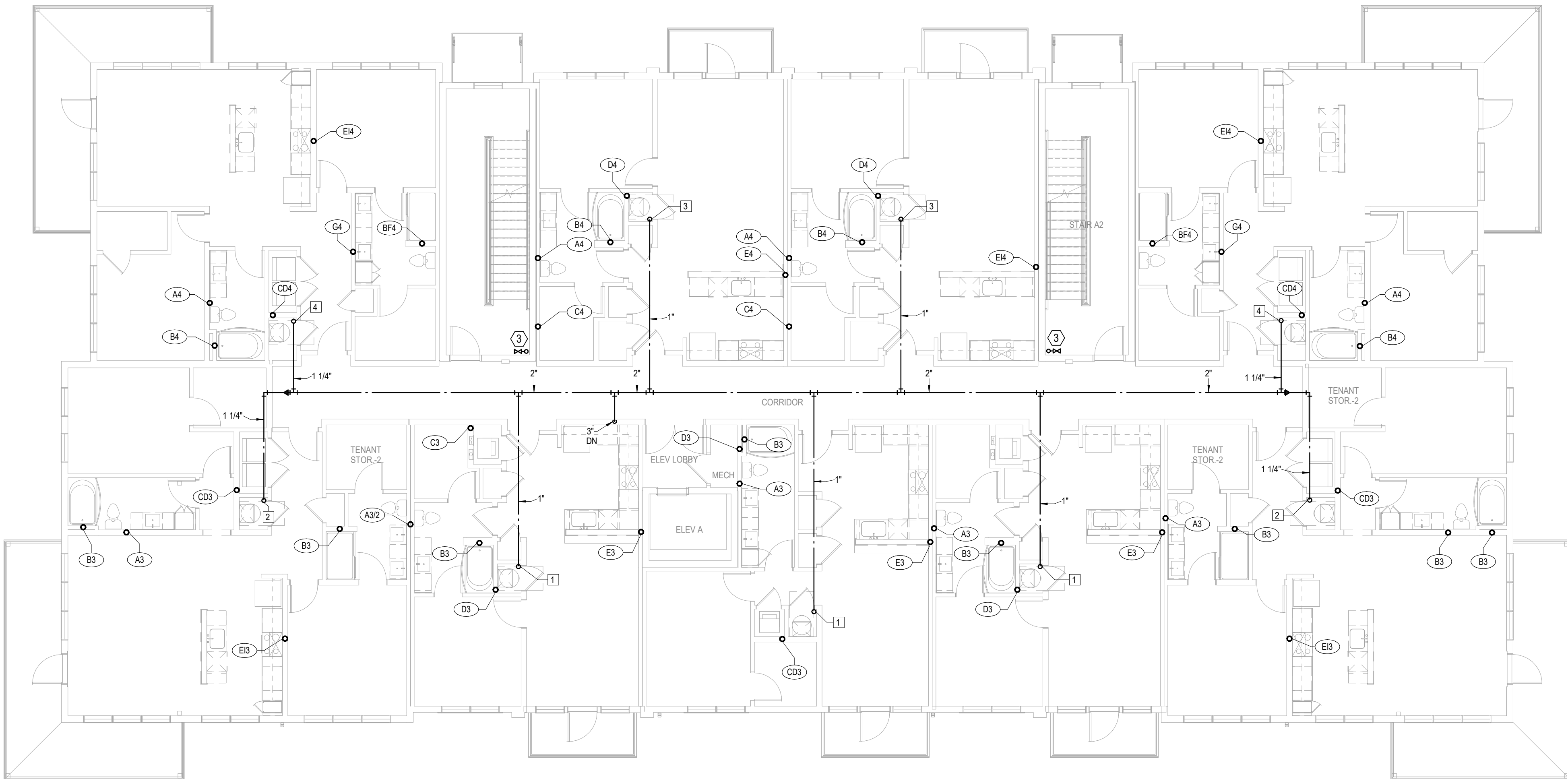
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9/16/2024

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1 BUILDING A - 2ND FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DATE 09.16.2024
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PERMIT SET

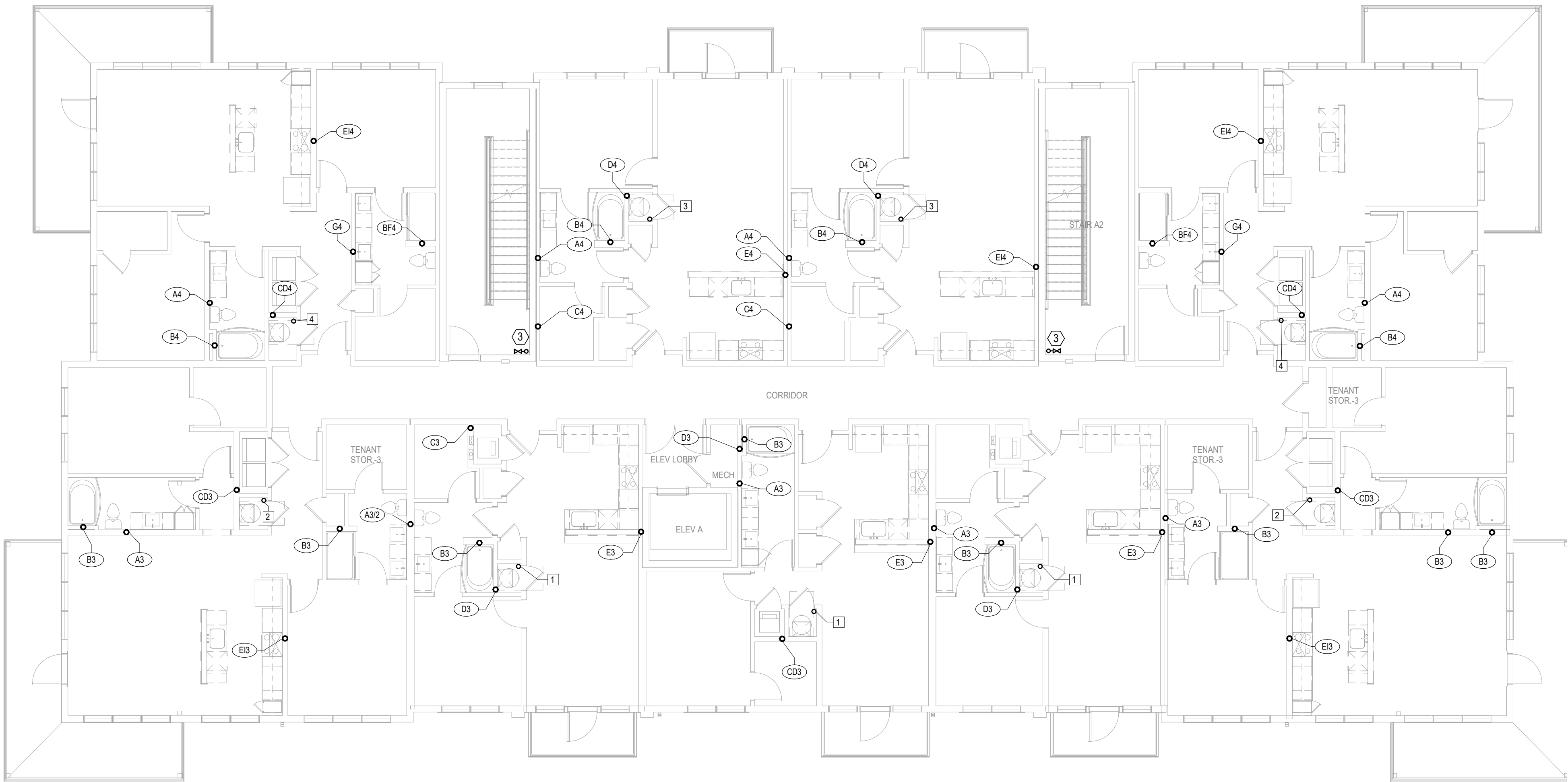
SHEET NAME
BUILDING A - SECOND
FLOOR PLAN - PLUMBING
SHEET NO.

P1.12

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LSA PROJECT NO. 2404027

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- LEGEND:
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 - ② 3/4" CW UP TO ROOF HYDRANT.
 - ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



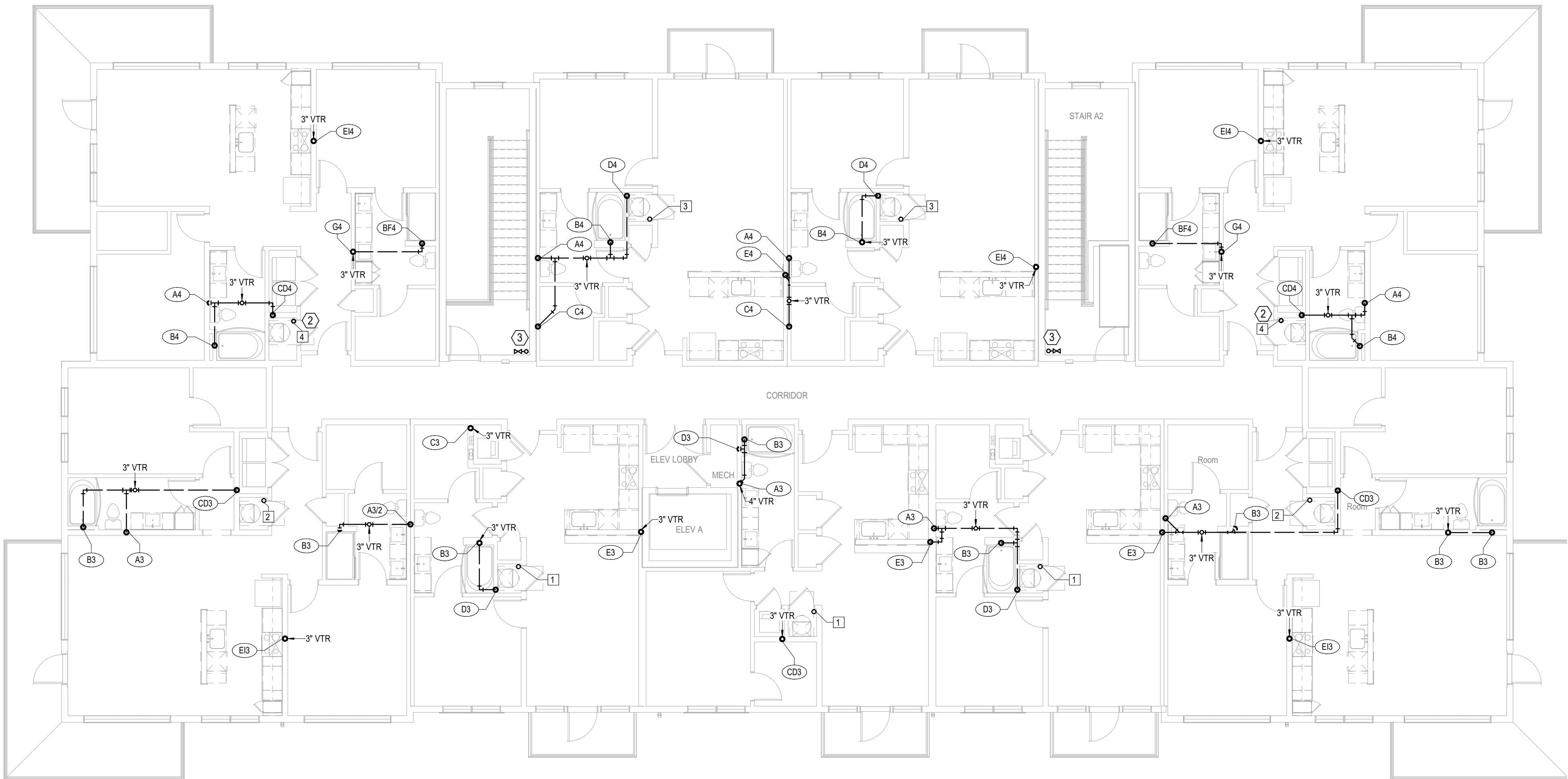
1 BUILDING A - 3RD FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)



9/16/2024

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- LEGEND:
- 1 PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - 2 3/4" CW UP TO ROOF HYDRANT.
 - 3 CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 BUILDING A - 4TH FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING A - FOURTH
FLOOR PLAN - PLUMBING
SHEET NO.

P1.14

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

- PLUMBING NOTES:
1.

COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.

ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3.

ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4.

ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5.

CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6.

ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
7.

THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8.

ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9.

SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10.

REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
11.

ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12.

ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13.

FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.
14.

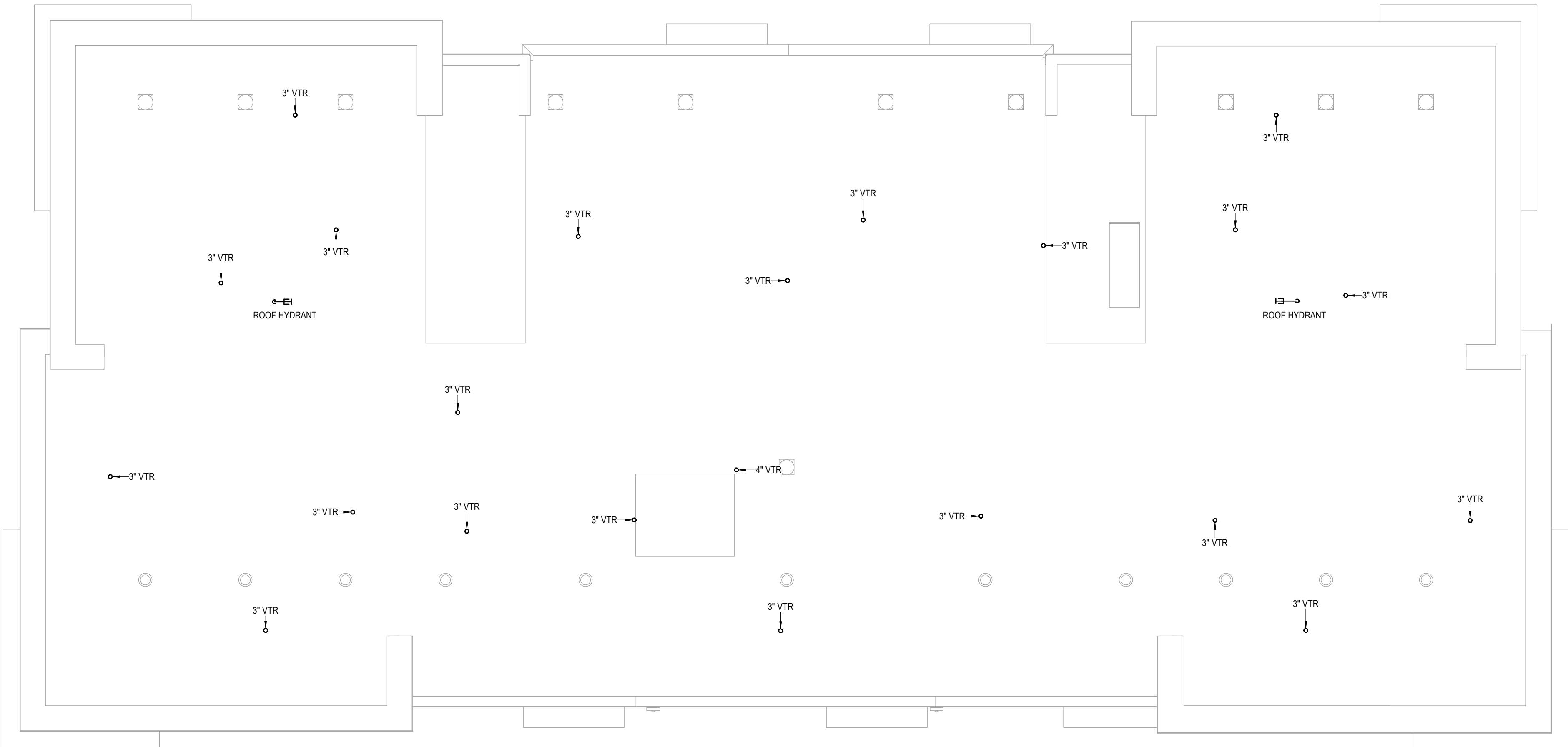
PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- ①

PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
- ②

3/4" CW UP TO ROOF HYDRANT.
- ③

CLASS 1 MANUAL STANDPIPE WITH VALVE.



1

BUILDING A - ROOF PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
• 09.16.24 PERMIT SET

△ REVISIONS

JOB NO.
720522

DRAWN BY
Author

PERMIT SET

SHEET NAME
BUILDING A - ROOF PLAN - PLUMBING

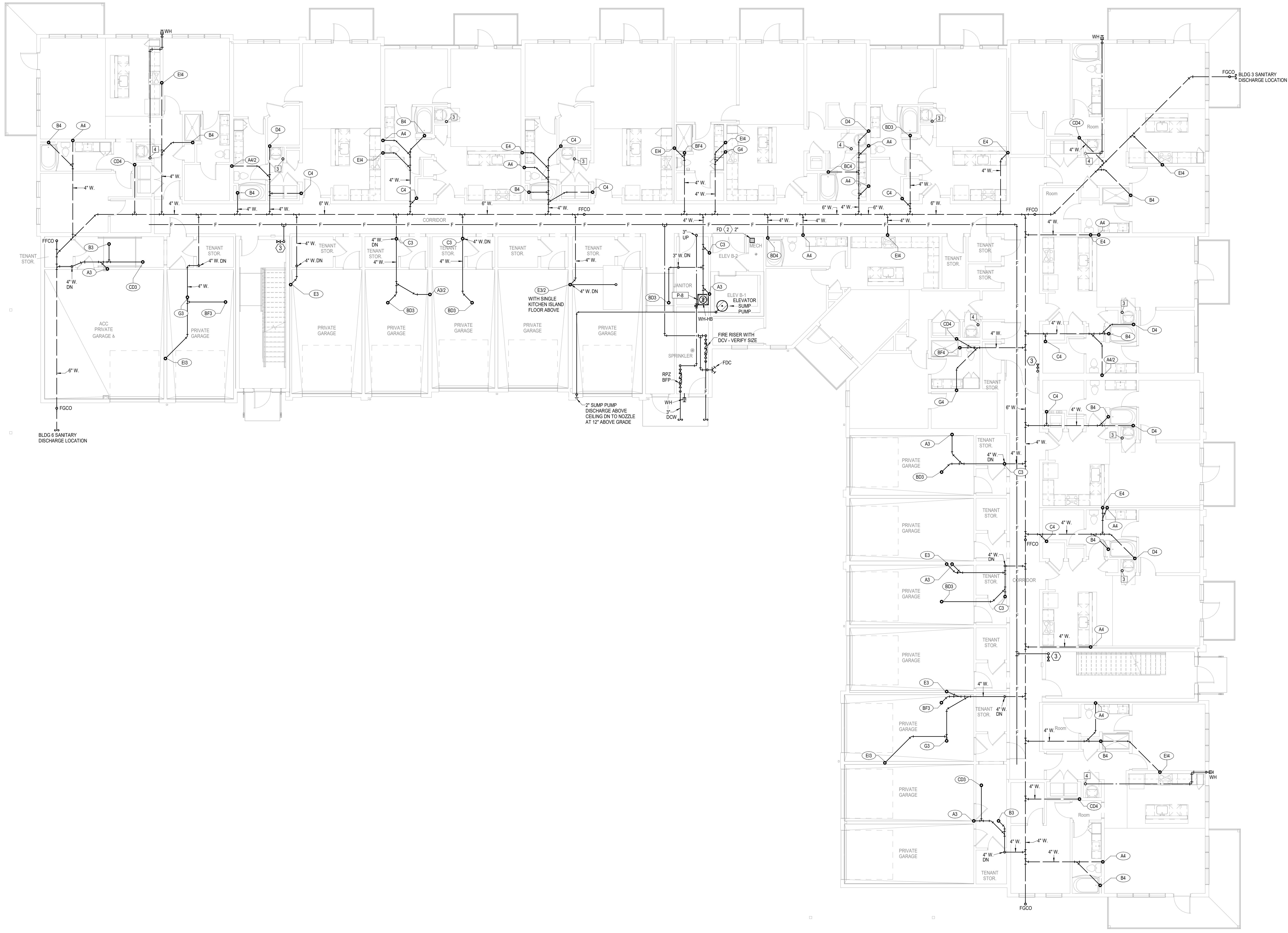
SHEET NO.

P1.15

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

ARCH E1 30' x 42'

9/13/2024 11:02:27 AM



- PLUMBING NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 - ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
 - ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
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 - ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
 - THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 - ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 - SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 - REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
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 - ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 - FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.
 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:**
- (1) PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - (2) 3/4" CW UP TO ROOF HYDRANT.
 - (3) CLASS 1 MANUAL STANDPIPE WITH VALVE.

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STATE OF MISSOURI
Professional Engineer
9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

1 BUILDING B - 1ST FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 3, 6)

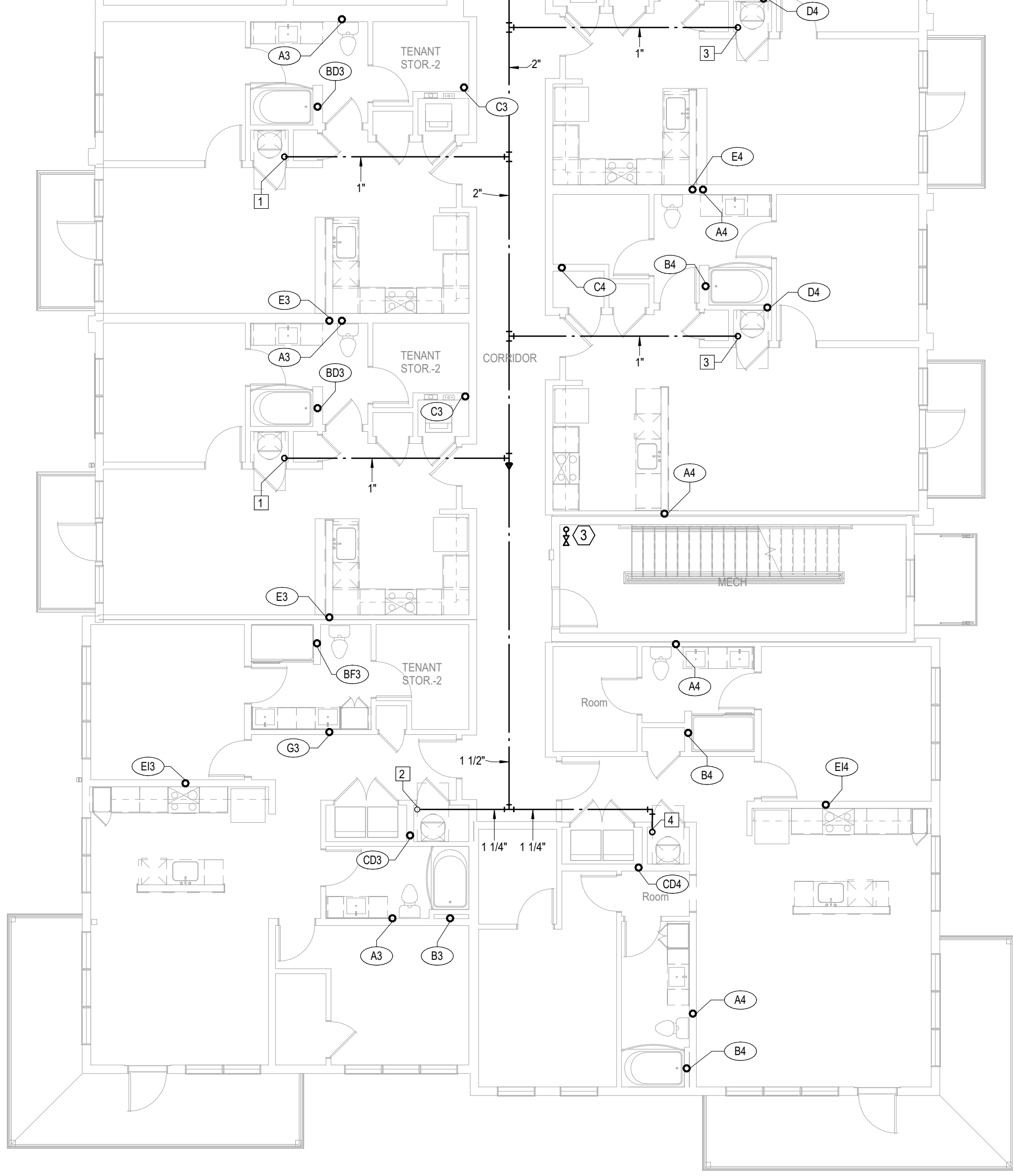
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LSA PROJECT NO. 2404027

JOB NO.
720522
DRAWN BY
Author
PERMIT SET

DATE
09.16.2024

SHEET NAME
**BUILDING B - FIRST FLOOR
PLAN - PLUMBING**
SHEET NO.
P1.21

REVISIONS



- | LEGEND: | |
|---------|--|
| ① | PROVIDE HUB DRAIN IN MECHANICAL CLOSETS. |
| ② | 3/4" CW UP TO ROOF HYDRANT. |
| ③ | CLASS 1 MANUAL STANDPIPE WITH VALVE. |



A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

△ REVISIONS

JOB NO. **720522** DATE **09.16.2024**
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PERMIT SET

SHEET NAME
**BUILDING B - SECOND
FLOOR PLAN - PLUMBING**
SHEET NO.

SHEET NO.
P1.22

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027



- PLUMBING NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 - ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:**
- PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - 3/4" CW UP TO ROOF HYDRANT.
 - CLASS 1 MANUAL STANDPIPE WITH VALVE.

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STATE OF MISSOURI
Professional Engineer
9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

1 BUILDING B - 3RD FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 3, 6)

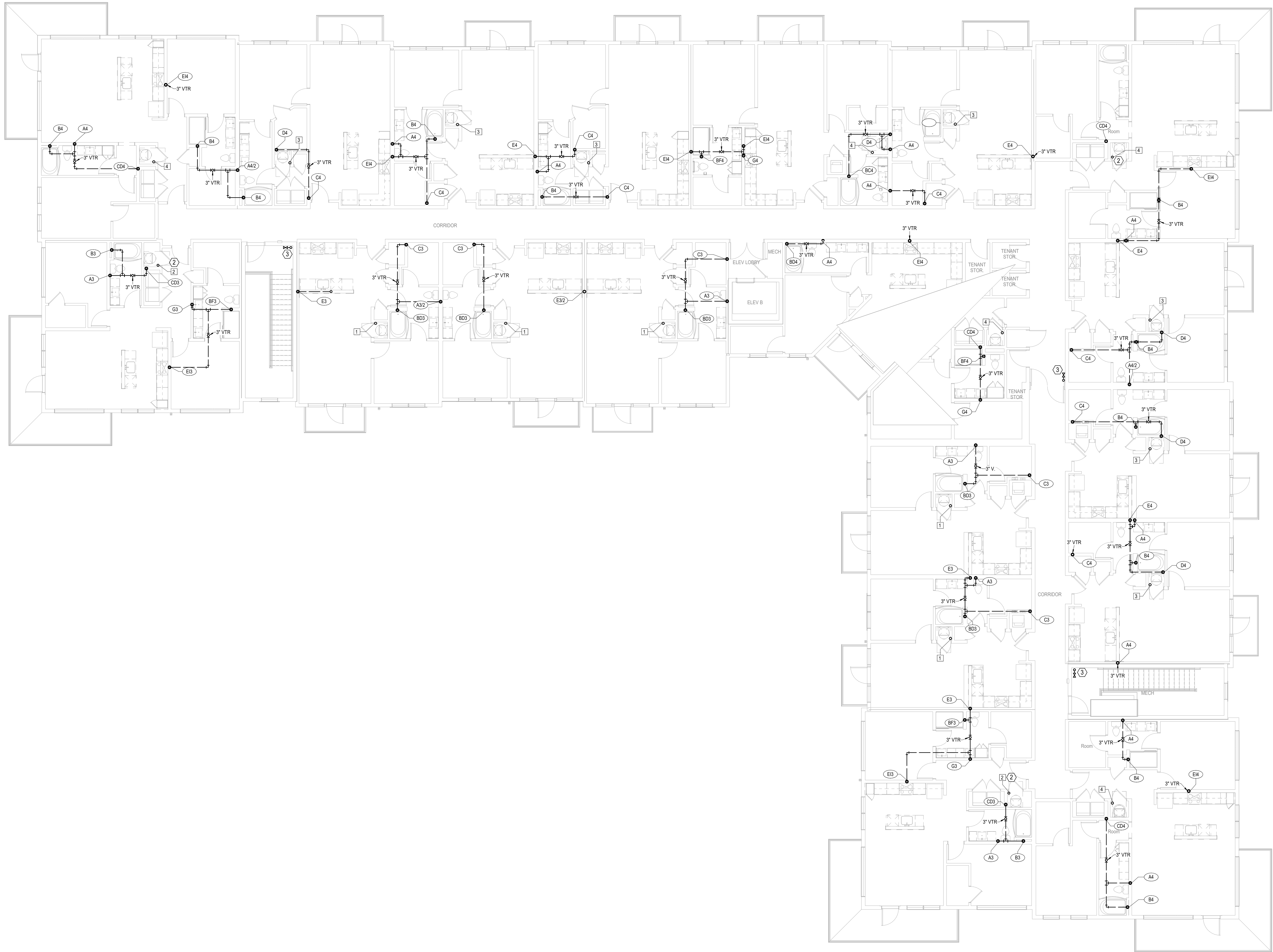
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LSA PROJECT NO. 2404027

SHEET NAME
**BUILDING B - THIRD FLOOR
PLAN - PLUMBING**

SHEET NO.
P1.23



- PLUMBING NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
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 - ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 - FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.
 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:**
- 1 PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - 2 3/4" CW UP TO ROOF HYDRANT.
 - 3 CLASS 1 MANUAL STANDPIPE WITH VALVE.

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KANSAS. 66207

STATE OF MISSOURI
Professional Engineer
9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

1 BUILDING B - 4TH FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 3, 6)

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JOB NO.
720522
DATE
09.16.2024
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Author
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SHEET NAME
**BUILDING B - FOURTH
FLOOR PLAN - PLUMBING**
SHEET NO.
P1.24



- PLUMBING NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:**
- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - ② 3/4" CW UP TO ROOF HYDRANT.
 - ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.

1 BUILDING B - ROOF PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 3, 6)

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING B - ROOF PLAN -
PLUMBING
SHEET NO.

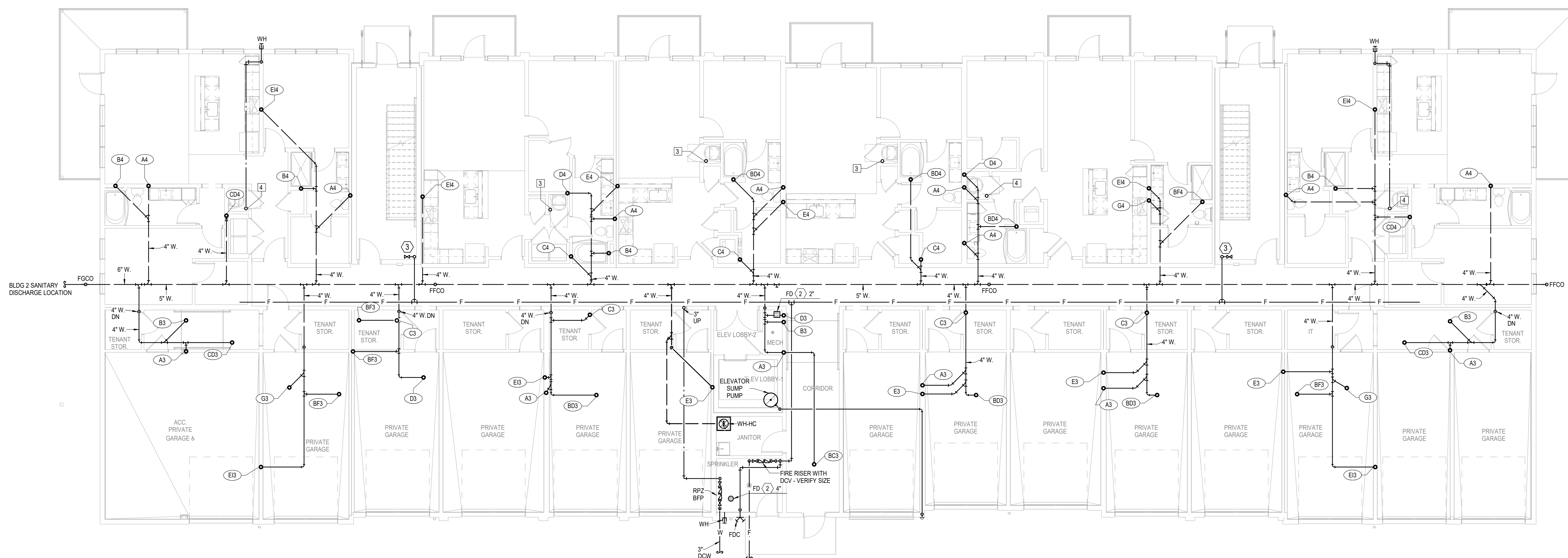
P1.25

9/16/2024

- | PLUMBING NOTES: | |
|-----------------|---|
| 1. | COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING. |
| 2. | ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE. |
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| 5. | CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. |
| 6. | ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES. |
| 7. | THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS. |
| 8. | ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE. |
| 9. | SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS. |
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| 14. | PROVIDE HUB DRAIN IN MECHANICAL CLOSETS. |

LEGEND:

- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS
- ② 3/4" CW UP TO ROOF HYDRANT.
- ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 BUILDING C - 1ST FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 2, 4)

**A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI**

DRAWING RELEASE LOG
● 09.16.24 PERMIT SET

△ REVISIONS

JOB NO. **720522** DATE **09.16.2024**
DRAWN BY **Author**
PERMIT SET

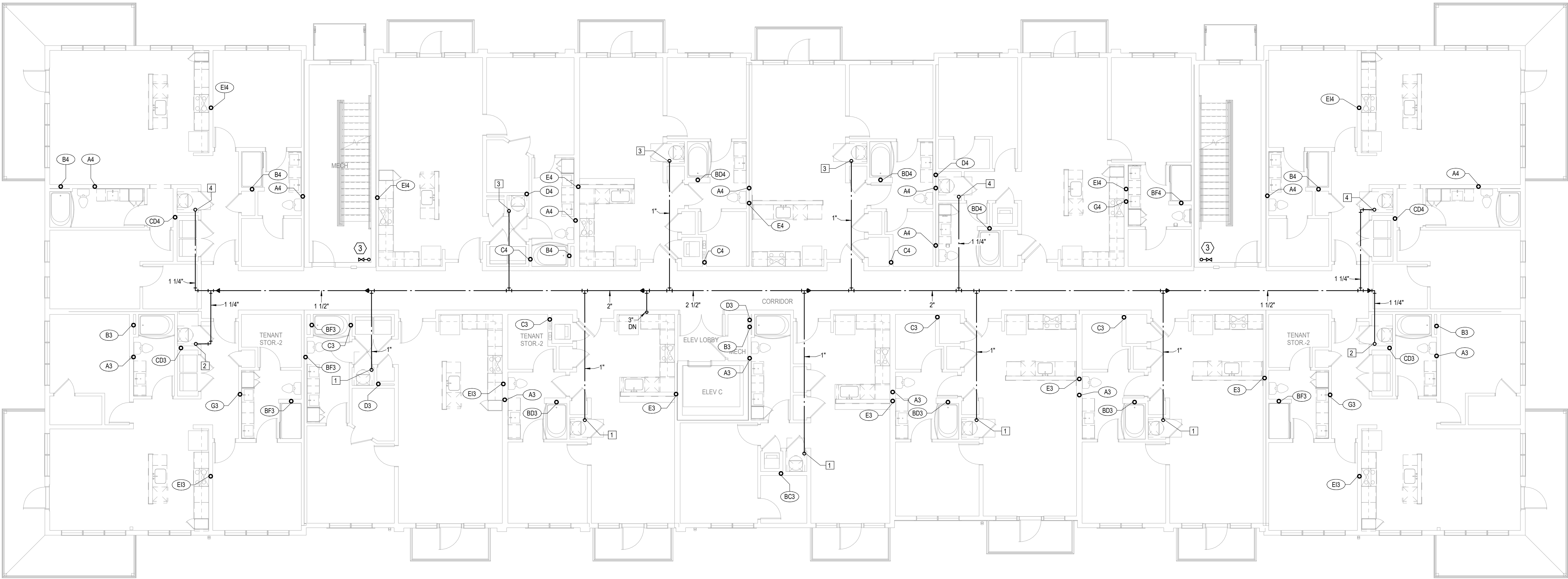
SHEET NAME
**BUILDING C - FIRST FLOOR
PLAN - PLUMBING**
SHEET NO.

P1.31



- PLUMBING NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - ② 3/4" CW UP TO ROOF HYDRANT.
 - ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 **BUILDING C - 2ND FLOOR PLAN**
PLUMBING
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING C - SECOND
FLOOR PLAN - PLUMBING
SHEET NO.

P1.32

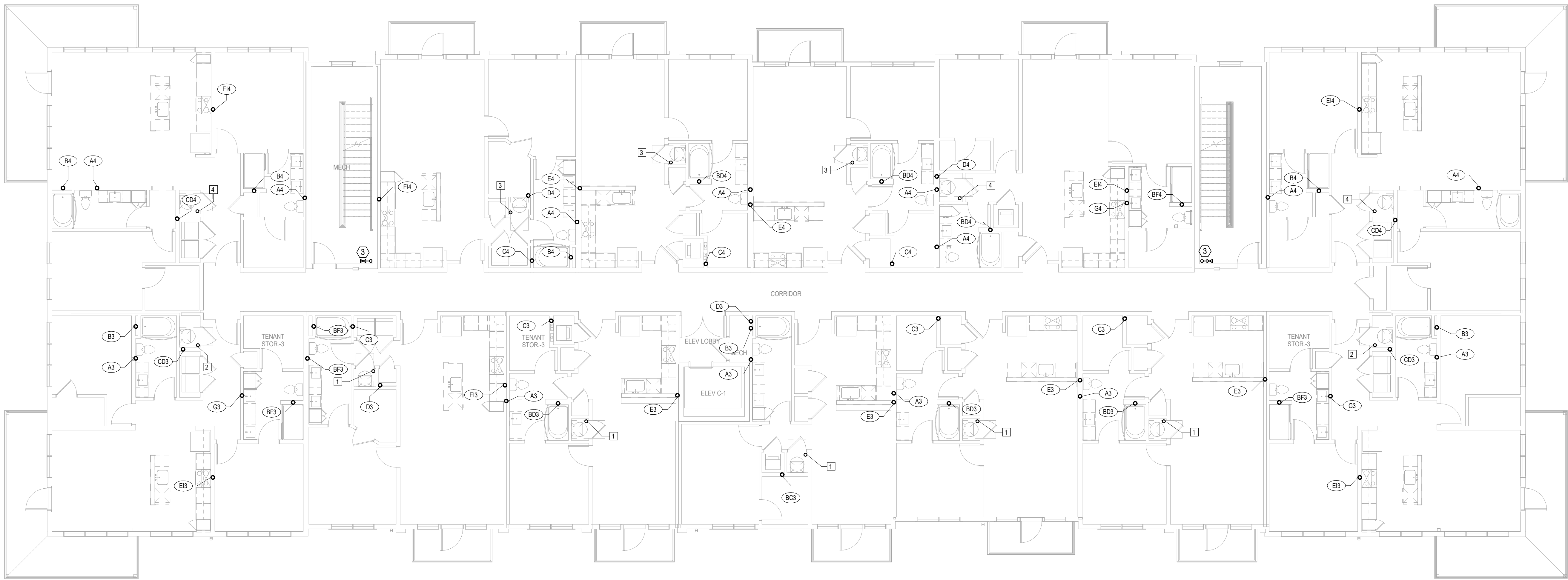
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LSA PROJECT NO. 2404027



9/16/2024

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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - ② 3/4" CW UP TO ROOF HYDRANT.
 - ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 BUILDING C - 3RD FLOOR PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

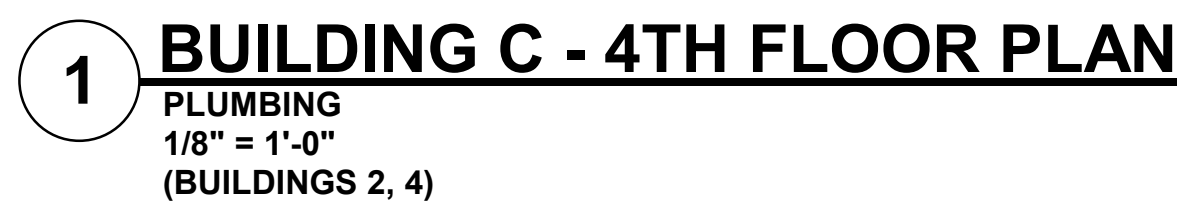
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720522
DATE
09.16.2024
DRAWN BY
Author
PERMIT SET



SHEET NAME
BUILDING C - THIRD FLOOR
PLAN - PLUMBING
SHEET NO.

P1.33



PLUMBING NOTES:	
1.	COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.	ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3.	ANY BELOW SLAB SUMP PIPING SHALL BE PEX WITH NO JOINTS.
4.	ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5.	CONNECT ALL APPLIANCES OR EQUIPMENT 1" PER MANUFACTURER'S INSTRUCTIONS.
6.	ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
7.	THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
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14.	PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

LEGEND:	
①	PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
②	34" CW UP TO ROOF HYDRANT.
③	CLASS 1 MANUAL STANDPIPE WITH VALVE.

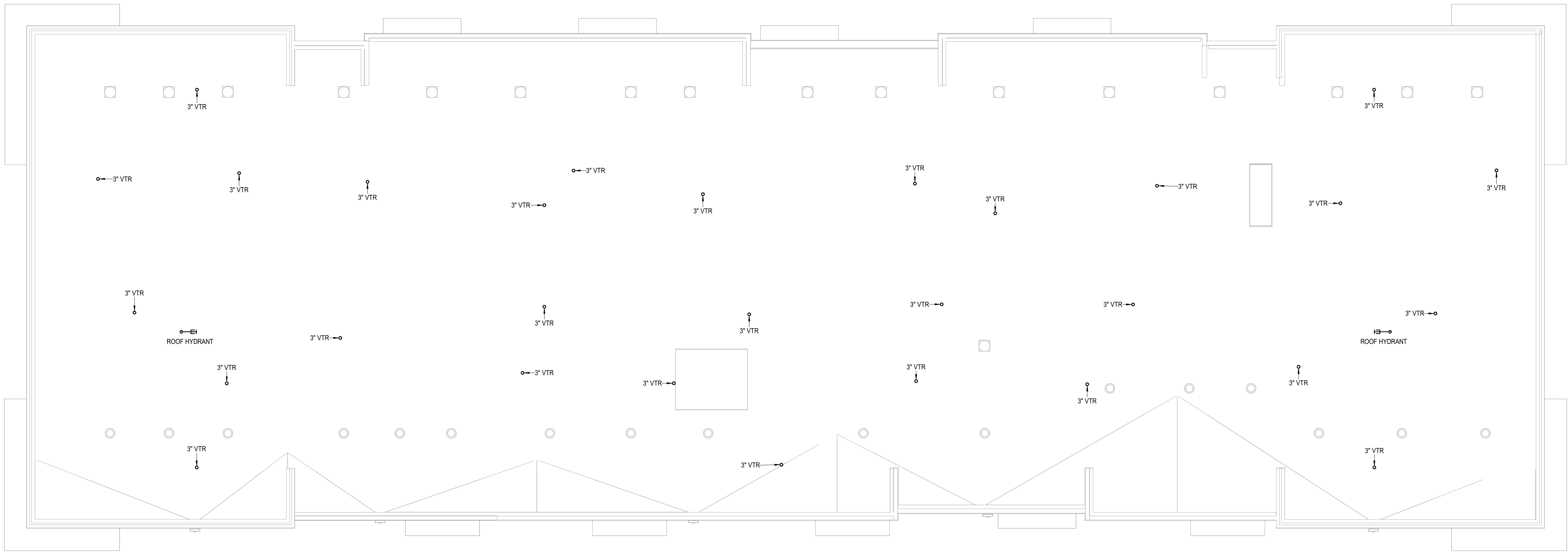
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Telephone: (785) 233-3232
Email: lsaa@lsaa.com
LSA PROJECT NO. 2044027

- PLUMBING NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 - ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
 - ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
 - CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
 - ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
 - THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 - ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 - SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 - REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
 - ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 - ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 - FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.
 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - ② 3/4" CW UP TO ROOF HYDRANT.
 - ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 BUILDING C - ROOF PLAN
PLUMBING
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522
DRAWN BY
Author
PERMIT SET

SHEET NAME
BUILDING C - ROOF PLAN - PLUMBING
SHEET NO.

P1.35

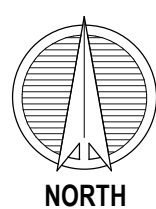
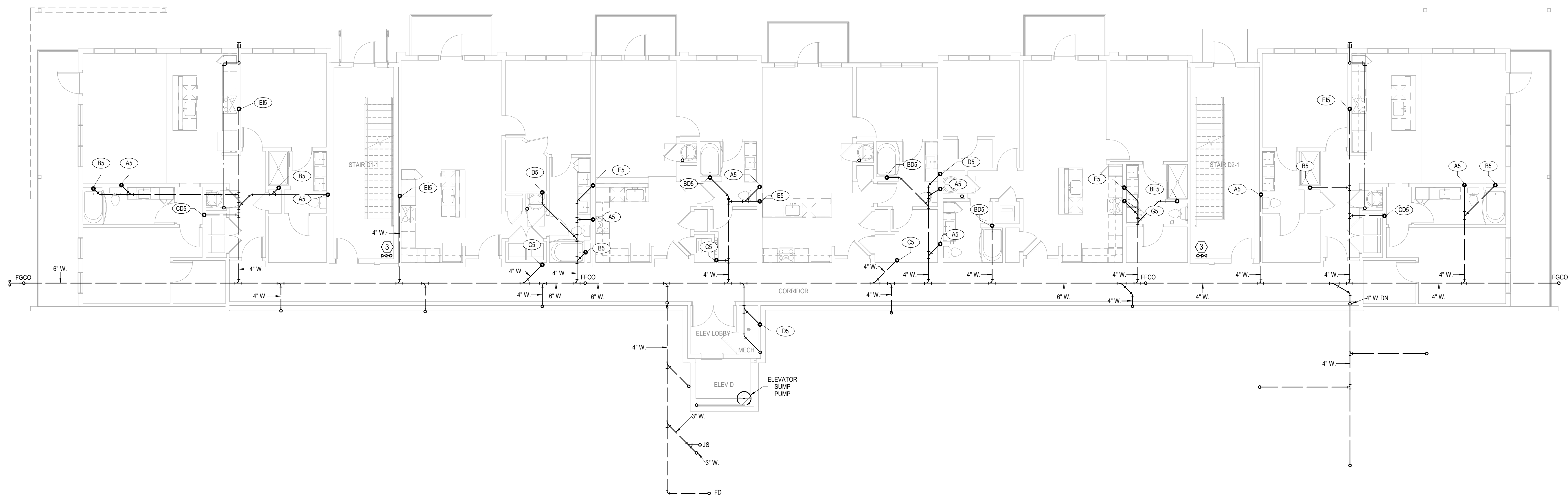
LS&A
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& Associates P.A.
CONSULTING ENGINEERS
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6025 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (765) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

9/16/2024

- | PLUMBING NOTES: | |
|-----------------|---|
| 1. | COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING. |
| 2. | ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE. |
| 3. | ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. |
| 4. | ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE. |
| 5. | CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. |
| 6. | ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES. |
| 7. | THERE SHALL NOT BE PVC WITHIN RETURN AIR PLENUMS. |
| 8. | ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE. |
| 9. | SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS. |
| 10. | REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE. |
| 11. | ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS. |
| 12. | ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT. |
| 13. | FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES. |
| 14. | PROVIDE HUB DRAIN IN MECHANICAL CLOSETS. |

LEGEND:

- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS
- ② 3/4" CW UP TO ROOF HYDRANT.
- ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 BUILDING D - BASEMENT FLOOR PLAN
PLUMBING
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
● 09.16.24 PERMIT SET

△ REVISIONS

JOB NO. **720522** DATE **09.16.2024**
DRAWN BY **Author**
PERMIT SET

SHEET NAME
**BUILDING D - BASEMENT
FLOOR PLAN - PLUMBING**
SHEET NO.

P1.40

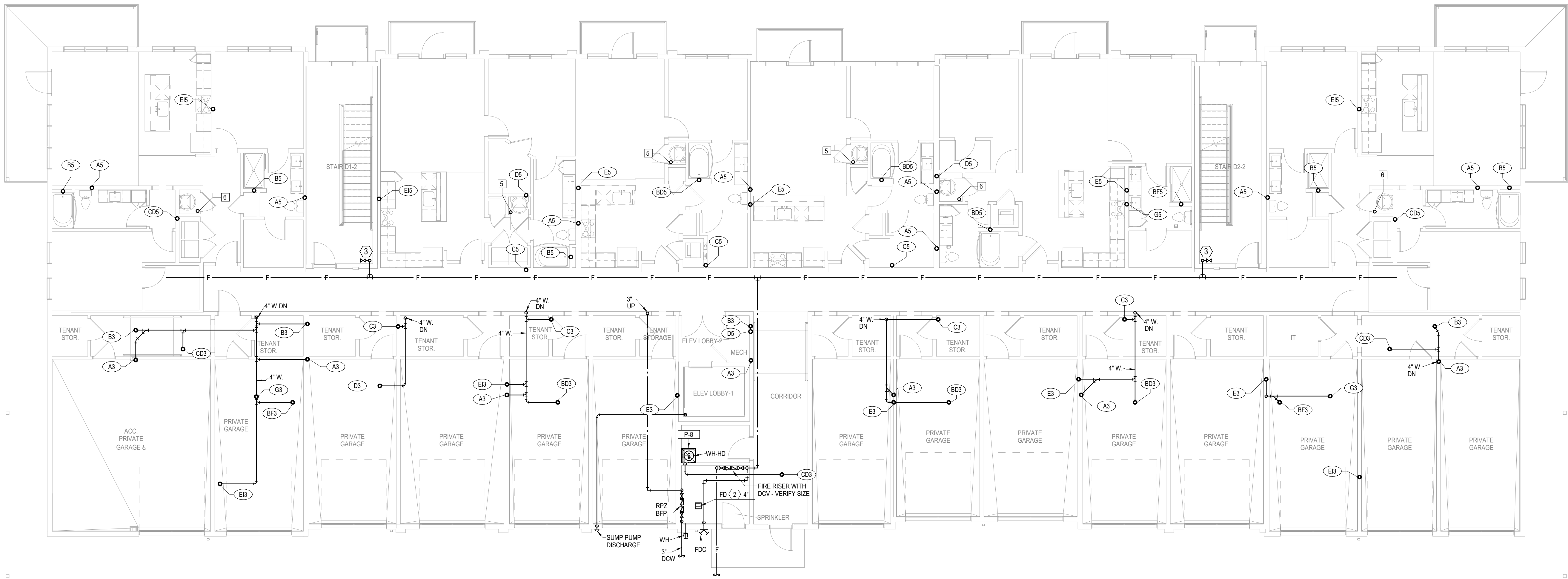




9/16/2024

- PLUMBING NOTES:
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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - 3/4" CW UP TO ROOF HYDRANT.
 - CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 **BUILDING D - 1ST FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DATE 09.16.2024
DRAWN BY Author
PERMIT SET

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

SHEET NAME
**BUILDING D - FIRST FLOOR
PLAN - PLUMBING**
SHEET NO.

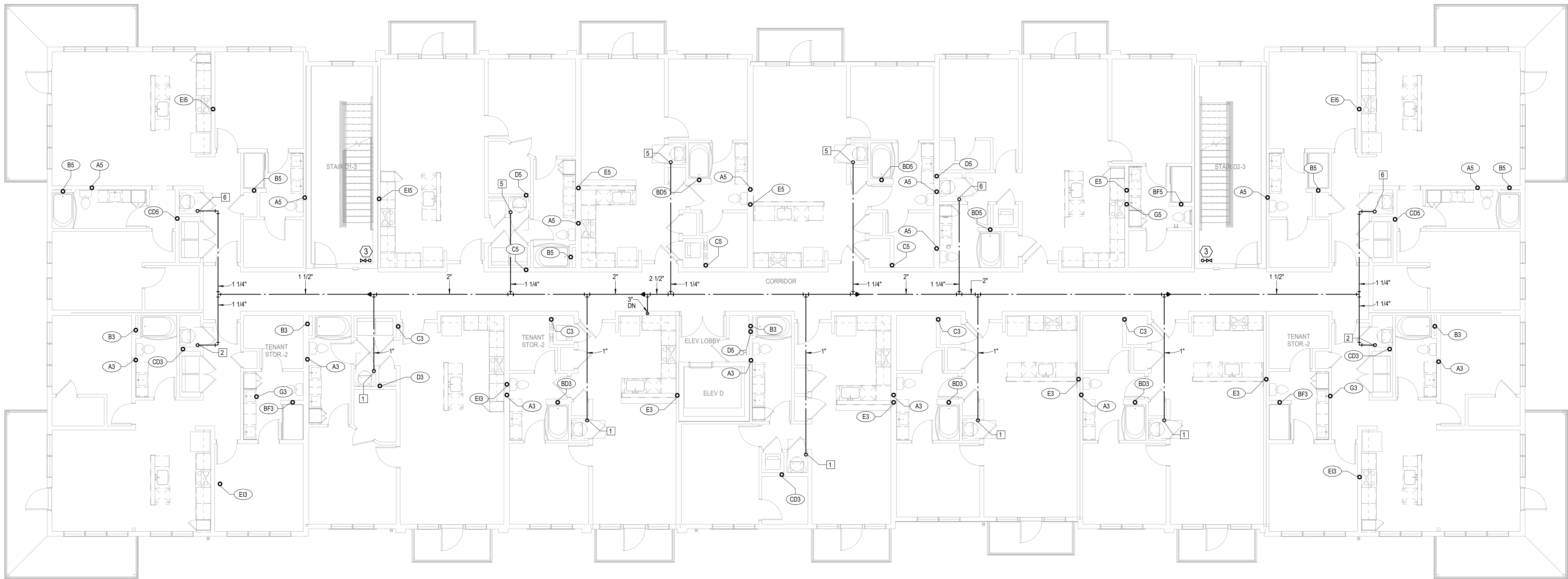
P1.41

ARCH E1 30' x 42'

9/12/2024 4:51:17 PM

- PLUMBING NOTES:
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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- 1) PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - 2) 3/4" CW UP TO ROOF HYDRANT.
 - 3) CLASS 1 MANUAL STANDPIPE WITH VALVE.



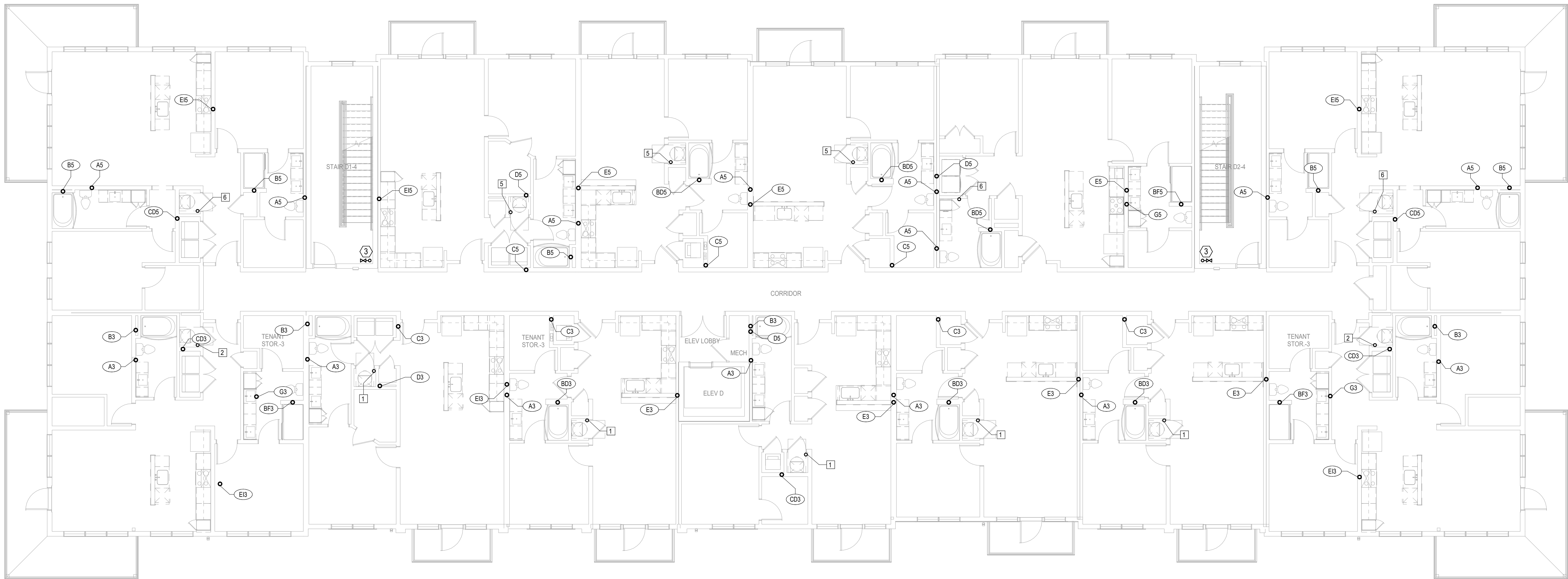
1 **BUILDING D - 2ND FLOOR PLAN**
PLUMBING
1/8" = 1'-0"



9/16/2024

- PLUMBING NOTES:
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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- 1 PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - 2 3/4" CW UP TO ROOF HYDRANT.
 - 3 CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 BUILDING D - 3RD FLOOR PLAN
PLUMBING
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DATE 09.16.2024
DRAWN BY Author
PERMIT SET

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

SHEET NAME
BUILDING D - THIRD FLOOR
PLAN - PLUMBING
SHEET NO.

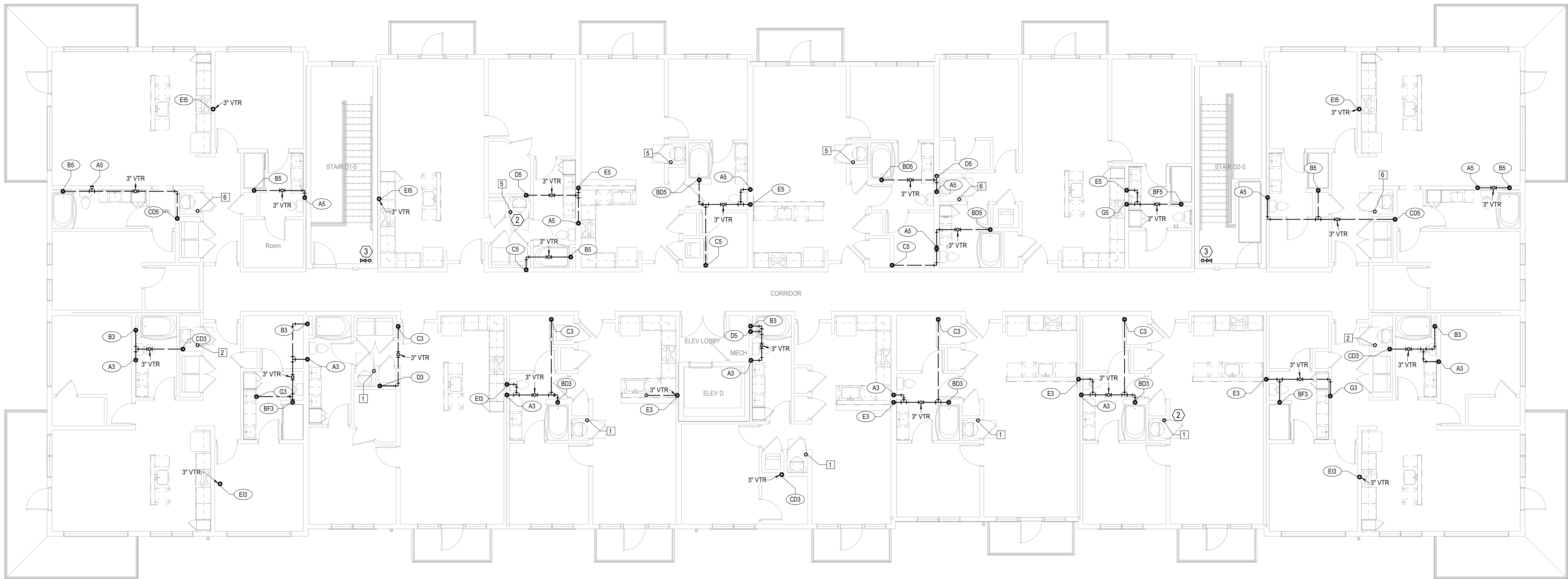
P1.43



9/16/2024

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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- 1) PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - 2) 3/4" CW UP TO ROOF HYDRANT.
 - 3) CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 **BUILDING D - 4TH FLOOR PLAN**
PLUMBING
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING D - FOURTH
FLOOR PLAN - PLUMBING
SHEET NO.

P1.44

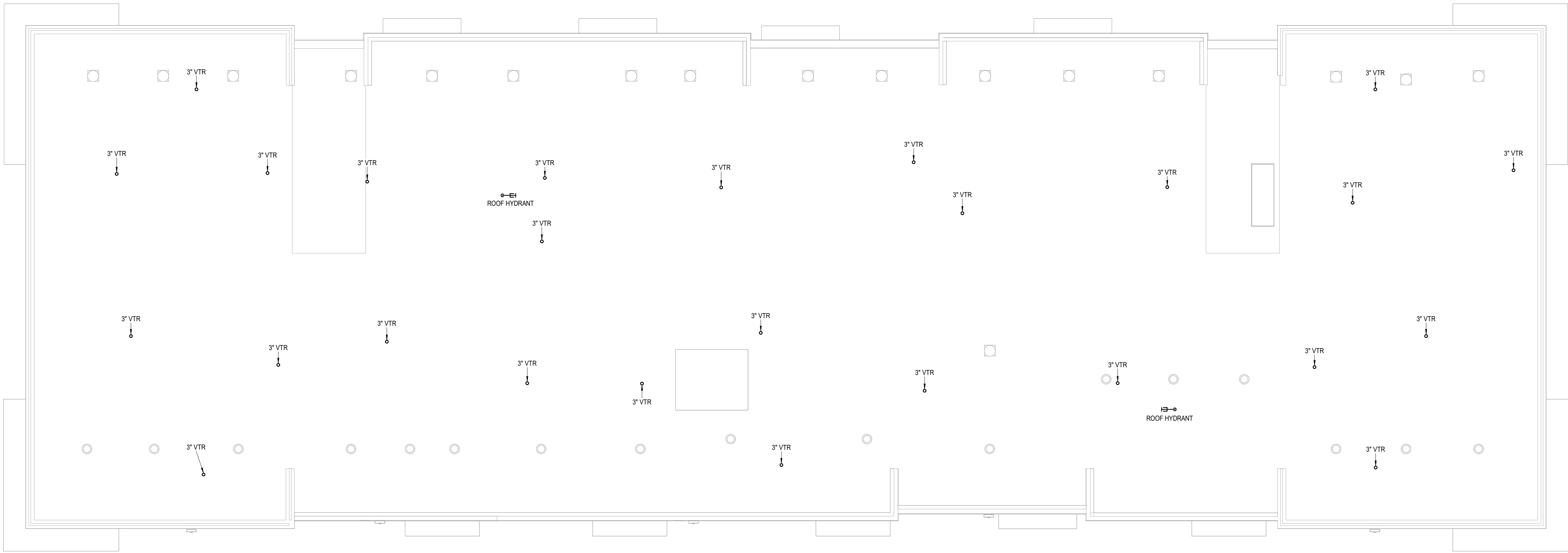
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LSA PROJECT NO. 2404027



9/16/2024

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 - PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.

- LEGEND:
- ① PROVIDE HUB DRAIN IN MECHANICAL CLOSETS.
 - ② 3/4" CW UP TO ROOF HYDRANT.
 - ③ CLASS 1 MANUAL STANDPIPE WITH VALVE.



1 **BUILDING D - ROOF PLAN**
PLUMBING
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

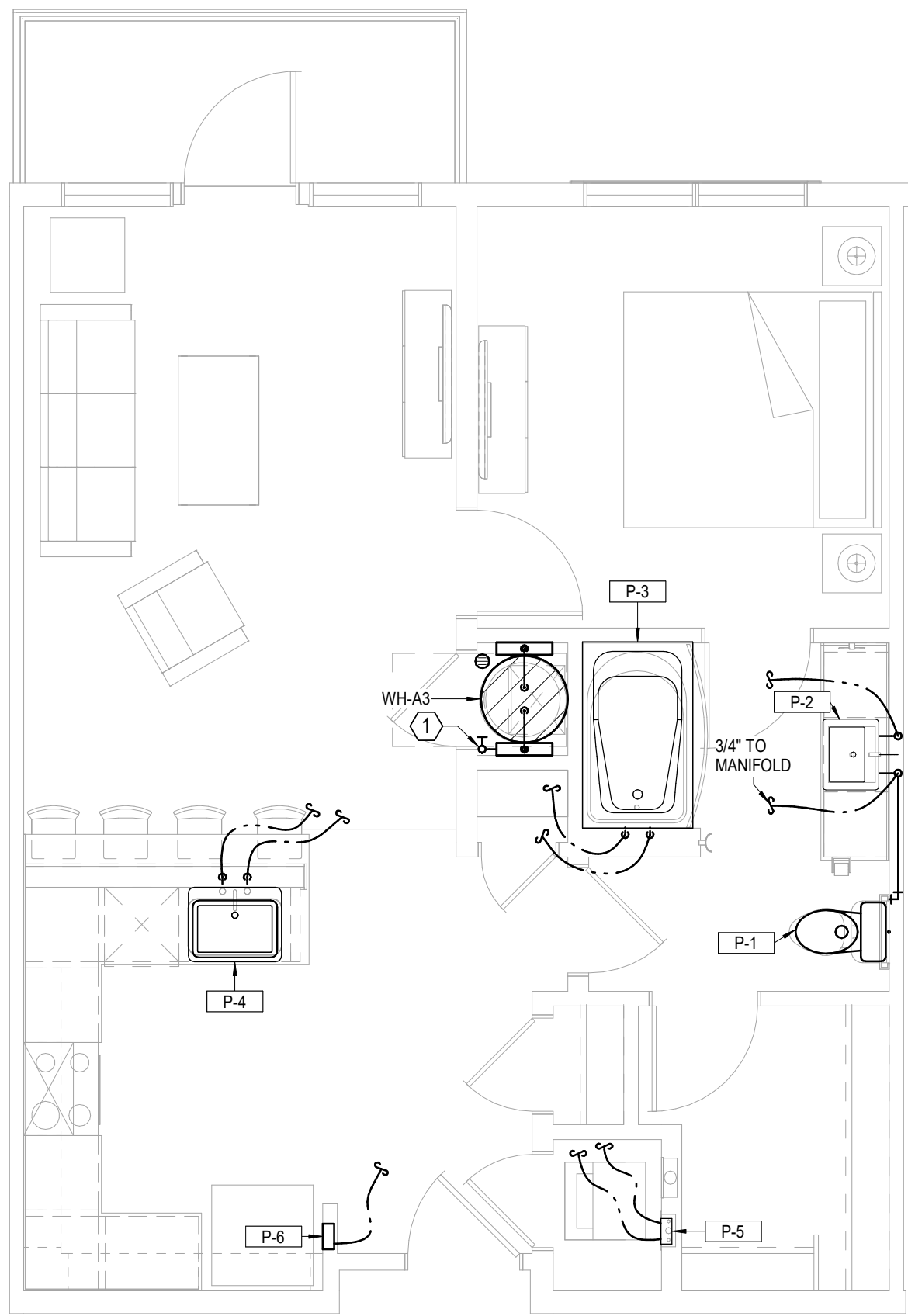
REVISIONS

JOB NO. 720522
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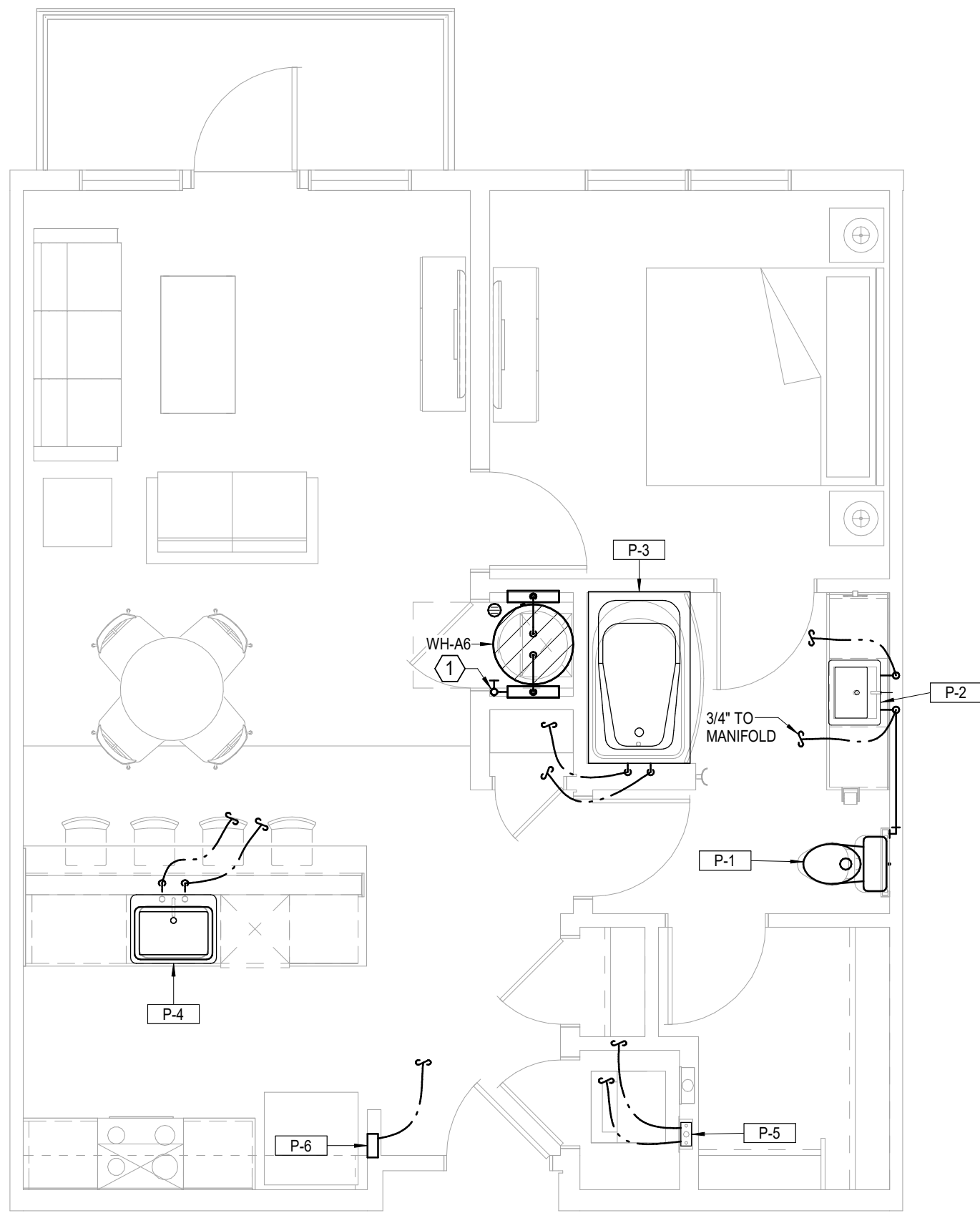
SHEET NAME
BUILDING D - ROOF PLAN - PLUMBING
SHEET NO.

P1.45

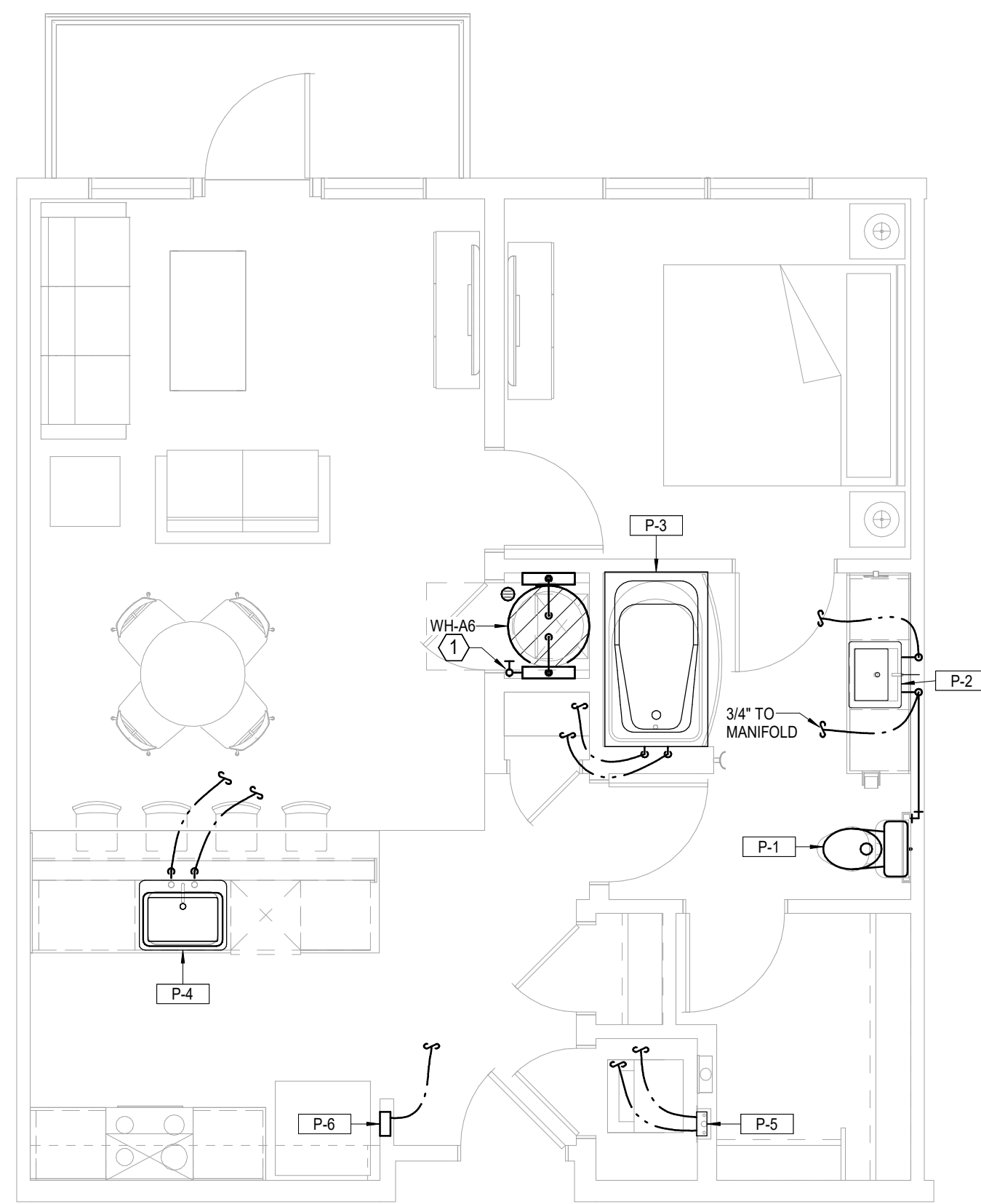




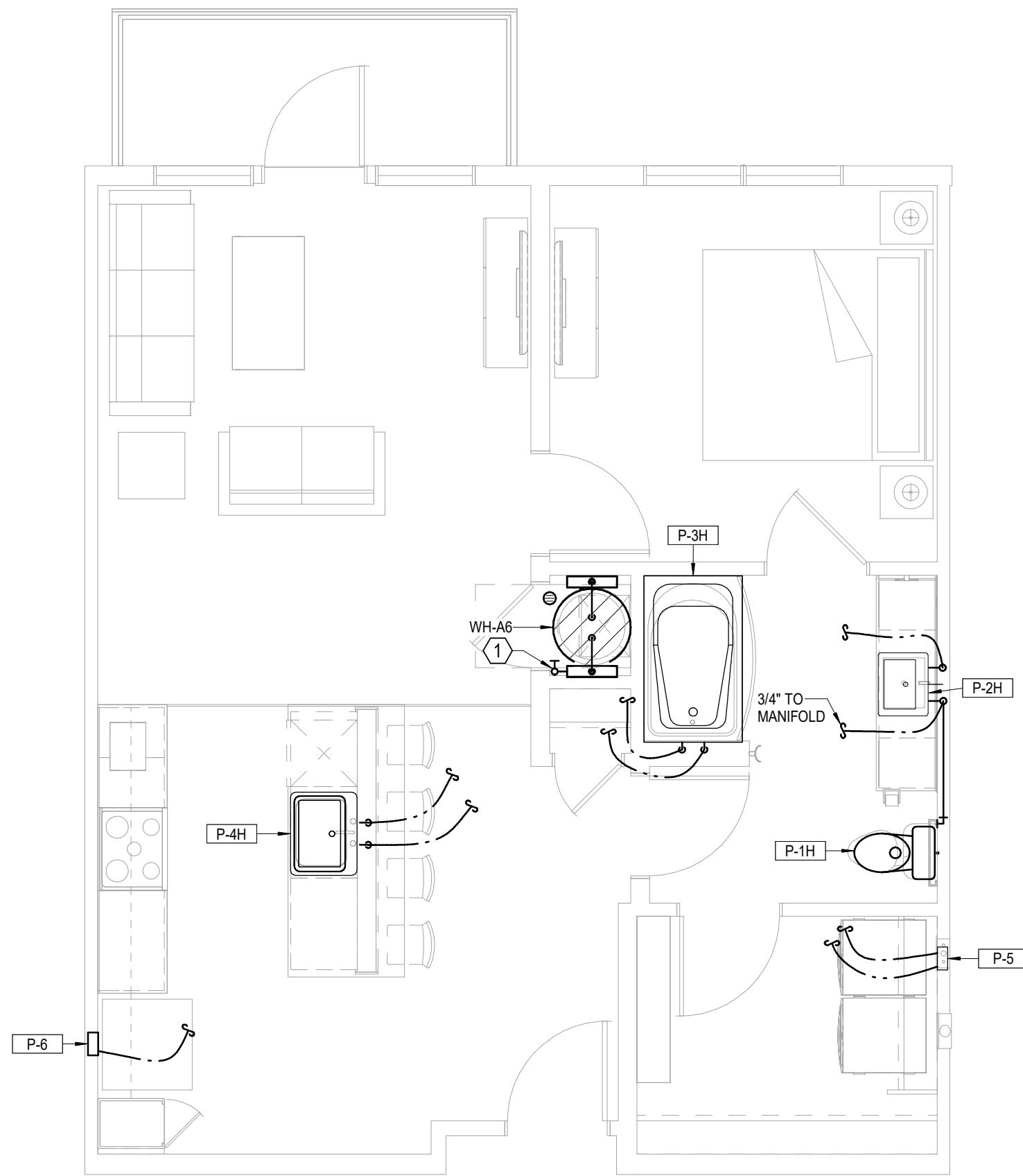
1 **UNIT A3**
PLUMBING
1/4" = 1'-0"



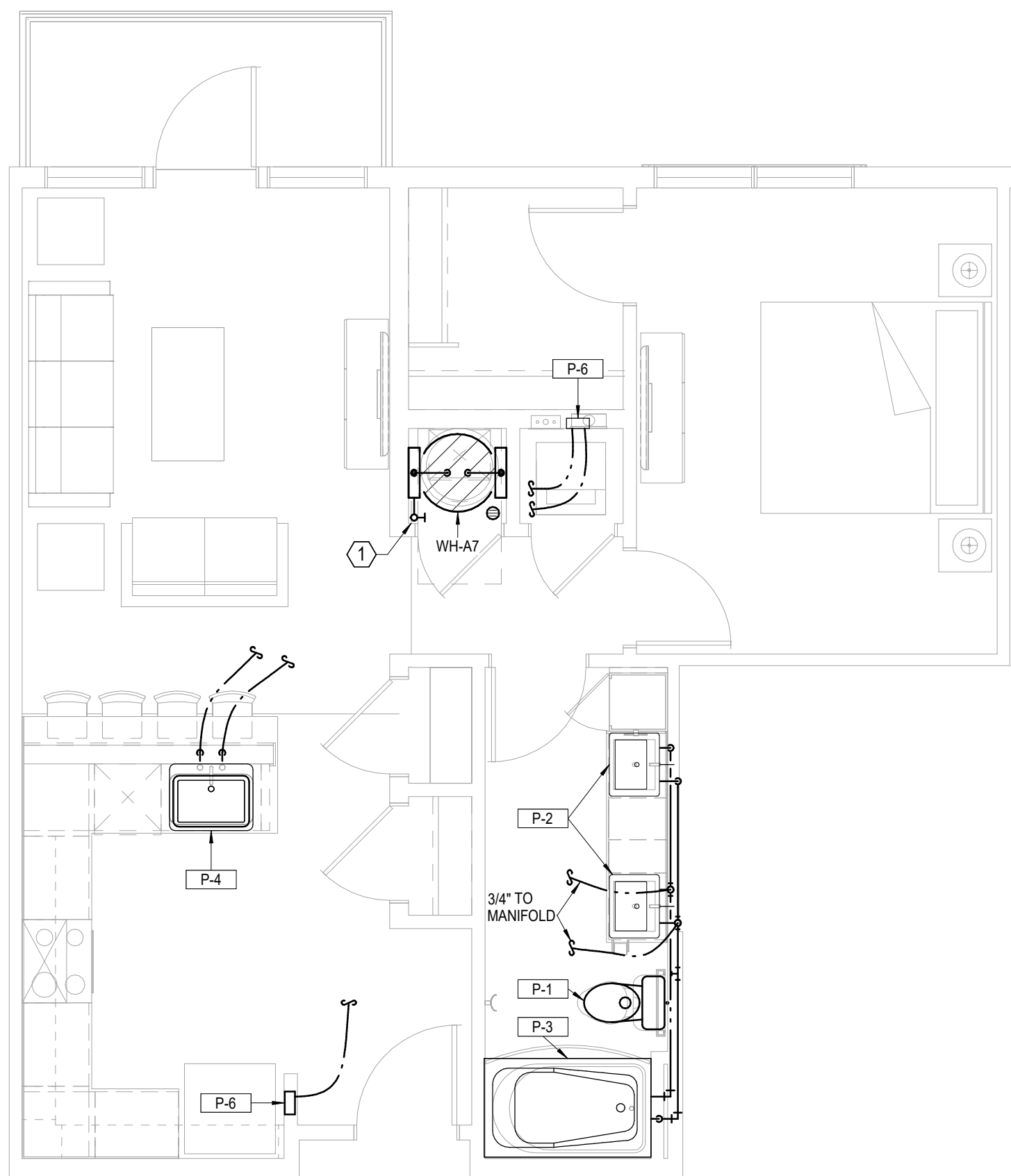
2 **UNIT A6**
PLUMBING
1/4" = 1'-0"



3 **UNIT A6 ALT**
PLUMBING
1/4" = 1'-0"



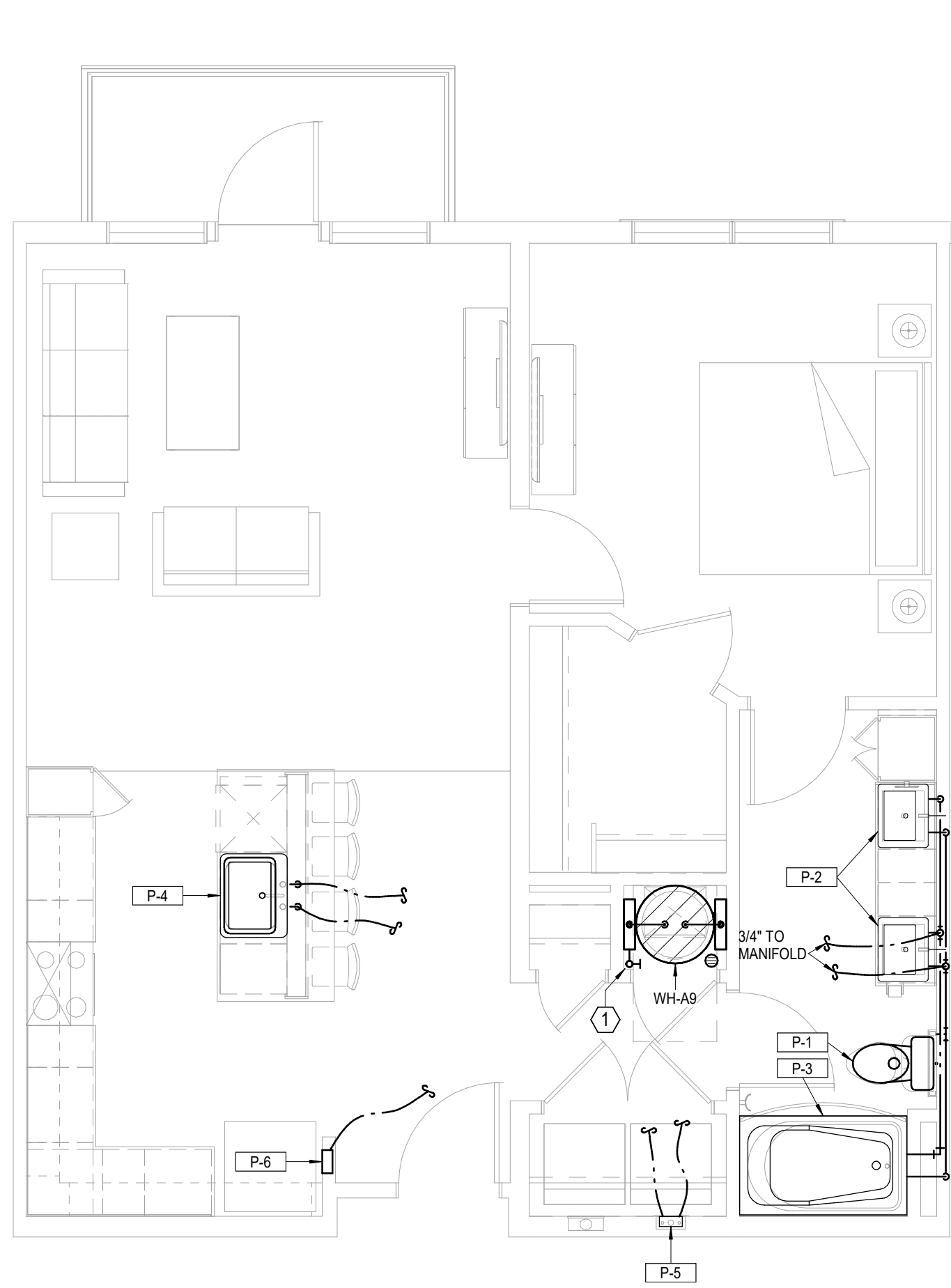
4 **UNIT A6 TYPE A**
PLUMBING
1/4" = 1'-0"



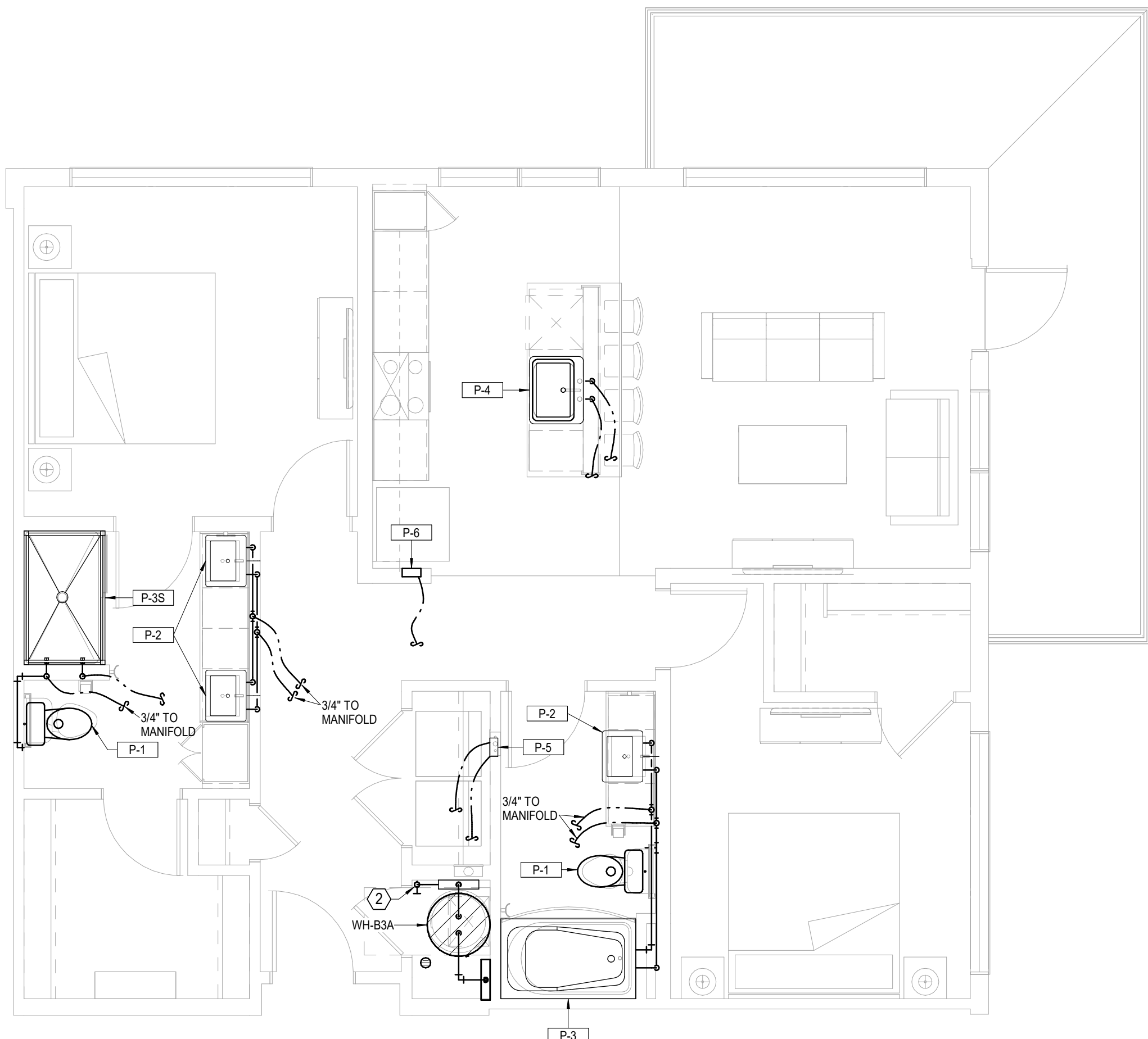
5 **UNIT A7**
PLUMBING
1/4" = 1'-0"

UNIT PLUMBING NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2.	PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4.	PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6.	P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

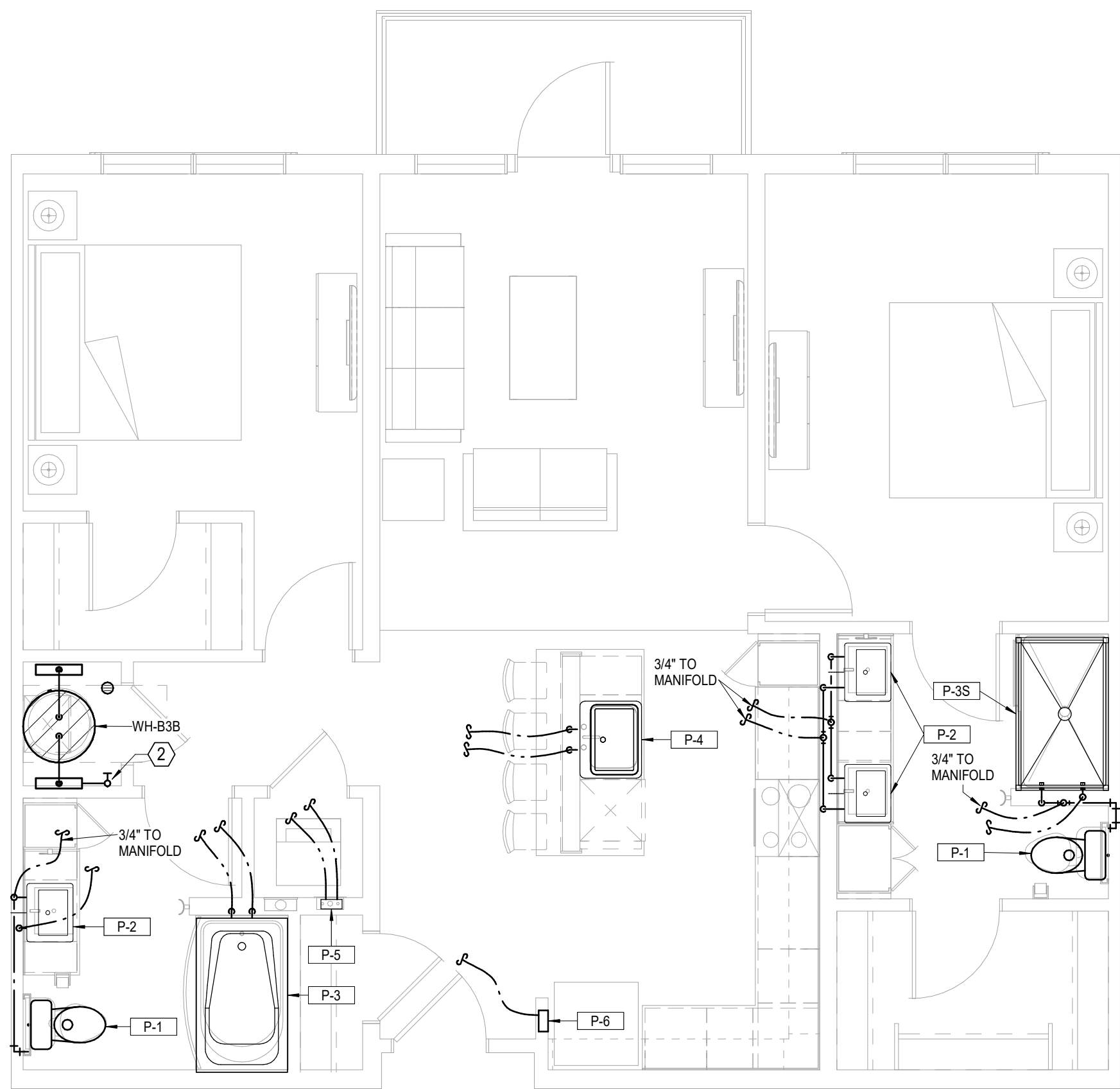
LEGEND:	
①	3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
②	1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



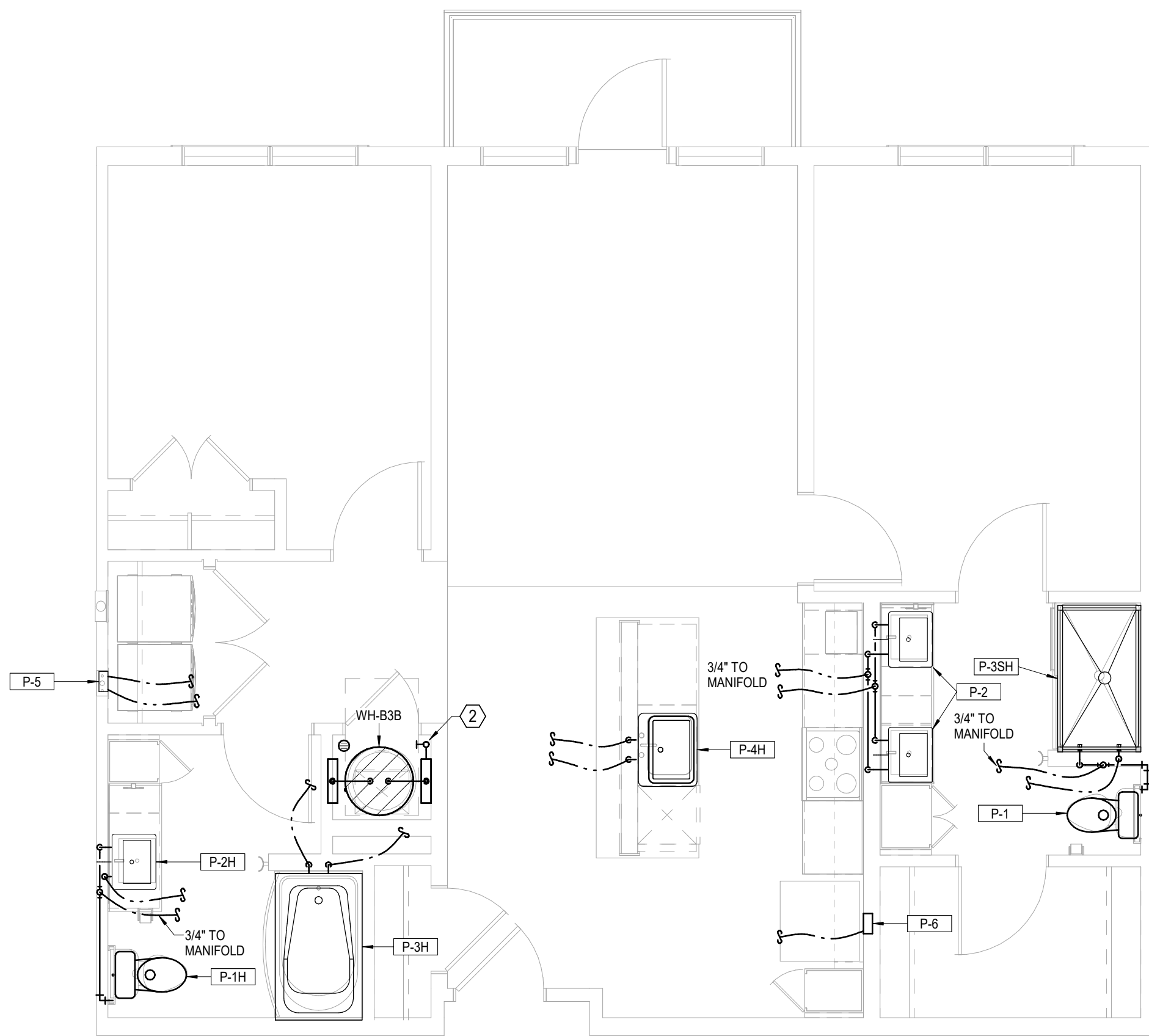
1 **UNIT A9**
PLUMBING
1/4" = 1'-0"



2 **UNIT B3A**
PLUMBING
1/4" = 1'-0"



3 **UNIT B3B**
PLUMBING
1/4" = 1'-0"



4 **UNIT B3B TYPE A**
PLUMBING
1/4" = 1'-0"

UNIT PLUMBING NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2.	PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4.	PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
6.	P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:	
①	3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
②	1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



9/16/2024

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

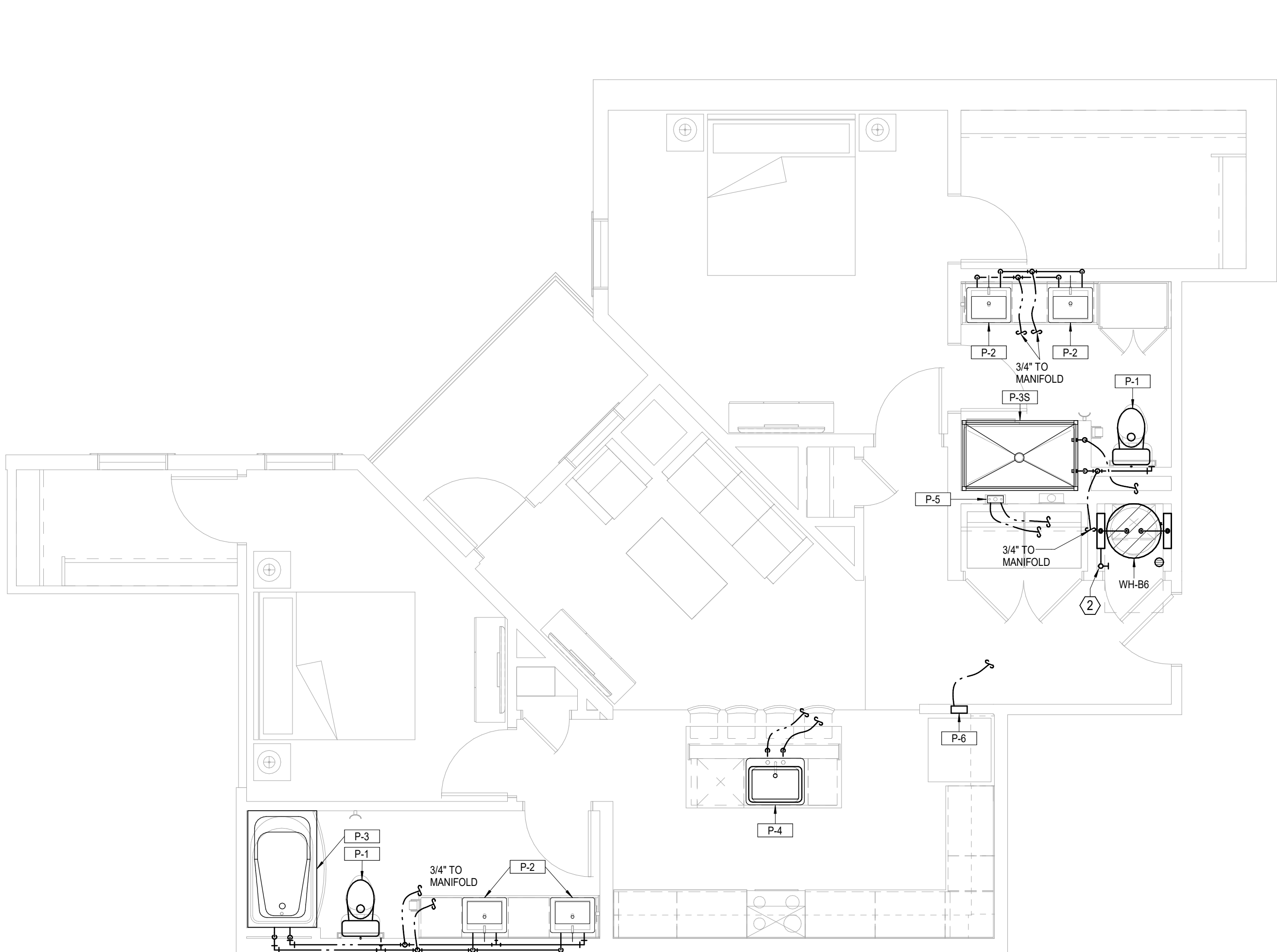
SHEET NAME
PLUMBING UNITS

SHEET NO.

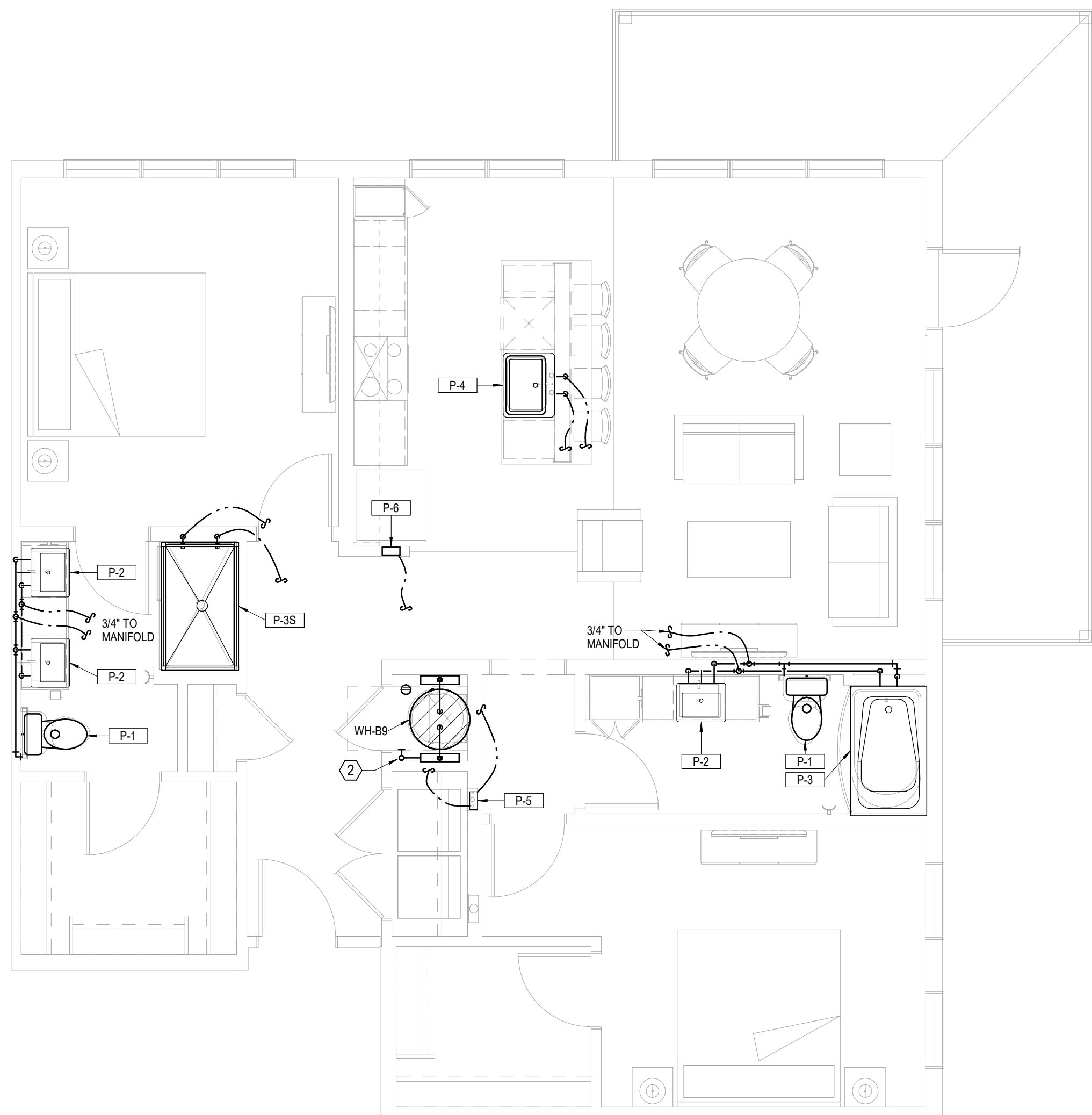
P2.02

UNIT PLUMBING NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
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6.	P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:	
①	3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
②	1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



1 **UNIT B6**
PLUMBING
1/4" = 1'-0"



2 **UNIT B9**
PLUMBING
1/4" = 1'-0"

Δ REVISIONS

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Email: lsapa@lsapa.com

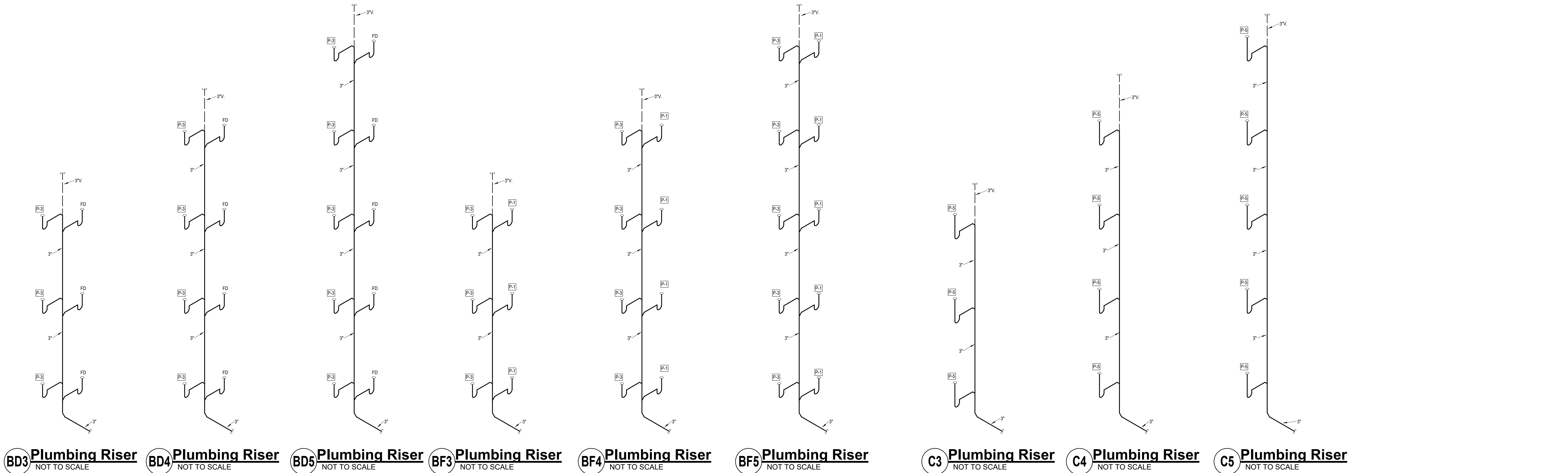
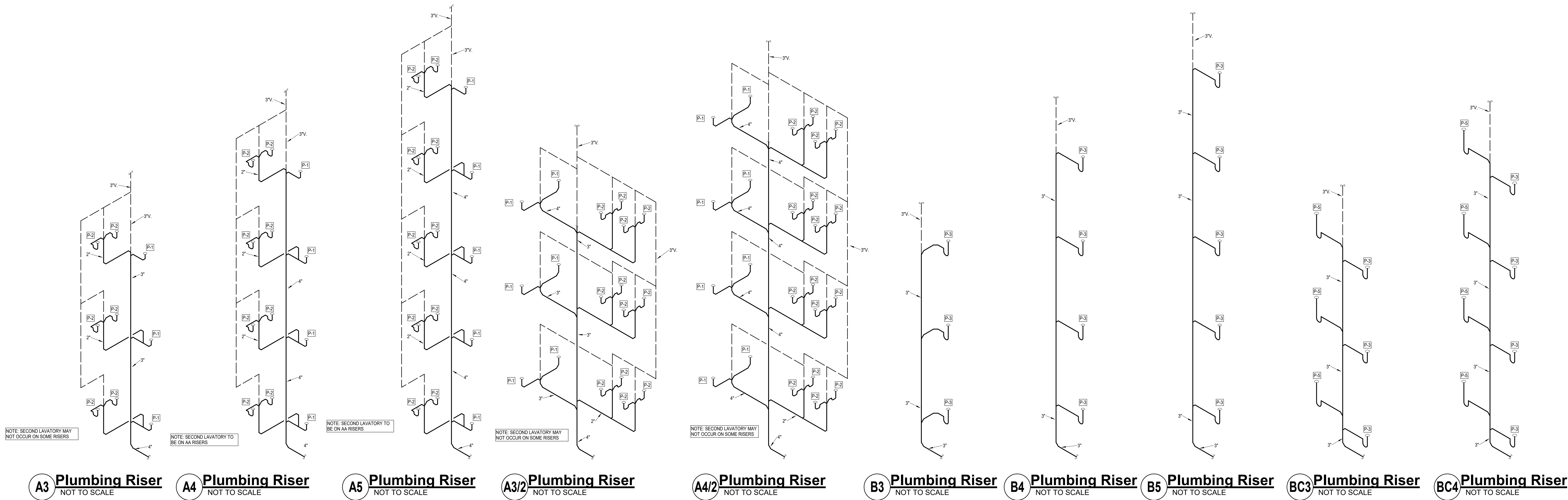
LSA PROJECT NO. 2404027

JOB NO. **720522** DATE **09.16.2024**
DRAWN BY **Author**
PERMIT SET

SHEET NAME
PLUMBING UNITS

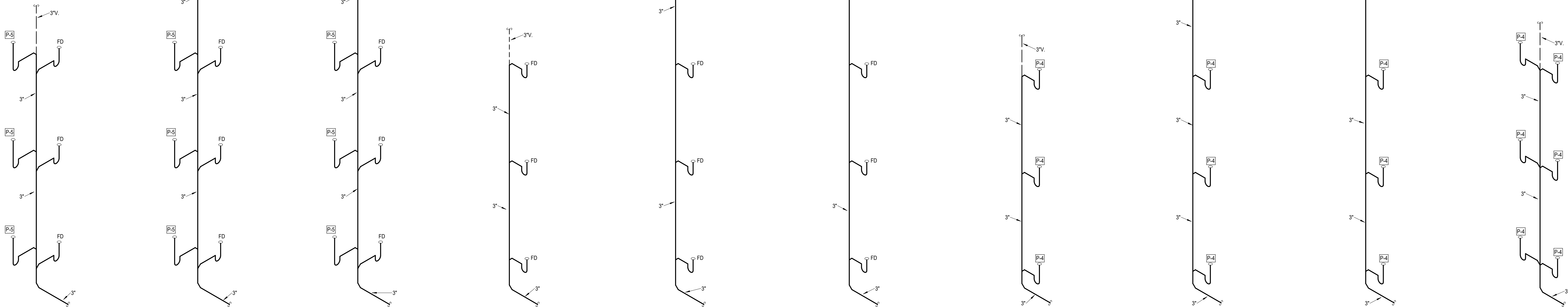
SHEET NO. _____

P2.03





9/16/2024



CD3 Plumbing Riser
NOT TO SCALE

CD4 Plumbing Riser
NOT TO SCALE

CD5 Plumbing Riser
NOT TO SCALE

D3 Plumbing Riser
NOT TO SCALE

D4 Plumbing Riser
NOT TO SCALE

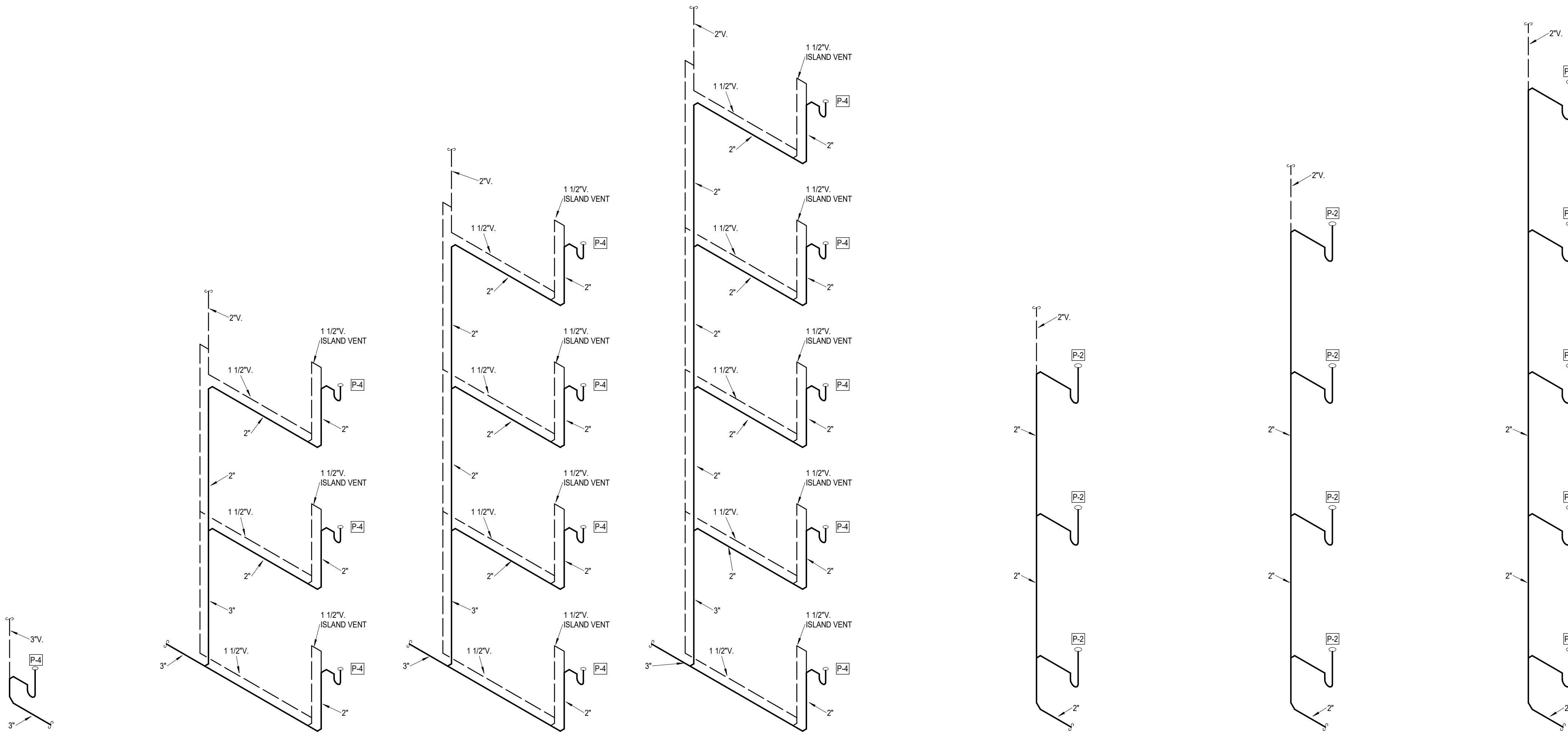
D5 Plumbing Riser
NOT TO SCALE

E3 Plumbing Riser
NOT TO SCALE

E4 Plumbing Riser
NOT TO SCALE

E5 Plumbing Riser
NOT TO SCALE

E3/2 Plumbing Riser
NOT TO SCALE



EI Plumbing Riser
NOT TO SCALE

EI3 Plumbing Riser
NOT TO SCALE

EI4 Plumbing Riser
NOT TO SCALE

EI5 Plumbing Riser
NOT TO SCALE

G3 Plumbing Riser
NOT TO SCALE

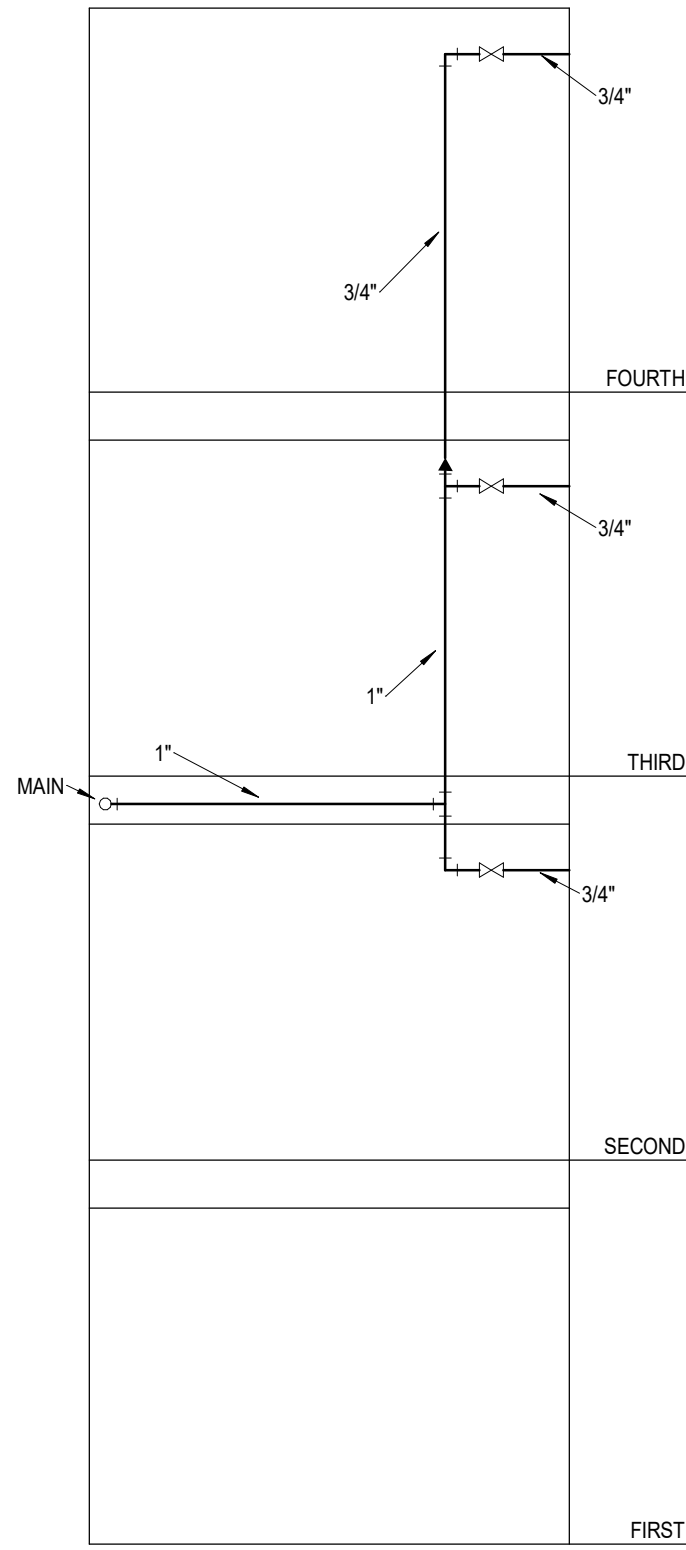
G4 Plumbing Riser
NOT TO SCALE

G5 Plumbing Riser
NOT TO SCALE

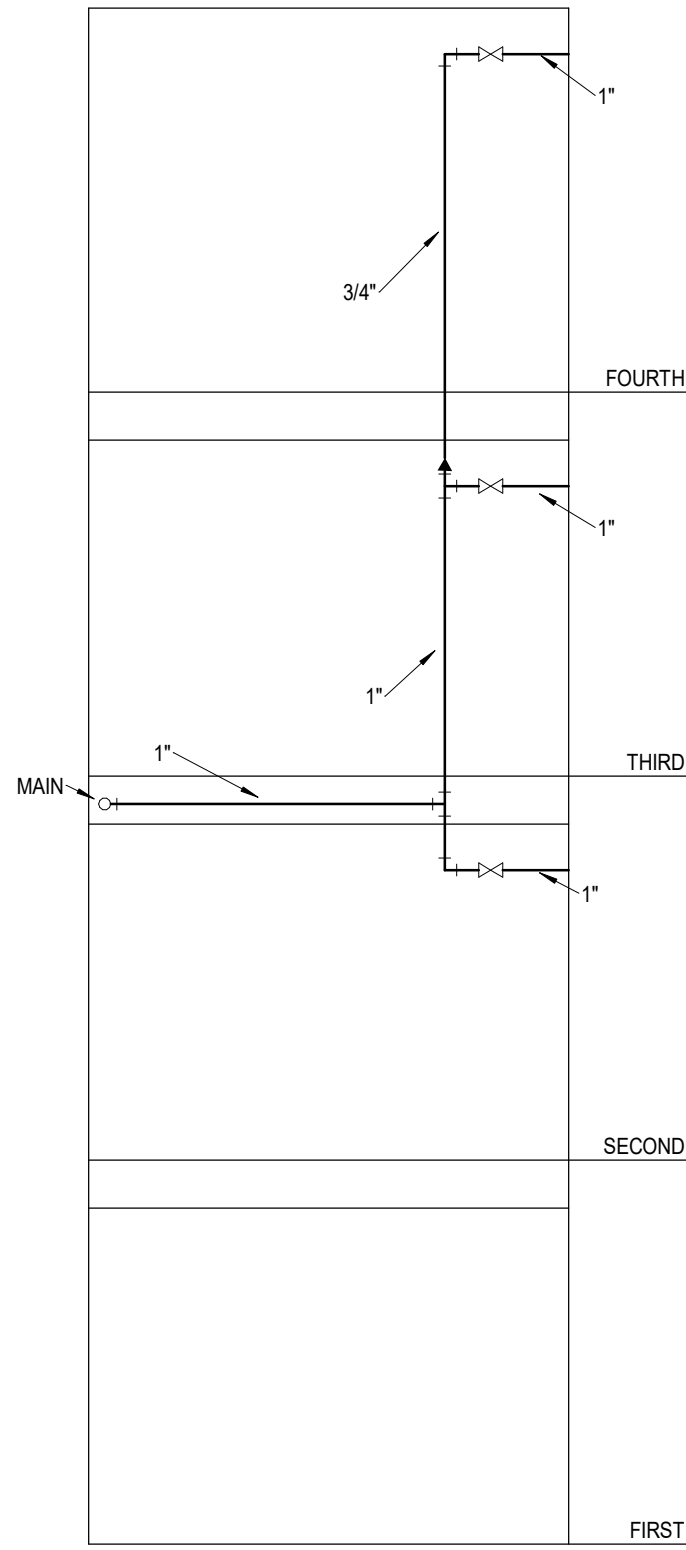
A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

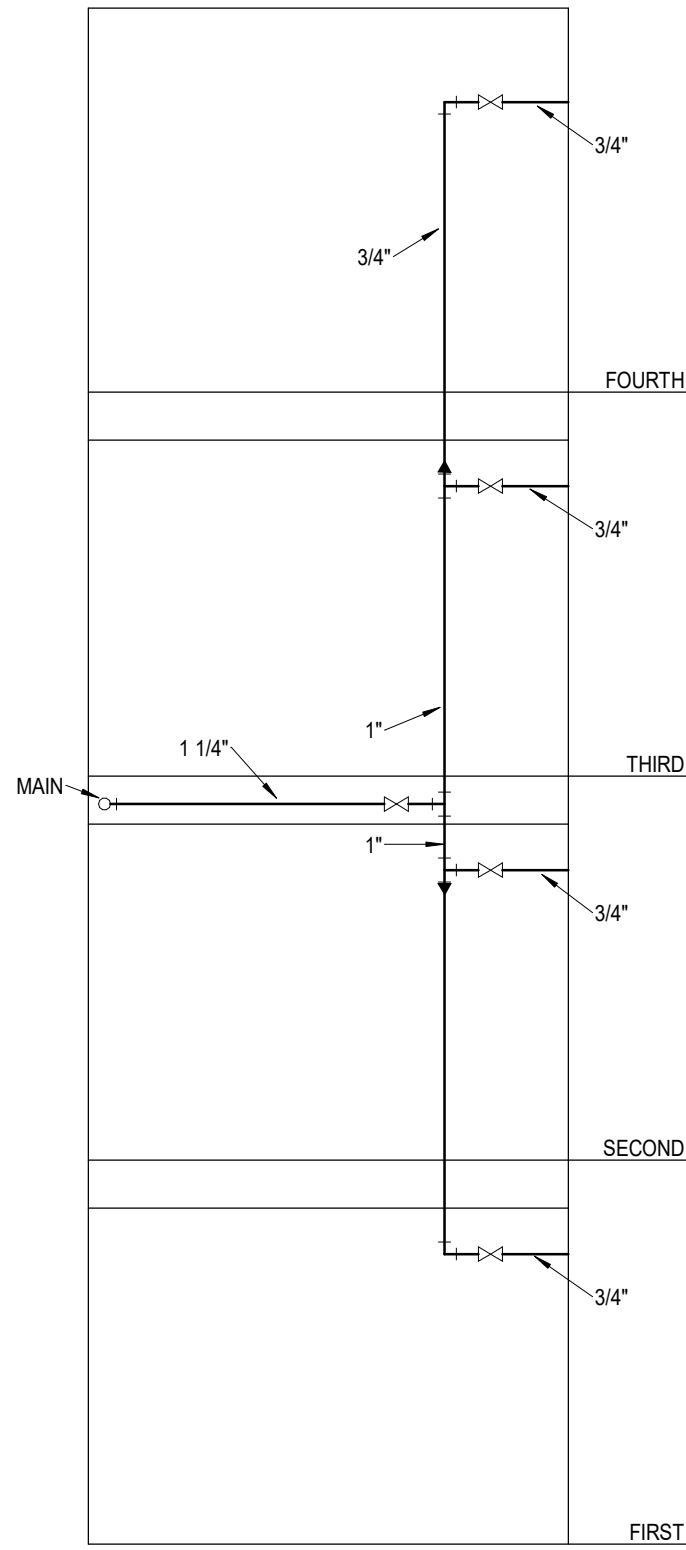
REVISIONS



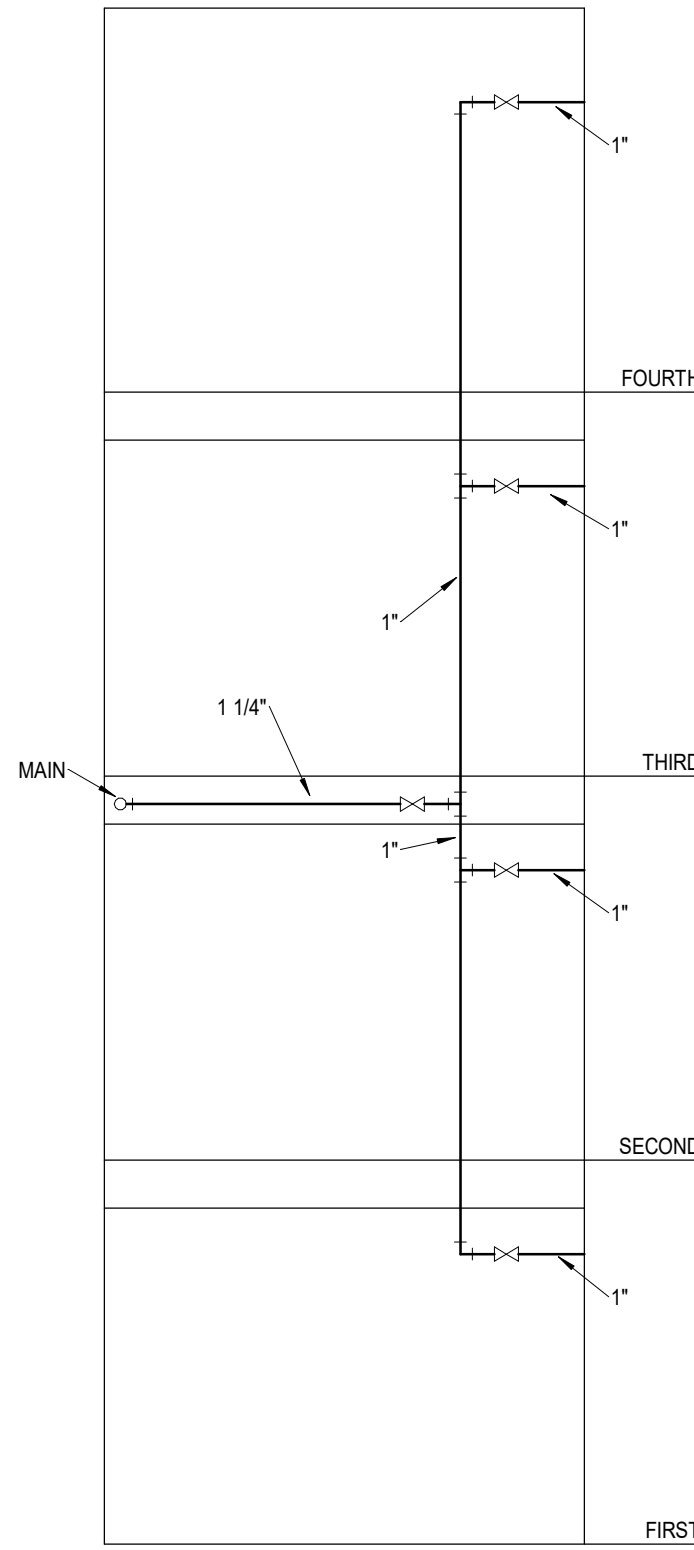
1 **Plumbing Riser**
NOT TO SCALE



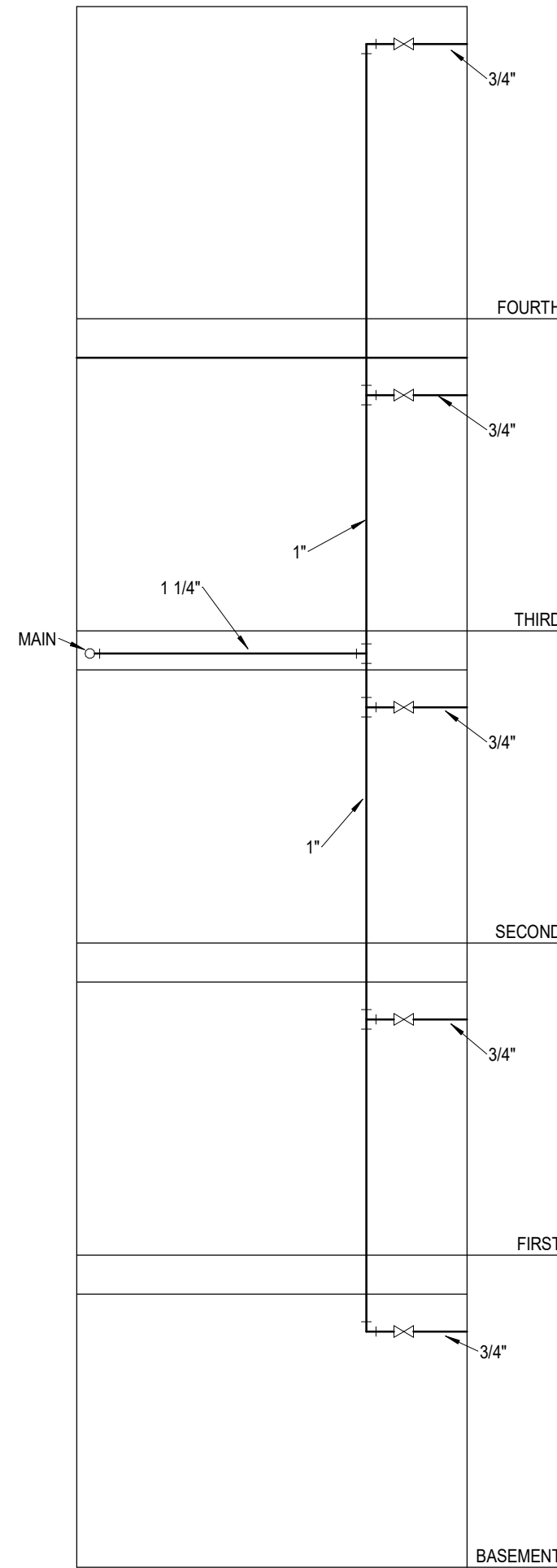
2 **Plumbing Riser**
NOT TO SCALE



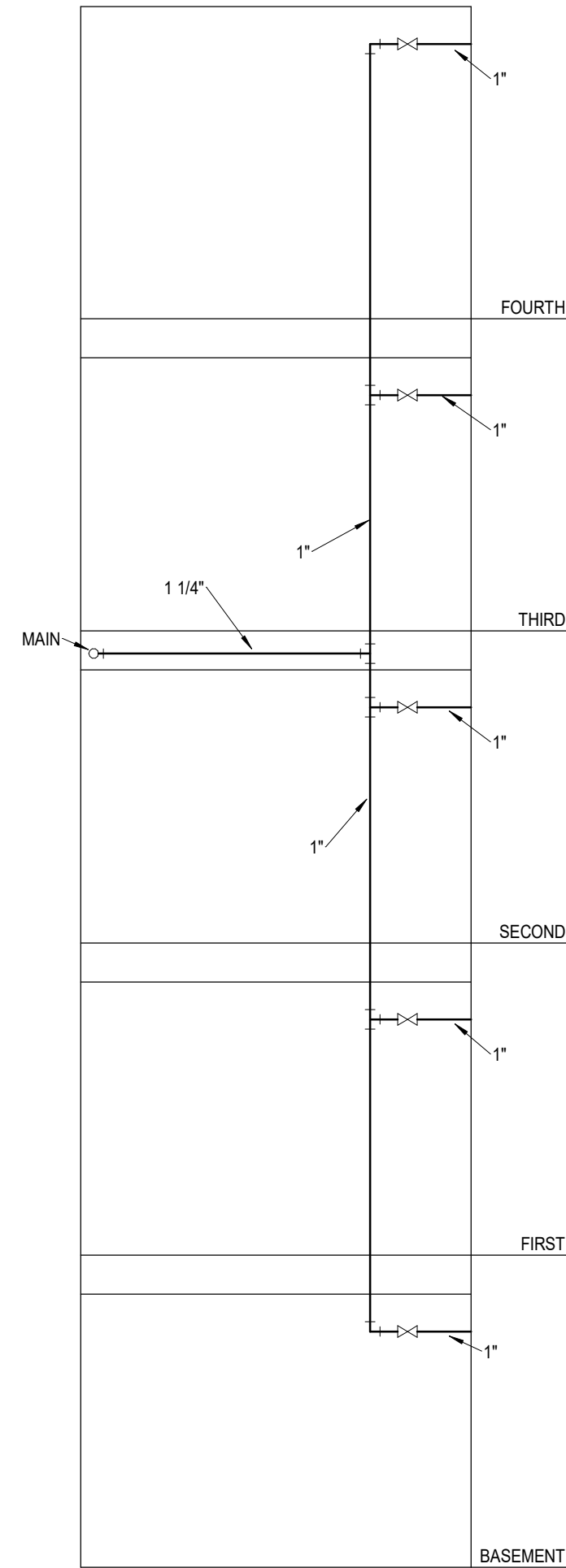
3 **Plumbing Riser**
NOT TO SCALE



4 **Plumbing Riser**
NOT TO SCALE



5 **Plumbing Riser**
NOT TO SCALE
ONE BATH



6 **Plumbing Riser**
NOT TO SCALE

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

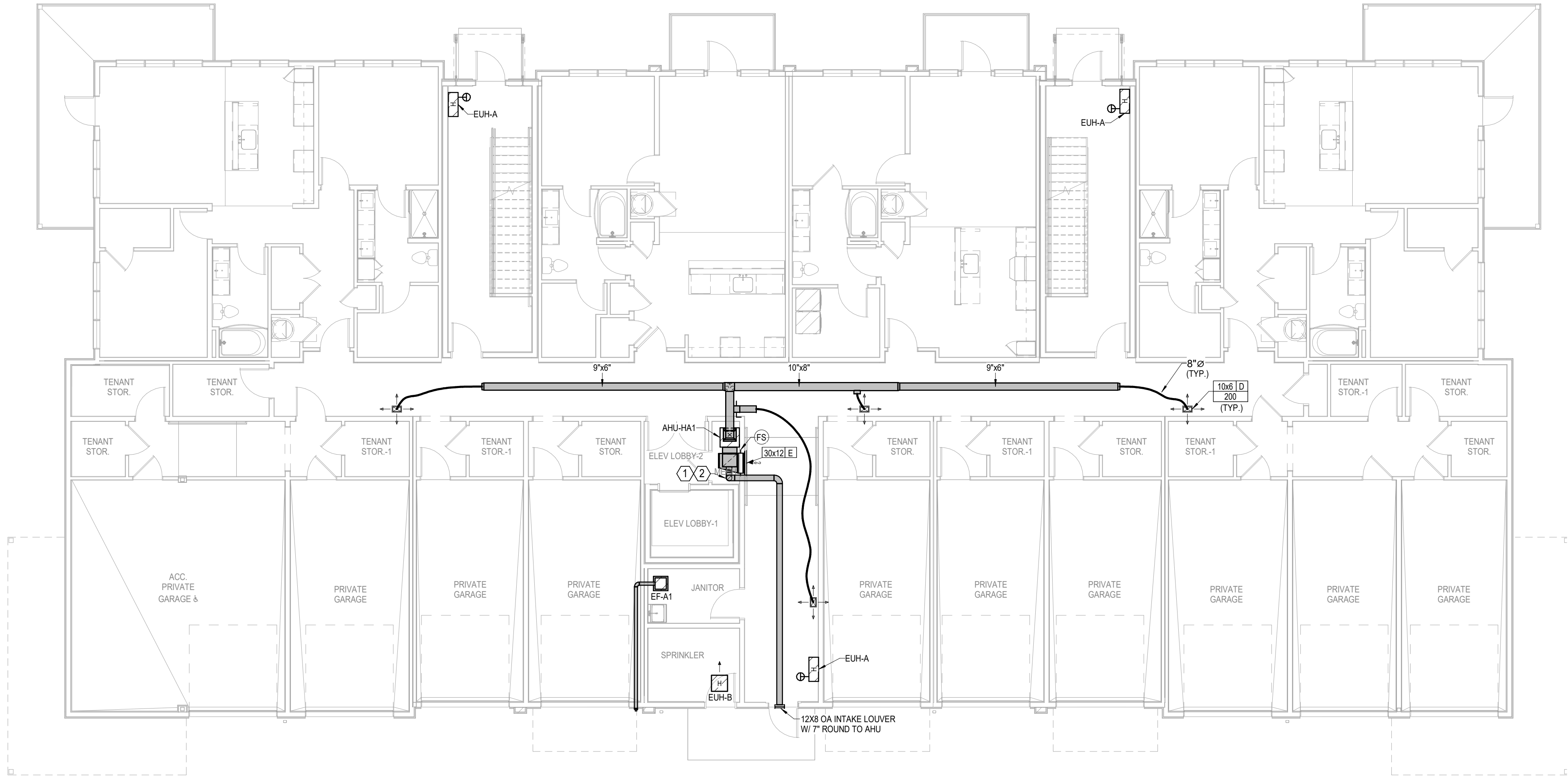
REVISIONS



9/16/2024

MECHANICAL NOTES:	
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2.	ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3.	SEE THE ARCHITECTURAL, LIGHTING, AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4.	MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
5.	ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
6.	FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
7.	CORRIDOR AHU'S TO HAVE THERMOSTAT MOUNTED NEAR RETURN GRILLE WITH GUARD.
8.	DUCTLESS SPLITS (DSS) ROUTE CONDENSATE DRAIN TO NEARBY LAVATORY TAILPIECE, FLOOR DRAIN, SINK TAILPIECE.

LEGEND:	
①	AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
②	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.

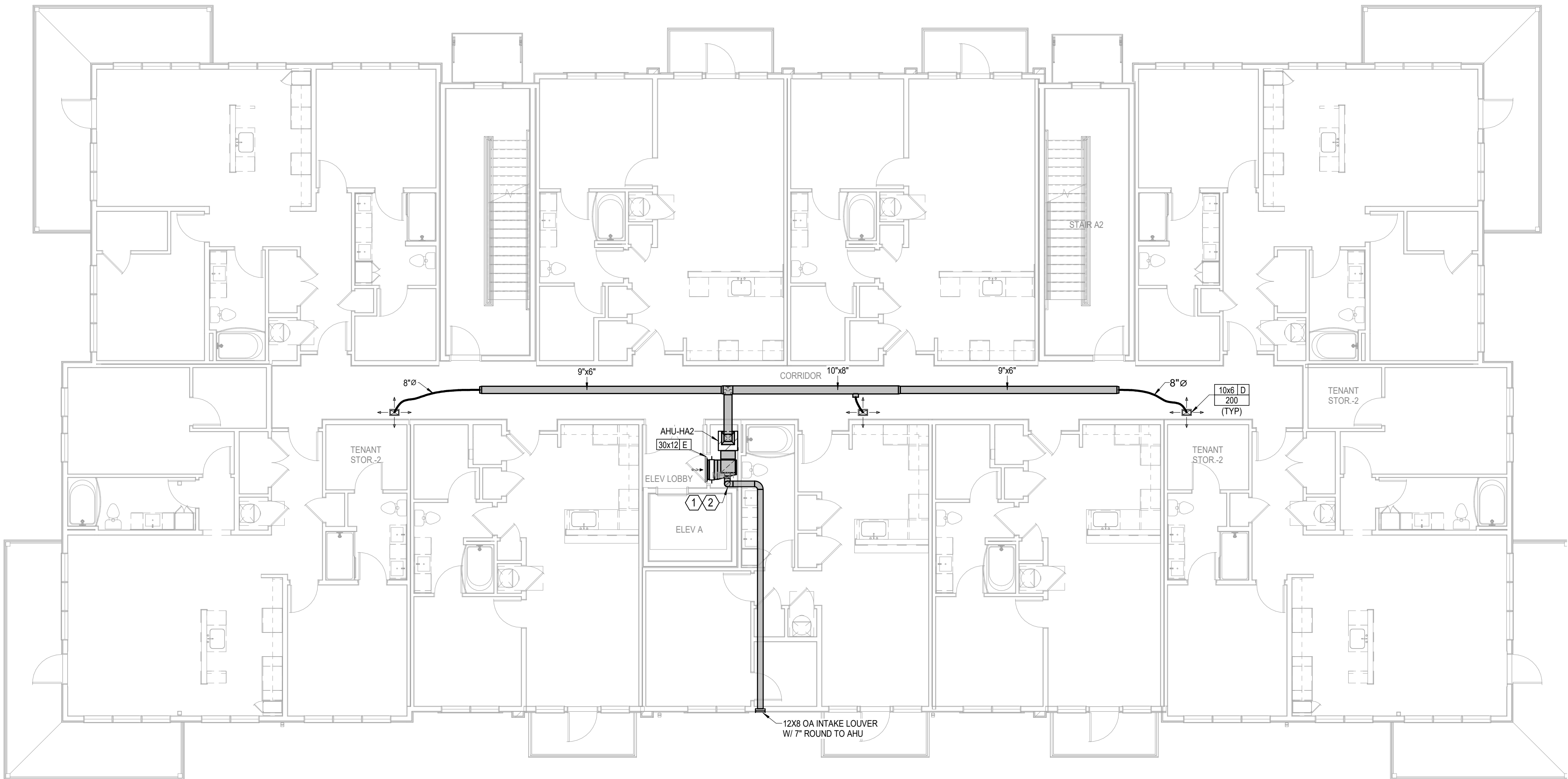


1 BUILDING A - 1ST FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS



1 BUILDING A - 2ND FLOOR PLAN
HVAC
1/8" = 1'-0"
BUILDINGS 1, 5, 7, 8

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Mechanical Engineering

9/16/2024

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LEES SUMMIT, MISSOURI

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LSA PROJECT NO. 2404027

JOB NO.
720522
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DATE
09.16.2024

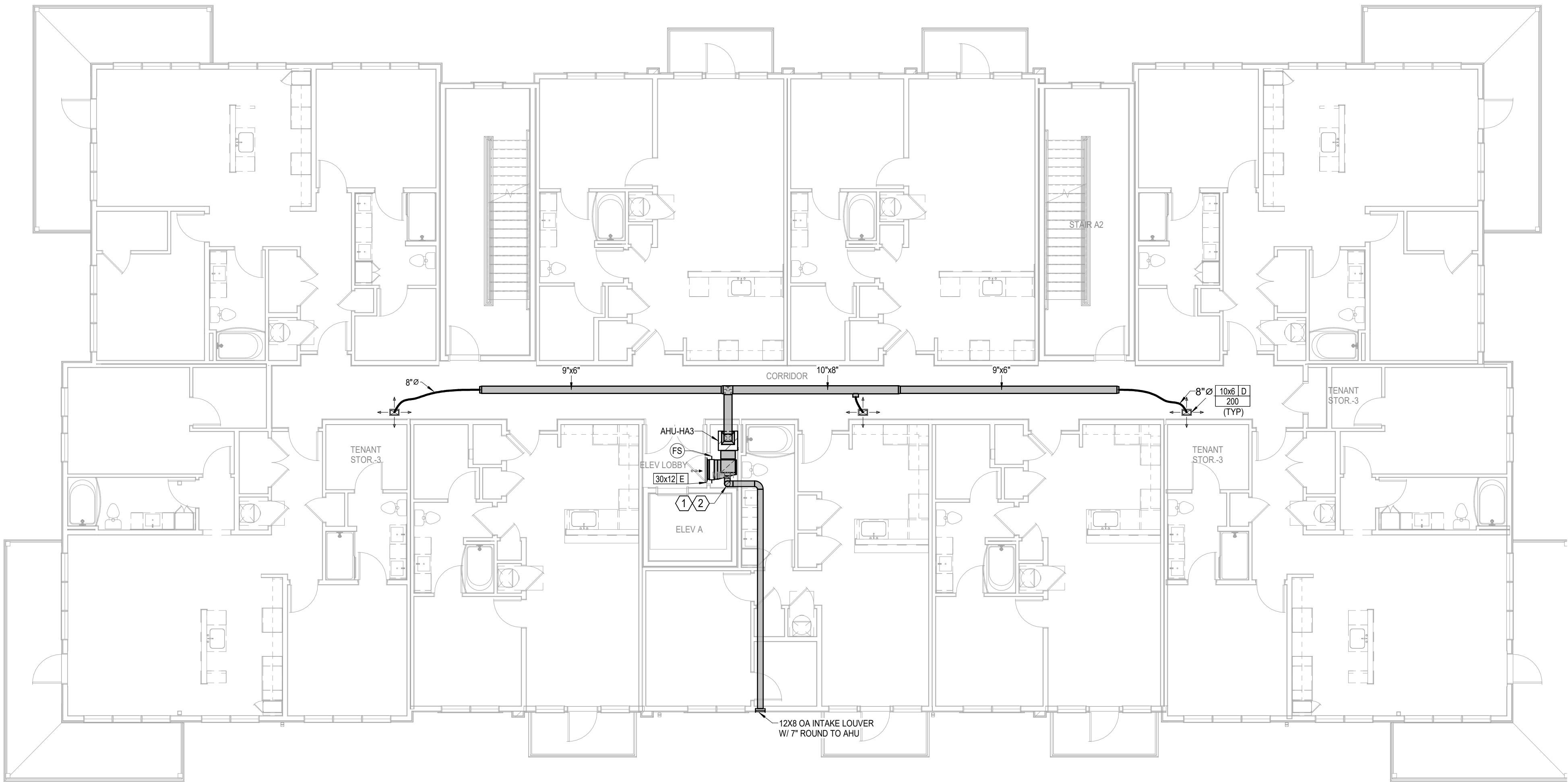
SHEET NAME
**BUILDING A - SECOND
FLOOR PLAN - HVAC**
SHEET NO.

M1.12



MECHANICAL NOTES:	
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LEGEND:	
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②	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.



1 BUILDING A - 3RD FLOOR PLAN
HVAC
1/8" = 1'-0"
BUILDINGS 1, 5, 7, 8

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING A - THIRD FLOOR
PLAN - HVAC
SHEET NO.

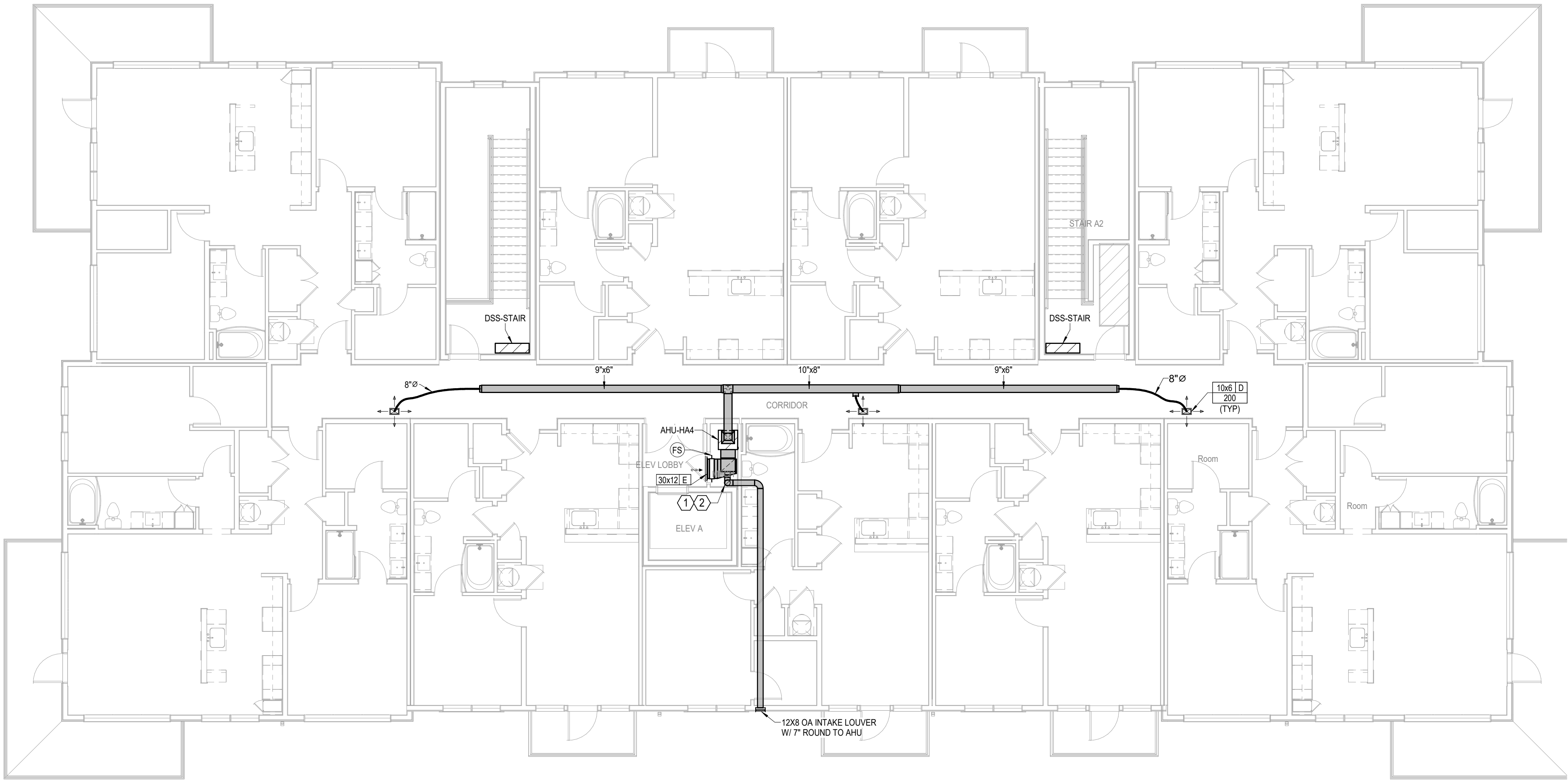
M1.13

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LSA PROJECT NO. 2404027



9/16/2024

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1 BUILDING A - 4TH FLOOR PLAN
HVAC
1/8" = 1'-0"
BUILDINGS 1, 5, 7, 8

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
• 09.16.24 PERMIT SET

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JOB NO. 720522
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PERMIT SET

SHEET NAME
BUILDING A - FOURTH
FLOOR PLAN - HVAC
SHEET NO.

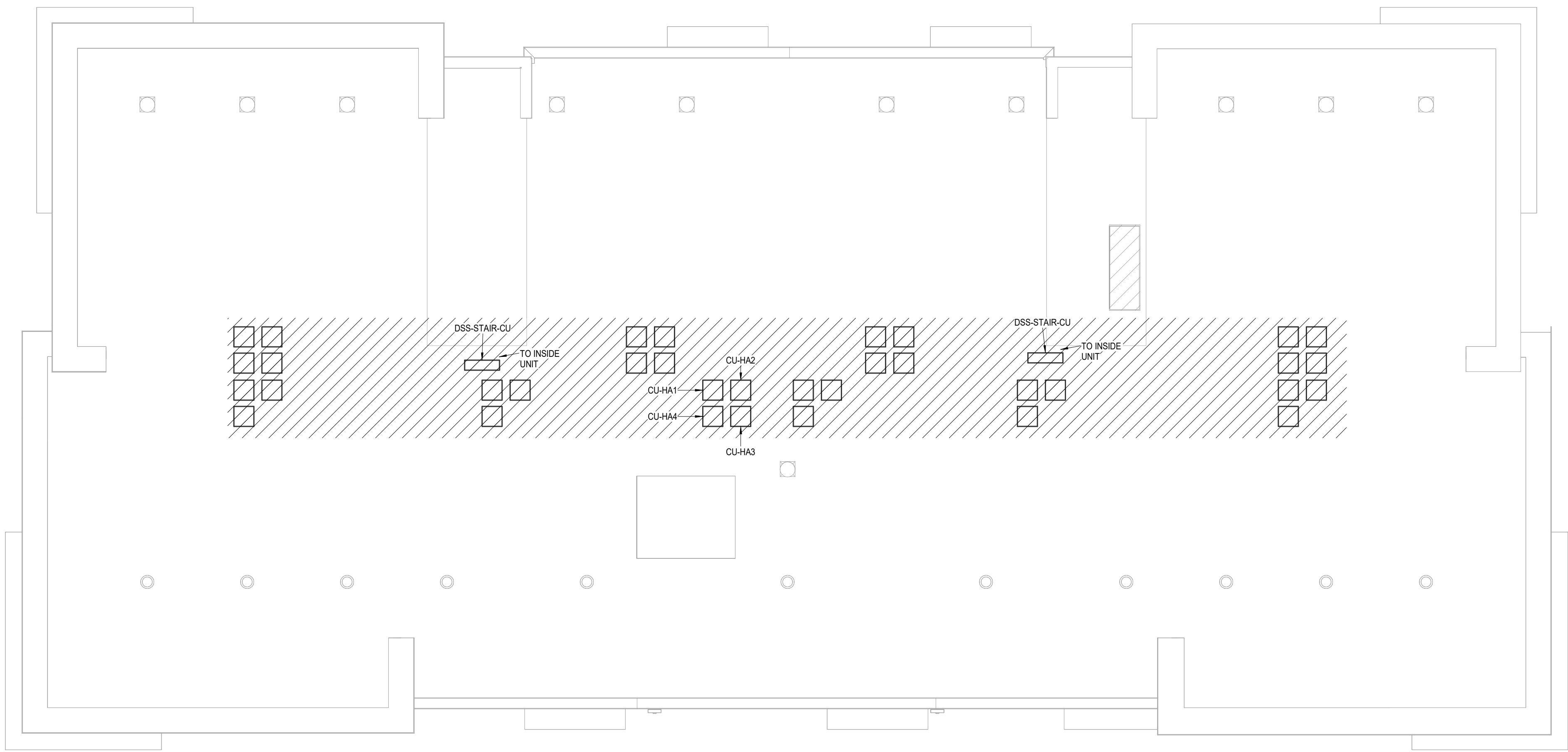
M1.14

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1 BUILDING A - ROOF PLAN
HVAC
1/8" = 1'-0"
BUILDINGS 1, 5, 7, 8

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
• 09.16.24 PERMIT SET

△ REVISIONS

JOB NO. 720522
DRAWN BY Author
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SHEET NAME
BUILDING A - ROOF PLAN - HVAC
SHEET NO.

M1.15

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LSA PROJECT NO. 2404027



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9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

1

BUILDING B - 1ST FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 3, 6)

JOB NO.
720522

DATE
09.16.2024

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Author

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

SHEET NAME
BUILDING B - FIRST FLOOR
PLAN - HVAC

SHEET NO.

M1.21



- MECHANICAL NOTES:**
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LEES SUMMIT, MISSOURI

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REVISIONS

1 BUILDING B - 2ND FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 3, 6)

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JOB NO.
720522
DATE
09.16.2024
DRAWN BY
Author
PERMIT SET
SHEET NAME
**BUILDING B - SECOND
FLOOR PLAN - HVAC**
SHEET NO.
M1.22



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A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

1 BUILDING B - 3RD FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 3, 6)



JOB NO.
720522
DRAWN BY
Author
PERMIT SET

SHEET NAME
**BUILDING B - THIRD FLOOR
PLAN - HVAC**
SHEET NO.

M1.23



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LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
• 09.16.24 PERMIT SET

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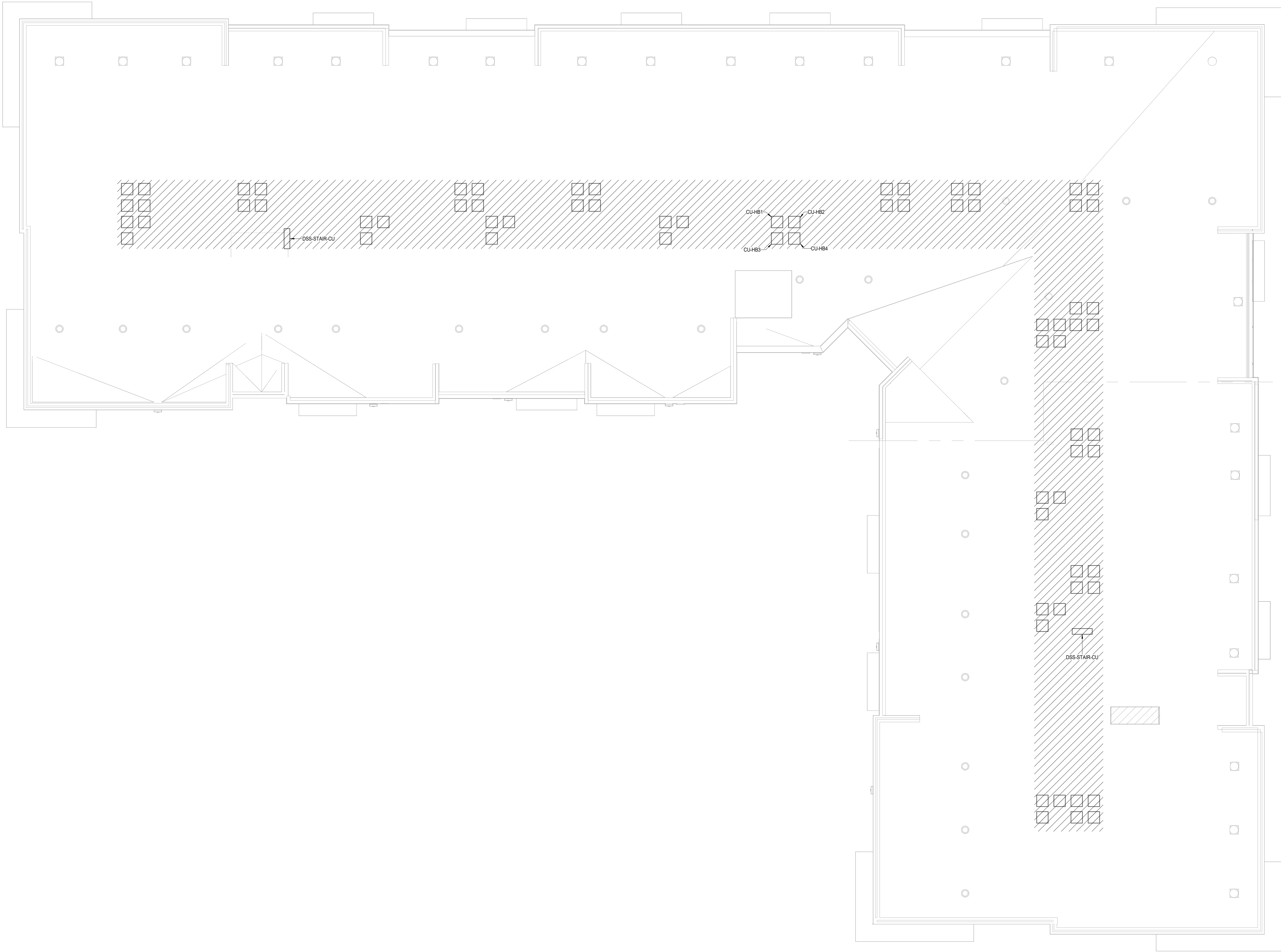
1 BUILDING B - 4TH FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 3, 6)

JOB NO.
720522
DRAWN BY
Author
PERMIT SET

SHEET NAME
**BUILDING B - FOURTH
FLOOR PLAN - HVAC**
SHEET NO.

M1.24

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1 BUILDING B - ROOF PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 3, 6)

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LSA PROJECT NO. 2404027

JOB NO.
720522

DATE
09.16.2024

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Author

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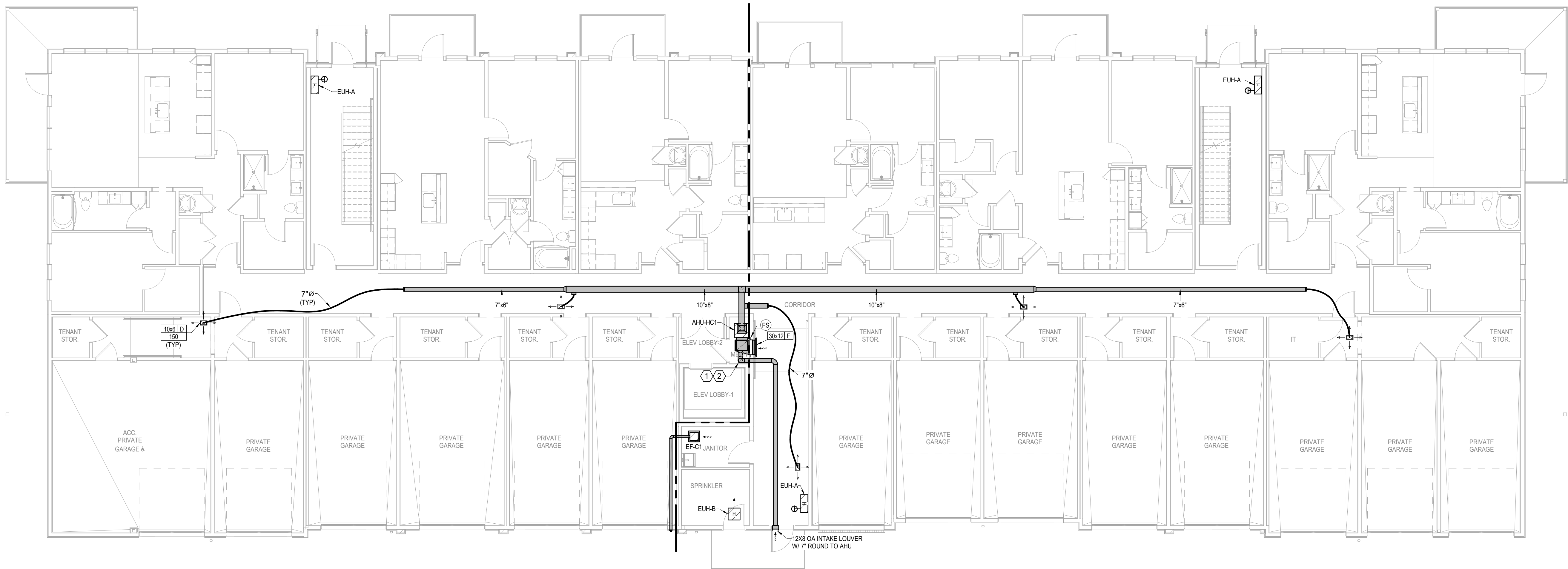
SHEET NAME
**BUILDING B - ROOF PLAN -
HVAC**

SHEET NO.
M1.25



9/16/2024

MECHANICAL NOTES:	
1.	COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.	ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3.	SEE THE ARCHITECTURAL, LIGHTING, AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4.	MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
5.	ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
6.	FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
7.	CORRIDOR AHU'S TO HAVE THERMOSTAT MOUNTED NEAR RETURN GRILLE WITH GUARD.
8.	DUCTLESS SPLITS (DSS) ROUTE CONDENSATE DRAIN TO NEARBY LAVATORY TAILPIECE, FLOOR DRAIN, SINK TAILPIECE.
LEGEND:	
(1)	AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
(2)	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.



1 BUILDING C - 1ST FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

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SHEET NAME
**BUILDING C - FIRST FLOOR
PLAN - HVAC**
SHEET NO.

M1.31

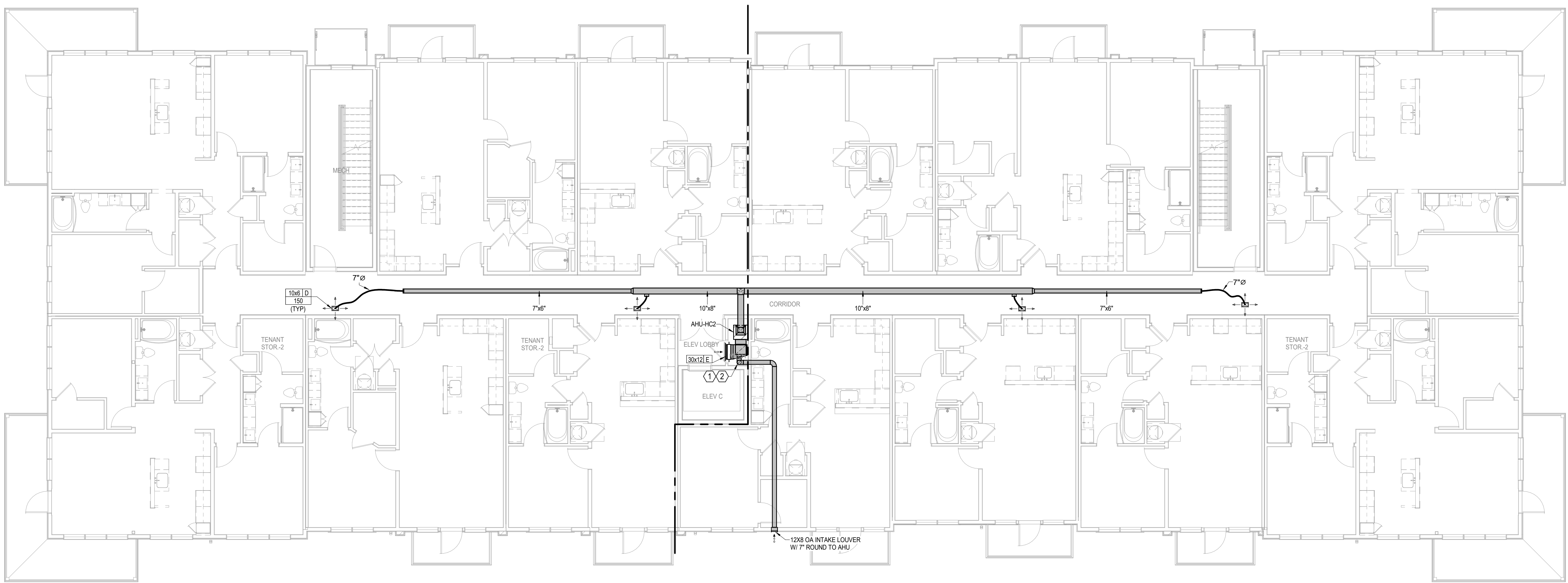
9/16/2024

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8. DUCTLESS SPLITS (DSS) ROUTE CONDENSATE DRAIN TO NEARBY LAVATORY TAILPIECE, FLOOR DRAIN, SINK TAILPIECE.

LEGEND:

①	AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
②	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.



1 BUILDING C - 2ND FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
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JOB NO. **720522** DATE **09.16.2024**
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SHEET NAME
BUILDING C - SECOND
FLOOR PLAN - HVAC
SHEET NO.

SHEET NO. **M1.32**

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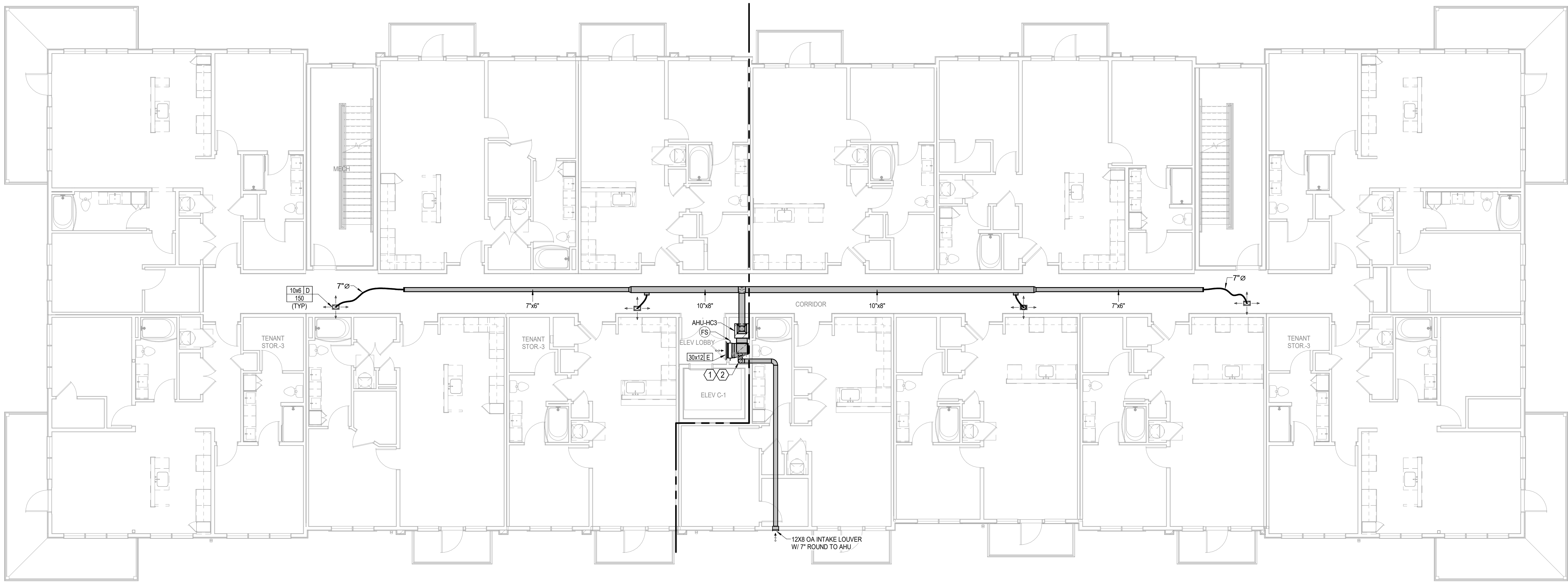
LSA PROJECT NO. 2404027



9/16/2024

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LEGEND:	
①	AUTO DAMPER IN OA DUCT. SEE DETAIL FOR MODEL.
②	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.



1 **BUILDING C - 3RD FLOOR PLAN**
HVAC
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522
DRAWN BY
Author
PERMIT SET

SHEET NAME
BUILDING C - THIRD FLOOR
PLAN - HVAC
SHEET NO.

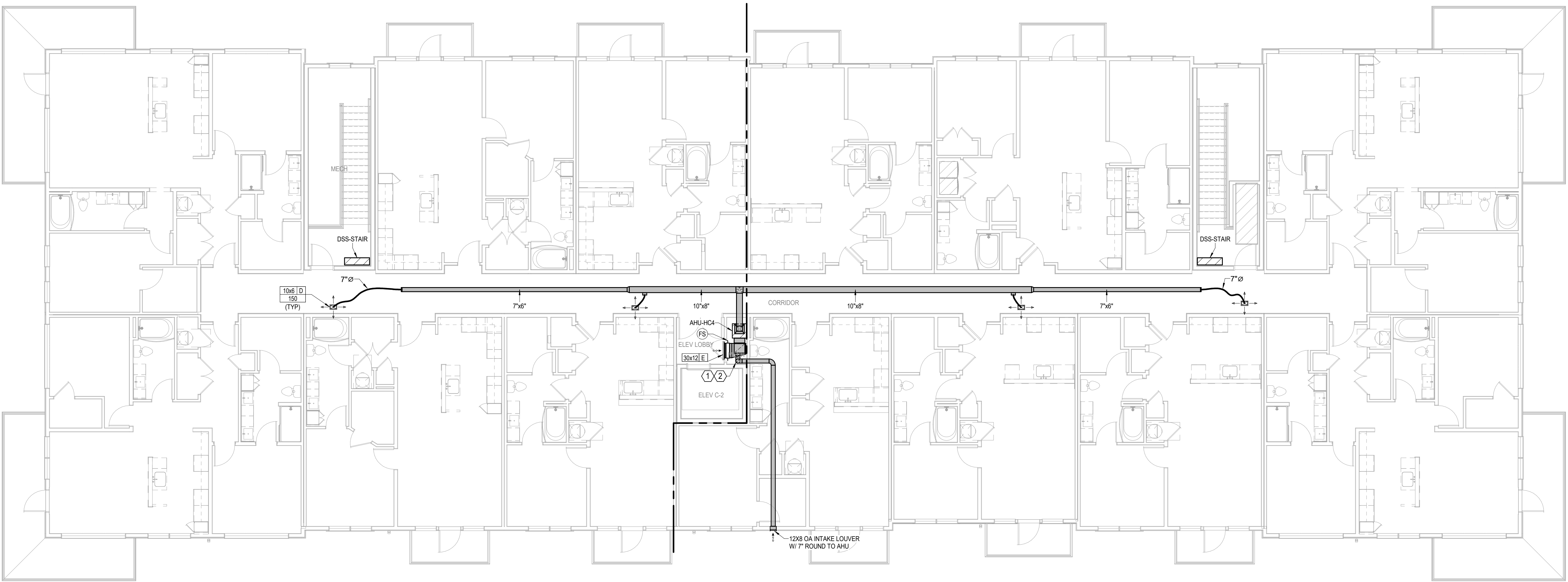
M1.33

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9/16/2024

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LEGEND:	
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②	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.



1 BUILDING C - 4TH FLOOR PLAN
HVAC
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

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PERMIT SET

SHEET NAME
BUILDING C - FOURTH
FLOOR PLAN - HVAC
SHEET NO.

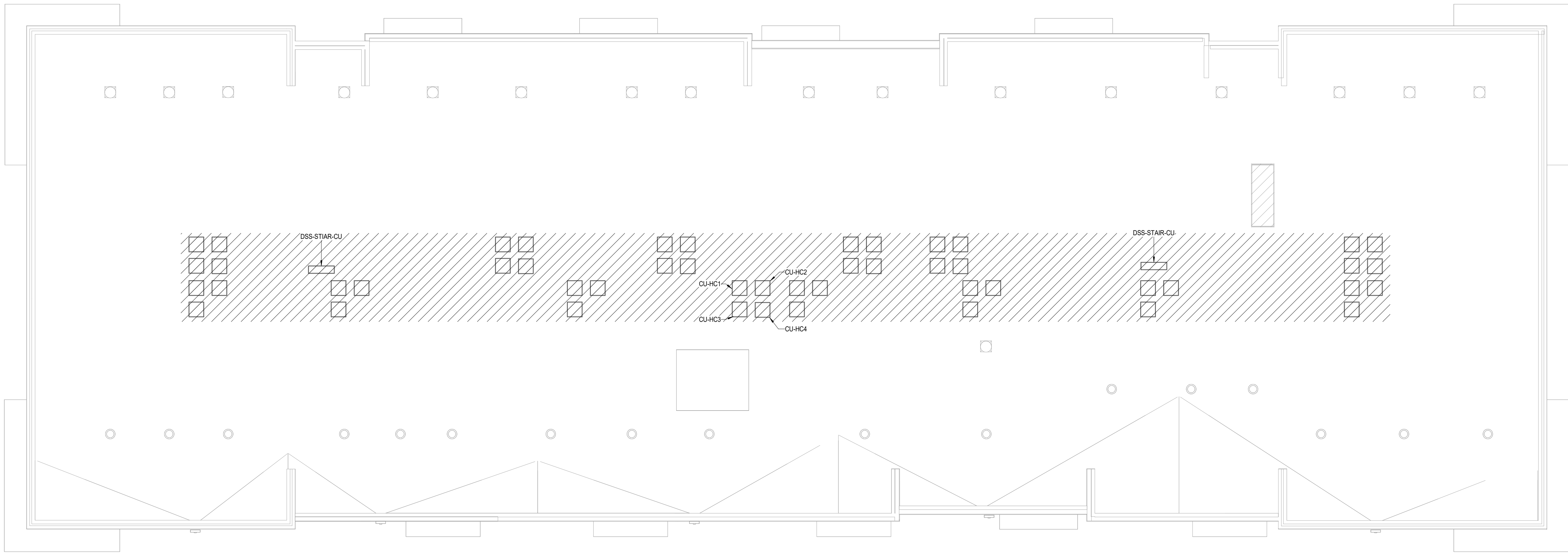
M1.34

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1 **BUILDING C - ROOF PLAN**
HVAC
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
• 09.16.24 PERMIT SET

△ REVISIONS

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LSA PROJECT NO. 2404027

SHEET NAME
BUILDING C - ROOF PLAN - HVAC

SHEET NO.

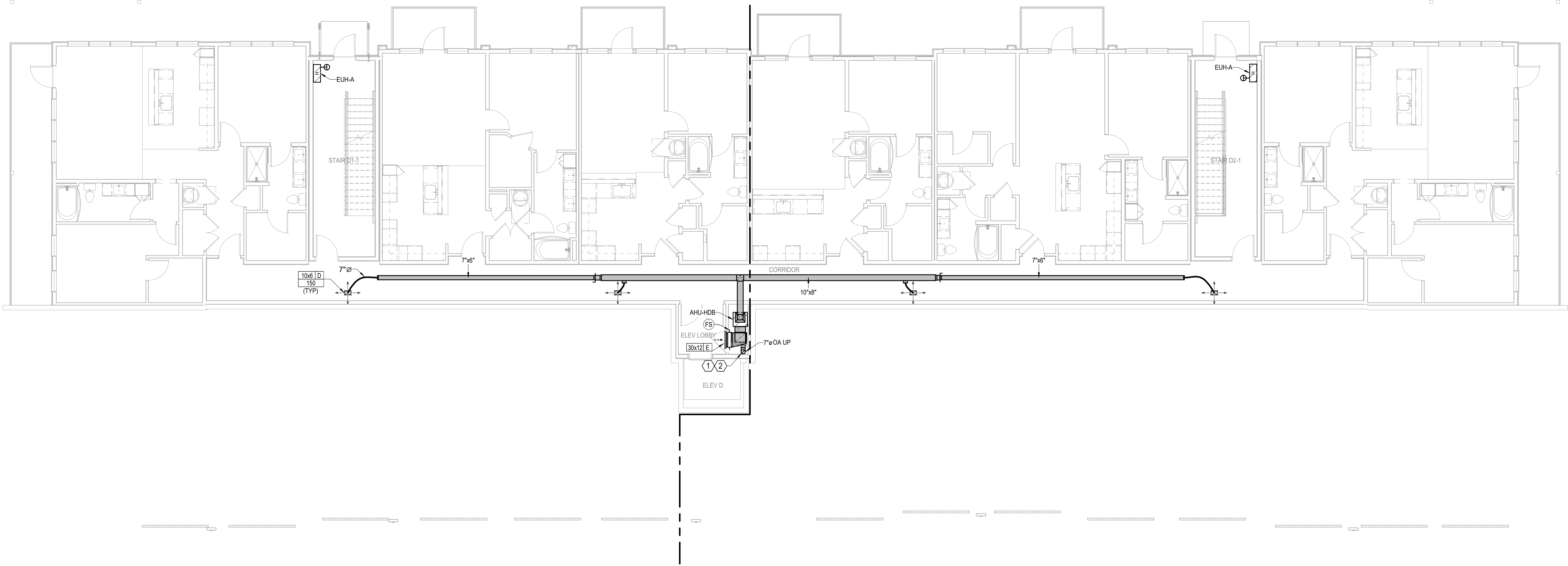
M1.35



9/16/2024

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LEGEND:	
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1 **BUILDING D - BASEMENT FLOOR PLAN**
HVAC
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
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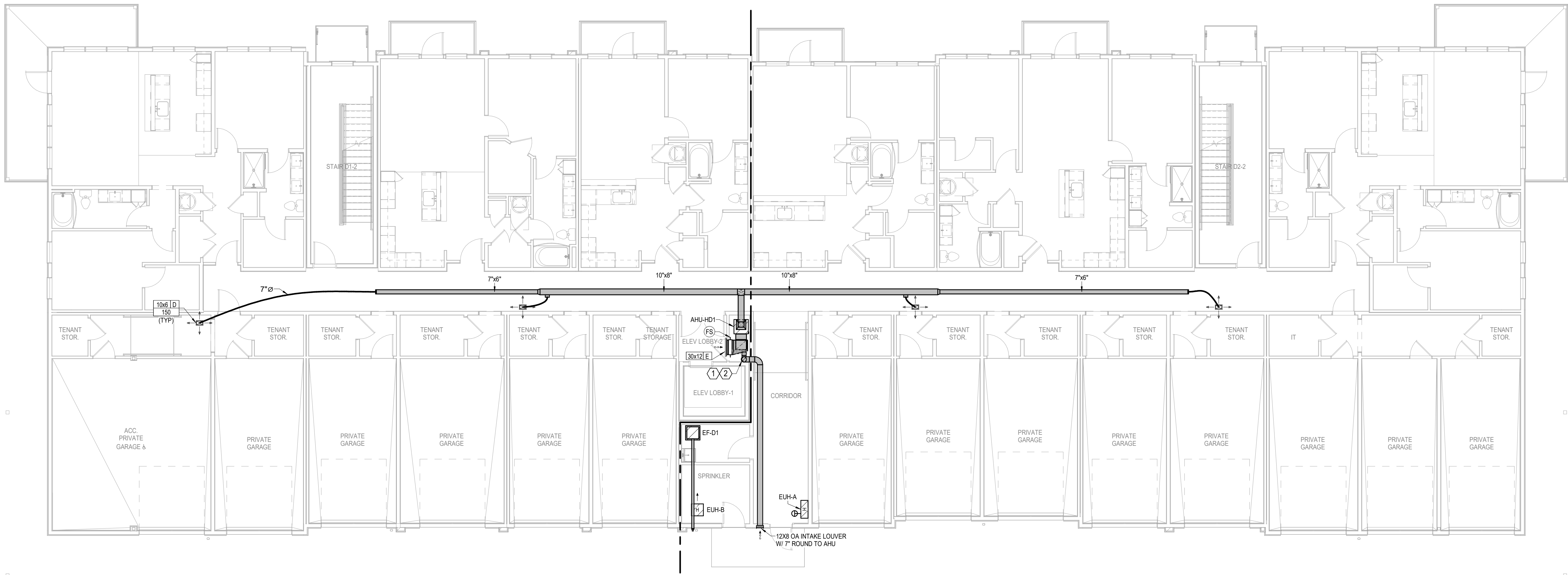
SHEET NAME
BUILDING D - BASEMENT
FLOOR PLAN - HVAC
SHEET NO.

M1.40



9/16/2024

MECHANICAL NOTES:	
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LEGEND:	
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②	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.



1 **BUILDING D - 1ST FLOOR PLAN**
HVAC
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

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SHEET NAME
BUILDING D - FIRST FLOOR
PLAN - HVAC
SHEET NO.

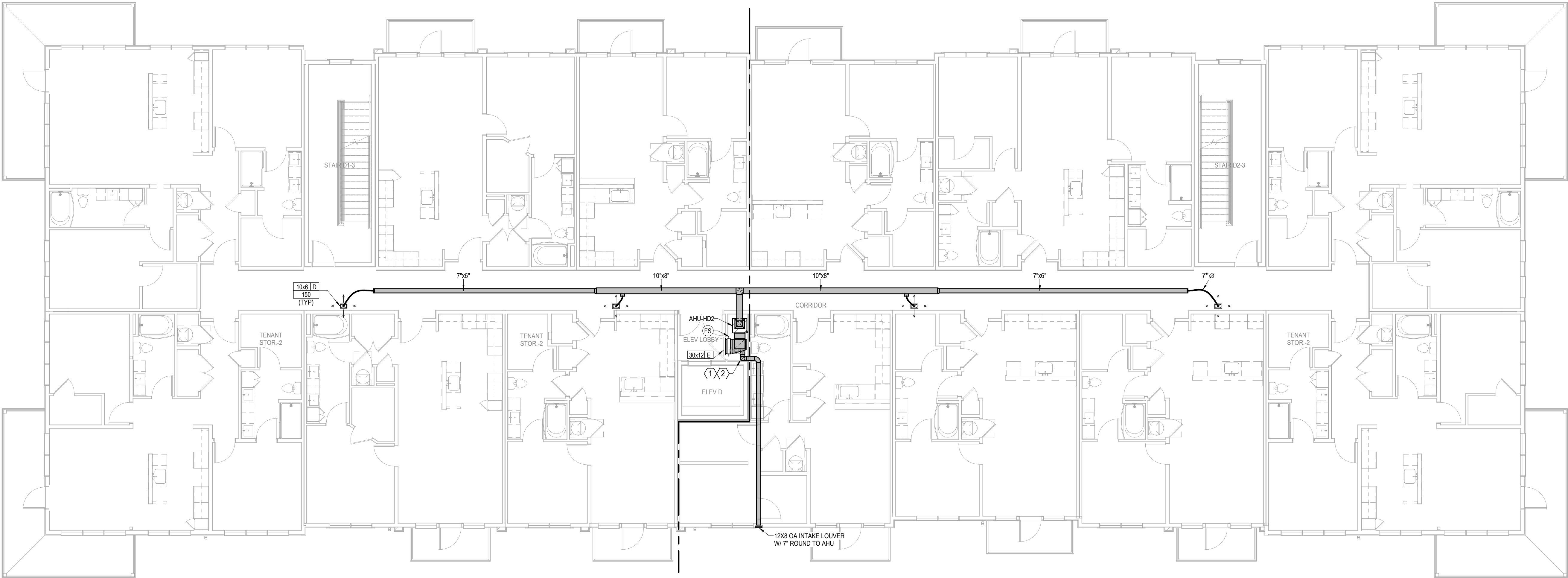
M1.41

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LSA PROJECT NO. 2404027



9/16/2024

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LEGEND:	
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②	PROVIDE CEILING RADIATION DAMPER AT RATED MEMBRANE CEILING.



1 **BUILDING D - 2ND FLOOR PLAN**
HVAC
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
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SHEET NAME
BUILDING D - SECOND
FLOOR PLAN - HVAC
SHEET NO.

M1.42

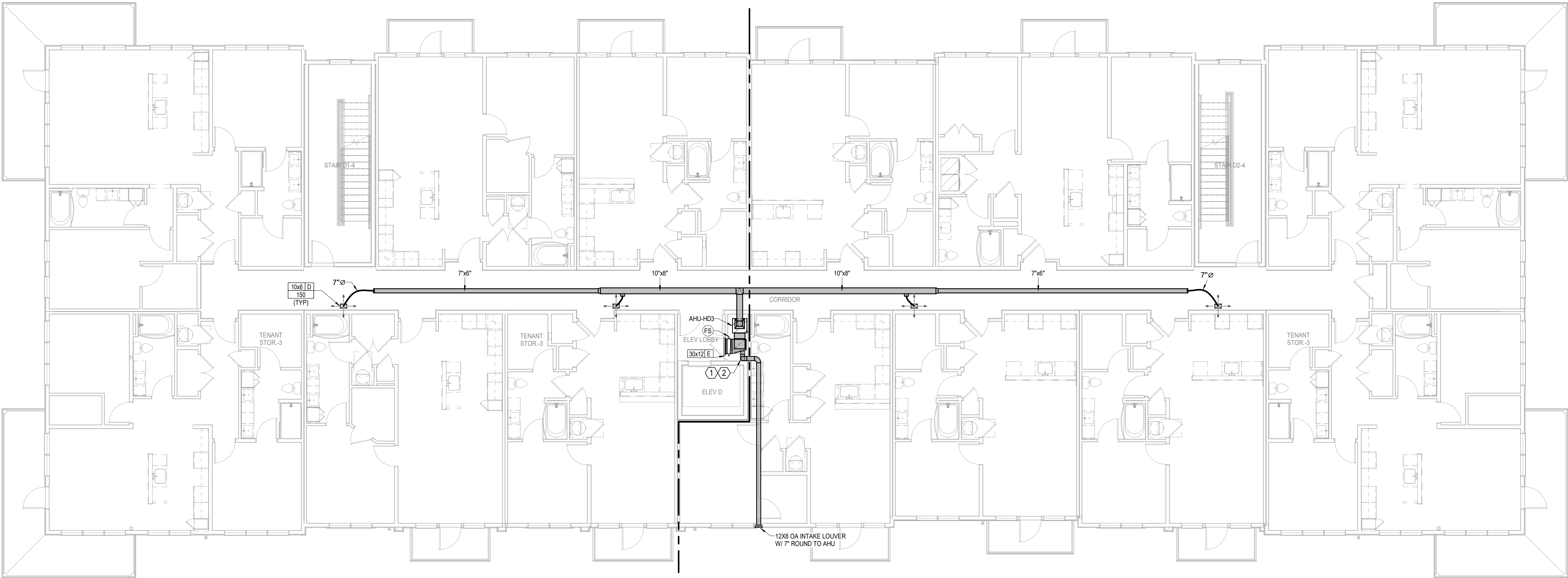
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1 BUILDING D - 3RD FLOOR PLAN
HVAC
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

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SHEET NAME
BUILDING D - THIRD FLOOR
PLAN - HVAC
SHEET NO.

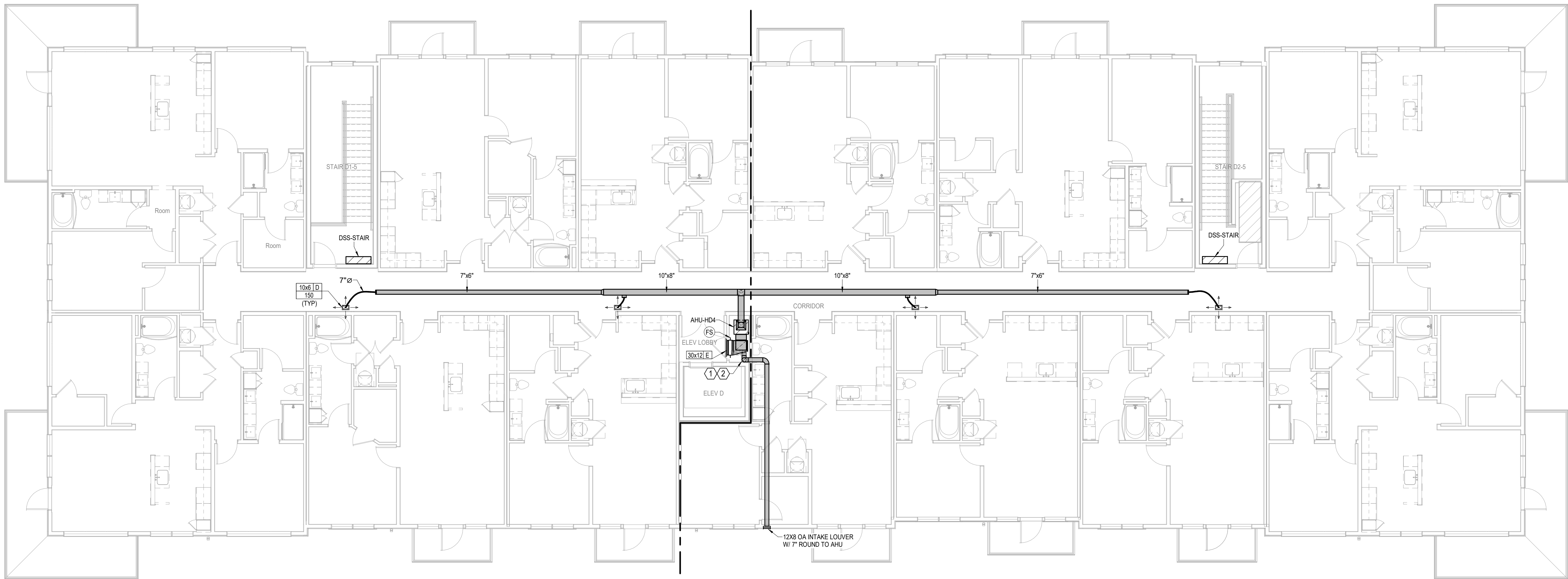
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1 BUILDING D - 4TH FLOOR PLAN
HVAC
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

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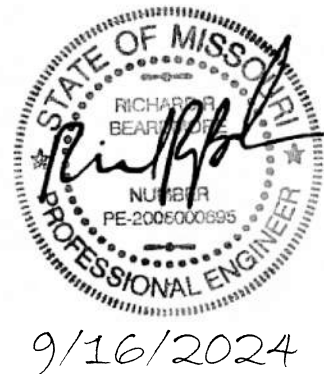
REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING D - FOURTH
FLOOR PLAN - HVAC
SHEET NO.

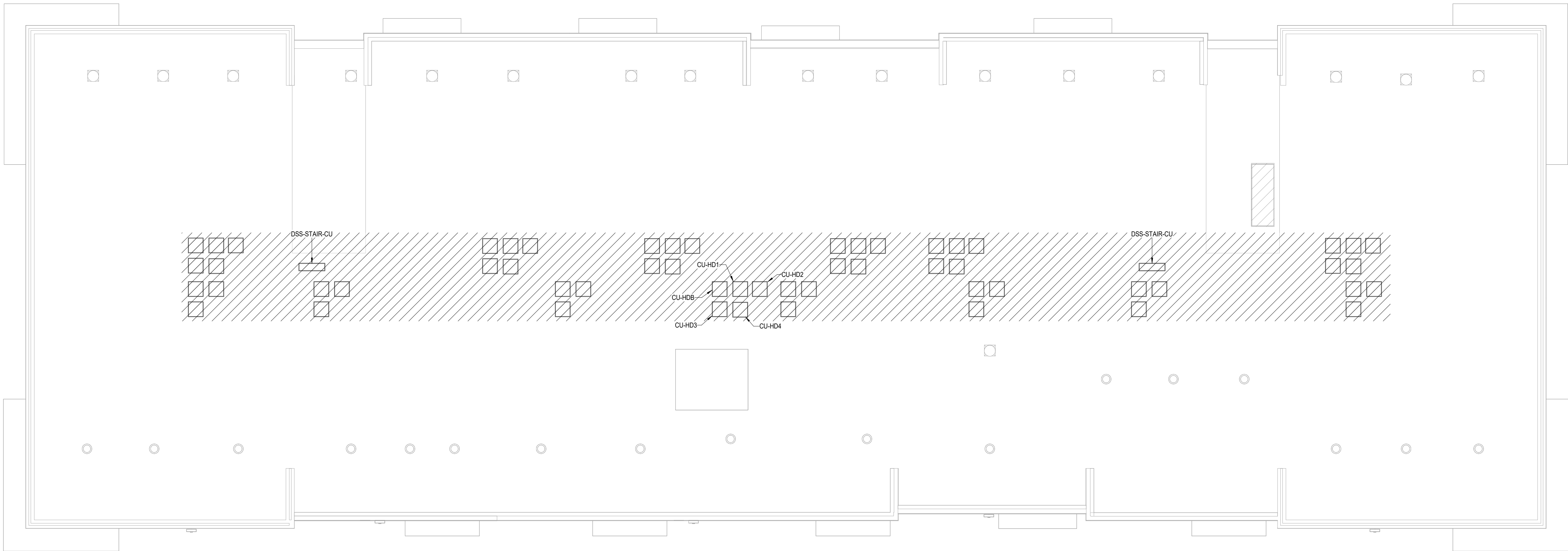
M1.44

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1 BUILDING D - ROOF PLAN
HVAC
1/8" = 1'-0"

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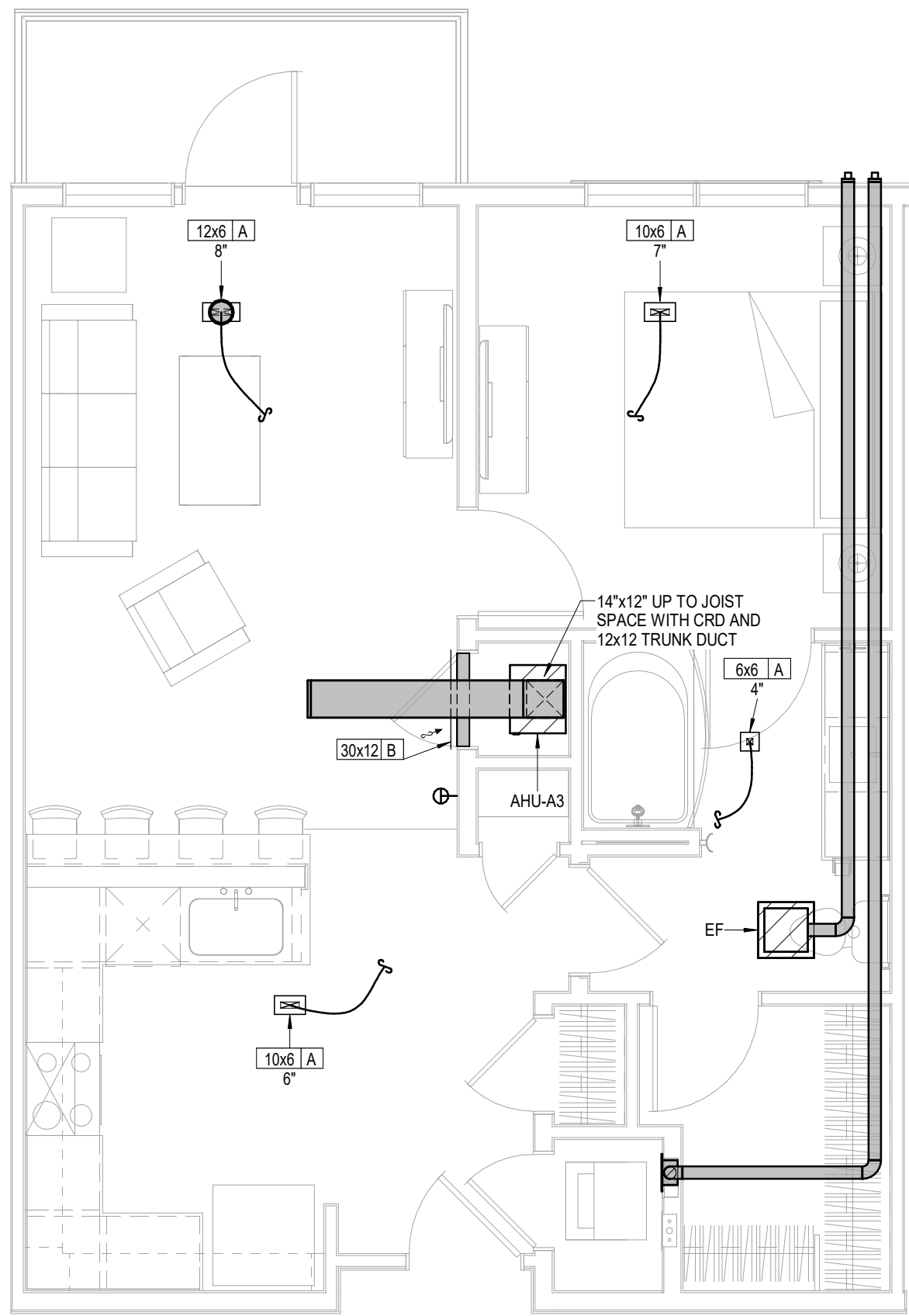
REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

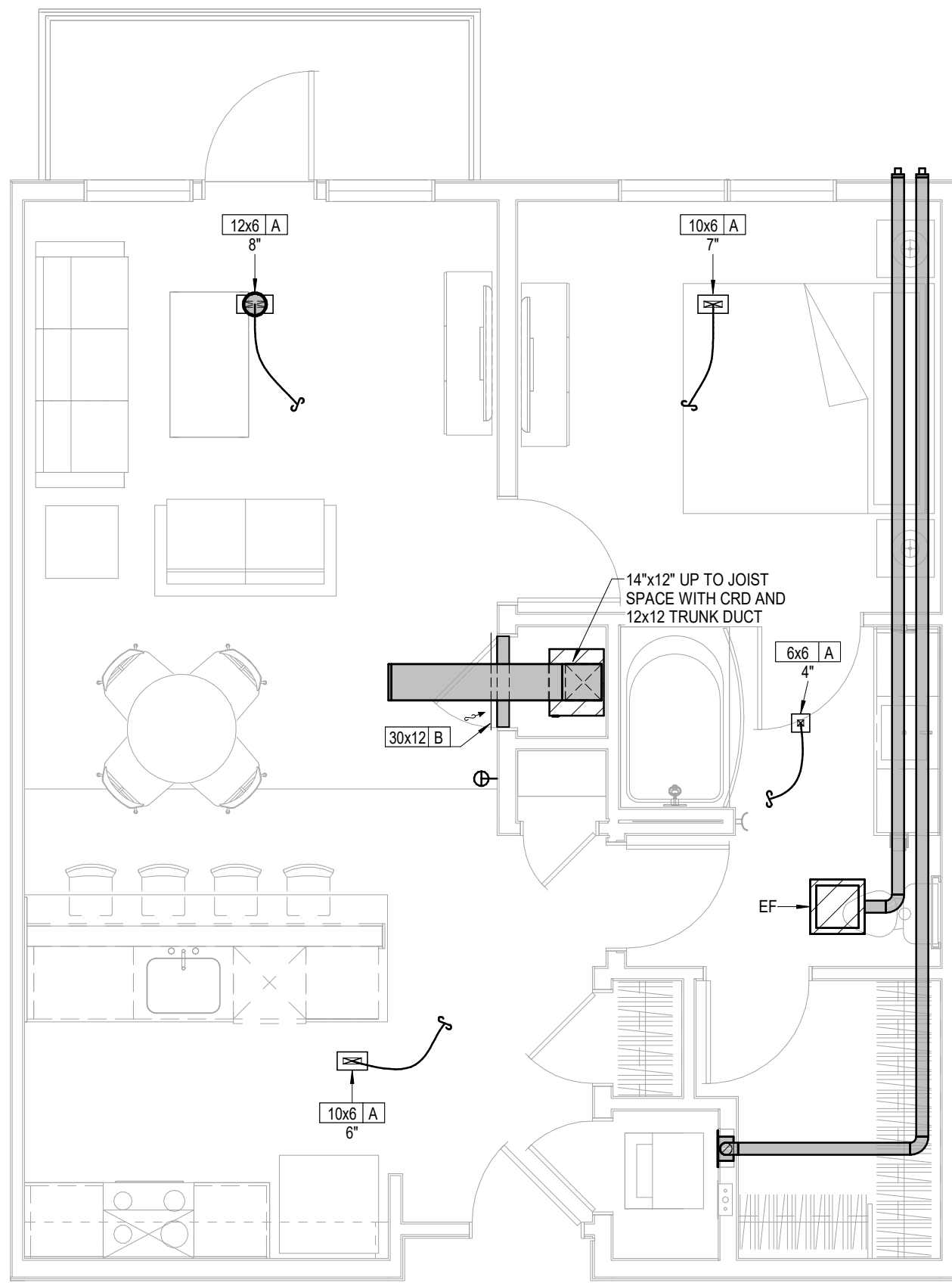
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BUILDING D - ROOF PLAN - HVAC
SHEET NO.

M1.45

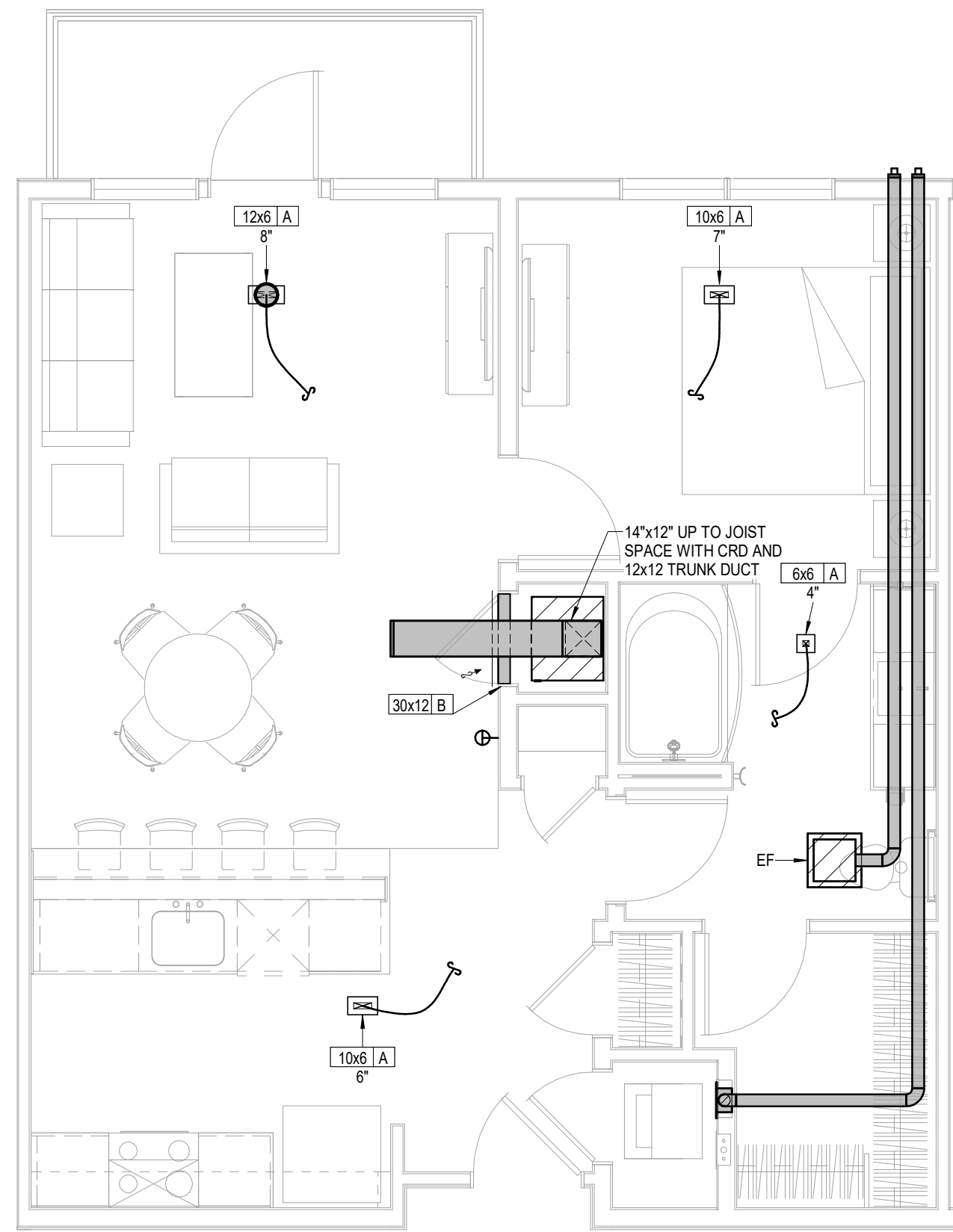
LS&A
Latimer Sommers
& Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
624 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (765) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027



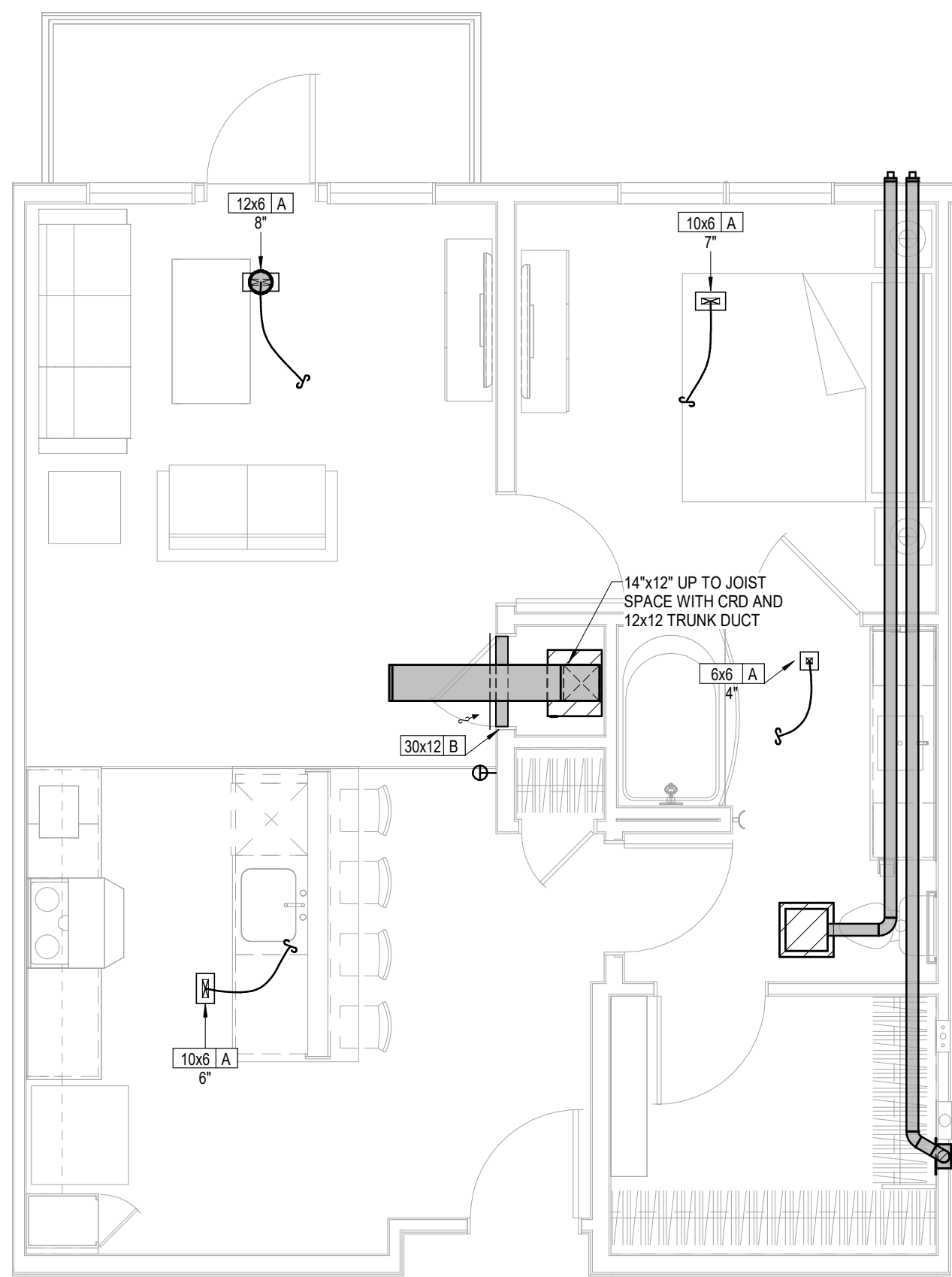
1 **UNIT A3**
HVAC
1/4" = 1'-0"



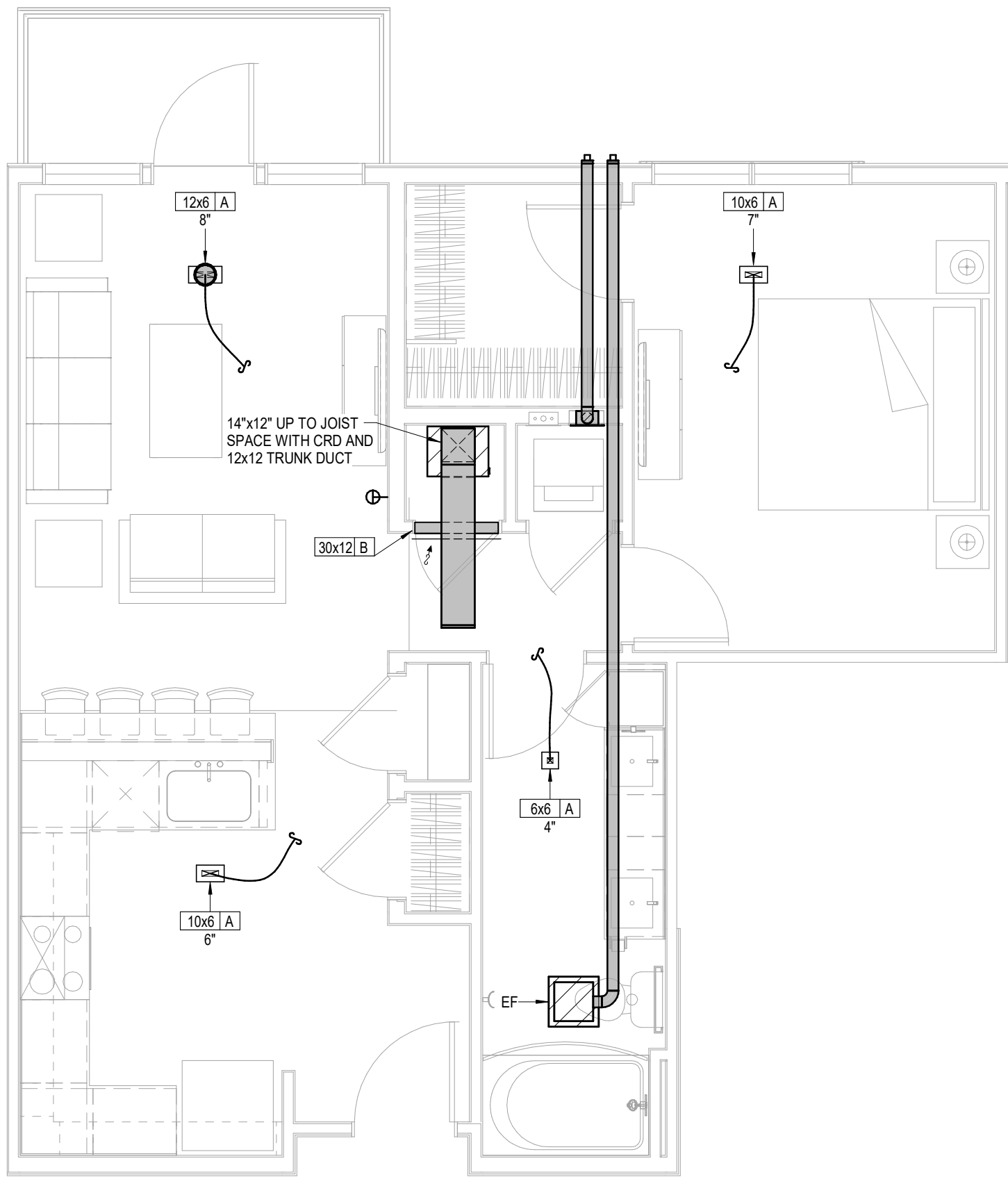
2 **UNIT A6**
HVAC
1/4" = 1'-0"



3 **UNIT A6 ALT**
HVAC
1/4" = 1'-0"

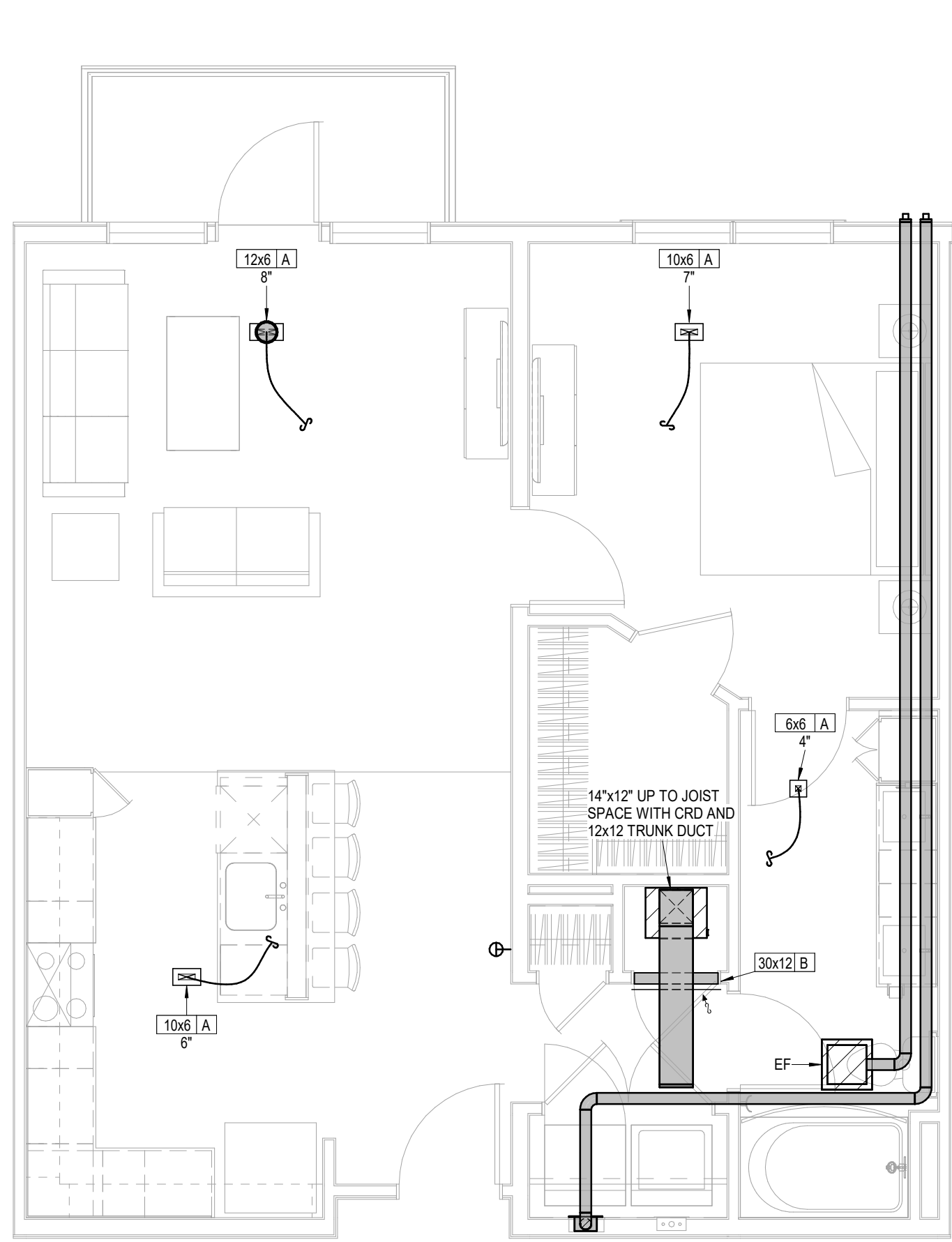


4 **UNIT A6 TYPE A**
HVAC
1/4" = 1'-0"

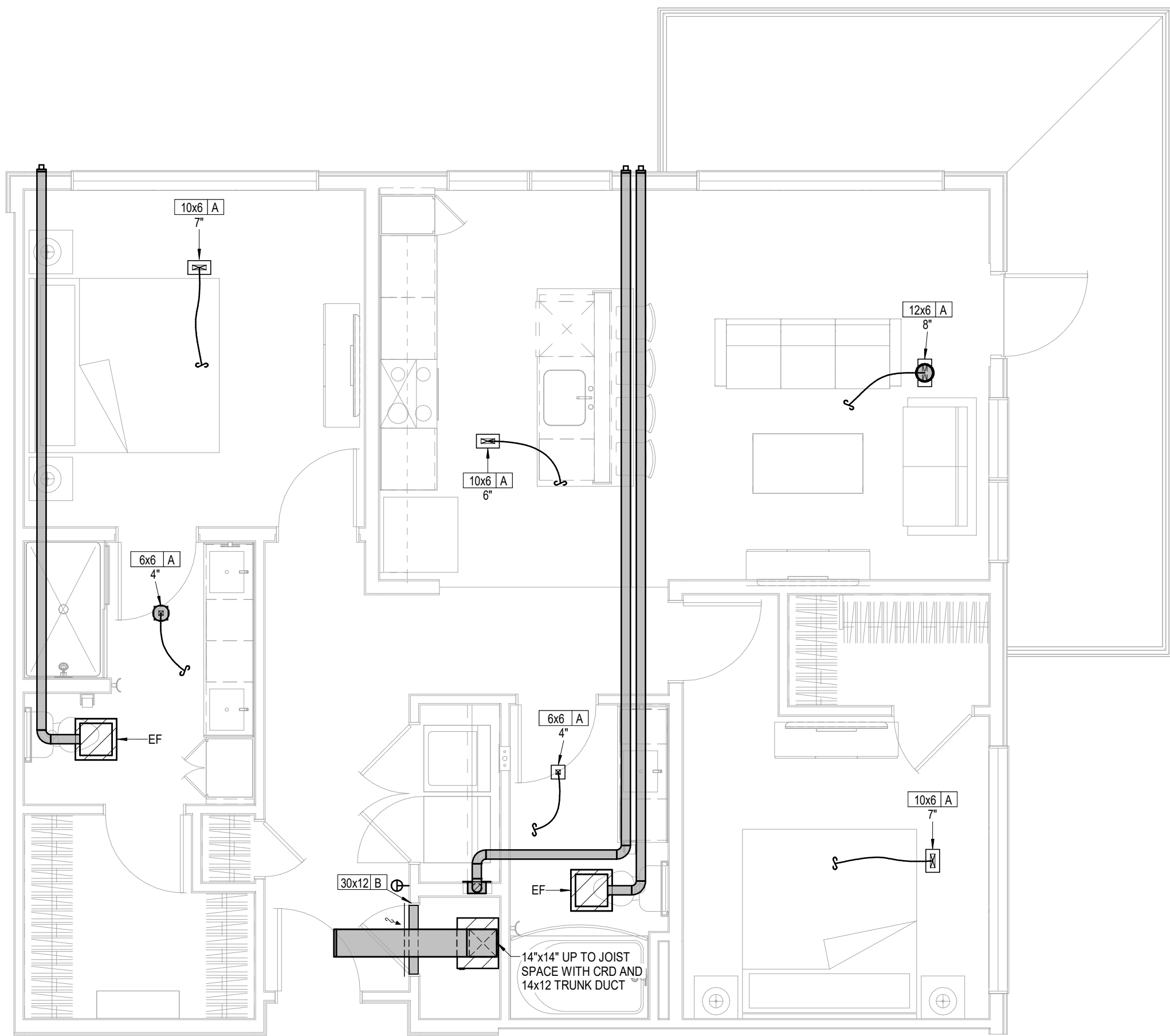


5 **UNIT A7**
HVAC
1/4" = 1'-0"

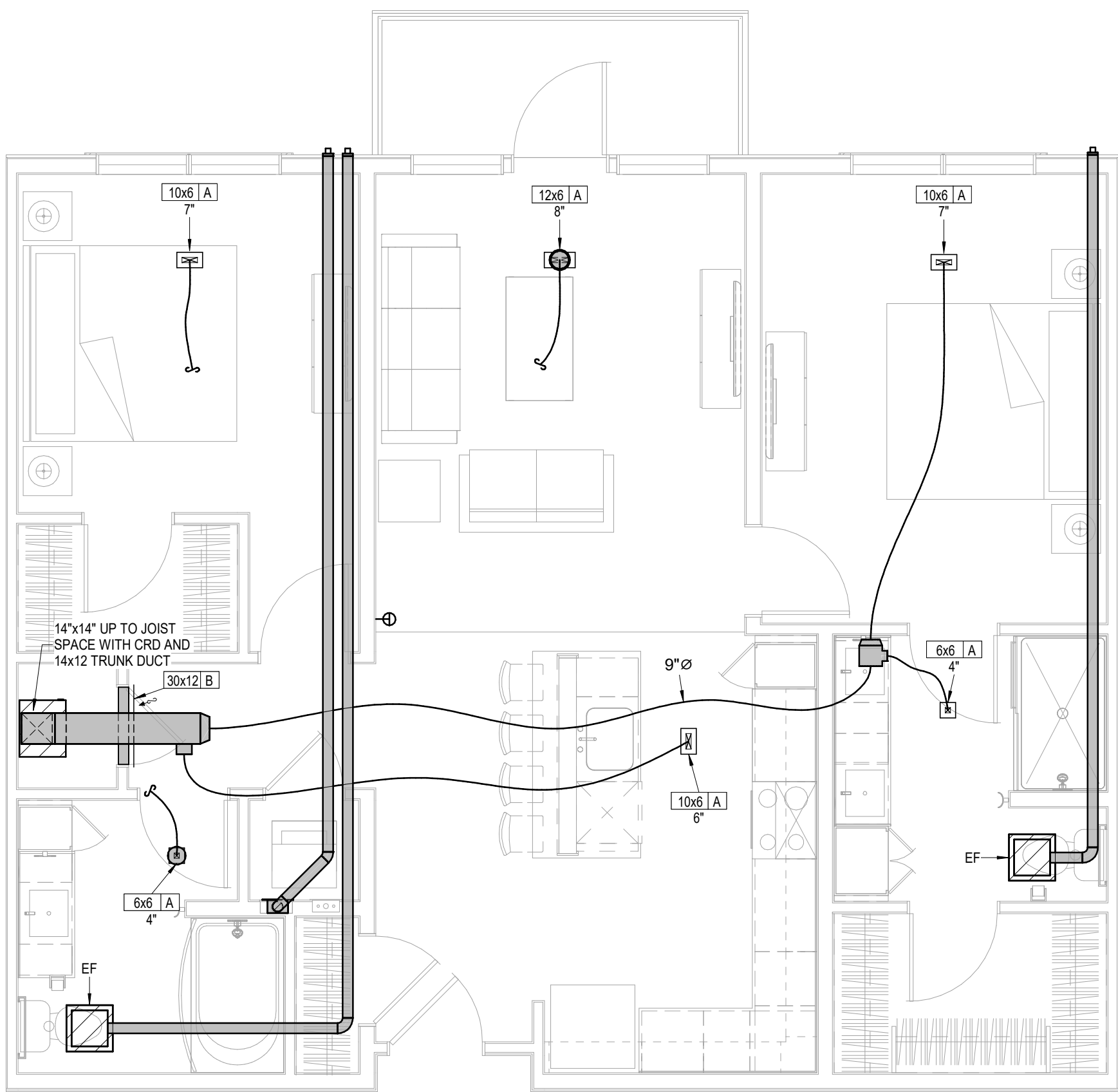
- UNIT MECHANICAL NOTES:**
1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHUS AND WATER HEATERS.
 3. ALL CONDENSING UNITS ARE ROOF MOUNTED.
 4. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 5. PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 6. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 7. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
 8. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 9. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 10. SE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 12. TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 13. DRAIN AHUs AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



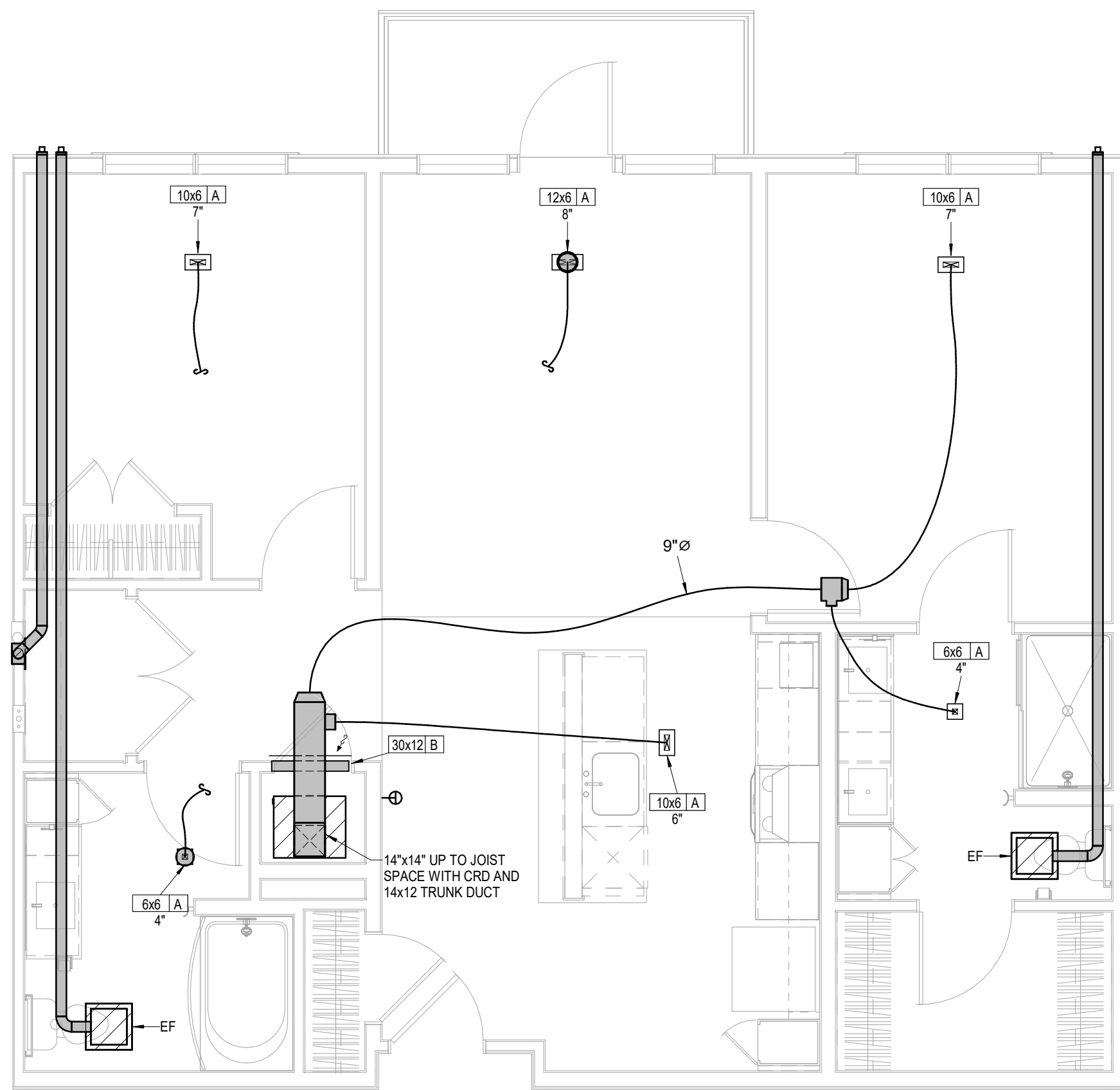
1 **UNIT A9**
HVAC
1/4" = 1'-0"



2 **UNIT B3A**
HVAC
1/4" = 1'-0"



3 **UNIT B3B**
HVAC
1/4" = 1'-0"



4 **UNIT B3B TYPE A**
HVAC
1/4" = 1'-0"

- UNIT MECHANICAL NOTES:**
- ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 - PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHUS AND WATER HEATERS.
 - ALL CONDENSING UNITS ARE ROOF MOUNTED.
 - MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 - PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 - GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 - MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
 - ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 - EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 - SE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 - TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 - TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 - DRAIN AHUs AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.

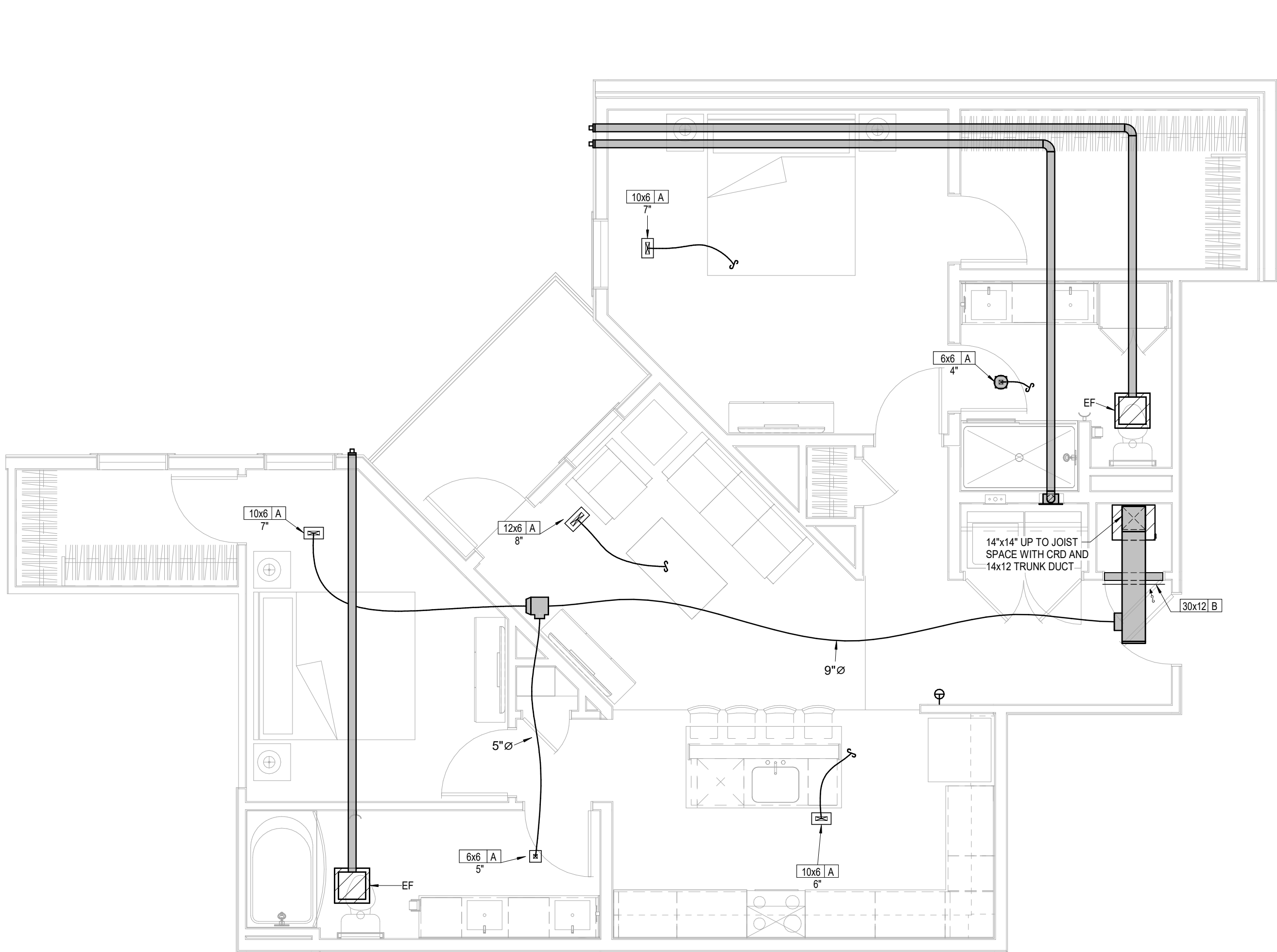


9/16/2024

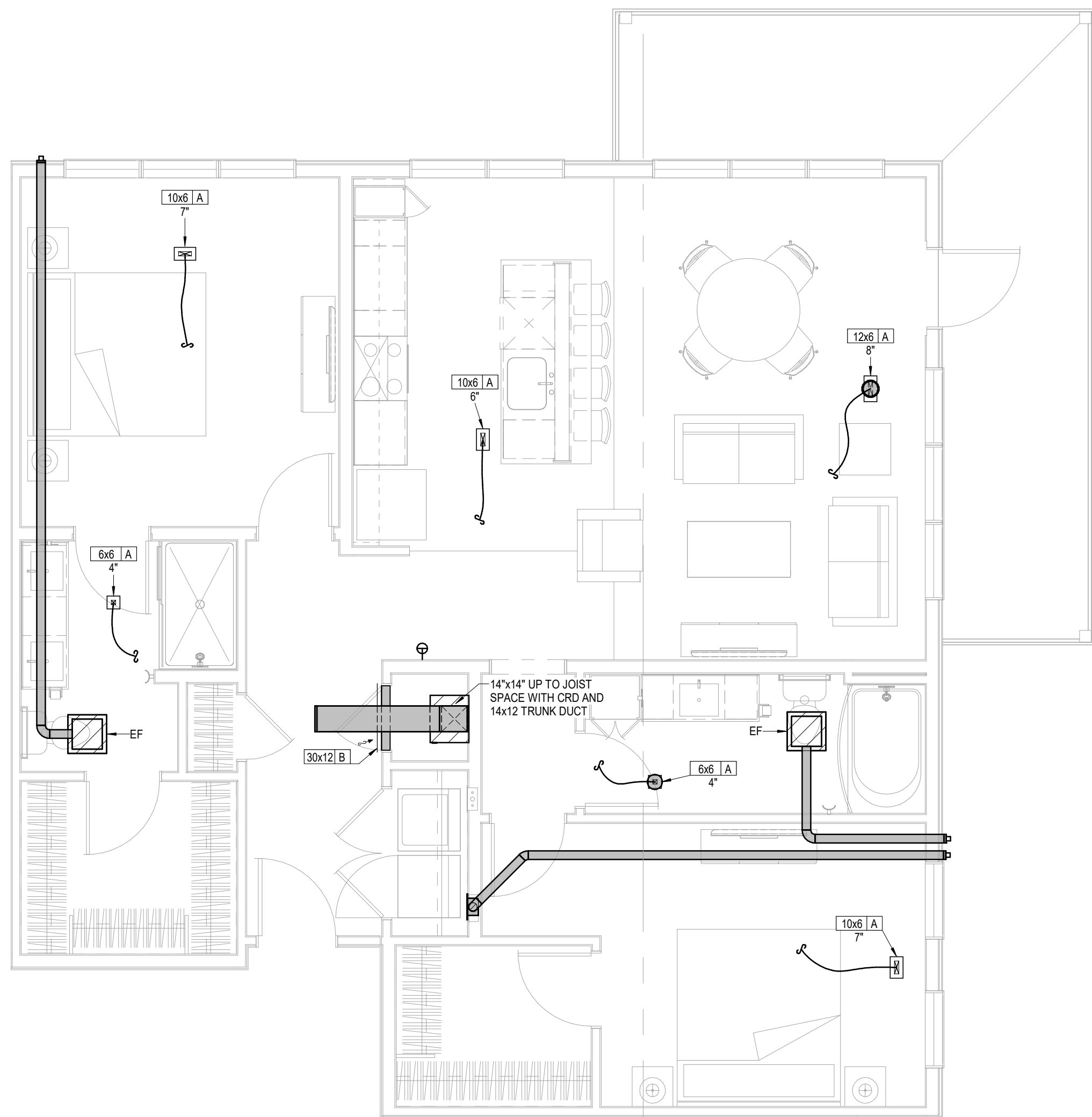


9/16/2024

- UNIT MECHANICAL NOTES:
1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHUS AND WATER HEATERS.
 3. ALL CONDENSING UNITS ARE ROOF MOUNTED.
 4. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 5. PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 6. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 7. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
 8. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 9. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 10. SE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 12. TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 13. DRAIN AHUs AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



1 **UNIT B6**
HVAC
1/4" = 1'-0"



2 **UNIT B9**
HVAC
1/4" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

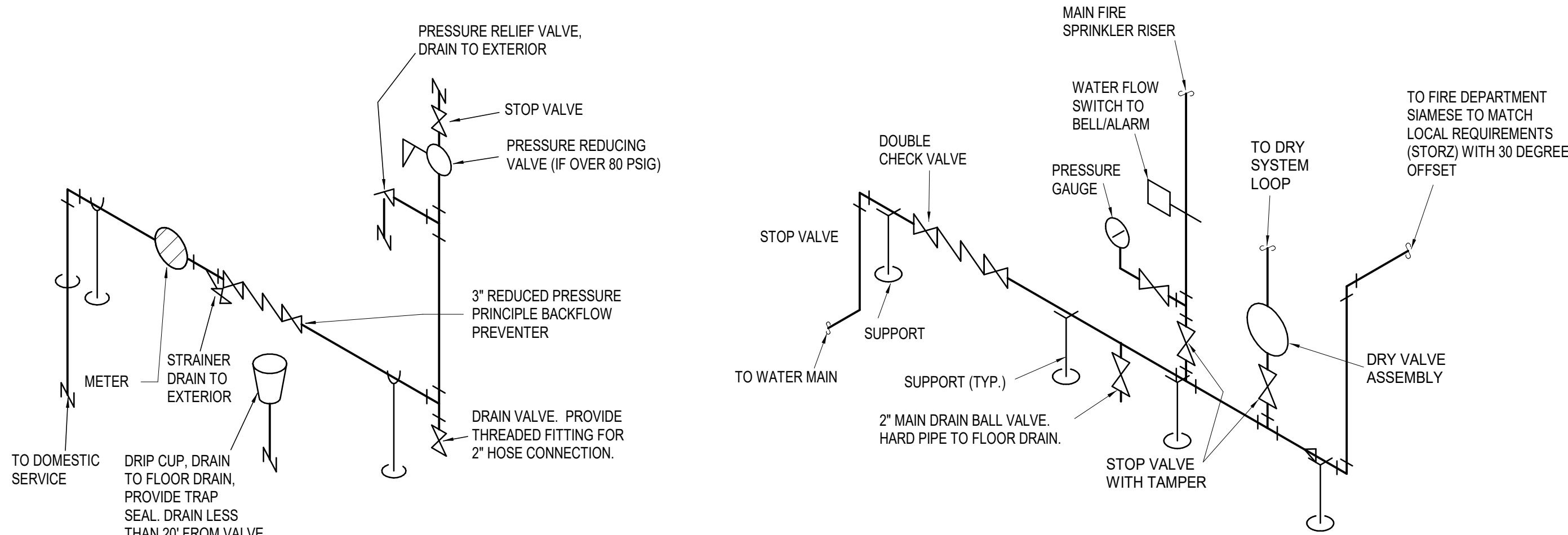


JOB NO.
720522
DRAWN BY
Author
PERMIT SET

SHEET NAME
MECHANICAL UNITS

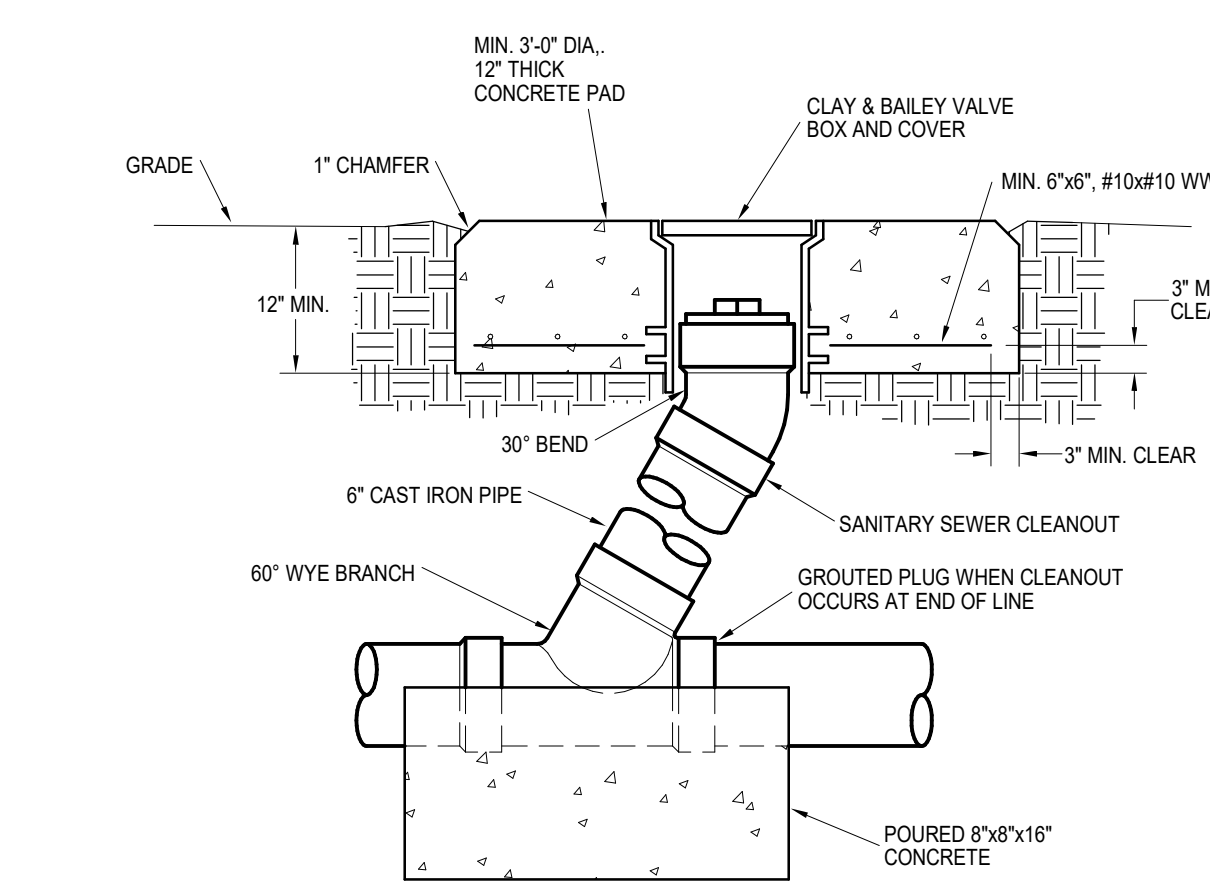
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M2.03

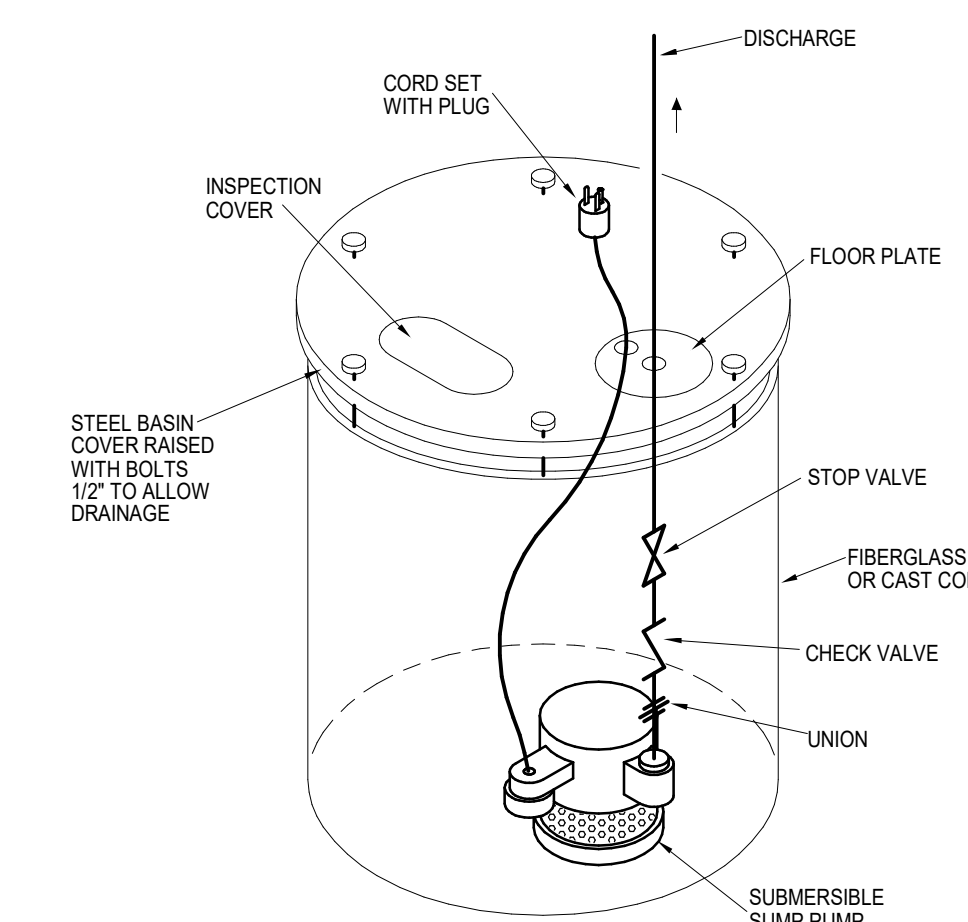


1 DOMESTIC WATER RISER
NOT TO SCALE

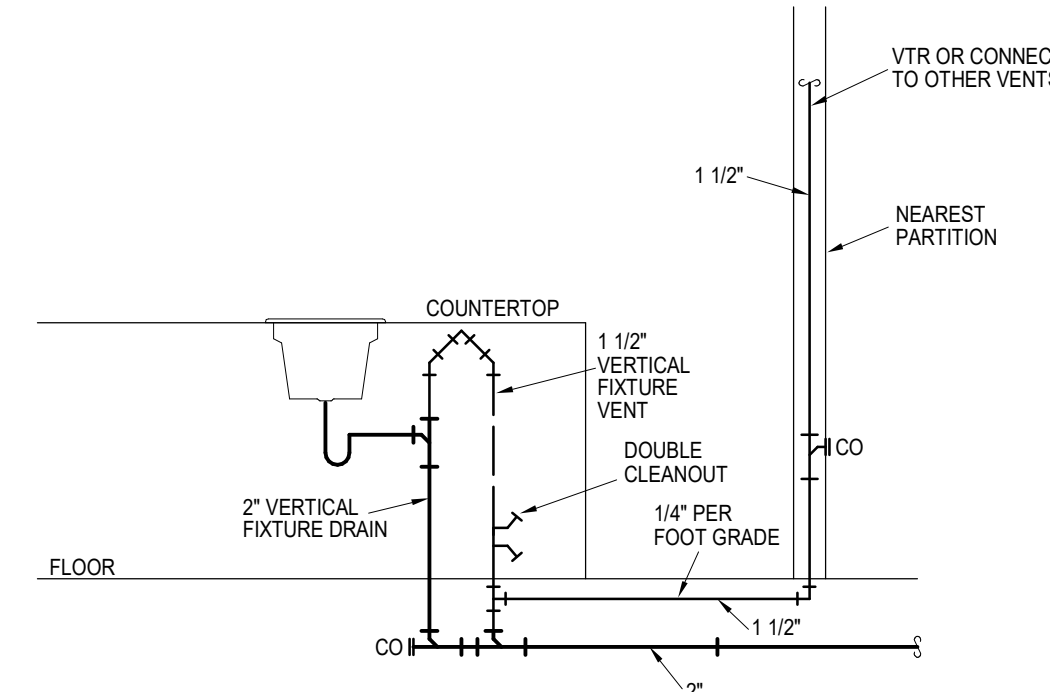
2 FIRE SUPPRESSION ENTRANCE DETAIL
NOT TO SCALE



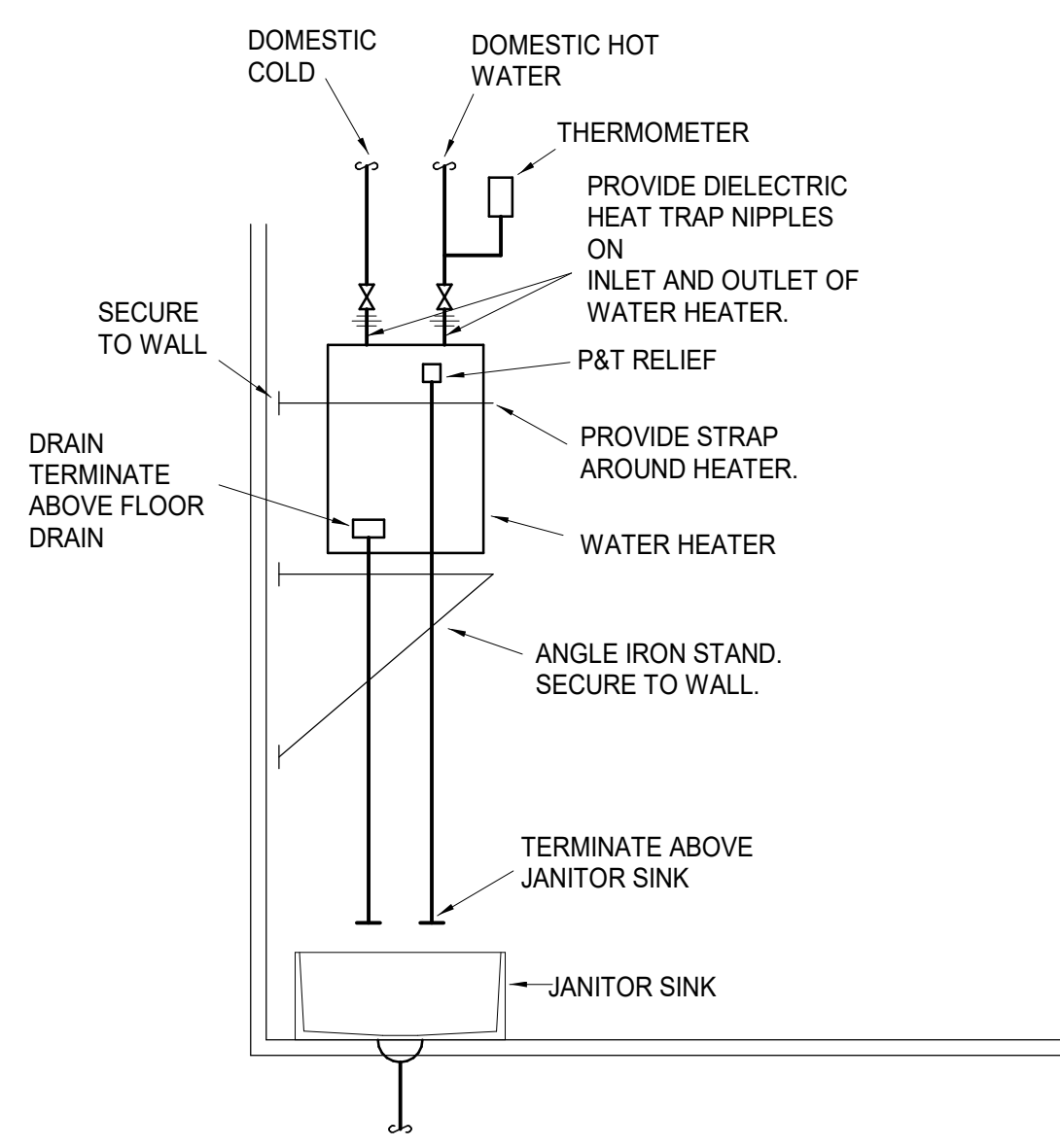
3 FLUSH GRADE CLEANOUT DETAIL
NOT TO SCALE



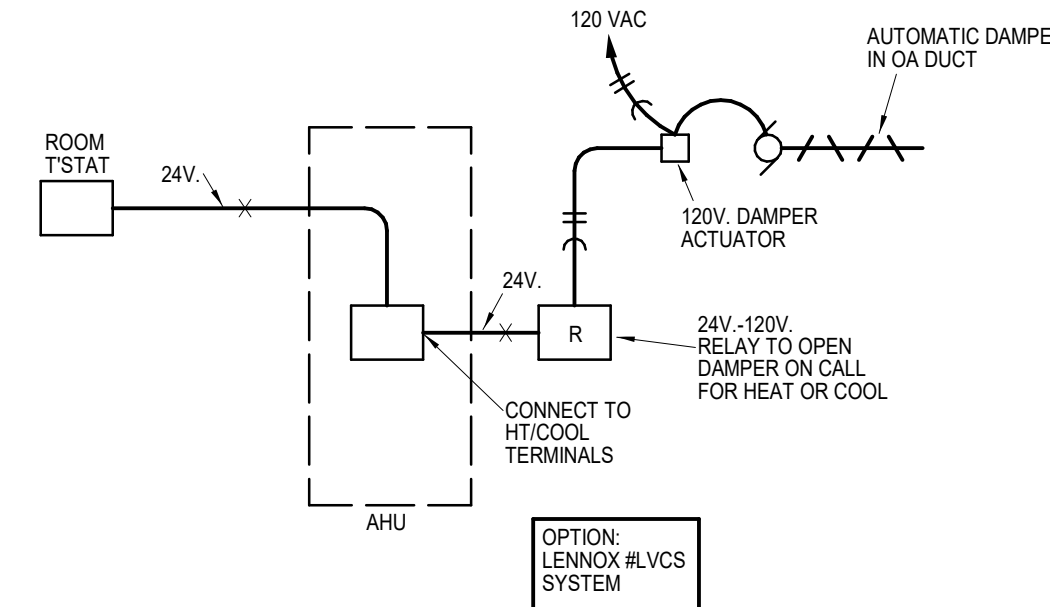
4 ELEVATOR SUMP PUMP
NOT TO SCALE



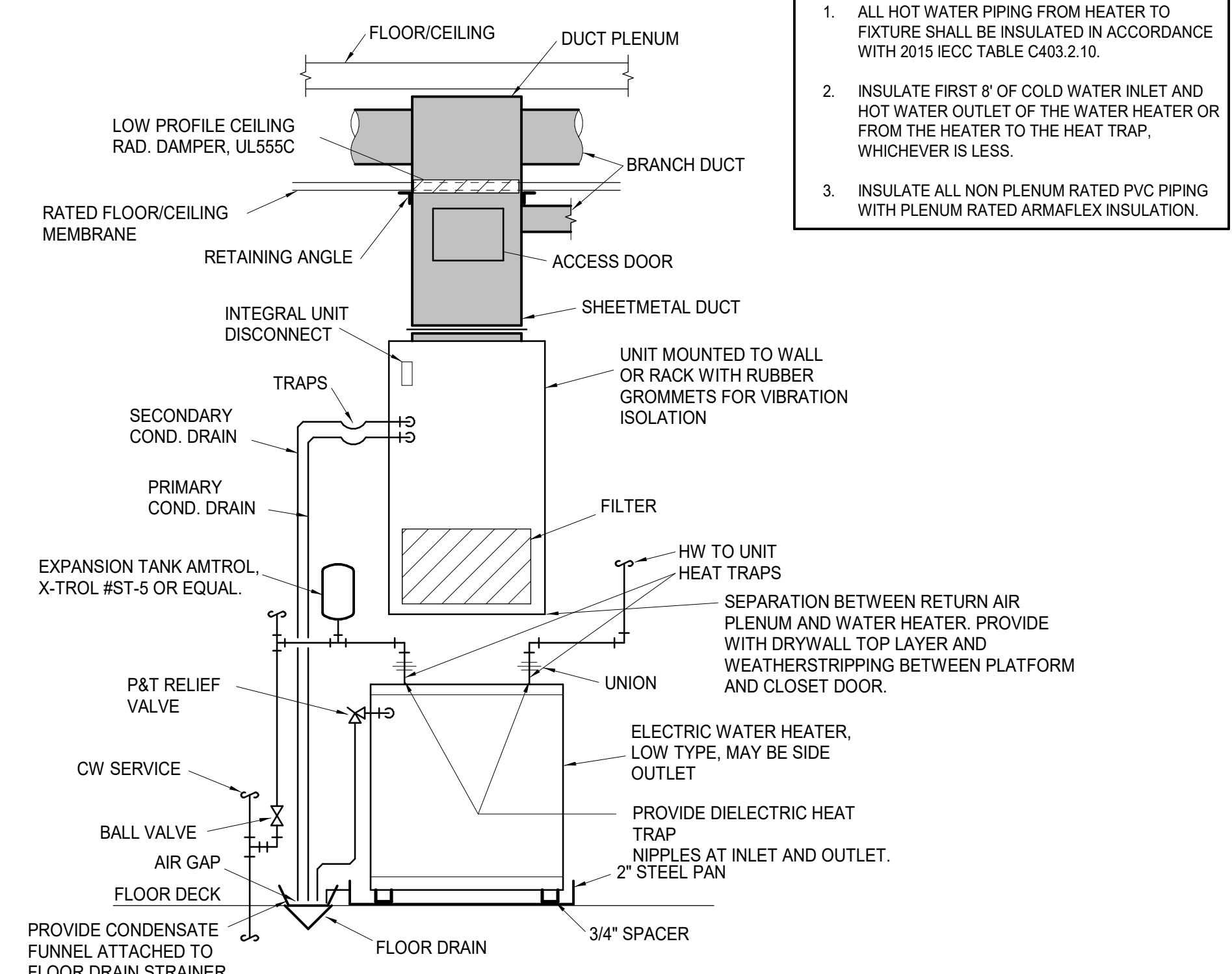
5 ISLAND VENT DETAIL
NOT TO SCALE



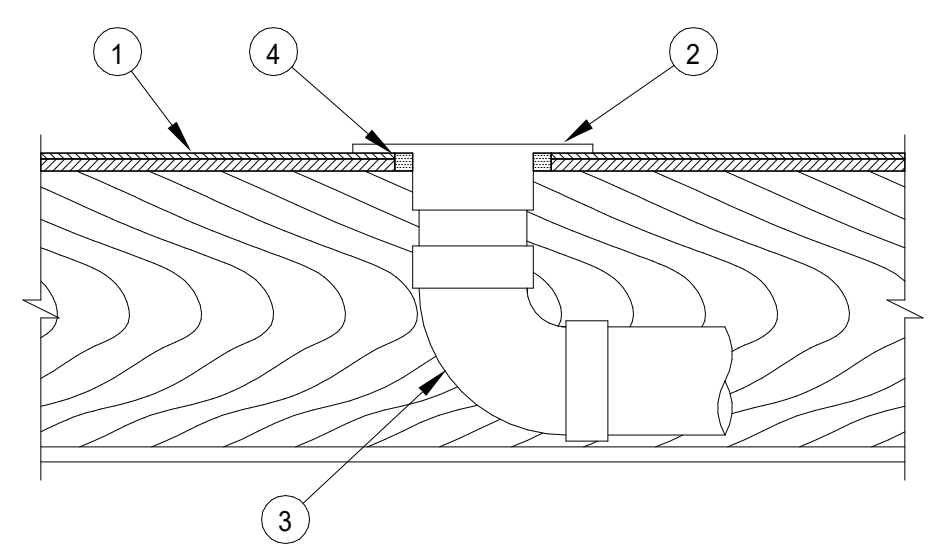
6 WATER HEATER STAND DETAIL
NOT TO SCALE



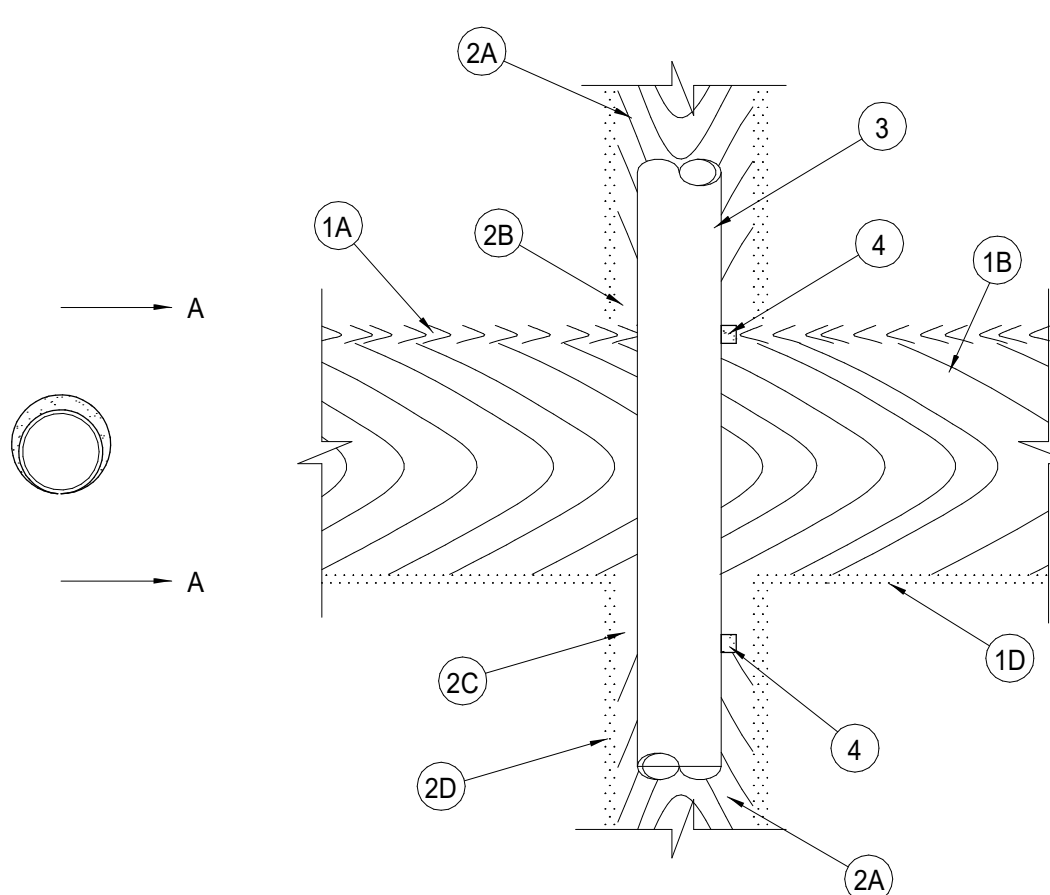
7 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NOT TO SCALE



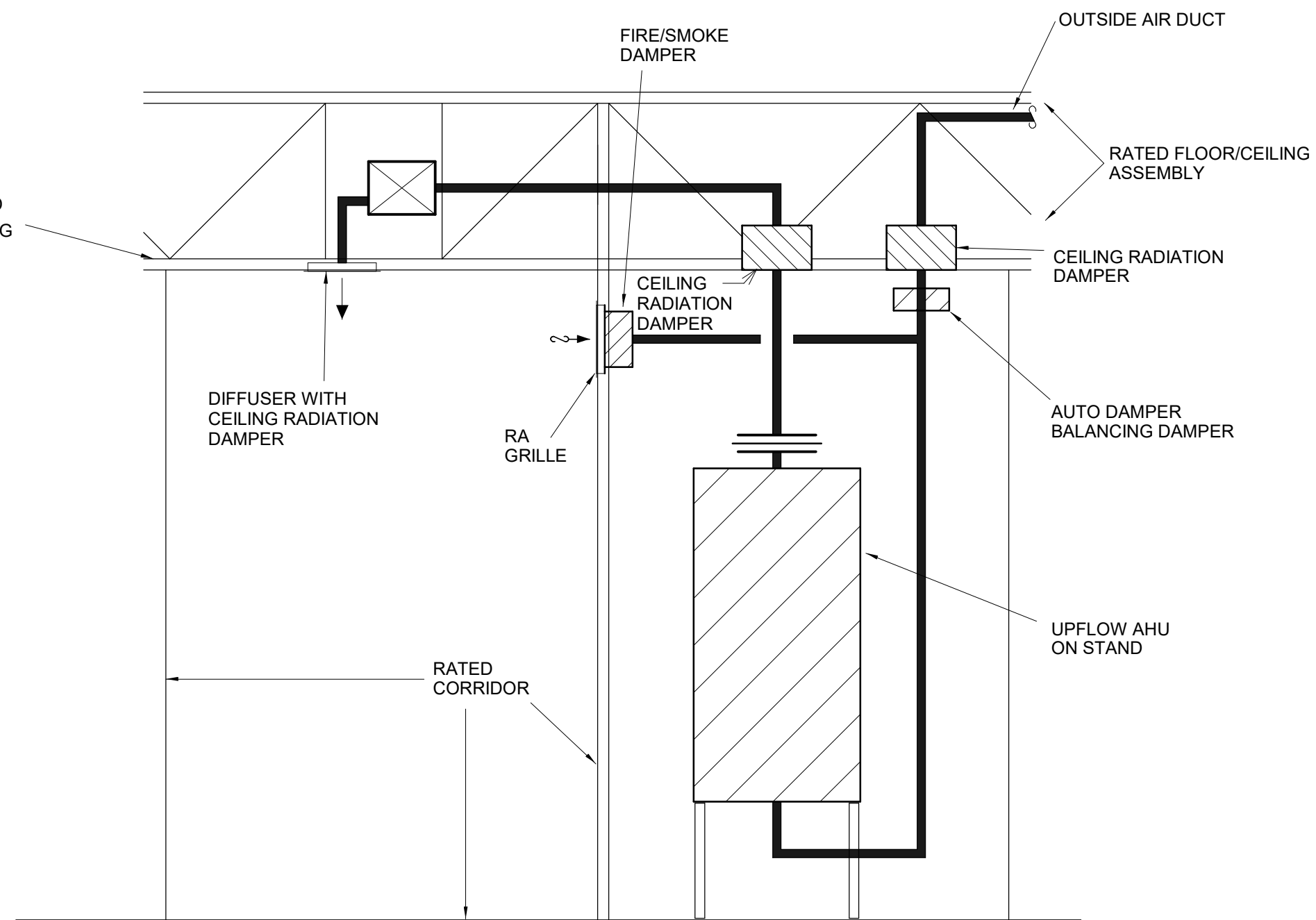
8 MECHANICAL CLOSET DETAIL
NOT TO SCALE



9 FIRE RATED PENETRATION DETAIL
NO SCALE



10 FIRE RATED PENETRATION DETAIL
NO SCALE



11 CORRIDOR AHU DETAIL - WALL RETURN (M)
NOT TO SCALE

NOTES:

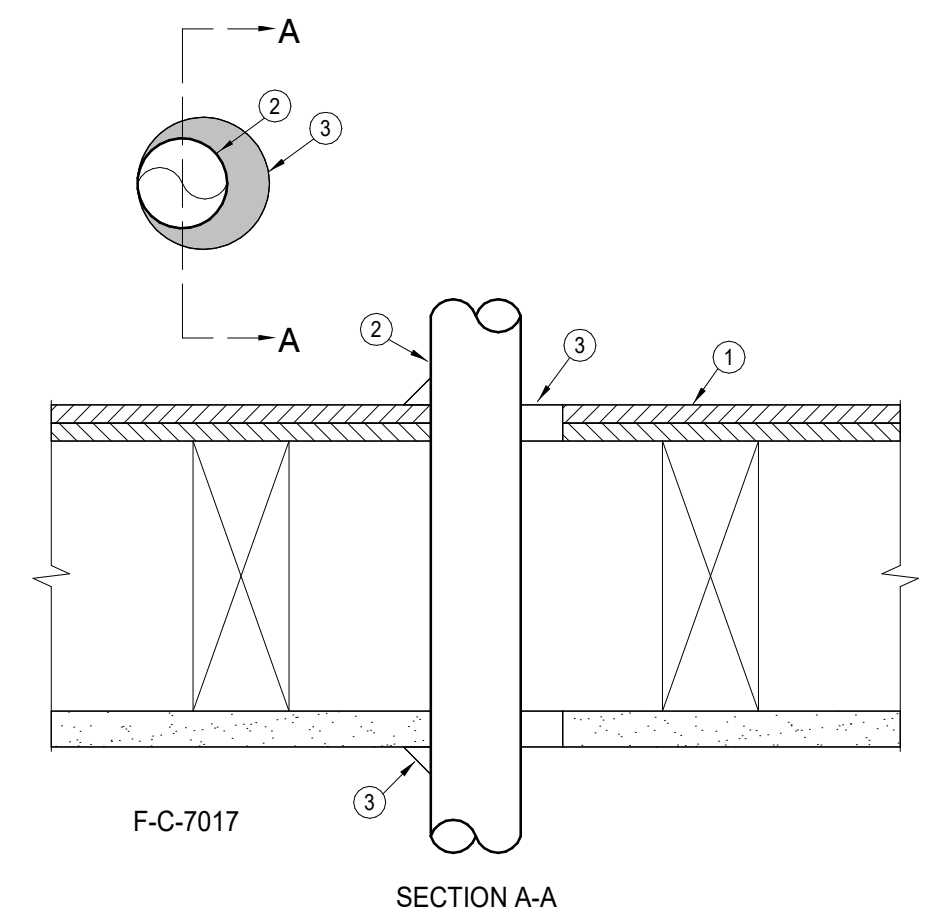
- Floor-Ceiling Assembly The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
 - Flooring System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in.
 - Wood Joists* Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 - Gypsum Board* Nom 5/8 in. thick, 4 ft wide as specified in the individual Floor-Ceiling Design.
- Closet Flange Acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) closet stub sized to accommodate drain pipe. Closet flange installed over drain piping within floor opening with flange secured to plywood floor with steel screws. Diam of circular opening through flooring (Item 1A) to be max 1/4 in. larger than outside diam of closet flange.
- Drain Piping Nom 4 in. diam (or smaller) Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) drain pipe and 90 degree elbow for use in vented (drain, waste or vent) piping systems. Pipe installed concentrically within firestop system.
- Fill, Void or Cavity Materials--Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with the bottom surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant
- Water Closet (Not Shown)--Floor mounted vitreous china water closet.
*Bearing the UL Classification Mark

NOTES:

- Floor-Ceiling Assembly The fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
 - Flooring System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 3 in.
 - Wood Joists Nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required with ends firestopped.
 - Furring Channels (Not shown) - Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.
 - Gypsum Board* Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design.
- Chase Wall The through penetrant (Item 3) shall be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs Nom 2 by 4 in. lumber studs.
 - Sole Plate Nom 2 by 4 in. lumber plates.
 - Top Plate The double top plate shall consist of two nom 2 by 4 in. lumber plates. Max diam of opening is 3 in.
 - Gypsum Board* Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
- Through - Penetrants One nonmetallic pipe to be installed either eccentrically or concentrically within the firestop system. The annular space between the through penetrant and the periphery of the opening shall be a min 0 in. (point contact) to a max of 5/8 in. Pipe to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Fill, Void or Cavity Material* -- Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor and flush with bottom surface of lower top plate.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS - ONE Sealant
*Bearing the UL Classification Marking

ARCH E1 30' x 42'

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FIRE STOP SYSTEM F-C-7017 DETAIL

LEGEND:

1 FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL L500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW.

A. FLOORING SYSTEM - LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX. DIAMETER OF OPENING IS 8" (127mm)

B. WOOD JOISTS - NOM 10" (254mm) DEEP OR DEEPER LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED AND WITH ENDS FIRE STOPPED.

C. GYPSUM BOARD* - NOM 4" (102mm) WIDE BY 5/8" (15mm) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. GYPSUM BOARD SECURED TO WOOD JOISTS OR FLOORING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm)

2 CHASE WALL (OPTIONAL, NOT SHOWN) - THE DUCT (ITEM 2) MAY BE ROUTED THROUGH A FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM BOARD CHASE WALL HAVING A FIRE RATING CONSISTENT WITH THAT OF THE FLOOR-CEILING ASSEMBLY. THE CHASE WALL SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL L500 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - NOM 2" BY 6" (51mm BY 152mm) OR DOUBLE NOM 2" BY 4" (51mm BY 102mm) LUMBER STUDS

B. SOLE PLATE - NOM 2" BY 6" (51mm BY 152mm) OR PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED

C. TOP PLATE - THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2" BY 6" (51mm BY 152mm) OR TWO SETS OF PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED. MAX OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm)

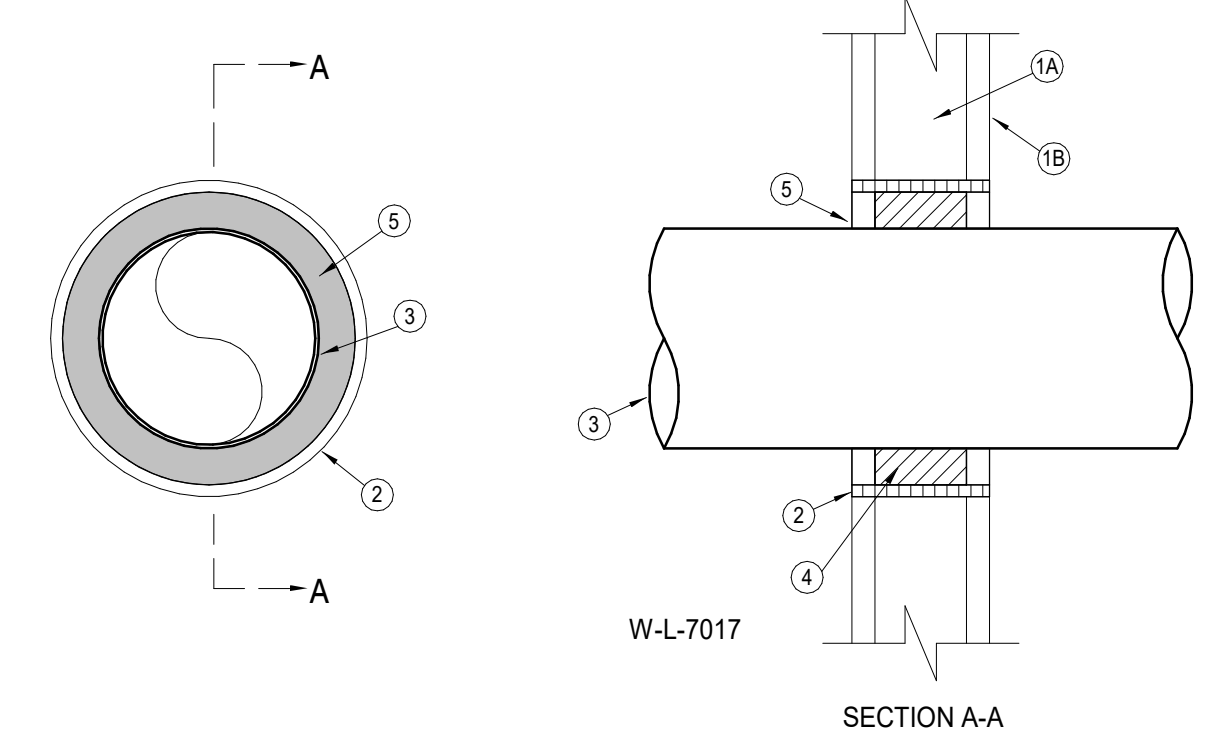
D. GYPSUM BOARD* - THICKNESS TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN

3 STEEL DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL DUCT TO BE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (0mm) (POINT CONTACT) TO MAX. 2" (51mm) DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY.

4 FILL VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN. 3/4" (19mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACES OF FLOOR OR SOLE PLATE. MIN. 5/8" (16mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING OR TOP PLATE. MIN. 1/2" (13mm) DIAMETER BEAD OF CAULK APPLIED AT THE DUCT/FLOOR OR SOLE PLATE INTERFACE AT POINT CONTACT LOCATION ON THE TOP SIDE OF ASSEMBLY AND AT THE DUCT/CEILING OR TOP PLATE INTERFACE AT POINT CONTACT LOCATION ON BOTTOM SIDE OF ASSEMBLY.

3M COMPANY - FIRE DAM 150+ CP 25WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARK.



FIRE STOP SYSTEM W-L-7017 DETAIL

LEGEND:

1 WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL L500 OR L400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2" BY 4" LUMBER SPACED 16" O.C. STEEL STUDS TO BE MIN. 2 1/2" WIDE AND SPACED MAX. 24" O.C.

B. GYPSUM BOARD* - ONE LAYER OF NOM 5/8" THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAMETER OF OPENING IS 8 5/8"

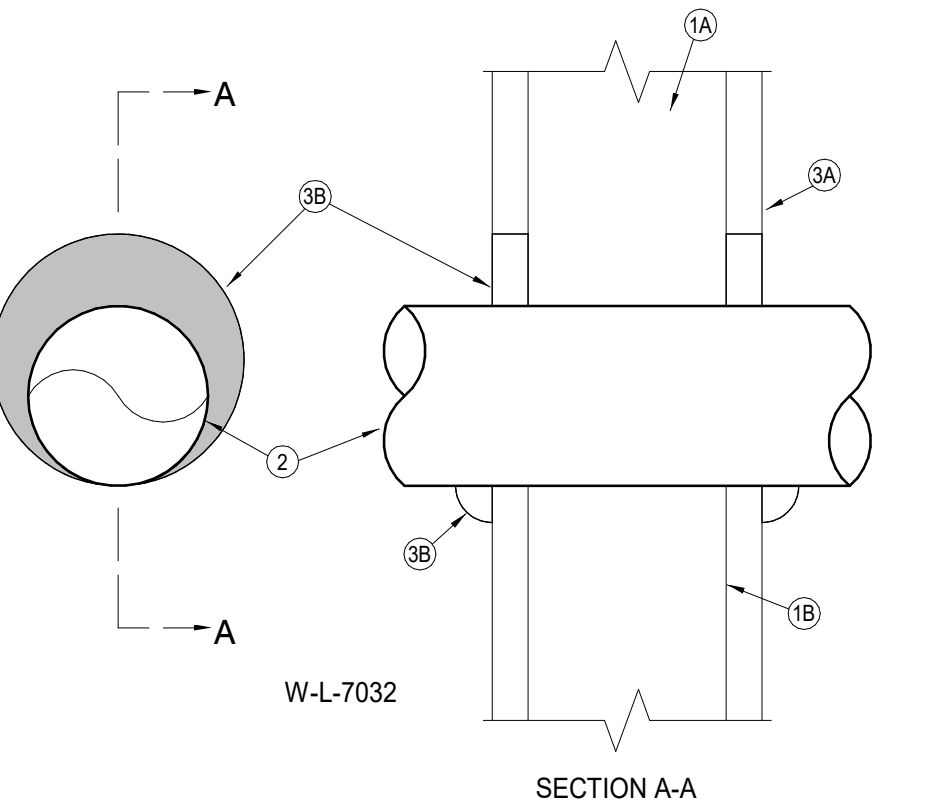
2 METALLIC SLEEVE - NOM 4" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST INTO WALL ASSEMBLY WITH JOINT COMPOUND AND INSTALLED FLUSH WITH WALL SURFACES.

3 AIR DUCT - NOM 6" DIAMETER (OR SMALLER) PREFABRICATED NO. 28 MSG GALVANIZED SHEET METAL DUCT, A MIN. 1/2" TO MAX. 1 1/2" ANNULAR SPACE IS REQUIRED WITHIN THE FIRESTOP SYSTEM. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

4 FORMING MATERIAL* - FOAMED PLASTIC FORMING MATERIAL FOAMED INTO OPENING AS A PERMANENT FORM. FORMING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

5 FILL VOID OR CAVITY MATERIAL* - MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - CPS10, CPS12 OR CPS11 FORM SEALANT.

* BEARING THE UL CLASSIFICATION MARK.



FIRE STOP SYSTEM W-L-7032 DETAIL

LEGEND:

1 WALL ASSEMBLY - THE 1HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL L500 OR L400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING SHALL CONSIST OF EITHER WOOD OR STEEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4" LUMBER SPACED MAX. 16" O.C. STEEL STUDS TO BE MIN. 3 1/2" WIDE AND SPACED MAX. 24" O.C.

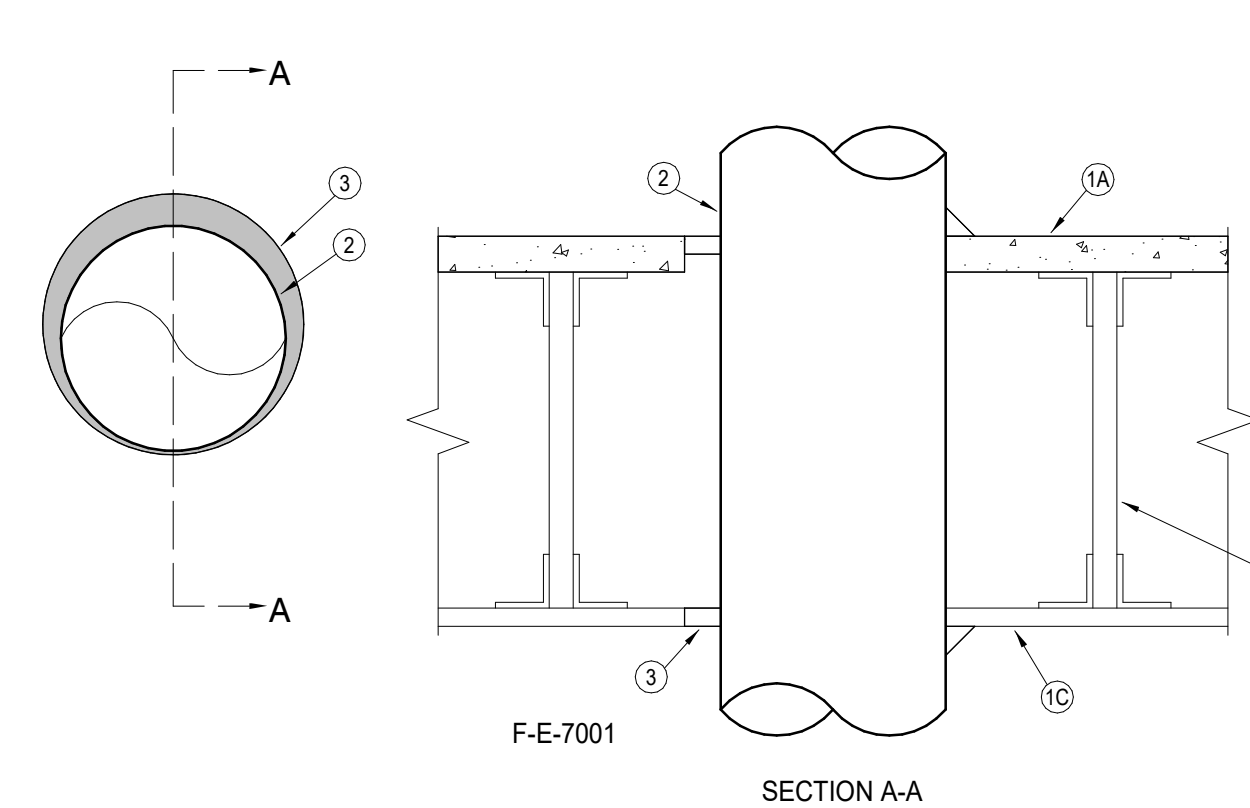
B. GYPSUM BOARD* - ONE LAYER OF MIN. 5/8" THICK WALL BOARD AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAMETER OF OPENING IS 7".

2 STEEL VENT DUCT - NOM 6" DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE OF MIN. 0" (POINT CONTACT) TO MAX. 1" IS REQUIRED WITHIN THE FIRESTOP SYSTEM. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3 FILL VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND WALLBOARD, A MIN. 1/2" DIAMETER BEAD OF SEALANT SHALL BE APPLIED AT THE WALLBOARD/DUCT INTERFACE ON BOTH SURFACES OF WALL ASSEMBLY.

3M COMPANY - CP 25WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARKING.



FIRE STOP SYSTEM F-E-7001 DETAIL

LEGEND:

1 FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED CONCRETE AND STEEL JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL G500 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:

A. FLOORING - NORMAL OR LIGHTWEIGHT CONCRETE AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (279mm)

B. JOISTS - STEEL JOISTS OR STRUCTURAL STEEL MEMBERS* AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN.

C. GYPSUM BOARD* - MIN. 5/8" (16mm) THICK, SCREW ATTACHED TO FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (279mm)

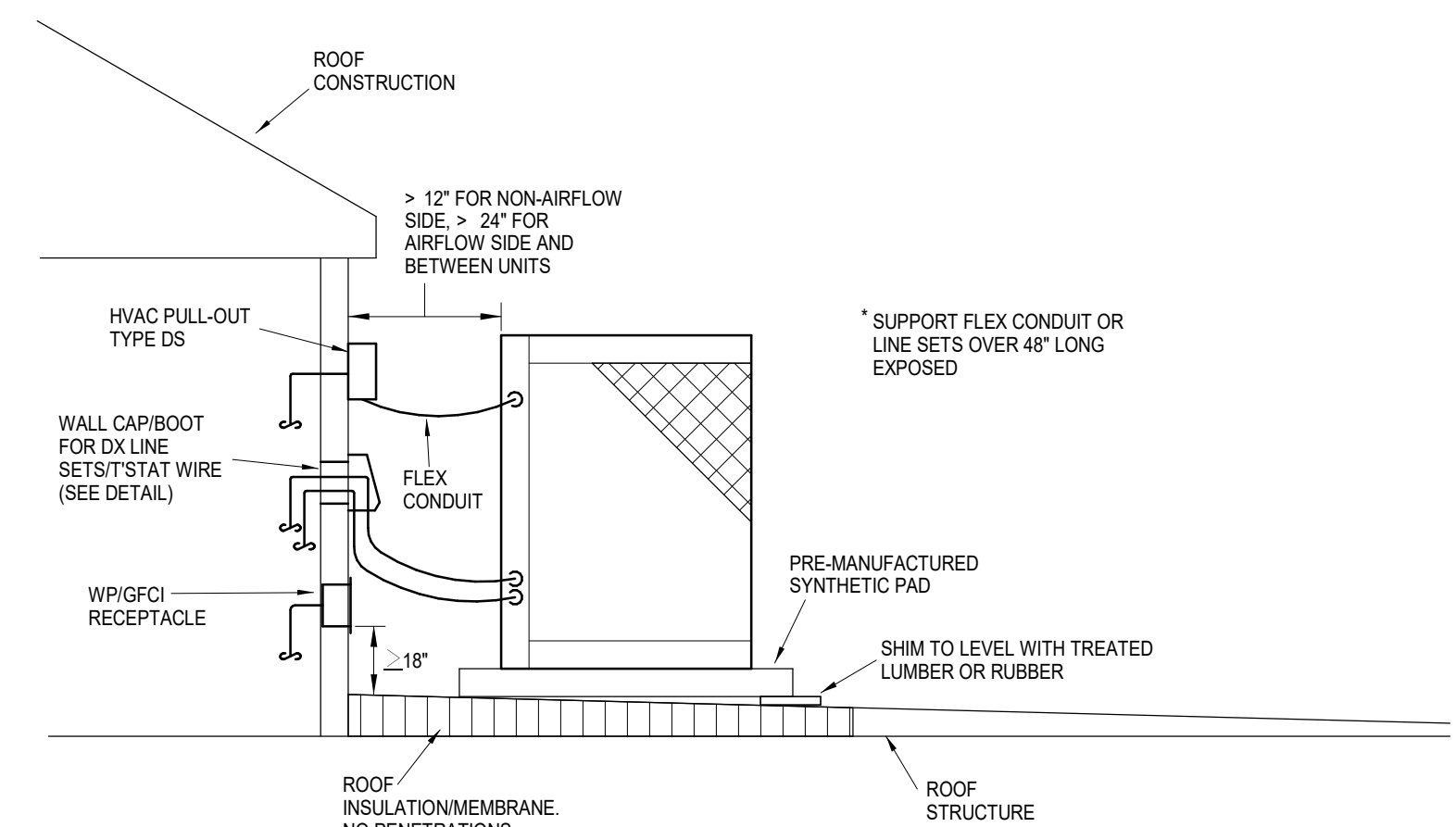
2 STEEL VENT DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT OR NOM 10" (254mm) DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT. DIAMETER OF OPENINGS TO BE MAX. 1" (25mm) LARGER THAN OUTSIDE DIAMETER OF DUCT. DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY IN OPENING. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (POINT CONTACT) TO MAX. 1" (25mm). DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY.

3 FILL VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN. 3/4" (19mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. MIN. 5/8" (16mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING. AN ADDITIONAL MIN. 1/4" (6mm) BEAD OF FILL MATERIAL APPLIED AT THE DUCT/FLOOR INTERFACE AT POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR AND AT THE DUCT/CEILING INTERFACE AT POINT CONTACT LOCATION ON THE LOWER SURFACE OF CEILING.

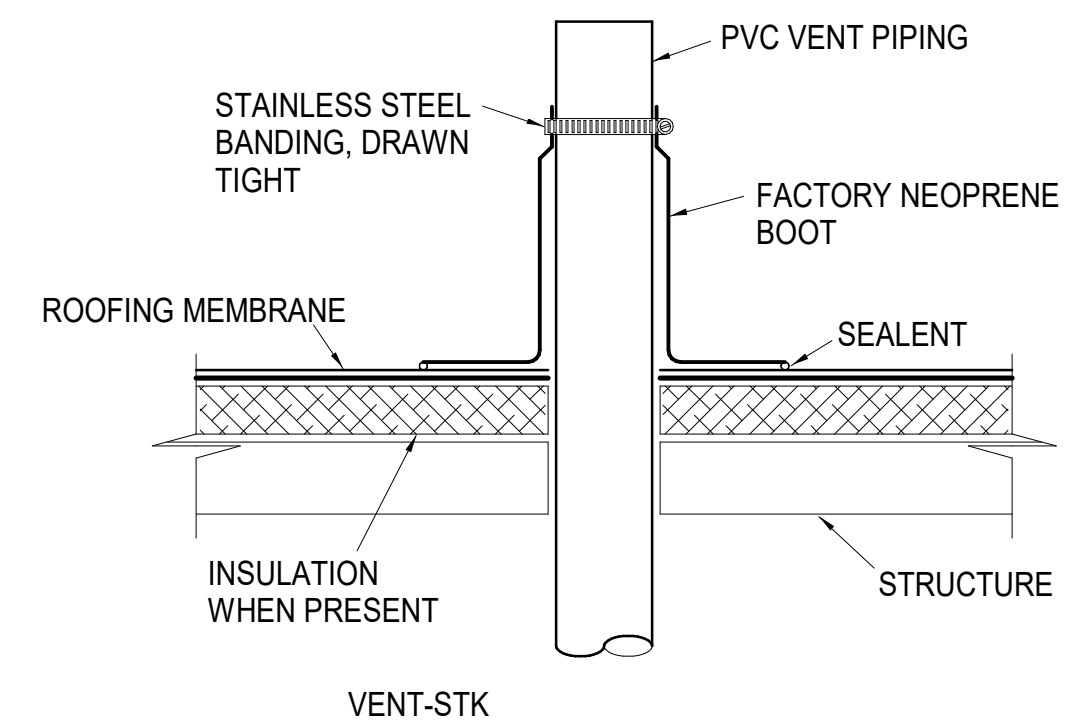
3M COMPANY - CP 25WB+IC 15WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARKING.

1 FIRE STOP SYSTEM DETAILS
NOT TO SCALE

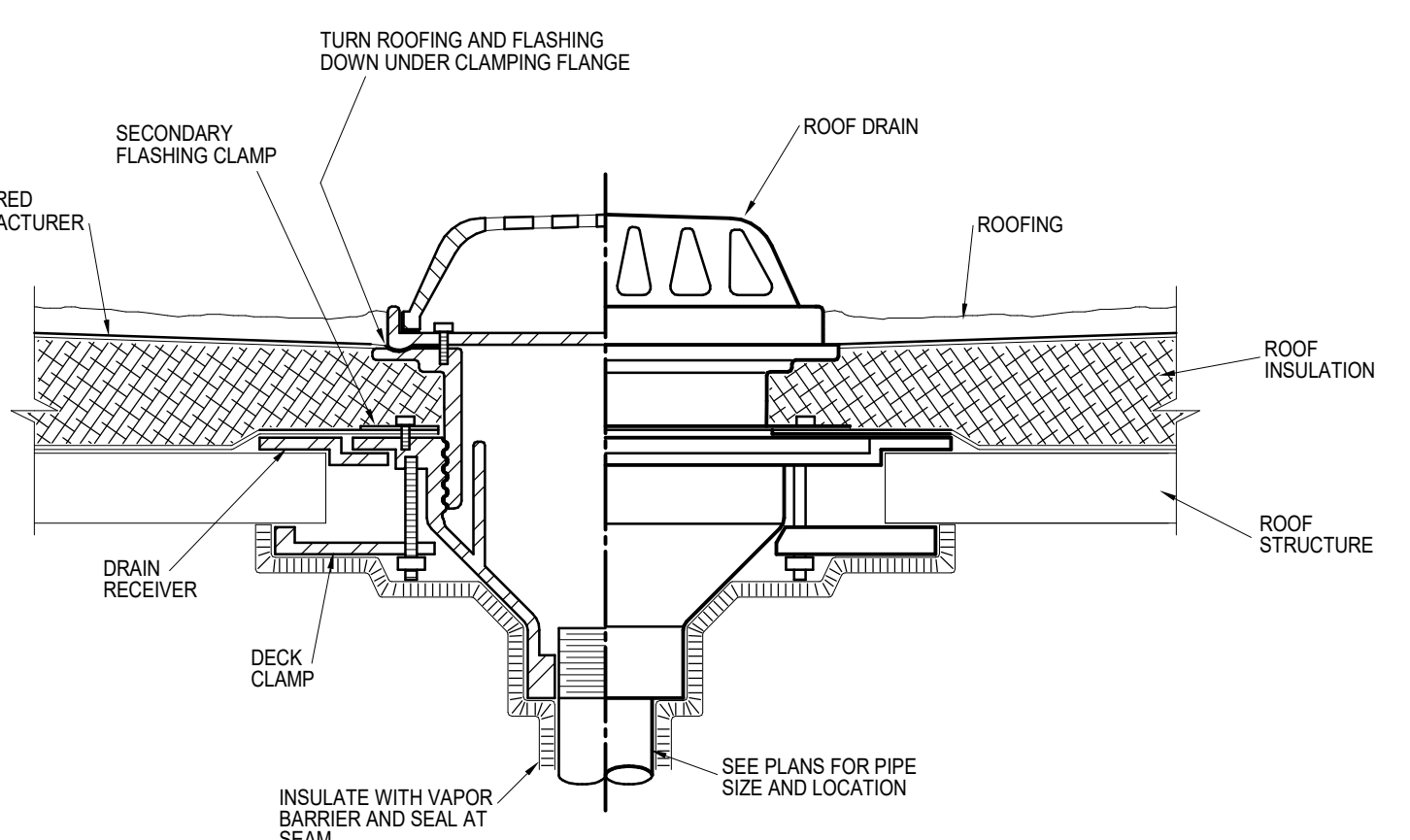
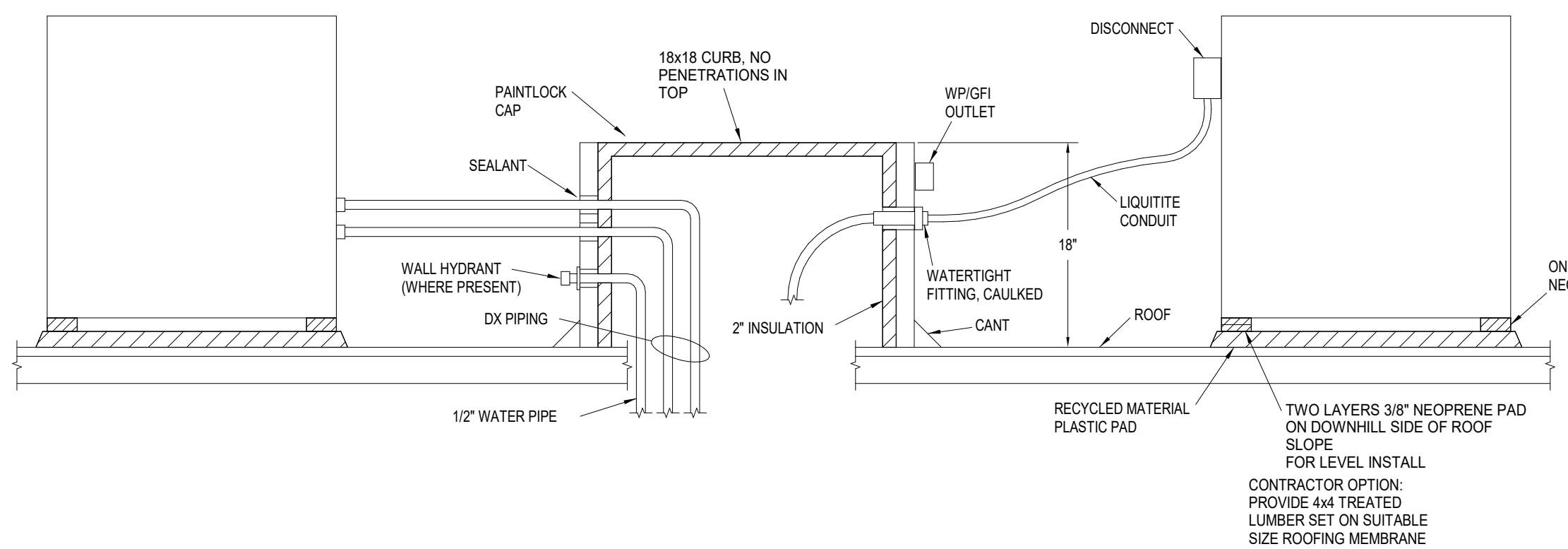


3 ROOF MOUNTED CONDENSING UNIT DETAIL 1
NOT TO SCALE

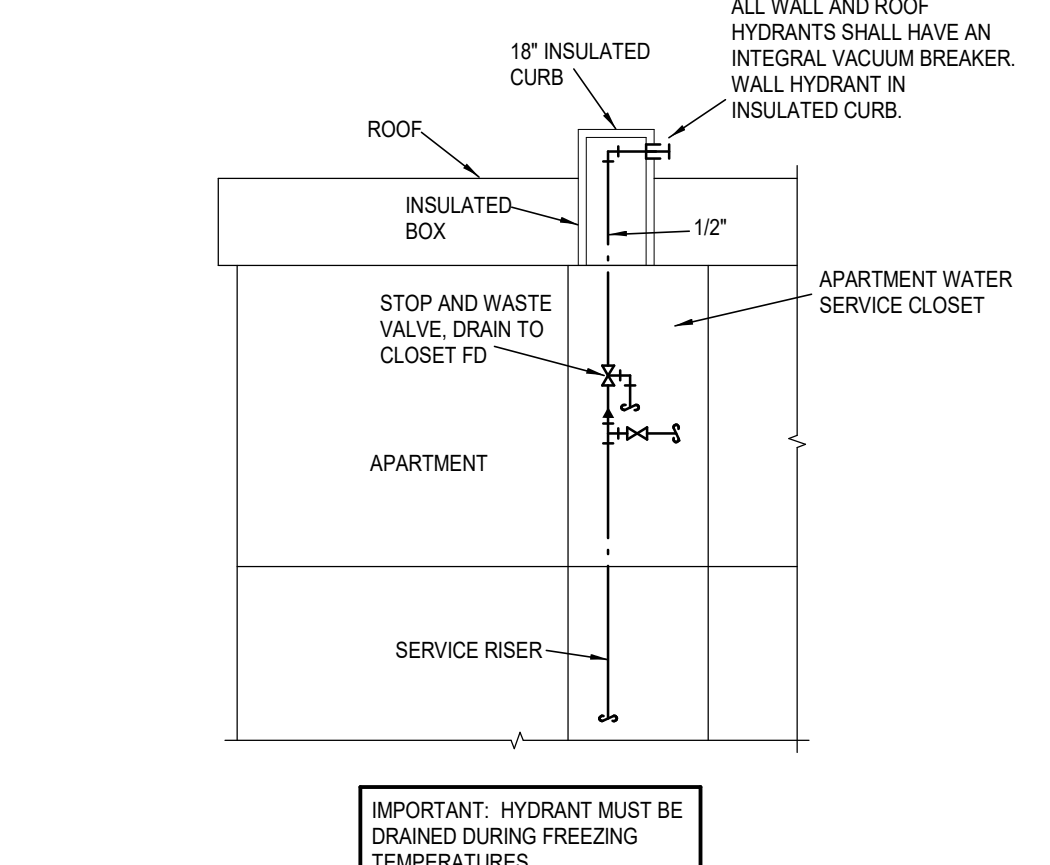


4 VENT STACK DETAIL
NOT TO SCALE

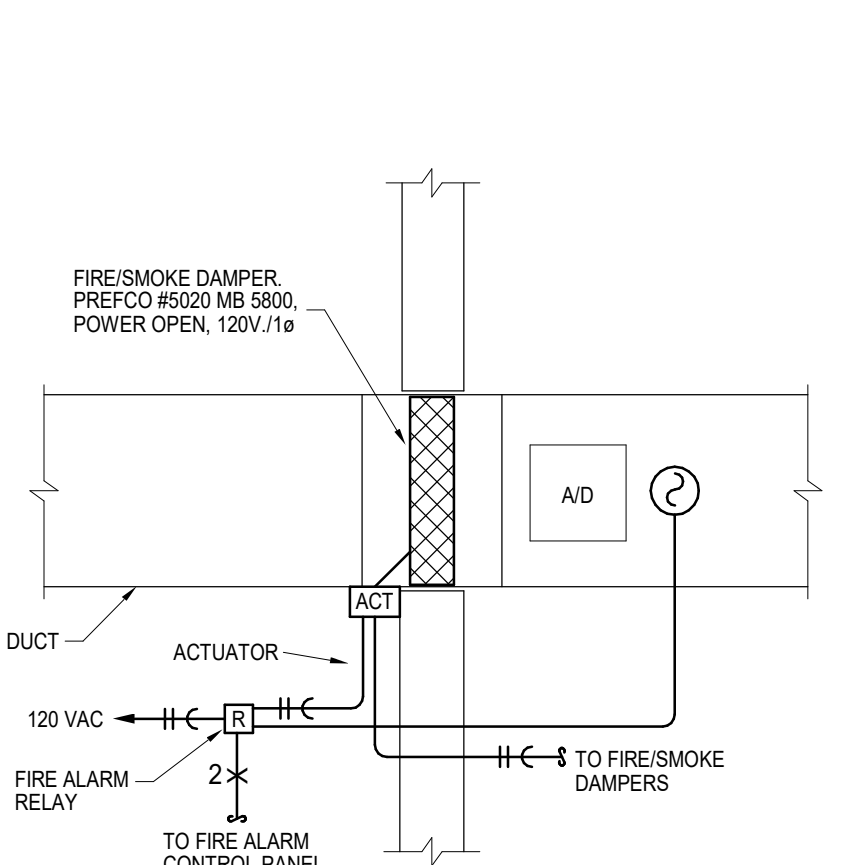
2 ROOF MOUNTED CONDENSING UNIT DETAIL
NOT TO SCALE



5 ROOF DRAIN DETAIL
NOT TO SCALE



6 ROOF WATER HYDRANT DETAIL
NOT TO SCALE



7 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE

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9/16/2024

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
* 09.16.24 PERMIT SET

REVISIONS

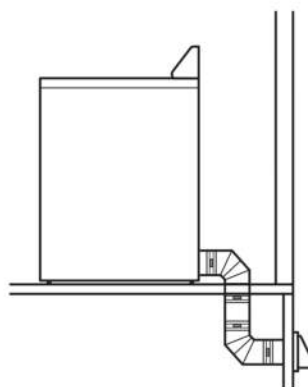
JOB NO. 720522 DATE 09.16.2024
DRAWN BY Author
PERMIT SET
SHEET NAME MECHANICAL DETAILS
SHEET NO. MP1.02

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LSA PROJECT NO. 2404027

TOP LOAD DRYER

Special provisions for mobile home installations:
The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.



Determine vent path:

- Select route that will provide straightest and most direct path outdoors.
- Plan installation to use fewest number of elbows and turns.
- When using elbows or making turns, allow as much room as possible.
- Bend vent gradually to avoid kinking.
- Use as few 90° turns as possible.

Determine vent length and elbows needed for best drying performance:

- Use following "Vent System Chart" to determine type of vent material and hood combinations acceptable to use.
- NOTE: Do not use vent runs longer than those specified in "Vent System Chart." Exhaust systems longer than those specified will:
 - Shorten life of dryer.
 - Reduce performance, resulting in longer drying times and increased energy usage.

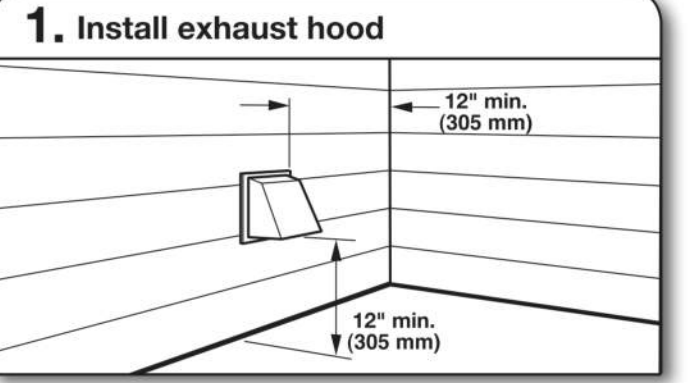
The "Vent System Chart" provides venting requirements that will help achieve best drying performance.

Vent System Chart			
Number of 90° turns or elbows	Type of vent	Box/lowered hoods	Angled hoods
0	Rigid metal	64 ft. (20 m)	58 ft. (17.7 m)
1	Rigid metal	54 ft. (16.5 m)	48 ft. (14.6 m)
2	Rigid metal	44 ft. (13.4 m)	38 ft. (11.6 m)
3	Rigid metal	35 ft. (10.7 m)	29 ft. (8.8 m)
4	Rigid metal	27 ft. (8.2 m)	21 ft. (6.4 m)

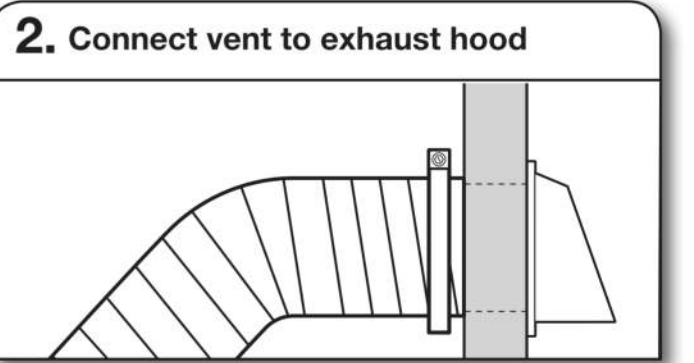
Vent System Chart
(29" Wide Long Vent WED/WGD4970 and WED/WGD4975 Models Only)

Number of 90° turns or elbows	Type of vent	Box/lowered or angled hoods
0	Rigid metal	160 ft. (48.8 m)
1	Rigid metal	150 ft. (45.7 m)
2	Rigid metal	140 ft. (42.7 m)
3	Rigid metal	130 ft. (39.6 m)
4	Rigid metal	120 ft. (36.6 m)
5	Rigid metal	110 ft. (33.5 m)

INSTALL VENT SYSTEM



Install exhaust hood and use caulking compound to seal exterior wall opening around exhaust hood.



Vent must fit over the exhaust hood. Secure vent to exhaust hood with 4" (102 mm) clamp. Run vent to dryer location using straightest path possible. Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws, or other fastening devices that extend into interior of vent to secure vent, because they can catch lint.



Ceiling Radiation Damper
3 Hour Rated
For Use in Static Systems
Models 5680 Submittal

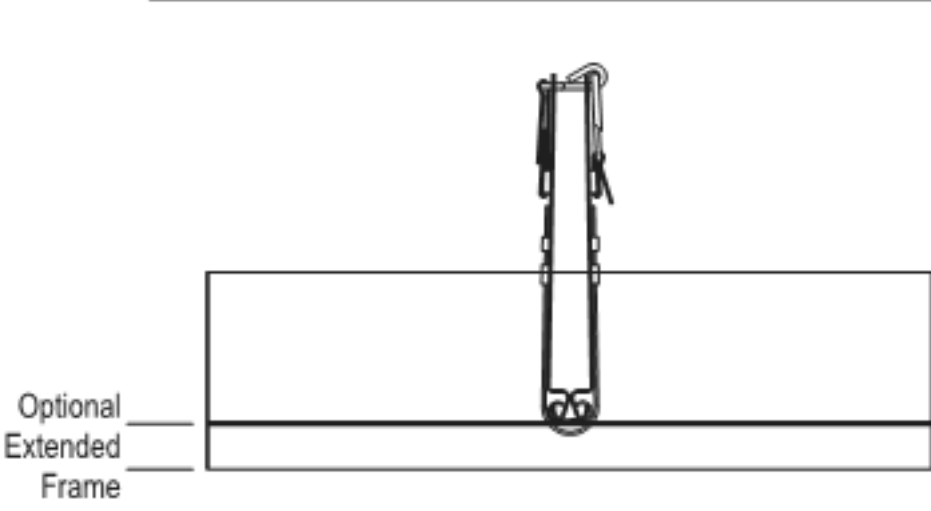
Filename: Prefco Submittal 5680 Rev 27/12/14

Application

The Model 5680 provides fire and heat radiation protection of HVAC penetrations in any floor/ceiling and roof/ceiling assemblies with restrained or unrestrained ratings of 3 hours or less. Standard fire dampers (1 1/2 & 3 hr.) do not provide the required protection.

Standard Construction

- **Frame**
21 GA Galvanized Steel
- **Blades - Full Length Hinge**
21 GA Galvanized Steel
- **Closure Springs**
Stainless Steel
- **Fusible Link - UL-33**
UL Listed 212F (standard) 165 F (optional)
McCabe Link (optional)
- **Insulation (blade)**
Ceramic Fiber



Standard Sizes (duct)	
Minimum	4 1/2" x 4 1/2"
Maximum	24" wide or 30" long - 576 sq. in. total max.

NOTES:

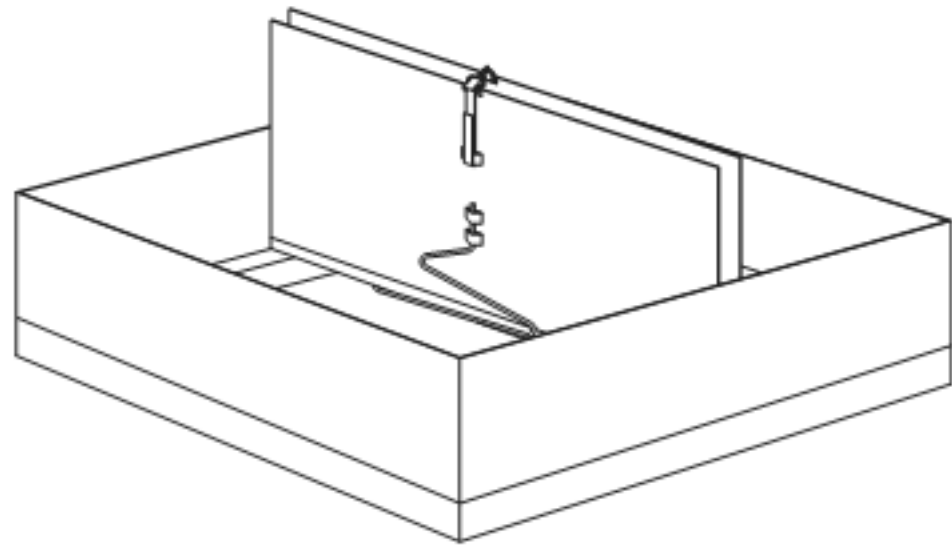
- Dampers are fabricated 3/16" under ordered diameter for clearance
- Approved for use in any UL Fire Resistance Directory Series Designs
- For 2 hour rating, refer to Model 5660

Model 5680 meets or complies with the following as a ceiling radiation damper.

- NFPA Standards
- All major building codes, including BOCA, ICBO/UBC, SBCCI & ICC International Code

- UL 555C Listing 3 Hour - File #R7365
- CA State Fire Marshall - #3225-1518-103

High Free Area Design
Optional Volume Control Device (5965)



A dim. is always width of blades



9/16/2024

DRAWING RELEASE LOG
• 09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522 DATE 09.16.2024

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MECHANICAL DETAILS

SHEET NO.



MP1.03

WATER HEATER SCHEDULE												
MARK	MFGR	MODEL	FUEL	VOLTAGE/PH/AMPS	INPUT	EFFICIENCY/FF	GALLONS STORAGE	GPH RECOVERY @ 80° RISE	FLUE TYPE	EXPANSION	CIRCULATOR GPM/HD	NOTES
HA, HB, HC, HD, MAINT	A.O. SMITH	EJC-10	ELEC	120/1/14	1.6 KW	N/A	9	8	N/A	RELIEF V.		1, 2
TYP APT	A.O. SMITH	ENL-40	ELEC	208/1/19	4.5 KW	0.95	35	23	N/A	RELIEF V.		1, 2

NOTES
1- PROVIDE ASME P&T VALVE, DRAIN VALVE
2- PROVIDE COMBINATION STOP AND OPERATING PRESSURE RELIEF VALVE

DRAIN SCHEDULE								
MARK	APPLICATION	MFGR	MODEL	BODY MAT'L	DEPTH	GRATE MAT'L	GRATE SHAPE	ACCESSORIES
APT FD	FLOOR	SIOUX CHIEF	842	ABS/PVC	3"	NICKEL BRONZE	6" SQUARE	2
FD-1	FLOOR	ZURN	ZN-415S	COATED CAST IRON	3"	NICKEL BRONZE	6" ROUND	1, 2
FD-2	FLOOR	ZURN	Z-611-S	COATED CAST IRON	6"	COATED CAST IRON	9" SQUARE	1, 2, 3
RD-1	ROOF	SIOUX CHIEF	868	ABS/PVC	6"	POLY	DOME	4
RD-2	ROOF	SIOUX CHIEF	868-STP2	ABS/PVC	6"	POLY	DOME	4, 5

ACCESSORIES:
1 - DEEP TRAP, ADJUSTABLE GRATE
2 - USE WIDE FLANGE MODEL WHERE IN WOOD DECK FLOOR
3 - INTERNAL STRAINER
4 - SEDIMENT BUCKET
5 - 2" DAM FOR OVERFLOW SERVICE

EXHAUST FAN SCHEDULE											
MARK	MFGR	MODEL	CFM	ESP	FAN HP	ELECTRICAL				CONFIGURATION - NOTES	
						VOLTS/ PH	FLA	OCF	WIRING		
A1, B1, C1, D1	GREENHECK	SP-A110	75	0.25	Fr.	120/1	1	15	(3) #12	ceiling, 1, 2	
APT EF	BROAN	670	70	0.1	Fr.	120/1	1	15	(3) #12	ceiling 3	

NOTES:
1-CEILING GRILLE, CRD
2-BD DAMPER, DS, SPEED CONTROLLER, WALL/ROOF CAP
3-HUMIDITY SENSING

ELECTRIC UNIT HEATER SCHEDULE										
MARK	MFGR	MODEL	KW	MBH	CFM	ELECTRICAL				CONFIGURATION - NOTES
						VOLTS/ PH	FLA	OCF	WIRING	
EUH - A	QMARK	AWH4404	3.0	10.2	100	208/1	14.4	20	(3) #12	WALL, 1, 2, 4
EUH - B	QMARK	MWUH7504	3.8	17.0	270	208/1	18	25	(3) #10	SUSPENDED, 4
NOTES: 1-SURFACE MOUNTED 2-NO EXPOSED CONTROL KNOBS 3-FULLY RECESSED 4-DISCONNECT										

AIR TERMINAL DEVICE SCHEDULE						
MARK	MANUFACTURER	MODEL	FINISH	DAMPER	FRAME TYPE	NOTES
A	AIR MATE	A190	WHITE	YES	GYP BD	3-way blow
B	AIR MATE	170	WHITE	NO	GYP BD	
B1	AIR MATE	170	WHITE	YES	GYP BD	
C	AIR MATE	240 VO	WHITE	YES	GYP/WALL	
D	PRICE	620DAL/L/A/B12	WHITE	YES	GYP, BD.	W/CRD
E	PRICE	635DAL/L/A/B12	WHITE	YES	GYP, BD.	
E1	PRICE	635DAL/L/A/B12	WHITE	YES	GYP, BD.	W/CRD

HVAC SYSTEM SCHEDULE																			
MARK UNITS	MFGR	NOM TON	MODEL	CFM	E.S.PAHU/CU								OUTDOOR UNIT						NOTES
					OA CFM	HP	SMBH	TMBH	HEAT CAP	ELEC	FLA	OCF	MODEL	ELEC	FLA	OCF	SEER		
A3, A6, A7, A9	GOODMAN	1 1/2	AWST1808	600		0.4	0.2	12.6	18	5.6 KW	208/1	31	40	GLXS3BN018	208/1	9	15	13.5	
B3, B6	GOODMAN	2	AWST2408	740		0.4	0.2	16.6	23	5.6 KW	208/1	31	40	GLXS3BN024	208/1	9	15	13.5	
B9	GOODMAN	2 1/2	AWST3010	820		0.4	0.33	21.2	28.6	7.5 KW	208/1	41	50	GLXS3BN030	208/1	12	25	13.5	
COMMON AREAS																			
HA1 thru HA4, HB2, HB3, HB4, HC1 thru HC4, HDB, HD1 thru HD4, MAINT	GOODMAN	2	AMST24BU13	600-800	100	0.5	0.75	16.6	23.0	5.6 KW	208/1	31	40	GLXS3BN024	208/1	9	15	13.5	
HB1		2 1/2	AMST30BU13	900-1000	140	0.5	0.75	21.2	28.6	7.5 KW	208/1	40	50	GLXS3BN030	208/1	12	25	13.5	
DSS-STAIR	FUJITSU	1 1/2	ASU18RLF	540	0	0			18	23 MBH	208-240/1	W/HP		ASU18RLF	208-240/1	13	25	19	WALL STAT, LOW AMB
DSS-IT	FUJITSU	1 1/2	AJU18RLFCC	400					18	21 MBH	208-240/1	W/HP		AOU18RLFCC	208-240/1	7.7	20	20	WALL STAT, LOW AMB

NOTE: PROVIDE LONG LINE ACCESSORY KIT ON ALL SPLIT SYSTEMS THAT EXCEED MFGR'S LIMITS. CAPACITIES AT 80/67/95

PLUMBING FIXTURE SCHEDULE													
Mark	Item	Model	Description	Individual Connections				Accessories					
				W	V	CW	HW	Supplies	Stops	Carrier	P-Trap	Drain	Other
P-1	Water Closet, Tank Type	Proflo #1401TWH with PF1400T	Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic elongated white seat with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1"		2					
P-1H	Accessible Water Closet, Tank Type	Proflo #1403TWH with PF1400T	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic elongated white seat with integral bumpers, external check hinges with stainless steel posts. Public seats to be ProFlo #PFTSCOF2000BL	3" or 4"	2"	1"		2					
P-1P	Water Closet, Tank Type	Proflo #1401TWH with PF1400T	Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic open front elongated white seat with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1"		2					
P-1HP	Accessible Water Closet, Tank Type	Proflo #1403TWH with PF1400T	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic open front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Public seats to be ProFlo #PFTSCOF2000BL	3" or 4"	2"	1"		2					
P-2, P-2H	Lavatory, Countertop	Hahn #VC008 with Project Source - Dover Centerset #F51B0066CP	20" x 17" rectangular vitreous china undermount lavatory with overflow. Faucet is 4" o.c. double lever ADA handles, copper waterways, chrome finish, 1.5 GPM.	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1	1	
P-3	Bathtub 30" wide	Sterling Ensemble 71101110-0, Delta/Olympia #R10000PX/T-2380, Watco #W951PPRIPVCCP	60" x 36" white fiberglass reinforced plastic/acrylic non-slip basin with tub overflow and turn and lift stop with finish to match faucet. Pressure-balanced single handle valve, 2.0 gpm showerhead, tub spout with pull-up diverter.	2"	2"	1/2"	1/2"				2		
P-3H	Accommodating Bathtub	Sterling 71101110, Delta/Olympia #R10000PX/TD-2380-ADA, Watco #W951PPRIPVCCP,	60" x 36" white fiberglass reinforced plastic/acrylic non-slip basin with tub overflow and turn and lift stop with finish to match faucet. Pressure-balanced single handle valve, 2.5 gpm handshower with 24" slide, VB, 60" hose, tub spout with pull-up diverter.	2"	2"	1/2"	1/2"				2		
P-3S	Shower	Sterling 95080, Delta/Olympia #R10000PX/T-2382, Watco #W951PPRIPVCCP	60" x 36" white fiberglass reinforced plastic/acrylic non-slip basin with drain grate with finish to match faucet. Pressure-balanced single handle valve, 2.0 gpm showerhead, tub spout with pull-up diverter.	2"	2"	1/2"	1/2"				2		
P-3SH	Accommodating Shower	Sterling #72570116-0 Delta #T13H323	60" x 36" reinforced resin stall with slip-resistant bottom, chrome drain outlet. Pressure-balanced single lever handle valve, 2.2 gpm with large head, satin nickel showerhead, chrome turn and lift drain fitting and diverter spout. Provide grab bars, fold-up seat, pressure-balanced single handle valve, 2.0 gpm handshower with 24" grab bar/slide, diverter valve, VB, 60" hose. Installation shall meet ADA.										
P-4	Kitchen Sink	CMI #481-1422, Olympia K-5050 (CONFIRM WITH ID/OWNER)	Stainless steel under-mount 20 ga. single bowl 29x18x9 deep. Single handle chrome faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1		2	2	
P-4H	Accessible Kitchen Sink	Elkay #ECTSRAD25226TBG, Moen #GXP33C	Stainless steel under-mount 20 ga single bowl 25" x 22" x 6" deep with back outlet. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug. Install per ADA clearances.	2"	2"	1/2"	1/2"	1	1		2	2	
P-5	Washer Box	Guy Gray #WB200HATM	Recessed non-metallic with dual PVC/ABS 2" outlets, two angle quarter turn stops with built-in shock absorbers.	2"	2"	1/2"	1/2"	1			3		
P-6	Water Outlet Box	Guy Gray #BIM877QTS	Recessed non-metallic with two angle quarter turn stops.			1/2"		1					
P-7	Not used												
P-8	Janitor's Sink	Fiat #MSB-2424	24" x 24" x 10" white molded stone with stainless steel integral drain, chrome plated brass wall mounted faucet with VB, integral stops, adjustable wall brace, pail hook, 3/4" hose threaded spout and wall shields.	2" or 3"	2"	1/2"	1/2"				2		2
Supplies	1 - Flexible braided stainless steel 2 - Flexible braided compression hose. 3 - Sloan Royal 186 1.0 gpf diaphragm type. 4 - Public lavatories to have ASSE 1070 thrmostatic mixing valve												
Stops	1 - Angle handle compression												
Carrier	1 - Steel tube floor-mounted in-wall carrier with arms												
P-Trap	1 - PVC with deep escutcheon 2 - PVC 3 - deep seal PVC trap and 30" standpipe.												
Drain	1 - Metal pop-up with tailpiece 2 - Basket strainers in finish to match faucet, tailpiece.												
Other	1 - Provide trap and supply guard if exposed. 2 - Hose and bracket, mop hanger and hose rack.												



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9/16/2024

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG

9/16/24 PERMIT SET

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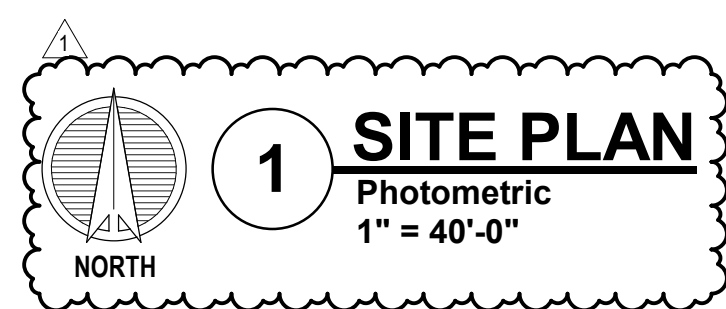
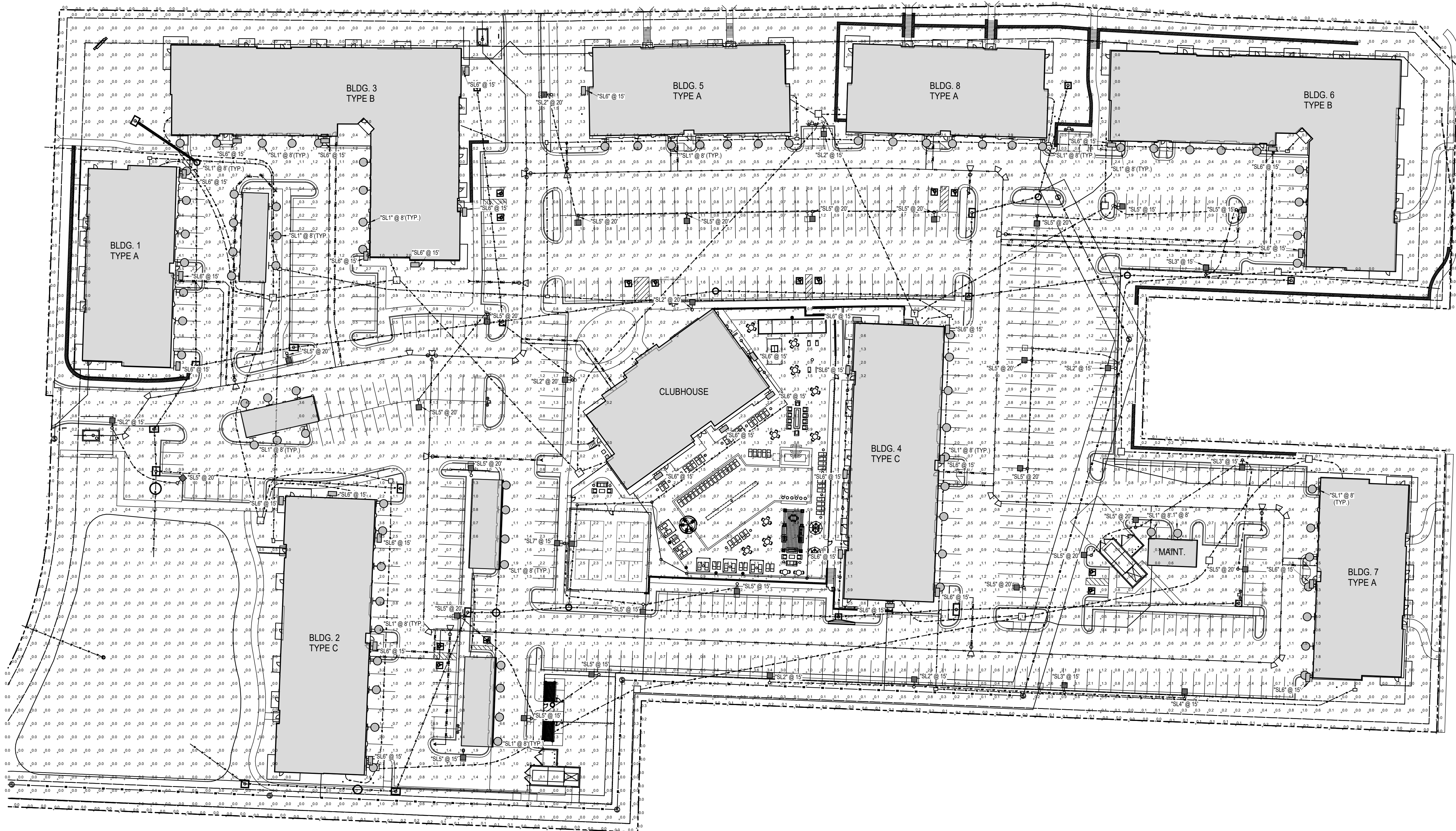


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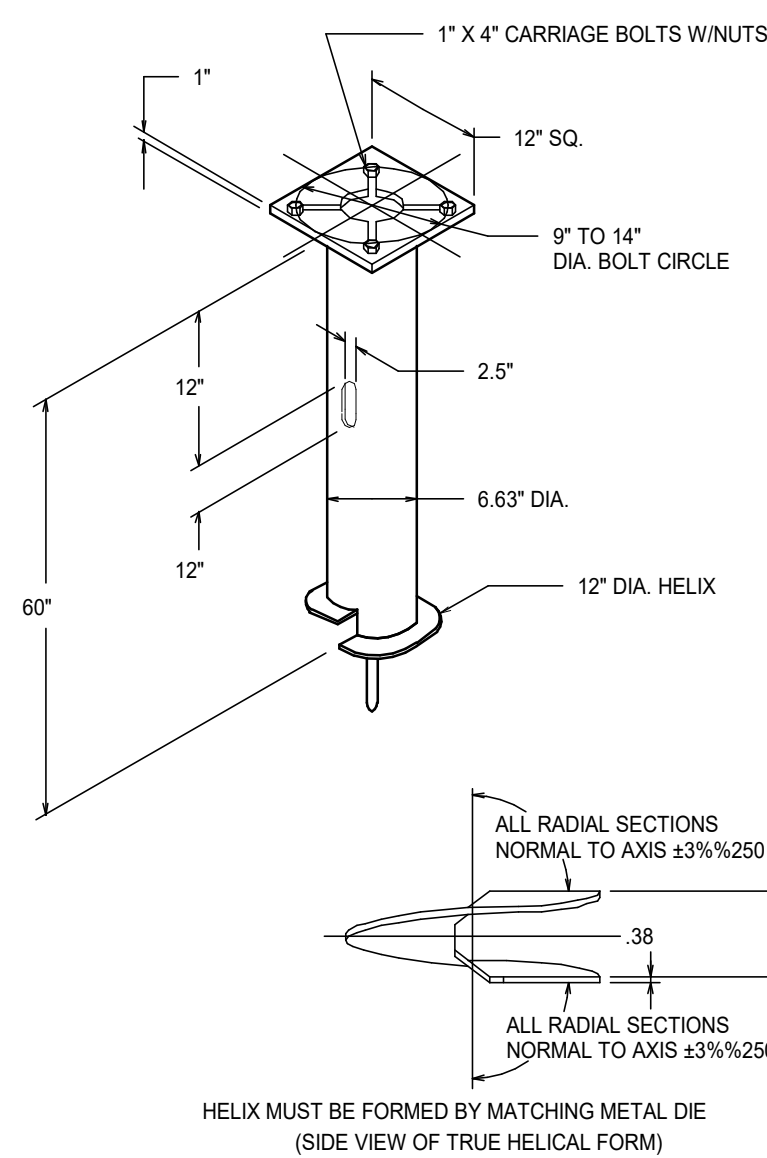
9/16/2024



SITE LIGHT FIXTURE SCHEDULE												
MARK	MANUFACTURE	MODEL NUMBER	MOUNTING			FINISH	LAMPS					REMARKS
			RECESS	SURFACE	WALL		LED	FLOUR.	HID	CODE	QUANTITY	
SL 1	PRESCOLITE	1152-962			X	BLACK	X			8W PAR 30 LED	1	1
SL 2	MCGRAW-EDISON	GLEON-SA1A-740-U-T2		POLE		BLACK	X			4,787LUM/34W	1	2, 3
SL 3	MCGRAW-EDISON	GLEON-SA1A-740-U-SL3		POLE		BLACK	X			4,879LUM/34W	1	2, 3
SL 4	MCGRAW-EDISON	GLEON-SA1A-740-U-SL4		POLE		BLACK	X			4,637LUM/34W	1	2, 3
SL 5	MCGRAW-EDISON	GLEON-SA1B-740-U-5WQ		POLE		BLACK	X			6,303LUM/44W	1	2, 3
SL 6	MCGRAW-EDISON	GWC-SA1A-740-U-SL4			X	BLACK	X			4,729LUM/34W	1	2
SL 7	MCGRAW-EDISON	GLEON-SA1B-740-U-5WQ		POLE		BLACK	X			6,303LUM/44W	1	2, 3, 4

REMARKS:
1 MOUNT AT 8' AFG.
2 VERIFY MOUNTING HEIGHT WITH PLAN.
3 MOUNT ON SSS POLE.
4 DUAL HEAD

STATISTICS						
Description	Avg	Max	Min	Max/Min	Avg/Min	
Parking Lot	1.1 fc	8.8 fc	0.2 fc	44.0:1	5.5:1	
Property Line	0.0 fc	0.5 fc	0.0 fc	N/A	N/A	



- NOTES-
- FINISH: HOT DIP GALVANIZE PER ASTM-A153 (LATEST REVISION).
 - BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (±1%/250) AND HOLE CENTERLINE CONCENTRIC (±.188) TO SHAFT AXIS.
 - STENCIL MIN. 1/2 IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
 - PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (±.125 FM) AND IN LINE (±2%/250).
 - FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE.
 - PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
 - FLAMECUT IRREGULARITIES PERMISSIBLE: (1) VALLEYS NOT TO EXCEED 3/32 IN. BELOW NOMINAL SURFACE LEVEL, (2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED 1/32 IN. ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
 - MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
 - ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:
BASEPLATE: ASTM A36 (LATEST REVISION) HOT ROLLED STEEL PLATE, (CONFORM TO AASHTO TECH. BUL. #270)
SHAFT: STEEL PIPE PILES, SEAMLESS OR STRAIGHT WELDED, GRADE-2 PER ASTM A552. ALT. MATERIAL: STEEL PIPE TYPE E OR S, GRADE-6 PER ASTM A53.
HELIX: ASTM A435 (LATEST REVISION) HOT ROLLED STEEL.
PILOT POINT: ASTM A575 (LATEST REVISION) STEEL BAR.
BOLTS: CARR BOLT PER ANSI B-18.2.1, SAE J429 GRADE-5.
 - BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURERS IDENTIFICATION "ABC" IN 1/2" LETTERS AND DATE CODE IN 1/4" LETTERS.

3 LIGHT POLE FOUNDATION

1/8" = 1'-0"

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Telephone: (765) 233-5322
Email: lsapa@lsapa.com
LSA PROJECT NO.: 2404027

JOB NO.
720522

DATE
09.16.2024

DRAWN BY
Author

PERMIT SET

SHEET NAME
SITE PLAN - PHOTOMETRIC

SHEET NO.
E0.01



5" Direct Wall Mount Cylinder 1152
One 75W BR30 or PAR30 Lamp 120V

APPLICATIONS:
The 1152 is a small-scale wall mount cylinder used to achieve direct illumination patterns on vertical walls or columns. The 1152 is suitable for a wide variety of commercial, retail and institutional applications.

HOUSINGS:
102" thick anodized extruded aluminum cylinder with diecast aluminum canopy arm and bracket. Interlocking parts ensure proper cylinder alignment. Durable powder coat paint finish. Specify: brushed aluminum, matte black, bronze, matte white or Prescolite's exclusive Zet, metallic silver.

REFLECTOR:
Specify pointed black interior, one-piece millgrove black baffle, black cone, or clear Alkalp reflector.

LAMP:
One 1175W PAR30 or BR30 lamp furnished by others.

SOCKET:
Porcelain socket with nickel plated screw shell.

INSTALLATION:
Easy installation onto standard 1/8" box. UL, CSA listed for wet locations.

LABELS:

DATE: TYPE: "SL1"
FIRM NAME:
PROJECT:
Notes:
For conversion to millimeters, multiply inches by 25.4
Not to Scale

2 1/2" 5" d.a.
4 1/2" 10 1/2"
7 1/2" 45°
Cutoff

CATALOG NUMBER:	EXAMPLE: 1152-96ZBZ
HOUSINGS	FINISH OPTIONS
<input checked="" type="checkbox"/> 1152 5" Direct wall mount cylinder with pointed black interior. One 75W PAR30 or BR30	<input checked="" type="checkbox"/> BA Brushed aluminum
<input checked="" type="checkbox"/> 1152-910 5" Direct wall mount cylinder with black millgrove baffle. One 75W PAR30 or BR30	<input checked="" type="checkbox"/> BL Matte black
<input checked="" type="checkbox"/> 1152-960 5" Direct wall mount cylinder with black cone. One 75W PAR30 or BR30	<input checked="" type="checkbox"/> BZ Bronze
<input checked="" type="checkbox"/> 1152-96Z 5" Direct wall mount cylinder with clear Alkalp reflector. One 75W PAR30 or BR30	<input checked="" type="checkbox"/> WH Matte White
	<input checked="" type="checkbox"/> Z metallic silver

prescolite A Division of Hubbe Lighting, Inc.

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

Visit: www.prescolite.com • Tech Support: (888) 777-4832

LFO-INC-005

Project	Catalog #	Type	"SL1"
Prepared by	Notes	Date	



McGraw-Edison GLEON Galleon

Area / Site Luminaire

Typical Applications
Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Product Certifications



Product Features



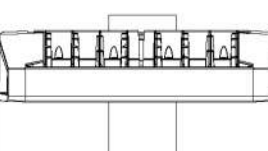
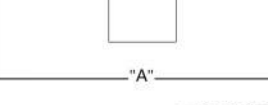

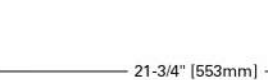
Connected Systems

- WaveLink
- Enlighted

Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

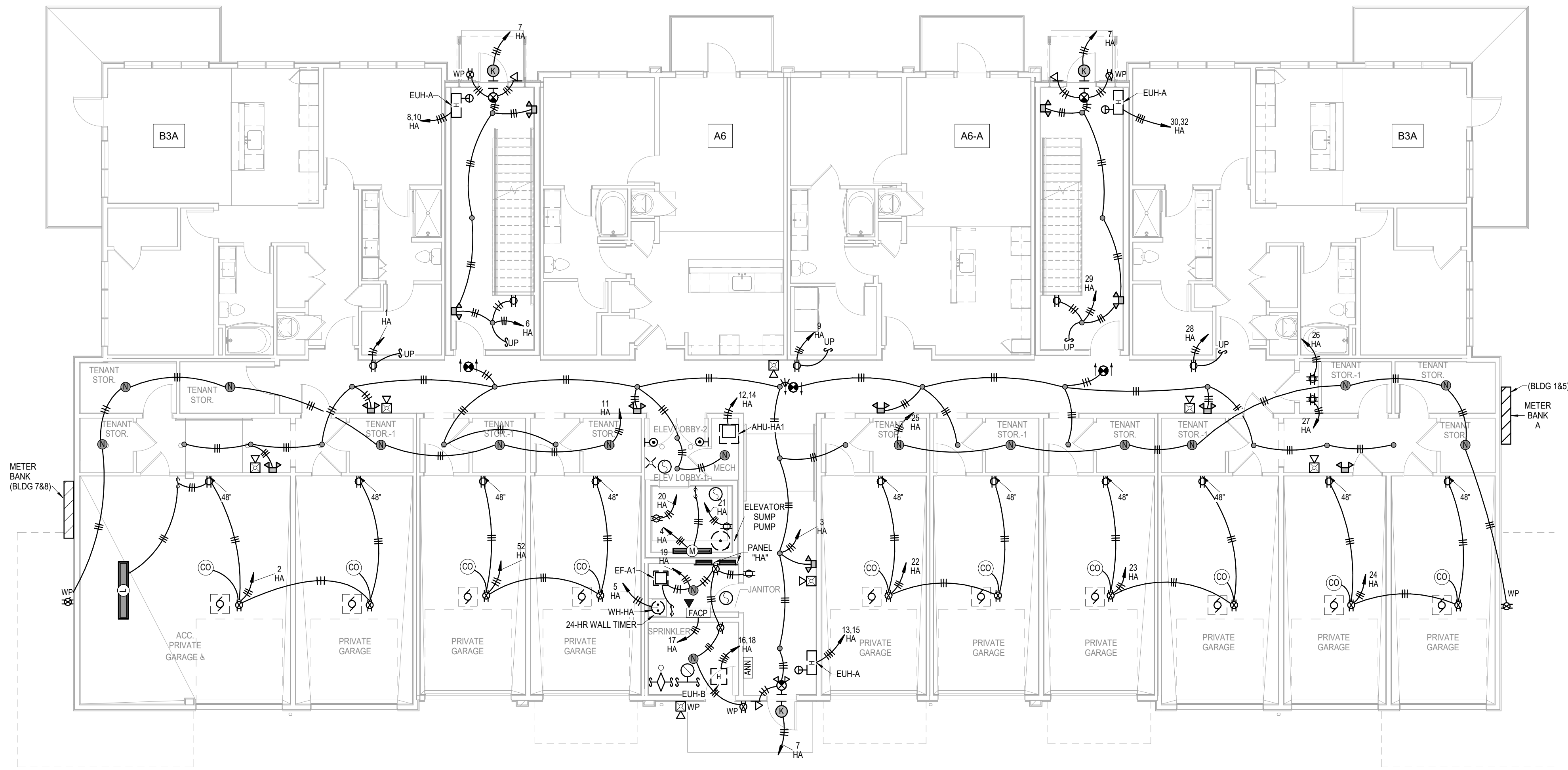
Dimensional Details

	3 15/16" (109mm)	15 1/2"	1 3/4"
NOTES: For air selection requirements and additional line art, see Mounting Details section.			
	3 15/16" (109mm)	21 5/8"	1 3/4"
NOTES: For air selection requirements and additional line art, see Mounting Details section.			
	3 15/16" (109mm)	27 5/8"	1 3/4"
NOTES: For air selection requirements and additional line art, see Mounting Details section.			
	3 15/16" (109mm)	33 3/4"	1 3/4"
NOTES: For air selection requirements and additional line art, see Mounting Details section.			



9/16/2024

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 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. SEE HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM SYSTEM.
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ALL CLOSET FIXTURES ARE TYPE N UNO
ALL FIXTURES ARE TYPE X1 UNO
ALL FIXTURES ARE TYPE X2 UNO
ALL FIXTURES ARE TYPE X3 UNO
ALL FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "L#F" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
 - SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
 - GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
 - ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL.



1 BUILDING A - 1ST FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522 DATE 09.16.2024
DRAWN BY Author
PERMIT SET

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& Associates P.A.
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LSA PROJECT NO. 2404027

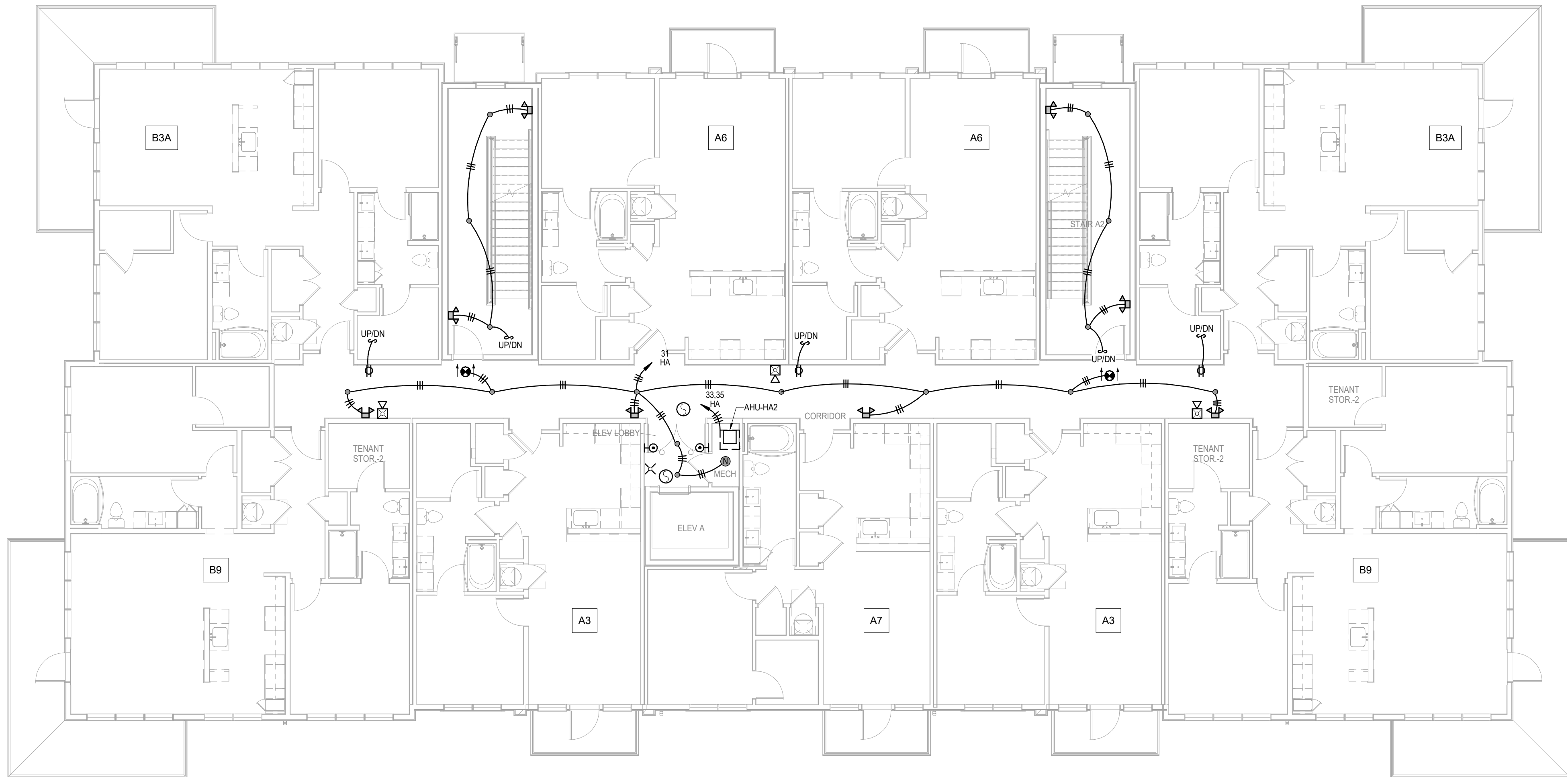
SHEET NAME
BUILDING A - FIRST FLOOR
PLAN - ELECTRICAL
SHEET NO.

E1.11



9/16/2024

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1 BUILDING A - 2ND FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
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LEES SUMMIT, MISSOURI

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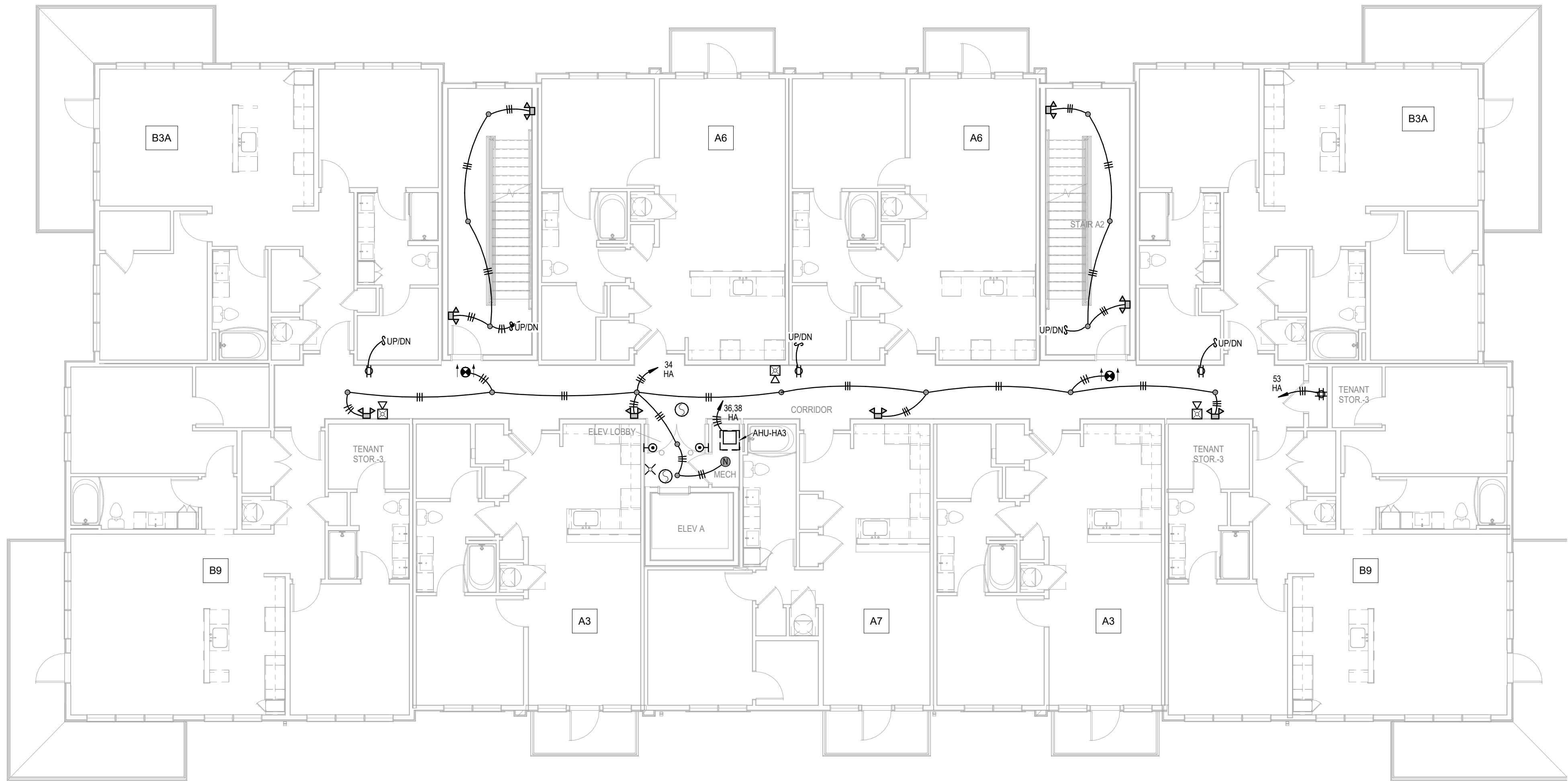
SHEET NAME
BUILDING A - SECOND
FLOOR PLAN - ELECTRICAL
SHEET NO.

E1.12



9/16/2024

- ELECTRICAL BUILDING NOTES:
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1 BUILDING A - 3RD FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

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09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522 DATE 09.16.2024
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PERMIT SET

SHEET NAME
BUILDING A - THIRD FLOOR
PLAN - ELECTRICAL
SHEET NO.

E1.13

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

- ELECTRICAL BUILDING NOTES:
1.

COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OR WORK PRIOR TO INSTALLATION BEGINNING.
2.

SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. SEE HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM SYSTEM.
3.

EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4.

PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5.






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6.

LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7.

PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/ EQUIPMENT SERVED.
8.

SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9.

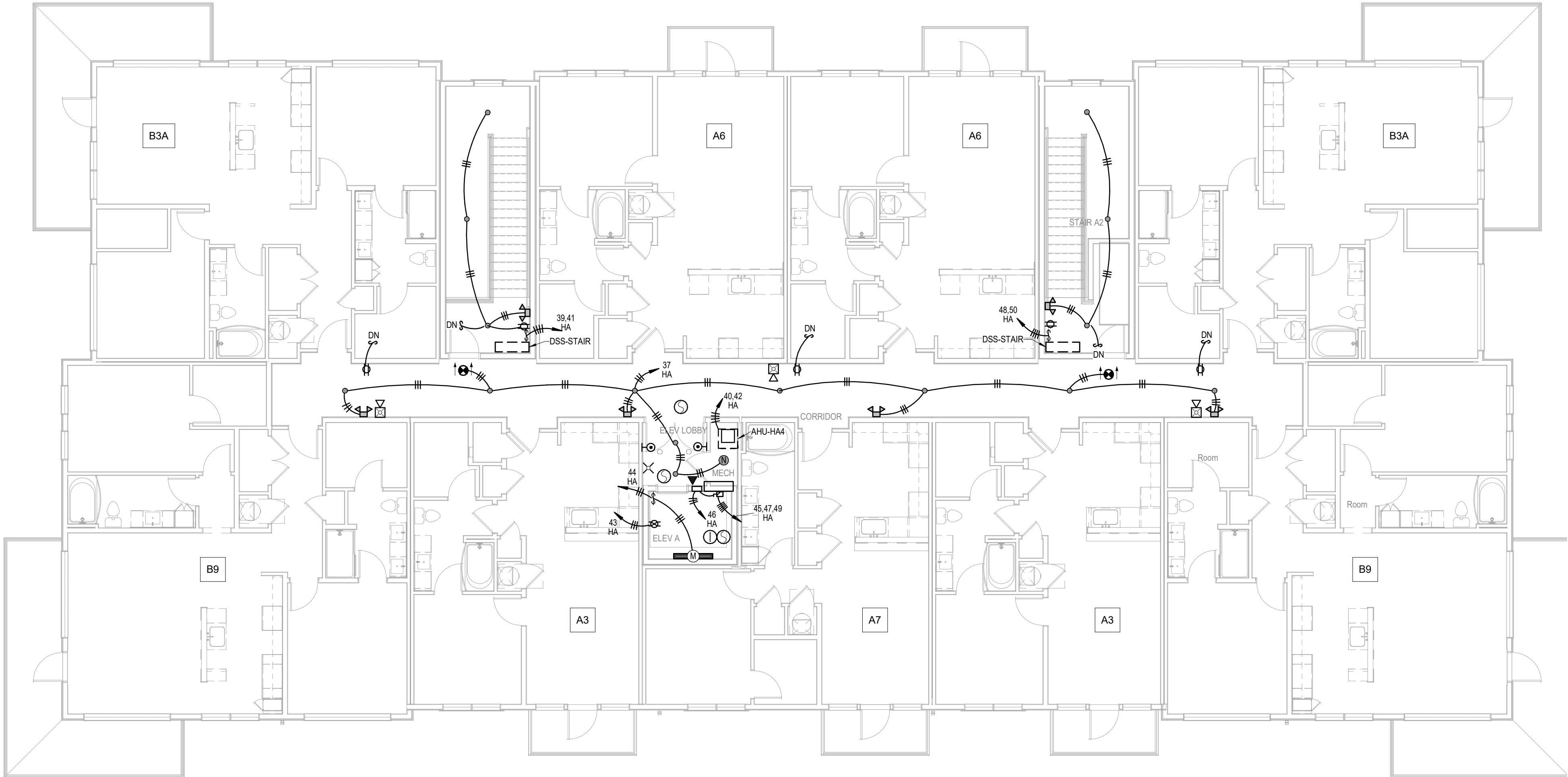
SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10.

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ALL CLOSET FIXTURES ARE TYPE N UNO
ALL   FIXTURES ARE TYPE X1 UNO
ALL  FIXTURES ARE TYPE X2 UNO
ALL  FIXTURES ARE TYPE X3 UNO
ALL  FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "L#/" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
11.

SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
12.

GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
13.

ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL



1

BUILDING A - 4TH FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG

09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522

DATE
09.16.2024

DRAWN BY
Author

PERMIT SET

SHEET NAME
BUILDING A - FOURTH
FLOOR PLAN - ELECTRICAL

SHEET NO.

E1.14

LS&A

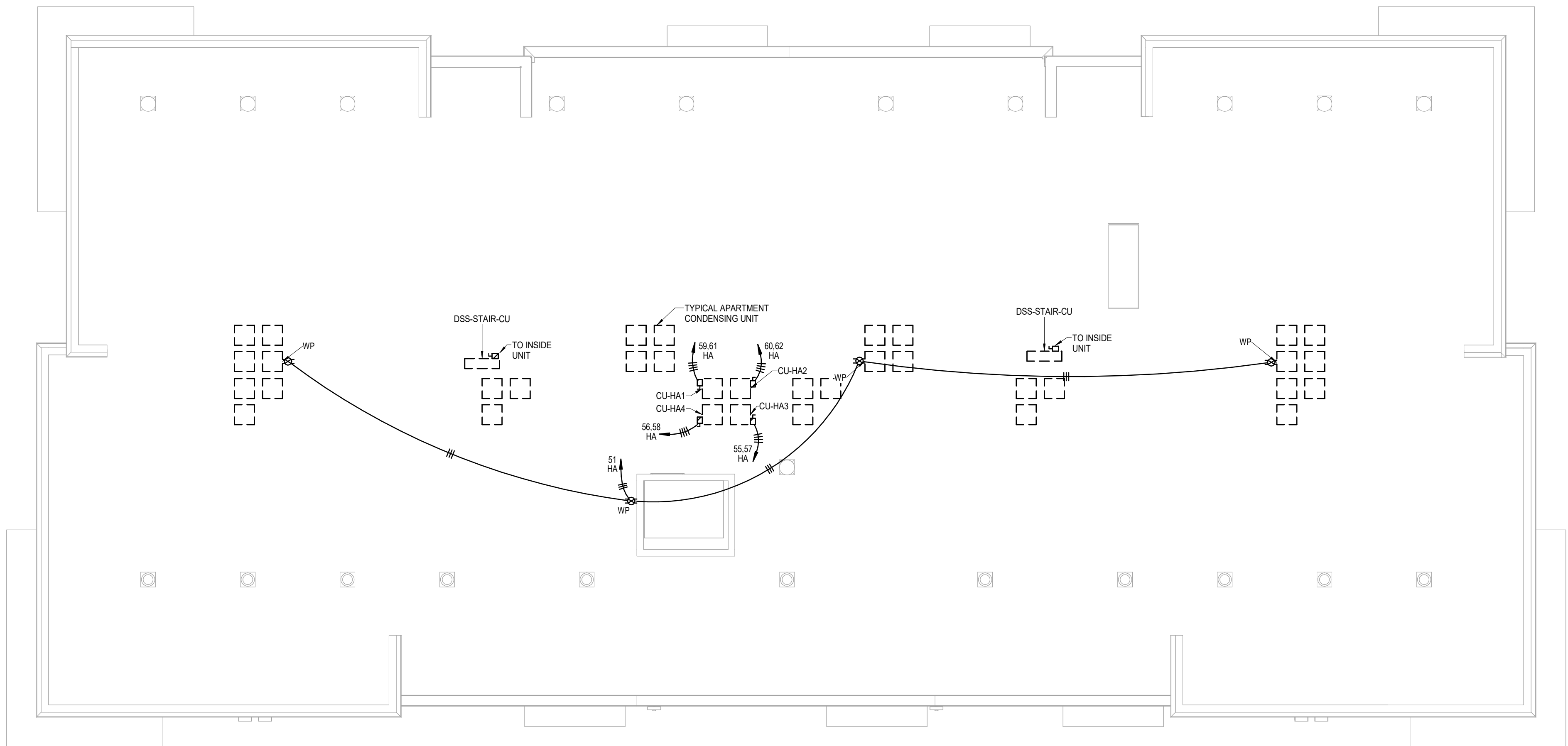
Latimer Sommers
& Associates P.A.
CONSULTING ENGINEERS

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Telephone: (765) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027



9/16/2024

- ELECTRICAL BUILDING NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OR WORK PRIOR TO INSTALLATION BEGINNING.
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1 BUILDING A - ROOF PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

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09.16.24 PERMIT SET

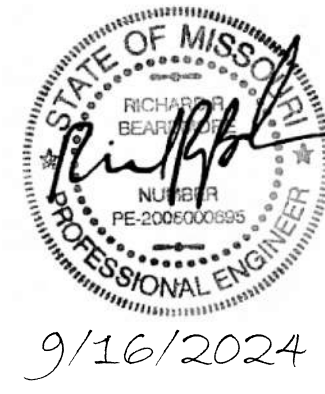
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JOB NO. 720522
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PERMIT SET

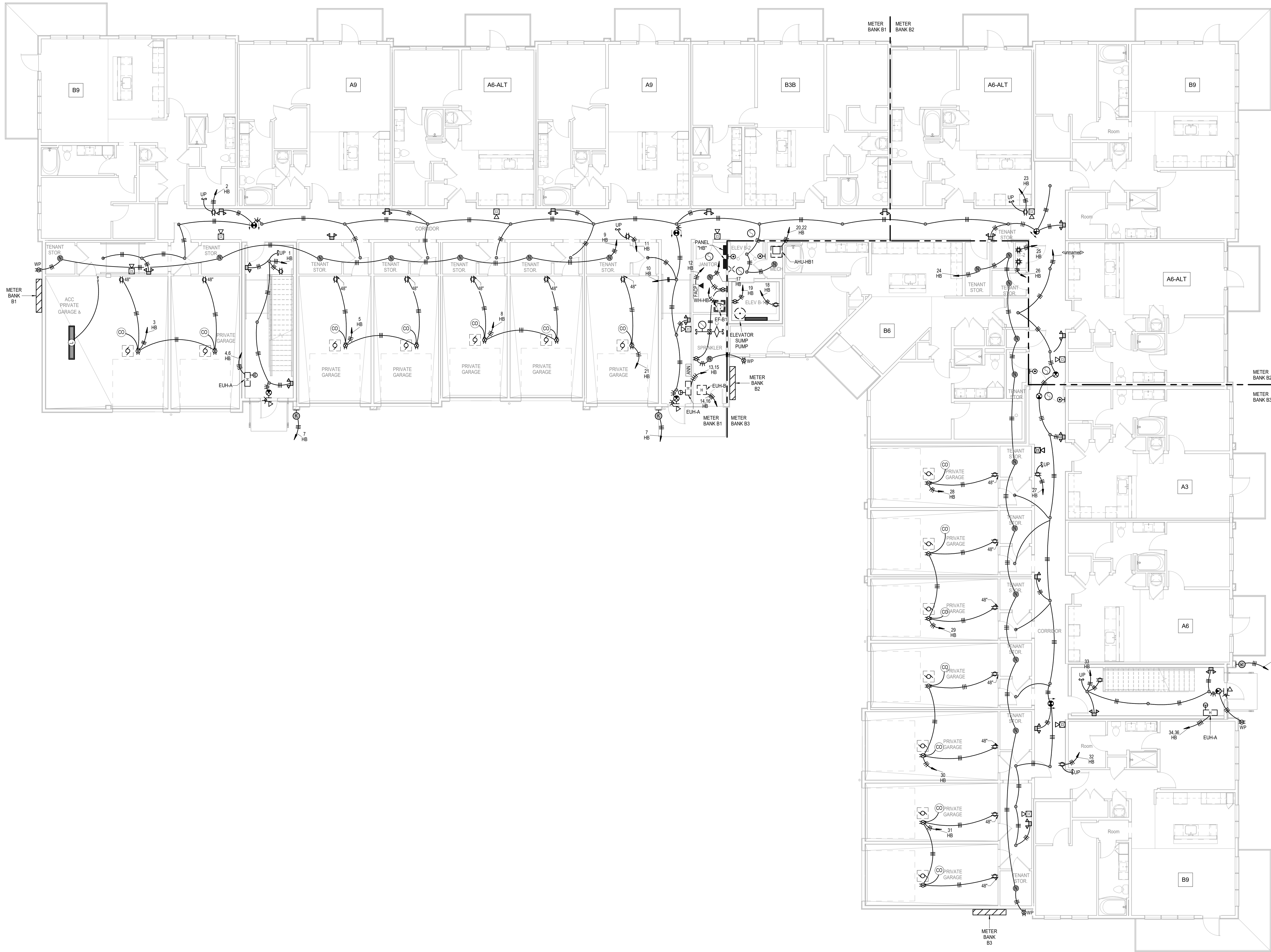
SHEET NAME
BUILDING A - ROOF PLAN - ELECTRICAL
SHEET NO.

E1.15

LS&A
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& Associates P.A.
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 - ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL



1 BUILDING B - 1ST FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 3, 6)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

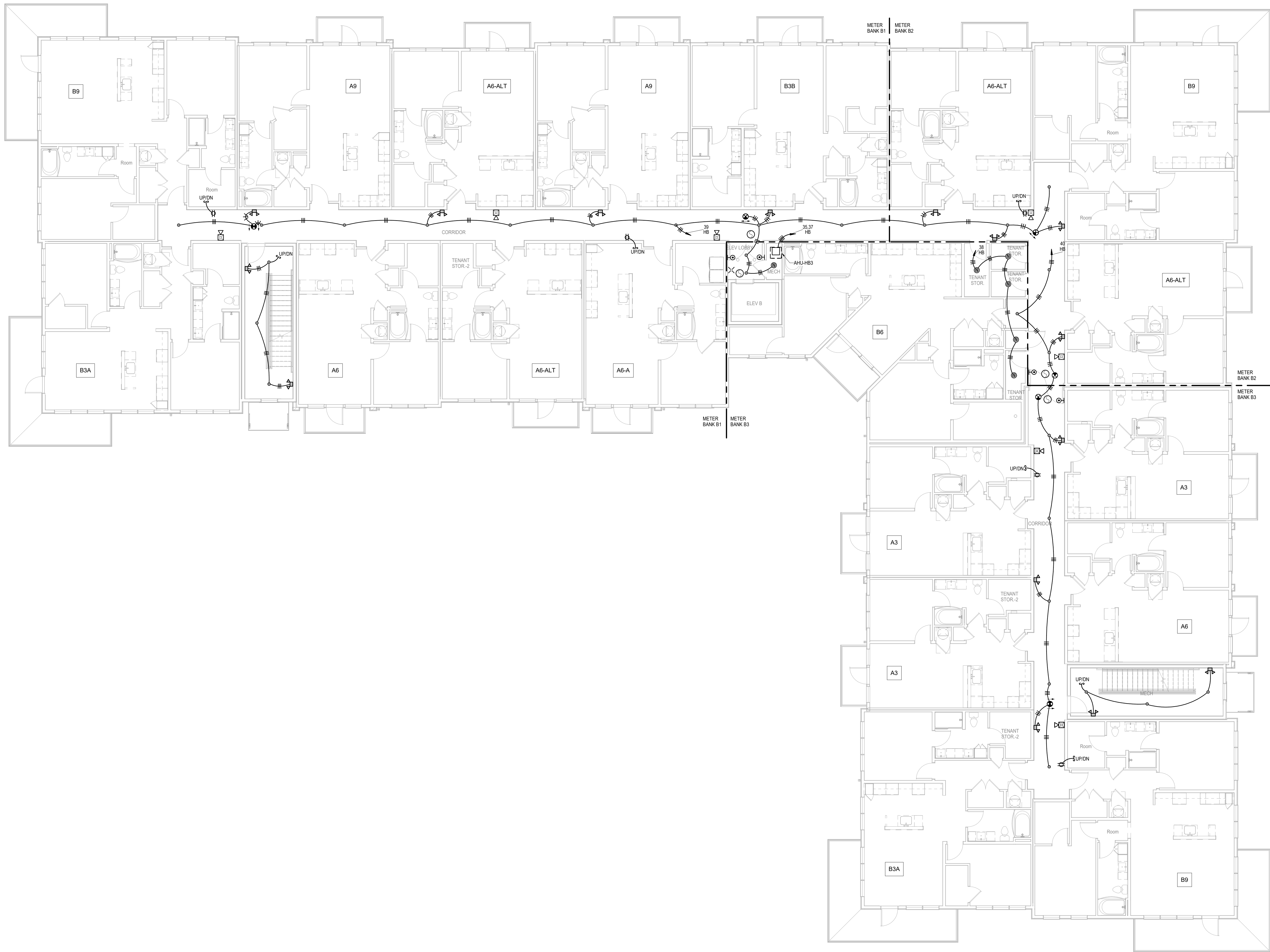
REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING B - FIRST FLOOR
PLAN - ELECTRICAL
SHEET NO.

E1.21

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nspj
ARCHITECTS
ARCHITECTURE
LANDSCAPE
ARCHITECTURE
P.913.831.1415
NSPJARCH.COM
9415 NALL AVE., #300
PRAIRIE VILLAGE,
KANSAS. 66207

STATE OF MISSOURI
Professional Engineer
9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

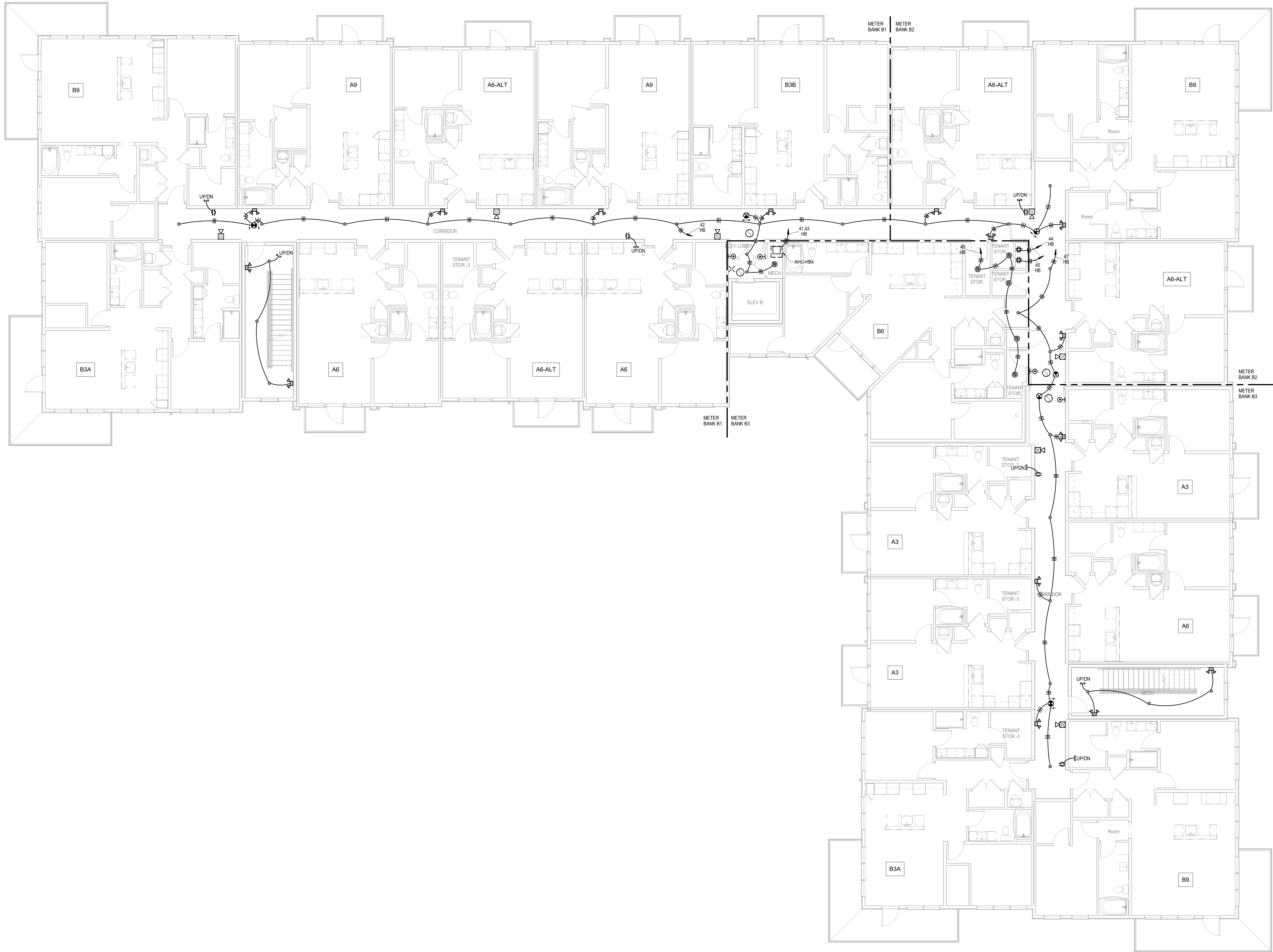
1 BUILDING B - 2ND FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 3, 6)

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DATE
09.16.2024

SHEET NAME
**BUILDING B - SECOND
FLOOR PLAN - ELECTRICAL**
SHEET NO.
E1.22



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 - LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
 - PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/ EQUIPMENT SERVED.
 - SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
 - SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
 - ALL DISC FIXTURES ARE TYPE A UNO
ALL CLOSET FIXTURES ARE TYPE N UNO
ALL FIXTURES ARE TYPE X1 UNO
ALL FIXTURES ARE TYPE X2 UNO
ALL FIXTURES ARE TYPE X3 UNO
ALL FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "L#/" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
 - SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
 - GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
 - ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL

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PRAIRIE VILLAGE,
KANSAS. 66207

STATE OF MISSOURI
Professional Engineer
9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

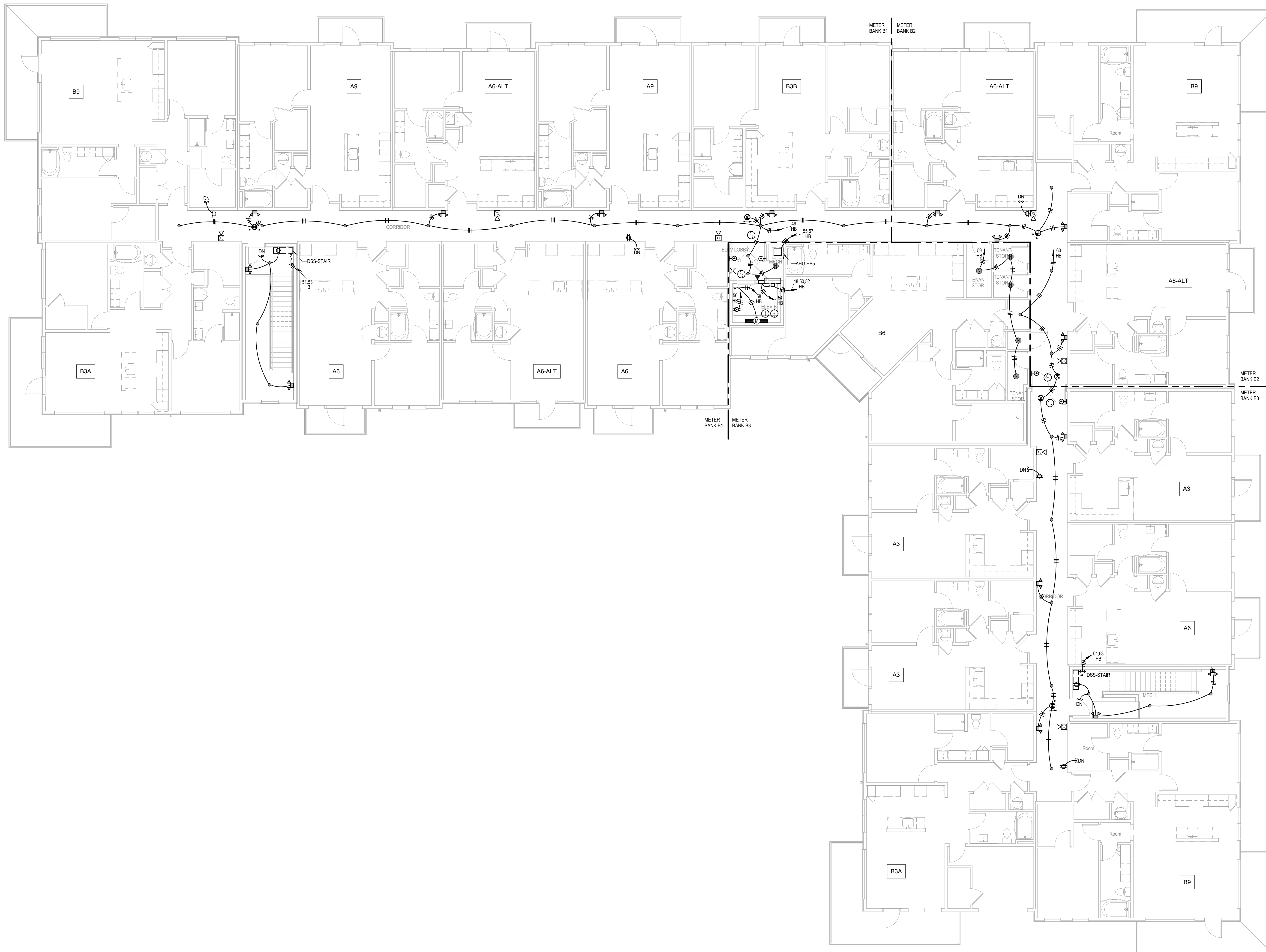
1 BUILDING B - 3RD FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 3, 6)

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

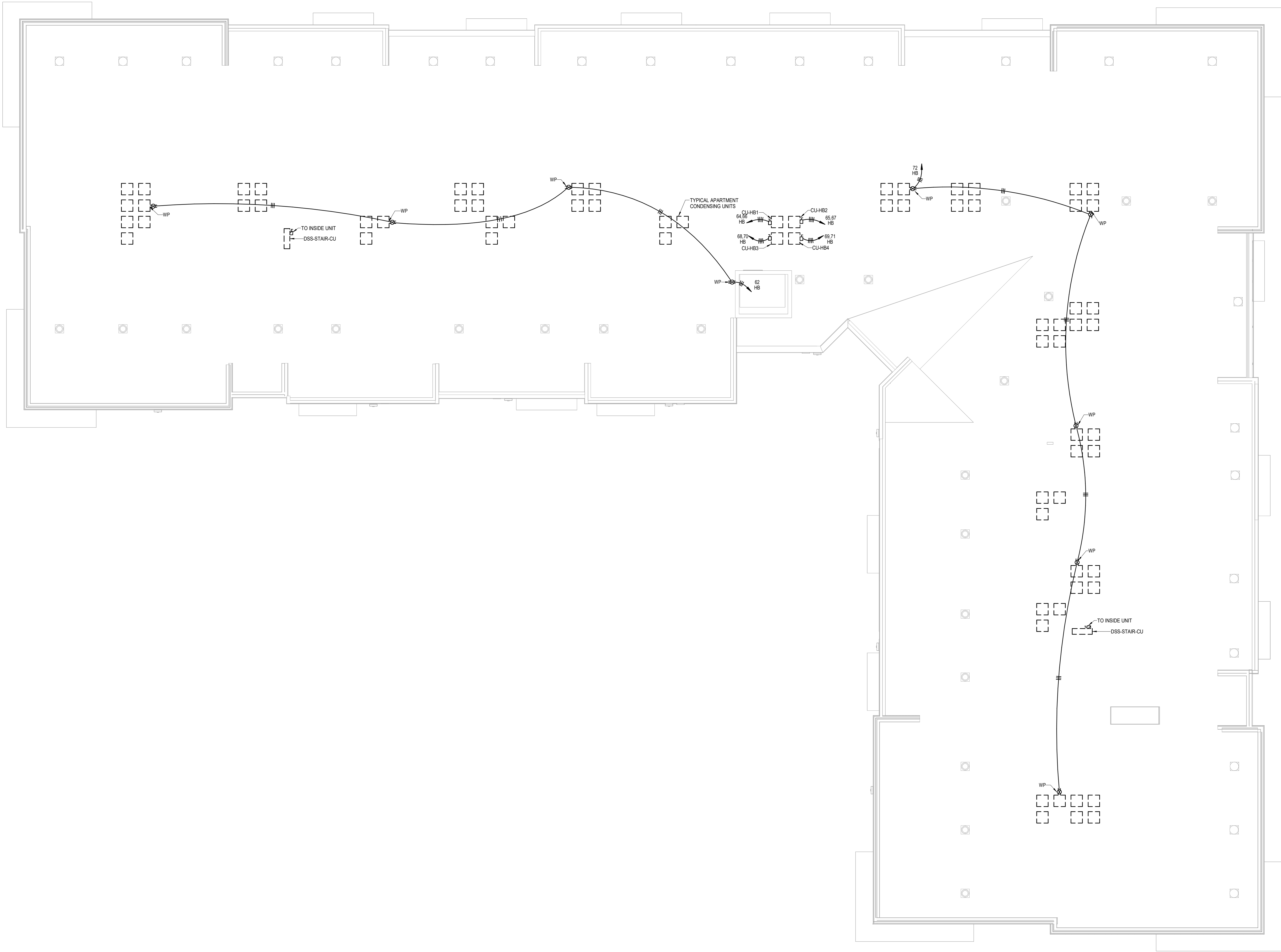
JOB NO.
720522
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Author
PERMIT SET

DATE
09.16.2024

SHEET NAME
**BUILDING B - THIRD FLOOR
PLAN - ELECTRICAL**
SHEET NO.
E1.23



- ELECTRICAL BUILDING NOTES:**
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OR WORK PRIOR TO INSTALLATION BEGINNING.
 2. SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. SEE HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM SYSTEM.
 3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
 4. PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
 5. FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS FOR LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
 6. LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
 7. PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/ EQUIPMENT SERVED.
 8. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
 9. SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS
 10. ALL DISC FIXTURES ARE TYPE A UNO
ALL CLOSET FIXTURES ARE TYPE A UNO
ALL ☹ ☹ ☹ FIXTURES ARE TYPE X1 UNO
ALL ☹ ☹ ☹ FIXTURES ARE TYPE X2 UNO
ALL ☹ ☹ ☹ FIXTURES ARE TYPE X3 UNO
ALL ☹ ☹ ☹ FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "LUB" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
 11. SEE ARCHIV PLANS FOR ALL POWER NEEDS AND LOCATIONS.
 12. GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
 13. ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCCELL



- ELECTRICAL BUILDING NOTES:**
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9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

1 BUILDING B - ROOF PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 3, 6)

JOB NO. 720522
DATE 09.16.2024

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SHEET NAME
BUILDING B - ROOF PLAN -
ELECTRICAL
SHEET NO.

E1.25

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027



9/16/2024

- ELECTRICAL BUILDING NOTES:**
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 - ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL.



1 BUILDING C - 1ST FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET







REVISIONS

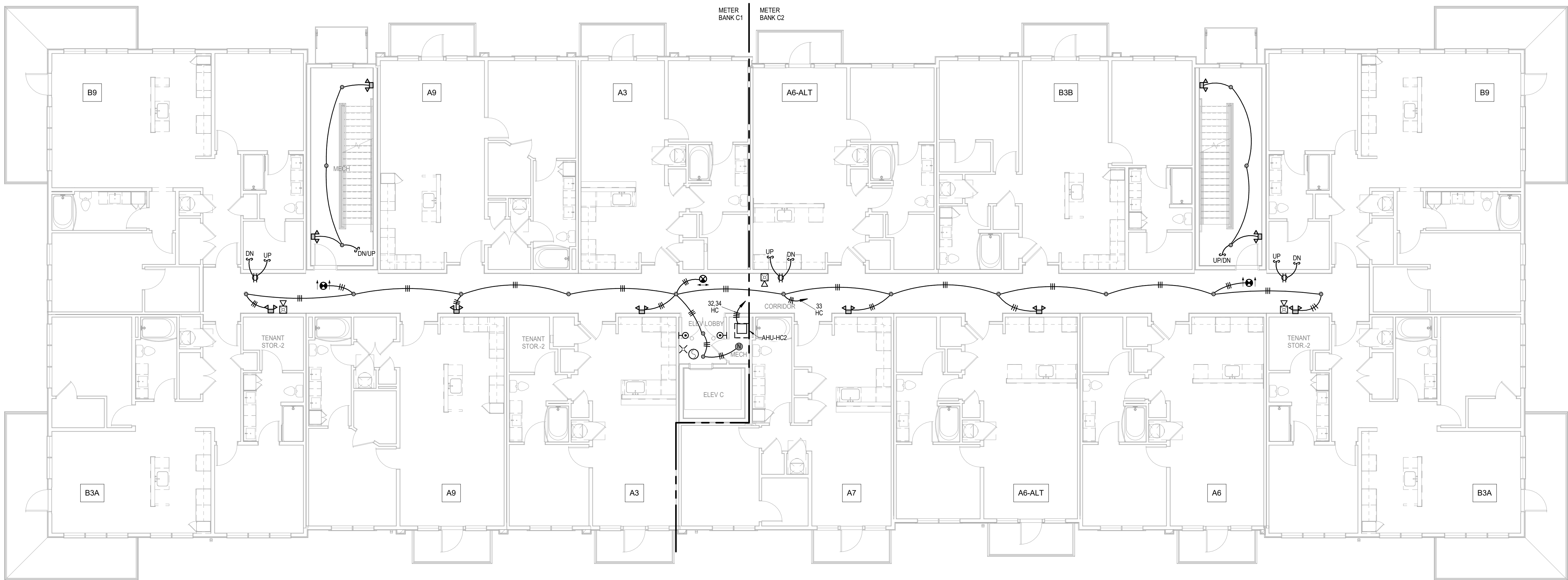
JOB NO. 720522 DATE 09.16.2024
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LSA PROJECT NO. 2404027

SHEET NAME
BUILDING C - FIRST FLOOR
PLAN - ELECTRICAL
SHEET NO.

E1.31

- | ELECTRICAL BUILDING NOTES: | |
|----------------------------|--|
| 1. | COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OR WORK PRIOR TO INSTALLATION BEGINNING. |
| 2. | SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. SEE HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM SYSTEM. |
| 3. | EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS. |
| 4. | PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT. |
| 5. | FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS FOR LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER. |
| 6. | LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED. |
| 7. | PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/ EQUIPMENT SERVED. |
| 8. | SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. |
| 9. | SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS. |
| 10. | ALL DISC FIXTURES ARE TYPE X1 UNO
ALL CLOSET FIXTURES ARE TYPE X1 UNO
ALL    FIXTURES ARE TYPE X1 UNO
ALL  FIXTURES ARE TYPE X2 UNO
ALL  FIXTURES ARE TYPE X3 UNO
ALL  FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "LWF" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER |
| 11. | SEE ARCHIT. PLANS FOR ALL POWER NEEDS AND LOCATIONS. |
| 12. | GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED |
| 13. | ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCALL |



1 BUILDING C - 2ND FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 2, 4)

Δ REVISIONS

JOB NO. **720522** DATE **09.16.2024**
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SHEET NAME
**BUILDING C - SECOND
FLOOR PLAN - ELECTRICAL**
SHEET NO.

E1.32

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Email: lsapa@lsapa.com

LSA PROJECT NO. 2404027

- ELECTRICAL BUILDING NOTES:
1.

COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OR WORK PRIOR TO INSTALLATION BEGINNING.
2.

SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. SEE HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM SYSTEM.
3.

EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4.

PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5.







FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS FOR LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6.

LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7.

PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/ EQUIPMENT SERVED.
8.

SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9.

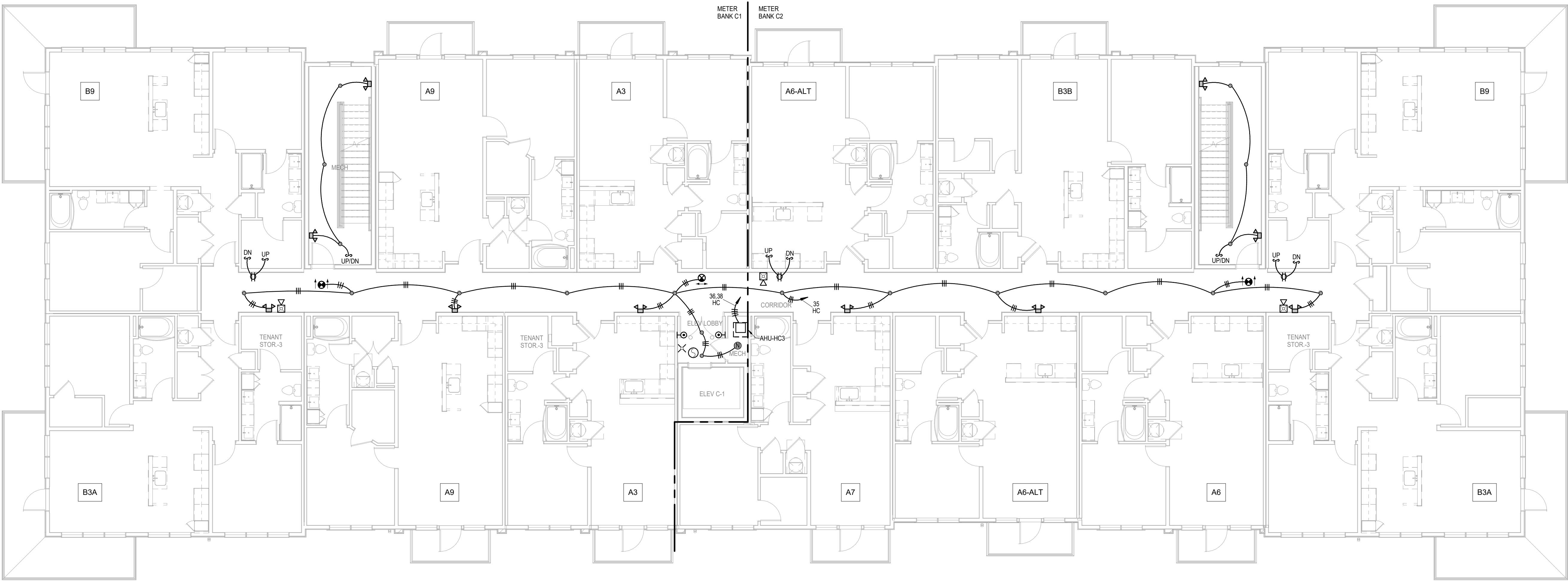
SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10.

ALL DISC FIXTURES ARE TYPE A UNO
ALL CLOSET FIXTURES ARE TYPE N UNO
ALL   FIXTURES ARE TYPE X1 UNO
ALL   FIXTURES ARE TYPE X2 UNO
ALL  FIXTURES ARE TYPE X3 UNO
ALL  FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "L#/" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
11.

SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
12.

GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
13.

ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL



1

BUILDING C - 3RD FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522

DATE
09.16.2024

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Author

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LSA PROJECT NO. 2404027

SHEET NAME
BUILDING C - THIRD FLOOR
PLAN - ELECTRICAL

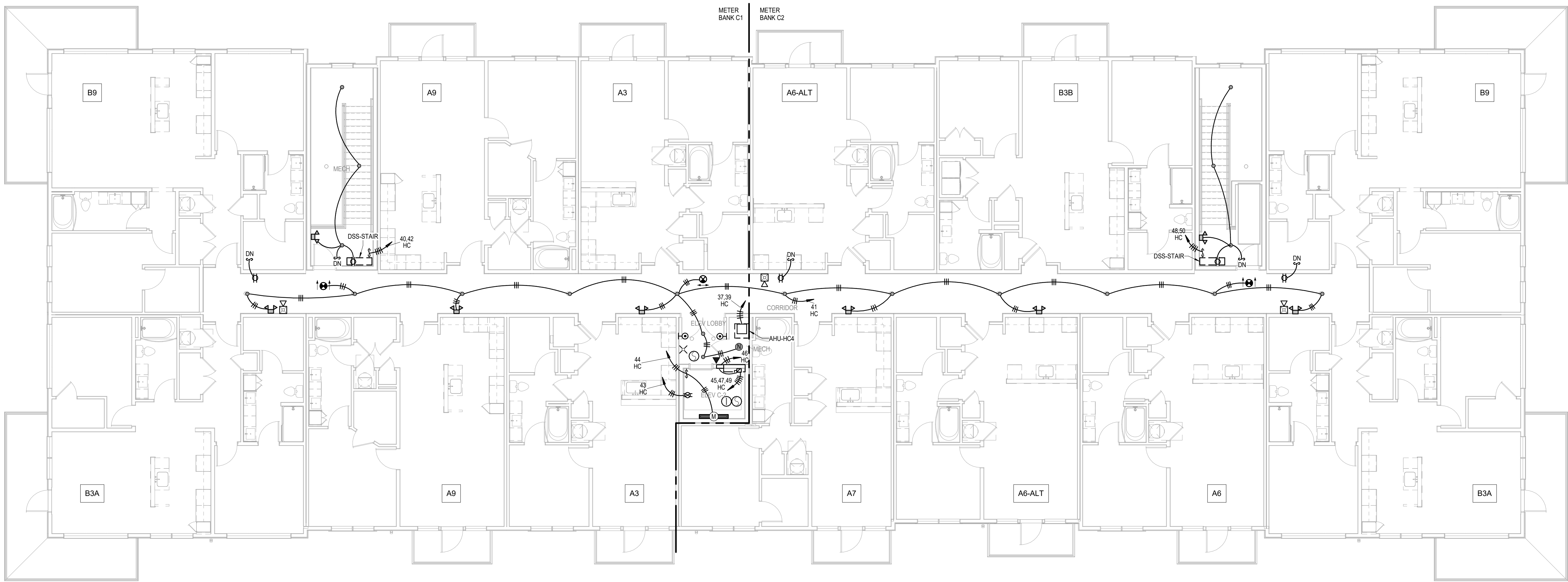
SHEET NO.

E1.33



9/16/2024

- ELECTRICAL BUILDING NOTES:
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1 BUILDING C - 4TH FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING C - FOURTH
FLOOR PLAN - ELECTRICAL
SHEET NO.

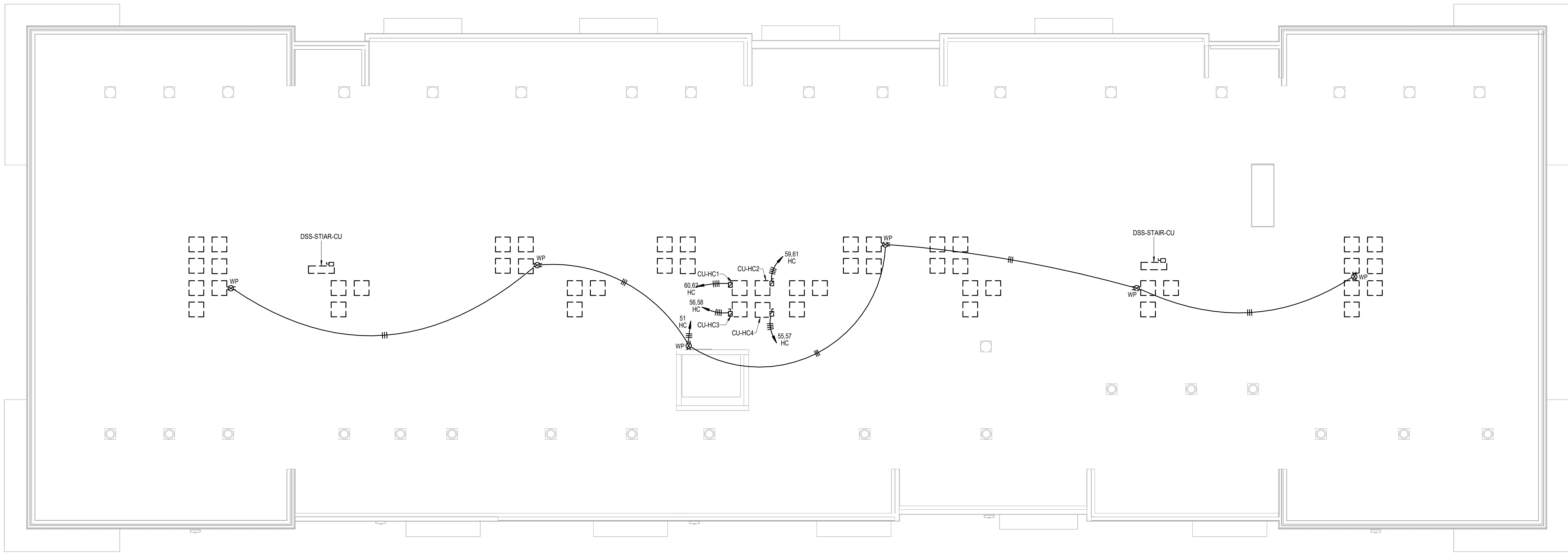
E1.34

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LSA PROJECT NO. 2404027



9/16/2024

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1 BUILDING C - ROOF PLAN
ELECTRICAL
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

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SHEET NAME
BUILDING C - ROOF PLAN - ELECTRICAL
SHEET NO.

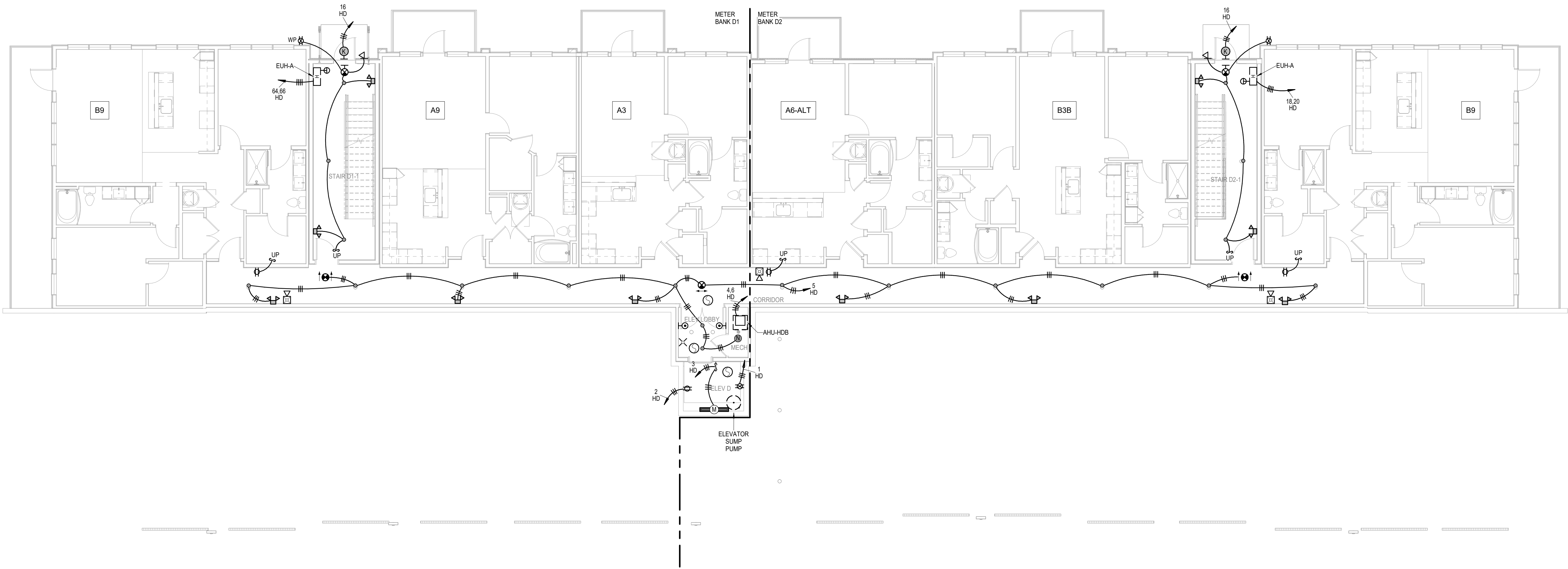
E1.35

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1 **BUILDING D - BASEMENT FLOOR PLAN**
ELECTRICAL
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
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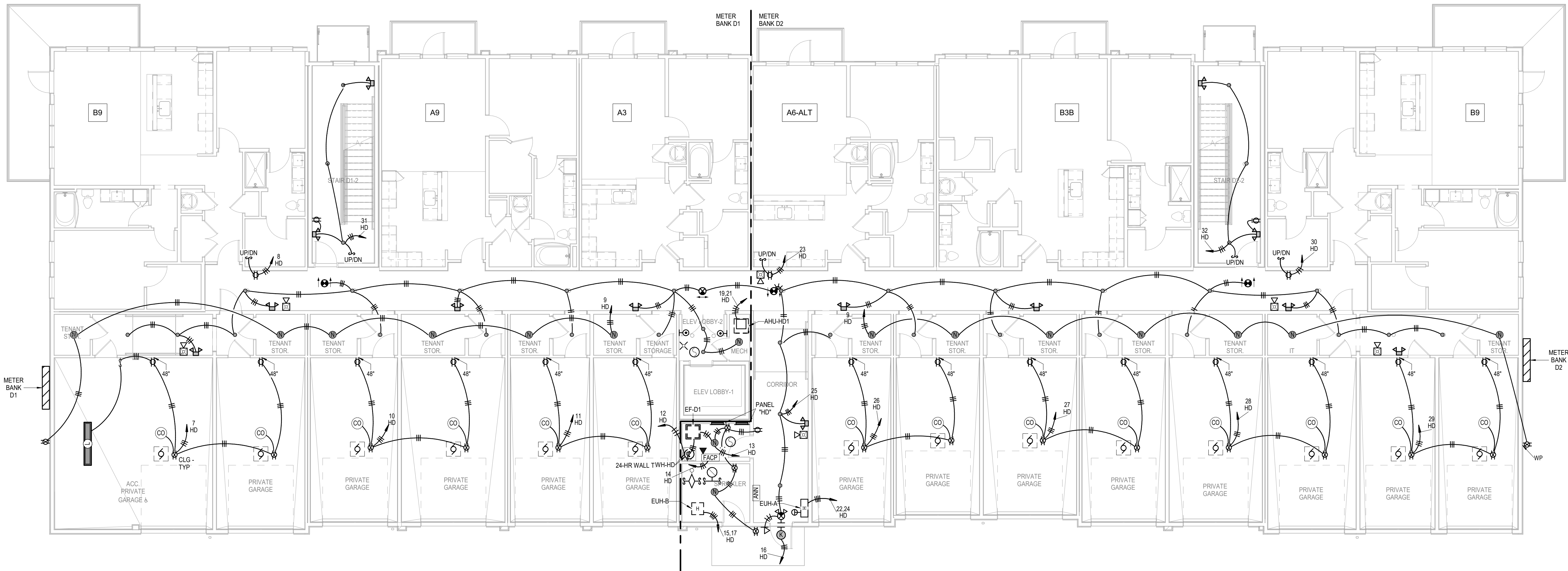
SHEET NAME
BUILDING D - BASEMENT
FLOOR PLAN - ELECTRICAL
SHEET NO.

E1.40



9/16/2024

- ELECTRICAL BUILDING NOTES:
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1 BUILDING D - 1ST FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

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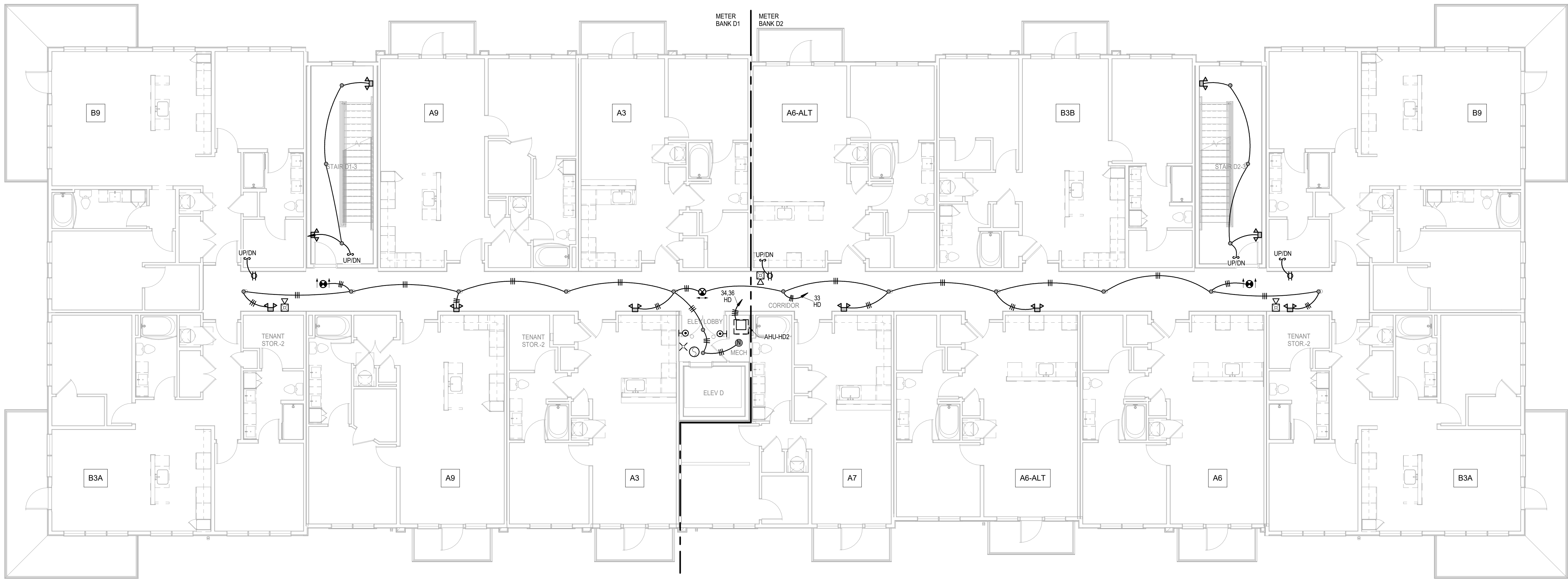
SHEET NAME
BUILDING D - FIRST FLOOR
PLAN - ELECTRICAL
SHEET NO.

E1.41



9/16/2024

- ELECTRICAL BUILDING NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OR WORK PRIOR TO INSTALLATION BEGINNING.
 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. SEE HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM SYSTEM.
 - EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
 - PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
 - FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS FOR LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
 - LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
 - PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/ EQUIPMENT SERVED.
 - SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
 - SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
 - ALL DISC FIXTURES ARE TYPE A UNO
ALL CLOSET FIXTURES ARE TYPE N UNO
ALL FIXTURES ARE TYPE X1 UNO
ALL FIXTURES ARE TYPE X2 UNO
ALL FIXTURES ARE TYPE X3 UNO
ALL FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "L#/" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
 - SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
 - GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
 - ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL



1 BUILDING D - 2ND FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DATE 09.16.2024
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING D - SECOND
FLOOR PLAN - ELECTRICAL
SHEET NO.

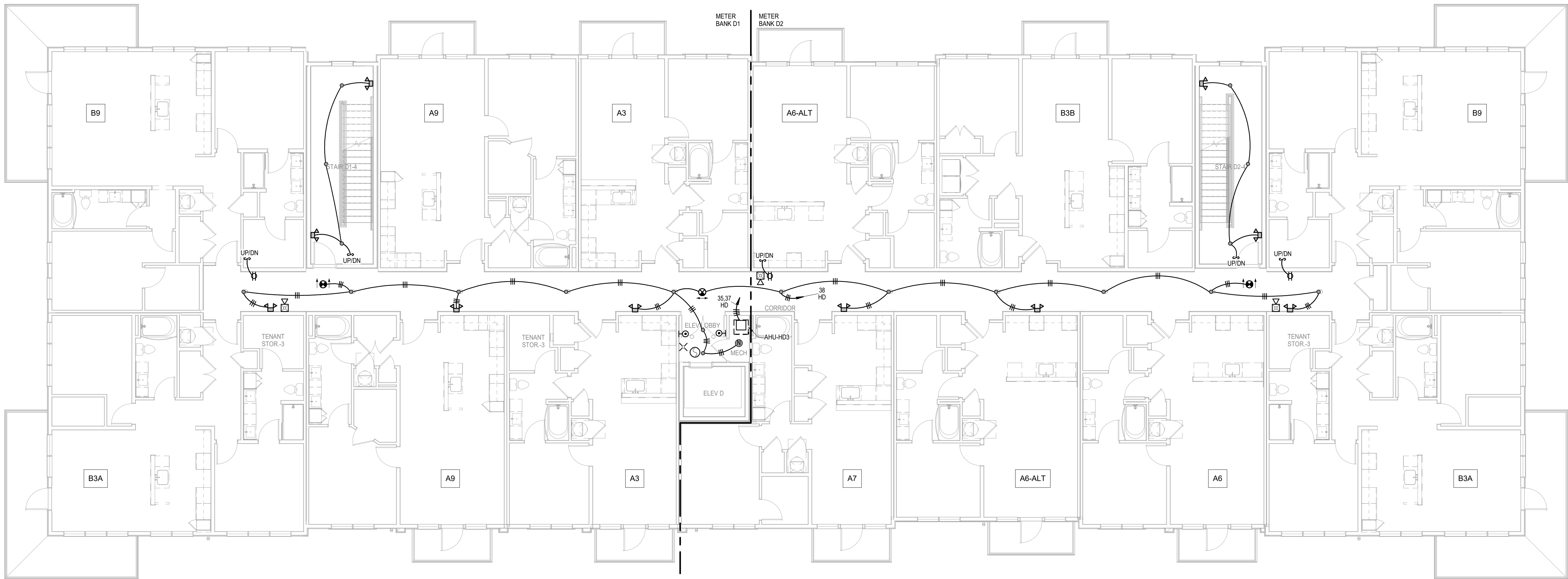
E1.42

LS&A
Latimer Sommers
& Associates P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
624 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (765) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027



9/16/2024

- ELECTRICAL BUILDING NOTES:
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ALL CLOSET FIXTURES ARE TYPE N UNO
ALL FIXTURES ARE TYPE X1 UNO
ALL FIXTURES ARE TYPE X2 UNO
ALL FIXTURES ARE TYPE X3 UNO
ALL FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "LH#" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
 - SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
 - GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
 - ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL.



1 BUILDING D - 3RD FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DATE 09.16.2024
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING D - THIRD FLOOR
PLAN - ELECTRICAL
SHEET NO.

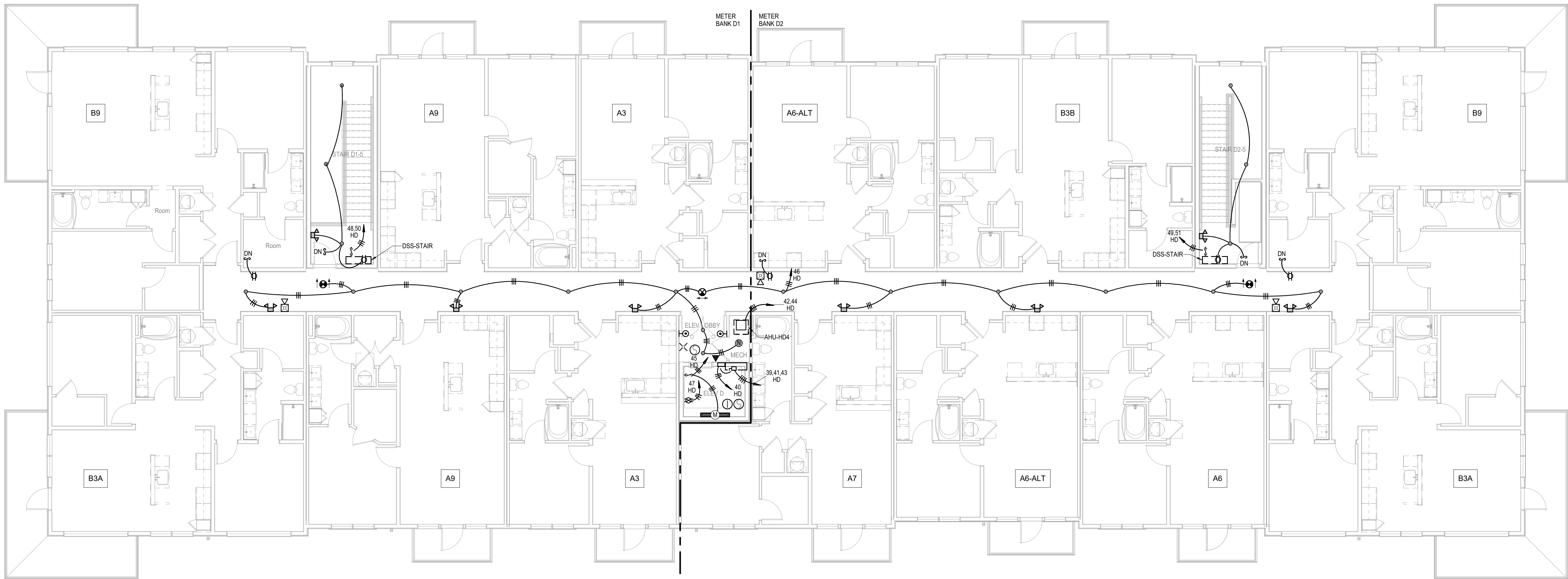
E1.43

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ALL FIXTURES ARE TYPE X1 UNO
ALL FIXTURES ARE TYPE X2 UNO
ALL FIXTURES ARE TYPE X3 UNO
ALL FIXTURES ARE TYPE X4 UNO
FIXTURES DESIGNATED AS "LH#" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
 - SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
 - GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
 - ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL



1 BUILDING D - 4TH FLOOR PLAN
ELECTRICAL
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING D - FOURTH
FLOOR PLAN - ELECTRICAL
SHEET NO.

E1.44

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LSA PROJECT NO. 2404027

- ELECTRICAL BUILDING NOTES:
1.

COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OR WORK PRIOR TO INSTALLATION BEGINNING.
2.

SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. SEE HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM SYSTEM.
3.

EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
4.

PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
5.

FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS FOR LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
6.

LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
7.

PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/ EQUIPMENT SERVED.
8.

SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
9.

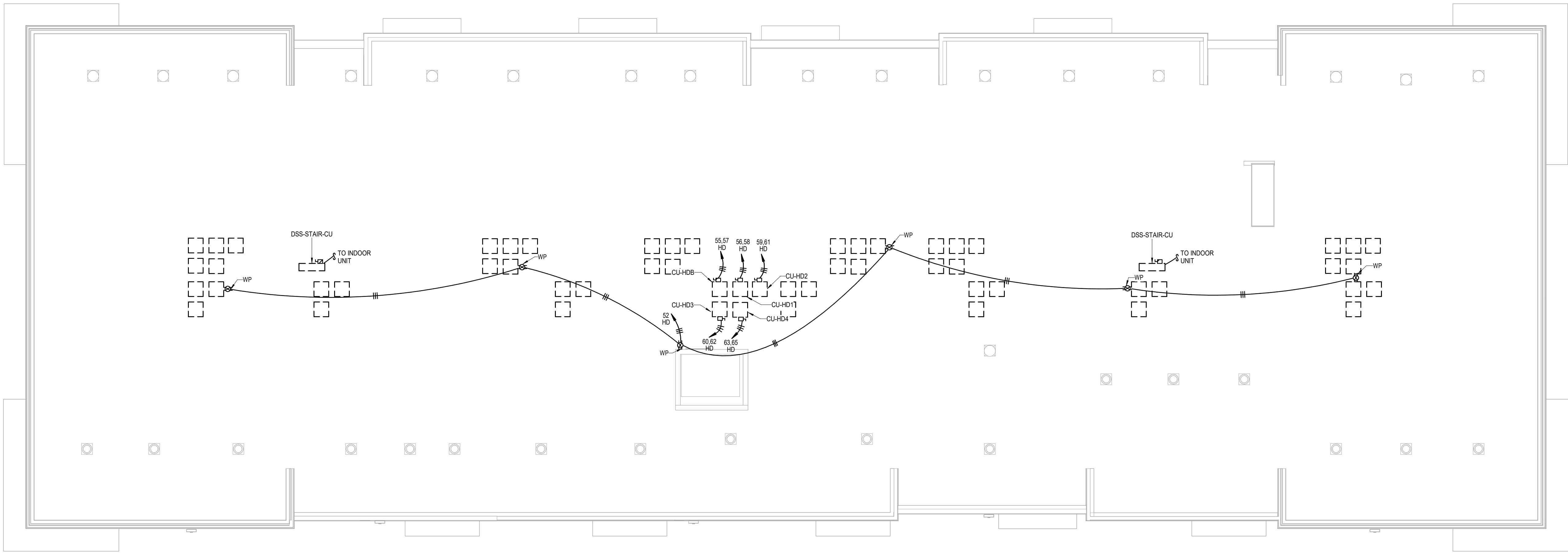
SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
10.

ALL DISC FIXTURES ARE TYPE A UNO
ALL CLOSET FIXTURES ARE TYPE N UNO
ALL FIXTURES ARE TYPE X1 UNO
ALL FIXTURES ARE TYPE X2 UNO
ALL FIXTURES ARE TYPE X3 UNO
ALL FIXTURES ARE TYPE X4 UNO
ALL FIXTURES DESIGNATED AS "L#H" IN CLUB AREA TO BE SPECIFIED BY INTERIOR DESIGNER
11.

SEE ARCH/ID PLANS FOR ALL POWER NEEDS AND LOCATIONS.
12.

GARAGE CO DETECTORS TO OPEN DOOR WHEN TRIPPED.
13.

ALL EXTERIOR LIGHTS ROUTE THRU PHOTOCELL



1

BUILDING D - ROOF PLAN

ELECTRICAL

1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG

09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522

DATE
09.16.2024

DRAWN BY
Author

PERMIT SET

LS&A

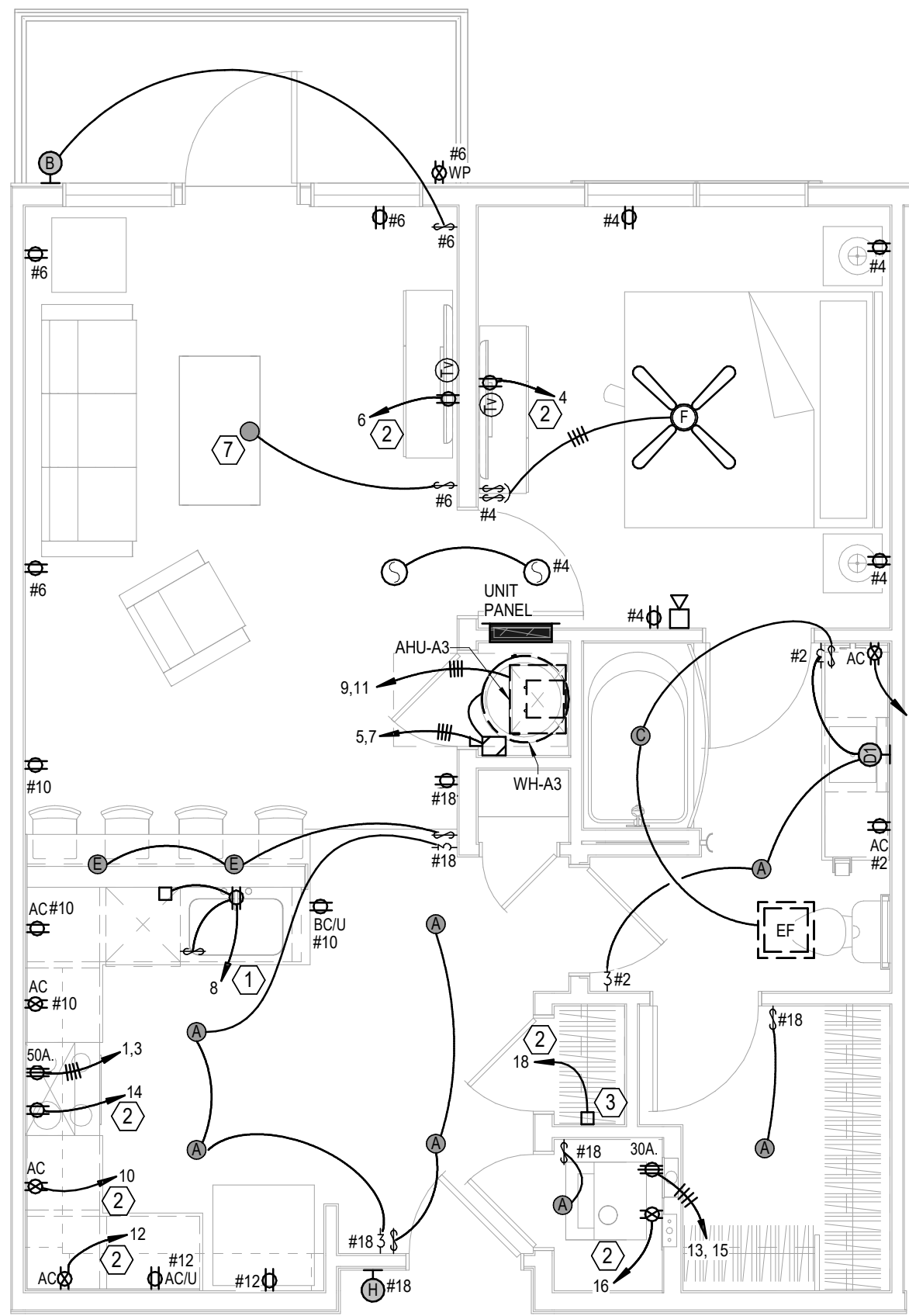
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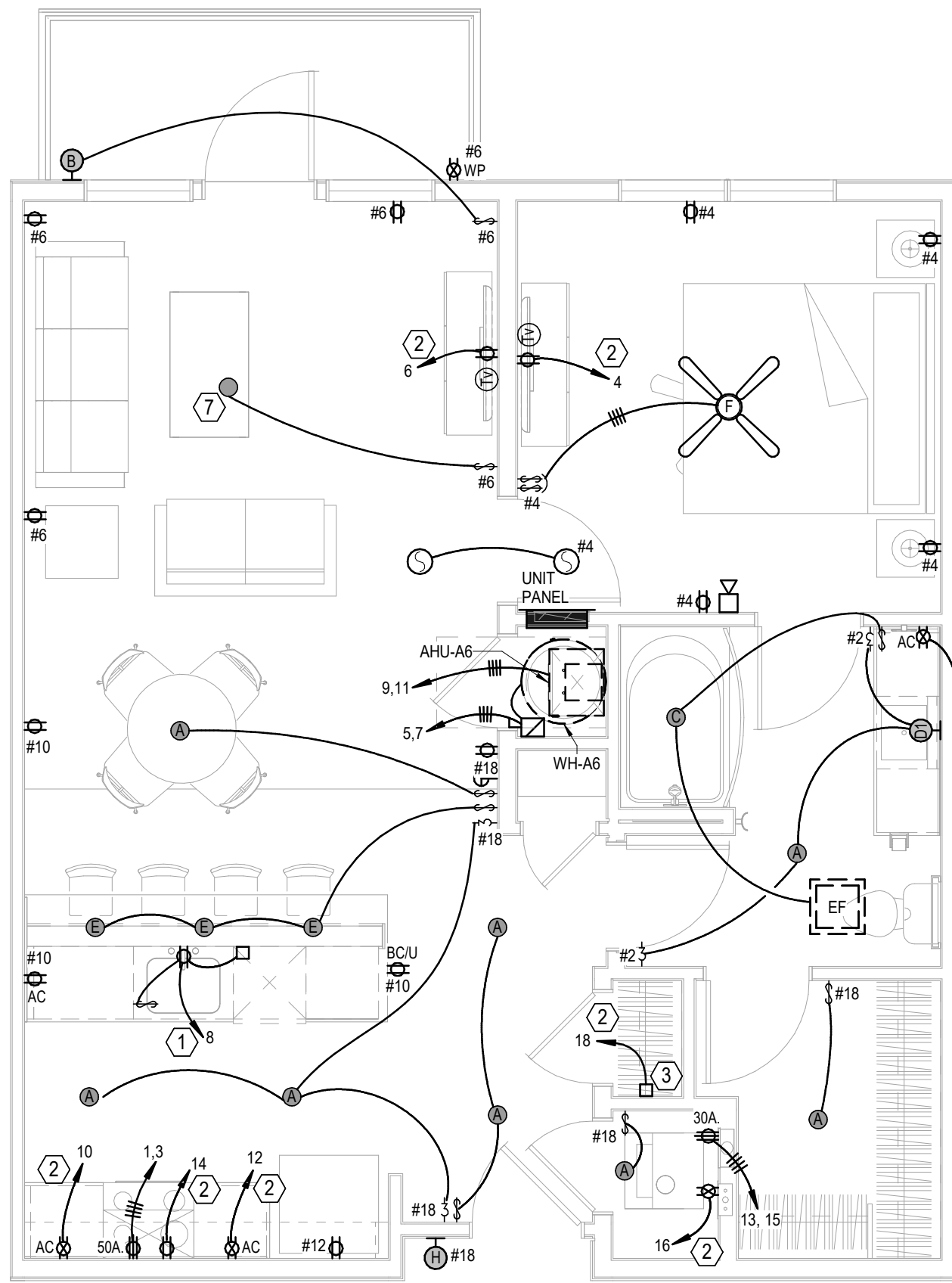
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BUILDING D - ROOF PLAN -
ELECTRICAL

SHEET NO.

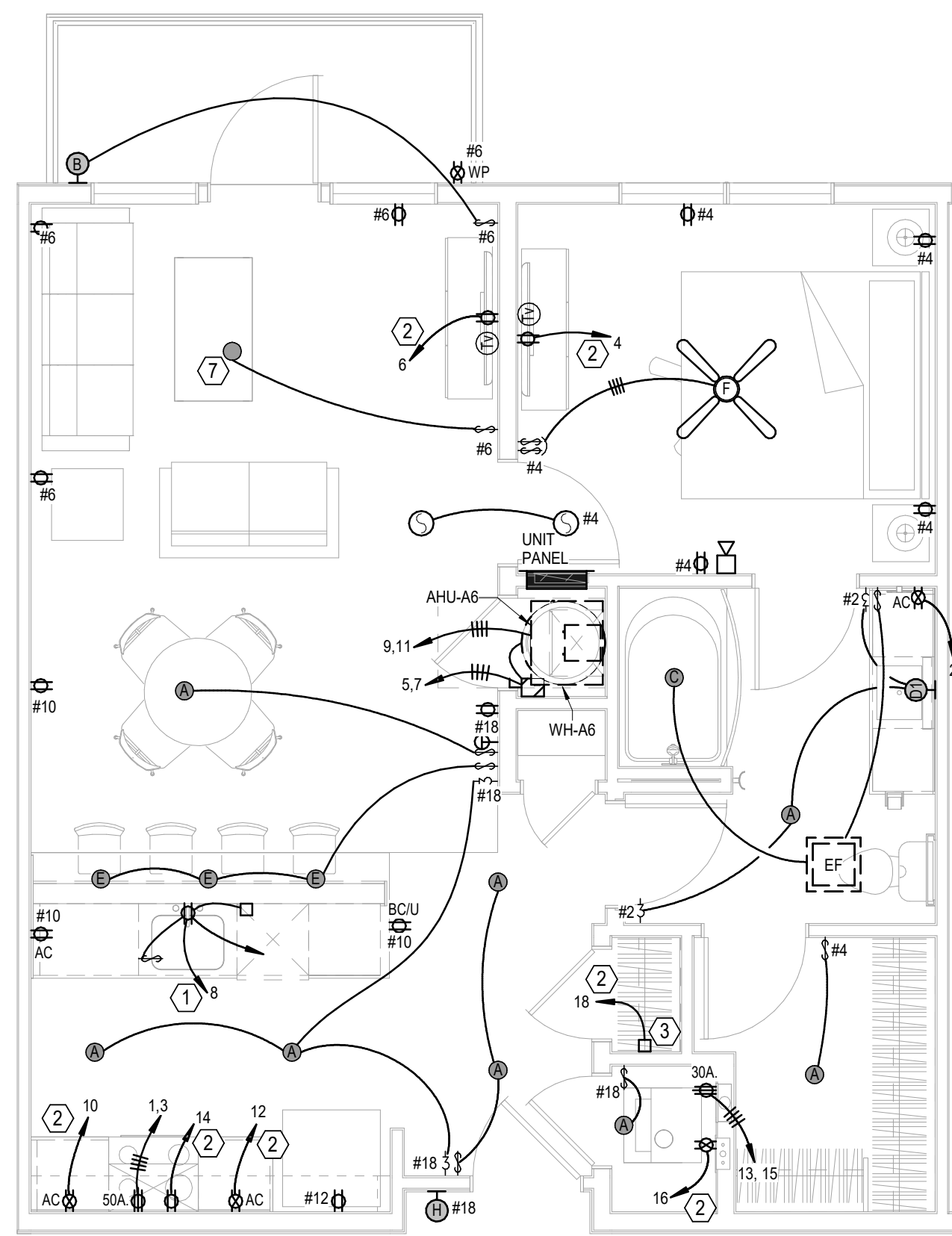
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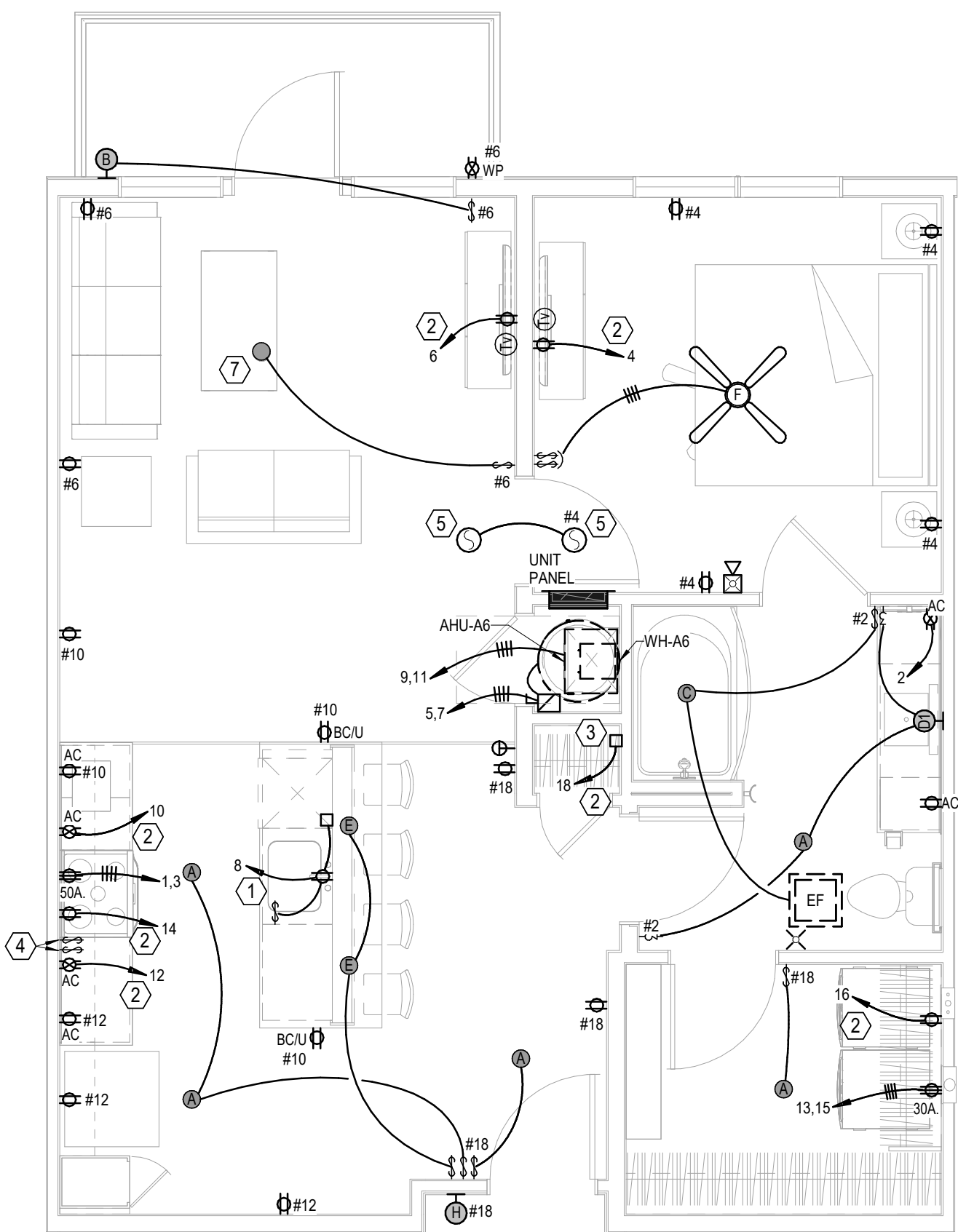
1 UNIT A3
ELECTRICAL
1/4" = 1'-0"



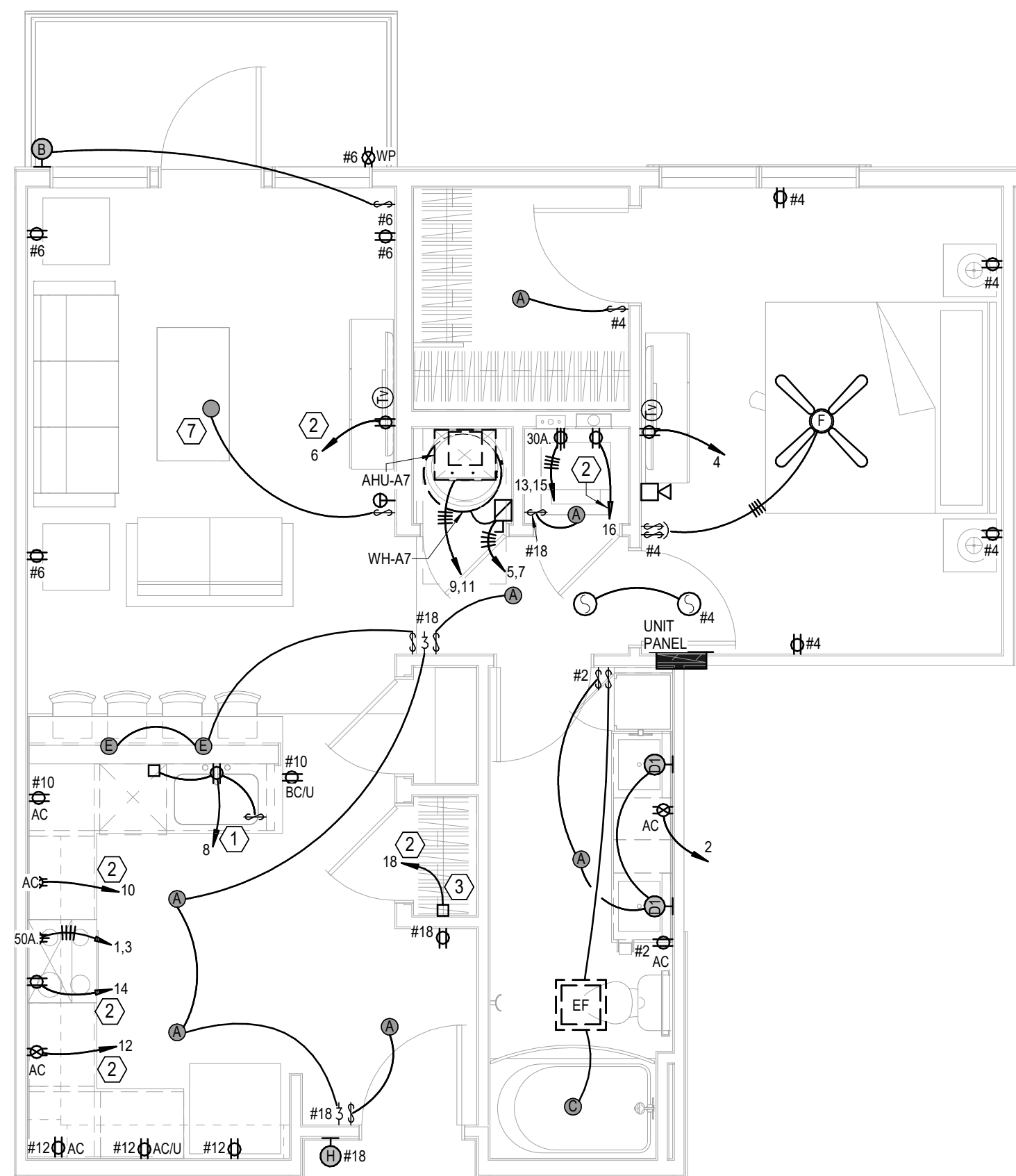
2 UNIT A6
ELECTRICAL
1/4" = 1'-0"



3 UNIT A6 ALT
ELECTRICAL
1/4" = 1'-0"



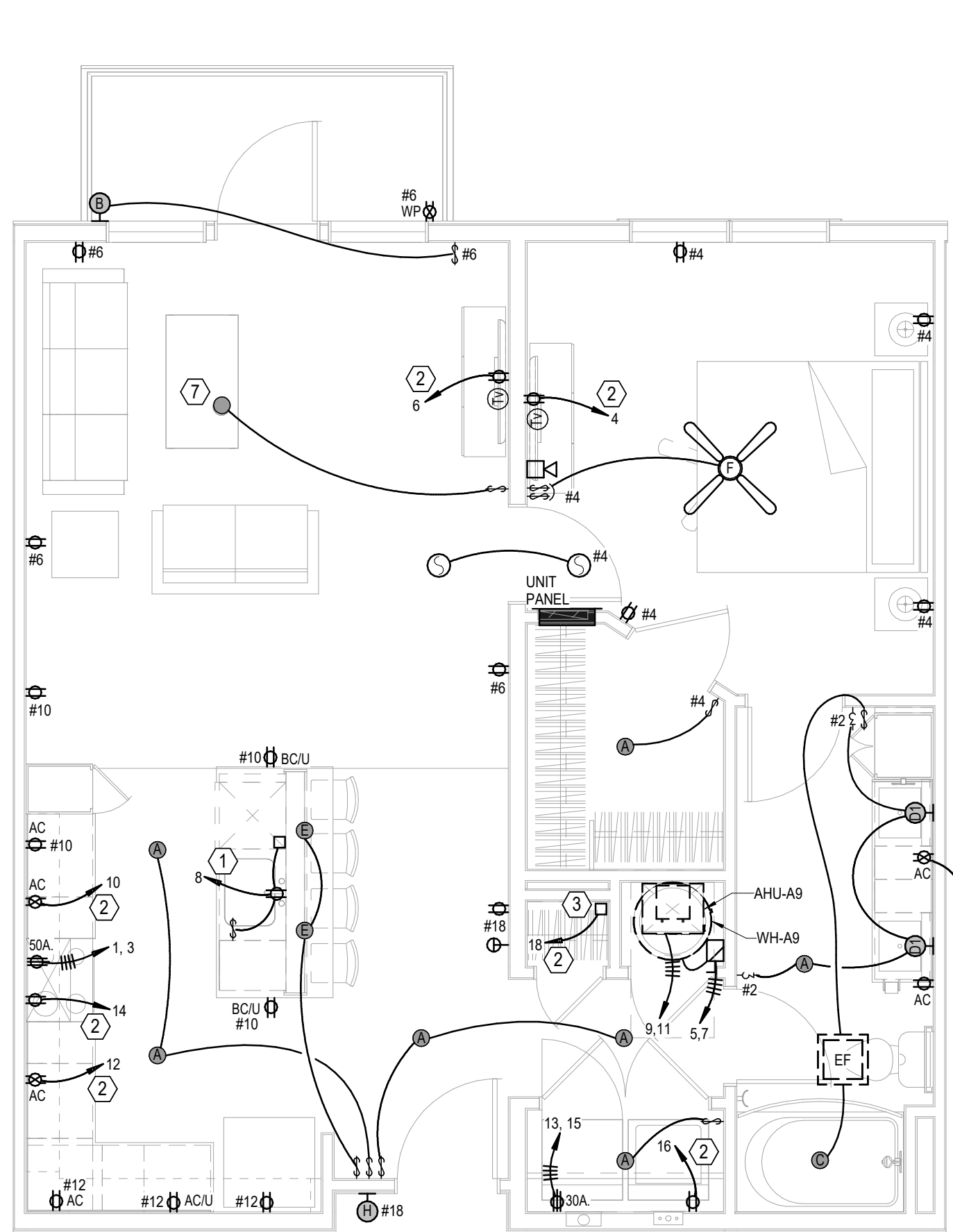
4 UNIT A6 TYPE A
ELECTRICAL
1/4" = 1'-0"



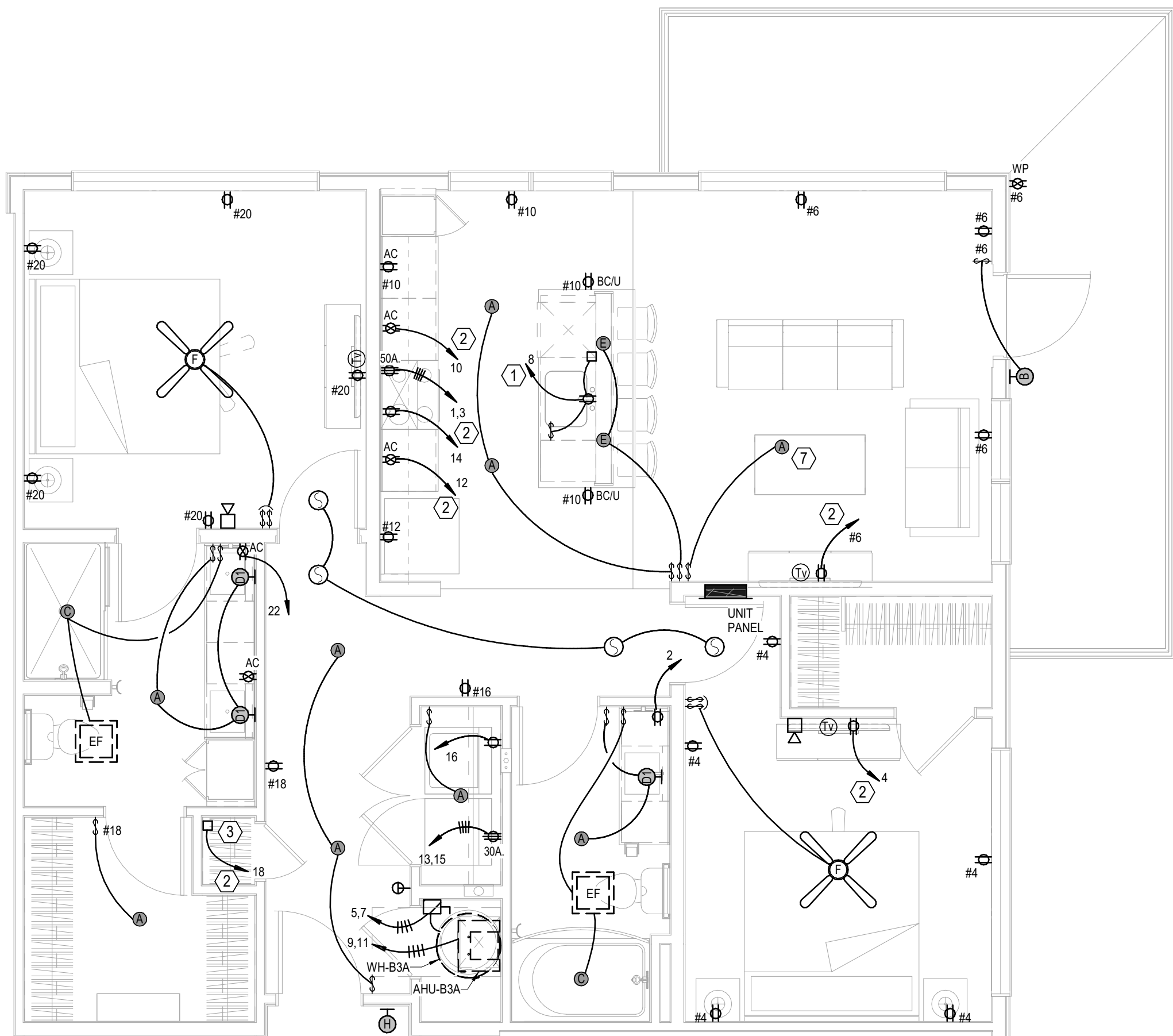
5 UNIT A7
ELECTRICAL
1/4" = 1'-0"

- NOTES:**
- HALLWAY ENTRY SCONCES ARE UNSWITCHED. MOUNT AT 84" AFF. VERIFY WITH ARCHITECT.
 - CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 - GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
 - THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
 - Q = 120V. SMOKE ALARM WITH BATTERY BACK - UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
 - ALL ARC - FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES.
 - PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IRC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES. NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS.
 - FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
 - ALL RANGES SERVED BY (3)#8 and (1)#10 AND 50A. RECEPTACLE.
 - ALL WATER HEATERS SERVED BY (3)#10. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE.
 - ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY).
 - SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.
 - BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.

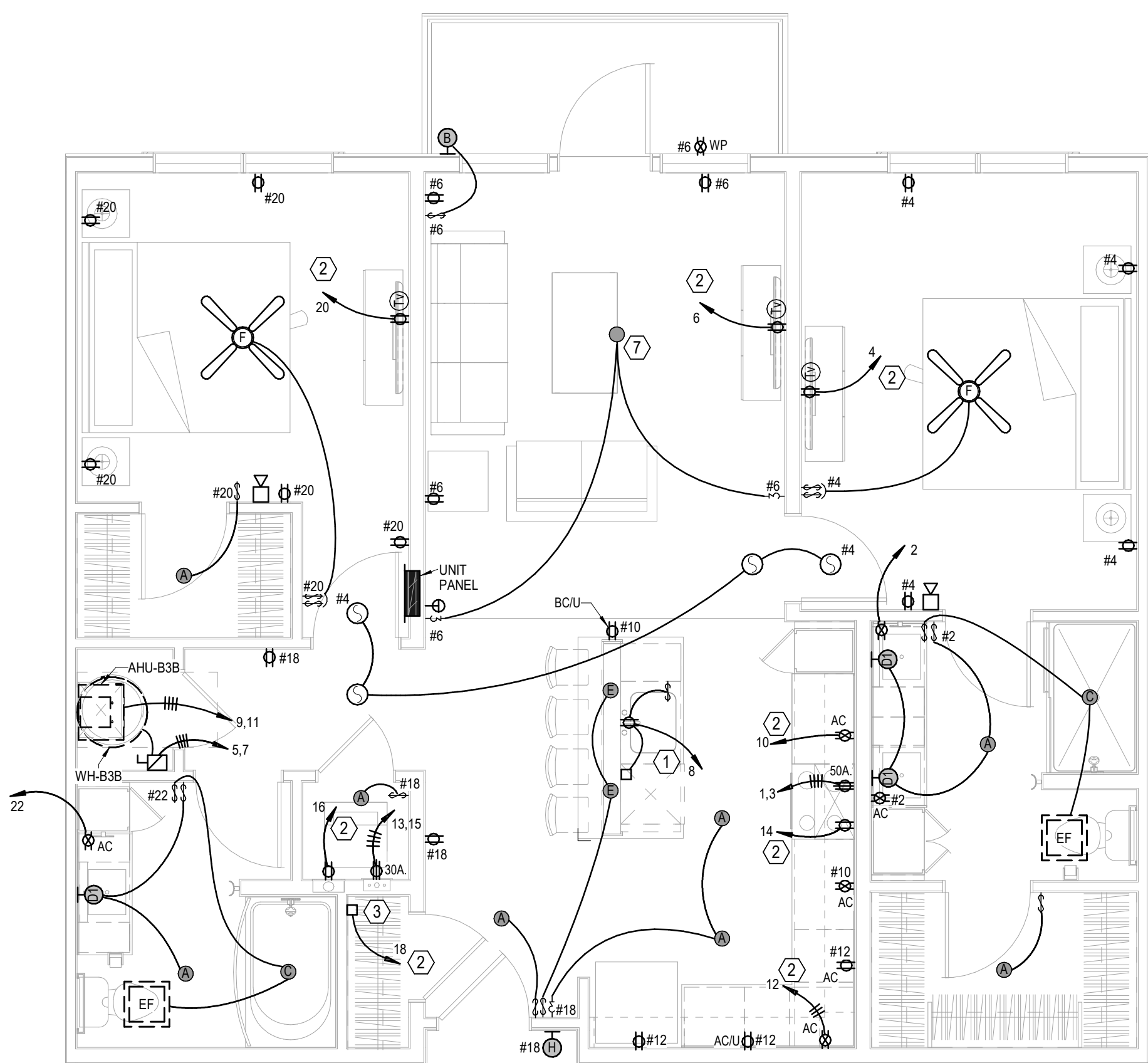
- LEGEND:**
- SWITCHED RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. TO COMBINATION ARC FAULT-GFI BREAKER.
 - PROVIDE ARC-FAULT BREAKER IN PANEL.
 - TELETVY DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
 - SWITCHES FOR OVERHEAD MW FAN & LIGHT.
 - SMOKE ALARM TO HAVE STROBES.
 - RECEPTACLE FOR BEVERAGE COOLER ON TOP FLOOR UNITS ONLY.
 - FIXTURE TO BE IN FAN RATED BOX.



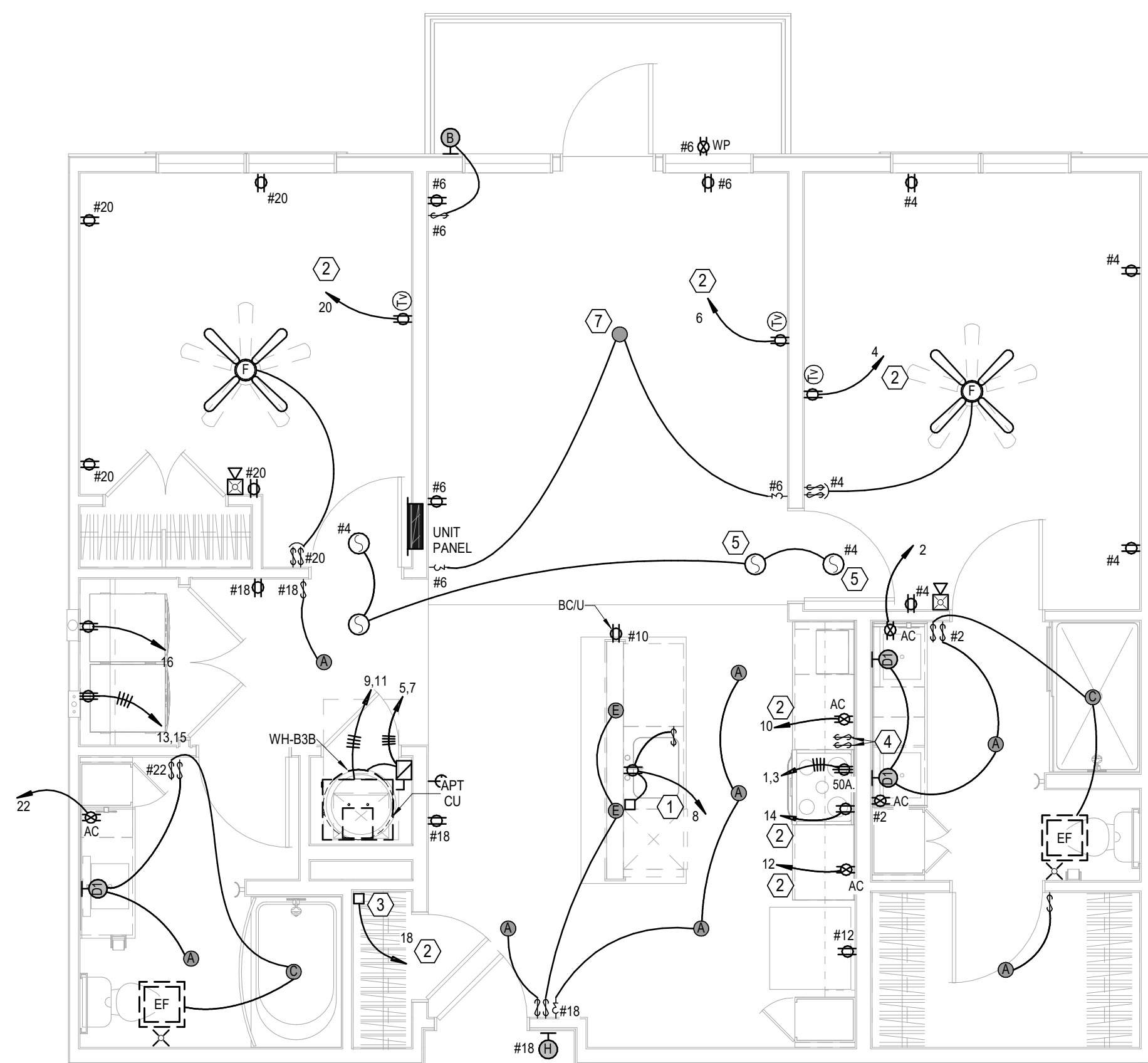
1 **UNIT A9**
ELECTRICAL
1/4" = 1'-0"



2 **UNIT B3A**
ELECTRICAL
1/4" = 1'-0"



3 **UNIT B3B**
ELECTRICAL
1/4" = 1'-0"



4 **UNIT B3B TYPE A**
ELECTRICAL
1/4" = 1'-0"

- NOTES:**
- HALLWAY ENTRY SCONCES ARE UNSWITCHED. MOUNT AT 84" AFF. VERIFY WITH ARCHITECT.
 - CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 - GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
 - THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
 - Q = 120V. SMOKE ALARM WITH BATTERY BACK - UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
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 - PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IRC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES. NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS.
 - FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
 - ALL RANGES SERVED BY (3)#8 and (1)#10 AND 50A. RECEPTACLE.
 - ALL WATER HEATERS SERVED BY (3)#10. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE.
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 - SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.
 - BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.

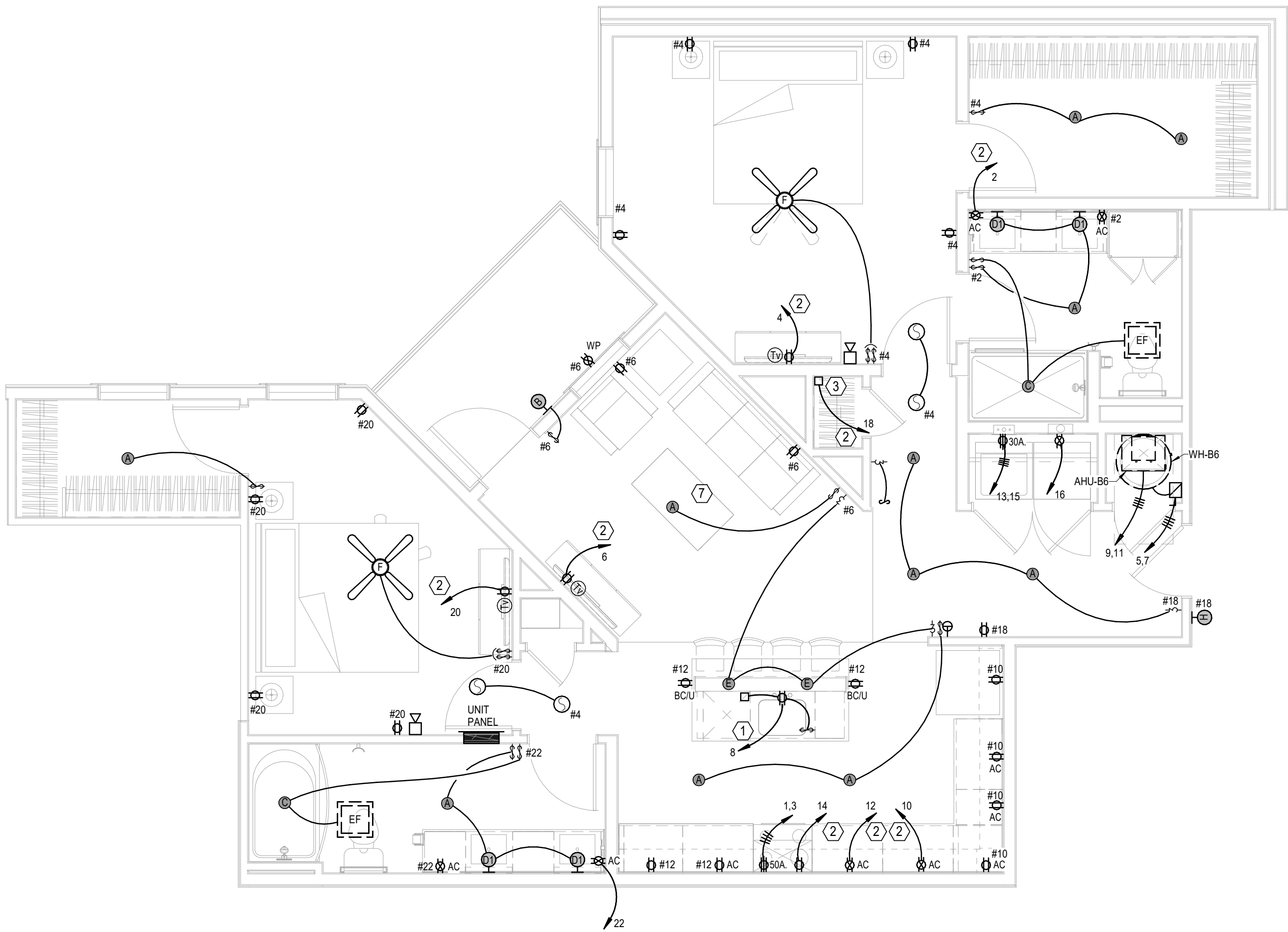
- LEGEND:**
- SWITCHED RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. TO COMBINATION ARC FAULT-GFI BREAKER.
 - PROVIDE ARC-FAULT BREAKER IN PANEL.
 - TELETVY DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
 - SWITCHES FOR OVERHEAD MW FAN & LIGHT.
 - SMOKE ALARM TO HAVE STROBES.
 - RECEPTACLE FOR BEVERAGE COOLER ON TOP FLOOR UNITS ONLY.
 - FIXTURE TO BE IN FAN RATED BOX.



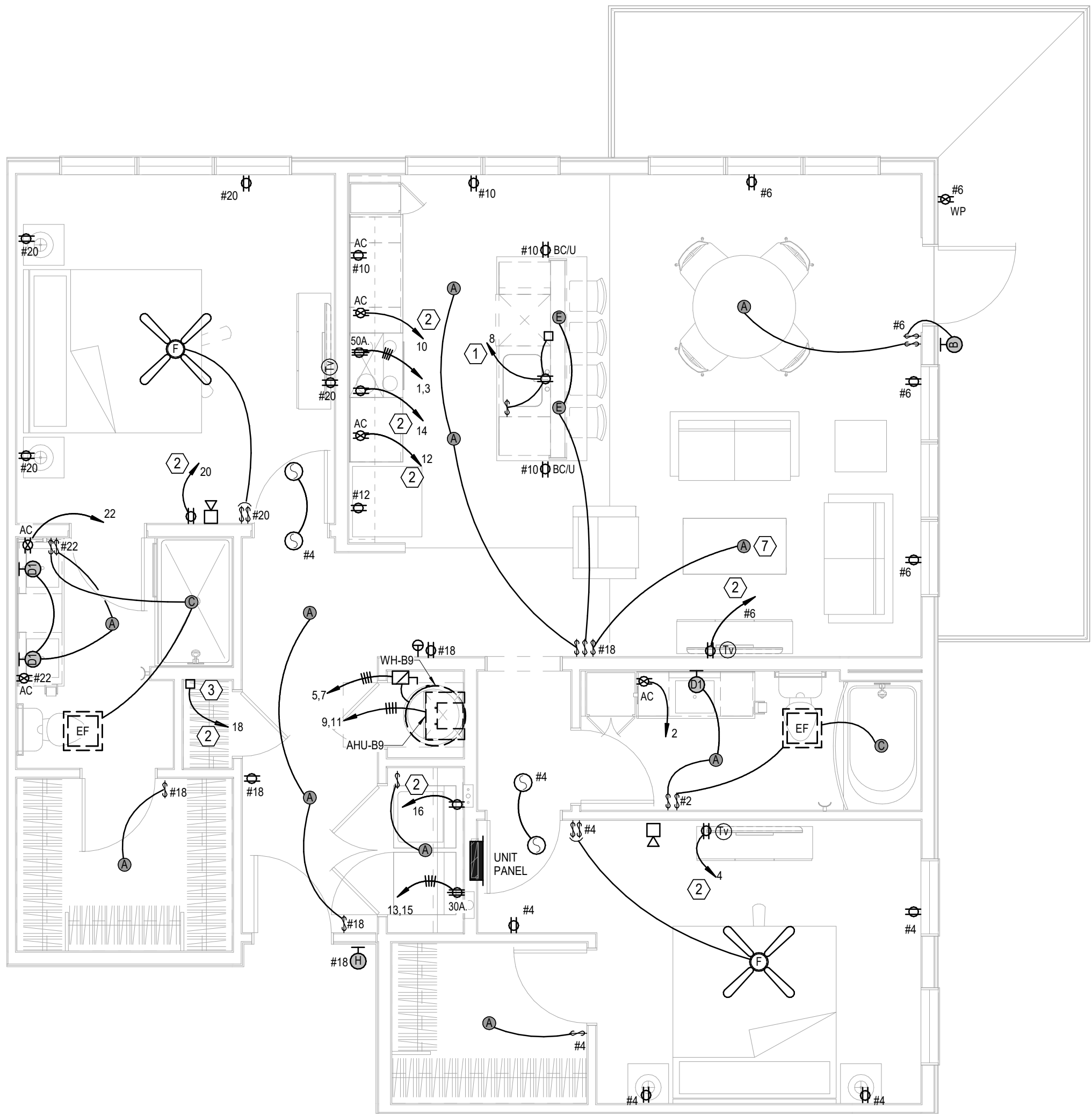
9/16/2024

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 - FIXTURE TO BE IN FAN RATED BOX.



1 UNIT B6
ELECTRICAL
1/4" = 1'-0"



2 UNIT B9
ELECTRICAL
1/4" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

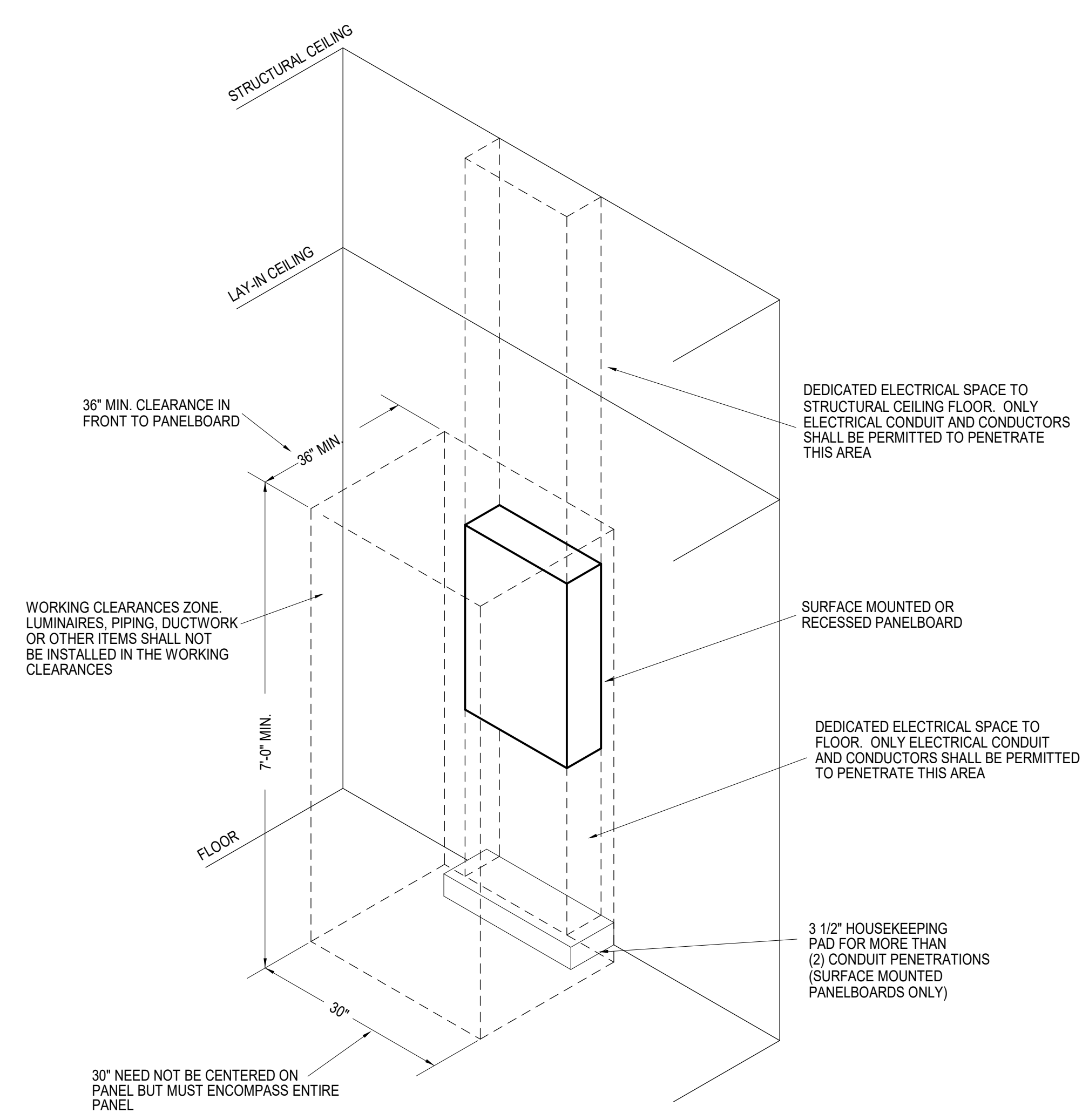
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DRAWN BY Author
PERMIT SET

SHEET NAME
ELECTRICAL UNITS

SHEET NO.

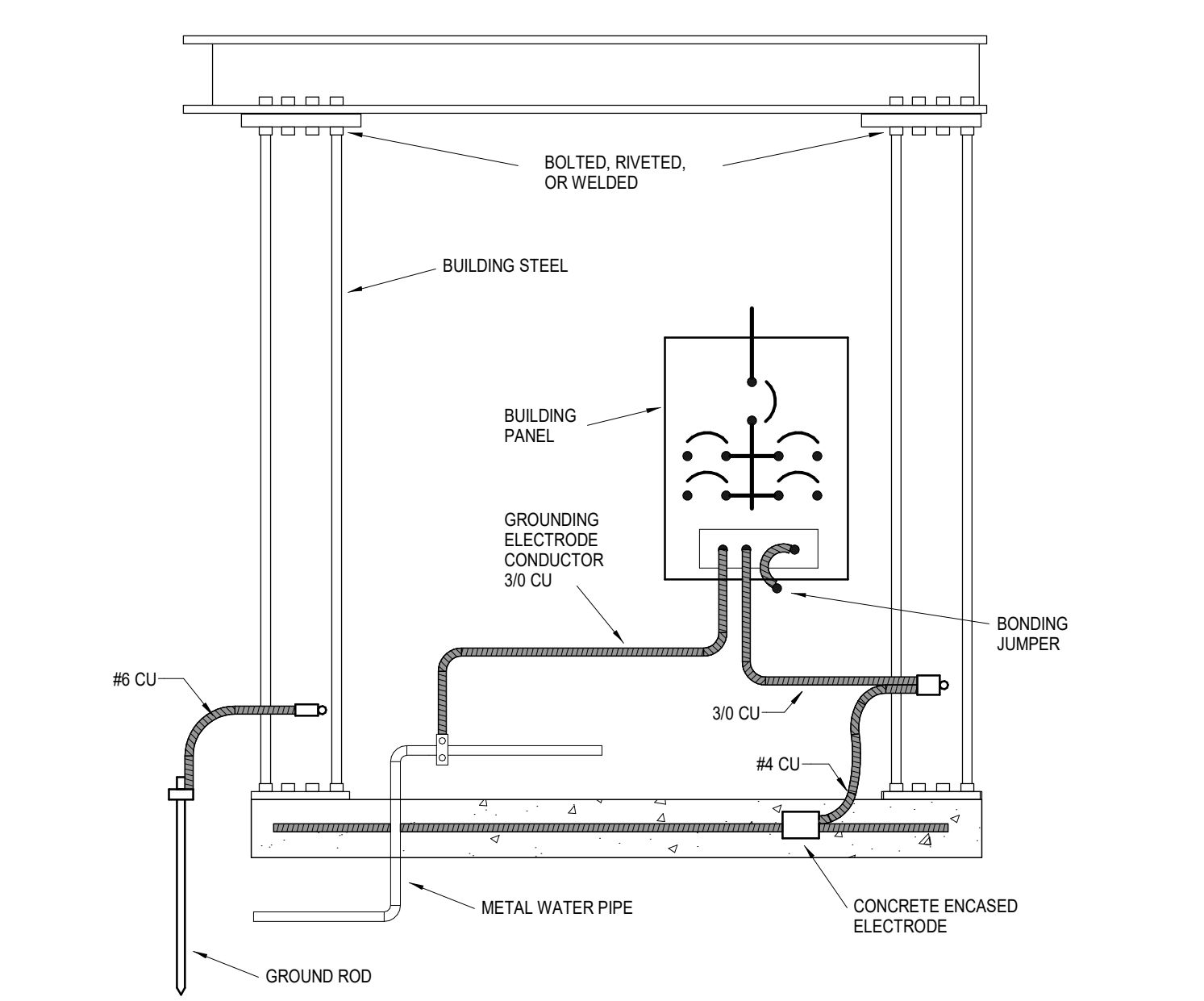
E2.03

LS&A
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LSA PROJECT NO. 2404027

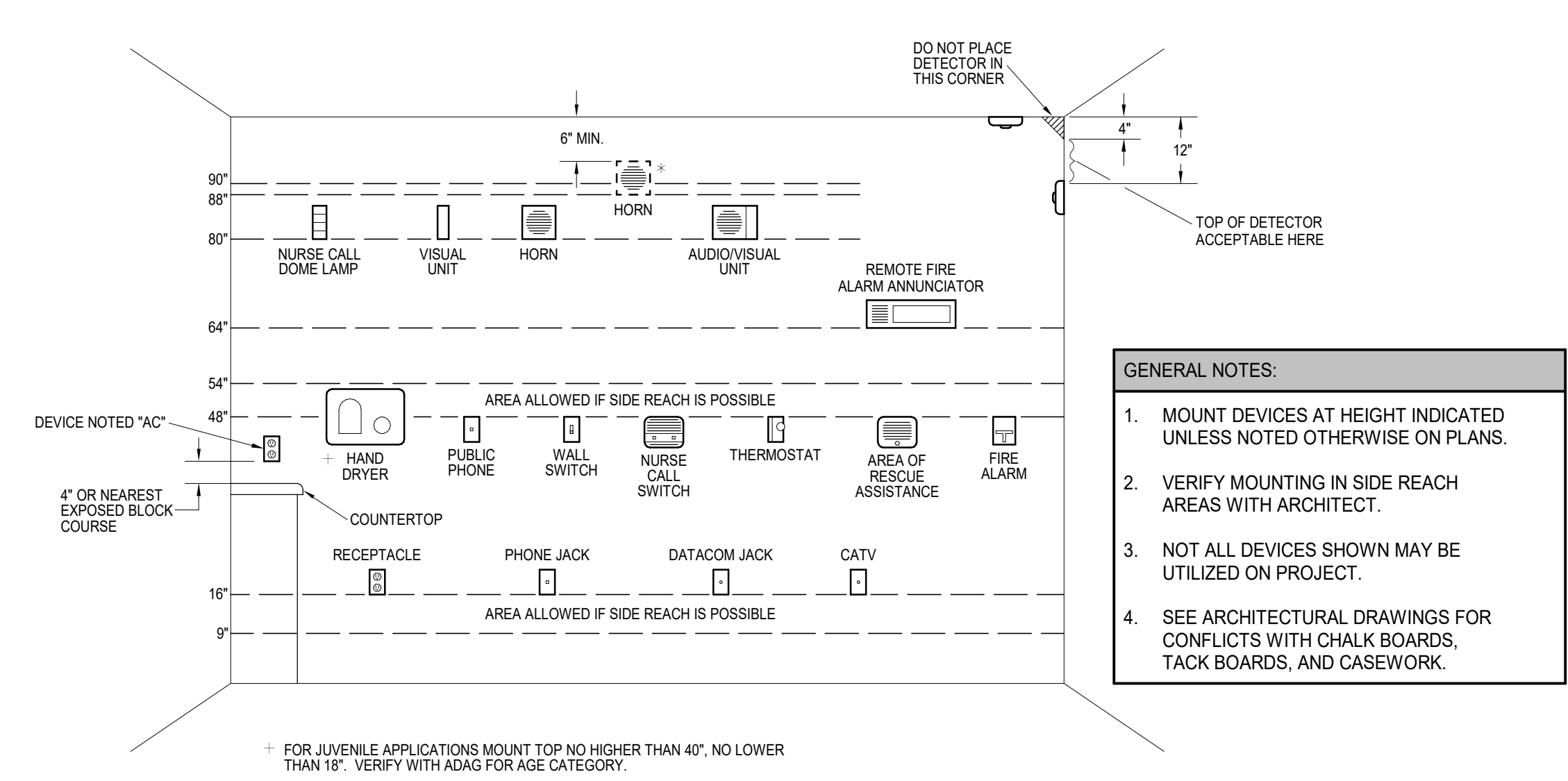


NOTE:
COORDINATE ALL WORK WITH OTHER TRADES. MAINTAIN ALL OTHER NEC CLEARANCES AND REQUIREMENTS.

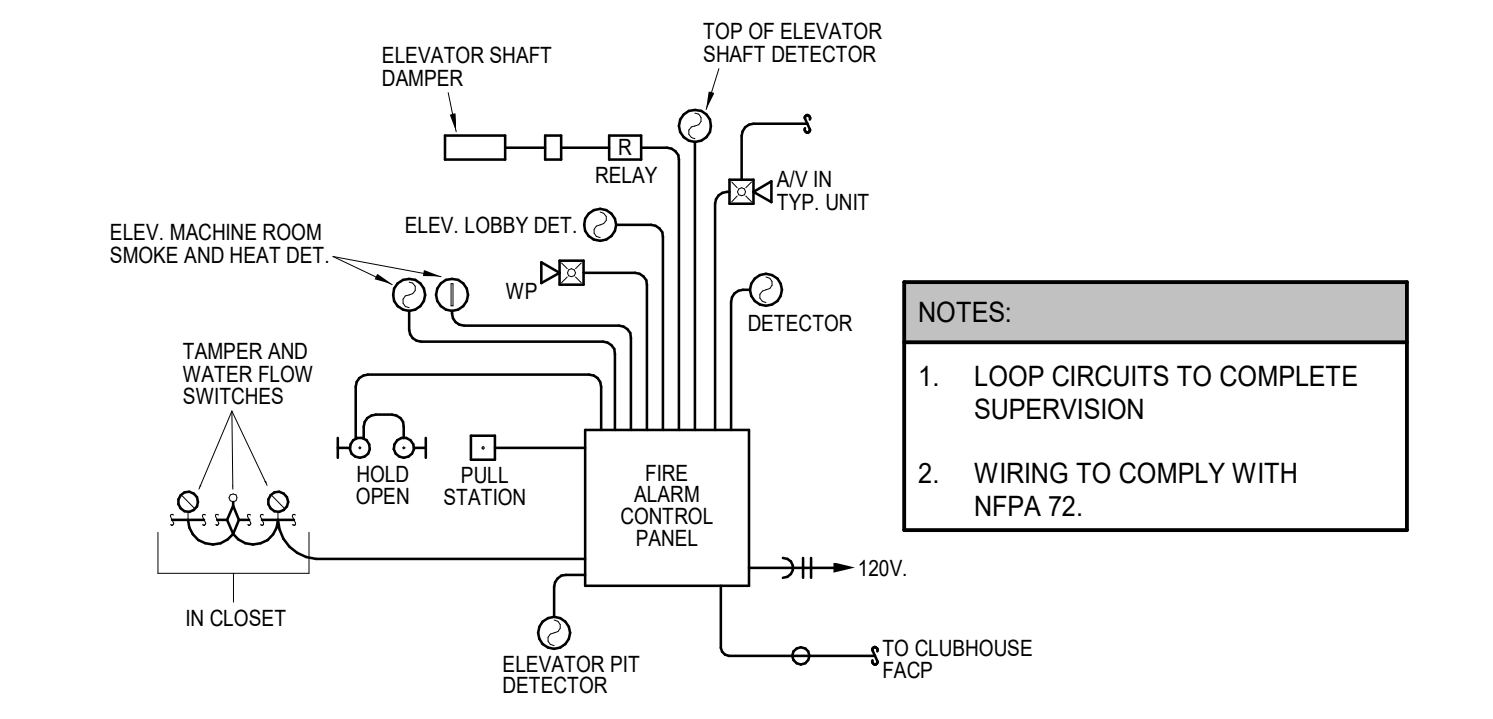
1 TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



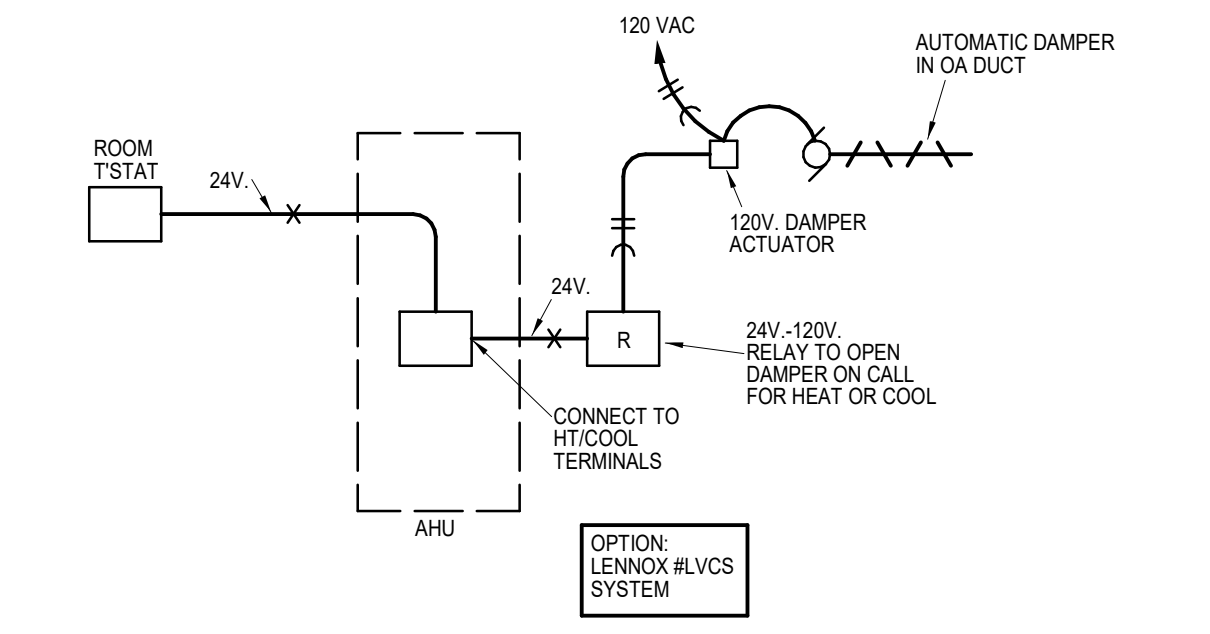
2 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



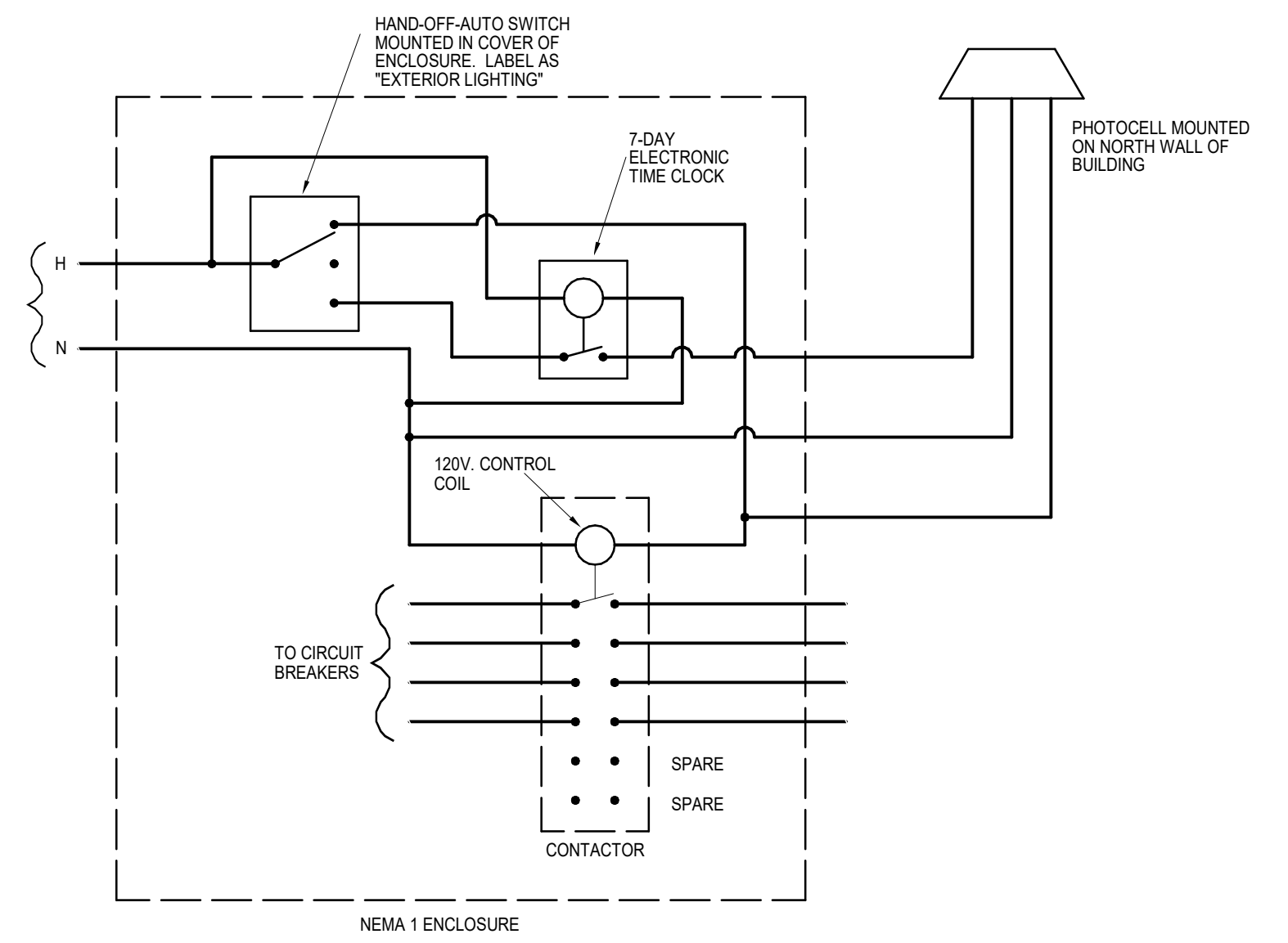
3 ELECTRICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



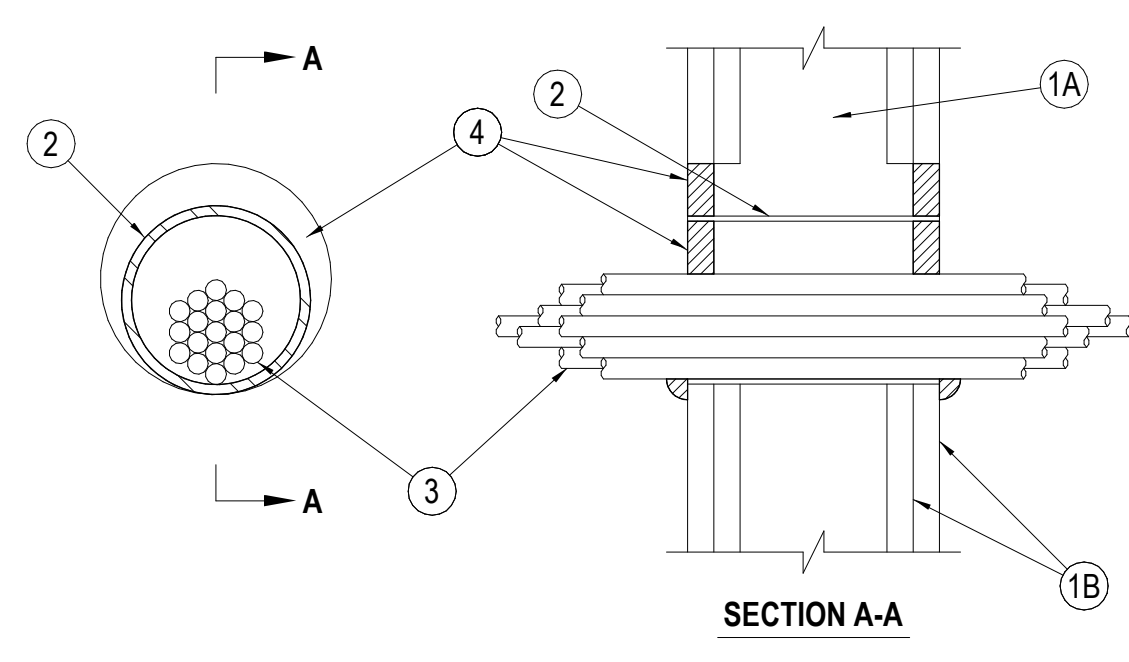
4 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



5 OUTSIDE AIR DAMPER CONTROL
NOT TO SCALE



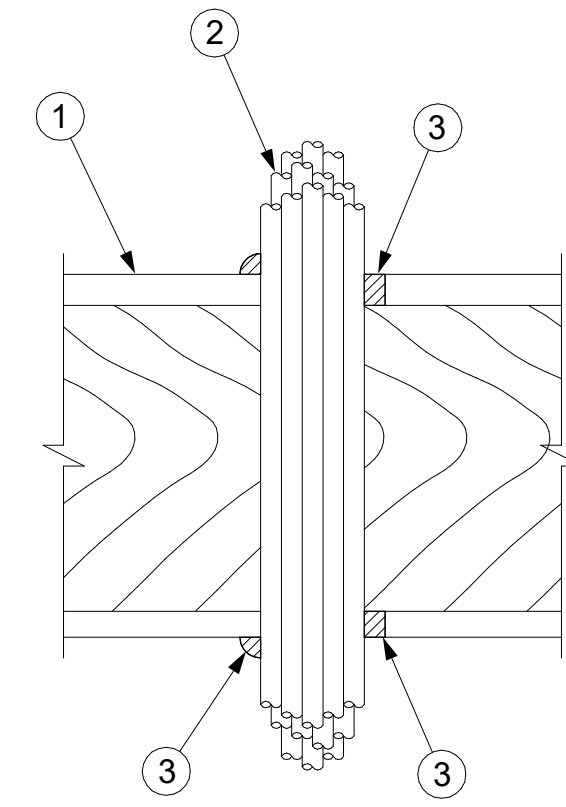
6 EXTERIOR LIGHTING CONTROL PANEL SCHEMATIC
NOT TO SCALE



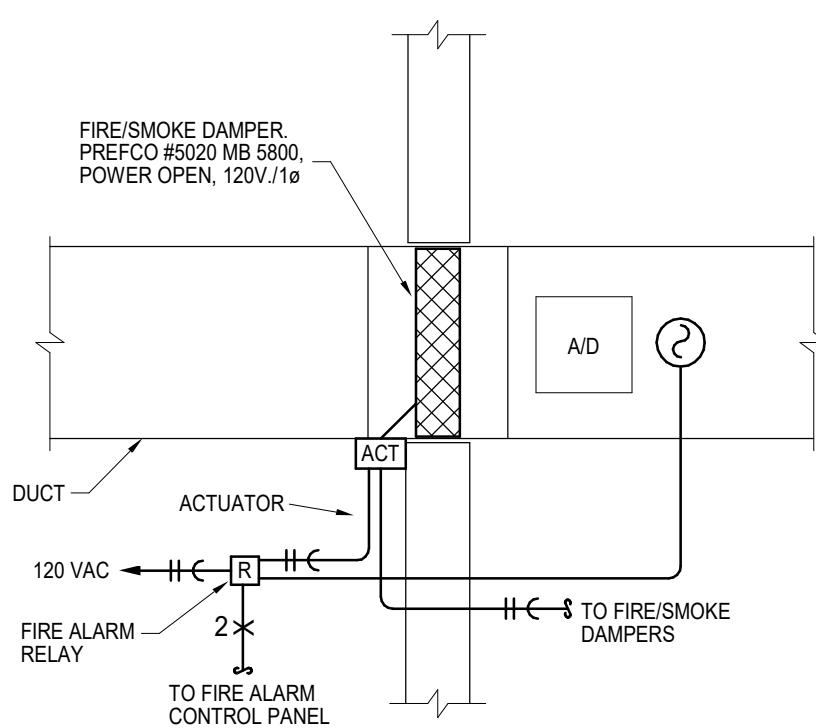
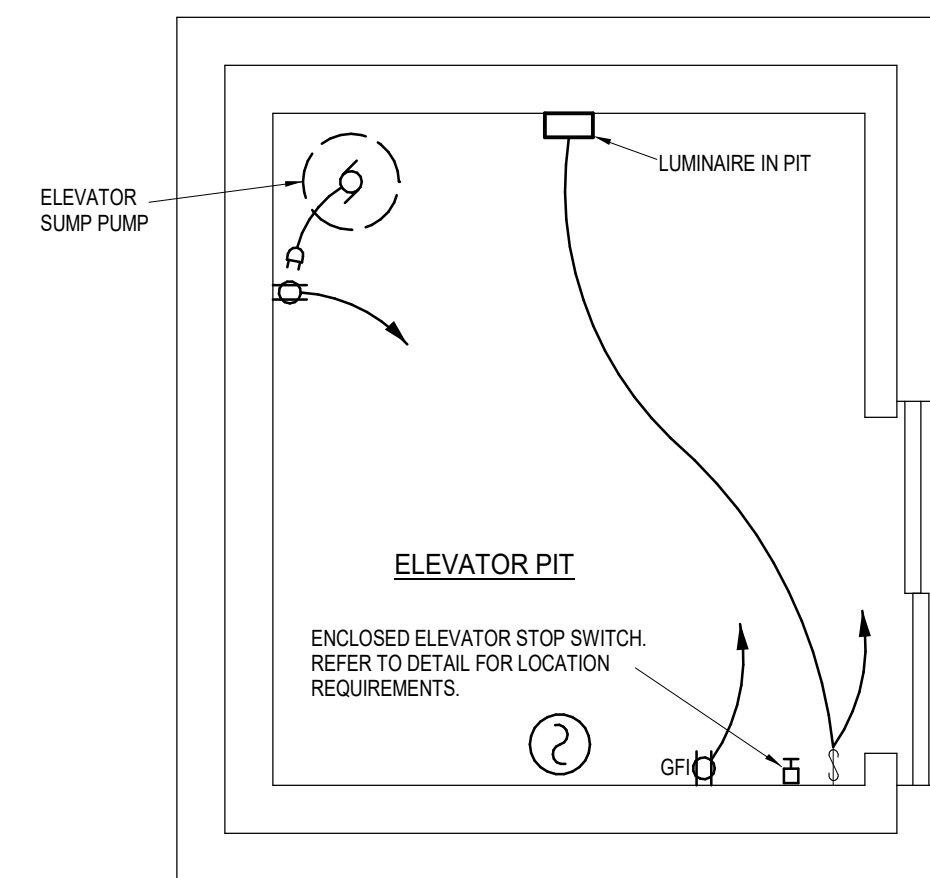
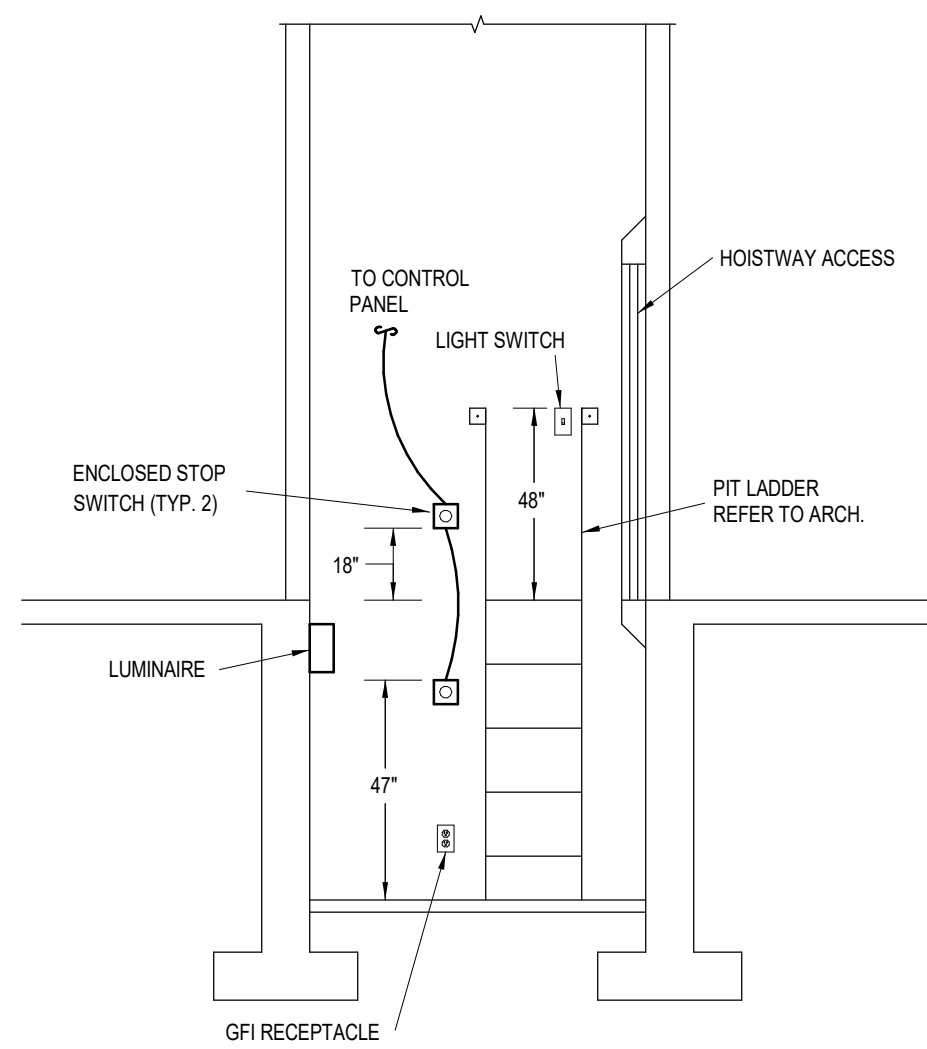
7 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM WL-3065

NOTES AND LEGENDS:
1. Wall Assembly — The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Stud Wall Framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
B. Gypsum Board — Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (139 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
Metallic Sleeve — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, N20-28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (467 mm) beyond the wall surface.
2. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
A. Max 7C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
B. Max 25 per No. 24 AWG telephone cable with PVC insulation and jacket.
C. Type RGU coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 1/8 in. (3 mm).
D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
E. Through Penetrating Products — Max three copper conductor No. 8 AWG, Metal-Clad Cables.
AFC CABLE SYSTEMS INC.
F. Max 3/C with ground (or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.
H. Fire Resistive Cables — Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
Through Penetrating Product — Any cables, Metal-Clad Cable or Armored Cable currently classified under the Through Penetrating Product (N/A/Y) category in the Fire Resistance Directory for names of manufacturers.
Fill, Void or Cavity Material — Sealant or Putty — Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating. An additional 1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP601S, CP606, FS-One Sealants or CP618 Putty
*Bearing the UL Classification Mark
*Bearing the UL Listing Mark

8 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM FC-3074



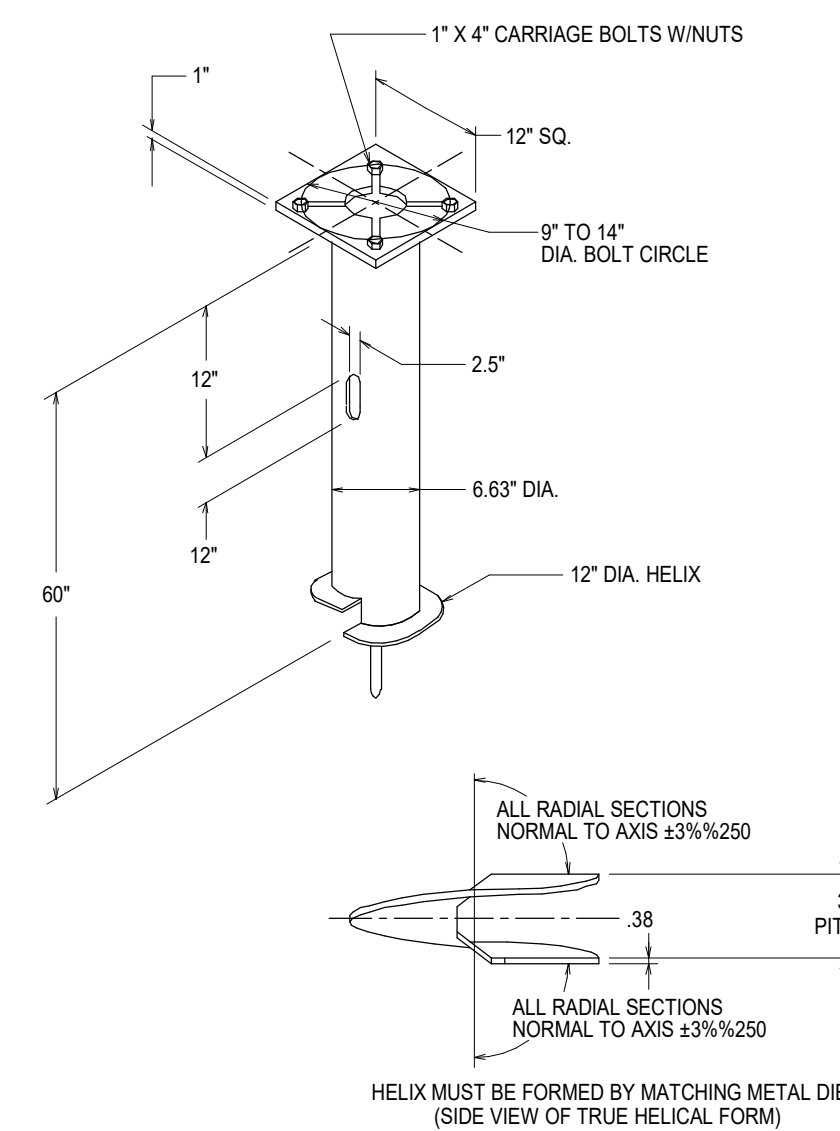
NOTES AND LEGENDS:
1. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Material as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 3 in.
B. Wood Joists — Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
C. Gypsum Board — Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or lurring channels as specified in the individual Floor-Ceiling Design.
Chase Wall — (Optional, Not Shown) — The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening out in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
1A. A. Studs - Nom 2 by 4 in., 2 by 6 in. or double nom 2 by 4 in. lumber studs.
B. Sole Plate - Nom 2 by 4 in., 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
C. Top Plate — The double top plate shall consist of two nom 2 by 4 in., two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
D. Gypsum Board — Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.
Cables — Aggregate cross-sectional area of cable in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. Cables to be rigidly supported on both sides of the floor-ceiling assembly. Any combination of the following types and sizes of copper conductor cables may be used:
A. Max 150 pair No. 24 AWG telephone cable with PVC insulation and jacket.
B. Max 2/C No. 10 with ground Type NM nonmetallic sheathed (Romex) cable with PVC insulation and jacket.
C. Max 3/C with ground 20 AWG aluminum SER cable with PVC insulation and jacket.
D. Max 3/C No. 10 AWG copper conductor steel clad cable.
E. Max 24 fiber optic cable.
F. RG 59U coaxial cable.
G. CAT 5 data cable.
Fill, Void or Cavity Material — Sealant — Min 3/4 in. thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. thickness of sealant applied within the annulus flush with the bottom surface of gypsum board or lower top plate. A min 1/2 in. diameter bead of sealant applied at the cable bundle/subfloor or sole plate interface and the cable bundle/gypsum board or top plate interface at point contact locations.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP 606 Flexible Firestop Sealant
*Bearing the UL Classification Mark



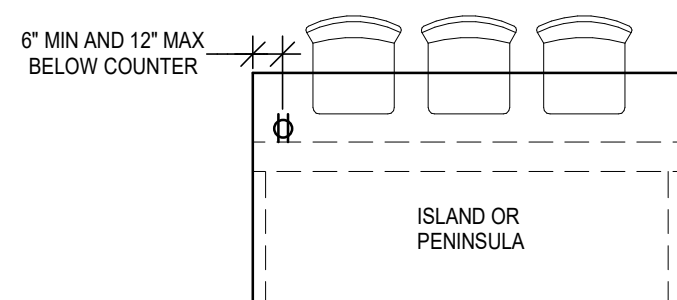
2 ELEVATOR PIT DETAIL

3 ELEVATOR PIT ELECTRICAL DETAIL

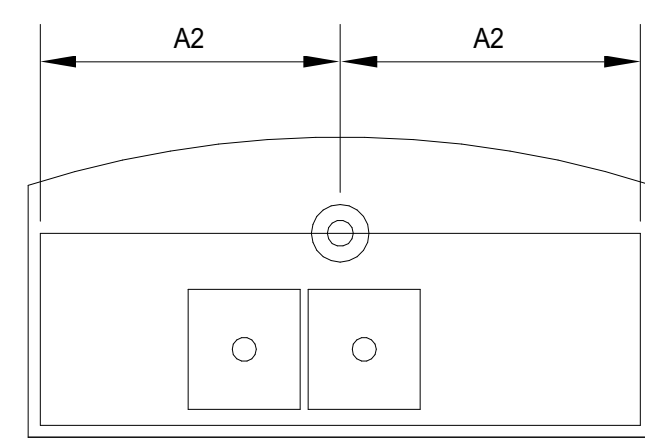
4 FIRE/SMOKE DAMPER DETAIL-ELEC
NOT TO SCALE



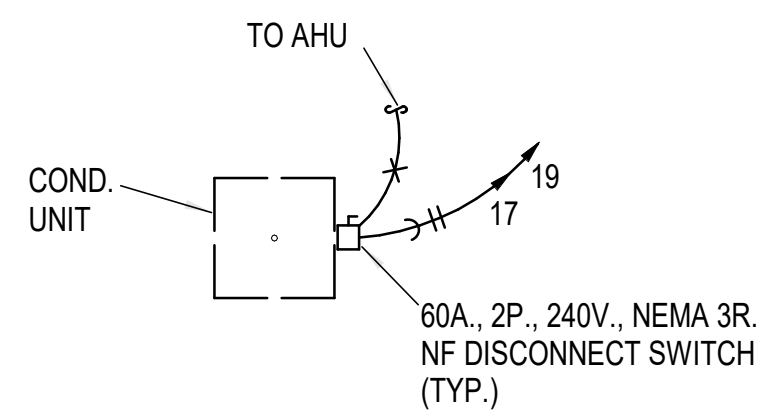
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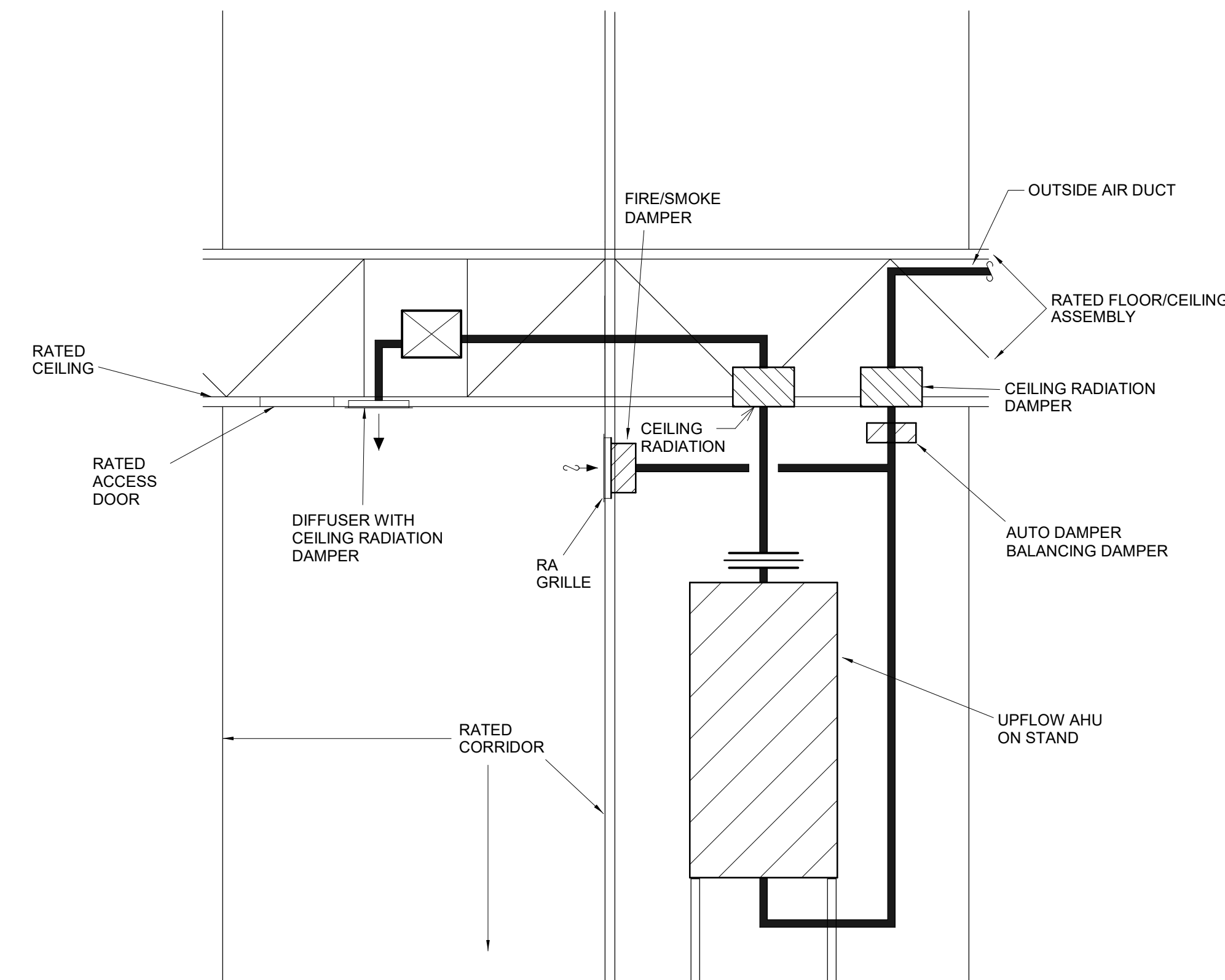
6 ISLAND RECEPTACLE DETAIL



7 KITCHEN ISLAND LIGHTING DETAIL



8 TYPICAL COND. UNIT DETAIL



5 MECHANICAL CLOSET DETAIL - ELEC
NOT TO SCALE

10 CORRIDOR AHU DETAIL - WALL RETURN (E)
NOT TO SCALE

Panel: HA

Location: Meter Bank - A

Supply From: METER BANK - A

Mounting: RECESSED

Enclosure:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22000

Mains Type: MB

Mains Rating: 400 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT		
1	Receptacle Space 458	20 A	12	720	835		12	20 A	Receptacle ACC...	2		
3	Lighting	20 A	12		372	40	12	20 A	Lighting ELEV A 688	4		
5	Other JANITOR 365	20 A	12			1200	549	12	20 A	Lighting	6	
7	Lighting	20 A	12	0	1500			12	20 A	EUH-A	8	
9	Receptacle Space 458	20 A	12		720	1500		12	20 A	EUH-A	10	
11	Lighting	20 A	12			249	3224	8	40 A	AHU-HA1	12	
13		20 A	12	1500	3224			8	40 A	AHU-HA1	14	
15	EUH-A	20 A	12		1500	2800		8	35 A	EUH-B	16	
17	FACP (HLO)	20 A	12			500	2800	12	20 A	Receptacle ELEV LOBBY-1...	18	
19	Lighting	20 A	12	863	180			12	20 A	Receptacle ELEV LOBBY-1...	20	
21	Receptacle ELEV LOBBY-1...	20 A	12		180	720		12	20 A	Receptacle PRIVATE...	22	
23	Receptacle PRIVATE...	20 A	12			720	720	12	20 A	Receptacle PRIVATE...	24	
25	Lighting	20 A	12	261	400			12	20 A	Receptacle TENANT...	26	
27	Receptacle TENANT...	20 A	12		400	720		12	20 A	Receptacle Space 458	28	
29	Lighting	20 A	12			549	1500	12	20 A	EUH-A	30	
31	Lighting	20 A	12	147	1500			12	20 A	Lighting	32	
33		40 A	8		3224	147	3224	8	40 A	AHU-HA3	34	
35	AHU-HA2	20 A	12	147	3224			8	40 A	AHU-HA3	36	
37	Lighting	20 A	12	147	3224			8	40 A	AHU-HA4	38	
39	DSS-STAIR	25 A	10		1613	3224		8	40 A	AHU-HA4	40	
41		20 A	12	180	40			12	20 A	Other ELEV A 695	42	
43	Receptacle ELEV A 692	20 A	12				1613	3224	12	20 A	Other ELEV A 695	44
45	ELEVATOR (SHUNT TRIP)	90 A	3		4900	500		10	25 A	DSS-STAIR	46	
47	VERIFY	20 A	12		4900	1613		10	25 A	DSS-STAIR	48	
49		20 A	12			720	720	12	20 A	Receptacle PRIVATE...	50	
51	Receptacle Space 2254	20 A	12				400				52	
53	Receptacle	20 A	12								54	
		Total Load:		26609 VA	29344 VA	33851 VA						
		Total Amps:		222 A	248 A	286 A						
Legend:												
Load Classification		Connected Load	Demand Factor	Estimated...	Panel Totals							
HVAC		46962 VA	100.00%	46962 VA	Total Conn. Load: 89304 VA							
Lighting		1900 VA	100.00%	1900 VA	Total Est. Demand: 82340 VA							
Other		1700 VA	100.00%	1700 VA	Total Conn.: 248 A							
Power		6600 VA	100.00%	6600 VA	Total Est. Demand: 229 A							
Receptacle		10020 VA	99.90%	10010 VA								
Motor		14700 VA	100.00%	14700 VA								
HVAC Load		0 VA	0.00%	0 VA								
HVAC - CU - NON CONGRUENT		7488 VA	1.00%	75 VA								
Notes:												

Panel: HA										Location: Meter Bank - A										Volts: 120/208 Wye										A.I.C. Rating: 22000									
										Phases: 3										Mains Type: MB										Mains Rating: 400 A									
Supply From: METER BANK - A										Wires: 4										MCB Rating:																			
Mounting: Enclosure:																																							
Notes:																																							
CKT	Circuit Description		Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description		CKT																								
55	CU-HA3		15 A	12	936	936		936	936		12	15 A	CU-HA4		56																								
57															58																								
59	CU-HA1		15 A	12				936	936		12	15 A	CU-HA2		60																								
61					936	936									62																								
63	Spare		20 A	--			0	200			10	20 A	SITE LIGHTING (BLDG 1...		64																								
65	Spare		20 A	--						0	30	10	MONUMENT SIGN		66																								
67	Spare		20 A	--		0	0					20 A	120/208V-1PH - GARAGE		68																								
69	Spare		20 A	--			0	0				20 A	PANEL, 120 V/208 V, Single...		70																								
71	Spare		20 A	--					0	0		20 A	120/208V-1PH - GARAGE		72																								
73	Spare		20 A	--		0	0					20 A	PANEL, 120 V/208 V, Single...		74																								
75	Spare		20 A	--			0	1650				20 A	Power		76																								
77	Spare		20 A	--					0	1650		20 A			78																								
79	Spare		20 A	--	0	1650						20 A	Power		80																								
81	Spare		20 A	--			0	1650				20 A			82																								
83	Spare		20 A	--					0	100		20 A	Lighting		84																								
85	Spare		20 A	--		0									86																								
87	Spare		20 A	--			0								88																								
89	Spare		20 A	--					0						90																								
91	Spare		20 A	--		0									92																								
93	Spare		20 A	--			0								94																								
95	Spare		20 A	--					0						96																								
Total Load:					5394 VA		5372 VA		3651 VA																														
Total Amps:					47 A		47 A		30 A																														
Legend:																																							
Load Classification					Connected Load		Demand Factor		Estimated...		Panel Totals																												
Lighting					329 VA		125.00%		411 VA		Total Conn. Load: 14417 VA																												
Power					6600 VA		100.00%		6600 VA		Total Est. Demand: 7086 VA																												
HVAC - CU - NON CONGRUENT					7488 VA		1.00%		75 VA		Total Conn.: 40 A																												
											Total Est. Demand: 20 A																												
Notes:																																							

Unit Load Calculation - Complete Analysis																									
Unit Type	General															NEC 220-64 Calculation									
	General Load															Heater Calculation			General Load Calculation				Load for Unit Service (AMPS)	Total Connected Load	Breaker Size
																NEC Diversification			Remainder at 40%						
	Sq. Ft.	Area Calculation Load per Sq Ft	Total Per Sq Ft	2 Small Appliances Circuits	Dishwasher	Disposer	Dryer	Microwave	Range	Oven	Combined Oven Range	Washer	Water Heater	Total General Load	Heater	NEC Diversification	Heater Load	First 10KVA at 100%	Remainder at 40%	Total Load	Voltage				
A3	670	3 VA	2010 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25000 VA	5600 VA	65.00%	3640 VA	10000 VA	6000 VA	19640 VA	208 V	94.42	30600 VA	100	
A5	730	3 VA	2190 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25180 VA	5600 VA	65.00%	3640 VA	10000 VA	6072 VA	19712 VA	208 V	94.77	30780 VA	100	
A6	730	3 VA	2190 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25180 VA	5600 VA	65.00%	3640 VA	10000 VA	6072 VA	19712 VA	208 V	94.77	30780 VA	100	
A6-ALT	730	3 VA	2190 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25099 VA	5600 VA	65.00%	3640 VA	10000 VA	6040 VA	19680 VA	208 V	94.61	30690 VA	100	
A7	696	3 VA	2088 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25078 VA	5600 VA	65.00%	3640 VA	10000 VA	6031 VA	19671 VA	208 V	94.57	30678 VA	100	
A9	787	3 VA	2381 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	25381 VA	5600 VA	65.00%	3640 VA	10000 VA	6140 VA	19780 VA	208 V	95.10	30951 VA	100	
B3A	1055	3 VA	3165 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	28155 VA	5600 VA	65.00%	3640 VA	10000 VA	6462 VA	20102 VA	208 V	96.64	31755 VA	100	
B3B	1020	3 VA	3060 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	28050 VA	5600 VA	65.00%	3640 VA	10000 VA	6420 VA	20060 VA	208 V	96.44	31650 VA	100	
B6	1116	3 VA	3348 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	28338 VA	5600 VA	65.00%	3640 VA	10000 VA	6535 VA	20175 VA	208 V	97.00	31938 VA	100	
B9	1172	3 VA	3516 VA	3000 VA	740 VA	850 VA	4400 VA	1000 VA	0 VA	0 VA	7000 VA	1500 VA	4500 VA	28506 VA	5600 VA	65.00%	3640 VA	10000 VA	6602 VA	21477 VA	208 V	103.26	34006 VA	110	

MULTI-FAMILY BUILDING LOAD ANALYSIS BUILDING A									
Panel	Total Units	Total Connected Load	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps	
Unit Type (Connected Load)	Unit Quantity	Sum of Units							
METER BANK A	31	979,950 VA	980	31%	304	844	225	1069	
A3-(30,600 VA)	6	183600 VA							
A6-(30,780 VA)	7	215460 VA							
A6-A-(30,780 VA)	1	30780 VA							
A7-(30,678 VA)	3	92034 VA							
B3A-(31,725 VA)	8	254640 VA							
B9-(34,006 VA)	6	204036 VA							

FEEDER SCHEDULE - ALUMINUM AA8000						
MARK	OCF	SETS	COND.	SIZE	SIZE GRD	CONDUIT
0		1	1		3/0 CU	
1	1200 A	4	4	500 KCMIL		3
2	1000 A	3	4	600 KCMIL		4
3	800 A	3	4	400 KCMIL		3
4	400 A	2	4	#4/0	#1	2

Panel: HB

Location: Supply From: METER BANK - B2

Mounting: Enclosure:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22000

Mains Type: MB

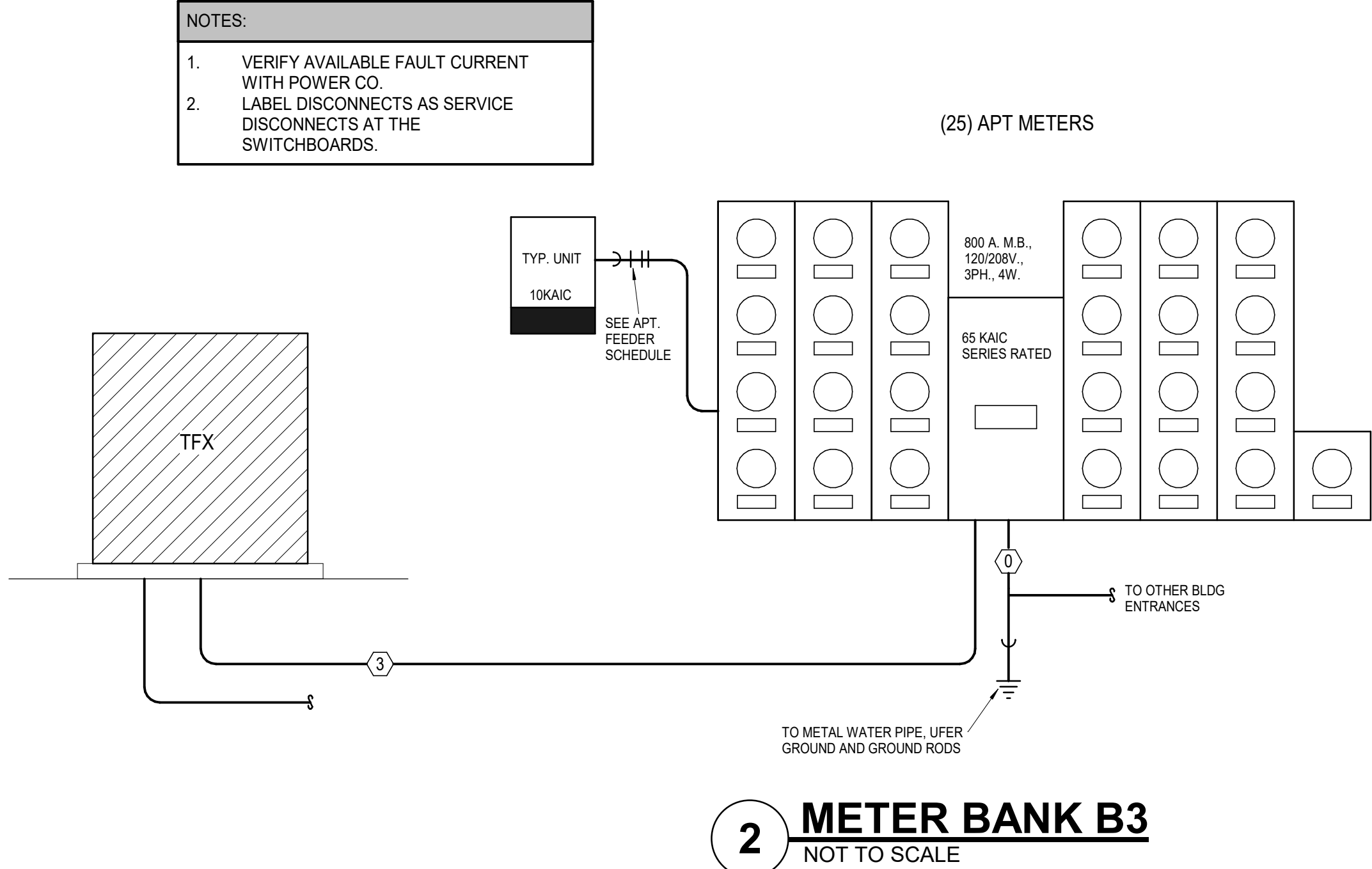
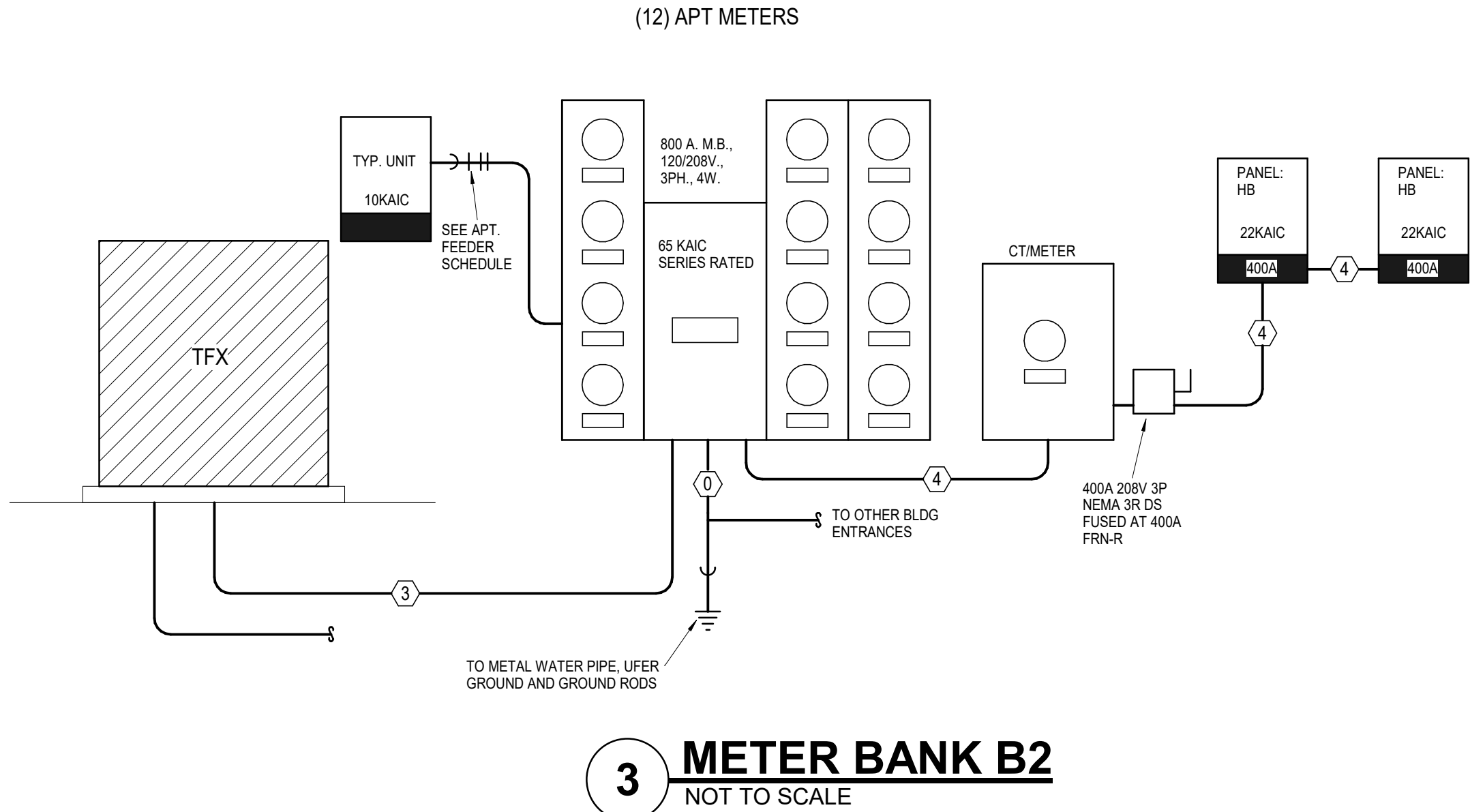
Mains Rating: 400 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT			
1	Lighting	20 A	12	370	720		12	20 A	Receptacle CORRIDOR 696	2			
3	Receptacle ACC...	20 A	12		720	1500		12	20 A	EUH-A	4		
5	Receptacle PRIVATE...	20 A	12			720	1500		12	20 A	EUH-B	6	
7	Lighting	20 A	12	0	720			12	20 A	Receptacle PRIVATE...	8		
9	Lighting	20 A	12		261	402		12	20 A	Lighting	10		
11	Receptacle CORRIDOR 696	20 A	12			720	500	12	20 A	FACP (HLO)	12		
13	EUH-A	20 A	12	1500	2800			8	35 A	EUH-B	14		
15					1500	2800					16		
17	Lighting	20 A	12				563	180	12	20 A	Receptacle ELEV B-1 453-1	18	
19	Receptacle ELEV B-1 453-1	20 A	12	180	4160				6	50 A	AHU-HB1	20	
21	Receptacle PRIVATE...	20 A	12		360	4160						22	
23	Receptacle CORRIDOR 696	20 A	12				720	308	12	20 A	Lighting	24	
25	Receptacle TENANT...	20 A	12	400	400				12	20 A	Receptacle TENANT...	26	
27	Receptacle CORRIDOR 714	20 A	12			720	360		12	20 A	Receptacle PRIVATE...	28	
29	Receptacle PRIVATE...	20 A	12				720	720	12	20 A	Receptacle PRIVATE...	30	
31	Receptacle PRIVATE...	20 A	12	720	720				12	20 A	Receptacle CORRIDOR 714	32	
33	Lighting	20 A	12		549	1500			12	20 A	EUH-A	34	
35	AHU-HB3	40 A	8		3224	60			12	20 A	Lighting	36	
37				3224	60				12	20 A	Lighting	38	
39	Lighting	20 A	12		222	120			12	20 A	Lighting	40	
41	AHU-HB4	40 A	8			3224	222		12	20 A	Lighting	42	
43				3224	400				12	20 A	Receptacle	44	
45	Receptacle	20 A	12		400	60			12	20 A	Lighting	46	
47	Lighting	20 A	12				120	4900				48	
49	Lighting	20 A	12	222	4900				4	90 A	ELEVATOR MOTOR (SHUNT TRIP) VERIFY	50	
51	DSS-STAIR	25 A	10		1613	4900						52	
53						1613	500		12	20 A	Other	54	
Total Load:				32610 VA	30098 VA	26125 VA							
Total Amps:				277 A	256 A	218 A							
Legend:													
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals						
HVAC				48714 VA	100.00%	48714 VA							
Lighting				2565 VA	125.00%	3206 VA	Total Conn. Load: 88333 VA						
Other				500 VA	100.00%	500 VA	Total Est. Demand: 79000 VA						
Power				0 VA	0.00%	0 VA	Total Conn.: 245 A						
Receptacle				13840 VA	86.13%	11920 VA	Total Est. Demand: 219 A						
Motor				14700 VA	100.00%	14700 VA							
HVAC Load				0 VA	0.00%	0 VA							
HVAC - CU - NON CONGRUENT				8112 VA	1.00%	81 VA							
Notes:													

Panel: HB													
Location:				Volts: 120/208 Wye				A.I.C. Rating: 22000					
Supply From: METER BANK - B2				Phases: 3				Mains Type: MB					
Mounting: RECESSED				Wires: 4				Mains Rating: 400 A					
Enclosure:				MCB Rating:									
Notes:													
CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
55	AHU-HB5	40 A	8	3224	180					12	20 A	Receptacle ELEV B 708	56
57						3224	40			12	20 A	Lighting ELEV B 711	58
59	Lighting	20 A	12					60	120	12	20 A	Lighting	60
61	DSS-STAIR	25 A	10	1613	720					12	20 A	Receptacle Space 2372	62
63						1613	1248			10	25 A	CU-HB1	64
65	CU-HB2	15 A	10		936	936		936	1248	10	15 A	CU-HB3	66
67							936	936		10	15 A		68
69	CU-HB4	15 A	10							10	20 A	Receptacle Space 2379	70
71								936	900	12	20 A		72
73	Spare	20 A	--	0	300					10	20 A	SITE LIGHTING	74
75	Spare	20 A	--			0							76
77	Spare	20 A	--					0					78
79	Spare	20 A	--	0									80
81	Spare	20 A	--			0							82
83	Spare	20 A	--					0					84
85	Spare	20 A	--	0									86
87	Spare	20 A	--			0							88
89	Spare	20 A	--					0					90
91	Spare	20 A	--	0									92
93	Spare	20 A	--			0							94
95	Spare	20 A	--					0					96
Total Load:				7909 VA		7995 VA		4191 VA					
Total Amps:				71 A		71 A		35 A					
Legend:													
Load Classification				Connected Load		Demand Factor		Estimated....		Panel Totals			
HVAC				9673 VA		100.00%		9673 VA					
Lighting				514 VA		125.00%		642 VA		Total Conn. Load: 20094 VA			
Other				0 VA		0.00%		0 VA		Total Est. Demand: 12191 VA			
Power				0 VA		0.00%		0 VA		Total Conn.: 56 A			
Receptacle				1800 VA		100.00%		1800 VA		Total Est. Demand: 34 A			
HVAC Load				0 VA		0.00%		0 VA					
HVAC - CU - NON CONGRUENT				8112 VA		1.00%		81 VA					
Notes:													



MULTI-FAMILY BUILDING LOAD ANALYSIS BUILDING B									
Panel	Total Units	Total Connected Load	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps	
	Unit Type (Connected Load)	Unit Quantity	Sum of Units						
METER BANK B1									
A6-(20,780 VA)		32	1,005,070 VA	1005	31%	312	865	0	865
A6-A-(30,780 VA)		5	153900 VA						
A6-ALT-(30,699 VA)		1	30780 VA						
A6-ALT-(30,699 VA)		7	214893 VA						
A6-(30,651 VA)		8	247608 VA						
B3A-(31,725 VA)		3	95205 VA						
B3B-(31,650 VA)		4	128600 VA						
B9-(34,006 VA)		4	136024 VA						
METER BANK B2									
A6-ALT-(30,699 VA)		12	381,616 VA	382	41%	156	435	225	660
A6-ALT-(30,699 VA)		8	245592 VA						
B9-(34,006 VA)		4	136024 VA						
METER BANK B3									
A3-(20,600 VA)		25	768,161 VA	768	35%	276	766	0	766
A3-(20,600 VA)		10	306000 VA						
A6-(30,780 VA)		4	123120 VA						
B3A-(31,725 VA)		3	95205 VA						
B6-(31,938 VA)		4	127752 VA						
B9-(34,006 VA)		4	136024 VA						

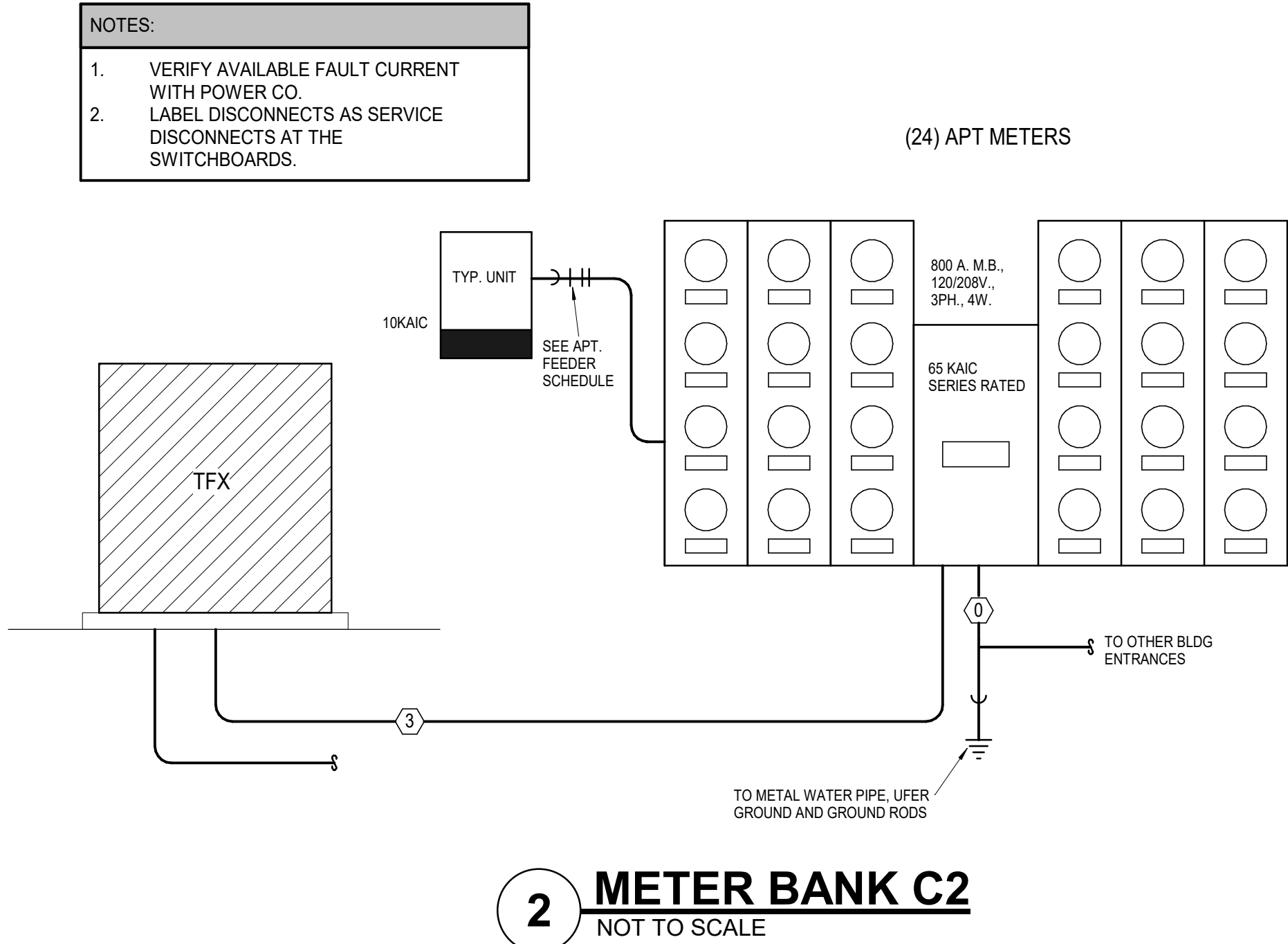
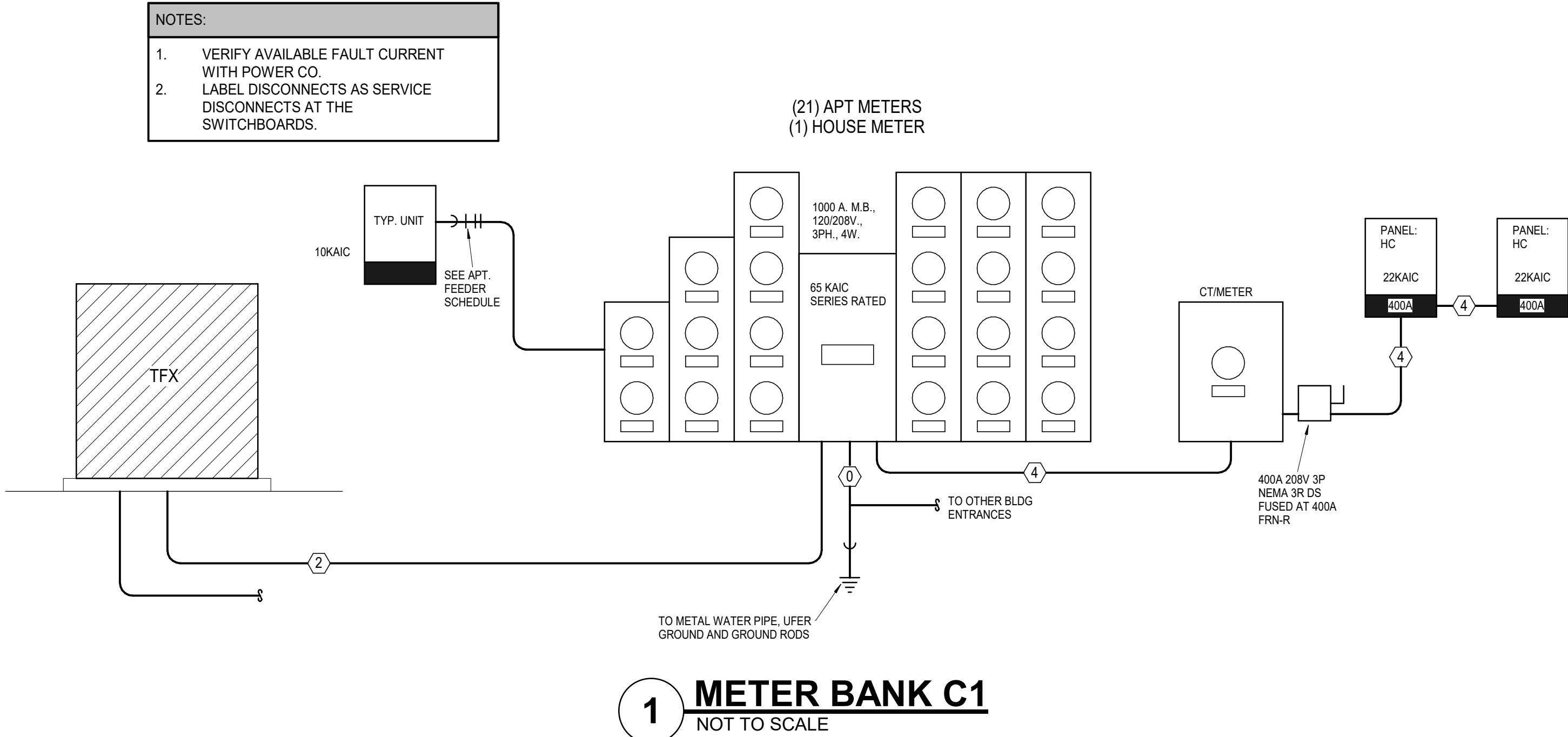
FEEDER SCHEDULE ALUMINUM AA8000						
MARK	OCF	SETS	COND.	SIZE	SIZE GRD	CONDUIT
0		1	1		3/0 CU	
1	1200 A	4	4	500 KCMIL		3
2	1000 A	3	4	600 KCMIL		4
3	800 A	3	4	400 KCMIL		3
4	400 A	2	4	#4/0	#1	2



Panel: HC												
Location:					Volts: 120/208 Wye					A.I.C. Rating: 22000		
Supply From: METER BANK - C1					Phases: 3					Mains Type: MB		
Mounting:					Wires: 4					Mains Rating: 400 A		
Enclosure:										MCB Rating:		
Notes:												
CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT		
1	Receptacle ACC...	20 A	12	540	720		12	20 A	Receptacle PRIVATE...	2		
3	Receptacle CORRIDOR 681	20 A	12		720	720		12	20 A	Receptacle PRIVATE...	4	
5	Lighting	20 A	12				332	492	12	20 A	Lighting	6
7	Lighting	20 A	12	549	0				12	20 A	Lighting	8
9	Lighting ELEV C 679	20 A	12		40	180			12	20 A	Receptacle ELEV LOBBY-1...	10
11	Receptacle ELEV LOBBY-1...	20 A	12				180	500	12	20 A	FACP (HLO)	12
13	Other JANITOR 465	20 A	12	1200	863				12	20 A	Lighting	14
15	EUH-A	20 A	12		1500	720			12	20 A	Receptacle CORRIDOR 681	16
17	Receptacle PRIVATE...	20 A	12	720	720		1500	540	12	20 A	Receptacle PRIVATE...	18
19	Receptacle PRIVATE...	20 A	12						12	20 A	Receptacle PRIVATE...	20
21	Receptacle PRIVATE...	20 A	12		720	549			12	20 A	Lighting	22
23	EUH-A	20 A	12			1500	720		12	20 A	Receptacle CORRIDOR 681	24
25	EUH-B	35 A	8	1500	3224				8	40 A	AHU-HC1	26
27	Receptacle IT 557	20 A	12	400	3224		2800	400	12	20 A	Receptacle IT 557	28
29	Lighting	20 A	12		207	3224			8	40 A	AHU-HC2	30
31	Lighting	20 A	12				207	3224	8	40 A	AHU-HC3	32
33	AHU-HC4	40 A	8	3224	3224				8	40 A	AHU-HC3	34
35	Lighting	20 A	12			3224	1613		10	25 A	DSS-STAIR	36
37	Lighting	20 A	12				207	1613	10	25 A	DSS-STAIR	38
39	Receptacle ELEV C-1 677-1	20 A	12	180	40	4900	500		12	20 A	Lighting ELEV C-2 677-2	40
41	ELEVATOR (SHUNT TRIP) VERIFY	90 A	4	4900	1613		4900	1613	12	20 A	Other	42
43	Receptacle Space 2473	20 A	12		1080	1500			10	25 A	DSS-STAIR	44
45								1500	12	20 A	EUH-A	46
47												48
49												50
51												52
53												54
Total Load:				36379 VA	36327 VA	31102 VA						
Total Amps:				310 A	309 A	259 A						
Legend:												
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals					
HVAC				46962 VA	100.00%	46962 VA						
Lighting				2147 VA	125.00%	2683 VA	Total Conn. Load: 103306 VA					
Other				1700 VA	100.00%	1700 VA	Total Est. Demand: 95973 VA					
Power				19500 VA	100.00%	19500 VA	Total Conn.: 287 A					
Receptacle				10660 VA	95.96%	10440 VA	Total Est. Demand: 266 A					
Motor				14700 VA	100.00%	14700 VA						
HVAC Load				0 VA	0.00%	0 VA						
HVAC - CU - NON CONGRUENT				7488 VA	1.00%	75 VA						
Notes:												

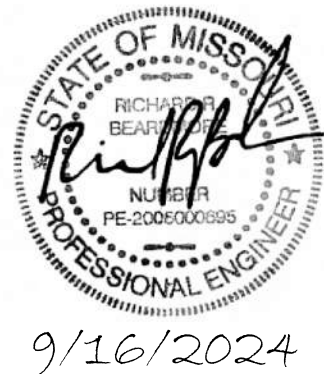
Panel: HC													
Location:				Volts: 120/208 Wye				A.I.C. Rating: 22000					
Supply From: METER BANK - C1				Phases: 3				Mains Type: MB					
Mounting:				Wires: 4				Mains Rating: 400 A					
Enclosure:								MCB Rating:					
Notes:													
CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
55	CU-HC4	15 A	12	936	936		936	936		12	15 A	CU-HC3	56
57													58
59	CU-HC2	15 A	12	936	936			936	936	10	15 A	CU-HC1	60
61													62
63	Spare	20 A	--			0	5400						64
65	Spare	20 A	--	0	5400			0	5400	6	60 A	COMPACTOR (BLDG 2 ONLY)	66
67	Spare	20 A	--										68
69	Spare	20 A	--			0	1650						70
71	Spare	20 A	--					0	1650	8	40 A	EV CHARGER	72
73	Spare	20 A	--	0	400					10	20 A	SITE LIGHTING (BLDG 2...	74
75	Spare	20 A	--			0							76
77	Spare	20 A	--					0					78
79	Spare	20 A	--	0									80
81	Spare	20 A	--			0							82
83	Spare	20 A	--					0					84
85	Spare	20 A	--	0									86
87	Spare	20 A	--			0							88
89	Spare	20 A	--					0					90
91	Spare	20 A	--	0									92
93	Spare	20 A	--			0							94
95	Spare	20 A	--					0					96
		Total Load:		9544 VA		8922 VA		8922 VA					
		Total Amps:		80 A		74 A		74 A					
Legend:													
Load Classification				Connected Load		Demand Factor		Estimated...		Panel Totals			
Lighting				400 VA		125.00%		500 VA					
Power				19500 VA		100.00%		19500 VA		Total Conn. Load: 27388 VA			
HVAC - CU - NON CONGRUENT				7488 VA		1.00%		75 VA		Total Est. Demand: 20075 VA			
										Total Conn.: 76 A			
										Total Est. Demand: 56 A			
Notes:													

FEEDER SCHEDULE to ALUMINUM AA8000						
MARK	OCP	SETS	COND.	SIZE	SIZE GRD	CONDUIT
0		1	1		3/0 CU	
1	1200 A	4	4	500 KCMIL		3
2	1000 A	3	4	600 KCMIL		4
3	800 A	3	4	400 KCMIL		3
4	400 A	2	4	#4/0	#1	2



MULTI-FAMILY BUILDING LOAD ANALYSIS BUILDING C								
Panel	Total Units	Total Connected Load	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps
Unit Type (Connected Load)	Unit Quantity	Sum of Units						
METER BANK C1	21	662,146 VA	662	37%	245	681	270	951
A3-(30,600 VA)	7	214200 VA						
A5-(30,951 VA)	7	216657 VA						
B3A-(31,735 VA)	3	95265 VA						
B9-(34,006 VA)	4	136024 VA						
METER BANK C2	24	757,156 VA	757	35%	265	736	0	736
A6-(30,780 VA)	3	92340 VA						
A6-ALT-(30,699 VA)	7	214893 VA						
A7-(30,678 VA)	3	92024 VA						
B3A-(31,735 VA)	3	95265 VA						
B3B-(31,650 VA)	4	126600 VA						
B9-(34,006 VA)	4	136024 VA						



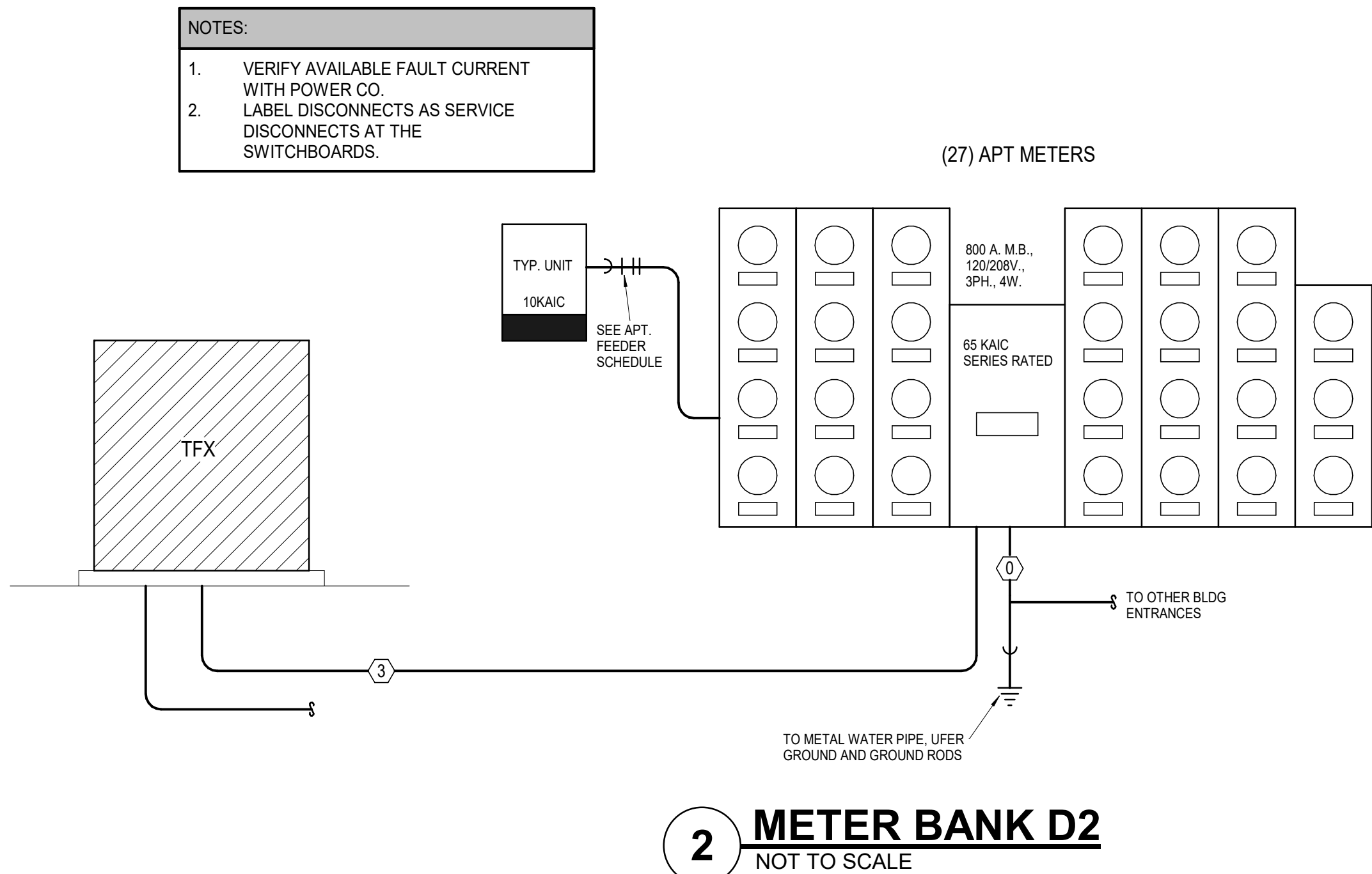
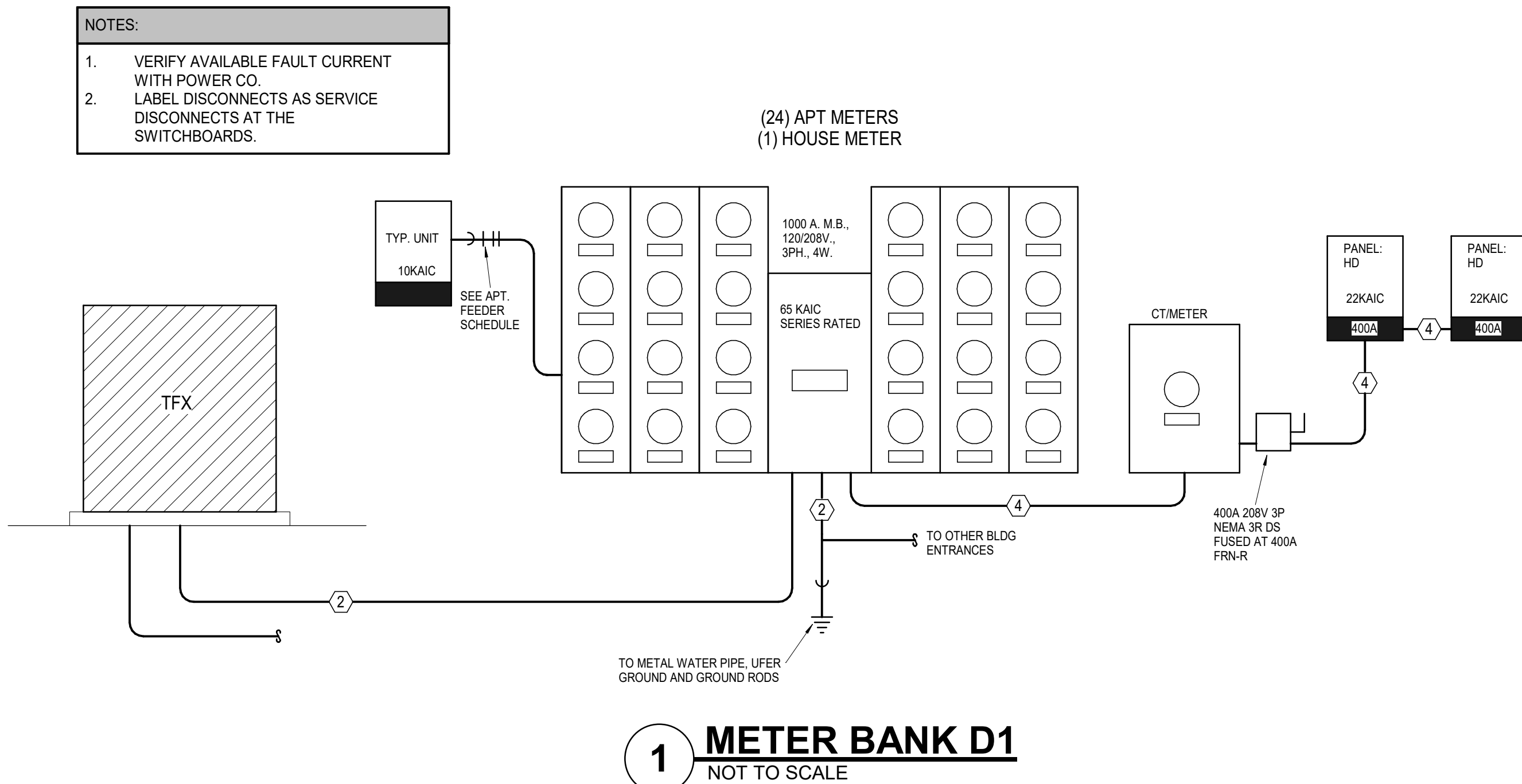


MULTI-FAMILY BUILDING LOAD ANALYSIS BUILDING D								
Panel	Total Units	Total Connected Load	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps
Unit Type (Connected Load)	Unit Quantity	Sum of Units						
METER BANK D1	24	757,703 VA	758	36%	265	737	250	987
A3-(30,600 VA)	8	244800 VA						
A6-(30,961 VA)	8	247608 VA						
B3A-(31,735 VA)	3	95205 VA						
B9-(34,008 VA)	5	170036 VA						
METER BANK D2	27	853,511 VA	854	34%	290	806	0	806
A6-(30,760 VA)	3	92340 VA						
A6-ALT-(30,699 VA)	8	246592 VA						
A7-(30,678 VA)	3	92034 VA						
B3A-(31,735 VA)	3	95205 VA						
B3B-(31,650 VA)	5	156250 VA						
B9-(34,008 VA)	5	170036 VA						

Panel: HD											
Location:				Volts: 120/208 Wye				A.I.C. Rating: 22000			
Supply From: METER BANK - D1				Phases: 3				Mains Type: MB			
Mounting: RECESSED				Wires: 4				Mains Rating: 400 A			
Enclosure:								MCB Rating:			
Notes:											
CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
1	Receptacle ELEV D 675	20 A	12	180	180		12	20 A	Receptacle ELEV D 675	2	
3	Lighting ELEV D 675	20 A	12		40	3224		40 A	AHU-HDB	4	
5	Lighting	20 A	12			207	3224	8		6	
7	Receptacle ACC.....	20 A	12	720	720		12	20 A	Receptacle CORRIDOR 676	8	
9	Lighting	20 A	12		261	720		12	20 A	Receptacle PRIVATE...	10
11	Receptacle PRIVATE...	20 A	12			720	1200	12	20 A	Other JANITOR 672	12
13	Lighting	20 A	12	863	500		12	20 A	Standard	14	
15	EUH-B	35 A	8		2800	0		12	20 A	Lighting	16
17						2800	1500	12	20 A	EUH-A	18
19	AHU-HD1	40 A	8	3224	1500			12	20 A		20
21					3224	1500		12	20 A	EUH-A	22
23	Receptacle CORRIDOR 676	20 A	12			720	1500	12	20 A		24
25	Lighting	20 A	12	492	720			12	20 A	Receptacle PRIVATE...	26
27	Receptacle PRIVATE...	20 A	12		720	720		12	20 A	Receptacle PRIVATE...	28
29	Receptacle PRIVATE...	20 A	12			720	720	12	20 A	Receptacle CORRIDOR 676	30
31	Lighting	20 A	12	135	135			12	20 A	Lighting	32
33	Lighting	20 A	12		207	3224		8	40 A	AHU-HD2	34
35						3224	3224	8	40 A		36
37	AHU-HD3	40 A	8	3224	207			12	20 A	Lighting	38
39					4900	500		12	20 A	Other	40
41	ELEVATOR (SHUNT TRIP) VERIFY	90 A	3			4900	3224	8	40 A	AHU-HD4	42
43				4900	3224			12	20 A		44
45	Lighting ELEV D 654	20 A	12		40	207		12	20 A	Lighting	46
47	Receptacle ELEV D 660	20 A	12			180	1613	10	25 A	DSS-STAIR	48
49	DSS-STAIR	25 A	10	1613	1613			12	20 A	Receptacle Space 2470	50
51					1613	1080					52
53											54
			Total Load:	27846 VA	29262 VA	33973 VA					
			Total Amps:	232 A	246 A	285 A					
Legend:											
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals				
HVAC				53410 VA	100.00%	53410 VA					
Lighting				1778 VA	125.00%	2223 VA	Total Conn. Load: 90581 VA				
Other				1700 VA	100.00%	1700 VA	Total Est. Demand: 91738 VA				
Power				0 VA	0.00%	0 VA	Total Conn.: 251 A				
Receptacle				9720 VA	100.00%	9720 VA	Total Est. Demand: 227 A				
Motor				14700 VA	100.00%	14700 VA					
HVAC Load				0 VA	0.00%	0 VA					
HVAC - CU - NON CONGRUENT				9360 VA	1.00%	94 VA					
Notes:											

Panel: HD													
Location:				Volts: 120/208 Wye				A.I.C. Rating: 22000					
Supply From: METER BANK - D1				Phases: 3				Mains Type: MB					
Mounting: RECESSED				Wires: 4				Mains Rating: 400 A					
Enclosure:								MCB Rating:					
Notes:													
CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
55	CU-HDB	15 A	12	936	936					12	15 A	CU-HD1	56
57						936	936						58
59	CU-HD2	15 A	12					936	936	12	15 A	CU-HD3	60
61				936	936								62
63	CU-HD4	15 A	12			936	1500						64
65								936	1500	12	20 A	EUH-A	66
67	Spare	20 A	--	0									68
69	Spare	20 A	--			0							70
71	Spare	20 A	--					0					72
73	Spare	20 A	--	0									74
75	Spare	20 A	--			0							76
77	Spare	20 A	--					0					78
79	Spare	20 A	--	0									80
81	Spare	20 A	--			0							82
83	Spare	20 A	--					0					84
85	Spare	20 A	--	0									86
87	Spare	20 A	--			0							88
89	Spare	20 A	--					0					90
91	Spare	20 A	--	0									92
93	Spare	20 A	--			0							94
95	Spare	20 A	--					0					96
Total Load:				3744 VA		4308 VA		4308 VA					
Total Amps:				31 A		37 A		37 A					
Legend:													
Load Classification				Connected Load		Demand Factor		Estimated...		Panel Totals			
HVAC				3000 VA		100.00%		3000 VA					
Power				0 VA		0.00%		0 VA		Total Conn. Load: 12360 VA			
HVAC - CU - NON CONGRUENT				9360 VA		1.00%		94 VA		Total Est. Demand: 3094 VA			
										Total Conn.: 34 A			
										Total Est. Demand: 9 A			
Notes:													

FEEDER SCHEDULE ALUMINUM AA8000						
MARK	OCP	SETS	COND.	SIZE	SIZE GRD	CONDUIT
0		1	1		3/0 CU	
1	1200 A	4	4	500 KCMIL		3
2	1000 A	3	4	600 KCMIL		4
3	800 A	3	4	400 KCMIL		3
4	400 A	2	4	#4/0	#1	2

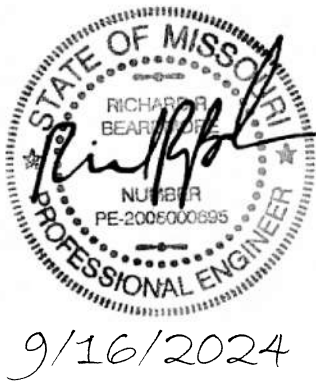


LUMINAIRE SCHEDULE							
MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
A	Disk Light	Halo	SLD612/8027/WH	jb/surface	white	1200 Lumen 2700K 15W LED	
A1	Unit Disk Light	RP Lighting	8556-90-90	jb/surface	CONFIRM	1000 Lumen 2700K 15W LED	Wet Location
B	Patio Sconce	Kichler	9234BK	wall	Black	1-10W LED	Wet Location
C	Shower Disk Light	Halo	SLD606/8027/WH	jb/surface	white	600 Lumen 2700K 10W LED	Wet Location
D	Vanity Sconce	Sunset Lighting	F2863-80-LED-JA8	wall	br. Nickel	1740 Lumen 24W LED	
E	Kitchen Pendant	Lightology	MKL542186	jb/surface		1-13W 3000K LED	
F	5-blade fan, 3-spdl, rev. w/globe	Westinghouse	72059 - 52"	surface	br. Nickel	2-8W LED	Energy Star Rated
H	Unit Entry Sconce	CONFIRM WITH OWNER					
J	Closet Light	Luminance	F7172-53-LED	jb/surface	CONFIRM	1500 Lumen 3000K 20W	
K	Exterior Sconce	Kichler	9234BK (CONFIRM WITH ARCH/OWNER)	wall	black	1-10W LED	Wet Location
L	Strip Light	Lithonia	CSS-L48-4000LM-MVOLT-40K-80CRI	surface	white	4000 Lumen 4000K LED	
L1	Strip Light	Lithonia	CSS-L48-4000LM-MVOLT-40K-80CRI	surface	white	4000 Lumen 4000K LED	With 2HR Battery
M	Vapor Tight Strip	Lithonia	CSV-T-L48-4000LM-MVOLT-35K-80CRI-IE7WCP	surface	white	4000 Lumen 3500K LED	
N	Surface Downlight	Satco	62-1312	jb/surface	white	1050 Lumen 3000k 15W	
X1	Exit	Progress	PETPE-UR-30-RC	surface	white/red	1.5W LED	
X2	Exit w/heads	Progress	PECUE-UR-30-RC	surface	white/red	1.5W LED	
X3	Dual-Head Emergency	NICOR	EML7	surface	std	700 lumen	
X4	Exterior Remote Head	Progress	PERHC-SG-OD-30	surface	std	1W LED	

ELECTRICAL PANEL SCHEDULE					
PANEL: A UNITS		POLES: 20		MOUNTING: FLUSH	
BUS: 125A	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE : 1 Ph 3 Wire	KAIC:10K	
CIRCUIT NUMBERS	DESCRIPTION	AMPS	POLES	QUANTITY	
1, 3	RANGE	40	2	1	
5, 7, 13, 15	WATER HEATER, DRYER	30	2	2	
9, 11	AHU	40	2	1	
17, 19	CONDENSING UNIT	15	2	1	
2	LIGHTS AND RECEPTACLES	20	1	1	
4-18 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	8	
20	SPARE	20	1	1	

ELECTRICAL PANEL SCHEDULE					
PANEL: B3, B6		POLES: 24		MOUNTING: FLUSH	
BUS: 125A	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE : 1 Ph 3 Wire	KAIC:10K	
CIRCUIT NUMBERS	DESCRIPTION	AMPS	POLES	QUANTITY	
1, 3	RANGE	40	2	1	
5, 7, 13, 15	WATER HEATER, DRYER	30	2	2	
9, 11	AHU	40	2	1	
17, 19	CONDENSING UNIT	15	2	1	
2, 22	LIGHTS AND RECEPTACLES	20	1	2	
4-20 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	9	
21	SPARE	20	1	3	

ELECTRICAL PANEL SCHEDULE					
PANEL: B3A, B9		POLES: 24		MOUNTING: FLUSH	
BUS: 125A	MAINS: MLO	VOLTAGE: 120/208	PHASE/WIRE : 1 Ph 3 Wire	KAIC:10K	
CIRCUIT NUMBERS	DESCRIPTION	AMPS	POLES	QUANTITY	
1, 3	RANGE	40	2	1	
5, 7, 13, 15	WATER HEATER, DRYER	30	2	2	
9, 11	AHU	50	2	1	
17, 19	CONDENSING UNIT	25	2	1	
2, 22	LIGHTS AND RECEPTACLES	20	1	2	
4-20 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	9	
21	SPARE	20	1	3	



- LEGEND:
- ① 24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
 - ② (3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE

nspj
ARCHITECTS

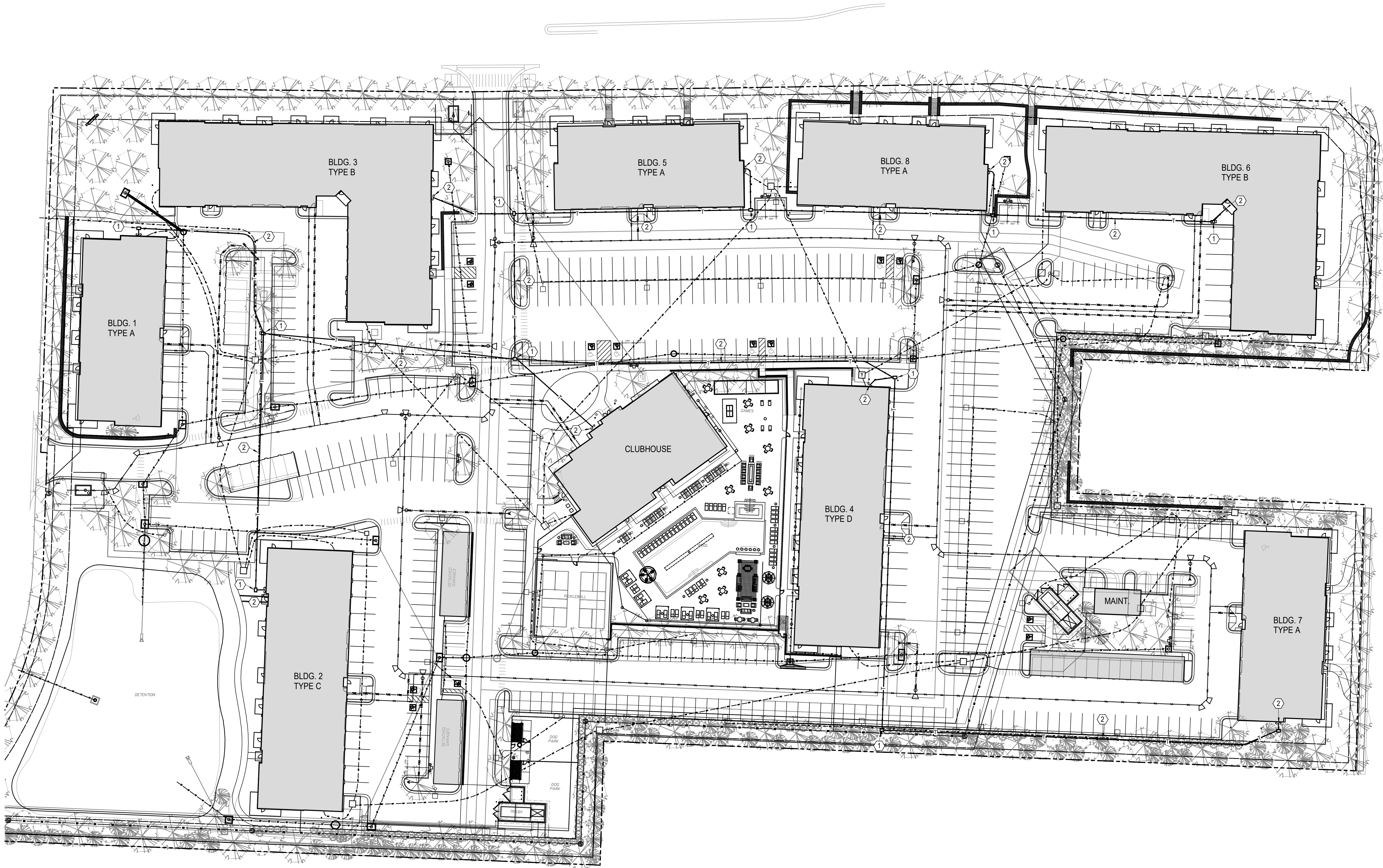
ARCHITECTURE
LANDSCAPE
ARCHITECTURE

P.913.831.1415
NSPJARCH.COM

9415 NALL AVE., #300
PRAIRIE VILLAGE,
KANSAS, 66207



9/16/2024



1 SITE PLAN
TELECOM
1" = 40'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

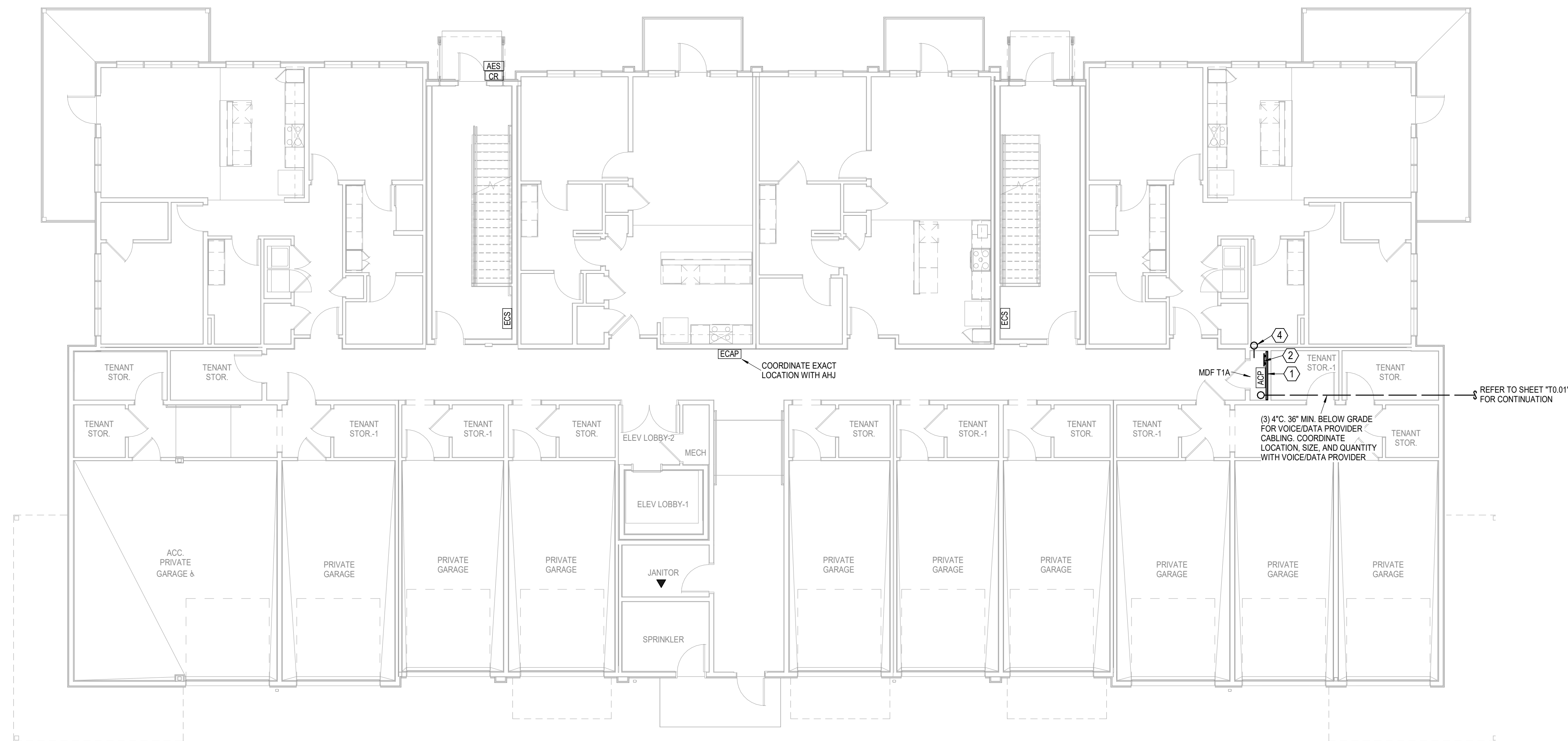
JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
TELECOM SITE PLAN

SHEET NO.

T0.01

LS&A
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3639 SW Summerfield Drive, Suite A
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Telephone: (765) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027



1 BUILDING A - 1ST FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
● 09.16.24 PERMIT SET

Δ REVISIONS

JOB NO. **720522** DATE **09.16.2024**
DRAWN BY **Author**
PERMIT SET

SHEET NAME
**BUILDING A - FIRST FLOOR
PLAN - TELECOM**
SHEET NO.

T1.11

LS&A
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2440427

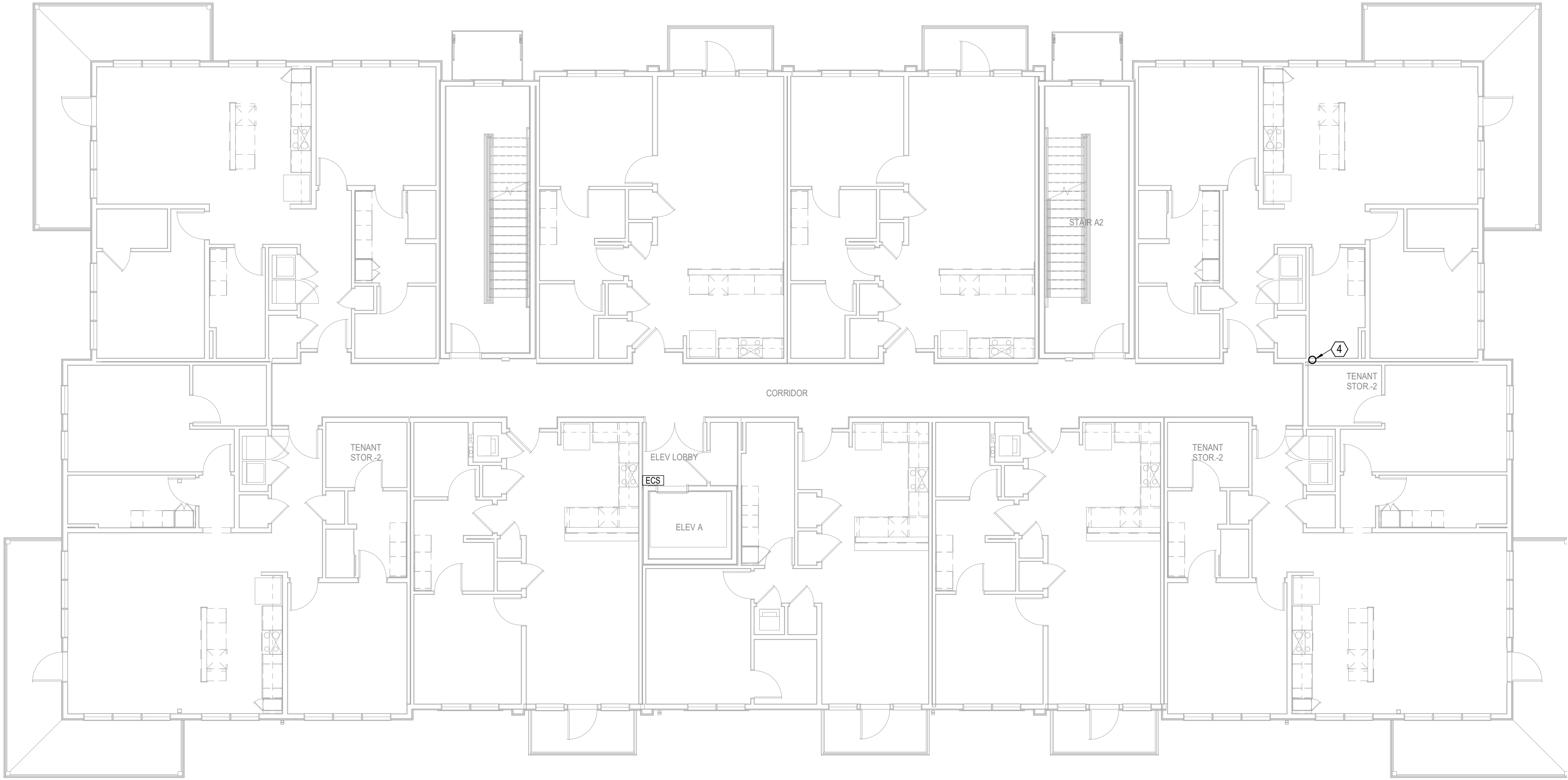
- TELECOM LEGEND:
- ① PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
 - ② TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
 - ③ TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
 - ④ (2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
 - ⑤ 2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
 - ⑥ HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:
- 1. ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A

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PRAIRIE VILLAGE,
KANSAS. 66207



9/16/2024



1 BUILDING A - 2ND FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522 DATE 09.16.2024
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING A - SECOND
FLOOR PLAN - TELECOM
SHEET NO.

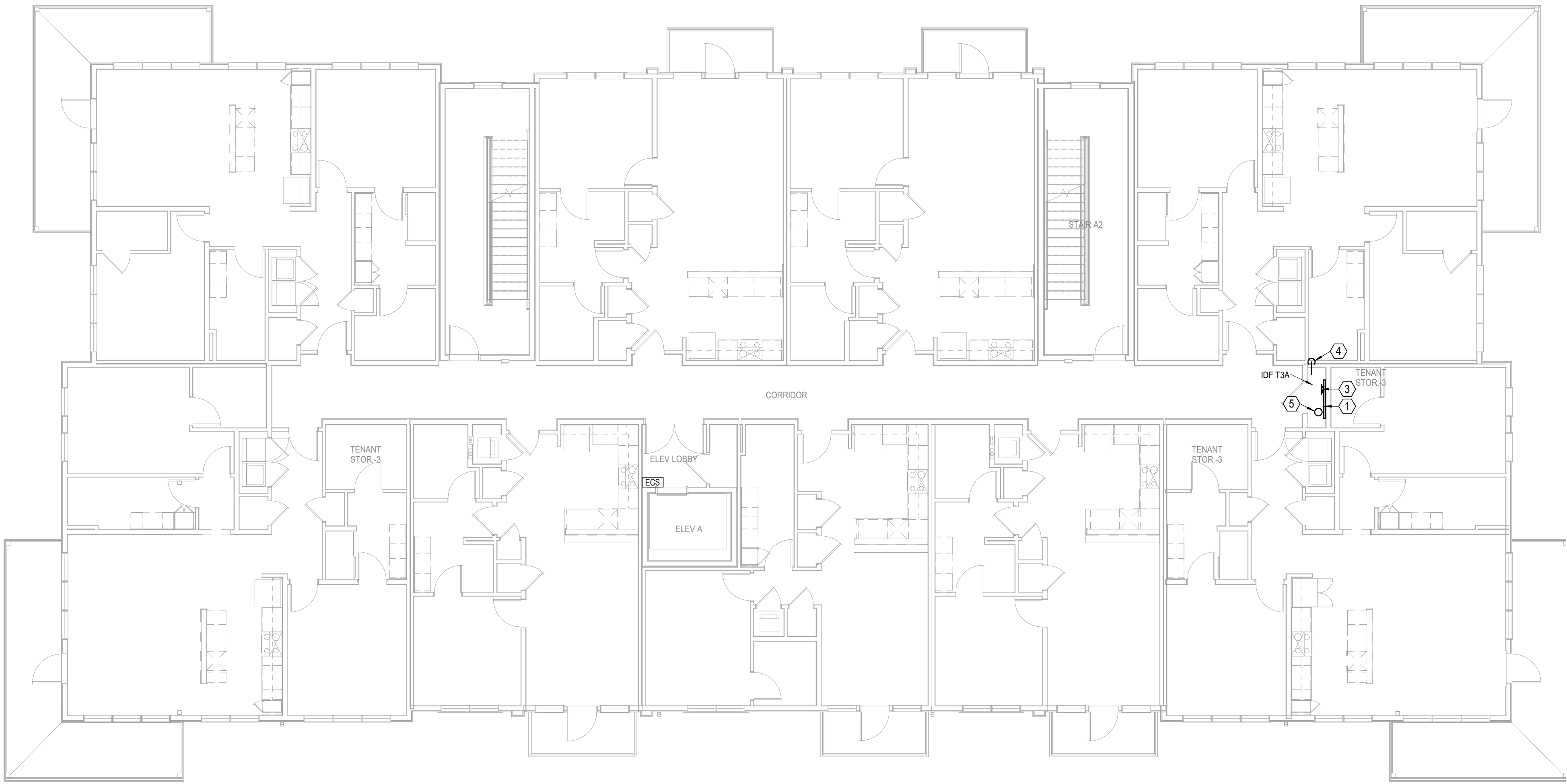
T1.12

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LSA PROJECT NO. 2404027



- TELECOM LEGEND:
- ① PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
 - ② TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
 - ③ TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
 - ④ (2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
 - ⑤ 2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
 - ⑥ HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:
- 1. ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A



1 BUILDING A - 3RD FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522 DATE 09.16.2024
DRAWN BY Author
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SHEET NAME
BUILDING A - THIRD FLOOR
PLAN - TELECOM
SHEET NO.

T1.13

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

- TELECOM LEGEND:
- ①

PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
- ②

TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
- ③

TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
- ④

(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
- ⑤

2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
- ⑥

HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

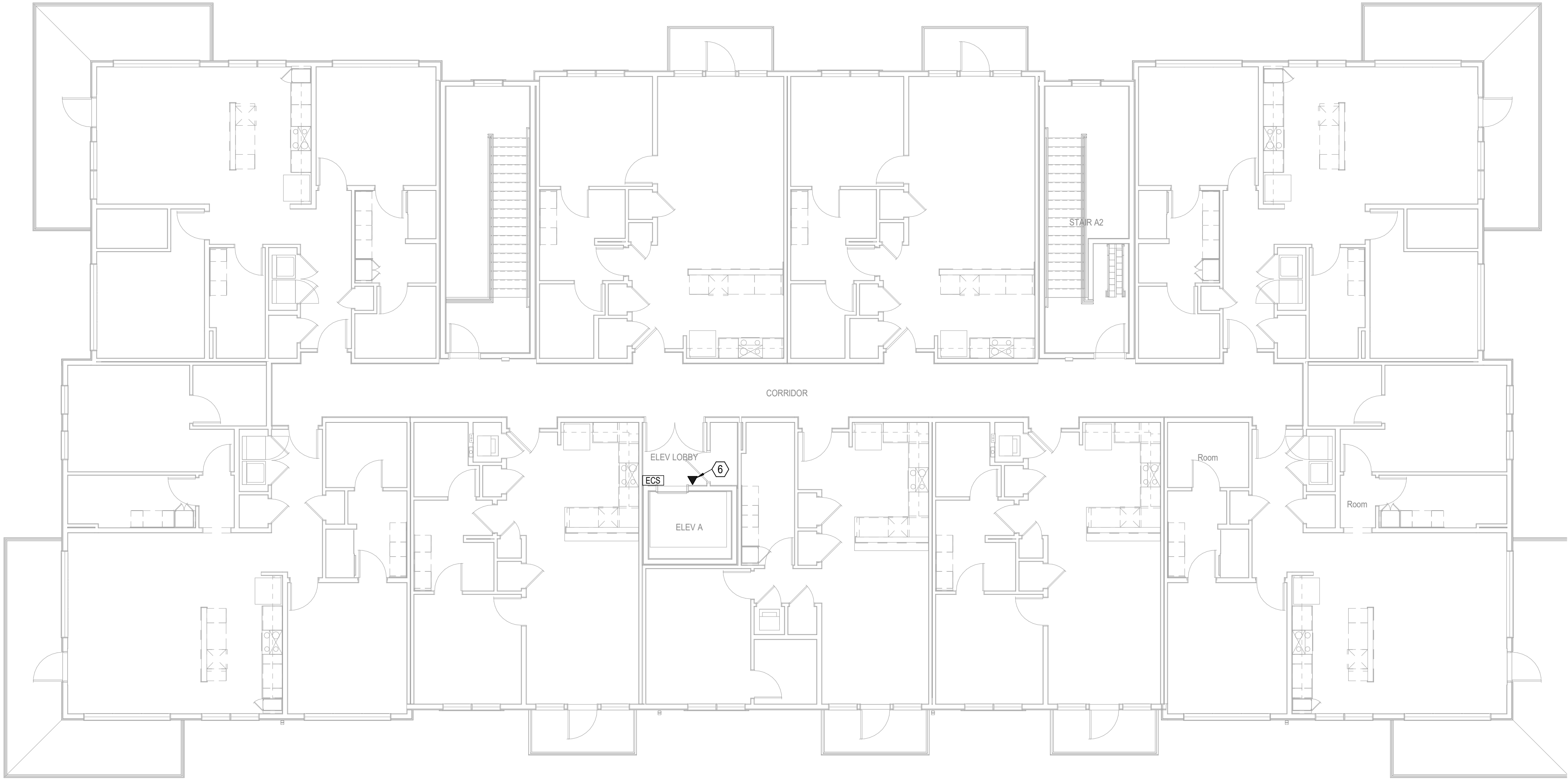
- TELECOM NOTES:
1.

ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A

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KANSAS. 66207



9/16/2024



1

BUILDING A - 4TH FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 1, 5, 7, 8)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522
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Author
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SHEET NAME
**BUILDING A - FOURTH
FLOOR PLAN - TELECOM**
SHEET NO.

T1.14

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LSA PROJECT NO. 2404027



- TELECOM LEGEND:**
- ① PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
 - ② TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
 - ③ TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
 - ④ (2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
 - ⑤ 2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
 - ⑥ HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:**
- 1. ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A

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STATE OF MISSOURI
Professional Engineer
No. 1966
Exp. 12/31/2024
9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

1 BUILDING B - 1ST FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 3, 6)

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LSA PROJECT NO. 2404027

JOB NO.
720522
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DATE
09.16.2024

SHEET NAME
**BUILDING B - FIRST FLOOR
PLAN - TELECOM**
SHEET NO.
T1.21



- TELECOM LEGEND:
1. PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
 2. TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
 3. TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
 4. (2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
 5. 2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
 6. HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:
1. ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A

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STATE OF MISSOURI
Professional Engineer
No. 1966
Exp. 12/31/2024
9/16/2024

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

1 BUILDING B - 2ND FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 3, 6)

JOB NO. 720522 DATE 09.16.2024
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LSA PROJECT NO. 2404027

SHEET NAME
**BUILDING B - SECOND
FLOOR PLAN - TELECOM**
SHEET NO.
T1.22



TELECOM LEGEND:	
①	PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
⑥	HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

TELECOM NOTES:	
1.	ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A

nsppj

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REGISTERED
PROFESSIONAL ENGINEER
No. 1966
NALL
RENEWED 06/01/2024

9/16/2024

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG

09.16.24 PERMIT SET

REVISIONS

1 **BUILDING B - 3RD FLOOR PLAN**
TELECOM
1/8" = 1'-0"
(BUILDINGS 3, 6)

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JOB NO.
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SHEET NAME
BUILDING B - THIRD FLOOR
PLAN - TELECOM

SHEET NO.
T1.23



TELECOM LEGEND:	
①	PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
⑥	HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

TELECOM NOTES:	
1.	ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A

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STATE OF MISSOURI
REGISTERED
PROFESSIONAL ENGINEER
No. 1966
Exp. 12/31/2024

9/16/2024

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG

09.16.24 PERMIT SET

REVISIONS

1

BUILDING B - 4TH FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 3, 6)

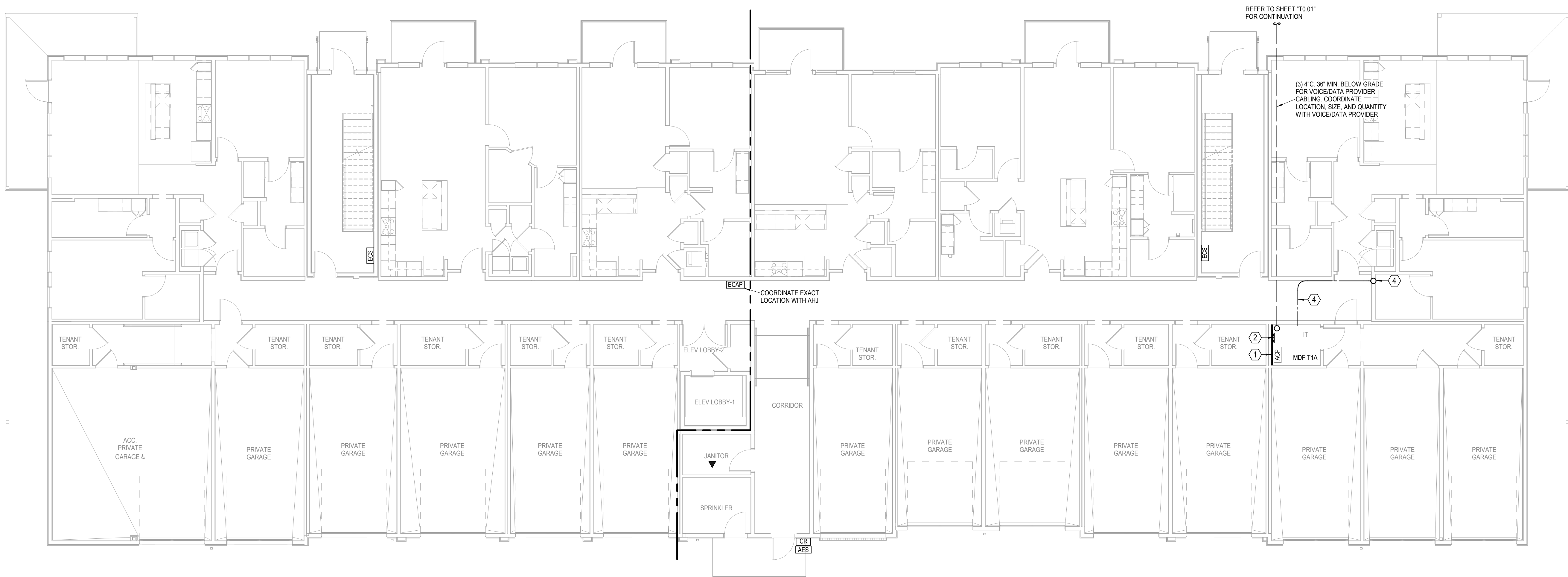
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LSA PROJECT NO. 2404027

JOB NO.
720522
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Author
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DATE
09.16.2024

SHEET NAME
BUILDING B - FOURTH
FLOOR PLAN - TELECOM

SHEET NO.
T1.24



1 BUILDING C - 1ST FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 2, 4)

TELECOM LEGEND:	
①	PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL. INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMBG: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB1/4416TMBGKT OR EQUAL PROVIDE #30 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB1/4412TMBGKT OR EQUAL PROVIDE #10 TO TMBG IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERCCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
⑥	HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.
TELECOM NOTES:	
1.	ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
• 09.16.24 PERMIT SET

△ REVISIONS

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LSA PROJECT NO. 2464027

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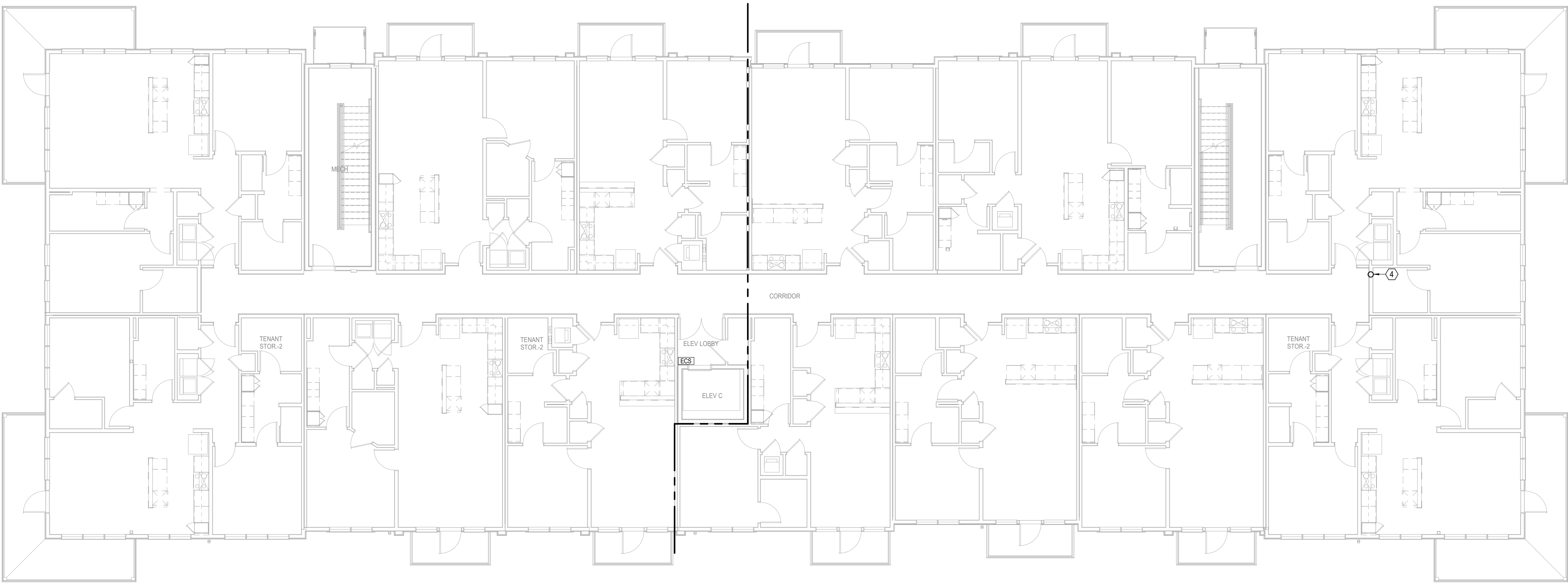
SHEET NAME
 BUILDING C - FIRST FLOOR
 PLAN - TELECOM
 SHEET NO.
T1.31

- TELECOM LEGEND:
- ① PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
 - ② TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
 - ③ TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
 - ④ (2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
 - ⑤ 2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
 - ⑥ HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:
1. ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A

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KANSAS. 66207
724

STATE OF MISSOURI
Professional Engineer
No. 1966
9/16/2024



1 BUILDING C - 2ND FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

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LSA PROJECT NO. 2404027

JOB NO.
720522
DRAWN BY
Author
PERMIT SET

DATE
09.16.2024

SHEET NAME
**BUILDING C - SECOND
FLOOR PLAN - TELECOM**
SHEET NO.

T1.32

- TELECOM LEGEND:
- ①

PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
- ②

TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
- ③

TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
- ④

(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
- ⑤

2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
- ⑥

HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:
1.

ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A

nspj

ARCHITECTS

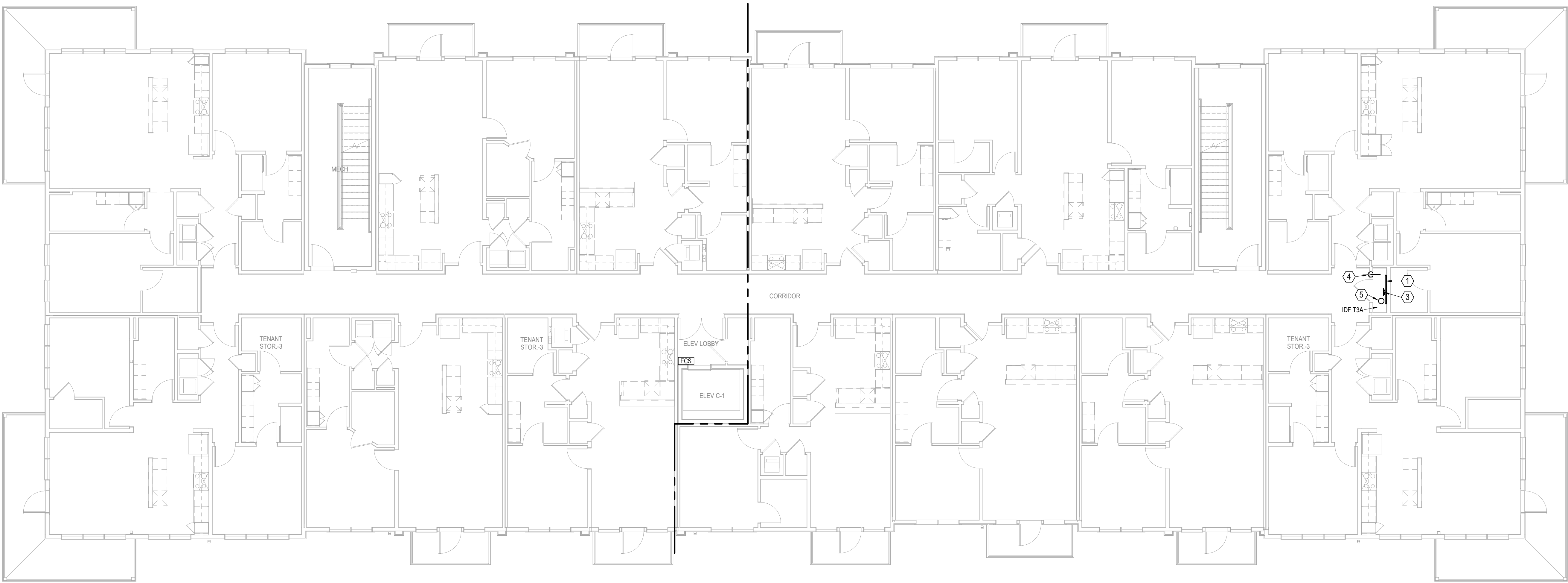
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LANDSCAPE
ARCHITECTURE

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NSPJARCH.COM

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PRAIRIE VILLAGE,
KANSAS. 66207

STATE OF MISSOURI
REGISTERED
ARCHITECT
NEW
EXPIRATION
PROFESSIONAL ENGINEER

9/16/2024



1

BUILDING C - 3RD FLOOR PLAN
TELECOM
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
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JOB NO.
720522

DATE
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Author

PERMIT SET

SHEET NAME
BUILDING C - THIRD FLOOR
PLAN - TELECOM

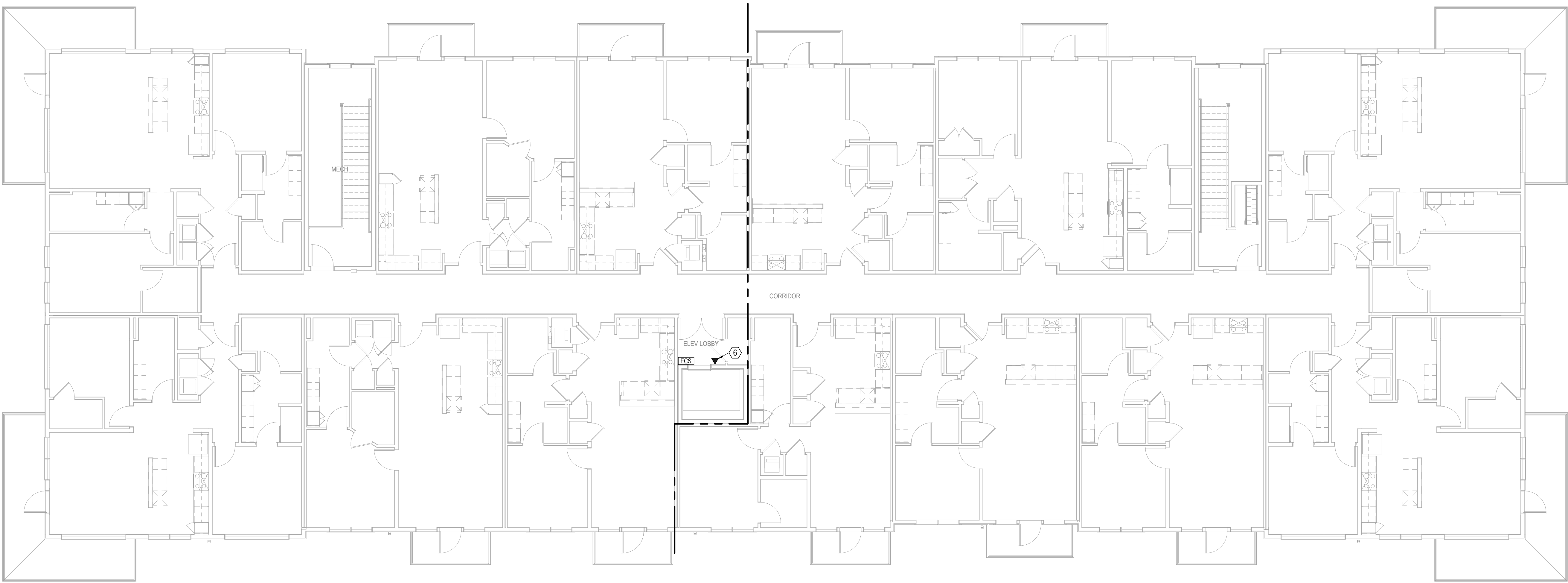
SHEET NO.
T1.33



9/16/2024

TELECOM LEGEND:	
①	PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
⑥	HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

TELECOM NOTES:	
1.	ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A



1 **BUILDING C - 4TH FLOOR PLAN**
TELECOM
1/8" = 1'-0"
(BUILDINGS 2, 4)

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING C - FOURTH
FLOOR PLAN - TELECOM
SHEET NO.

T1.34

LS&A
Latimer Sommers
& Associates P.A.
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6025 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (765) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2404027

DATE 09.16.2024

- TELECOM LEGEND:
- 1

PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
- 2

TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB#14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
- 3

TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB#14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
- 4

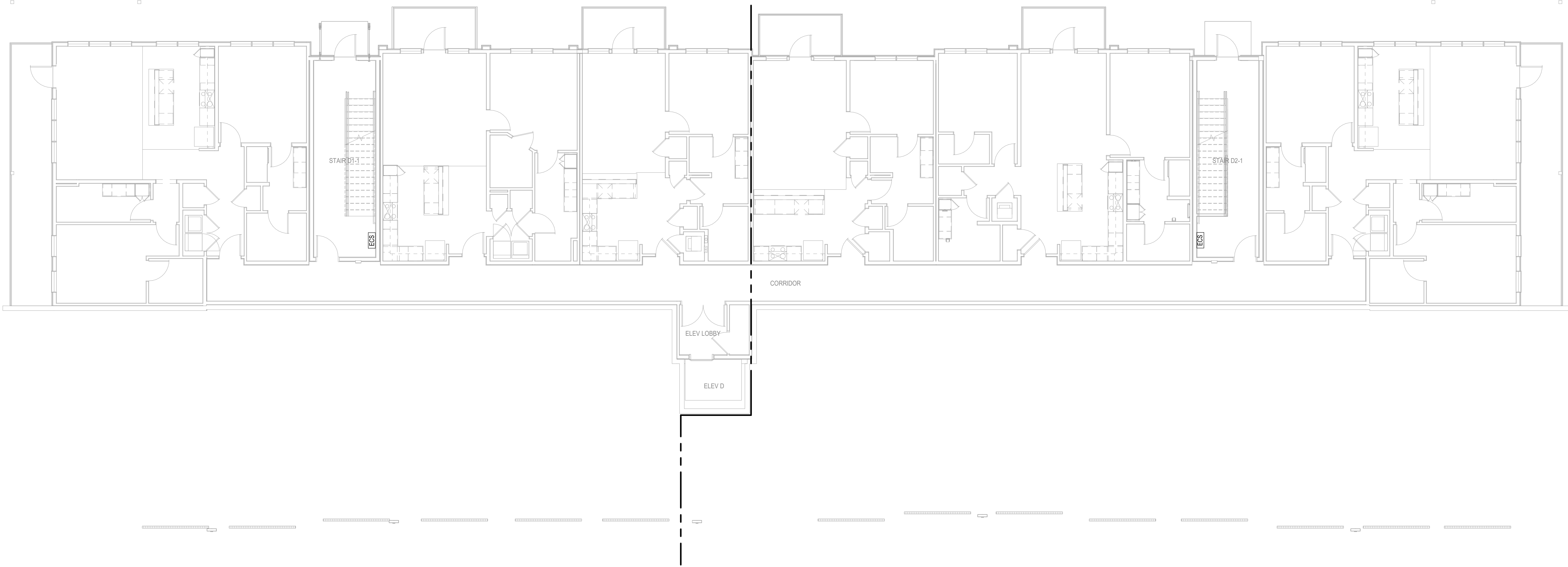
(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
- 5

2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
- 6

HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:
1.

ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A



1

BUILDING D - BASEMENT FLOOR PLAN
TELECOM
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522

DATE
09.16.2024

DRAWN BY
Author

PERMIT SET

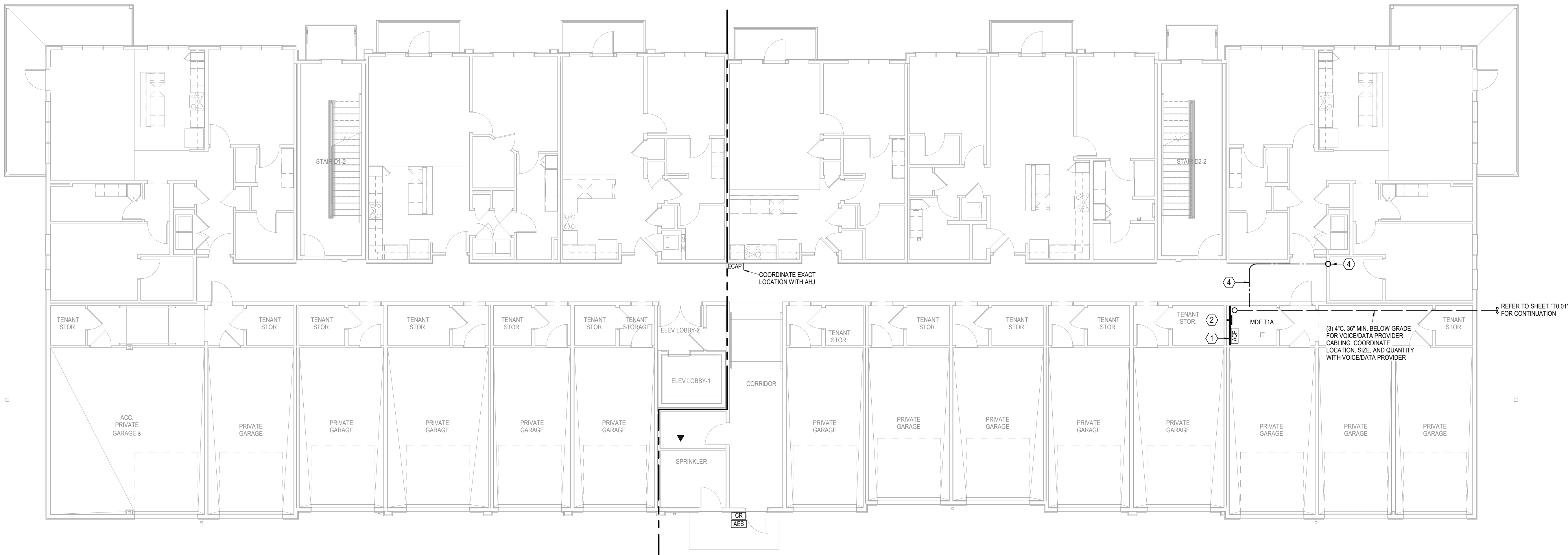
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LSA PROJECT NO. 2404027

SHEET NAME
BUILDING D - BASEMENT
FLOOR PLAN - TELECOM

SHEET NO.
T1.40

TELECOM LEGEND:	
①	PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
⑥	HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

TELECOM NOTES:	
1.	ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A



1 BUILDING D - 1ST FLOOR PLAN
TELECOM
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO. 720522
DRAWN BY Author
PERMIT SET

SHEET NAME
BUILDING D - FIRST FLOOR
PLAN - TELECOM
SHEET NO.

T1.41

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LSA PROJECT NO. 2404027

- TELECOM LEGEND:
- ①

PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
- ②

TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
- ③

TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
- ④

(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
- ⑤

2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
- ⑥

HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

- TELECOM NOTES:
1.

ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A

nsproj

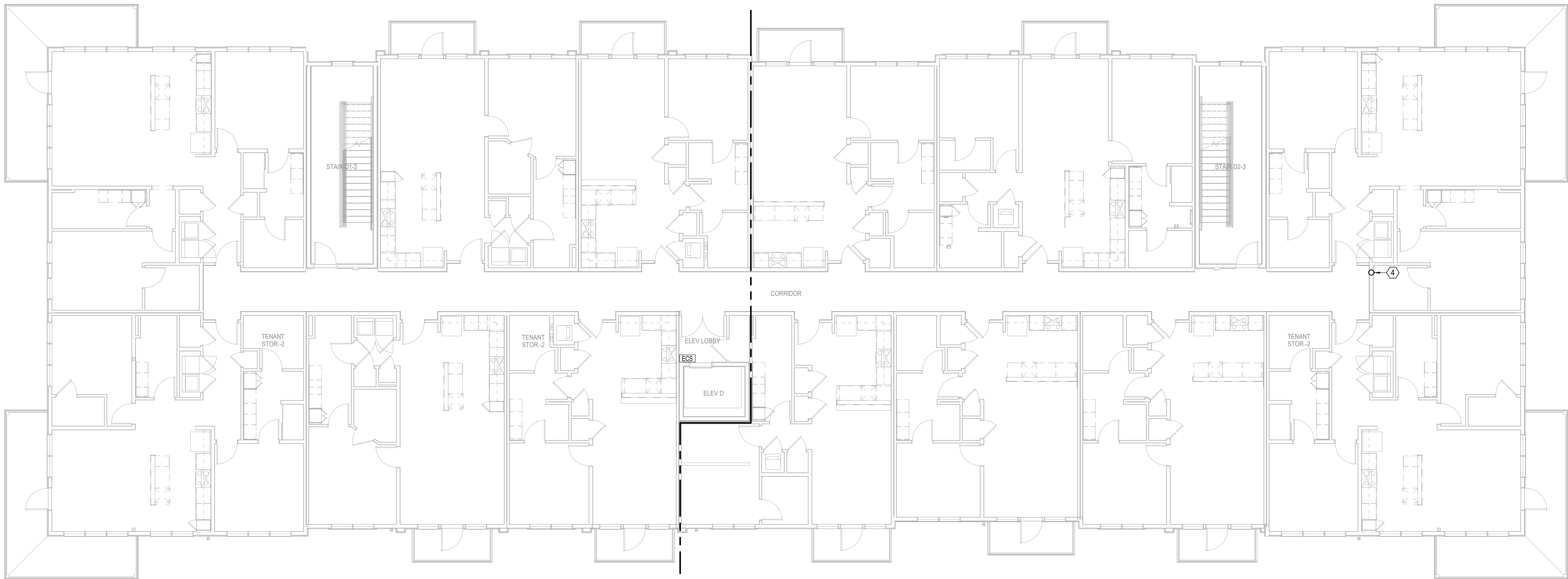
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STATE OF MISSOURI
REGISTERED
PROFESSIONAL ENGINEER
No. 000000000
NALL
9/16/2024



1

BUILDING D - 2ND FLOOR PLAN
TELECOM
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

△ REVISIONS

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LSA PROJECT NO. 2404027

JOB NO.
720522

DATE
09.16.2024

DRAWN BY
Author

PERMIT SET

SHEET NAME
**BUILDING D - SECOND
FLOOR PLAN - TELECOM**

SHEET NO.
T1.42

nsnpj

ARCHITECTS

ARCHITECTURE
LANDSCAPE
ARCHITECTURE

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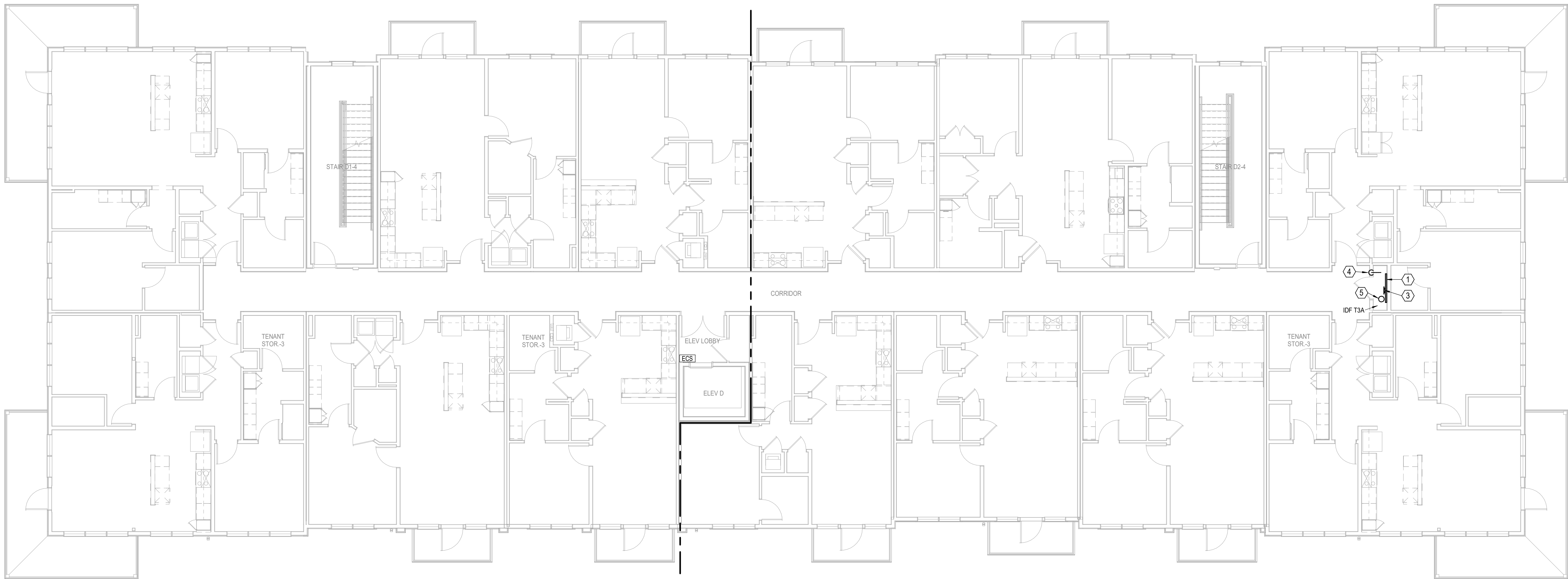
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PRAIRIE VILLAGE,
KANSAS. 66207

STATE OF MISSOURI

Professional Engineer

9/16/2024

TELECOM LEGEND:	
①	PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
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⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
⑥	HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.
TELECOM NOTES:	
1.	ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A



1 **BUILDING D - 3RD FLOOR PLAN**
TELECOM
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

△ REVISIONS

LS&A

Latimer Sommers & Associates P.A.

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LSA PROJECT NO. 2404027

JOB NO.
720522

DATE
09.16.2024

DRAWN BY
Author

PERMIT SET

SHEET NAME
BUILDING D - THIRD FLOOR
PLAN - TELECOM

SHEET NO.
T1.43

- TELECOM LEGEND:
- 1

PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
- 2

TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
- 3

TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
- 4

(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
- 5

2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
- 6

HARDLINE PHONE LINE CONNECTION SPECIFIED TO ELEVATOR CONTROL PANEL. ELEVATOR DESIGNER/PROVIDER SHALL VERIFY THAT ALL REQUIREMENTS ARE MET REGARDING THE REQUIRED ELEVATOR CELLULAR EQUIPMENT.

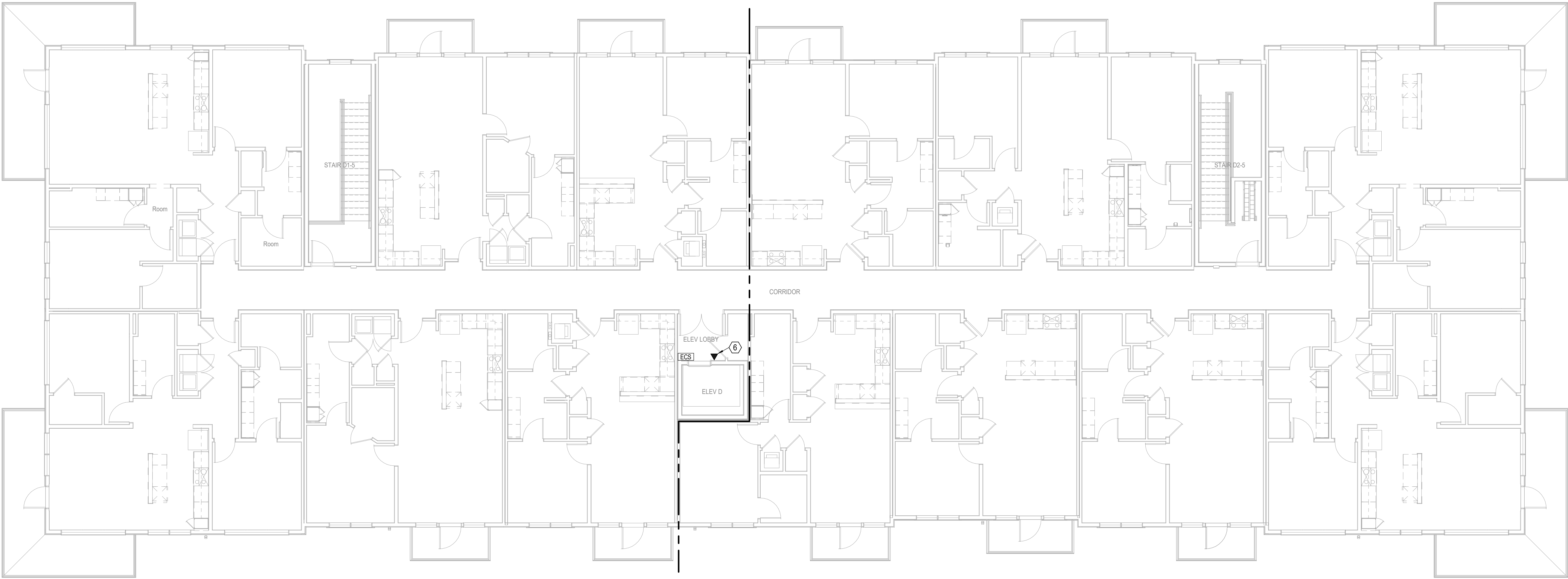
- TELECOM NOTES:
1.

ROUTE VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A

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KANSAS. 66207



9/16/2024



1 **BUILDING D - 4TH FLOOR PLAN**
TELECOM
1/8" = 1'-0"

A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEES SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

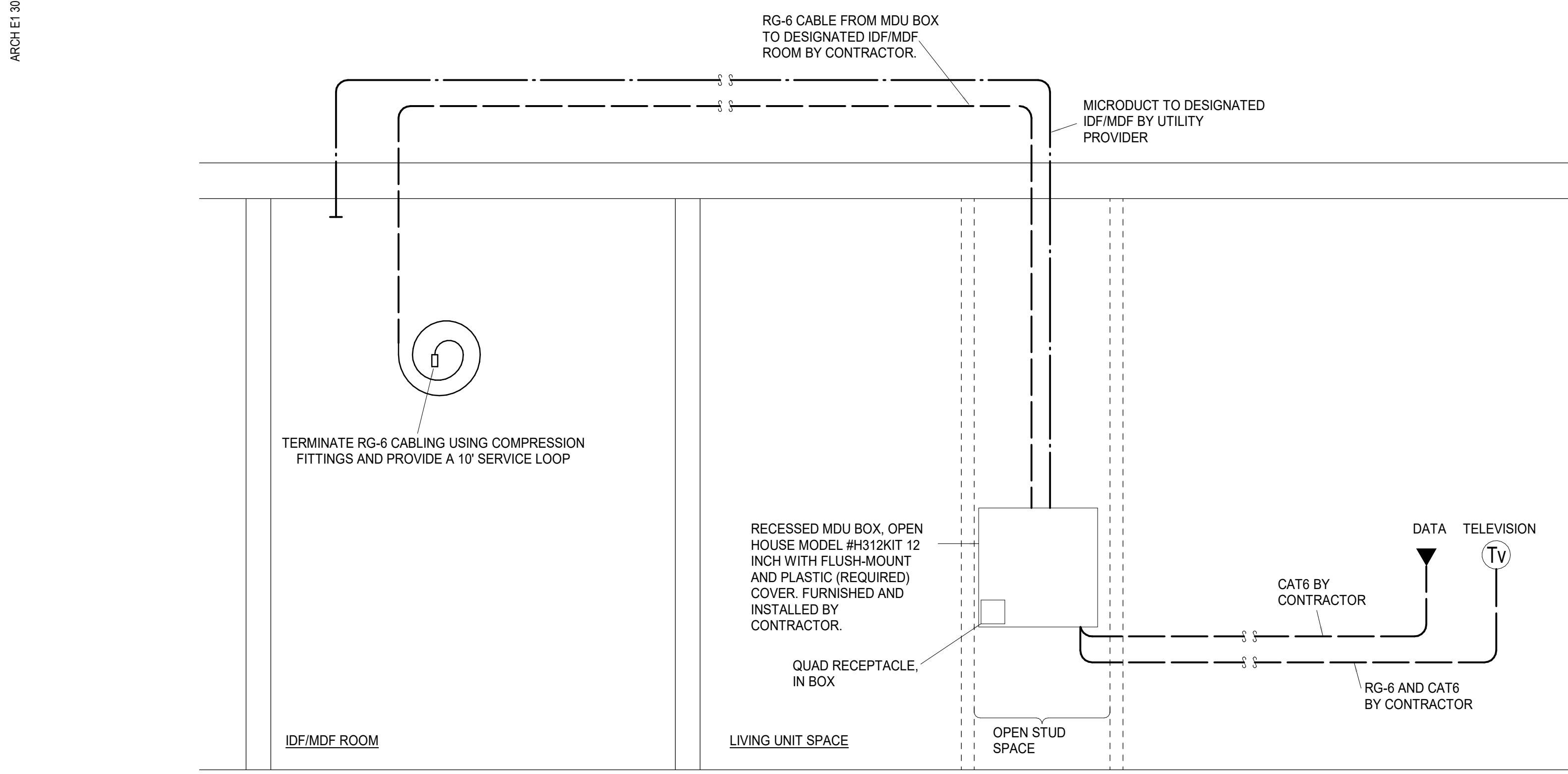
REVISIONS

JOB NO.
720522
DATE
09.16.2024
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Author
PERMIT SET

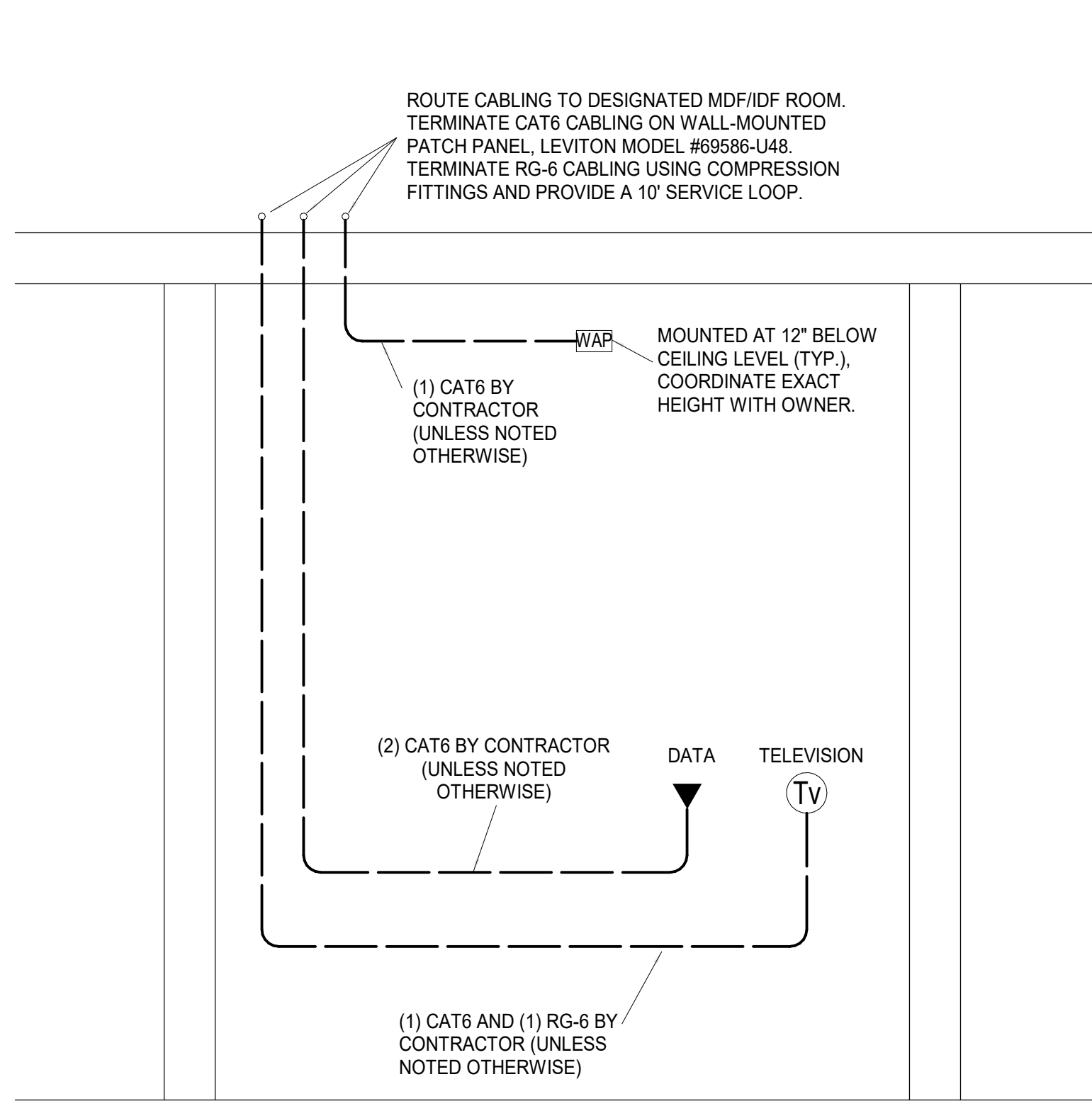
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LSA PROJECT NO. 2404027

SHEET NAME
BUILDING D - FOURTH
FLOOR PLAN - TELECOM
SHEET NO.

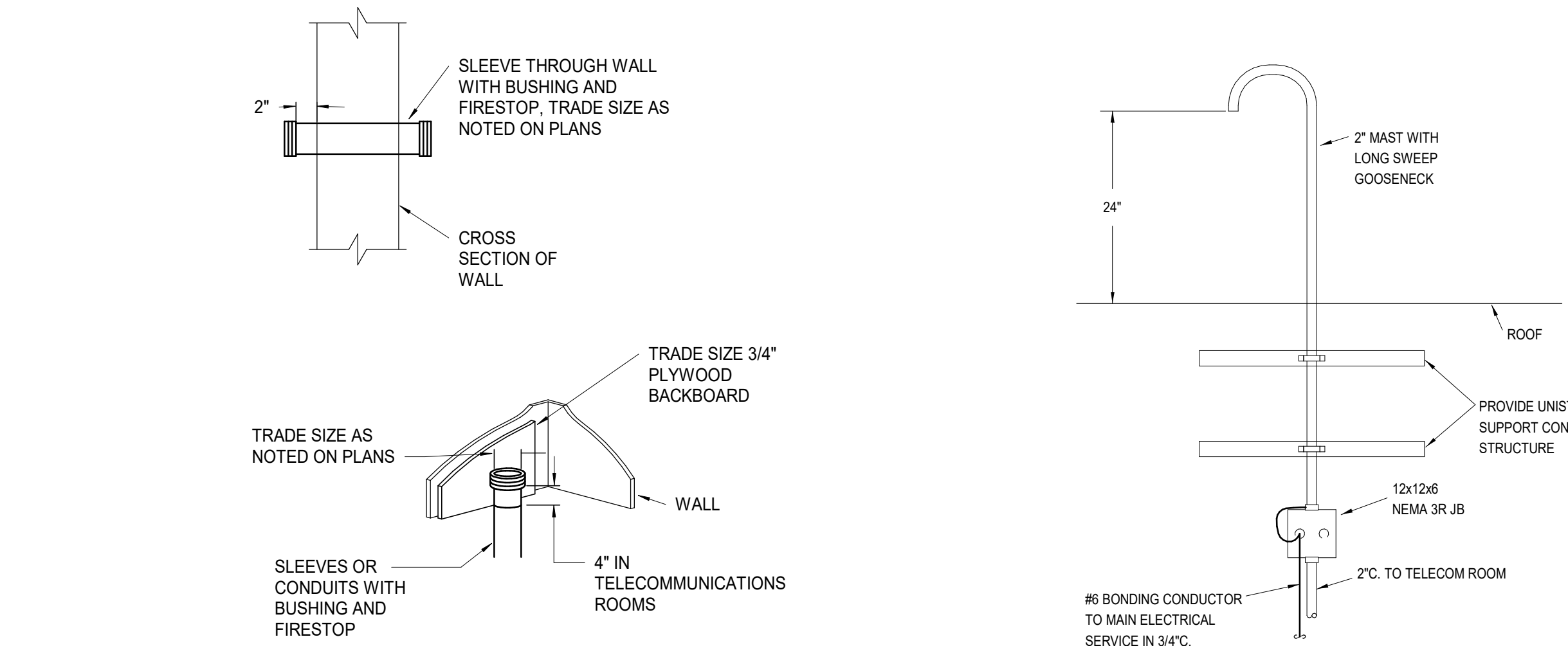
T1.44



1 TYPICAL APARTMENT RISER DIAGRAM
NOT TO SCALE



2 TYPICAL COMMON/OFFICE AREA RISER DIAGRAM
NOT TO SCALE

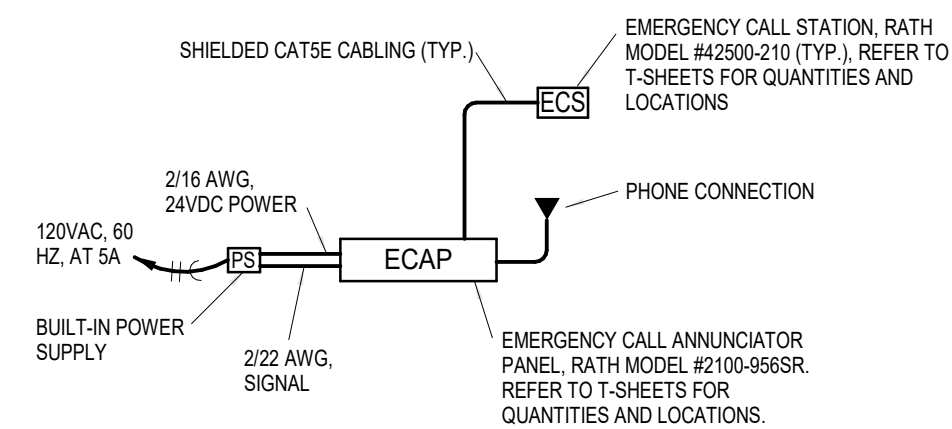


4 SLEEVE/CONDUIT DETAIL
NOT TO SCALE

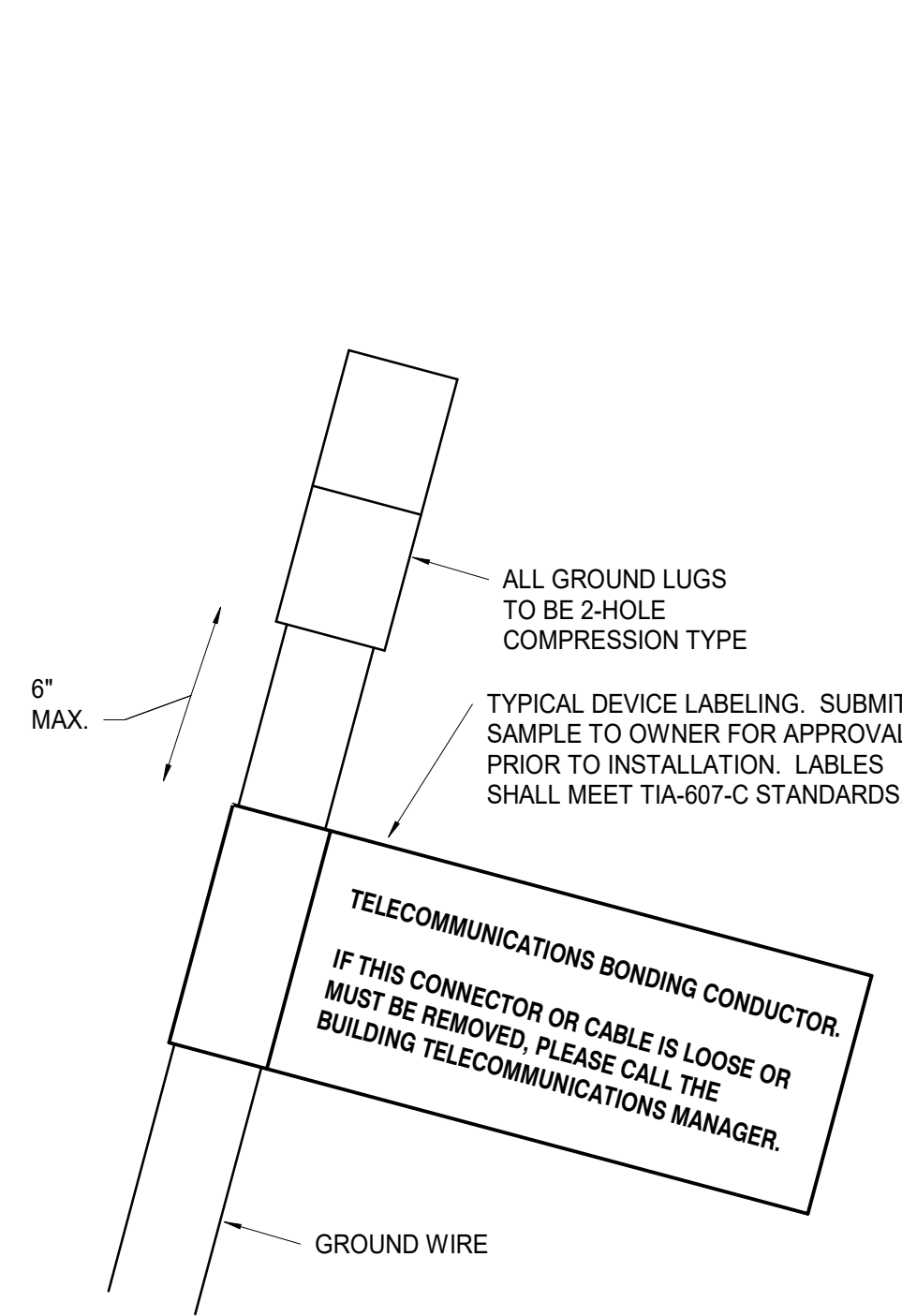
5 WEATHERHEAD DETAIL
NOT TO SCALE

TWO-WAY COMMUNICATION SYSTEM SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
[ECAP]	RATH	2500-210	EMERGENCY CALL ANNUNCIATOR PANEL	1, 4, 5, 6
[ECS]	RATH	2100-956SR	EMERGENCY CALL STATION	2, 4, 6

REMARKS:
1 - PROVIDE POWER SUPPLIES AS REQUIRED. PROVIDE WITH STI MODEL #STI-7521 NEMA 4X CLEAR ENCLOSURE WITH THUMB LOCK.
2 - PROVIDE WITH DOUBLE GANG BACKBOX AND STI MODEL #STI-7511E CLEAR ENCLOSURE WITH THUMB LOCK.
3 - VERIFY SIZE OF POWER SUPPLY WITH LAYOUT OF THE SYSTEM.
4 - VERIFY LOCATION WITH AHJ.
5 - PROVIDE 2100-VOIP INTERFACE DEVICE FOR VOIP PHONE SYSTEMS.
6 - EQUIVALENTS BY CORNELL/ALPHA COMMUNICATIONS.



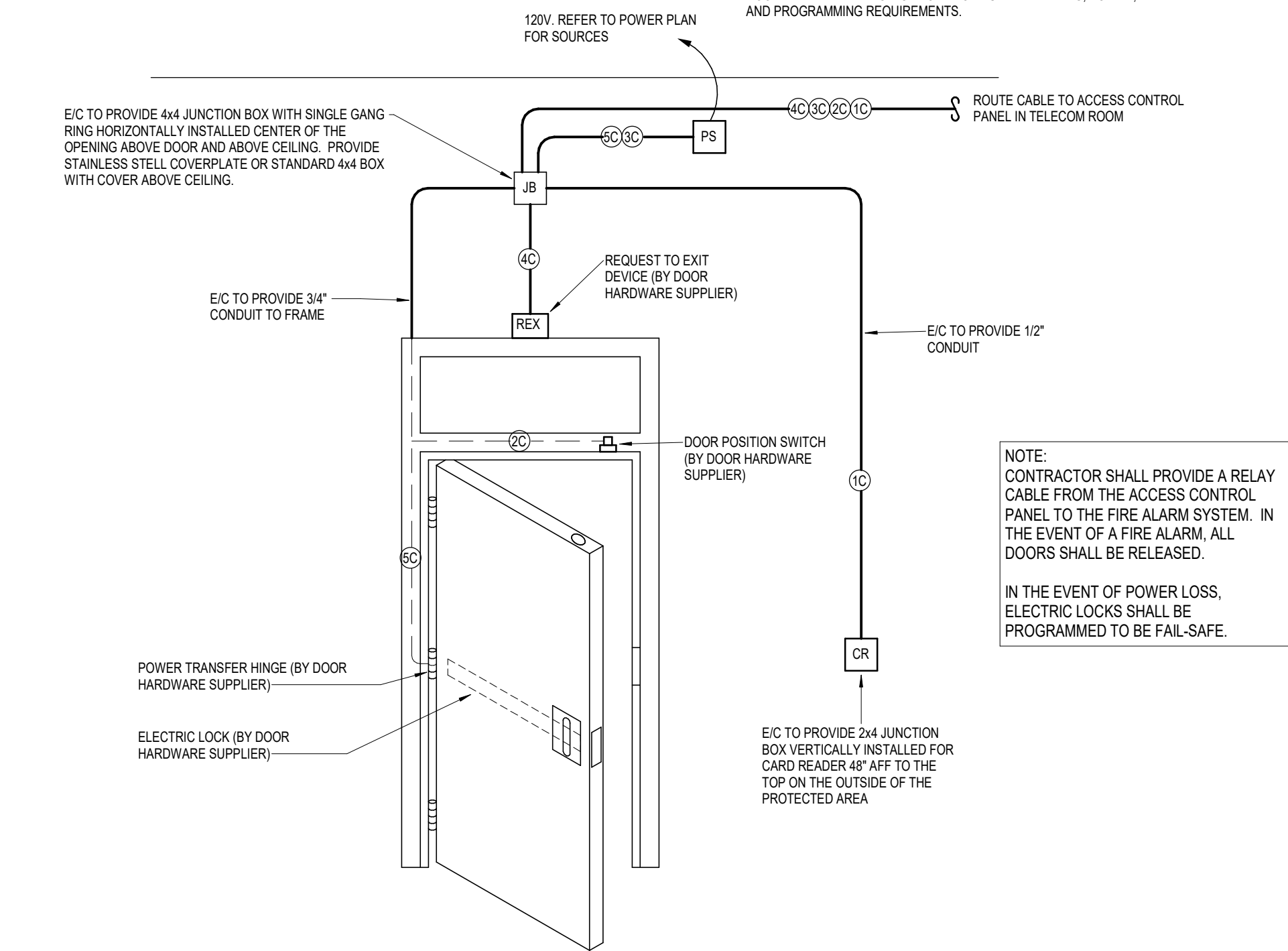
6 TWO-WAY COMMUNICATION DIAGRAM
NOT TO SCALE



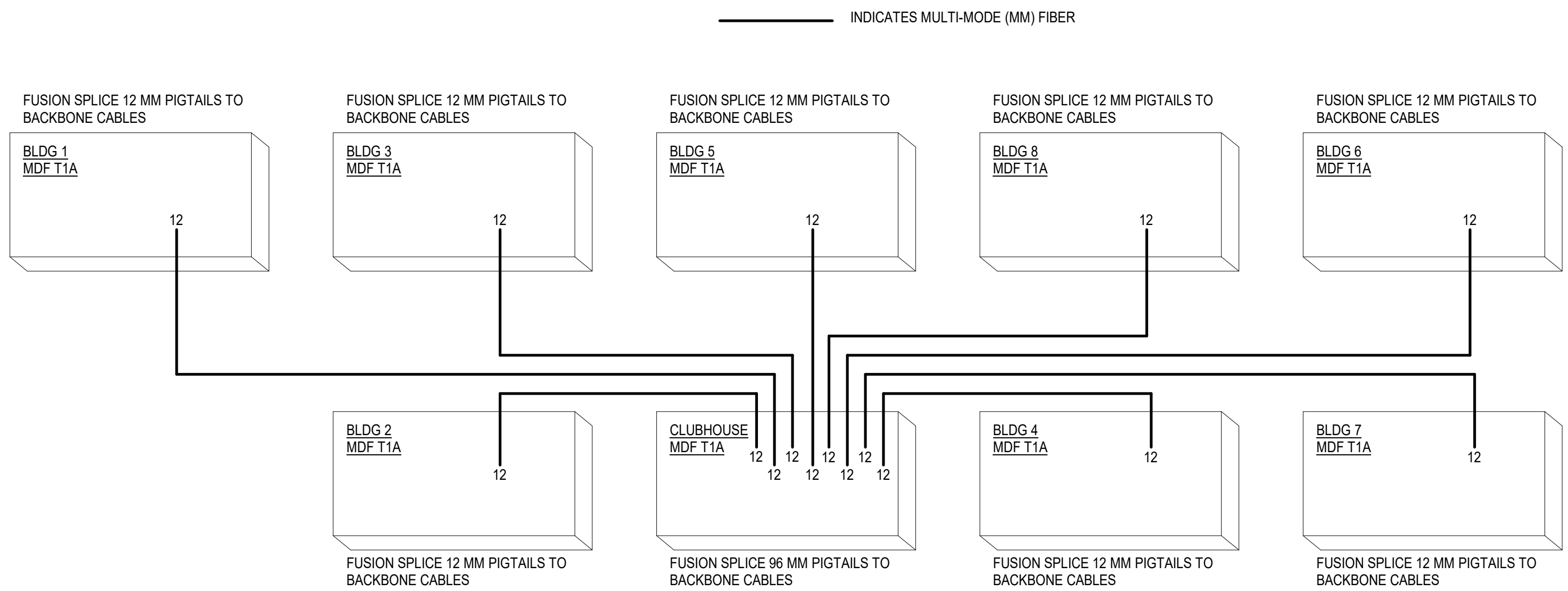
3 GROUND WIRE DETAIL
NOT TO SCALE

CABLE LEGEND:		ACCESS CONTROL DEVICE LEGEND:	
[C]	PROXIMITY CARD READER (ORANGE) 18GA 4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.	[ACP]	ACCESS CONTROL PANEL
[M]	MAGNETIC SWITCH (WHITE) 18GA 2 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.	[CR]	HID CARD READER
[E]	ELECTRIC LOCK (GRAY) 18GA 4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.	[REX]	REQUEST TO EXIT *
[R]	REQUEST TO EXIT (BLUE) 18GA 4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.	[DP]	DOOR POSITION SWITCH *
[L]	ELECTRIC LOCK FROM PS TO PUSHBAR 18GA 4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.	[EL]	ELECTRIC LOCK (24V. DC) *
ACCESS CONTROL CABLE SCHEDULE:		[PS]	POWER SUPPLY (24V. DC) *
[C]	BELDEN MODEL #538AFS	[ADA]	ADA PUSHBUTTON *
[L]	BELDEN MODEL #5302FE	[DADA]	DUAL ADA PUSHBUTTON *
		[ADAM]	ADA MOTORIZED OPERATOR *
		[VIMS]	VIDEO INTERCOM MASTER STATION
		[VIC]	VIDEO INTERCOM

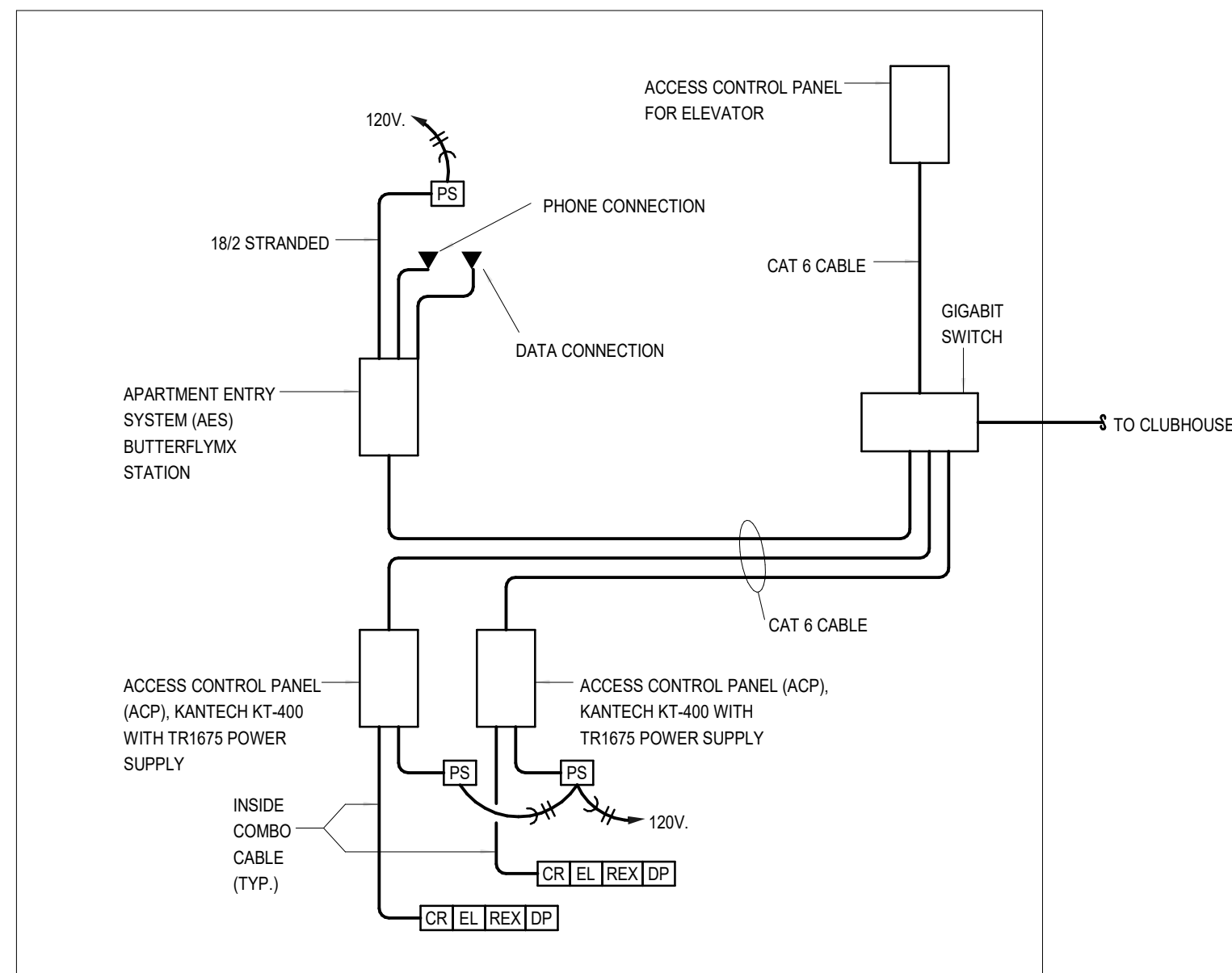
* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING, POWER, AND PROGRAMMING REQUIREMENTS.



7 TYPICAL ACCESS DOOR DETAIL
NOT TO SCALE



9 FIBER BACKBONE CABLE TERMINATION DETAIL
NOT TO SCALE



8 TYPICAL ACCESS CONTROL PANEL DETAIL
NOT TO SCALE

ACCESS CONTROL CABLE SCHEDULE				
MARK	MANUFACTURER	MODEL/PART NUMBER	DESCRIPTION	REMARKS
[C]	BELDEN	538AFS	INSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1
[L]	BELDEN	5302UE	ELECTRIC LOCK CABLE 18 GA 4 COND STRANDED	1, 2
[C]	CSC	759218	OUTSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1

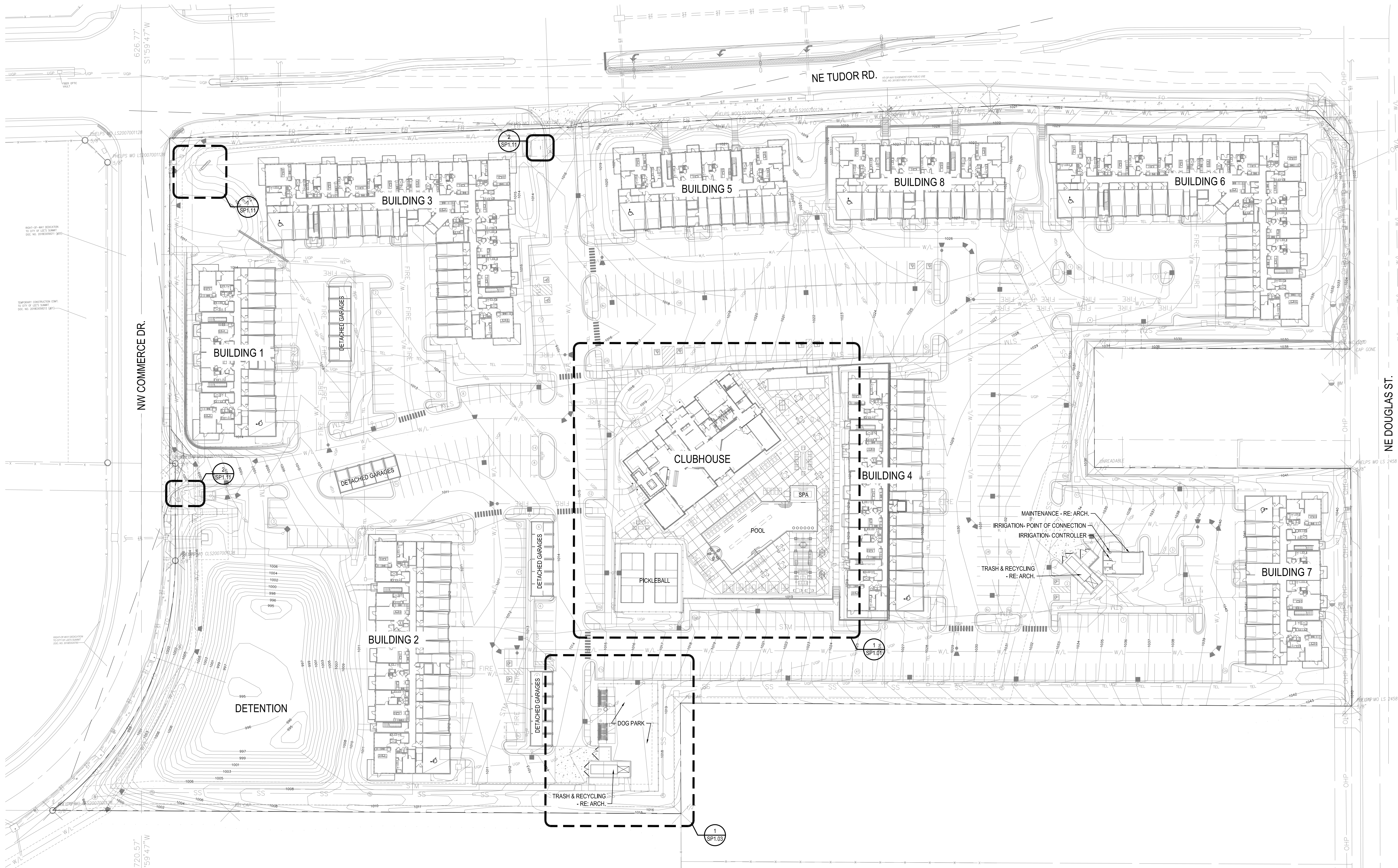
REMARKS:
1 - PROVIDED AND INSTALLED BY EIC.
2 - EIC TO ROUTE CABLE FROM DEVICE AND LEAVE A 8'-0" SERVICE LOOP AT THE BURGLAR ALARM PANEL. PROVIDE A 24" SERVICE LOOP AT DEVICE.
3 - PROVIDE A MECHANICALLY PRINTED LABEL ON EACH END OF EACH CABLE FOR REFERENCE.
4 - PROVIDED AS A PART OF THE DOOR HARDWARE PACKAGE.

SECURITY SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
[CR]	HID	RP40	CARD READER	
[ACP]	KANTECH	KT400	ACCESS CONTROL PANEL	3
[RES]	KANTECH	KTES	APARTMENT ENTRY SYSTEM	
	HID		FOBs	1

REMARKS:
1 - VERIFY QUANTITY WITH OWNER.
2 - DOUBLE POLE, DOUBLE THROW FOR ACCESS CONTROL AND BURGLAR ALARM.
3 - PROVIDE QUANTITIES SHOWN ON PLANS.



9/16/2024



A NEW MULTI-FAMILY PROJECT:
EVREN APARTMENTS
LEE'S SUMMIT, MISSOURI
DRAWING RELEASE LOG
09.16.24 PERMIT SET

REVISIONS

JOB NO.
720522
DRAWN BY
SLW / KRM
PERMIT SET

SHEET NAME
SITE PLAN

SHEET NO.
SP1.00

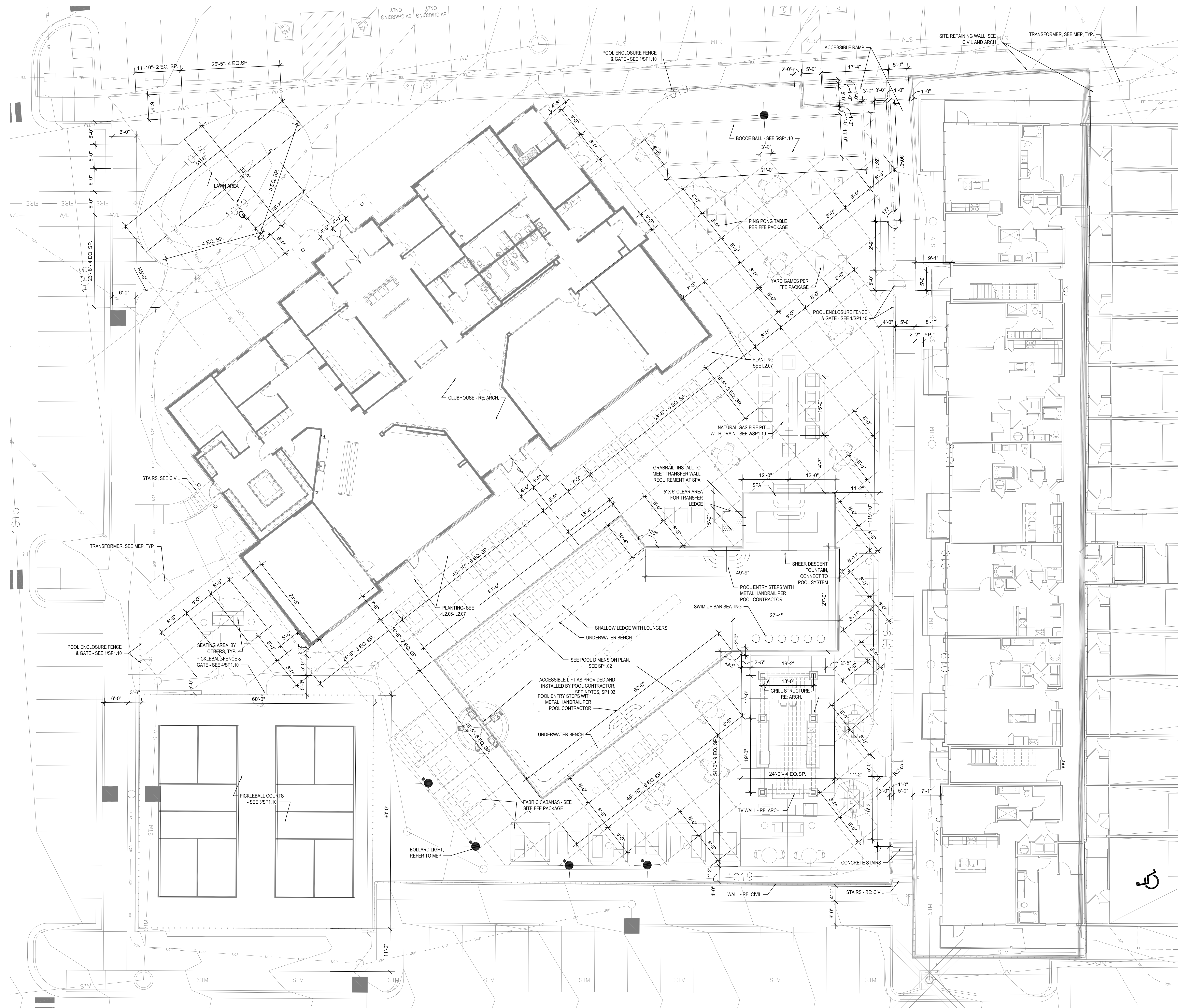
SITE PLAN
1" = 40'-0"

DRAWING RELEASE LOG
● 09.16.24 PERMIT SET

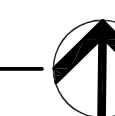
JOB NO. 720522
DRAWN BY SLW / KRM
PERMIT SET

SHEET NAME
**AMENITY AREA
ENLARGEMENT PLAN**
SHEET NO.

SP1.01



① AMENITY AREA ENLARGEMENT PLAN
1" = 10'-0"

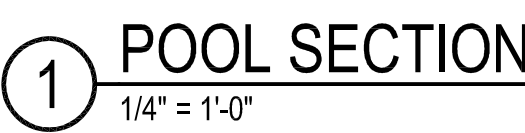
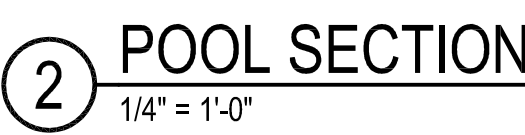


JOB NO. 720522
DRAWN BY SLW / KRM
PERMIT SET

SHEET NAME
**AMENITY AREA
ENLARGEMENT PLAN**
SHEET NO.

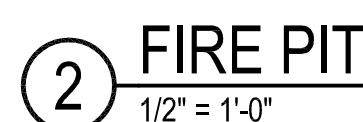
SP1.01

1. ALL POOL DRAWINGS AS PART OF THIS PACKAGE ARE TO CONVEY DESIGN INTENT. POOL IS TO BE DESIGN-BUILD AND ALL EQUIPMENT, PLUMBING, STRUCTURAL DETAILS, SAFETY EQUIPMENT, & SIGNAGE ARE TO BE PROVIDED BY THE POOL CONTRACTOR. PROVIDE MATERIAL AND COLOR SAMPLES TO THE LANDSCAPE ARCHITECT/OWNER FOR APPROVAL. ALL PERMITS & APPROVALS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. PROVIDE SALT WATER FILTRATION SYSTEM FOR POOL.
3. ALL POOL LIGHTING TO BE COLOR CHANGING LED & BE CONTROLLABLE BY WIRELESS CONTROLLER.
4. POOL COPING TO BE BULL NOSED CAST STONE OR APPROVED EQUAL. COLOR AS APPROVED BY OWNER.
5. POOL CONTRACTOR TO PROVIDE REMOVABLE SAFETY COVER COMPLYING WITH ASTM F1346 FOR THE POOL.
6. POOL CONTRACTOR TO PROVIDE NO DIVING/DEPTH TILES IN POOL DECK FOR ALL AREAS PER CODE REQUIREMENTS.
7. FINAL SLOPES WITHIN POOL SHELL TO BE DETERMINED BY POOL CONTRACTOR AND MEET ALL APPLICABLE CODES.
8. CORD. BONDING FOR ANY METAL WITHIN 10' OF POOL WITH POOL CONTRACTOR.
9. ALL POOL GATES ARE TO BE SELF-CLOSING & SELF-LATCHING, INCLUDE A CRASH BAR/PANIC HARDWARE ON POOL SIDE OF GATE, AND OPEN AWAY FROM THE POOL. LOCATION, SIZE, AND STYLE OF FENCE AND GATES ARE AS SPECIFIED IN THE PLANS & DETAILS.
10. SLEEVE FOR ADA LIFT SHALL BE PROVIDED BY POOL CONTRACTOR ANCHORED PER MANUF. SPECS. POOL CONTRACTOR TO PROVIDE ACCESSIBLE LIFT.
11. REPORT ANY MISSING INFORMATION AND / OR DISCREPANCIES FOUND WITH REGARD TO EXISTING CONDITIONS OR PROPOSED DESIGN IMMEDIATELY TO THE LANDSCAPE ARCHITECT. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHERE IT IS FOUND THAT KNOWN DISCREPANCIES EXIST. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
12. EMERGENCY PHONE TO BE PROVIDED BY POOL CONTRACTED AND LOCATED PER MEP PLANS, AS APPROVED BY OWNER.



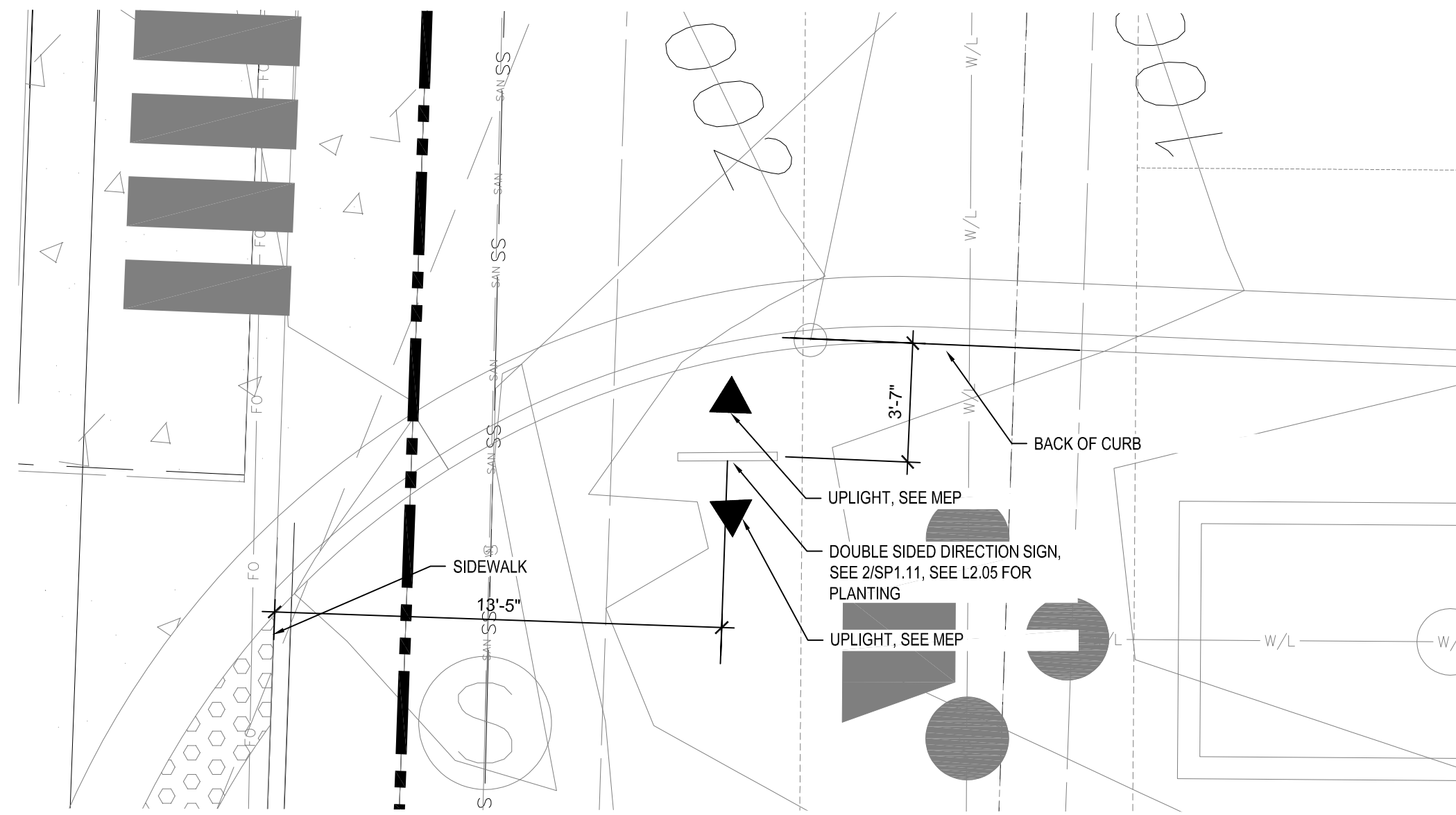
SHEET NAME
POOL DIMENSION
PLAN & SECTIONS
SHEET NO.
SP1.02

1. UNLESS NOTED OTHERWISE IN THE PLANS & DETAILS, NEAT EXCAVATE ALL FOOTINGS INTO 2000 PSF (MIN.) SOIL (FIELD VERIFY). 3000 PSI CONC. (+/- 4" SLUMP).
2. ALL EXPANSION JOINTS (EJ) TO HAVE SELF LEVELING CAULK OVER FELT TO SEAL - COLOR TO MATCH ADJACENT PAVING.
3. VERIFY ALL STRUCTURAL INFORMATION WITH STRUCTURAL ENGINEER, INCLUDING, BUT NOT LIMITED TO, WOOD MEMBER SIZES, ALL ANCHORING CONDITIONS, AND FOOTING/FOUNDATION SIZE AND REINFORCEMENT.
4. VERIFY ALL NOTED ELEVATIONS AGAINST CIVIL ENGINEER GRADING PLAN.
5. REPORT ANY DISCREPANCIES OR MISSING INFORMATION IMMEDIATELY TO THE LANDSCAPE ARCHITECT. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHERE IT IS FOUND THAT KNOWN DISCREPANCIES EXIST. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
6. ALL WOOD MEMBERS TO BE S4S CEDAR, STAINED PER SPECS. COLOR AS SELECTED BY OWNER

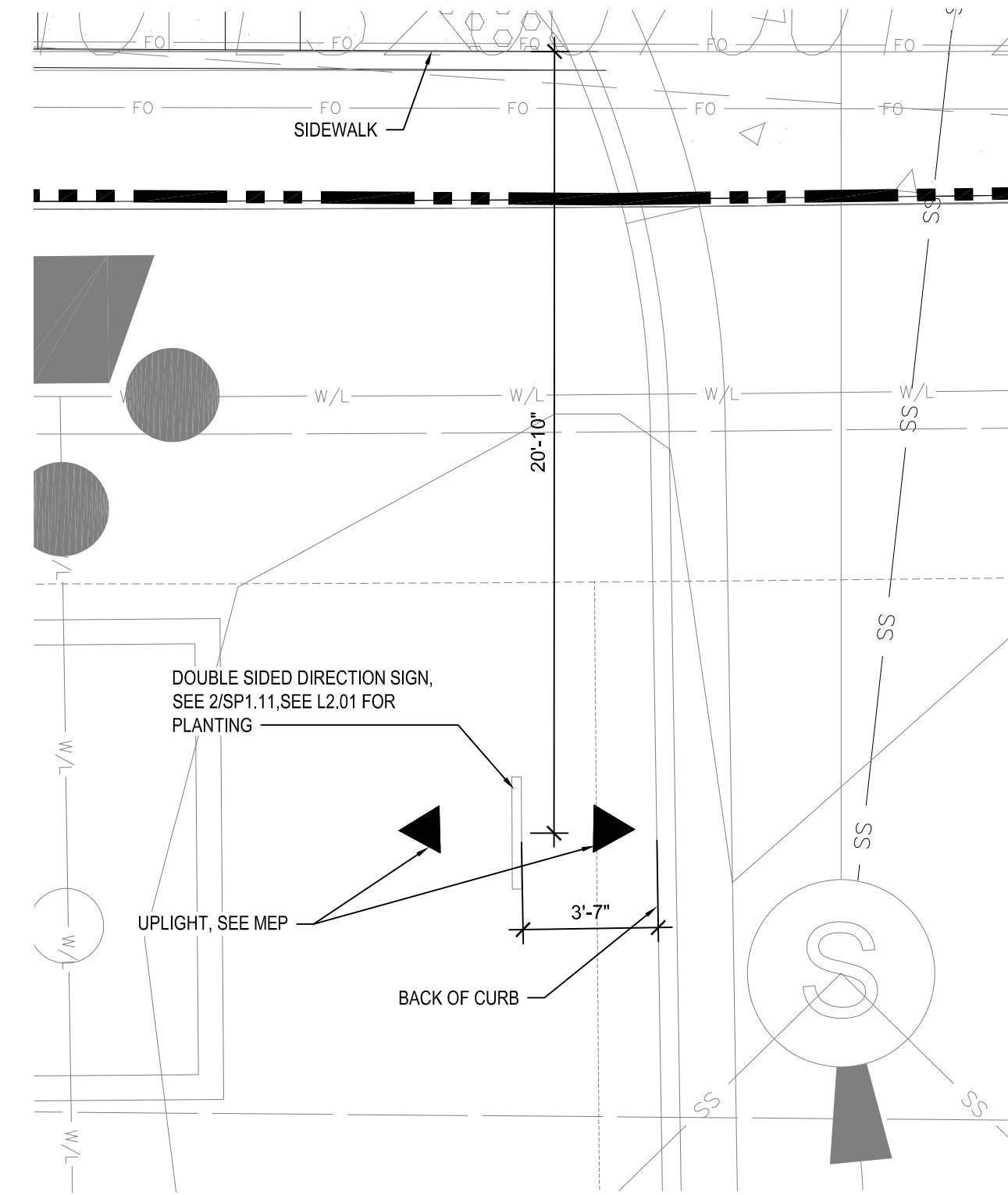


SITE NOTES

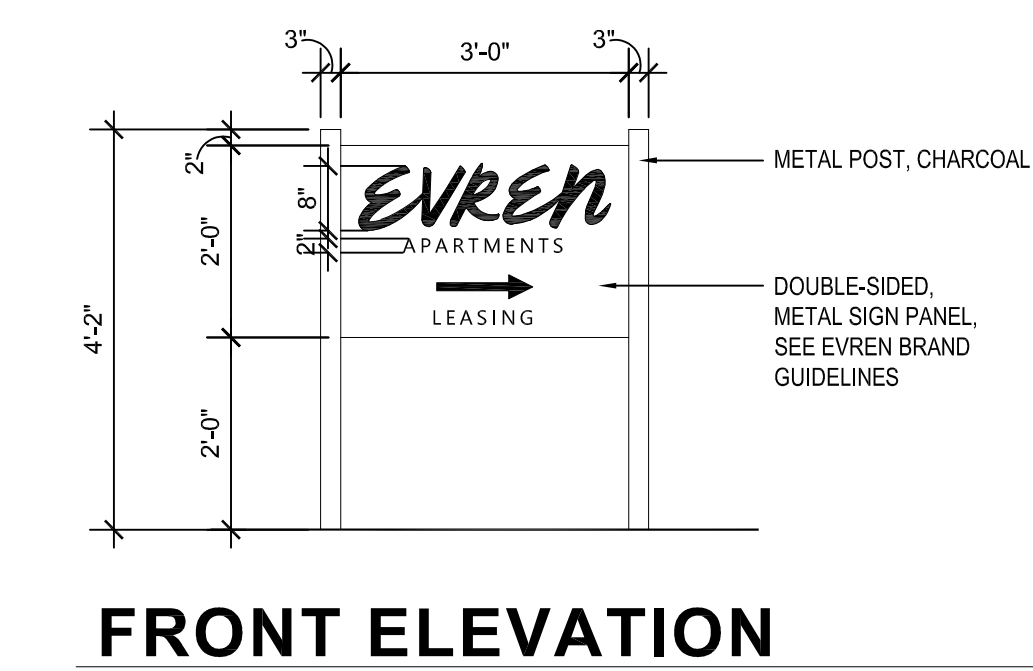
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- ALL WOOD MEMBERS TO BE S4S CEDAR, STAINED PER SPECS., COLOR AS SELECTED BY OWNER



④ DIRECTION SIGNAGE PLAN- NW COMMERCE
1/4" = 1'-0"



③ DIRECTION SIGNAGE PLAN- NE TUDOR
1/4" = 1'-0"

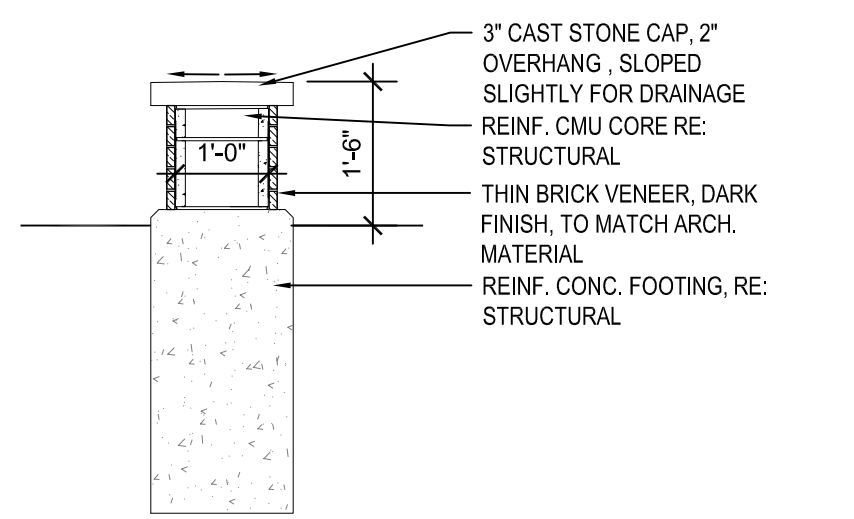


FRONT ELEVATION

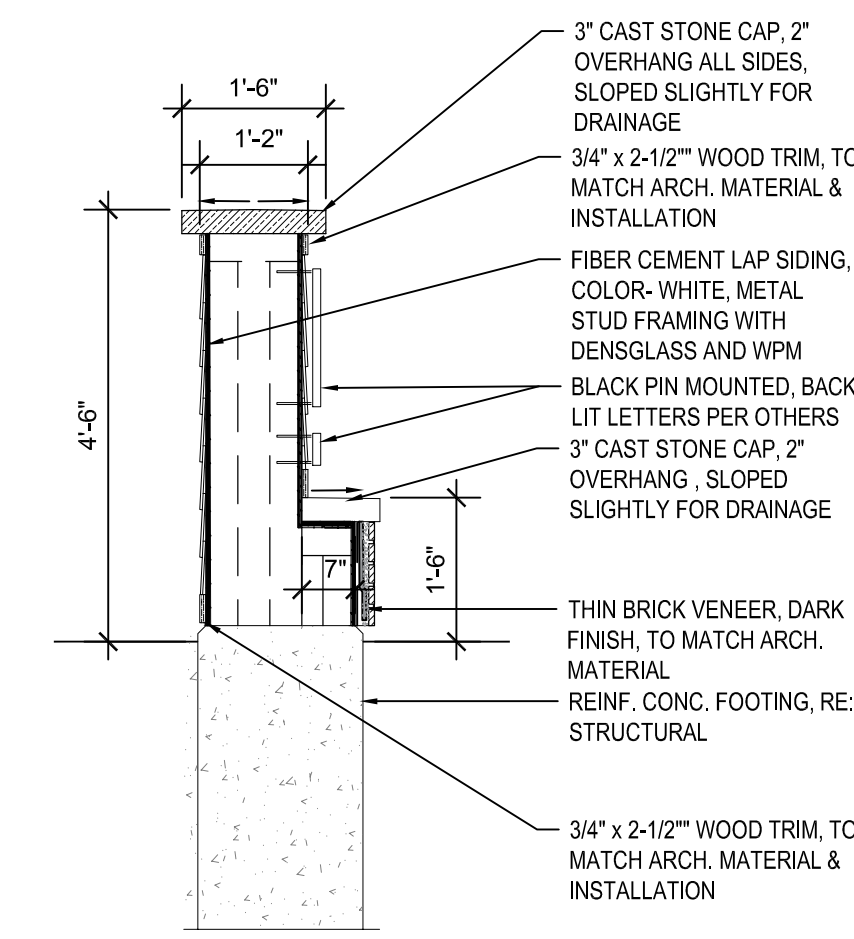
② DIRECTION SIGNAGE
1/2" = 1'-0"



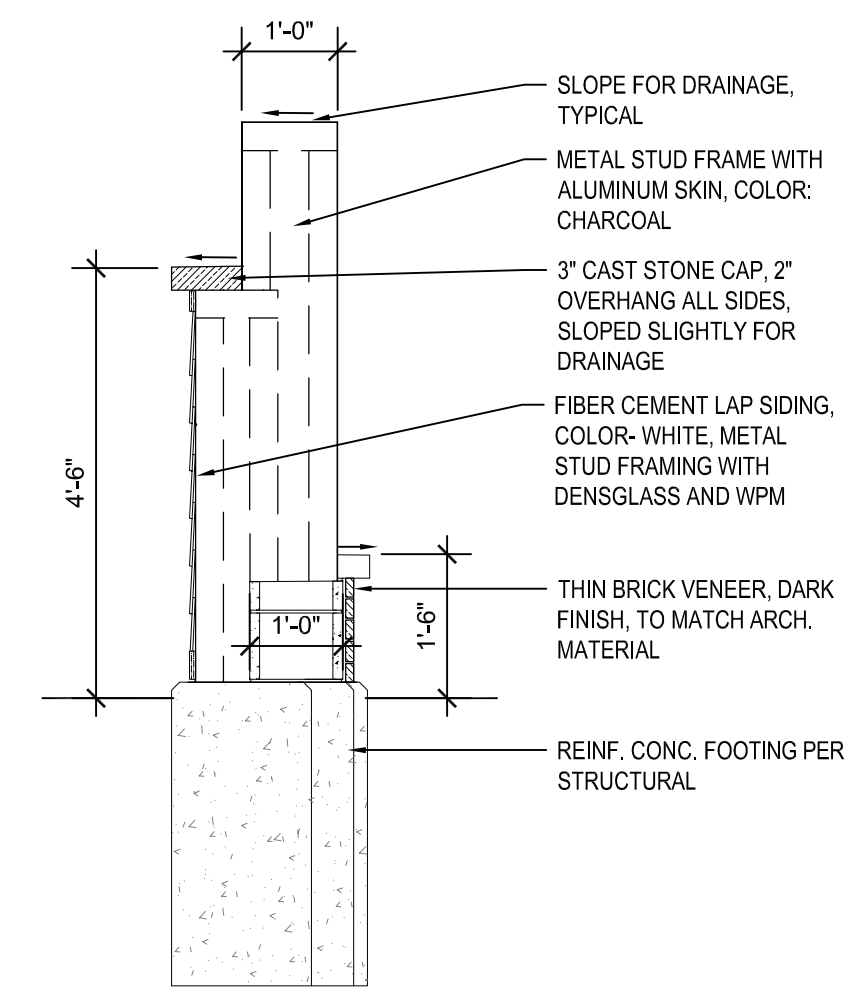
⑤ MONUMENT SIGN PLAN- NW CORNER
1/4" = 1'-0"



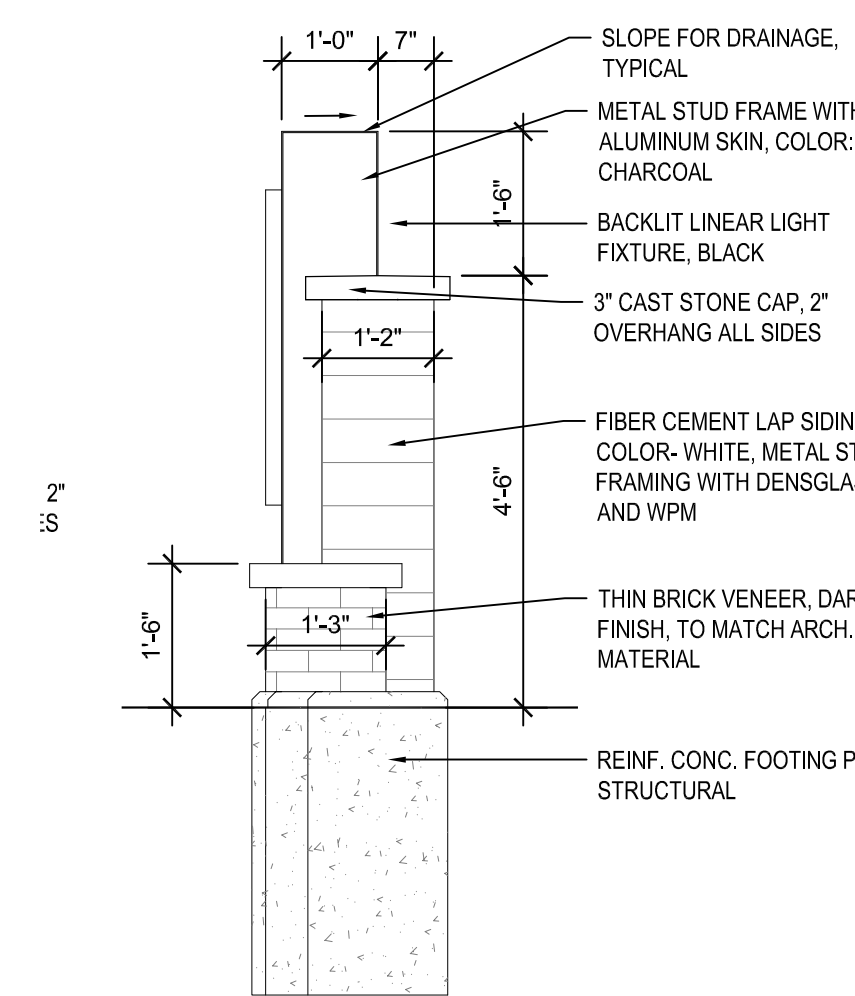
SECTION C



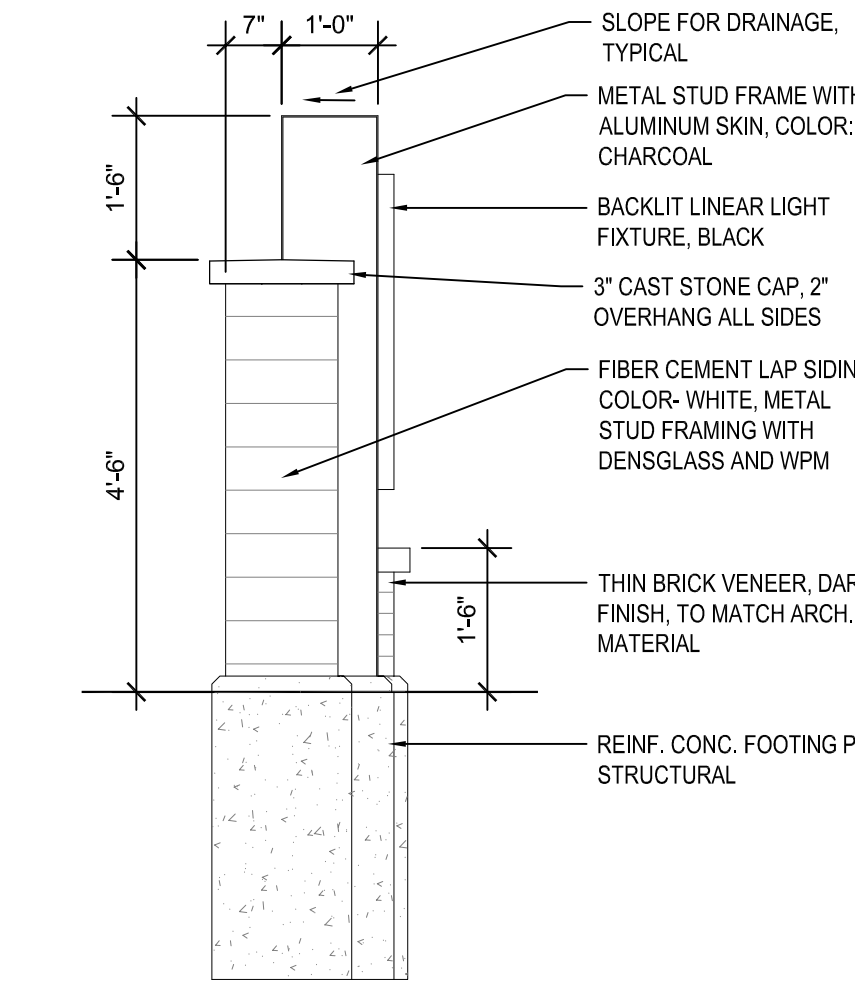
SECTION B



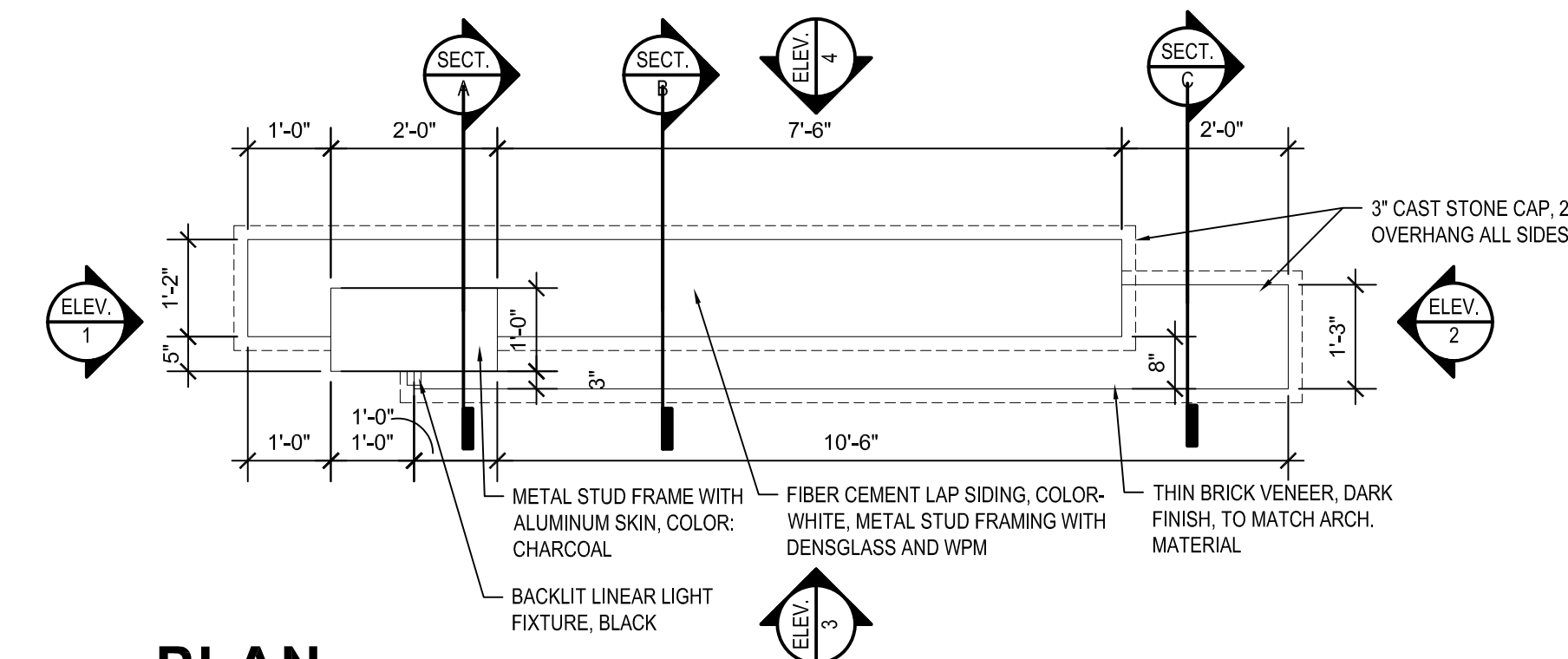
SECTION A



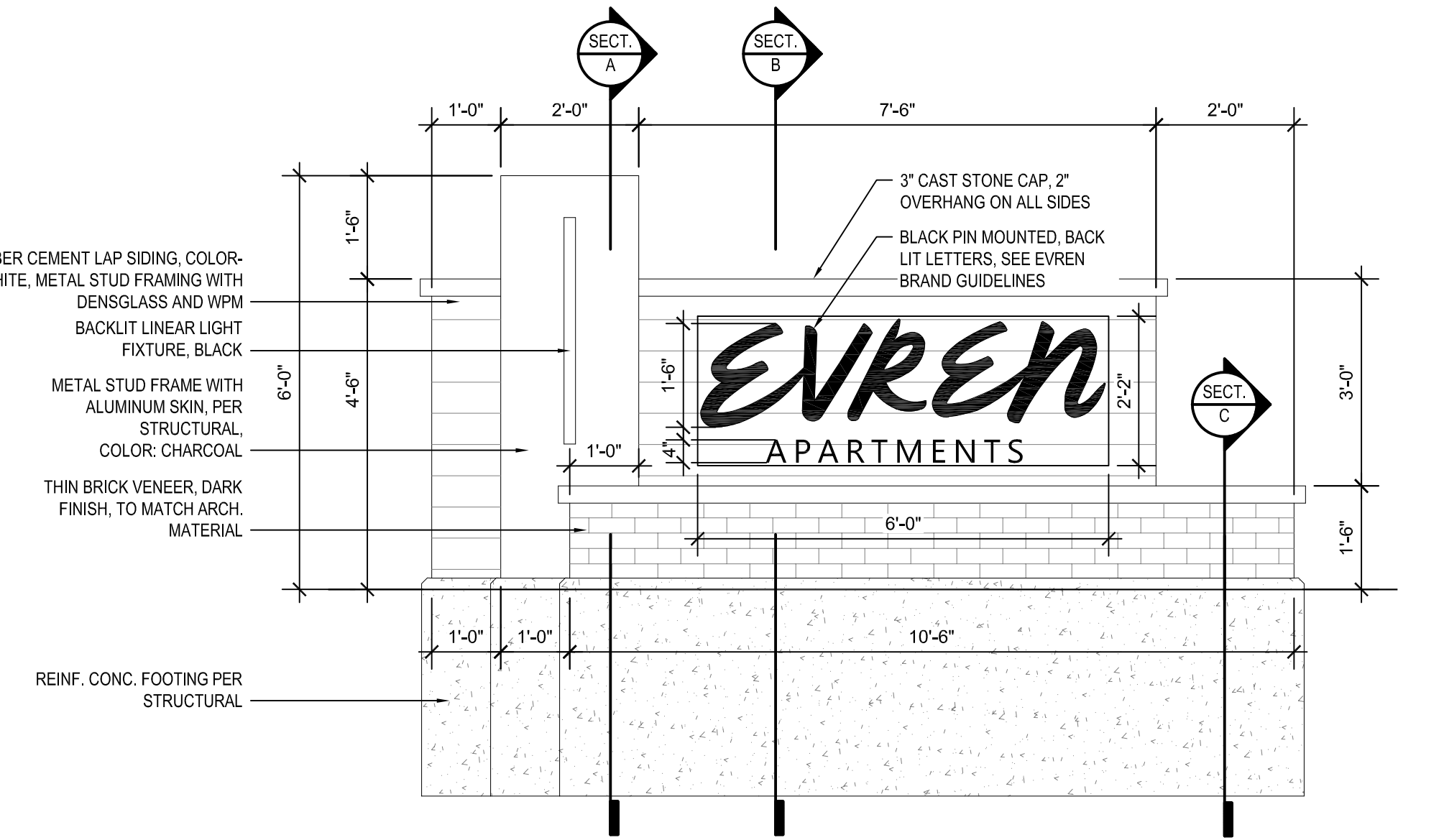
SIDE- ELEVATION 2



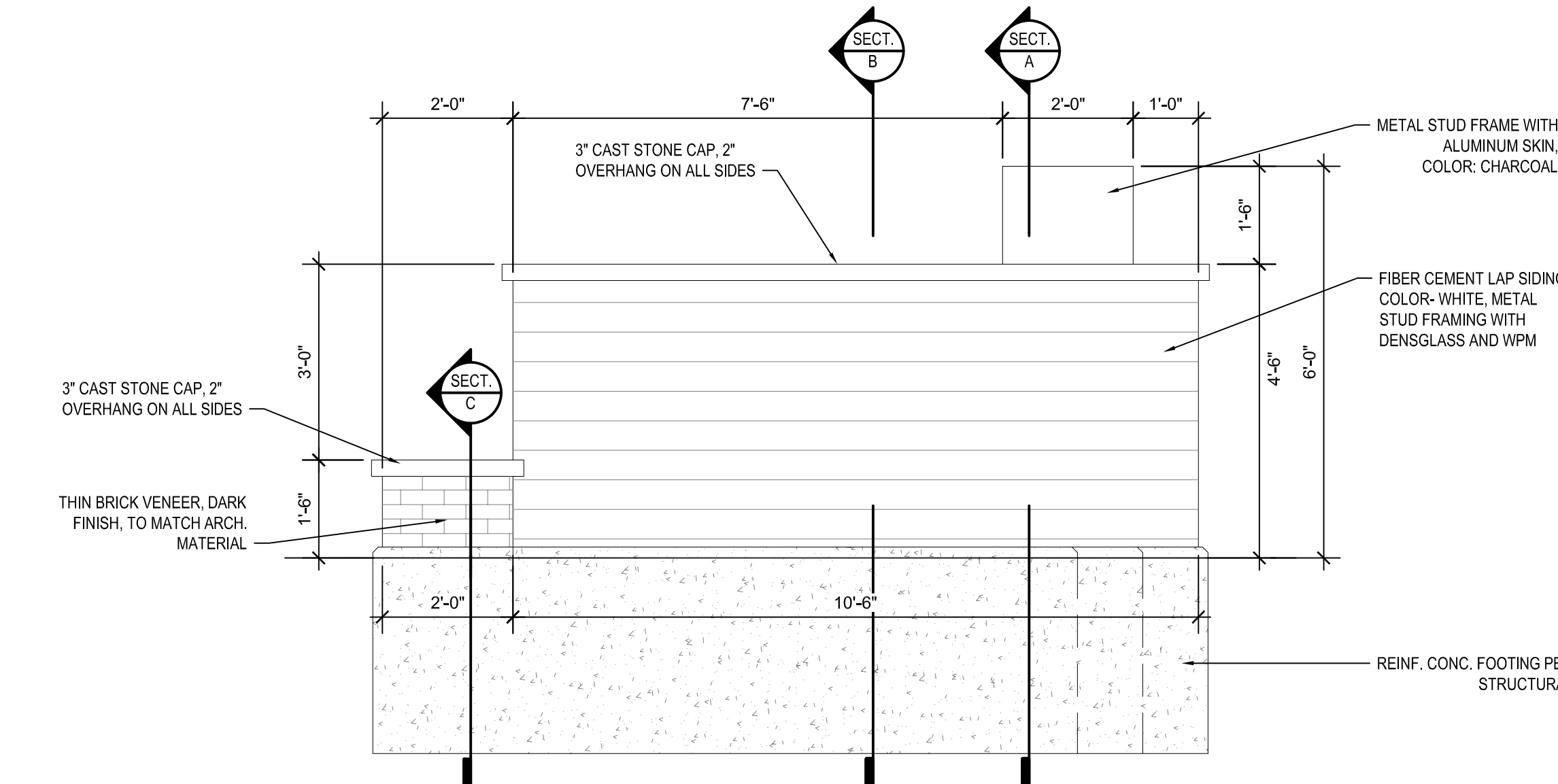
SIDE- ELEVATION 1



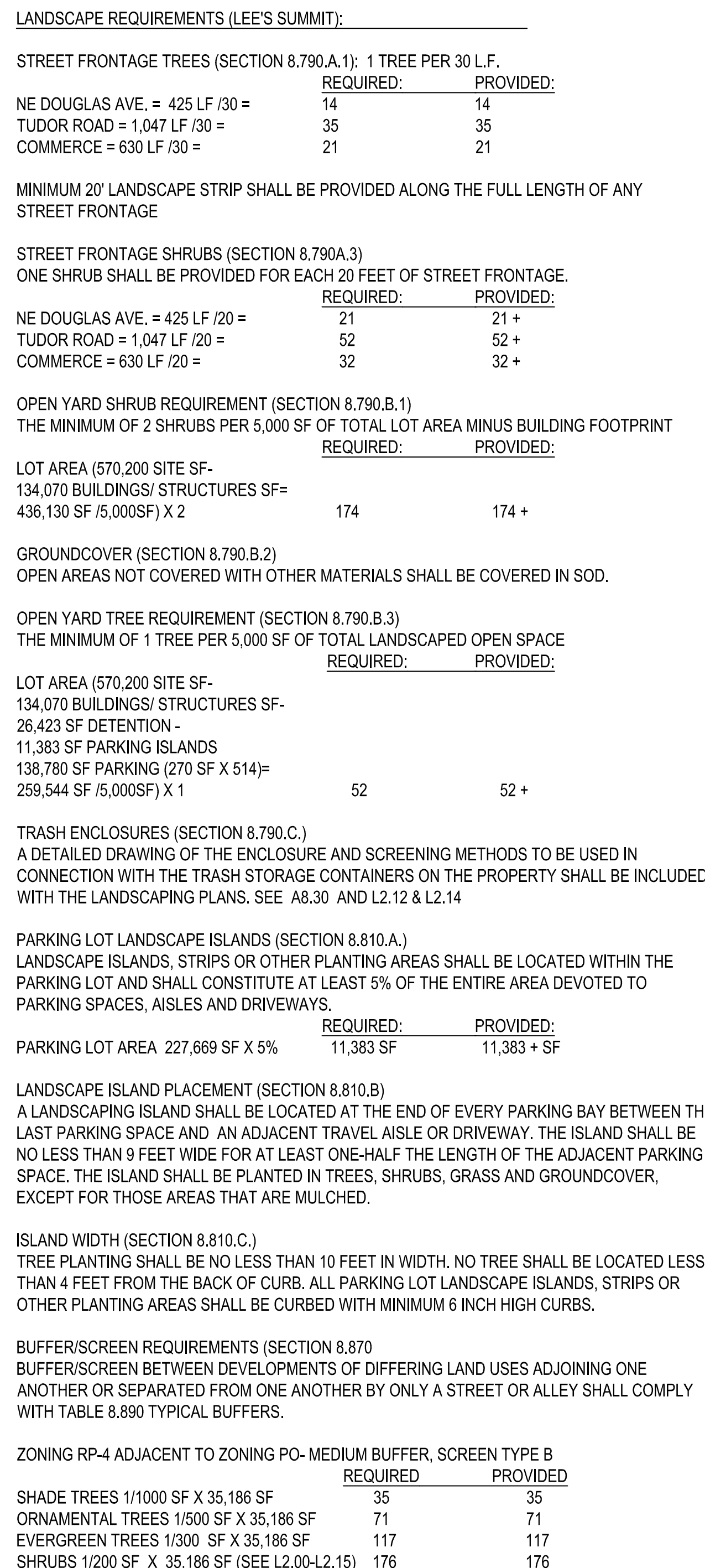
PLAN



FRONT- ELEVATION 3



BACK- ELEVATION 4



1. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. THE BIDDER SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
2. THE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS. EACH PLANT SPECIES MASSING SHALL BE PLACED IN THE FIELD TO UTILIZE GREATEST COVERAGE OF GROUND PLANE. THE FOLLOWING SHALL APPLY FOR INDIVIDUAL PLANTINGS:
 - A. CREEPING GROUNDCOVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - B. ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL TREES AND PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES. SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
5. REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
6. REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
7. REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
8. REFER TO L4.00 SERIES SHEETS FOR BMP/CONSERVATION EASEMENT NATIVE PLANTINGS & LIMITS OF IRRIGATION.
9. IN THE EVENT OF WORK IN OR ON THE JCW SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THEREOF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
10. STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 18" FOR ALL PLANTING BEDS AND REPLACE WITH PLANTING SOIL MIX. REFER TO L3.00 FOR PLANTING SOIL MIX.
11. STEPPING STONES SHALL BE HICKORY GREY FLAGSTONE AS PROVIDED BY SEMCO MATERIALS OR APPROVED EQUAL. 24" SQ. MIN. SIZE, 2-3" THICK.
12. ROCK BEDS SHALL BE SALT & PEPPER COBBLES, 5"-10" SIZE, BY SEMCO DISTRIBUTORS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.

Code	Common Name	Botanical Name	Size	Note
Overstory Trees				
ASM	Armstrong Maple	Acer freemanii 'Armstrong'	2.5' Cal.	B&B
CSO	Crimson Spire Oak	Quercus robur x alba 'Crimschmidt'	2.5' Cal.	B&B
FFM	Fall Fiesta Sugar Maple	Acer saccharum 'Fall Fiesta'	2.5' Cal.	B&B
FEM	Frontier Elm	Ulmus carpinifolia x parvifolia 'Frontier'	2.5' Cal.	B&B
OGM	October Glory Red Maple	Acer rubrum 'October Glory'	2.5' Cal.	B&B
SWO	Swamp White Oak	Quercus bicolor	2.5' Cal.	B&B
ZEL	Zelkova	Zelkova serrata 'Green Vase'	2.5' Cal.	B&B
Evergreen Trees				
BBS	Bacheri Blue Spruce	Picea pungens 'Bacheri'	8' Ht. Mn.	B&B
CBS	Colorado Blue Spruce	Picea pungens	8' Ht. Mn.	B&B
KTJ	Keteleeri Juniper	Juniperus chinensis 'Keteleeri'	8' Ht. Mn.	B&B
RSS	Riverside Spruce	Picea omorika 'Riverside'	8' Ht. Mn.	B&B
SBS	Serbian Spruce	Picea omorika	8' Ht. Mn.	B&B
SPJ	Spartan Juniper	Juniperus chinensis 'Spartan'	8' Ht. Mn.	B&B
Ornamental Trees				
PFC	Prairiefire Crabapple	Malus x 'Prairiefire'	1.5' Cal.	B&B
RVB	Riverbirch	Betula nigra	1.5' Cal.	B&B
SBM	Sweetbay Magnolia	Magnolia virginiana	1.5' Cal.	B&B
SVB	Serviceberry (Multi-Stem)	Amelanchier grandiflora 'Autumn Brilliance'	1.5' Cal.	B&B

Maintenance Strip		
Common Name	Botanical Name	
Buffalo Grass	Buchloe dactyloides	
Prairie Panorama Native Seed Mix by CritSite		
Common Name	Botanical Name	% of Bulk
Little Bluestem	Schizachyrium scoparium	24
Canada Wild Rye	Elymus canadensis	17
Sideoats Grama	Bouteloua curtipendula	24
Indiangrass	Sorghastrum nutans	17
Black-Eyed Susan	Rudbeckia hirta	6
Purple Coneflower	Echinacea purpurea	6
Lance Leaf Coreopsis	Coreopsis lanceolata	6
Agropyron x Triticum	Regreen sterile wheat cover crop 30 bulk lbs / acre Mycorrhizal inoculant: GroLife will be applied at 40 lbs / acre	

NATIVE PLANTINGS AND WATER QUALITY COLLECTION AREAS REQUIRE MONITORING AND MAINTENANCE TO INSURE THEY REMAIN EFFECTIVE AND HAVE A NICE APPEARANCE. UTIL THE MARC BMP MANUAL TO SERVE AS AN ONGOING GUIDE TO KEEP NATIVE AREAS EFFECTIVE IN SERVING THEIR WATER QUALITY FUNCTION AND MAINTAINING AN ACCEPTABLE APPEARANCE.

PLANT MATERIAL

1. PLANTS SHALL BE OBTAINED FROM A COMMERCIAL SOURCE NORMALLY DEALING IN NATIVE PLANT MATERIAL.

2. SPECIES SHALL BE SUPPLIED AS PURE LIVE SEED. THE SEED NATIVE TO EASTERN KANSAS OR WESTERN MISSOURI WILL BE FROM A SUPPLIER WITHIN 100 MILE RADIUS OF THE SITE.

SEEDING RATES

1. NATIVE SEED MIX IS TO BE SPREAD AT A MINIMUM RATE OF 22 LBS / ACRE FOR NATIVE SEED MIX OR 15 LBS / ACRE FOR NATIVE SEED BULK APPLICATIONS.

2. HIGHER SEEDING RATES WILL HELP CONTROL WEED INTRUSION.

3. BUFFALO GRASS AREA FOR MAINTENANCE STRIPS IS TO BE SEED AT A RATE OF 23 LBS / 1000 SF.

3.1. INTERSTRIP W/ EROSION CONTROL, BLANKET BY CRITISE (OR APPROVED EQUAL) TO BE SEED FOR EROSION CONTROL IN NATIVE SEED AREA. ANY STRAW, HAY OR CURLEX BLANKET USED MUST BE CLEAN AND SEED-FREE. IF HAY OR STRAW IS USED, IT MUST BE CRUMPED IN.

4. ALL LEGUMES WILL BE INOCULATED WITH RHIZOBIUM AT THE PROPER TIME BEFORE PLANTING.

5. SEEDING CAN BE DONE BETWEEN THE MONTHS OF NOVEMBER AND JULY. DO NOT SEED AFTER JULY 15TH.

6. SEEDING MAY BE ACCOMPLISHED WITH A DRILL, NO-TILL PLANTER, SEED SPREADER, BROADCASTING, OR DEPTH OF SEED.

7. SCARIFY SOIL TO A MINIMUM OF 2" BEFORE SEEDING.

1. WATER 2-3 TIMES PER WEEK FOR 4-6 WEEKS, USING A TOTAL OF 1" OF WATER PER WEEK AS NEEDED UNTIL PLANT MATERIAL IS FULLY ESTABLISHED. THEN WATER AS A SUPPLEMENTAL SOURCE ONCE A WEEK THEREAFTER
2. DURING THE SECOND AND THIRD YEARS, WATER PLANTINGS AS NECESSARY DURING DRY PERIODS.

FERTILIZING

1. FERTILIZER SHOULD NOT BE APPLIED EITHER IN OR AROUND THE BMP'S ESPECIALLY WHERE DRAINAGE WILL RUN OVER FERTILIZED AREAS INTO THE BASIN.
2. WATER QUALITY AREAS DO NOT NEED FERTILIZER WHICH WOULD ONLY PROMOTE WEED GROWTH. HOWEVER, IN POTENTIALLY, TALL SPINDLY PLANTS WHICH WILL BE STRUCTURALLY WEAKENED.

1. FINAL ACCEPTANCE OF THE WORK WILL BE DETERMINED BY A SITE VISIT BY THE LANDSCAPE ARCHITECT OF THE NATIVE PLANTING AREAS AT THE END OF THE ONE YEAR PERIOD FROM INITIAL ACCEPTANCE WHEN PLANTS HAVE STARTED ACTIVELY GROWING IN THEIR SECOND SEASON OF GROWTH.

2. IF THE SITE VISIT INSPECTION DOES NOT MEET THE MINIMUM ACCEPTABLE STANDARD AS DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT, THE AREA SHALL BE REPLANTED AS NECESSARY TO OBTAIN THE DESIRED RESULTS.

A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
● 09.16.24 PERMIT SET

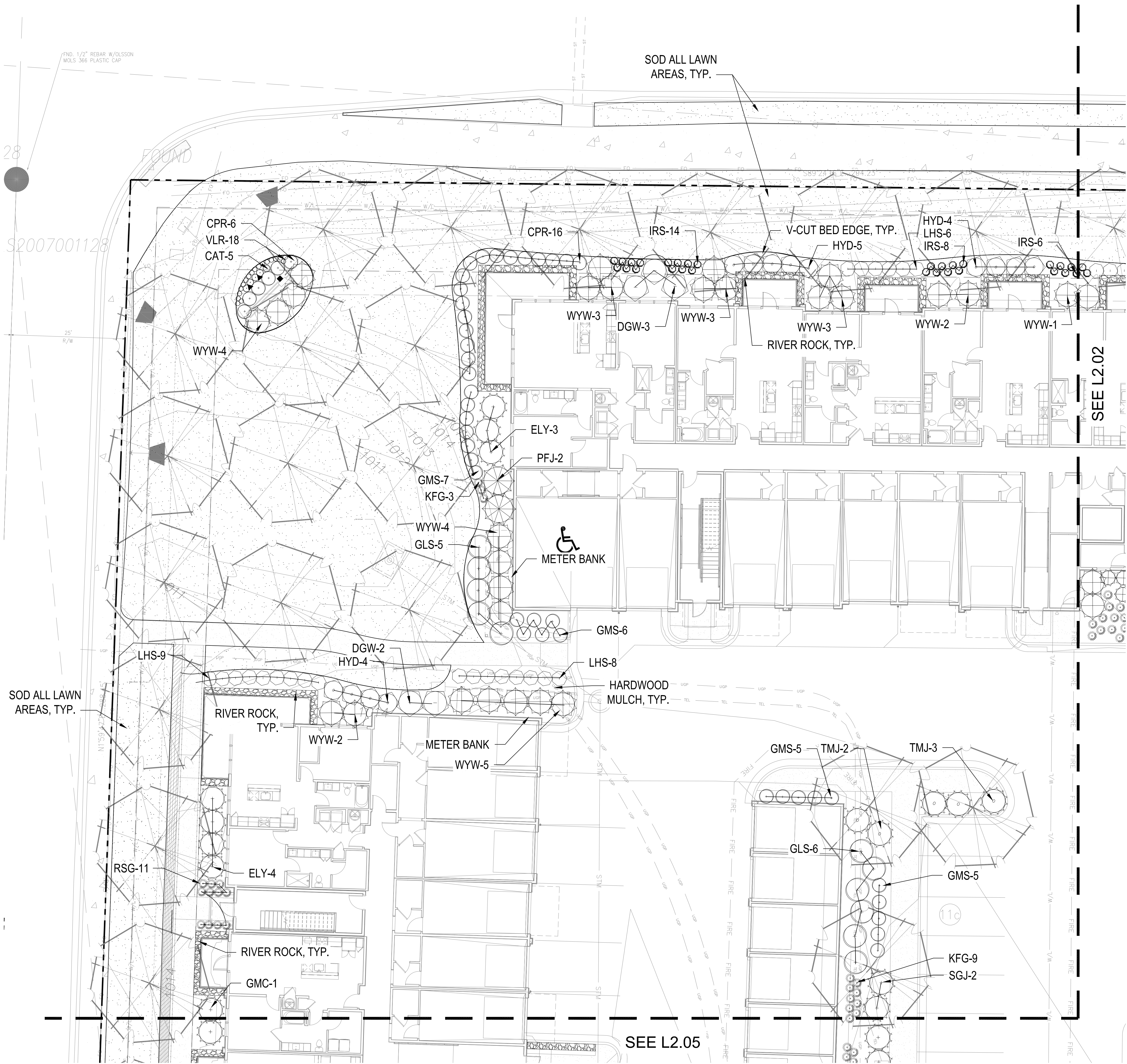
△ REVISIONS

JOB NO. 720522 DATE 09.16.2024
DRAWN BY SLW / KRM
PERMIT SET

SHEET NAME
TREE PLANTING PLAN

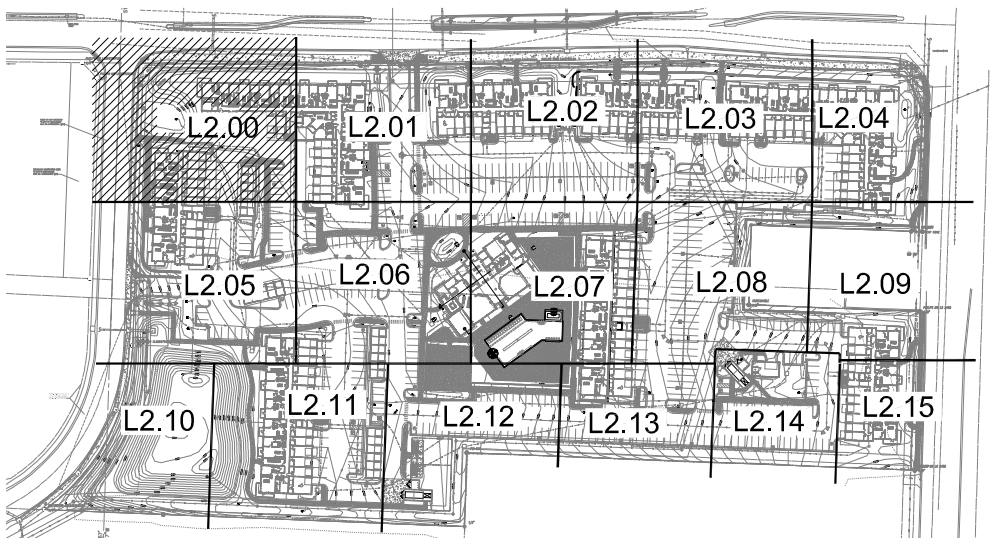
SHEET NO. _____

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SHRUB PLANTING PLAN

1" = 10'-0"



KEY PLAN

NTS

PLANT LIST

Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Boy Holly	Ilex x meserveae 'Mesdob'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Mesog'	5 Gal
DTY	David's Yew	Taxus x media 'Densiformis'	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glauca globosa'	5 Gal
GGB	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal
GMC	Gold Mop Cypress	Chamaecyparis pisifera 'Yellow Thread Branch'	5 Gal
PFJ	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SJG	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal
TMJ	Tam Juniper	Juniperus sabina 'Amariscolosa'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Sprite Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Ward's Yew	Taxus x media 'Ward'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigg Dogwood	Cornus alba 'Ivory Halo'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Nellie'	2 Gal
ESH	Endless Summer Hydrangea	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmound Spirea	Spiraea japonica 'Goldmound'	2 Gal
HYD	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	2 Gal
KNR	Knockout Rose	Rosa knockout	2 Gal
LHS	Little Henry Sweetspire	Sea virginica 'Little Henry'	2 Gal
LPS	Little Princess Spirea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spirea	Spiraea japonica 'Magic Carpet'	2 Gal
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Newwoodone'	2 Gal
WVS	Fire Vine Weigela	Weigela florida 'Brannwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faassena 'Walter's Low'	1 Gal
DAY	Royal Flushes Daylily	Hemerocallis 'Royal Flush'	1 Gal
DSY	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
HDS	Sun & Substance Hosta	Hosta 'Sun & Substance'	1 Gal
IRS	Blue Flag Iris	Iris virginica x 'altreva'	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFG	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NWG	Northwind Switch Grass	Panicum virgatum 'Northwind'	1 Gal
RSG	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLR	Variegated Linopoe	Linopoe muscari variegata	1 Gal

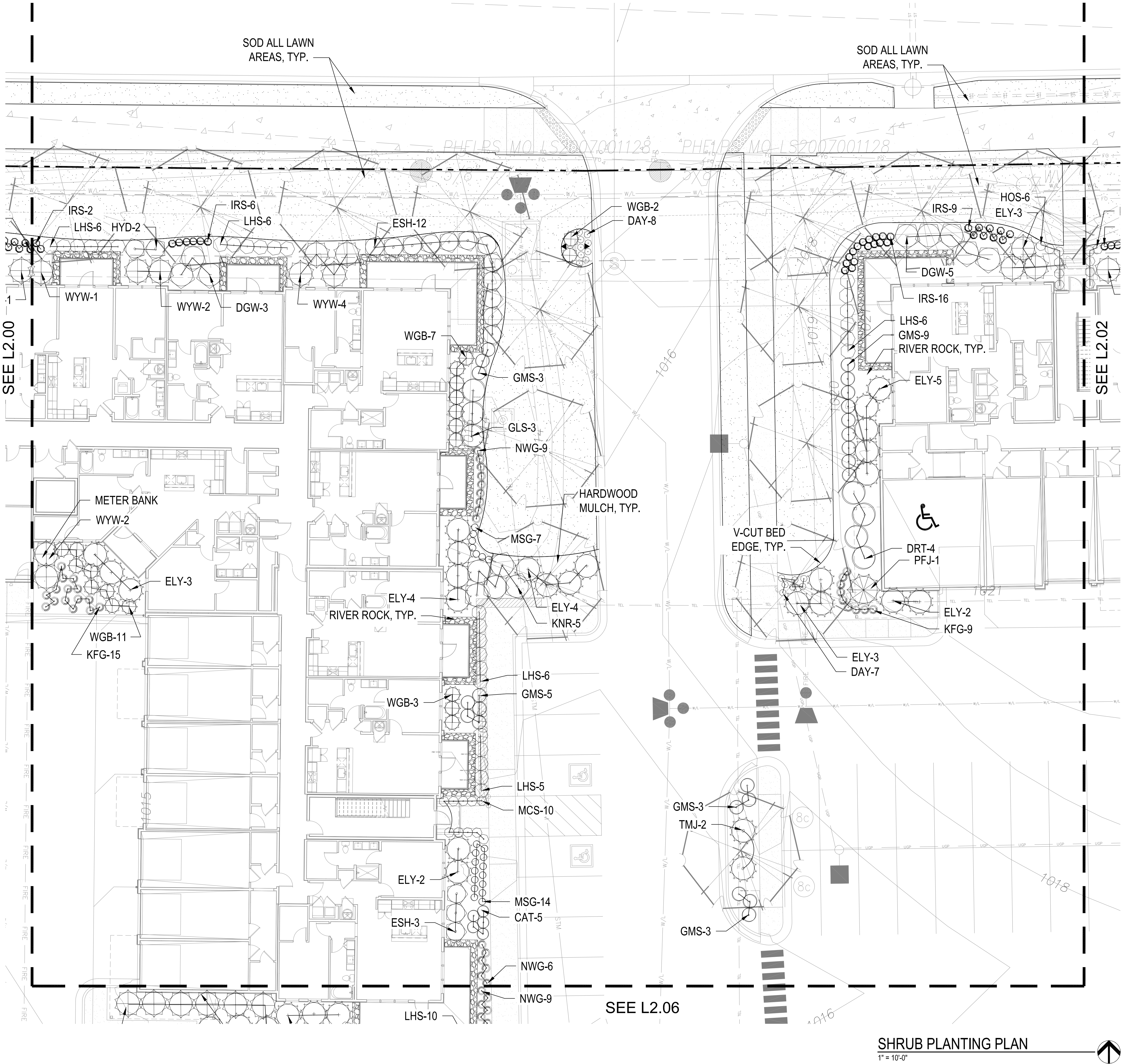
GENERAL NOTES:

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 - B. ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES. SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
5. REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
6. REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
7. REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
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9. STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 6" FOR ALL PLANTING BEDS AND AMEND WITH PLANTING SOIL MIX. AREAS WITH MORE THAN 18" OF GRAVEL IN PLANT BEDS SHALL BE EXCAVATED TO 18" OR 8" BELOW ROOT BALLS/BOTTOM OF CONTAINER. REFER TO L3.00 FOR PLANTING SOIL MIX.
10. ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
12. FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

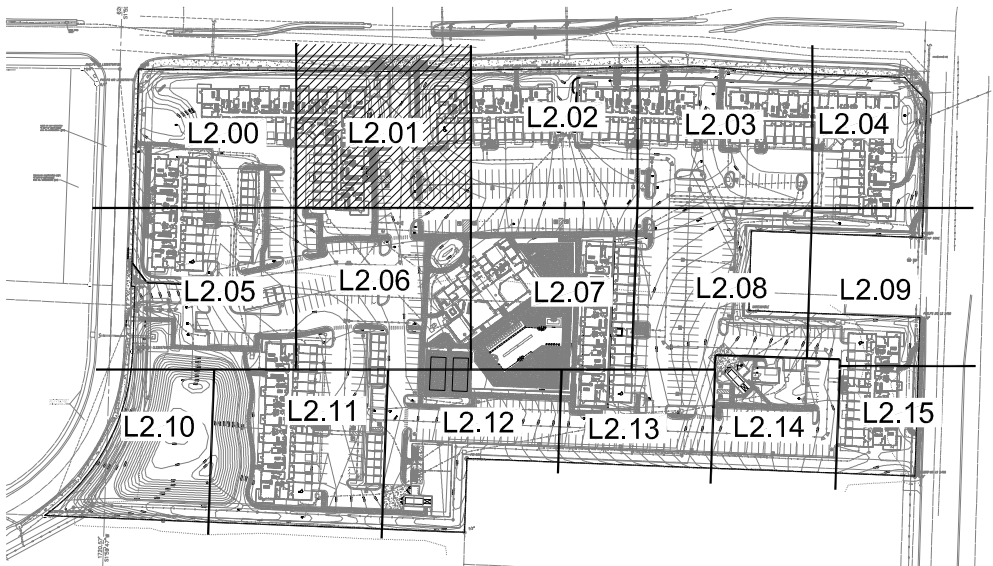
SEEDING & SOD NOTES:

1. REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOD MATERIAL.
2. REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.2 FOR ADDITIONAL GRADING AND TILLAGE GUIDELINES & PROCEDURES.
3. REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
4. REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
5. SEEDING OPTIONS:
 - 5.1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES.
 - 5.2. SOWING - REFER TO PROJECT SPECIFICATIONS SECTION 3.2, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
6. SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (15:1) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
7. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.





SHRUB PLANTING PLAN
1" = 10'-0"



KEY PLAN

NTS

PLANT LIST

Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Boy Holly	Ilex x meserveae 'Meador'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Meador'	5 Gal
DYF	Desfontainia Yew	Taxus x media 'Desfontainia'	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal
GGB	Gold Mop Cypress	Chamaecyparis pisifera 'Yellow Thread Branch'	5 Gal
GMC	Gold Mop Cypress	Chamaecyparis pisifera 'Yellow Thread Branch'	5 Gal
PRB	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SJG	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal
TMJ	Tam Juniper	Juniperus chinensis 'Tamarindus'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Sprite Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Ward's Yew	Taxus x media 'Ward'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigged Dogwood	Cornus alba 'Vivid Haze'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Nelsky'	2 Gal
ESH	Endless Summer Hydrangea	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmund Spirea	Spiraea japonica 'Goldmund'	2 Gal
HYD	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	2 Gal
KNR	Knockout Rose	Rosa Knockout	2 Gal
LHS	Little Henry Spiraea	Spiraea japonica 'Little Henry'	2 Gal
LPS	Little Princess Spirea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spirea	Spiraea japonica 'Magic Carpet'	2 Gal
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Lavender Chiffon'	2 Gal
WIG	Fire Wine Wisteria	Wisteria floribunda 'Strawwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faasseni 'Walker's Low'	1 Gal
DAY	Rosy Returns Daylily	Hemerocallis 'Rosy Returns'	1 Gal
DYV	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
RSB	Rose of Sharon & Substance	Hibiscus syriacus 'Substance'	1 Gal
RS	Blue Flag Iris	Iris virginica x shrubae	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFG	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLO	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NWG	Northwest Switch Grass	Panicum virgatum 'Northwest'	1 Gal
RSB	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLG	Variagated Liriope	Liriope muscari variegata	1 Gal

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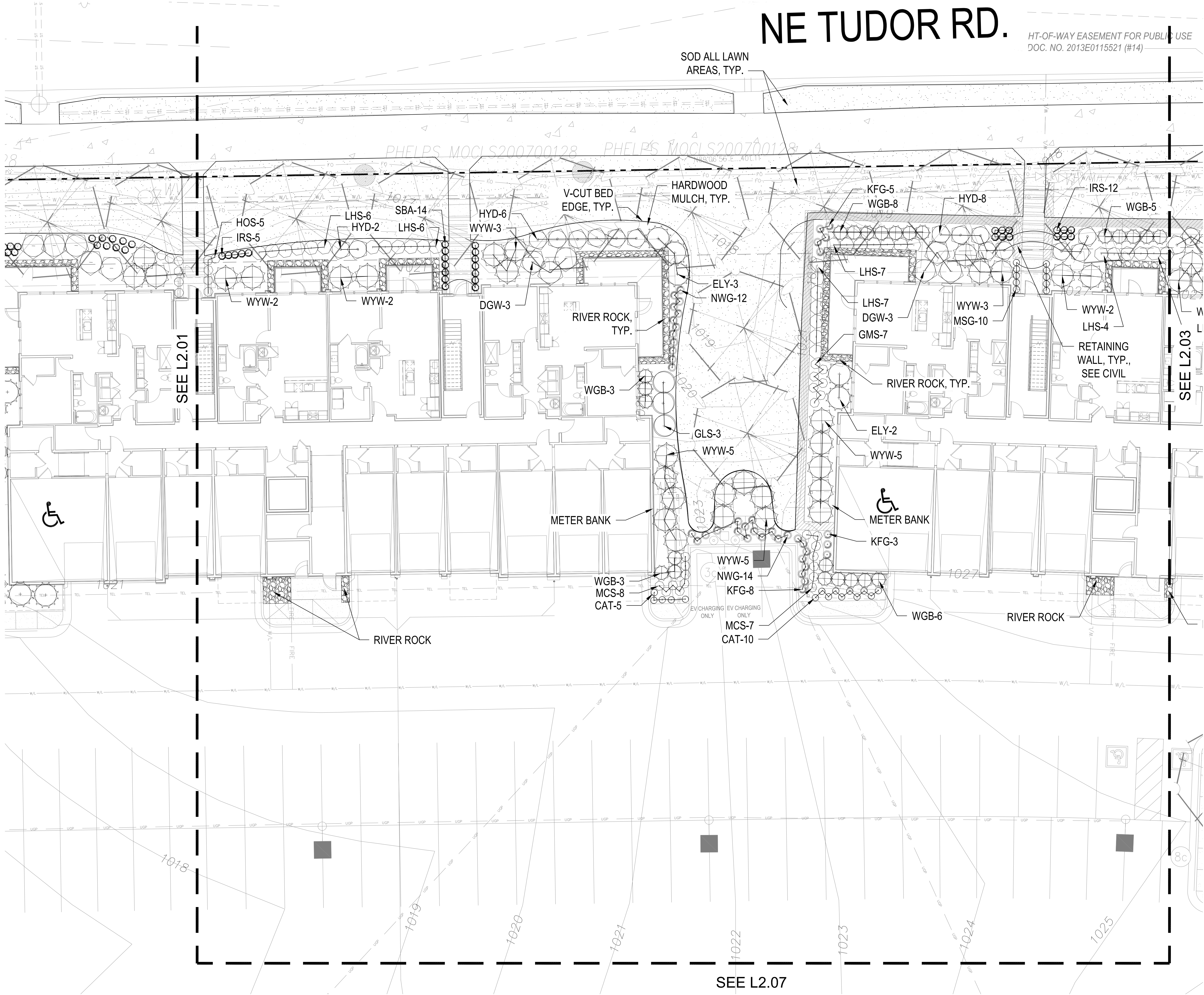
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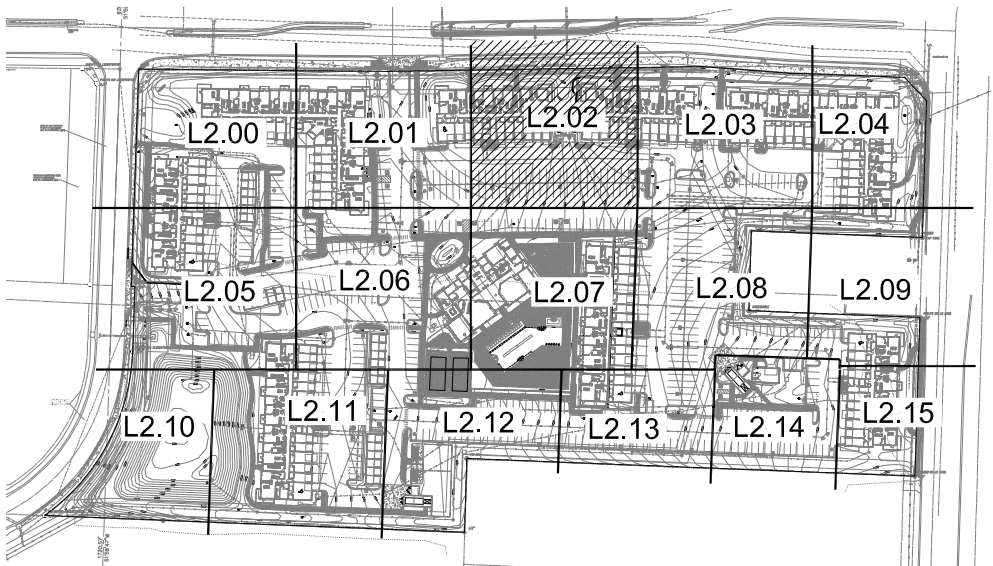
NE TUDOR RD.

HT-OF-WAY EASEMENT FOR PUBLIC USE
DOC. NO. 2013E0115521 (#14)



SHRUB PLANTING PLAN

1" = 10'-0"



KEY PLAN

NTS

PLANT LIST

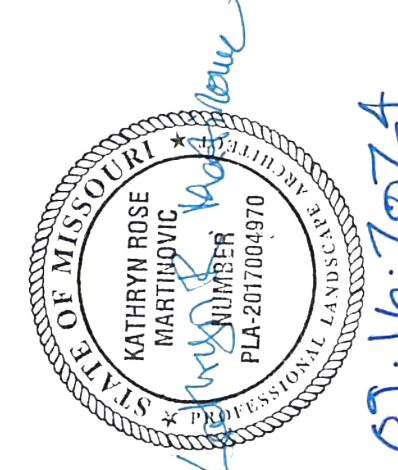
Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Boy Holly	Ilex x meserveae 'Meadob'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Meadob'	5 Gal
DPT	Densiformis Yew	Taxus x media 'Densiformis'	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glaucia globosa'	5 Gal
GGB	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal
GMC	Gold Mop Cypress	Chamaecyparis pisifera 'Yellow Thread Branch'	5 Gal
PFJ	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Princess of Wales Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SJG	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal
TML	Tam Juniper	Juniperus sabina 'Tamariscifolia'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Sprite Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Wardii Yew	Taxus x media 'Wardii'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigged Dogwood	Cornus alba 'Horty Halo'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Kelsey'	2 Gal
EBH	Endless Summer Hydrangea	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmound Spirea	Spiraea japonica 'Goldmound'	2 Gal
HYD	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	2 Gal
KNR	Knockout Rose	Rosa knockout	2 Gal
LHS	Little Henry Sweetgum	Thuja virginica 'Little Henry'	2 Gal
LPS	Little Prince Spirea	Spiraea japonica 'Little Prince'	2 Gal
MCS	Magic Carpet Spirea	Spiraea japonica 'Magic Carpet'	2 Gal
RDS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Netwoodone'	2 Gal
WVC	Wine Vine Weigela	Weigela florida 'Bramwell'	2 Gal
Perennials			
CAT	Calamin	Nepeta x faassenii 'Walker's Low'	1 Gal
DAN	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
DSY	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
HOS	Sum & Substance Hosta	Hosta 'Sum & Substance'	1 Gal
RS	Blue Flag Iris	Iris virginica x alba 'Blue'	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFG	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NMG	Northern Switch Grass	Panicum argatum 'Northwind'	1 Gal
RSG	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLR	Variegated Liriope	Liriope muscari variegata	1 Gal

GENERAL NOTES:

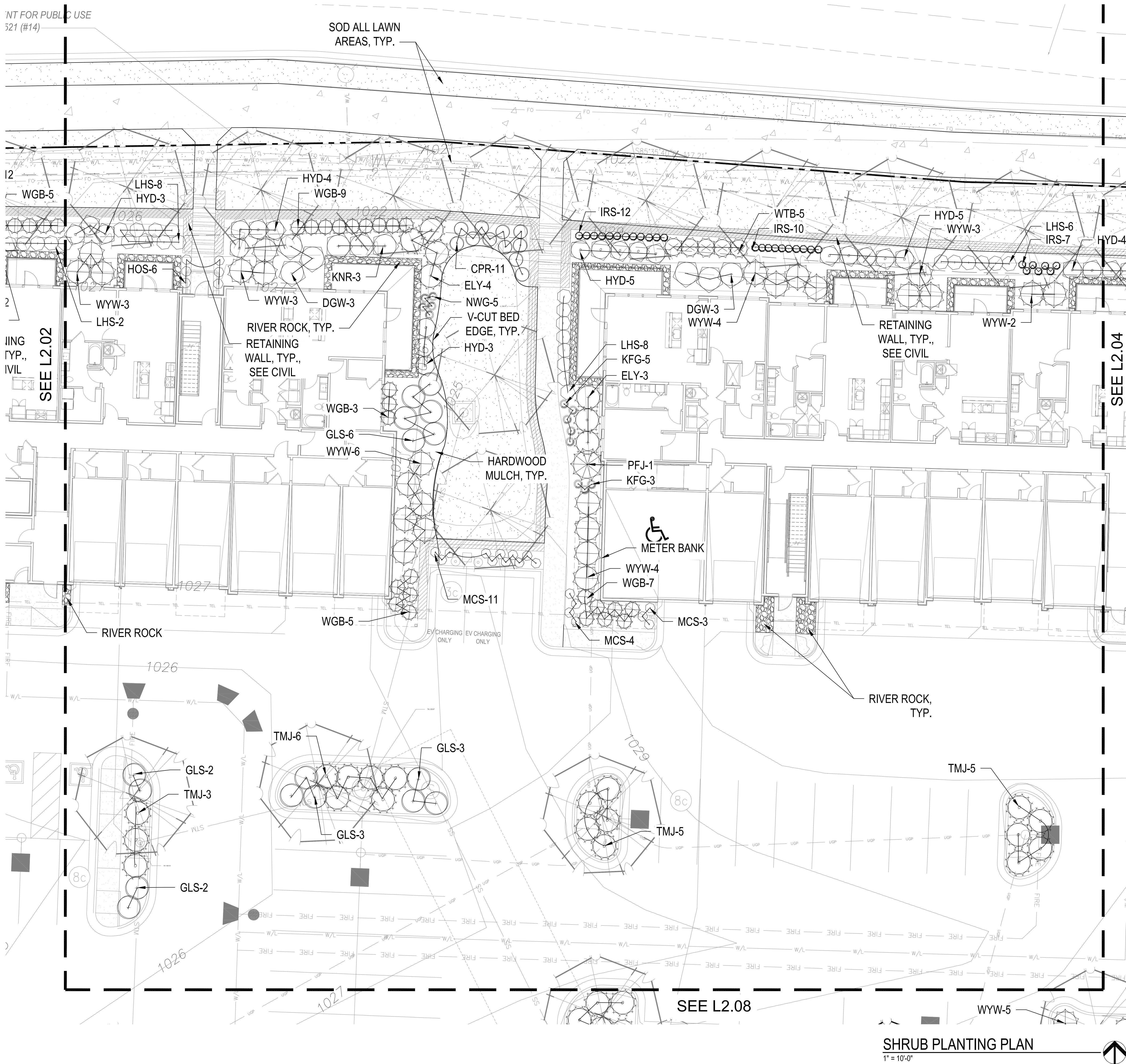
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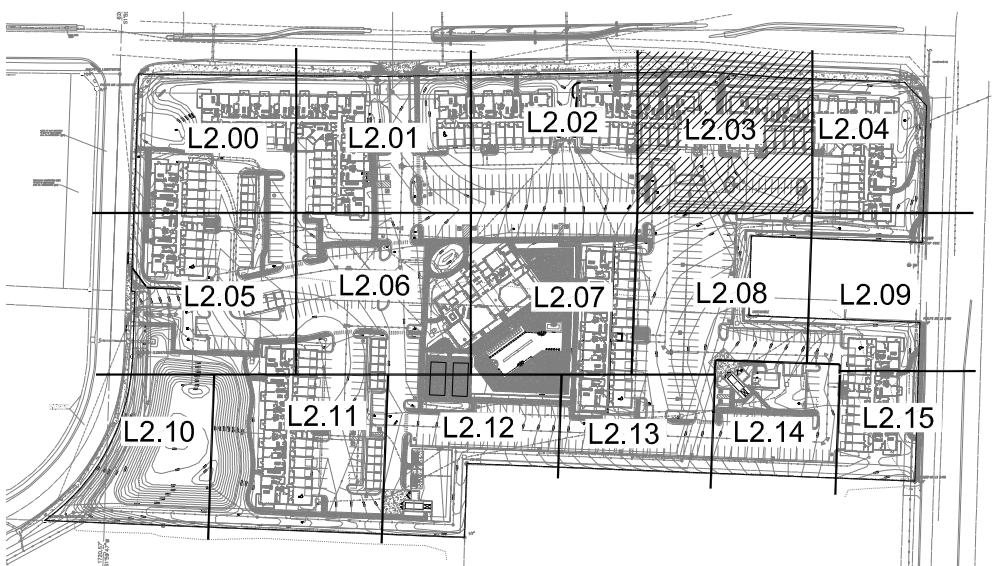
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NOT FOR PUBLIC USE
521 (#14)



SHRUB PLANTING PLAN
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KEY PLAN
NTS

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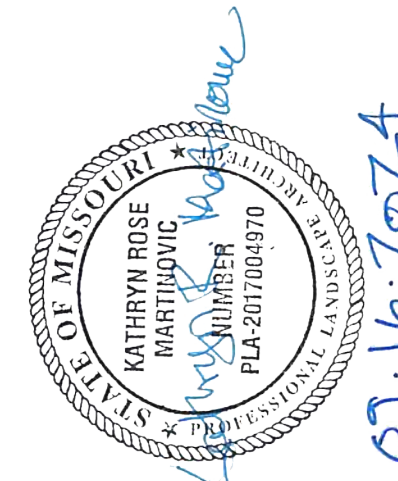
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CGH	China Girl Holly	Ilex x meserveae 'Mesog'	5 Gal
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A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

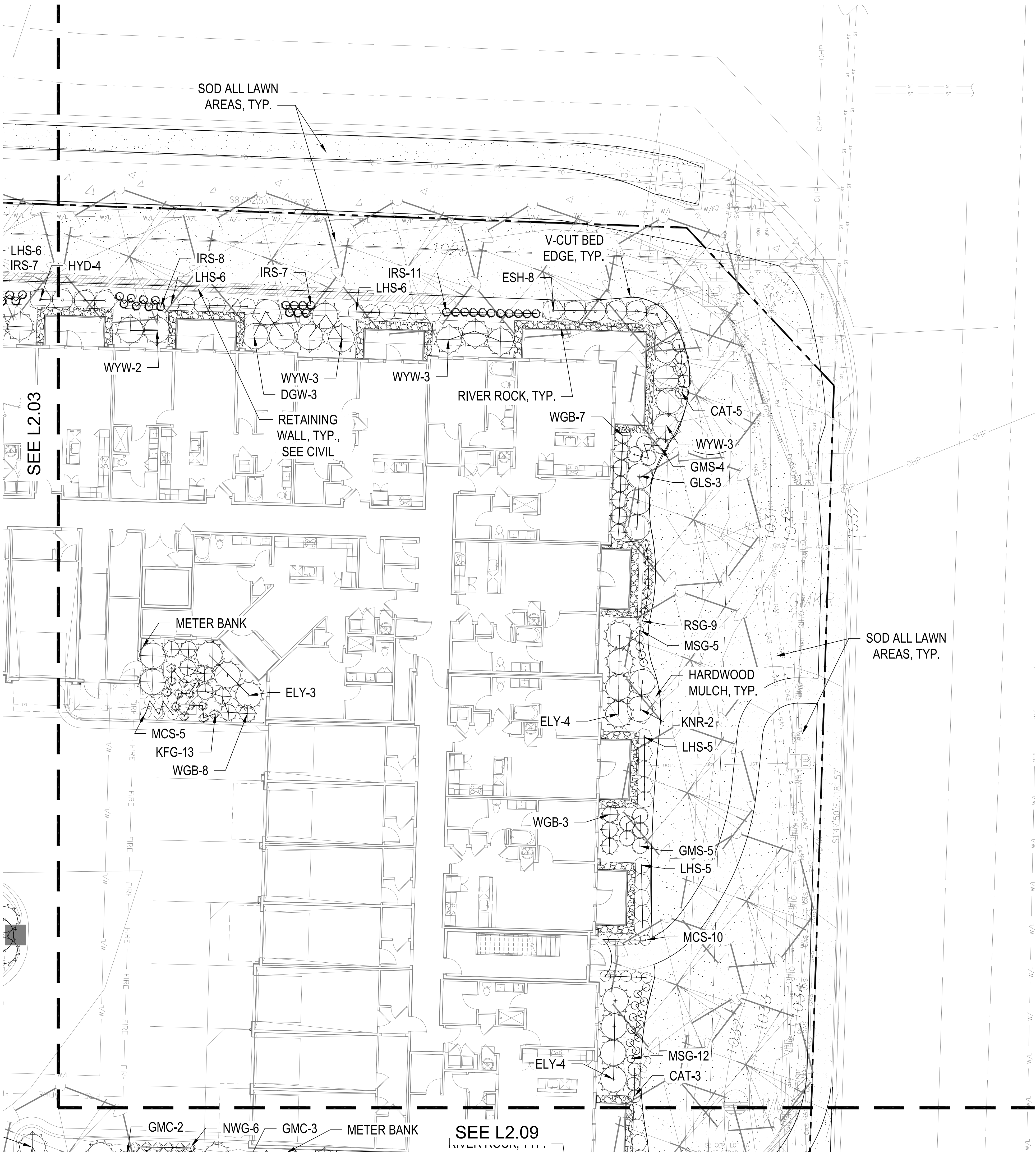
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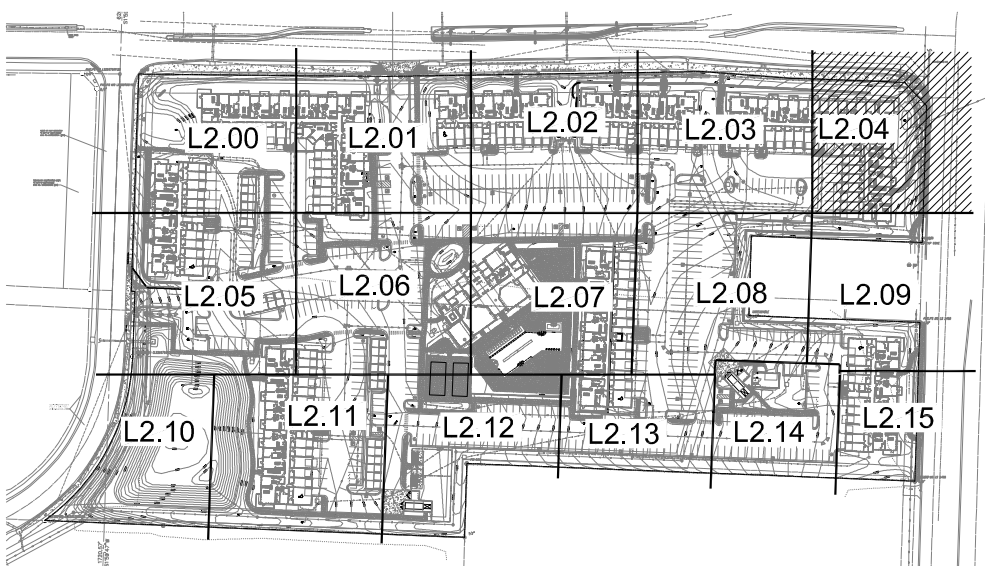
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SHRUB PLANTING
PLAN
SHEET NO.

L2.03

DATE
09.16.2024



SHRUB PLANTING PLAN
1" = 10'-0"



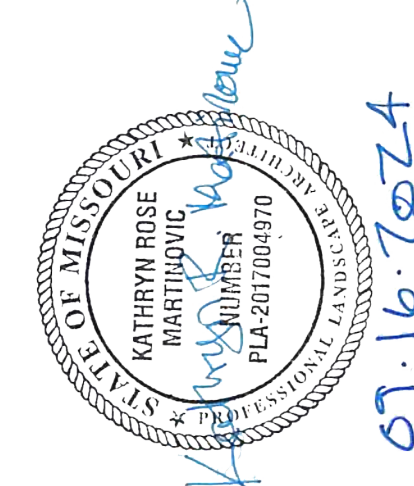
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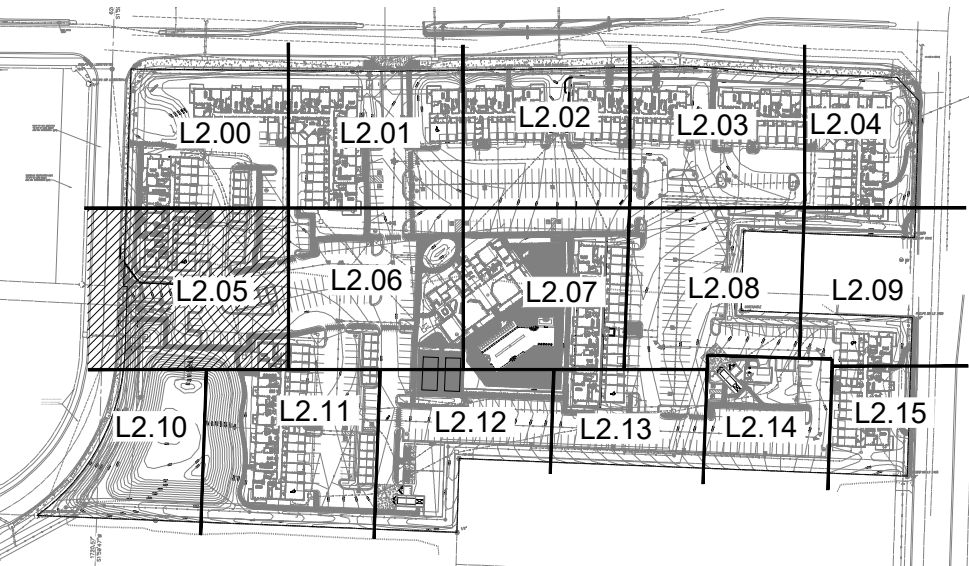
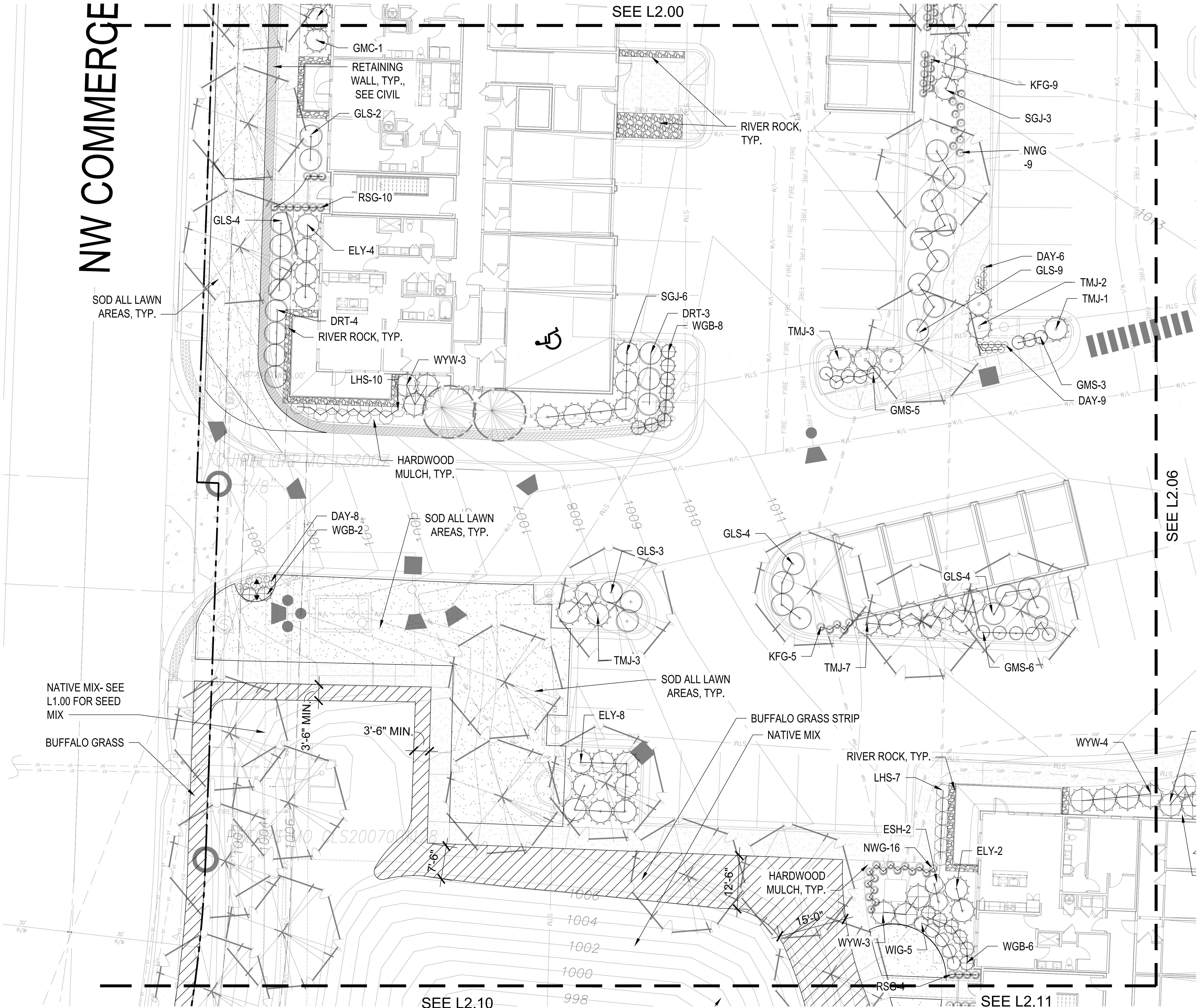
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 2. THE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS. EACH PLANT SPECIES MASSING SHALL BE PLACED IN THE FIELD TO UTILIZE GREATEST COVERAGE OF GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - A. CREEPING GROUND COVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - B. ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
 3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES, SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 4. ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
 5. REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
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 8. IN THE EVENT OF WORK IN OR ON THE JCW SANITARY MAIN. ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
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 11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
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- SEEDING & SOD NOTES:
1. REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOD MATERIAL.
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 4. REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
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 6. SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (15%) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
 7. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.



NW COMMERCIAL



KEY PLAN
NTS

PLANT LIST

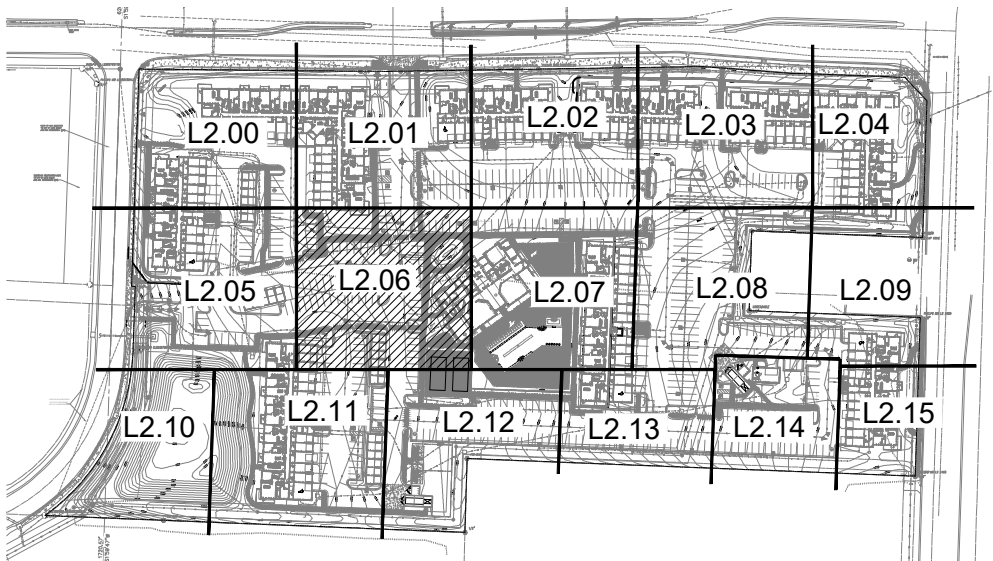
Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Girl Holly	Ilex x meserveae 'Mecdo'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Mecdo'	5 Gal
QPY	Quercus parvifolia	Quercus parvifolia	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glaucobea'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glaucobea'	5 Gal
GMC	Gold Map Cypress	Chamaecyparis platensis 'Yellow Thread Branch'	5 Gal
PFJ	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SGJ	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal
TMJ	Tam Juniper	Juniperus sabina 'Tamariscifolia'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Sprite Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Ward's Yew	Taxus x media 'Ward'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigged Dogwood	Cornus alba 'Horty Halo'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Kobold'	2 Gal
ESB	Endless Summer Hydrangea	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmound Spirea	Spiraea japonica 'Goldmound'	2 Gal
GMS	Goldmound Spirea	Spiraea japonica 'Goldmound'	2 Gal
KNR	Knockout Rose	Rosa 'Knockout'	2 Gal
LHS	Little Henry Sweetgum	Rea virginica 'Little Henry'	2 Gal
LPS	Little Princess Spirea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spirea	Spiraea japonica 'Magic Carpet'	2 Gal
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Notwooden'	2 Gal
WVS	Fire Wine Weigela	Weigela florida 'Strawwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faasseni 'Walker's Low'	1 Gal
DAT	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
HOS	Hosta	Hosta 'Sum & Substance'	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFG	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NWG	Northwind Switch Grass	Panicum virgatum 'Northwind'	1 Gal
RSG	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLR	Variegated Liriope	Liriope muscari variegata	1 Gal

- GENERAL NOTES:
1. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. HE SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
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 11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
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 4. REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
 5. SEEDING OPTIONS:
 - 5.1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES.
 - 5.2. SOWING - REFER TO PROJECT SPECIFICATIONS SECTION 3.2 AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
 6. SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (15%) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
 7. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.

SHRUB PLANTING PLAN
1" = 10'-0"





NTS

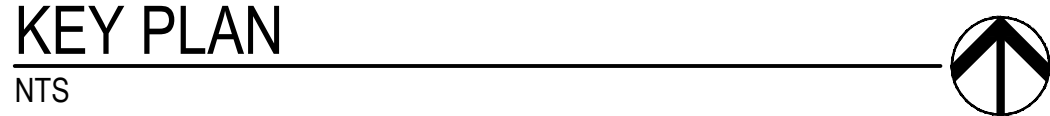
Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CFH	China Holly	<i>Ilex x meserveae 'Desfroidi'</i>	5 Gal.
CRH	China Carli Holly	<i>Ilex x meserveae 'Massey'</i>	5 Gal.
DYH	Deerhollery Yew	<i>Taxus x media 'Desfroidi'</i>	5 Gal.
ELY	Everleaf Yew	<i>Taxus x media 'Everleaf'</i>	5 Gal.
GBS	Green Blue Star Plant	<i>Prinos 'patens' 'Sagea Green Gem'</i>	5 Gal.
GEB	Green Elm Boxwood	<i>Buxus microphylla x 'Green Gem'</i>	5 Gal.
GMC	Gold Mop Cypress	<i>Chamaecyparis 'patens' 'Yellow Thread Branch'</i>	5 Gal.
GFH	Green Feathered Holly	<i>Chamaecyparis 'Patens'</i>	5 Gal.
PRM	Green Mountain Boxwood (Pyramidal)	<i>Buxus microphylla 'Green Mountain'</i>	5 Gal.
SJS	Sea Green Juniper	<i>Juniperus chinensis 'Sea Green'</i>	5 gal.
TJH	Tam Juniper	<i>Juniperus asabina 'Tamada-hiki'</i>	5 Gal.
WGB	Winter Green Boxwood	<i>Buxus microphylla 'Winter Green'</i>	5 Gal.
WRD	Red Spotted Winterberry	<i>Vincetoxicum 'Nana'</i>	5 Gal.
WVH	Ward Yew	<i>Taxus x media 'Ward'</i>	5 Gal.
Deciduous Shrubs			
CPR	Red Carpet Rose	<i>Rosa 'Flower Carpet Red'</i>	2 Gal.
DWT	Variegated Red Twigged Dogwood	<i>Cornus alba 'Ivory Halo'</i>	2 Gal.
DWR	Dwarf Red Twigged Dogwood	<i>Cornus sericea 'Keiskei'</i>	2 Gal.
ESH	Endless Summer Hydrangea	<i>Hydrangea macrophylla 'Bailmer'</i>	2 Gal.
GLS	Go-Low Sumac	<i>Rhus aromatica 'Go-Low'</i>	2 Gal.
GRS	Groendomeum	<i>Hydrangea japonica 'Gloeden'</i>	2 Gal.
HYD	Anneke Hydrangea	<i>Hydrangea arborescens 'Annabelle'</i>	2 Gal.
KRH	Knox Red Holly	<i>Ilex 'Knox'</i>	2 Gal.
LHS	Lily Henry Sweetpea	<i>Liriodendron 'Lily Henry'</i>	2 Gal.
LPS	Little Princess	<i>Spiraea japonica 'Little Princess'</i>	2 Gal.
MSG	Magic Carpet	<i>Hydrangea arborescens 'Magic Carpet'</i>	2 Gal.
RHS	Rose of Sharon - Lavender Chiffon	<i>Hibiscus syriacus 'Noblescence'</i>	2 Gal.
WVH	Fine Wine Vireola	<i>Vaccinium floribundum 'Brarmstedt'</i>	2 Gal.
Perennials			
CAF	Carmine	<i>Nepeta x faassenii 'Walker's Halo'</i>	1 Gal.
DAY	Day's Return	<i>Leucanthemum 'Rosy Return'</i>	1 Gal.
DSY	Daisy	<i>Lycoranthemum x 'superbum' 'Becky'</i>	1 Gal.
SM	Sam's Substance Hosta	<i>Hosta 'Sam & Samantha'</i>	1 Gal.
RSB	Blue Flag Iris	<i>Iris virginica x 'shrevei'</i>	1 Gal.
MGB	Blue Bahia	<i>Salvia nemorosa 'Violet Spikes'</i>	1 Gal.
IRS	Summer Bay Ridge	<i>Anemone 'Summer Bay'</i>	1 Gal.
Grasses			
CAF	Karl Foerster Grass	<i>Calamagrostis x 'acutiflora' 'Karl Foerster'</i>	1 Gal.
MLG	Morning Light Maiden Grass	<i>Miscanthus sinensis 'Morning Light'</i>	1 Gal.
NWR	Northward Switch Grass	<i>Panicum virgatum 'Northward'</i>	1 Gal.
PRG	Red Switch Grass	<i>Panicum virgatum 'Prance Fire'</i>	1 Gal.
VLG	Variegated Liriope	<i>Liriope muscari 'Variegata'</i>	1 Gal.

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 - B. TREES SHALL BE A MINIMUM OF 10' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVING EDGE.
3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED SET OUT OF PLANT MATERIAL. INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES. SET OUT SHRUBS IN INTENDED LOCATIONS AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
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10. ROCK BEDS SHALL BE BUFFALO RIVER ROCK, "1-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUIV. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & 6" 4" MIN. DEPTH.
11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
12. FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

SEEDING & SOD NOTES

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 - b. SOWING - REFER TO PROJECT SPECIFICATIONS SECTION 3.2 AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
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 - 5.1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION I, SECTION 2406.4 FOR HYDROSEEDING GUIDELINES & PROCEDURES.
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6. SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (75%:1) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
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A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

05.16.24 PERMIT SET

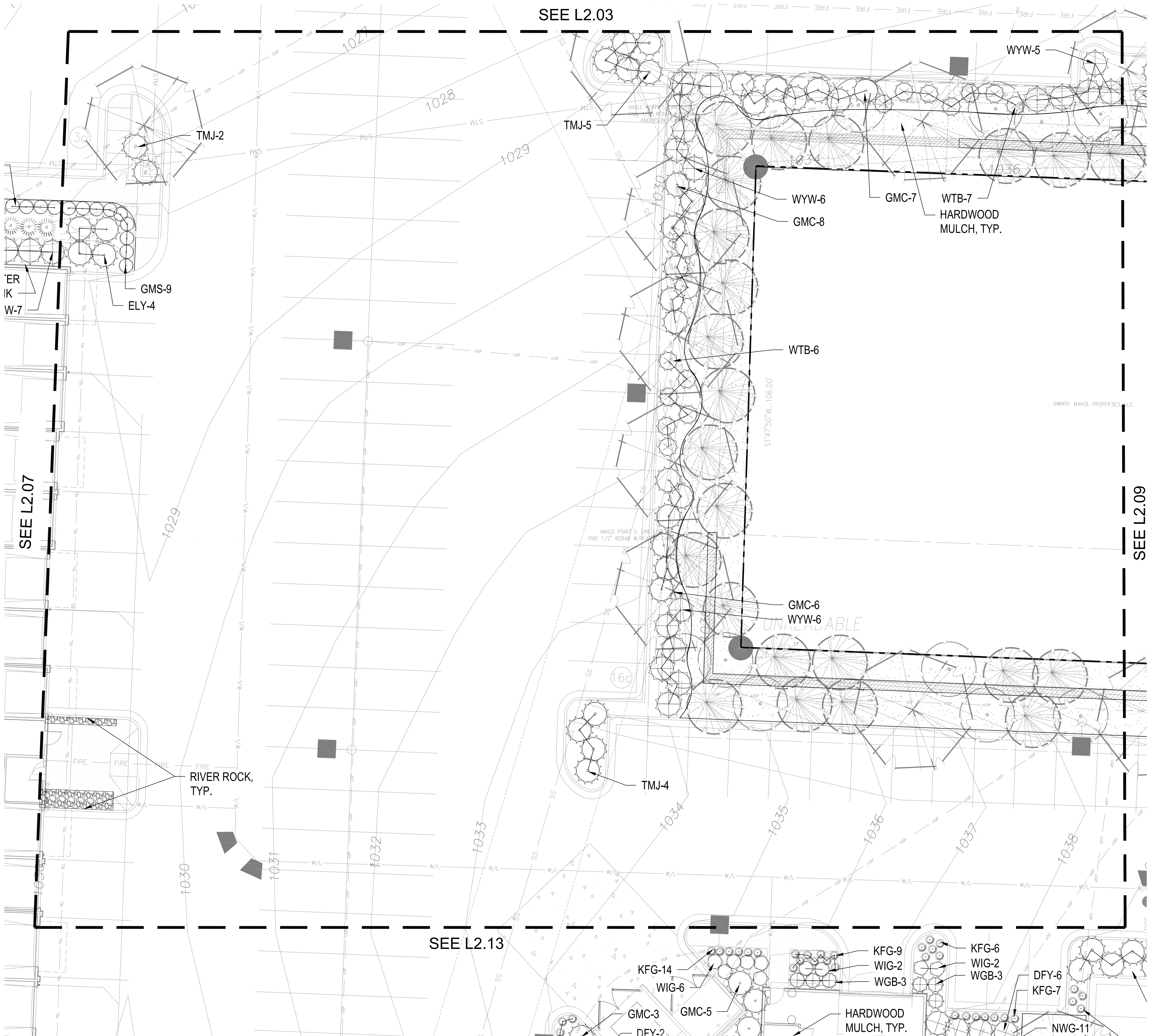
△ REVISIONS

JOB NO. **720522** DATE **09.16.2024**
DRAWN BY **SLW / KRM**

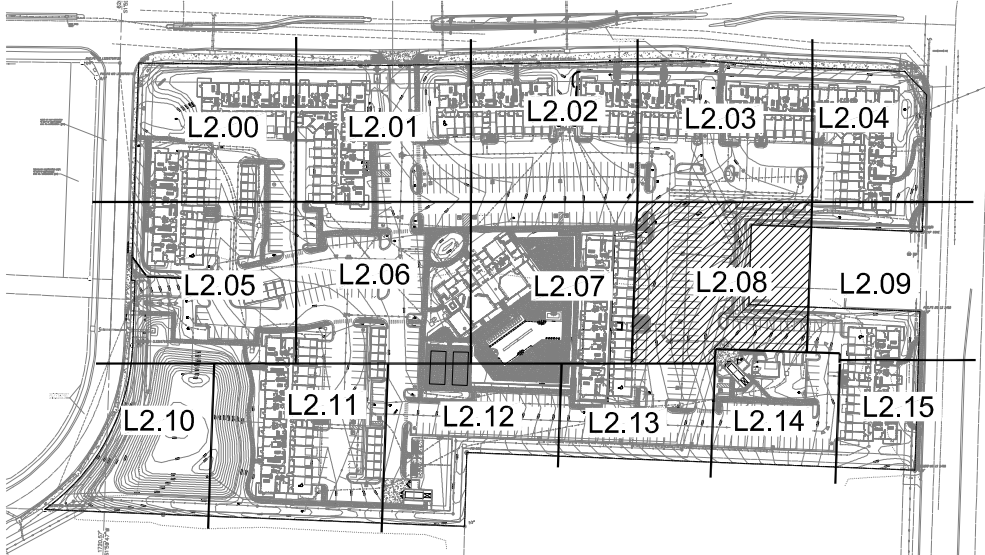
PERMIT SET

SHEET NAME
**SHRUB PLANTING
PLAN**
SHEET No.

L2.07



SHRUB PLANTING PLAN
1" = 10'-0"



KEY PLAN
NTS

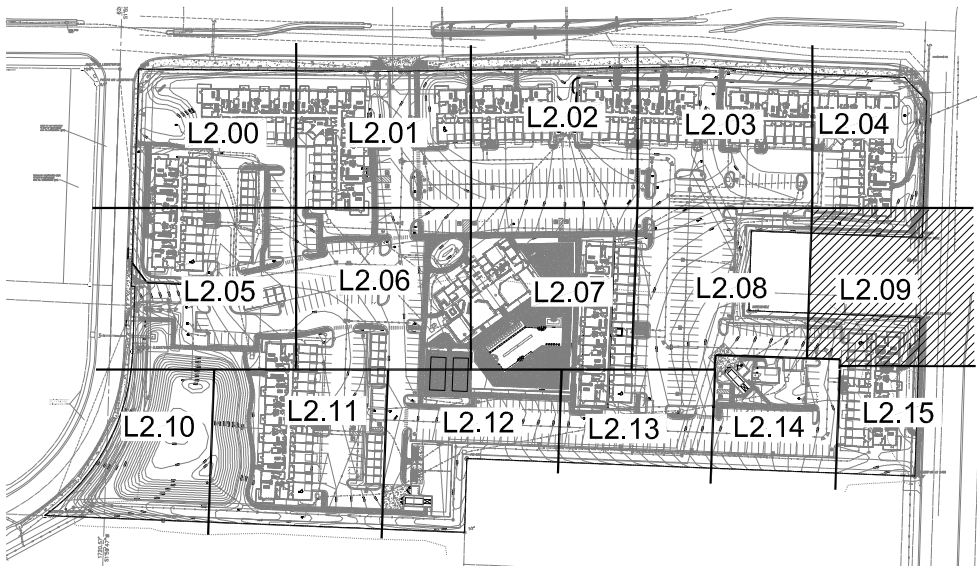
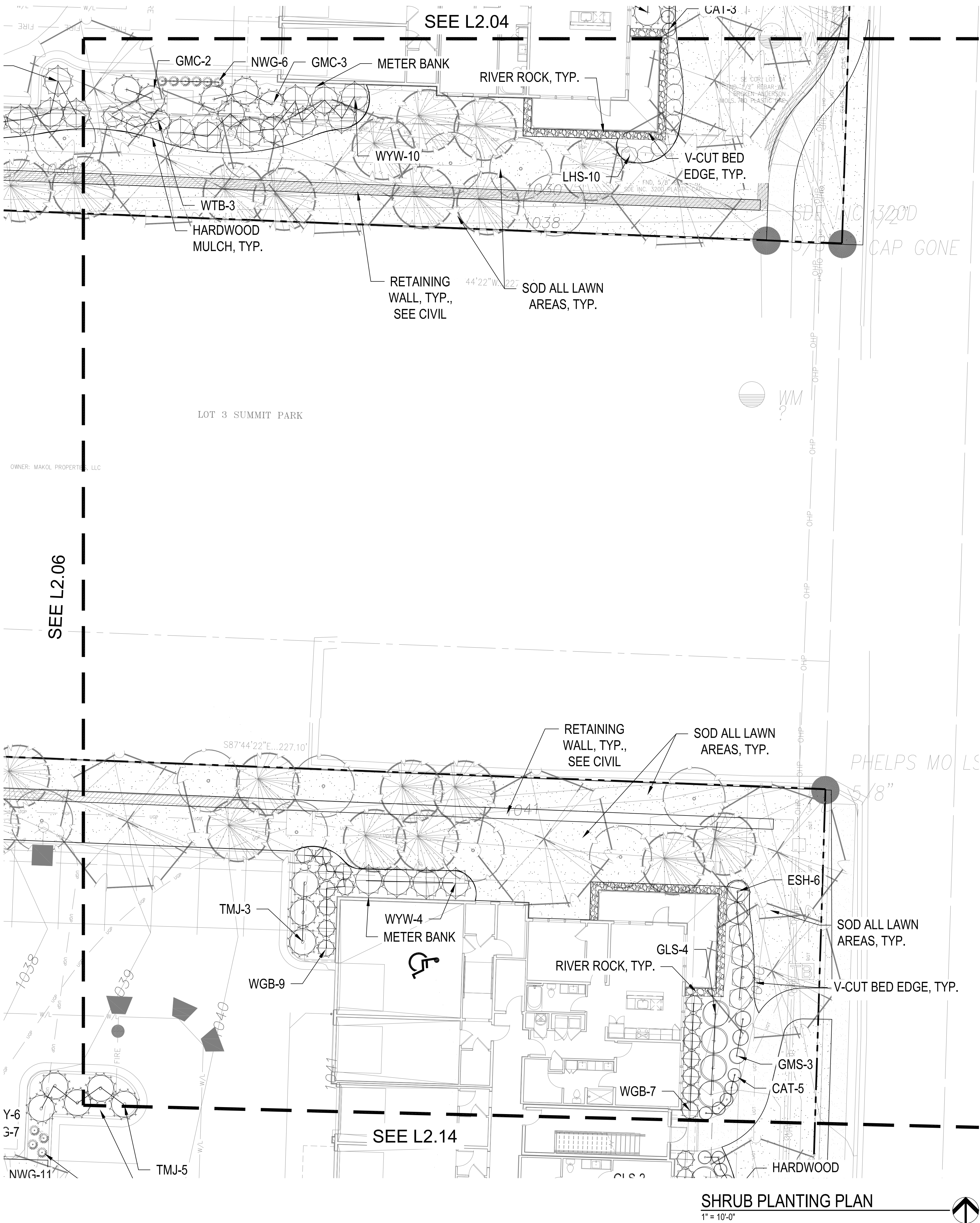
PLANT LIST

Code	Common Name	Botanical Name	Size
EGS	Evergreen Shrub		
CGH	China Boy Holly	Ilex x meserveae 'Meadow'	5 Gal.
CGH	China Girl Holly	Ilex x meserveae 'Meadow'	5 Gal.
OPY	Oversize Yew	Taxus x media 'Densiformis'	5 Gal.
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal.
GBS	Globe Blue Spruce	Picea pungens 'Glaucus globosa'	5 Gal.
GBB	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal.
GMC	Gold Mop Cypress	Chamaecyparis pisifera 'Yellow Thread Branch'	5 Gal.
PFJ	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal.
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal.
SJG	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal.
TMJ	Tam Juniper	Juniperus sabina 'Tamariscifolia'	5 Gal.
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal.
WTB	Red Sprite Winterberry	Ilex verticillata 'Nana'	5 Gal.
WYW	Wardii Yew	Taxus x media 'Wardii'	5 Gal.
DSB	Deciduous Shrub		
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal.
DGW	Variegated Red Twiggled Dogwood	Cornus alba 'Ivory Halo'	2 Gal.
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Nebula'	2 Gal.
ESH	Endless Summer Hydrangeas	Hydrangea macrophylla 'Bailmer'	2 Gal.
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal.
GMS	Goldmound Spiraea	Spiraea japonica 'Goldmound'	2 Gal.
HYD	Annabelle Hydrangeas	Hydrangea arborescens 'Annabelle'	2 Gal.
KNR	Knockout Rose	Rosa knockout	2 Gal.
LHS	Little Henry Sweetspire	Itea virginica 'Little Henry'	2 Gal.
LPS	Little Princess Spiraea	Spiraea japonica 'Little Princess'	2 Gal.
MCS	Magic Carpet Spiraea	Spiraea japonica 'Magic Carpet'	2 Gal.
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Notwoodone'	2 Gal.
WIS	Fine Wine Vitis	Vitis rotundifolia 'Brimhall'	2 Gal.
PER	Perennials		
CAT	Catmint	Nepeta x faassenii 'Walker's Low'	1 Gal.
DAY	Rosy Returns Daylily	Hemerocallis 'Rosy Returns'	1 Gal.
DSY	Daisy	Leucanthemum x superbum 'Becky'	1 Gal.
HOS	Sum & Substance Hosta	Hosta 'Sum & Substance'	1 Gal.
RS	Blue Flag Iris	Iris virginica x shirley	1 Gal.
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal.
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal.
GRS	Grasses		
KFG	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal.
M.G.	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal.
NWG	Northern Switch Grass	Panicum virgatum 'Northern'	1 Gal.
RSO	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal.
VL	Variegated Liriope	Liriope muscari variegata	1 Gal.

- GENERAL NOTES:
1. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. HE SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
 2. THE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS. EACH PLANT SPECIES MASSING SHALL BE PLACED IN THE FIELD TO UTILIZE GREATEST COVERAGE OF GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - A. CREEPING GROUNDCOVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - B. ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
 3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES, SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 4. ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
 5. REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
 6. REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
 7. REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
 8. IN THE EVENT OF WORK IN OR ON THE JOY SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
 9. STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 6" FOR ALL PLANTING BEDS AND AMEND WITH PLANTING SOIL MIX. AREAS WITH MORE THAN 18" OF GRAVEL IN PLANT BEDS SHALL BE EXCAVATED TO 18" OR 6" BELOW ROOT BALLS/BOTTOM OF CONTAINER, REFER TO L3.00 FOR PLANTING SOIL MIX.
 10. ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
 11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
 12. FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

- SEEDING & SOD NOTES:
1. REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOD MATERIAL.
 2. REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.2 FOR ADDITIONAL GRADING AND TILLAGE GUIDELINES & PROCEDURES.
 3. REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
 4. REFER TO PROJECT SPECIFICATION SECTION 3.3 AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
 5. SEEDING OPTIONS:
 - 5.1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES.
 - 5.2. SOWING - REFER TO PROJECT SPECIFICATIONS SECTION 3.2 AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
 6. SOIN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (15+%) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
 7. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.





KEY PLAN

PLANT LIST

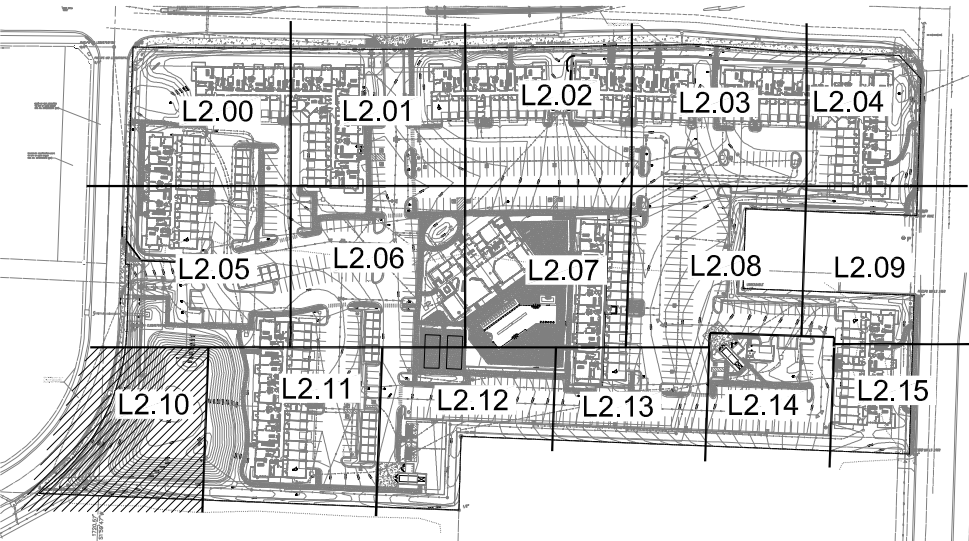
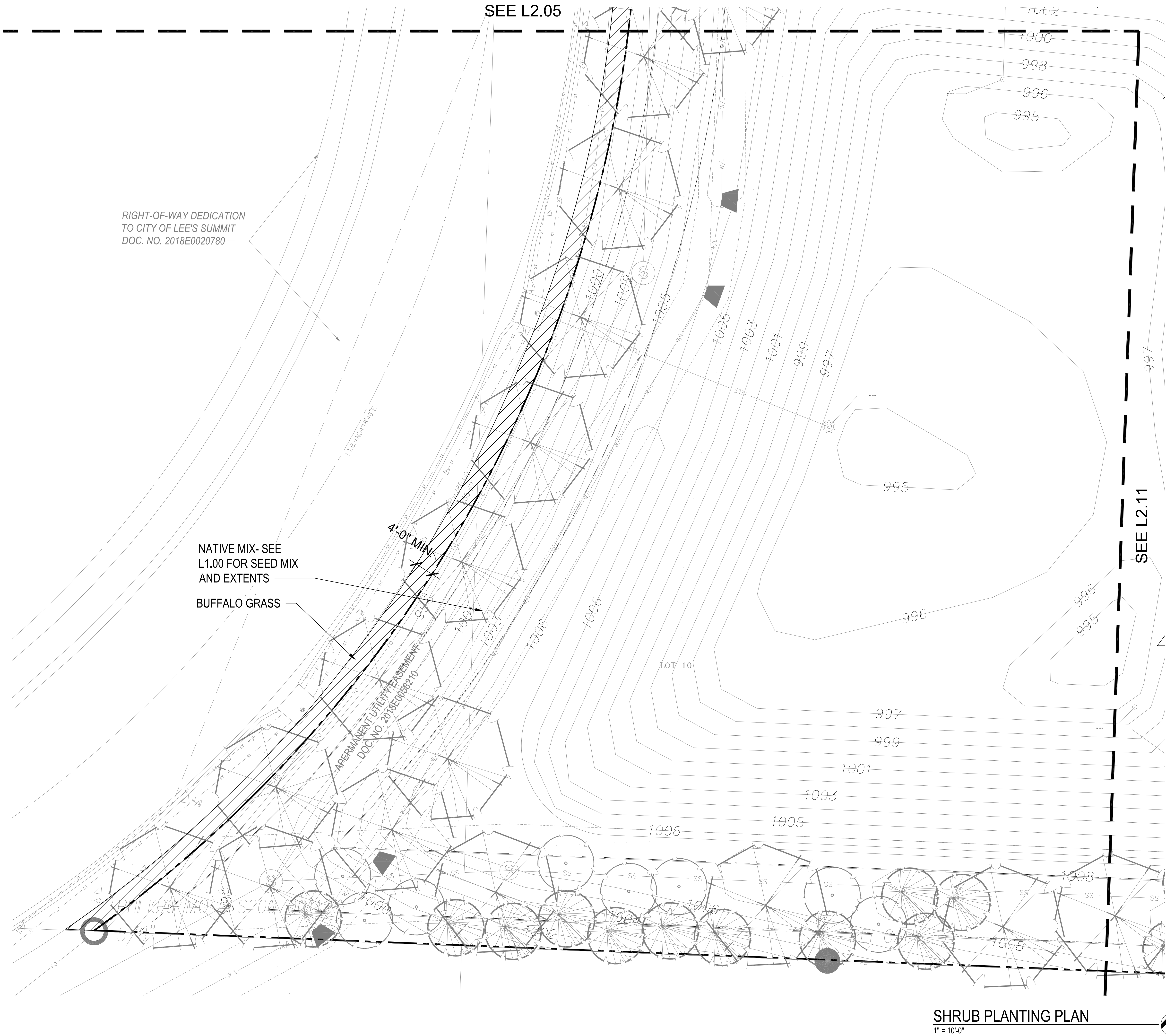
Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Boy Holly	Ilex x meserveae 'Mesdob'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Mesog'	5 Gal
DPT	Densiformis Yew	Taxus x media 'Densiformis'	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glaucia globosa'	5 Gal
GGB	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal
GMC	Gold Mop Cypress	Chamaecyparis pisifera 'Yellow Thread Branch'	5 Gal
PFI	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SJJ	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 gal
TMJ	Tam Juniper	Juniperus sabinna 'Tamariscifolia'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Sprite Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Wardi Yew	Taxus x media 'Wardi'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigged Dogwood	Cornus alba 'Ivory Halo'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Kelsey'	2 Gal
ESH	Endless Summer Hydrangeas	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmound Spirea	Spiraea japonica 'Goldmound'	2 Gal
HYO	Annabelle Hydrangeas	Hydrangea arborescens 'Annabelle'	2 Gal
KNR	Knockout Rose	Rosa knockout	2 Gal
LHS	Little Henry Sweetspire	Itea virginica 'Little Henry'	2 Gal
LPS	Little Princess Spirea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spirea	Spiraea japonica 'Magic Carpet'	2 Gal
RDS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Notwoodone'	2 Gal
WVC	Fine Wine Weigela	Weigela florida 'Brannwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faasseni 'Walker's Low'	1 Gal
DAY	Rosy Return Daylily	Hemerocallis 'Rosy Return'	1 Gal
DSY	Daylily	Leucanthemum x superbum 'Becky'	1 Gal
HOS	Sum & Substance Hosta	Hosta 'Sum & Substance'	1 Gal
RS	Blue Flag Iris	Iris virginica x alba 'Iris'	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFG	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MFG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
MWG	Northern Switch Grass	Panicum virgatum 'Northwind'	1 Gal
RSG	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLR	Variegated Liriope	Liriope muscari variegata	1 Gal

GENERAL NOTES:

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 - CREeping GROUNDcover SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
- NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES. SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
- REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
- REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
- REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
- IN THE EVENT OF WORK IN OR ON THE JOW SANITARY MAIN. ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
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- ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
- ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
- FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

SEEDING & SOD NOTES:

- REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOD MATERIAL.
- REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.2 FOR ADDITIONAL GRADING AND TILLAGE GUIDELINES & PROCEDURES.
- REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
- REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
- SEEDING OPTIONS:
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 - SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (15:1%) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.



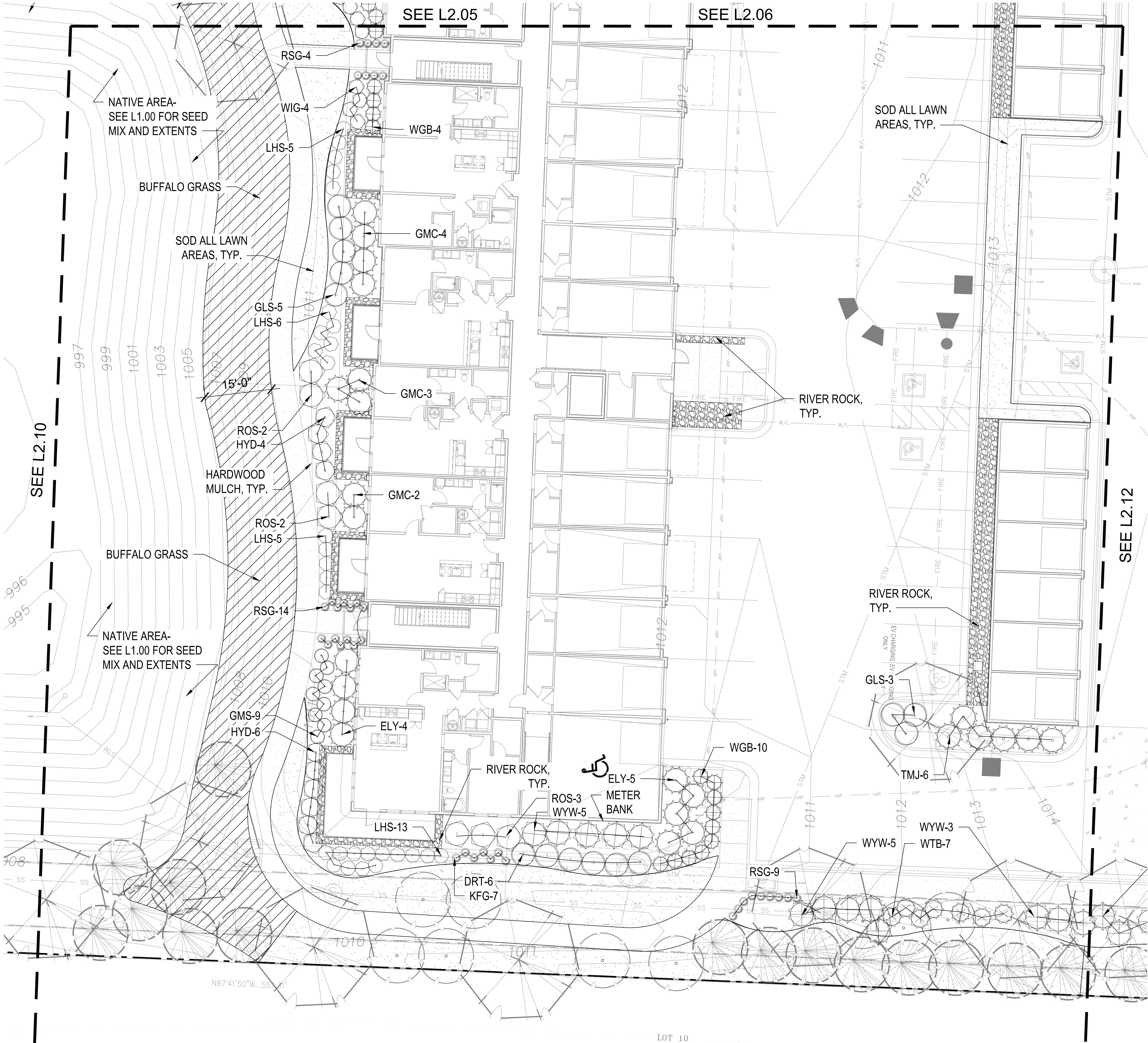
PLANT LIST

Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Girl Holly	Ilex x meserveae 'Mesdob'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Mesop'	5 Gal
DFY	Densiformis Yew	Taxus x media 'Densiformis'	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glauca globosa'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glauca globosa'	5 Gal
GGB	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal
GMC	Gold Moss Cypress	Chamaecyparis pacifica 'Yellow Thread Branch'	5 Gal
PFJ	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SIG	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal
TMJ	Tam Juniper	Juniperus sabinna 'Tamariscifolia'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Spire Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Wardii Yew	Taxus x media 'Wardii'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigged Dogwood	Cornus alba 'Ivory Halo'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Kelsey'	2 Gal
ESH	Endless Summer Hydrangea	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmound Spirea	Spiraea japonica 'Goldmound'	2 Gal
HYD	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	2 Gal
KNR	Knockout Rose	Rosa 'Knockout'	2 Gal
LHS	Little Henry Sweetspine	Itea virginica 'Little Henry'	2 Gal
LPS	Little Princess Spirea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spirea	Spiraea japonica 'Magic Carpet'	2 Gal
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Notwoodone'	2 Gal
WIG	Fine Wine Weigela	Weigela florida 'Bramwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faassenii 'Walker's Low'	1 Gal
DAY	Rosy Returns Daylily	Hemerocallis 'Rosy Returns'	1 Gal
DSY	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
HOS	Sum & Substance Hosta	Hosta 'Sum & Substance'	1 Gal
IRS	Blue Flag Iris	Iris virginica v. 'Ireneux'	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFC	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NWG	Northwind Switch Grass	Panicum virgatum 'Northwind'	1 Gal
RSG	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLK	Variegated Liriope	Liriope muscari variegata	1 Gal

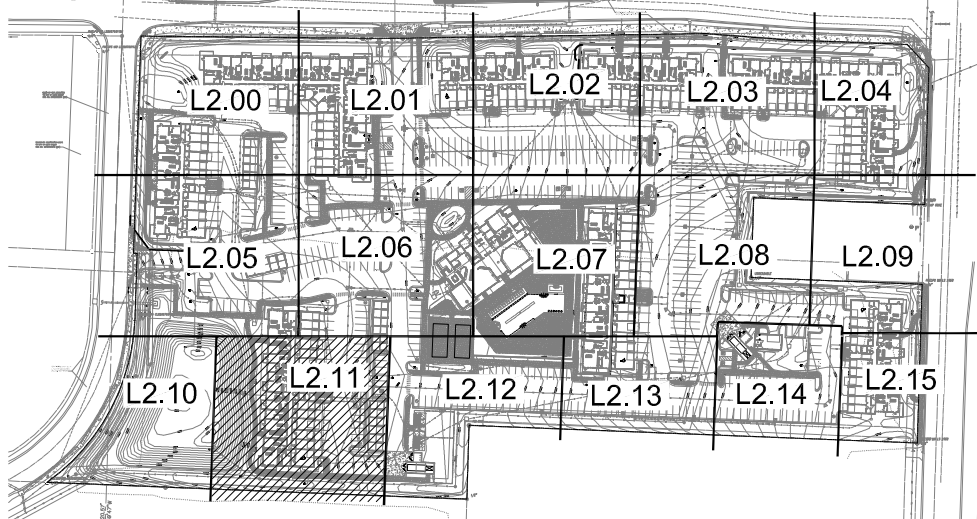
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SHRUB PLANTING PLAN
1" = 10'-0"



KEY PLAN
NTS

PLANT LIST

Code	Common Name	Botanical Name	Size
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CGH	China Girl Holly	Ilex x meserveae 'Mesog'	5 Gal
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WYW	Wardi Yew	Taxus x media 'Wardi'	5 Gal
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LPS	Little Princess Spiraea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spiraea	Spiraea japonica 'Magic Carpet'	2 Gal
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Notwoodone'	2 Gal
WIG	Fine Wine Weigela	Weigela florida 'Bramwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faasseni 'Walker's Low'	1 Gal
DAY	Rosy Returns Daylily	Hemerocallis 'Rosy Returns'	1 Gal
DAY	Day	Leucanthemum x superbum 'Becky'	1 Gal
HOS	Sum & Substance Hosta	Hosta 'Sum & Substance'	1 Gal
IRS	Blue Flag Iris	Iris virginica x 'Ireneval'	1 Gal
MCS	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFC	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NWG	Northwind Switch Grass	Panicum virgatum 'Northwind'	1 Gal
RSG	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLK	Variegated Liriope	Liriope muscari variegata	1 Gal

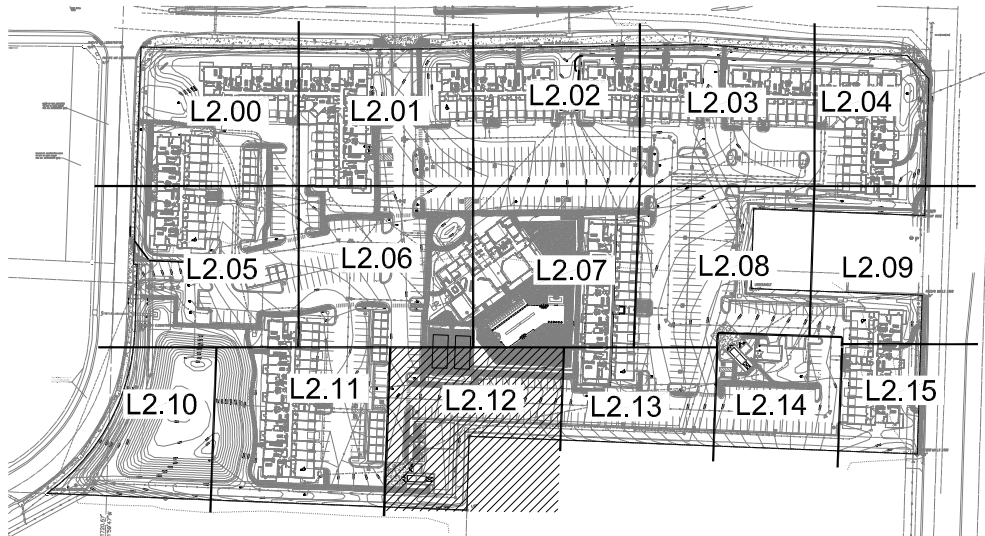
GENERAL NOTES:

- EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. HE SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
- THE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS. EACH PLANT SPECIES MASSING SHALL BE PLACED IN THE FIELD TO UTILIZE GREATEST COVERAGE OF GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - CREEPING GROUNDCOVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
- NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES, SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
- REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
- REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
- REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
- IN THE EVENT OF WORK IN OR ON THE JCIV SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
- STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 6" FOR ALL PLANTING BEDS AND AMEND WITH PLANTING SOIL MIX. AREAS WITH MORE THAN 18" OF GRAVEL IN PLANT BEDS SHALL BE EXCAVATED TO 18" OR 6" BELOW ROOT BALLS/BOTTOM OF CONTAINER, REFER TO L3.00 FOR PLANTING SOIL MIX.
- ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
- ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
- FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

SEEDING & SOD NOTES:

- REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOD MATERIAL.
- REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.2 FOR ADDITIONAL GRADING AND TILLAGE GUIDELINES & PROCEDURES.
- REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
- REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
- SEEDING OPTIONS:
 - HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES.
 - SOILING - REFER TO PROJECT SPECIFICATIONS SECTION 3.2 AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOILING PROCEDURES.
- SOIN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (15%) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
- IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.





NTS

Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGF	China Holly	<i>Ilex x meserveae 'Mesod'</i>	5 gal.
CGH	China Holly	<i>Ilex x meserveae 'Mesod'</i>	5 gal.
DYF	Dwarf Forsythia	<i>Taxus x media 'DwarfFormosa'</i>	5 gal.
EVL	Everlove Yew	<i>Taxus x media 'Everlove'</i>	5 gal.
GBS	Golden Spice Yew	<i>Taxus x media 'Golden Spice'</i>	5 gal.
GBL	Green Gem Boxwood	<i>Buxus microphylla 'Green Gem'</i>	5 gal.
GMC	Gold Mop Cypress	<i>Chamaecyparis pisifera 'Yew Tree Branch'</i>	5 gal.
GRB	Green Broomrape	<i>Chamaecyparis 'Yew Tree Branch'</i>	5 gal.
PAB	Green Mountain Boxwood (Pyramidal)	<i>Buxus microphylla 'Green Mountain'</i>	5 gal.
SJS	Sea Green Juniper	<i>Juniperus chinensis 'Sea Green'</i>	5 gal.
TJN	Tem Juniper	<i>Juniperus sabina 'Tamarix-like'</i>	5 gal.
WGB	Winter Green Boxwood	<i>Buxus microphylla 'Winter Green'</i>	5 gal.
WRD	Red Spire Winterberry	<i>V. verticillata 'Nana'</i>	5 gal.
WYW	Warty Yew	<i>Taxus x media 'Warty'</i>	5 gal.
Deciduous Shrubs			
CPR	Red Carpet Rose	<i>Rosa 'Power Carpet Red'</i>	2 gal.
DOW	Downy Red Twigged Dogwood	<i>Cornus 'Red Tropic'</i>	2 gal.
DRT	Dwarf Red Twig Dogwood	<i>Cornus sericea 'Redspire'</i>	2 gal.
ESH	Endless Summer Hydrangea	<i>Hydrangea macrophylla 'Bailmer'</i>	2 gal.
GLS	Gold Low-Sumac	<i>Rhus aromatica 'Gold-Low'</i>	2 gal.
GMR	Goldmound Spirea	<i>Spiraea japonica 'Goldmound'</i>	2 gal.
HNR	Anabelle Hydrangea	<i>Hydrangea arborescens 'Anabelle'</i>	2 gal.
KND	Knockout Rose	<i>Rosa knockout</i>	2 gal.
LHS	Little Henry Weigela	<i>Weigela 'Little Henry'</i>	2 gal.
LPS	Little Princess Spirea	<i>Spiraea japonica 'Little Princess'</i>	2 gal.
LPS	Magic Carpet Spirea	<i>Spiraea japonica 'Magic Carpet'</i>	2 gal.
ROS	Rose of Sharon - Lavender Chiffon	<i>Albizia julibrissin 'Noblescence'</i>	2 gal.
WVJ	Wine Vine Weigela	<i>Weigela florida 'Brilliant'</i>	2 gal.
Perennials			
RTM	Ratamint	<i>Nepeta x faassenii 'Bavarian's Walk'</i>	1 gal.
DAY	Day Rosy Returns	<i>Hemerocallis 'Rosy Returns'</i>	1 gal.
DST	Daisy Sun & Substance Hosta	<i>Leucanthemum x superbum 'Becky'</i>	1 gal.
HOS	Hosta Sun & Substance	<i>Hosta Sun & Substance</i>	1 gal.
RSB	Blue Salvia	<i>Salvia virginea v. nana</i>	1 gal.
NSG	Blue Salvia	<i>Salvia nemorosa 'May Night'</i>	1 gal.
SBA	Summer Beauty Allium	<i>Allium 'Summer Beauty'</i>	1 gal.
Grasses			
KCF	Karl Foerster Grass	<i>Calamagrostis x canadensis 'Karl Foerster'</i>	1 gal.
MLG	Morning Lull Maiden Grass	<i>Miscanthus sinensis 'Morning Lull'</i>	1 gal.
NWS	Northwest Switch Grass	<i>Panicum virgatum 'Northwest'</i>	1 gal.
RSR	Red Switch Grass	<i>Panicum virgatum 'Prima Fire'</i>	1 gal.
VLR	Venegated Lure Grass	<i>Liriope muscari variegata</i>	1 gal.

GENERAL NOTES:

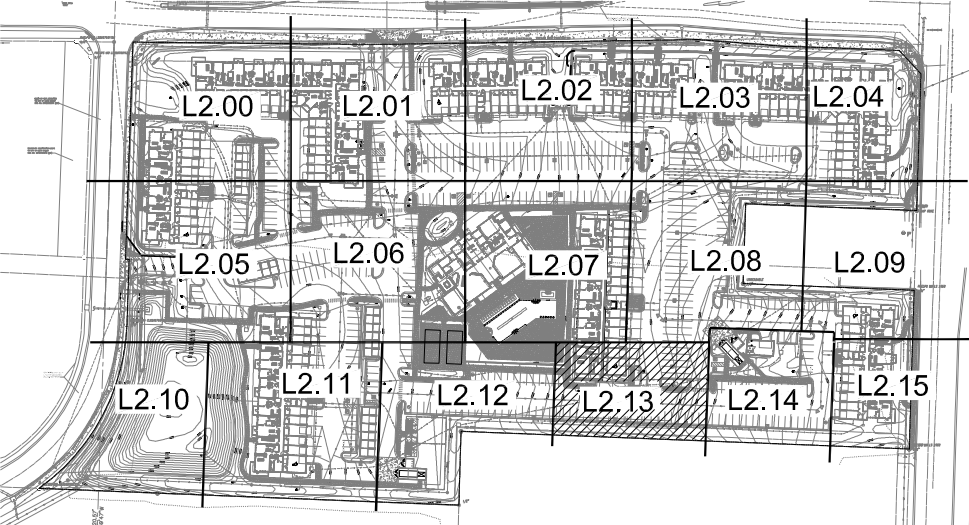
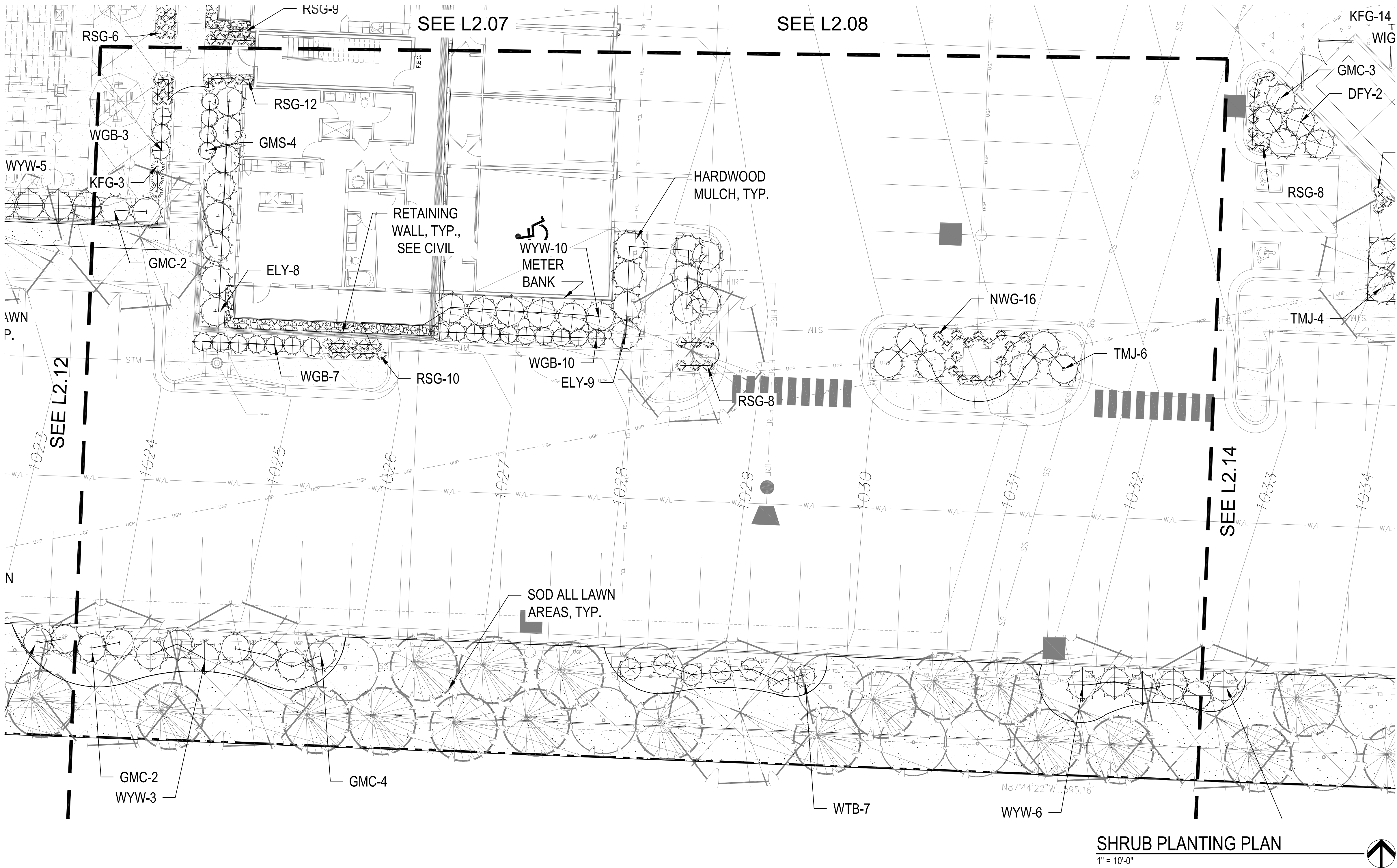
1. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. THEY SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
2. THE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS, EACH PLANT SPECIES MASSING SHALL BE PLACED IN THE FIELD TO UTILIZE GREATEST COVERAGE OF GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - A. CREEPING GROUNDCOVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - B. ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
5. REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
6. REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
7. REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
8. IN THE EVENT OF WORK IN OR ON THE JCW SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
9. STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 6" FOR ALL PLANTING BEDS AND AMEND WITH PLANTING SOIL MIX. AREAS WITH MORE THAN 18" OF GRAVEL IN PLANT BEDS SHALL BE EXCAVATED TO 18" OR 6" BELOW ROCK BALLS/BOTTOM OF CONTAINER, REFER TO L3.00 FOR PLANTING SOIL MIX.
10. ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER BED PER SPECS.
12. FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

SEEDING & SOD NOTES:

1. REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOIL MATERIAL.
2. REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.2 FOR ADDITIONAL GRADING GUIDELINES AND PROCEDURES.
3. REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
4. REFER TO PROJECT SPECIFICATION SECTION 3.2, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4 FOR SOIL INSTALLATION GUIDELINES & PROCEDURES.
5. SEE SEEDING OPTIONS:
 - 5.1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES.
 - 5.2. HYDROSEEDING WITH MULCH - REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
6. SOWN SEED PROTECTION & SEEDING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6% (15:1) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D. IF ANY SLOPES GREATER THAN 6% ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 400.0, THE MOST STRINGENT GUIDELINE APPLIES.

1" = 10'-0"





KEY PLAN

NTS

PLANT LIST

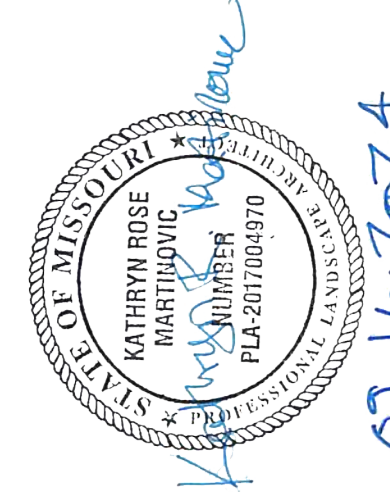
Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Boy Holly	Ilex x meserveae 'Mesdob'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Mesop'	5 Gal
DFY	Densiformis Yew	Taxus x media 'Densiformis'	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glaucus globosa'	5 Gal
GGB	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal
GMC	Gold Moss Cypress	Chamaecyparis palmeri 'Yellow Thread Branch'	5 Gal
PJF	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SJG	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal
TMJ	Tam Juniper	Juniperus sabina 'Tamariscifolia'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Spine Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Wardi Yew	Taxus x media 'Wardi'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigged Dogwood	Cornus alba 'Vivry Halo'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Kelsey'	2 Gal
ESR	Endless Summer Hydrangea	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmound Spirea	Spiraea japonica 'Goldmound'	2 Gal
HYD	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	2 Gal
KNR	Knockout Rose	Rosa 'Knockout'	2 Gal
LHS	Little Henry Sweetspine	Itea virginica 'Little Henry'	2 Gal
LPS	Little Princess Spirea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spirea	Spiraea japonica 'Magic Carpet'	2 Gal
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Notwoodone'	2 Gal
WIG	Fine Wine Weigela	Weigela florida 'Bramwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faasseni 'Walker's Low'	1 Gal
DAY	Rosy Returns Daylily	Hemerocallis 'Rosy Returns'	1 Gal
DSY	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
HOS	Sum & Substance Hosta	Hosta 'Sum & Substance'	1 Gal
IRS	Blue Flag Iris	Iris virginica x 'Irisveit'	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFG	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NWG	Northwind Switch Grass	Panicum virgatum 'Northwind'	1 Gal
RSG	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLG	Variegated Liriope	Liriope muscari variegata	1 Gal

GENERAL NOTES:

1. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. HE SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
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 - A. CREEPING GROUNDCOVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - B. ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES. SET OUT SHRUBS IN INTENDED LOCATIONS AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
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6. REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
7. REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
8. IN THE EVENT OF WORK IN OR ON THE JOV SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
9. STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 6" FOR ALL PLANTING BEDS AND AMEND WITH PLANTING SOIL MIX. AREAS WITH MORE THAN 18" OF GRAVEL IN PLANT BEDS SHALL BE EXCAVATED TO 18" OR 8" BELOW ROOT BALLS/BOTTOM OF CONTAINER. REFER TO L3.00 FOR PLANTING SOIL MIX.
10. ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
12. FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

SEEDING & SOD NOTES:

1. REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOD MATERIAL.
2. REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2408.2 FOR ADDITIONAL GRADING AND TILLAGE GUIDELINES & PROCEDURES.
3. REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2408.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
4. REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
5. SEEDING OPTIONS:
 - S1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES.
 - S2. SOWING - REFER TO PROJECT SPECIFICATIONS SECTION 3.2 AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
6. SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6:1 (15%+) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
7. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.



09.16.2024

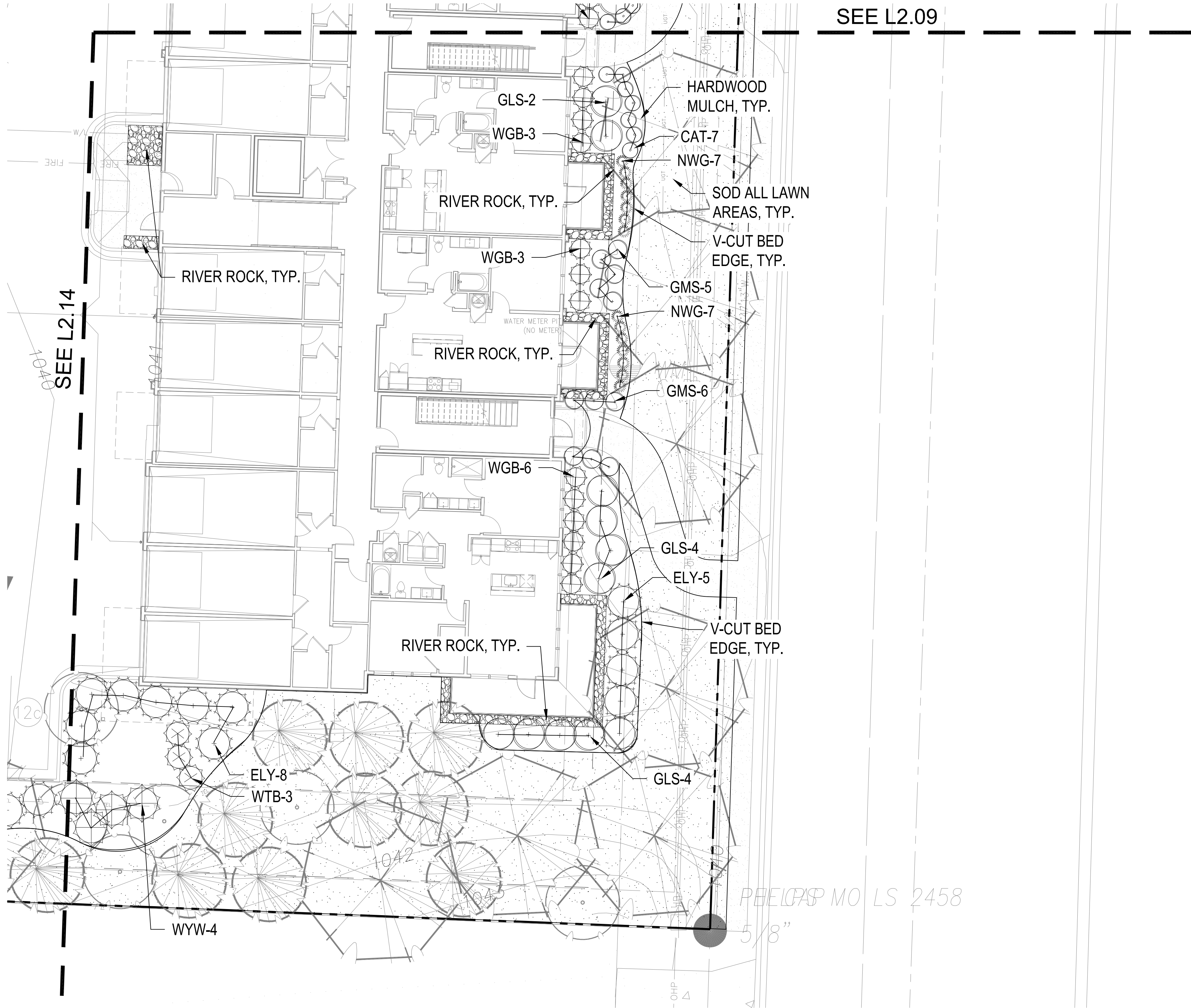


NTS

Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Holly	<i>Ilex x meserveae 'Mesodol'</i>	5 gal.
COH	China Holly	<i>Ilex x meserveae 'Mesog'</i>	5 gal.
DFY	Densiform Yew	<i>Taxus x media 'Densiformis'</i>	5 gal.
ELV	Everlove Yew	<i>Taxus x media 'Everlove'</i>	5 gal.
GBS	Globe Blue Spruce	<i>Picea pungens 'Globe Blue Spruce'</i>	5 gal.
GLB	Green Gem Boxwood	<i>Buxomyrica x 'Green Gem'</i>	5 gal.
GLP	Gold Moss Cypress	<i>Chamaecyparis platensis 'Yellow Thread Branch'</i>	5 gal.
PER	Periclea Japanese Pear	<i>Persea microphylla 'Green Mountain'</i>	5 gal.
PRJ	Green Mountain (Prunella)	<i>Buxomyrica x 'Green Pear'</i>	5 gal.
PTB	Star Green Juniper	<i>Juniperus sibirica 'Tamariscolor'</i>	5 gal.
TNG	Winter Green Juniper	<i>Buxomyrica x 'Winter Green'</i>	5 gal.
WBT	Red Tangle Winterberry	<i>Ilex verticillata 'Nana'</i>	5 gal.
WVD	Wards Yew	<i>Taxus x media 'Wards'</i>	5 gal.
Deciduous Shrubs			
CPR	Red Carpet Rose	<i>Rosa 'Flower Carpet Red'</i>	2 gal.
DOW	Variagated Red Twigged Dogwood	<i>Cornus alba 'Icy Holly'</i>	2 gal.
DRT	Dwarf Red Twig Dogwood	<i>Cornus sericea 'Keiskei'</i>	2 gal.
ELS	Endless Summer Hydrangea	<i>Hydrangea macrophylla 'Bailmer'</i>	2 gal.
GLS	Go Low Sumac	<i>Rhus aromatica 'Go Low'</i>	2 gal.
GMR	Goddard's Magnolia	<i>Syringa japonica 'Goddard'</i>	2 gal.
HVR	Annabelle Hydrangea	<i>Hydrangea arborescens 'Annabelle'</i>	2 gal.
KND	Knockout Rose	<i>Rosa 'Knockout'</i>	2 gal.
LYH	Little Henry Sweetspirea	<i>Spiraea japonica 'Little Henry'</i>	2 gal.
LPS	Little Princess Spirea	<i>Spiraea japonica 'Little Princess'</i>	2 gal.
MCS	Magic Carpet Spirea	<i>Spiraea japonica 'Magic Carpet'</i>	2 gal.
ROS	Rose of Sharon - Lavender Chiffon	<i>Albizia julibrissin 'Lavender Chiffon'</i>	2 gal.
WVF	Wine Wine Weigela	<i>Weigelia florida 'Brilliant'</i>	2 gal.
Perennials			
CAJ	Catmint	<i>Nepeta x faassenii 'Walker's Low'</i>	1 gal.
DAY	Daisy	<i>Leucanthemum x superbum 'Becky'</i>	1 gal.
DSY	Daisy Returns Daily	<i>Leucanthemum x superbum 'Becky'</i>	1 gal.
HOS	Sum & Substance Hosta	<i>Hosta 'Sum & Substance'</i>	1 gal.
IRS	Blue Flag Iris	<i>Iris virginica x 'Blue Flag'</i>	1 gal.
MBG	Blue Salvia	<i>Salvia nemorosa 'May Night'</i>	1 gal.
SBA	Summer Breeze Salvia	<i>Salvia nemorosa 'May Night'</i>	1 gal.
Grasses			
KFG	Karl Foerster Grass	<i>Calamagrostis x sciriflora 'Nana Foerster'</i>	1 gal.
MLG	Morning Lily Maiden Grass	<i>Monarda sinensis 'Morning Lily'</i>	1 gal.
NWG	Northwind Switch Grass	<i>Panicum virgatum 'Northwind'</i>	1 gal.
RSG	Red Switch Grass	<i>Panicum virgatum 'Prairie Fire'</i>	1 gal.
VR	Versailles Grass	<i>Lolium perenne 'Versailles'</i>	1 gal.

1. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. HE SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
2. THE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS, EACH PLANT SPECIES MASSING SHALL BE PLACED IN THE FIELD TO OBTAIN GREATEST COVERAGE OF GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - A. CREEPING GROUNDCOVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - B. TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVING EDGE.
3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL DELIVERY. LANDSCAPE ARCHITECT SHALL STAKE ALL PROPOSED PLANTING BED EDGES, SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS FOR IRRIGATION SYSTEM DESCRIPTION.
5. REFER TO L1.00 SERIES SHEETS FOR TREE PLANTINGS.
6. REFER TO L2.00 SERIES SHEETS FOR SHRUB PLANTINGS & ROCK MATERIALS.
7. REFER TO L3.00 SERIES SHEETS FOR PLANTING DETAILS & SPECIFICATIONS.
8. IN THE EVENT OF WORK IN OR ON THE JCW SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.
9. STRIP TOP SOIL, SAVE FOR PLANTING AREAS, EXCAVATE TO A DEPTH OF 8" FOR ALL PLANTING BEDS AND AMEND WITH PLANTING SOIL MIX. AREAS WITH MORE THAN 18" OF GRAVEL IN PLANT BEDS SHALL BE EXCAVATED TO 18" OR 8" BELOW ROCK BALLS/BOTTOM OF CONTAINER. REFER TO L3.00 FOR PLANTING SOIL MIX.
10. ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUIV. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
12. FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

1. REFER TO GENERAL NOTES ON PLANTING DETAILS PAGE FOR SEED MIX AND SOD MATERIAL.
2. REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.2 FOR ADDITIONAL GRADING GUIDELINES & PROCEDURES.
3. REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
4. REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
- SEEDING OPTIONS:
 - 5.1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES
 - 5.2. REFER TO PROJECT SPECIFICATIONS SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
6. SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 6% (15%) BY EITHER METHOD NOTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
7. AT ALL TIMES, MAINTAIN THE PROPOSED PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2406, THE MOST STRINGENT GUIDELINE APPLIES.



SHRUB PLANTING PLAN

1" = 10'-0"



KEY PLAN

NTS

PLANT LIST

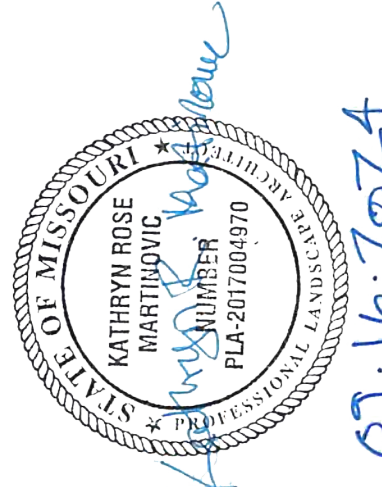
Code	Common Name	Botanical Name	Size
Evergreen Shrubs			
CGH	China Boy Holly	Ilex x meserveae 'Mesdob'	5 Gal
CGH	China Girl Holly	Ilex x meserveae 'Mesop'	5 Gal
DFY	Densiformis Yew	Taxus x media 'Densiformis'	5 Gal
ELY	Everlow Yew	Taxus x media 'Everlow'	5 Gal
GBS	Globe Blue Spruce	Picea pungens 'Glaucia globosa'	5 Gal
GGB	Green Gem Boxwood	Buxus microphylla x 'Green Gem'	5 Gal
GMC	Gold Moss Cypress	Chamaecyparis pisillifera 'Yellow Thread Branch'	5 Gal
PJF	Perfecta Juniper	Juniperus chinensis 'Perfecta'	5 Gal
PRB	Green Mountain Boxwood (Pyramidal)	Buxus microphylla 'Green Mountain'	5 Gal
SJG	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 Gal
TJM	Tam Juniper	Juniperus sabina 'Tamariscifolia'	5 Gal
WGB	Winter Green Boxwood	Buxus microphylla 'Winter Green'	5 Gal
WTB	Red Spire Winterberry	Ilex verticillata 'Nana'	5 Gal
WYW	Wards Yew	Taxus x media 'Wards'	5 Gal
Deciduous Shrubs			
CPR	Red Carpet Rose	Rosa 'Flower Carpet Red'	2 Gal
DGW	Variegated Red Twigg Dogwood	Cornus alba 'Ivory Halo'	2 Gal
DRT	Dwarf Red Twig Dogwood	Cornus sericea 'Kelsey'	2 Gal
ESH	Endless Summer Hydrangea	Hydrangea macrophylla 'Bailmer'	2 Gal
GLS	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	2 Gal
GMS	Goldmound Spiraea	Spiraea japonica 'Goldmound'	2 Gal
HYD	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	2 Gal
KNR	Knockout Rose	Rosa Knockout	2 Gal
LHS	Little Henry Sweetspire	Itea virginica 'Little Henry'	2 Gal
LPS	Little Princess Spiraea	Spiraea japonica 'Little Princess'	2 Gal
MCS	Magic Carpet Spiraea	Spiraea japonica 'Magic Carpet'	2 Gal
ROS	Rose of Sharon - Lavender Chiffon	Hibiscus syriacus 'Notwoodone'	2 Gal
WIG	Fine Wine Weigela	Weigela florida 'Bramwell'	2 Gal
Perennials			
CAT	Catmint	Nepeta x faassenii 'Walker's Low'	1 Gal
DAY	Rosy Returns Daylily	Hemerocallis 'Rosy Returns'	1 Gal
DSY	Daisy	Leucanthemum x superbum 'Becky'	1 Gal
HOS	Sum & Substance Hosta	Hosta 'Sum & Substance'	1 Gal
IRS	Blue Flag Iris	Iris virginica x 'Ireneval'	1 Gal
MSG	Blue Salvia	Salvia nemorosa 'May Night'	1 Gal
SBA	Summer Beauty Allium	Allium 'Summer Beauty'	1 Gal
Grasses			
KFC	Karl Foerster Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 Gal
MLG	Morning Light Maiden Grass	Miscanthus sinensis 'Morning Light'	1 Gal
NWG	Northwind Switch Grass	Panicum virgatum 'Northwind'	1 Gal
RSO	Red Switch Grass	Panicum virgatum 'Prairie Fire'	1 Gal
VLR	Variegated Liriope	Liriope muscari variegata	1 Gal

GENERAL NOTES:

1. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. HE SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
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 - B. ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - C. ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - D. ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
3. NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES, SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
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9. STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 6" FOR ALL PLANTING BEDS AND AMEND WITH PLANTING SOIL MIX. AREAS WITH MORE THAN 18" OF GRAVEL IN PLANT BEDS SHALL BE EXCAVATED TO 18" OR 8" BELOW ROOT BALL/BOTTOM OF CONTAINER, REFER TO L3.00 FOR PLANTING SOIL MIX.
10. ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5" SIZE, BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.
11. ALL LANDSCAPE BEDS WITHIN POOL ENCLOSURE TO INCLUDE RIVER ROCK PER SPECS.
12. FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

SEEDING & SOD NOTES:

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2. REFER TO PROJECT SPECIFICATIONS SECTION 3.1 FOR TURF AREA PREPARATION, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.2 FOR ADDITIONAL GRADING AND TILLAGE GUIDELINES & PROCEDURES.
3. REFER TO THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.3 FOR FERTILIZATION GUIDELINES & PROCEDURES.
4. REFER TO PROJECT SPECIFICATION SECTION 3.3, AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.D FOR SOD INSTALLATION GUIDELINES & PROCEDURES.
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 - 5.1. HYDROSEEDING - REFER TO KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.C FOR HYDROSEEDING GUIDELINES & PROCEDURES.
 - 5.2. SOWING - REFER TO PROJECT SPECIFICATIONS SECTION 3.2 AND THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA, DIVISION II, SECTION 2406.4.B FOR SEED SOWING PROCEDURES.
6. SOWN SEED PROTECTION & SECURING METHODS. PROTECT ALL SEEDED AREAS WITH SLOPES NOT EXCEEDING 8:1 (15%) BY EITHER METHOD LISTED IN THE PROJECT SPECIFICATION SECTION 3.2.D.
7. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PROJECT GENERAL NOTES, PROJECT SPECIFICATIONS, AND APWA SECTION 2400, THE MOST STRINGENT GUIDELINE APPLIES.



A NEW MULTI-FAMILY PROJECT:

EVREN APARTMENTS

LEE'S SUMMIT, MISSOURI

DRAWING RELEASE LOG
09.16.24 PERMIT SET

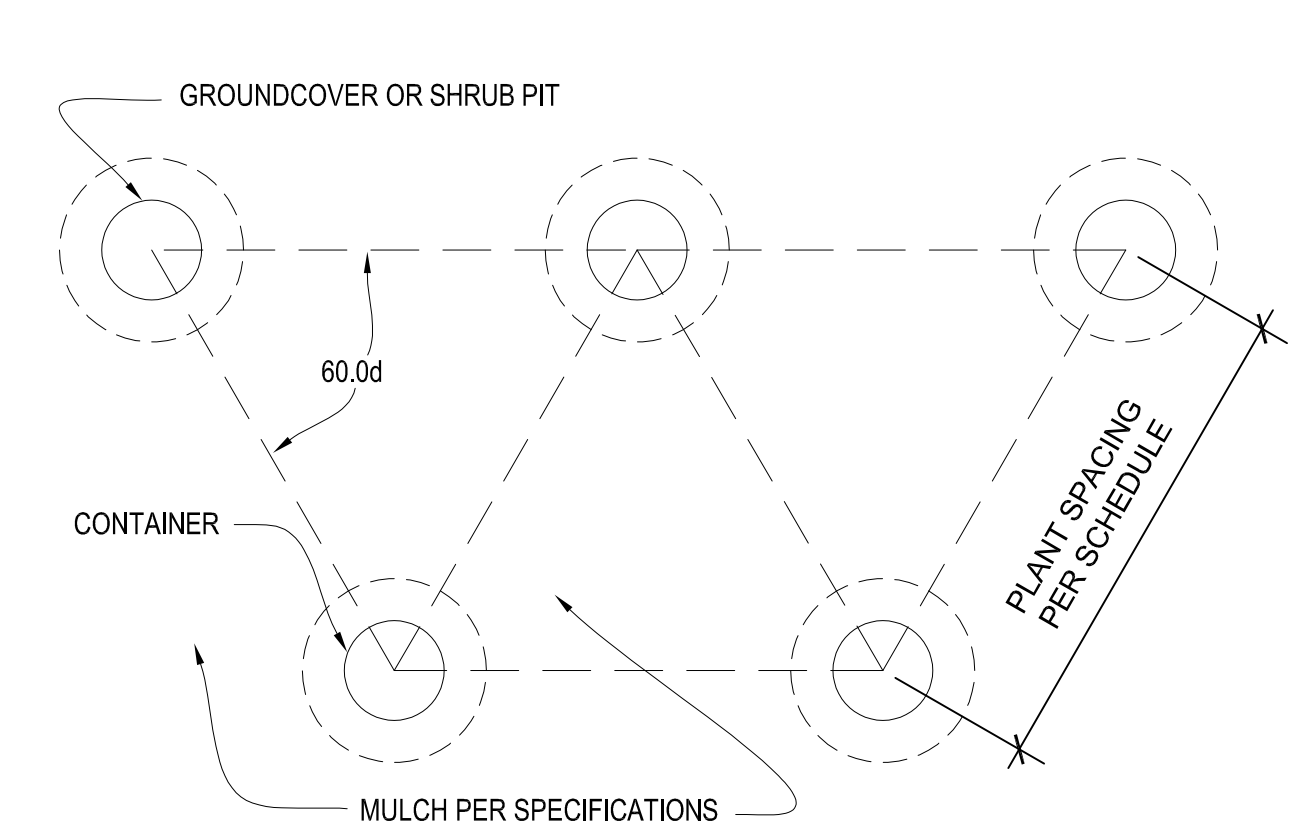
REVISIONS

JOB NO.
720522
DRAWN BY
SLW / KRM
PERMIT SET

SHEET NAME
SHRUB PLANTING
PLAN
SHEET NO.

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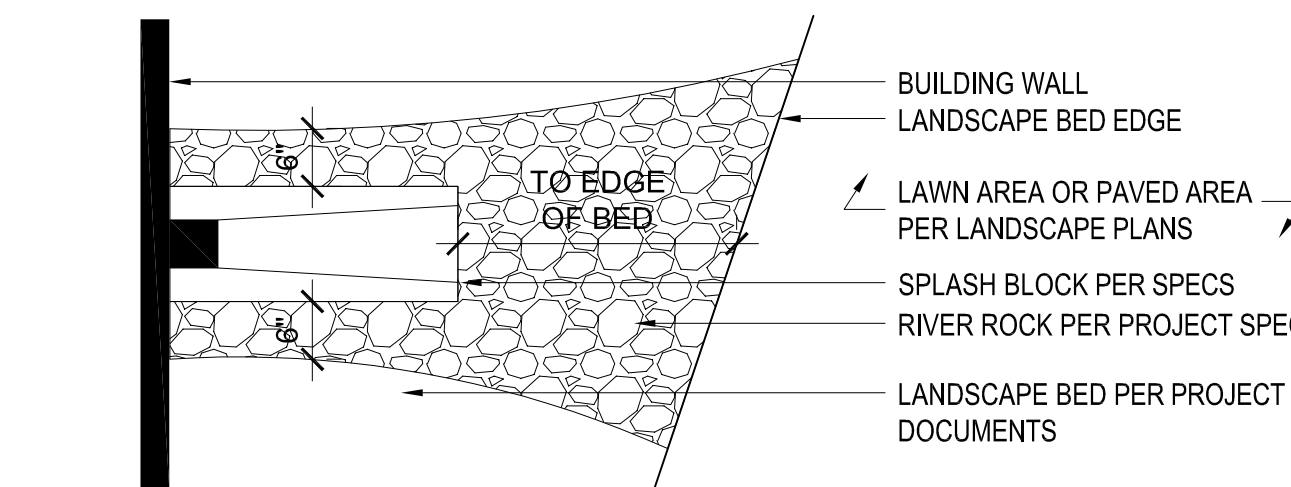
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720522
DATE
09.16.2024



NOTES: 1. SPACING FOR GROUNDCOVERS, SHRUBS, AND PERENNIALS NOTED ON PLANS.
2. TILL SOIL IN BED TO A 12" MINIMUM DEPTH AND THOROUGHLY MIX IN SOIL AMENDMENTS AS SPECIFIED.

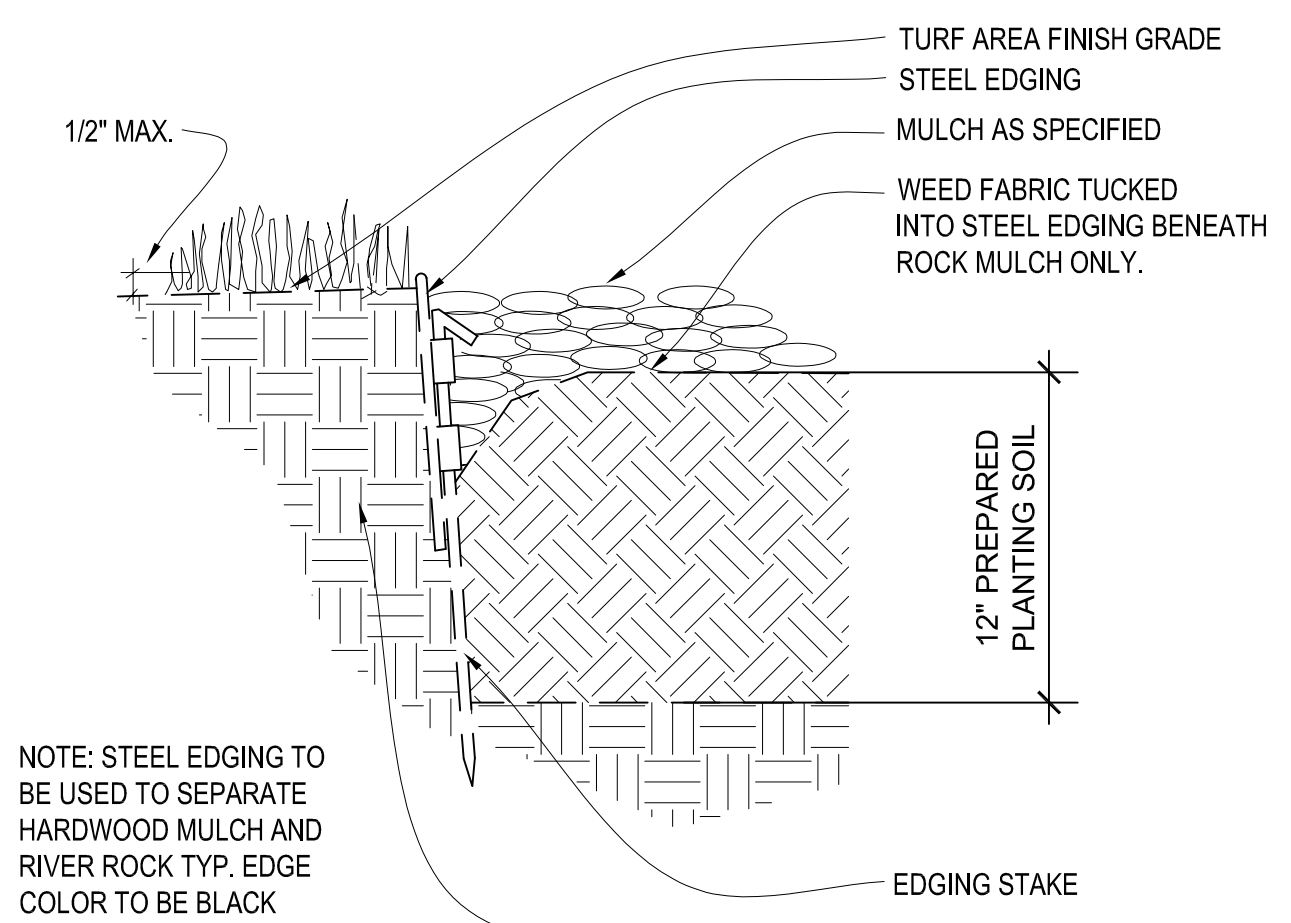
10 PLANT SPACING DETAIL

NOT TO SCALE



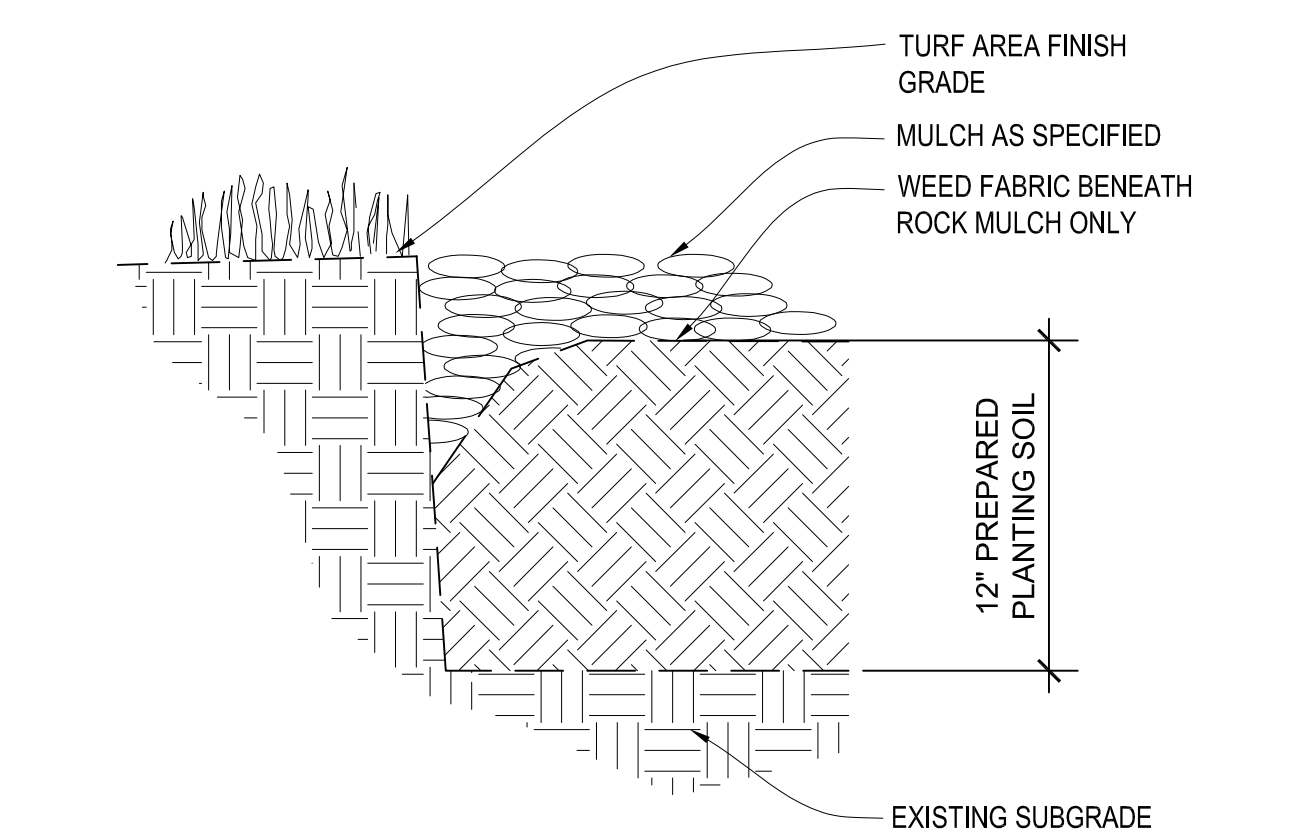
9 DOWNSPOUT/SPLASH BLOCK DETAIL

NOT TO SCALE



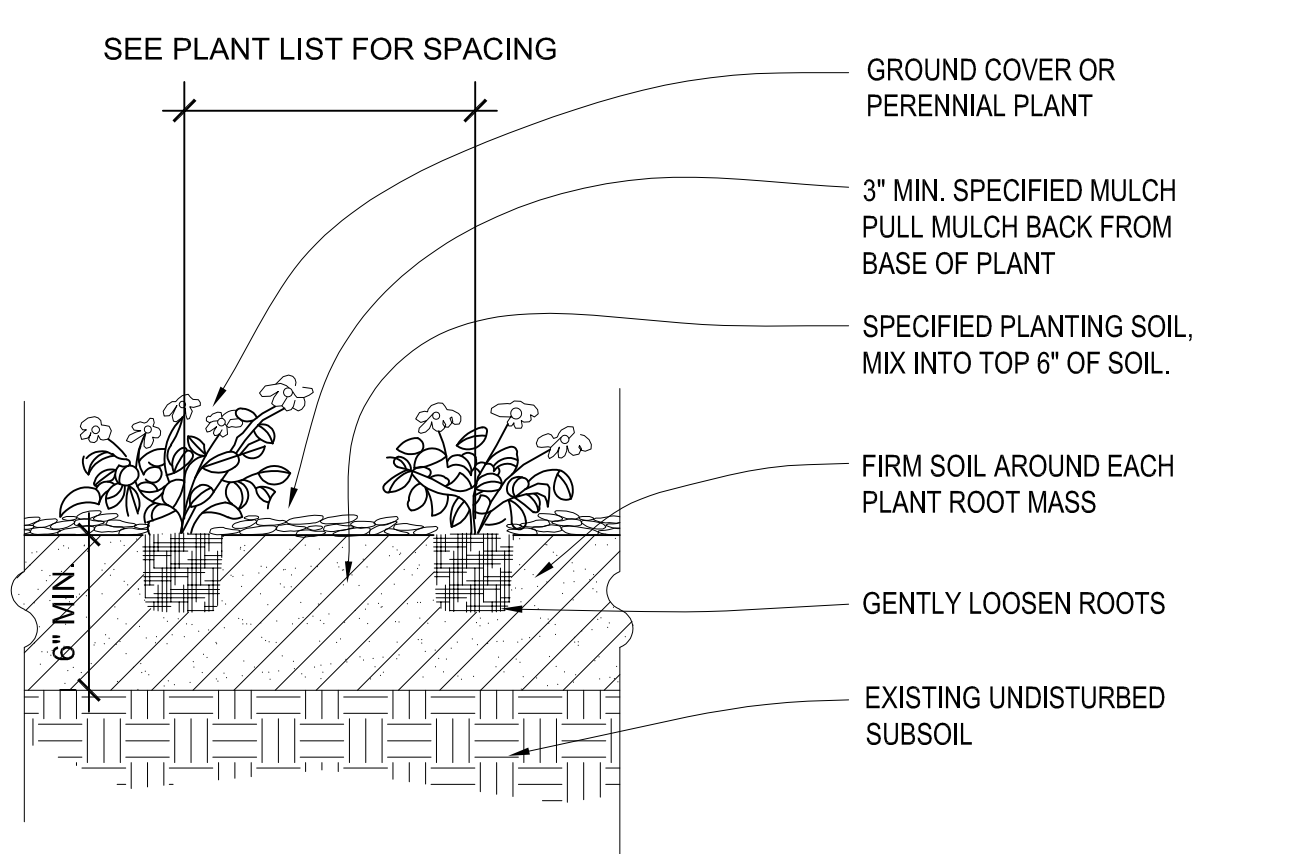
8 STEEL EDGING DETAIL

NOT TO SCALE



7 V-CUT EDGING DETAIL

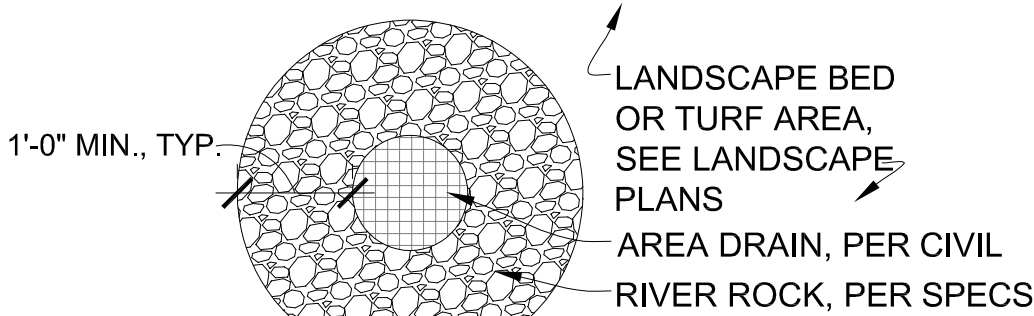
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6 PERENNIAL & GROUND COVER PLANTING

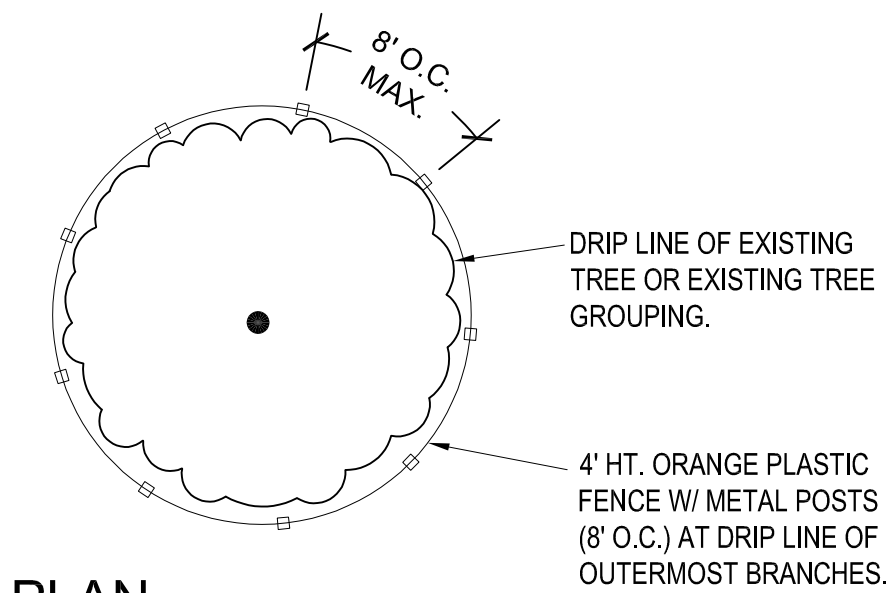
NOT TO SCALE

Inches Between Plants	Plant Quantities Per Square Foot
12"	Square Feet x 1.15
18"	Square Feet x .51
30"	Square Feet x .19
36"	Square Feet x .12
48"	Square Feet x .07



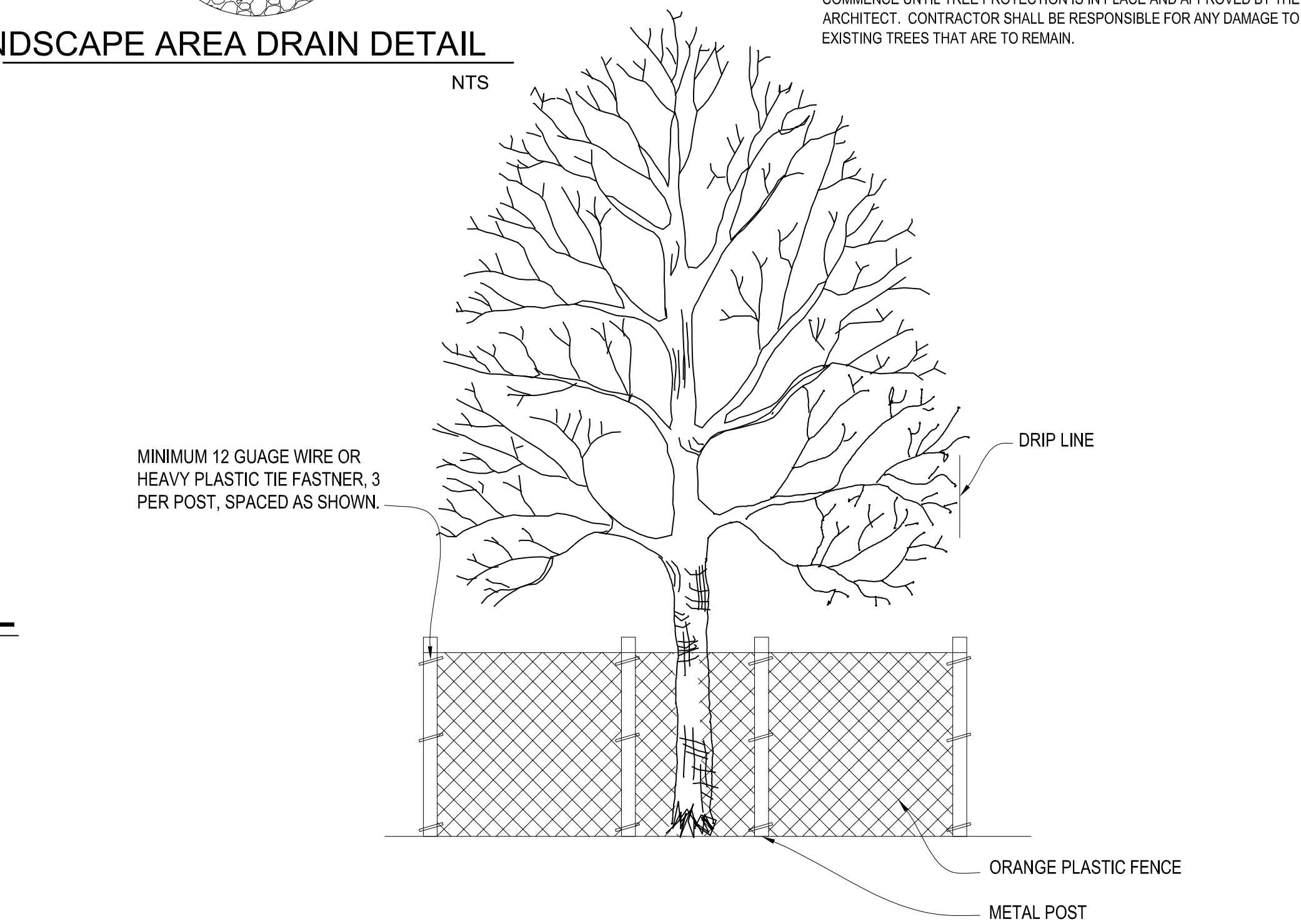
LANDSCAPE AREA DRAIN DETAIL

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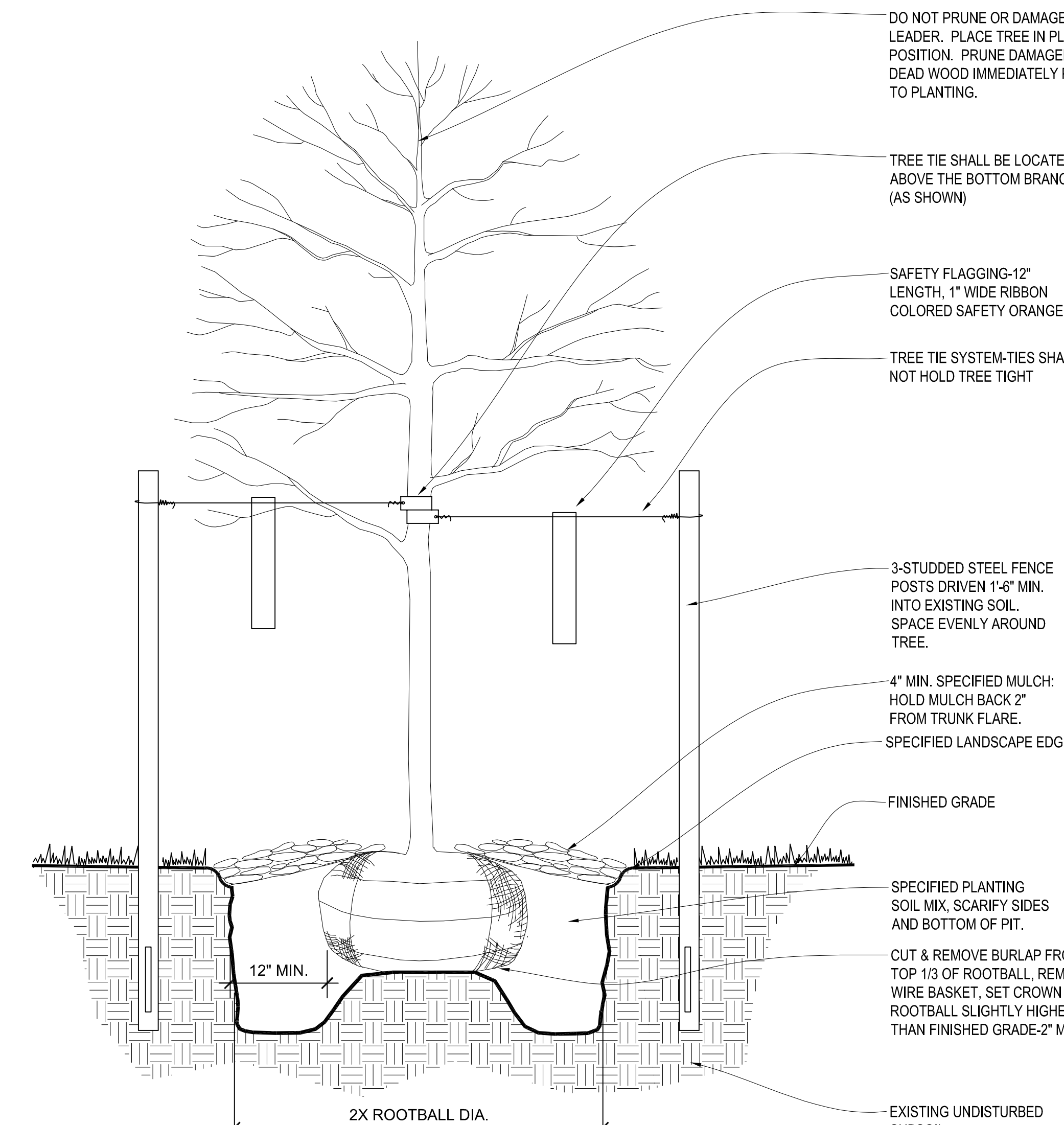
PLAN

NOTE: PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL IDENTIFY, TAG AND PROTECT, EXISTING TREES TO BE SAVED. WORK CANNOT COMMENCE UNTIL TREE PROTECTION IS IN PLACE AND APPROVED BY THE ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING TREES THAT ARE TO REMAIN.



5 TREE PRESERVATION DETAIL

NOT TO SCALE



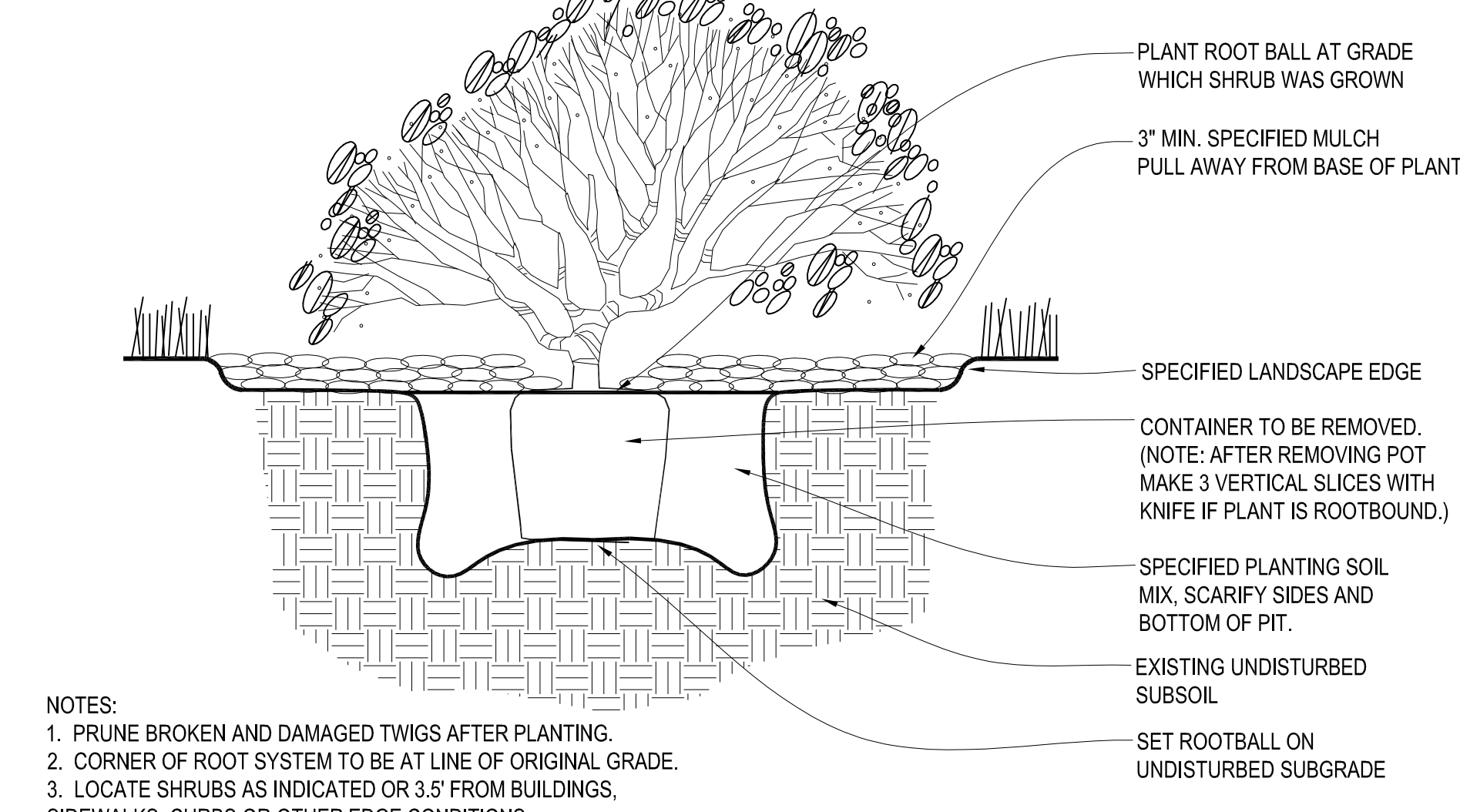
NOTES: 1. ALL DECIDUOUS TREES TO HAVE STRONG CENTRAL LEADER.
2. TREE STAKING AS REQUIRED PER SPECIFICATIONS.

4 DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

3 TYPICAL FREESTANDING PLANTER

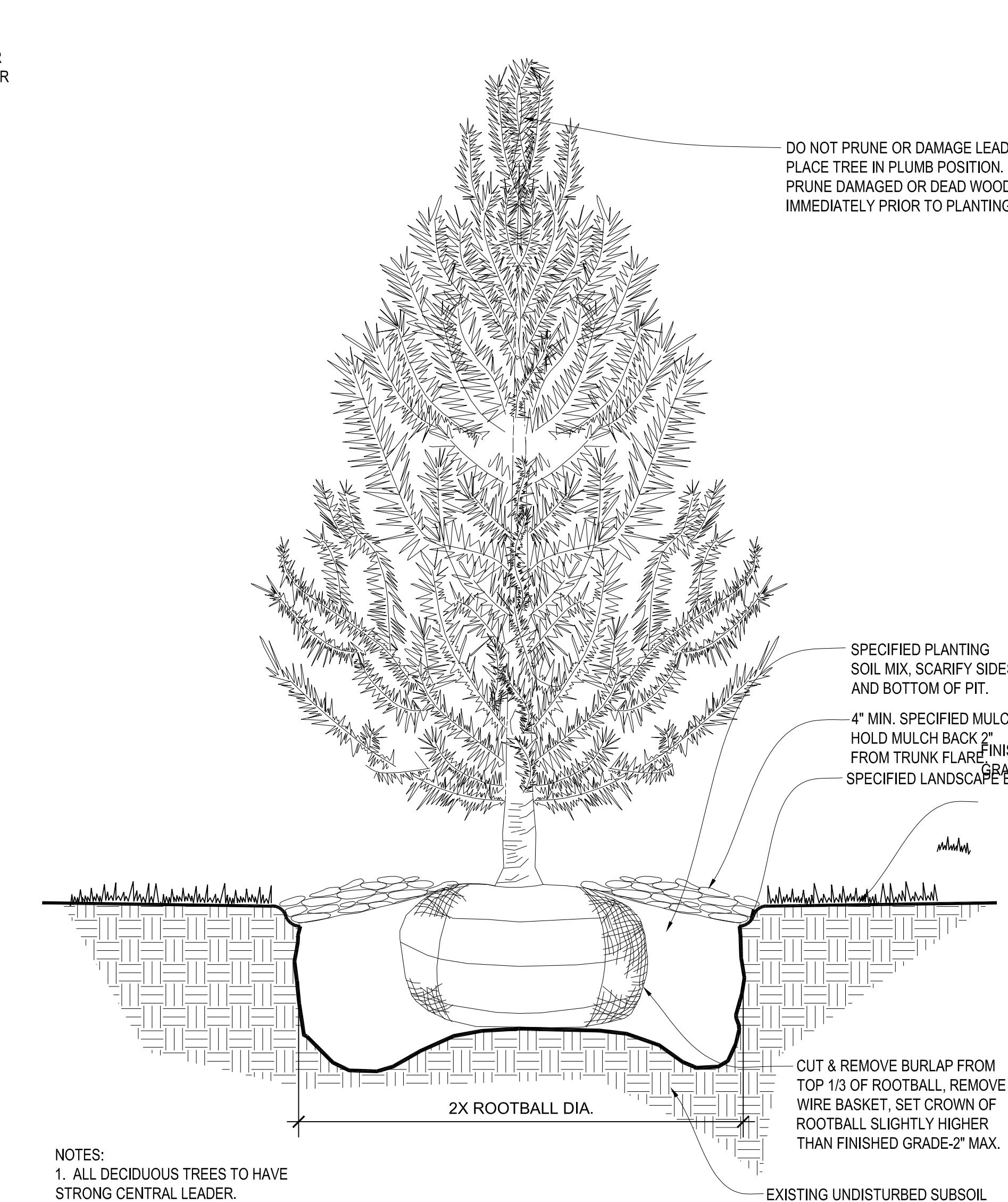
NOT TO SCALE



NOTES: 1. PRUNE BROKEN AND DAMAGED TWIGS AFTER PLANTING.
2. CORNER OF ROOT SYSTEM TO BE AT LINE OF ORIGINAL GRADE.
3. LOCATE SHRUBS AS INDICATED OR 3.5' FROM BUILDINGS, SIDEWALKS, CURBS OR OTHER EDGE CONDITIONS.

2 SHRUB PLANTING DETAIL

NOT TO SCALE



NOTES: 1. ALL DECIDUOUS TREES TO HAVE STRONG CENTRAL LEADER.
2. TREE STAKING AS REQUIRED PER SPECIFICATIONS.

1 EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

GENERAL NOTES:

- EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND EXAMINE THE SITE CONDITIONS. HE SHALL ALSO CAREFULLY EXAMINE THE DRAWINGS FOR THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS, WHICH MAY AFFECT THE PROPOSED WORK.
- THE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSING. EACH PLANT SPECIES MASSING SHALL BE PLACED IN THE FIELD TO UTILIZE GREATEST COVERAGE OF GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - CREeping GROUND COVER SHALL BE A MINIMUM OF 6" FROM PAVING EDGE.
 - ALL TREES SHALL BE A MINIMUM OF 3' FROM PAVING EDGE.
 - ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED APART AND PLACED FOR BEST AESTHETIC VIEWING.
 - ALL SHRUBS SHALL BE A MINIMUM OF 2' FROM PAVED EDGE.
- NOTIFY LANDSCAPE ARCHITECT 1 WEEK PRIOR TO ANTICIPATED START OF PLANT MATERIAL INSTALLATION. LANDSCAPE CONTRACTOR SHALL STAKE ALL PROPOSED PLANTING BED EDGES. SET OUT SHRUBS IN INTENDED LOCATIONS, AND STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY AND ALL PLANT MATERIALS PROPOSED FOR USE ON THE PROJECT.
- CONTRACTOR WILL BE RESPONSIBLE FOR PLANTING ALL PLANT MATERIAL INDICATED ON THE PLANS. PLANT SCHEDULE IS FOR SUMMARY ONLY. VERIFY ALL PLANT QUANTITIES PRIOR TO BIDDING.
- CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF EXISTING TREES & PLANT MATERIAL AS INDICATED ON PLAN AND AS DIRECTED BY LANDSCAPE ARCHITECT. RELOCATE PERENNIALS & SHRUBS TO LOCATION INDICATED ON PLAN AND AS DIRECTED BY LANDSCAPE ARCHITECT.
- REPORT ANY DISCREPANCIES FOUND WITH REGARD TO EXISTING CONDITIONS OR PROPOSED DESIGN IMMEDIATELY TO THE LANDSCAPE ARCHITECT. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHERE IT IS FOUND THAT KNOWN DISCREPANCIES EXIST. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER RELATED SITE WORK BEING PERFORMED TO ACCOMPLISH SITE CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- PLANT MATERIAL SHALL BE MAINTAINED AND GUARANTEED FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE OF FINISHED JOB. ALL DEAD OR DAMAGED PLANT MATERIAL SHALL BE REPLACED AT LANDSCAPE CONTRACTOR'S EXPENSE PRIOR TO ACCEPTANCE. RECOMMENDED DATES FOR PLANT MATERIAL INSTALLATION SHALL BE FEBRUARY 15 - MAY 15 AND SEPTEMBER 15 - DECEMBER 15.
- THE PROJECT MAY BE AWARDED COMPLETION IN PHASES BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNER & LANDSCAPE ARCHITECT WHEN A PHASE IS COMPLETE & A FINAL WALK THROUGH CAN TAKE PLACE. CONTRACTOR SHALL IDENTIFY ON THE PLANS THE LIMITS OF COMPLETED WORK AND/OR PHASES PRIOR TO THE WALK THROUGH.
- LANDSCAPE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL UNTIL FINAL ACCEPTANCE, AT WHICH POINT THE ONE YEAR GUARANTEE BEGINS.
- FINISHED GRADE TO BE TOP OF MULCH OR TURF FOR ALL LANDSCAPE AREAS. REFER TO CIVIL PLANS FOR GRADING INFORMATION.

MATERIALS:

- PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF DISEASE AND INSECTS AS PER AMERICAN ASSOCIATION OF NURSERMEN STANDARDS.
- PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION. AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED TO UNIFORMITY.
- SHREDDED BARK MULCH SHALL BE FINELY CHIPPED AND SHREDDED DARK BROWN HARDWOOD CHIPS CONSISTING OF PURE WOOD PRODUCTS AND FREE OF ALL FOREIGN SUBSTANCES.
- CONTRACTOR SHALL USE AN APPROVED TREE TIE SYSTEM THAT IS EASILY ADJUSTABLE, STRONG IN ALL WEATHER, AND EASILY ATTACHED AND REMOVED. HOSE AND WIRE ARE NOT ACCEPTABLE FOR STAKED TREES. PROVIDE THE FOLLOWING OR APPROVED EQUAL: "VINYL TIES" BY L. L. LUTHER, "HULA-TYPE" BY HEAVYWEIGHT ONLY, A PLASTIC CHAIN TWIST TIE, OR "PLASTIC BINDER TIE" A TIE WITH TAPERED BEADS THAT SNAP LOCK BY A.M. LEONARD AND SONS.
- SOD SHALL BE CERTIFIED TURFGRASS SOD COMPLYING WITH ASPA SPECIFICATIONS FOR MACHINE-CUT THICKNESS, SIZE, STRENGTH, MOISTURE CONTENT, AND MOVED HEIGHT, AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. SOD SHALL BE A BLEND OF NOT LESS THAN 3 IMPROVED KENTUCKY BLUEGRASS (POSPARATENSIS) VARIETIES, A NATIVE MIXTURE OF BOUNDARIES, REBEL, OR FALCON, FINE LEAFED TALL FESCUE (FESTUCA ARUNDINACEA), AND RYE (LOLIUM MULTIFLORUM AND PERENE DOMESTICA). IT SHALL BE A MIX OF 20% KENTUCKY BLUEGRASS, 70% FINE LEAFED TALL FESCUE, AND 10% RYE. SOD SHALL BE WELL ROOTED, 2 YEAR OLD STOCK, HARVESTED IN ROLLS, FERTILIZED 2-3 WEEKS PRIOR TO CUTTING. ALL SOD SHALL BE MACHINE CUT AND VIGOROUSLY GROWING (NOT DORMANT). MAXIMUM TIME FROM STRIPPING TO PLANTING SHALL BE 24 HOURS.
- ALL NEW PLANT BED AREAS TO BE IRRIGATED. REFER TO SPECIFICATIONS.
- STEPPING STONES SHALL BE JAMES CREEK (RECTILINEAR OR ASHLAR AS IDENTIFIED IN THE PLANS), BY HOUSE OF ROCKS OR APPROVED EQUAL. 1"-3" THICK.
- ROCK BEDS SHALL BE BUFFALO RIVER ROCK, 1"-2.5", BY HOUSE OF ROCKS OR APPROVED EQUAL. ALL ROCK BED AREAS SHALL HAVE FILTER FABRIC & BE 4" MIN. DEPTH.

INSTALLATION:

- STRIP TOP SOIL & SAVE FOR PLANTING AREAS. EXCAVATE TO A DEPTH OF 12" FOR ALL PLANTING BEDS AND REPLACE WITH PLANTING SOIL MIX. A 10-15-10 FERTILIZER SHALL BE SPREAD OVER ALL PLANTING AREAS PRIOR TO PLANTING, AT A RATE OF 50 POUNDS PER 2,000 SQUARE FEET.
- AFTER PLANTS HAVE BEEN INSTALLED, ALL PLANTING BEDS SHALL BE TREATED WITH DACTHAL PRE-EMERGENT HERBICIDE PRIOR TO MULCH APPLICATION.
- PLANT PIT BACKFILL FOR TREES AND SHRUBS SHALL BE 25% COTTON BOLL COMPOST, AND 25% TOPSOIL, AND 50% EXISTING SOIL. TOPSOIL SHALL BE NATURAL FERTILE, FRIABLE SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE PRODUCTIVE SOILS IN THE AREA. SOIL SHALL NOT BE EXCESSIVELY ACID, ALKALINE OR TOXIC THAT MAY BE HARMFUL TO PLANT GROWTH. ALSO, FREE OF CLAY LUMPS, STONES, STUMPS, ROOTS OR SUBSTANCE 2" OR MORE IN DIAMETER.
- PLANTED BED EDGES SHALL BE IN STRAIGHT LINES OR GENTLE FLOWING CURVES. SUDDEN CURVES OR SHARP ANGLES SHOULD BE AVOIDED.
- V-CUT EDGE SHALL BE DUG TO 6" DEPTH WITH ANGLED EDGE ON LANDSCAPE BED SIDE, AND VERTICAL EDGE ON TURF SIDE. BACKFILL V-CUT EDGE WITH SHREDDED HARDWOOD MULCH TO GRADE.
- MULCH ALL PLANTING BED AREAS TO A MINIMUM DEPTH OF 3". MULCH INDIVIDUAL TREES TO A MINIMUM DEPTH OF 4".

IRRIGATION PERFORMANCE SPECIFICATIONS:

PROVIDE 100% COVERAGE COMPLETE WORKING IRRIGATION SYSTEM FOR ALL NEW TURF AREAS (SEED AND/OR SOD), ALL NEW PLANTING BEDS, AND ALL NEW TREES AND EXISTING TREES TO REMAIN. INCLUDE ELECTRICAL CONNECTION AND IRRIGATION SLEEVES AS NECESSARY. DRY IRRIGATE ALL PLANTING BEDS. PRIOR TO INSTALLATION, PROVIDE PLAN SHOWING ALL IRRIGATION MATERIALS INCLUDING ALL EQUIPMENT SIZES AND DETAILS TO LANDSCAPE ARCHITECT FOR APPROVAL. COMPLY WITH REQUIREMENTS OF AUTHORITY WITH JURISDICTION FOR IRRIGATION SYSTEMS & BACKFLOW PREVENTOR. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TO LANDSCAPE ARCHITECT & OWNER AFTER FINAL INSTALLATION AND PRIOR TO FINAL ACCEPTANCE INCLUDING ALL HEAD & EQUIPMENT LOCATIONS & MAINTENANCE DATA FOR ALL EQUIPMENT PROVIDED. CONTRACTOR SHALL PROVIDE AN ON-SITE WALK THROUGH OF THE SYSTEM AND FULLY DESCRIBE ITS OPERATION WITH OWNER. CONTRACTOR SHALL ACHIEVE FINAL ACCEPTANCE WHEN SYSTEM IS FULLY OPERATIONAL, AND APPROVED BY OWNER, AND AS-BUILT DRAWINGS AND PROJECT MANUALS HAVE BEEN ACCEPTED AND APPROVED.

PIPING SPECIFICATIONS:

- MINIMUM WORKING PRESSURE RATINGS:
 - PRESSURE PIPING: 150 PSIG (1035 KPA).
 - CIRCUIT AND DRAIN PIPING: 100 PSIG (680 KPA).
- MAIN LINE TO BE CL-200 POLYVINYL CHLORIDE PIPE OR ASTM D 1785, PVC 1120, SCHEDULE 40, SOCKET-TYPE FITTINGS, AND SOLVENT-CEMENTED JOINTS OR APPROVED EQUAL.
 - PIPE UP TO AND INCLUDING 2-1/2 INCHES IN DIAMETER SHALL HAVE BELL AND SOCKET JOINTS.
 - PIPE GREATER THAN 2-1/2 INCHES IN DIAMETER SHALL HAVE SNAP CONNECTIONS WITH RUBBER GASKET JOINTS.
 - THRUST BLOCKS SHALL BE REQUIRED IN CONJUNCTION WITH RUBBER GASKET JOINT PIPE.
- LATERAL LINES TO BE CL-200 PVC PIPE OR APPROVED EQUAL.
- DRAIN TUBING: POLY TUBING OR APPROVED EQUAL.
- SLEEVES: MINIMUM DIAMETER OF 2 TIMES LARGER THAN THE PIPE OR PIPE(S) SCHEDULED TO PASS THROUGH THEM. SLEEVES SHALL BE A MINIMUM OF 2 INCH DIAMETER AND SHALL BE SCHEDULE 40 PVC PIPE.
- PLASTIC FITTINGS:
 - UTILIZED THROUGHOUT THE SYSTEM (MAINS AND LATERALS) IN WARM CLIMATES AND MAIN LINES IN COLDER CLIMATES: SCHEDULE 40 PVC PIPE.
 - UTILIZED FOR LATERALS OF FLEXIBLE POLYETHYLENE PIPE, TYPE 1 PVC INSERT FITTINGS DESIGNED FOR USE WITH THIS TYPE OF PIPE CONFORMING TO ASTM D 2000.
 - PIPE AND FITTINGS SHALL BE JOINED WITH STAINLESS STEEL LOCKING PINCH CLAMPS OR STAINLESS STEEL SCREW CLAMPS.
- MINIMUM COVER:
 - IN LAWN AND PLANTING AREAS:
 - MAINS - MINIMUM 18 INCHES BELOW FINISH GRADE.
 - LATERALS AND CONTROL VALVES - MINIMUM 12 INCHES BELOW FINISH GRADE.
 - ROADWAYS OR PARKING AREAS: MINIMUM 24 INCHES BELOW FINISH GRADE.
- CLEARANCES: MINIMUM OF 3-INCHES BETWEEN PARALLEL LINES IN THE SAME TRENCH OR VERTICAL CLEARANCE BETWEEN LINES CROSSING AT ANGLES.