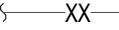










FLOOR PLAN SYMBOLS	
SYMBOL	DESCRIPTION
PIPING ANNOTATION	
	SYSTEM DESIGNATION
	HYDRAULIC REFERENCE POINT (NODE)
	HYDRAULIC CALCULATION AREA
MISCELLANEOUS	
	NON-SPRINKLERED AREA
	KEYNOTE
	X = SYSTEM TYPE Y = REVEN NUMBER DWG = DRAWING NUMBER
SPRINKLERS	
	PENDENT FRAME SPRINKLER
	UPRIGHT FRAME SPRINKLER
	SIDEVALL FRAME SPRINKLER

ABBREVIATIONS	
GENERAL	
AV	AUDIOVISUAL
ACT	AUTOCLIMATING
AFE	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALI	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT
BB	BOTTOM OF
BOR	BOTTOM OF RISER
CL	CENTLINE
DN	DOWN
DEG	DEGREES
DWG	DRAWING
ELEC	ELECTRICAL
ELEV	ELEVATOR
EX	EXISTING
FA	FIRE ALARM
FP	FIRE PROTECTION
FT	FEET
GPM	GALLONS PER MINUTE
GWB	GYPSUM WALL BOARD
HT	INVERT
LTO	LIGHTING
LVS	LOW VOLTAGE AUDIOVISUAL SECURITY
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECH. ELEC. PLUMB. FF. FA. LV. ETC.
MIN	MINIMUM
N/A	NOT APPLICABLE
NKS	NO KEY
NO	NO AUTOMATIC SPRINKLER
NC	NORMALLY
NTS	NOT IN CONTRACT
OED	NOT TO SCALE
PLBS	OPENING BRAN
SOFT	PLUMBING
TS&P	SQUARE FEET
TOR	TEMPERATURE
TYP	TYPICAL
W	WITH
SYSTEMS	
CMST	COMBINATION WET-PIPE STANDPIPE
FDC	FIRE DEPARTMENT CONNECTION
SD	SPRINKLER
TH	TIRE PUMP TEST HEADER
WT	WET PIPE
WFM	WET-PIPE FEED MAN
WSP	WET-PIPE SPRINKLER
EQUIPMENT	
ARV	AR RELEASE VALVE
BP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
CKV	CHECK VALVE
DVA	DOUBLE CHECK VALVE ASSEMBLY
DNV	DRAIN VALVE
FHV	FIRE HOSE VALVE
FM	FLOW METER
FRM#	FIRE RAMP
FRM#	FIRE RAMP CONTROLLER
MDV	MAIN DRAIN VALVE
OSV	OS&Y CHECK VALVE
PS	PRESSURE GAUGE
PM#	MAIN DRAIN PRESSURE PUMP
PMP#	PRESSURE MAINTENANCE PUMP
PREV	CONTROLLER
PRV	PRESSURE RELIEF VALVE
PS	PRESSURE REGULATING VALVE
PRV	PRESSURE RELIEF VALVE
TS	TEST & DRAIN VALVE
TS	TEST HEADERS
TSW	TAMPER SWITCH
ZCA	ZONE CONTROL ASSEMBLY

GENERAL REQUIREMENTS

1. THE FIRE PROTECTION ENGINEERING DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE ABSOLUTELY PRECISE NOR INDICATE ANY REQUIRED SYSTEM COMPONENT. THEY REPRESENT A SUMMARY OF CONCEPT AND INDICATE THE MAIN SYSTEM COMPONENTS.
2. PRIOR TO SUBMITTING THE BID THE INSTALLING CONTRACTOR SHALL REVIEW THE WORK LOCATED ON THE FIRE PROTECTION ENGINEERING DRAWINGS FOR DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION (HEREAFTER) SHALL REVIEW AND CAREFULLY EXAMINE THE SITE WITH THE ENGINEERING CONSULTANT TO DETERMINE EXISTING CONDITIONS AND IDENTIFY DEFICIENCIES THAT MAY AFFECT THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL SCOPE CAUSED BY UNLAWFULITY WITH SITE CONDITIONS THAT ARE READILY OBSERVABLE OR CONTRIBUTED BY AN EXPERIENCED OBSERVER.
3. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL SYSTEM COMPONENTS TO PRELIMINARY LOCATIONS INDICATED ON THE DRAWINGS AND HEIGHTS AND COORDINATE WITH THE FIRE PROTECTION SYSTEM ENGINEER TO CORRECT ANY DISCREPANCIES. THE WORKING PANS (SHOP DRAWINGS) REFLECT TO DOCUMENT AND SUBMITTAL REQUIREMENTS FOR THIS DRAWING FOR ADDITIONAL INFORMATION.
4. APPLICABLE DOCUMENTS BEYOND THE ENGINEERING DRAWINGS:
 - A. EXISTING INSTALLATION, STANDARD SPECIFICATIONS LOCATED ON THE DRAWING.
 - B. ELECTRICAL, MEP AND FIRE ALARM DRAWINGS.
 - C. PROJECT MANUAL, (TECHNICAL SPECIFICATIONS)
 - D. FIRE PROTECTION HYDRAULIC CALCULATIONS
 - E. PRODUCT MANUFACTURER'S REQUIREMENTS
5. THE CONTRACTOR SHALL GUARANTEE IN WRITING THAT ALL WORK AND EQUIPMENT ASSOCIATED WITH THIS PROJECT FOR ONE (1) YEAR AFTER INSTALLATION REFLECT THE TECHNICAL SPECIFICATION FOR AN ADDITIONAL WARRANTY PERIOD.

SCOPE OF WORK

THE SCOPE OF WORK (REFERRED TO AS "THE WORK" HEREAFTER) INCLUDES THE INSTALLATION OF A WET PIPE SPRINKLER SYSTEM CLASS 1(AUTOMATIC) STANDBY/STRIKE SYSTEM AND FIRE-RESISTANT FIRE PUMP SYSTEM AS INDICATED ON THE DRAWINGS.

THE WORK INCLUDES FURNISHING AND INSTALLING ALL SPRINKLERS, RISERS, FITTINGS, HANGERS, AND ACCESSORIES. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING: THE WORK SHALL INCLUDE THE FOLLOWING COMPONENTS IN AREA OF THE BUILDING REPRESENTED ON THE ENGINEERING DRAWINGS TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL.

1. THE WORK INCLUDES PRESTOPPING OF ALL PENETRATIONS THROUGH FIRE-RESISTANCE RATED BARRIERS.
2. THE WORK INCLUDES PREPARATION AND SUBMITTAL DOCUMENTS & SUBMITTALS BASED ON THE PROJECT REQUIREMENTS.
3. THE WORK INCLUDES PERFORMANCE RATED WALL, FLOOR, CEILING AND COMMISSIONING ACTIVITIES OUTLINED IN NFPA 25.
4. THE WORK INCLUDES TRAINING OWNER'S PERSONNEL ON THE OPERATION OF THE SYSTEM. REQUIRED MAINTENANCE TASKS AND REQUIREMENTS AND THE LOCATION OF ALL VALVES, HANDS, TOOLS AND EQUIPMENT. VALVES, ALARM AND SUPERVISORY SWITCHES, RISERS AND EQUIPMENT NECESSARY TO MAINTAIN AND OPERATE THE SPRINKLER SYSTEM.

DOCUMENT AND SUBMITTAL REQUIREMENTS

1. THE FIRE PROTECTION ENGINEERING DRAWINGS ARE "PRELIMINARY PAGES" AS DEFINED BY NFPA. THEY HAVE BEEN PREPARED FOR SUBMISSION TO THE AUTHORITY HAVING JURISDICTION IN ORDER TO OBTAIN A BUILDING PERMIT AND ARE THE BASIS OF DESIGN FOR THE PROTECTION OF THE WORKING PLANT. THE DRAWINGS WILL INCLUDE A REPRESENTATION OF HAZARDS TO BE PROTECTED, THE SYSTEM DESIGN, DESIGN CRITERIA, DESIGN AND WATER SUPPLY CALCULATIONS, THESE DRAWINGS WILL INCLUDE ALL DIMENSIONS AND ARRANGEMENTS OF MAJOR COMPONENTS INCLUDING BUT NOT LIMITED TO THE LOCATION OF THE SPRINKLER HEADS. THESE DRAWINGS ARE NOT INTENDED TO BE USED FOR INSTALLATION OR TO OBTAIN INSTALLATION PERMITS.
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TO THE AUTHORITY HAVING JURISDICTION THE ENGINEERING COMPLETE SUBMITTAL PACKAGE INCLUSIVE OF PRODUCT DATA SHEETS, WORKING DRAWINGS, SCHEDS AND SCHEDULES, AND THE ENGINEERING COMPLETE SUBMITTAL PACKAGE SHALL INCLUDE INFORMATION REQUIRED BY THE TECHNICAL SPECIFICATIONS AND THE APPLICABLE NFPA STANDARDS INDICATED ON THE DRAWINGS.
3. THE WORKING PLANS AND HYDRAULICAL CALCULATIONS SHALL BE PREPARED UNDER THE SUPERVISION OF A QUALIFIED ENGINEERING TECHNICIAN OR PROFESSIONAL ENGINEER. THE WORKING PLANS SHALL LOCATE THE TECHNIQUES AND METHODS OF PROTECTION. THE ENGINEER'S CERTIFICATION OR REGISTRATION NUMBER, WHERE THE LOCAL JURISDICTION REQUIRES IT, SHALL BE INDICATED ON THE DRAWINGS. IF A PROFESSIONAL ENGINEER THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER.
4. THE CONTRACTOR SHALL PREPARE AND SUBMIT ALL ADDITIONAL FORMS AND DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND PAY THE NECESSARY FEES ASSOCIATED WITH THE INSTALLATION PERMIT APPLICATION.
5. CHANGES IN THE LOCATION OF SYSTEM COMPONENTS INCLUDING BUT NOT LIMITED TO SPLICERS AND VALVES/ FROM THOSE INDICATED ON THE APPROVED DRAWINGS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE AUTHORITY HAVING JURISDICTION ISSUES HUGHES PRIOR TO INSTALLATION ALL CHANGES FROM THE APPROVED SHOP DRAWINGS. THE APPROVED CHANGES WILL BE INDICATED BY THE AUTHORITY HAVING JURISDICTION ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE RELOCATORS OR ADDITIONAL COMPONENTS REQUIRED FOR A FULL COMPLIANT INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE AS A RESULT OF THE CHANGES SHALL BE FURNISHED AND INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE CITY SPECIFIC MOUNTING AND BRACING REQUIREMENTS FOR THE BUILDING DURING CONSTRUCTION OF SUCH AS NEW LIGHTS, DROP CABLES ETC. AND NOTIFY THE CITY OF ANY CHANGES AS REQUIRED FOLLOWING THE DURATION OF CONSTRUCTION.
7. THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL THE FOLLOWING CLOSEOUT DOCUMENTATION:
 - A. A COMPLETE RECORD DRAWING PACKAGE BEARING "RECORD DRAWING" IN ALL CAPS. THE RECORD DRAWING SHALL BE THE SECOND DATE OF CREATION. THE RECORD DRAWING PACKAGE SHALL INCLUDE SITE SPECIFIC MODIFICATIONS REQUIRED DURING CONSTRUCTION.
 - B. APPLICABLE SYSTEMS ACCEPTANCE DOCUMENTATION REQUIRED BY THE APPLICABLE NFPA STANDARDS.
 - C. COMPLETE PRODUCT DATA SUBMITTAL PACKAGE INCLUSIVE OF ALL INSTALLED MATERIALS.
 - D. OPERATIONAL MAINTENANCE MANUALS.

FIRE PROTECTION SYSTEM INSTALLATION REQUIREMENTS

GENERAL

COORDINATE INSTALLATION ACTIVITIES WITH OTHER DIVISIONS OF PROJECT TO AVOID EXISTING CONDITIONS, HAVE REASONABLE AND NECESSARY MODIFICATIONS TO THE SYSTEM INSTALLATION REQUIRED TO PREVENT CONFLICTS WITH OTHER DIVISIONS OF WORK AND IN ORDER TO MEET ALL CODE REQUIREMENTS. COORDINATE WITH OTHER DIVISIONS OF WORK TO MAINTAIN AND MAINTENANCE FOR ALL BUILDING SYSTEMS AND CODE MINIMUM HEADROOM.

2. ALL COMPONENTS SHALL BE NEW UNLESS OTHERWISE NOTED AND BE LISTED AND APPROVED BY THE AUTHORITY.

3. INSTALL SYSTEMS IN AN EFFICIENT AND RECTILINEAR ARRANGEMENT WITH COMPONENTS PERPENDICULAR AND PARALLEL TO BUILDING WALLS, CEILINGS, STRUCTURE AND SIMILAR ELEMENTS UNLESS OTHERWISE NOTED. ALL LINES AND PIPING SHALL BE INSTALLED CONFINED ABOVE FINISHED CEILINGS.

4. ALL CONTROLS / TEST / DRAIN VALVES SHALL BE INSTALLED WITH INDICATOR VISIBLE FROM THE FLOOR BELOW AND SUCH THAT THEY ARE READY FOR ACCESSIBLE AND EASY TO REACH FOR INSPECTION TESTING AND MAINTENANCE. ALL VALVES SHALL BE INSTALLED AT A LOCATION ACCESSIBLE FROM AN FLOOR LEVEL.

5. IDENTIFICATION (INCLUDING BUT NOT LIMITED TO VALVE TAGS, GENERAL INFORMATION SIGNS) AND HYDRAULIC SIGNS SHALL BE PROVIDED AS REQUIRED BY THE APPLICABLE CODES AND STANDARDS. THE FIRE DEPARTMENT / ALL CONTROL / TEST / DRAIN VALVES, RISERS AND EQUIPMENT, A RIGID PLASTIC SIGN INDICATING THE LOCATION OF ALL VALVES, THE AREA PROTECTED BY THE CONTROL / VALVE SHALL BE PROVIDED AND INSTALLED AT THE MAIN SYSTEM RISERS).

6. ARRANGE PIPING TO DRINK BACK TO MAIN DRAIN VALVE FOR EACH SYSTEM. PIPING SHALL BE INSTALLED TO MINIMIZE THE REQUIREMENT FOR TUBULAR DRAINS. PROVIDE TUBULAR DRAINS FOR EACH SYSTEM FOR TRAPPED SECTIONS OF PIPING. THEY SHALL BE INSTALLED IN LOCATIONS APPROVED BY THE OWNER.

7. PROVIDE SLEEVES, SLEEVES SLATS, ESCUTCHIONS AND LINED STOPPING SYSTEMS AT ALL FLOOR FLOOR PENETRATIONS AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.

8. PIPING SHALL BE SUPPORTED VIA LISTED HANGERS AND SUPPORTS ATTACHED DIRECTLY TO BUILDING STRUCTURE. ATTACHMENT SHALL NOT BE MADE TO METAL BOARDS, JOISTS, NON-DESIGNED / WORK OR NON-BUILDING STRUCTURAL ELEMENTS.

9. THREADED HANGER RODS SHALL NOT BE FORMED OR BENT. CONTRACTIONS SHALL REPLACE ANY EXISTING / NEW RENT ROD WITHIN THE AREA OF WORK WITH NEW.

AUTOMATIC SPRINKLER SYSTEM

CONCENTRIC FITTINGS SHALL BE UTILIZED FOR PIPING SIZE TRANSITIONS AND SPRINKLER HEADS SHALL BE INSTALLED AS SPECIFIED PROHIBITED.

2. COORDINATE SPRINKLER TEMPERATURE RATINGS BASED UPON ANTICIPATED AMBIENT TEMPERATURE, SOURCES OF HEAT OR OTHER LOCATIONS SUCH AS BRIGHT LIGHTS OR HEAT RAYS WITHIN 15' OF THE SPRINKLER HEAD OR EQUIPMENT OR OTHERS SHALL BE SPECIFICALLY IDENTIFIED.

3. PROVIDE LISTED GAUGES ON SPRINKLERS IN LOCATIONS PRONE TO DAMAGE SUCH AS MECHANICAL ROOMS, STORAGE ROOMS, SPRINKLERS INSTALLED LESS THAN 7' FT AFF AND SIMILAR AREAS.

4. PROVIDE A CABINET WITH SPARE SPRINKLERS AND A LIST OF SPARE SPRINKLERS AS REQUIRED BY NFPA 13.

5. PROVIDE SPRINKLER PROTECTION ABOVE AND BELOW CEILING. REFERS TO ARCHITECTURAL, RISE FOR ADDITIONAL INFORMATION.

STANDPIPE SYSTEM

1. PROVIDE DRAIN VALVES AT THE BASE OF EACH STANDPIPE AND DRAIN PIPING.

2. PROVIDE AIR RELEASE VALVES AND PRESSURE GAUGES WITH THREE WAY VALVES AND DRAIN PLUGS AT THE TOP OF EACH STANDPIPE.

PIPING SCHEDULE		
SYSTEM(S)	APPLICATIONS	REQUIRED PIPE & FITTINGS
STANDARD-PRESSURE WET-PIPE FIRE SUPPRESSION	WET-PIPE SPRINKLER MAINS AND BRANCHES SUPPLYING SPRINKLERS IN RESIDENTIAL CORRIDORS AND DWELLING UNITS WHERE CONCEALED ABOVE FINISHED CEILINGS.	CPVC PIPE WITH PLAIN ENDS, SCHEDULE 40 CPVC SOCKET TYPE FITTINGS FOR NPS 1/2 TO NPS 1-1/2, SCHEDULE 80 CPVC SOCKET TYPE FITTINGS FOR NPS 2 TO NPS 3, AND SOCKET-CEMENTED JOINTS.
STANDARD-PRESSURE WET-PIPE FIRE SUPPRESSION	WET-PIPE SPRINKLER, 2" AND SMALLER (NON-RESIDENTIAL AREAS)	SCHEDULE 40 BLACK STEEL PIPE WITH THREADED ENDS, UNCOATED THREADED FITTINGS, AND THREADED JOINTS.
STANDARD-PRESSURE WET-PIPE FIRE SUPPRESSION	WET-PIPE SPRINKLER AND STANDARD PIPING 2 1/2" AND LARGER (NON-RESIDENTIAL AREAS)	PERMISSIBLE PIPE AND FITTINGS FOR 2" AND SMALLER OR SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, GROOVED-END FITTINGS, PIPE COUPLINGS AND JOINTS.
HIGH-PRESSURE WET-PIPE FIRE SUPPRESSION	STANDARD PIPE AND DISTRIBUTION PIPING 2 1/2" AND LARGER	SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, GROOVED-END FITTINGS, PIPE COUPLINGS AND JOINTS.
STANDARD-PRESSURE DRY-PIPE FIRE SUPPRESSION	DRAIN PIPING 2" AND SMALLER	GALVANIZED SCHEDULE 40 STEEL PIPE WITH THREADED JOINTS, GALVANIZED THREADED FITTINGS, AND GALVANIZED THREADED JOINTS.
STANDARD-PRESSURE DRY-PIPE FIRE SUPPRESSION	DRAIN, TEST HEADER AND FDC PIPING 2 1/2" AND LARGER	PERMISSIBLE PIPE AND FITTINGS FOR 2" AND SMALLER OR SCHEDULE 40 GALVANIZED STEEL PIPE WITH CUT-GROOVED ENDS, FACTORY COATED GROOVED-END FITTINGS, PIPE COUPLINGS AND JOINTS.

SPRINKLER SCHEDULE						
APPLICATION(S)	TYPE	FRAME(S)	RESPONSE	K-FACTOR(S)	FINISH	
BACK OF HOUSE SPACES WITH EXPOSED CEILINGS	STANDARD SPRAY, EXPOSED	UPRIGHT, PENDENT & BORDWALL	QUICK	5.6, 8.0"	BRASS	
NON-RESIDENTIAL SPACES WITH FINISHED CEILINGS	STANDARD SPRAY, CONCEALED WITH FLAT COVERPLATE		QUICK	5.6, 8.0"	SEE NOTE 1	
RESIDENTIAL DWELLING UNITS AND ADJOINING CORRIDORS	RESIDENTIAL SPRAY, CONCEALED WITH FLAT COVERPLATE	PENDENT	FAST	4.9	SEE NOTE 2	
*PROVIDE K-8.0 SPRINKLERS FOR ORDINARY HAZARD GROUP 2 OCCUPANCIES.						
NOTES:						
1. PROVIDE CUSTOM COLORED COVERPLATES FOR METAL CEILING IN THE DINING'S LOUNGE OR TOWER 2.						
2. PROVIDE SQUARE COVERPLATES FOR SPRINKLERS WITH WHITE FINISHES FOR GPVSUIN AND ACT CELINGS AND BLACK FOR WOOD CEELINGS.						
3. PROVIDE SQUARE COVERPLATES FOR SPRINKLERS WITH WHITE FINISHES FOR GPVSUIN CELINGS AND BLACK FOR WOOD CEELINGS.						

SPRINKLER SYSTEM DESIGN CRITERIA - NFPA 13					
APPLICABLE AREAS	OCCUPANCY HAZARD	MAX AREA PER SPRINKLER (SQFT)	DISCHARGE TENACITY (GPM/SQFT)	AREA OF SPRINKLER OPERATION (SQFT)	HOSE STREAM ALLOWANCE (GPM)
APARTMENTS, CORRIDORS, BATHROOMS, OFFICES, RESTAURANT, COMMON AREAS & SIMILAR	LIGHT HAZARD	225	0.10	1500	100
MECHANICAL, ELECTRICAL, TEL/DATA, PARKING, KITCHEN	ORDINARY HAZARD GROUP 1	130	0.15	1500	250
STORAGE UNDER 12 FT	ORDINARY HAZARD GROUP 2	100	0.20	1500	250
RESIDENTIAL DWELLING UNITS & ADJOINING CORRIDORS	RESIDENTIAL	256	0.10	4 SPRINKLERS	100
GENERATOR / FUEL OIL STORAGE	EXTRA HAZARD GROUP 1	100	0.30	ENTIRE ROOM	500

STANDPIPE SYSTEM DESIGN CRITERIA - NFPA 14						
NFPA 14 CLASS	OUTLET LOCATIONS		FED OUTLET NOMINAL SIZE (IN)	MAXIMUM STATIC PRESSURE (PSI)	MINIMUM STATIC PRESSURE (PSI)	TOTAL SYSTEM DESIGN FLOW
CLASS I - AUTO	EGRESS STAIRS - MAIN LANDING		2 1/2	175	100	750 / 1000*

* STANDPIPE SYSTEM DESIGN FOR TOWER C IS 750 GPM, TOWERS A & B IS 1,000 GPM.
** REFER TO FPM 01 FOR HYDRAULIC CALCULATION NOTES.

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revisions:

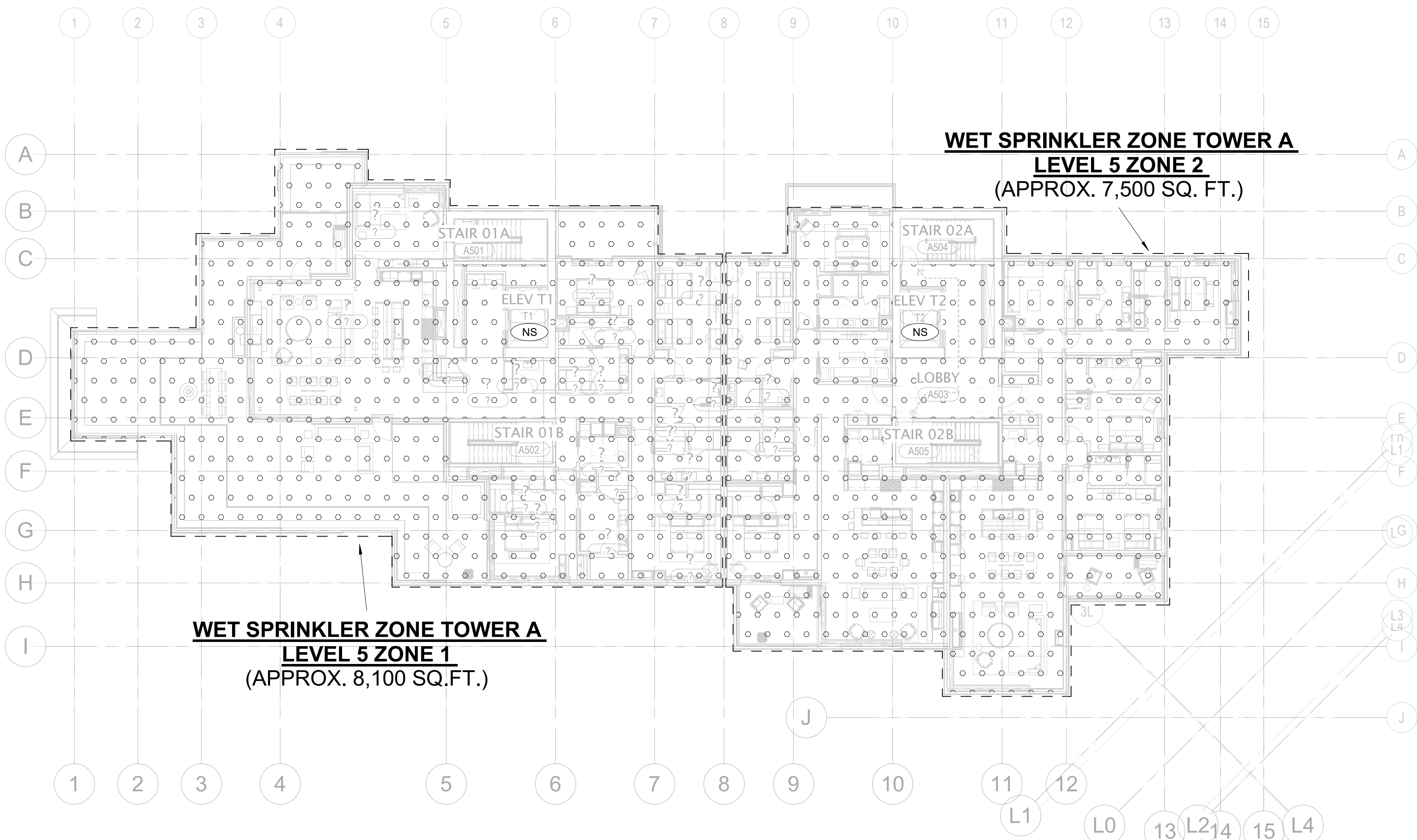
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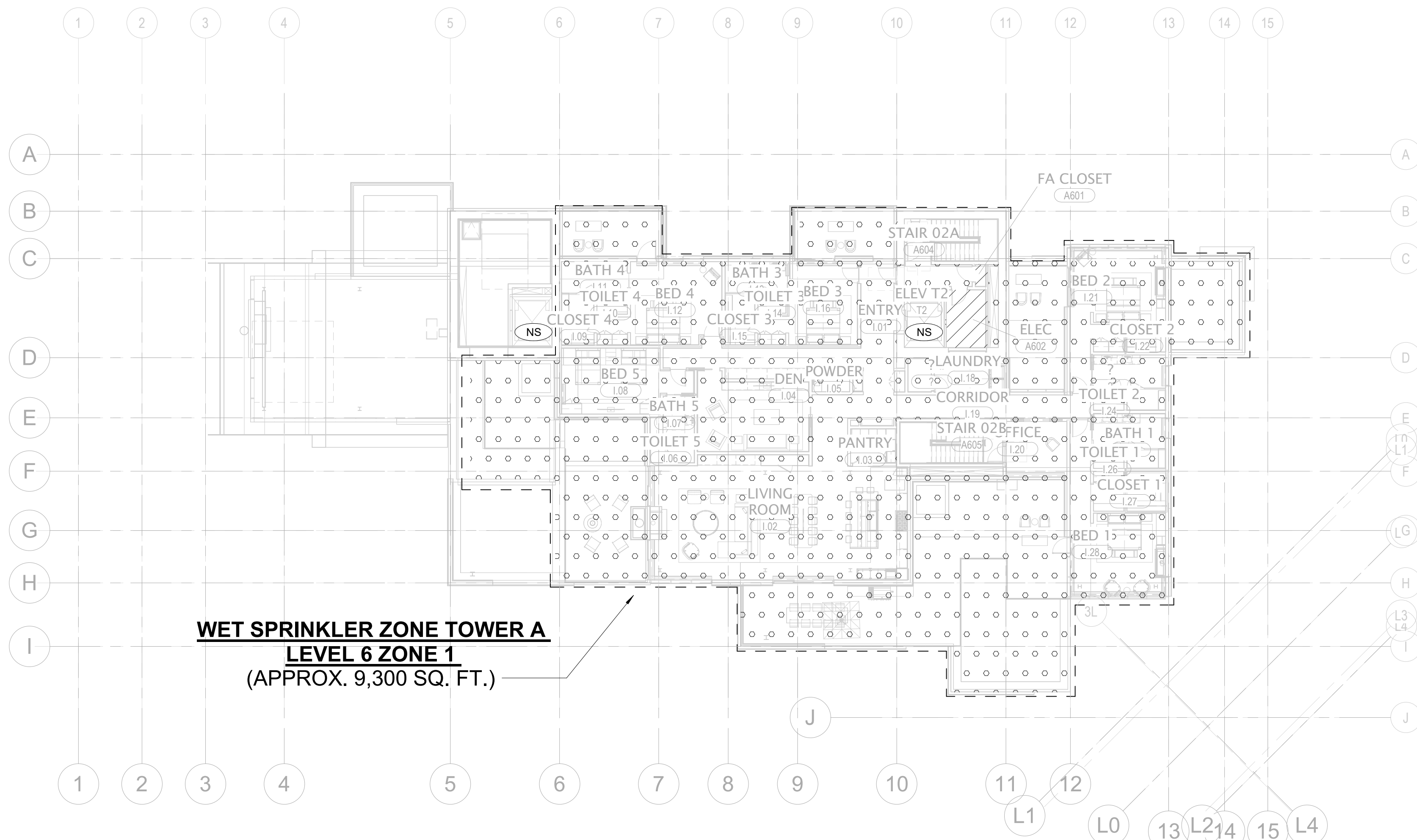
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FIRE PROTECTION NOTES, LEGEND AND DESIGN CRITERIA

FP0.00



1 TOWER A - LEVEL 5 - ZONING PLAN
1/16" = 1'-0"



2 TOWER A - LEVEL 6 - ZONING PLAN
1/16" = 1'-0"

FIRE PROTECTION DESIGN HATCH LEGEND

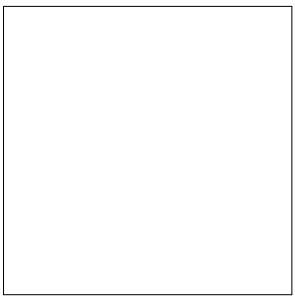
	LH	LIGHT HAZARD: SYSTEM PROVIDING A DENSITY OF .10 GPMSQFT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 100 GPM HOSE ALLOWANCE
	RES	RESIDENTIAL HAZARD: SYSTEM PROVIDING A DENSITY OF .10 GPMSQFT. OVER DESIGN AREA OF 4 SPRINKLERS. WITH 100 GPM HOSE ALLOWANCE
	OH1	ORDINARY HAZARD GROUP 1: SYSTEM PROVIDING A DENSITY OF .15 GPMSQFT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
	OH2	ORDINARY HAZARD GROUP 2: SYSTEM PROVIDING A DENSITY OF .20 GPMSQFT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
	EX1	EXTRA HAZARD GROUP 1: SYSTEM PROVIDING A DENSITY OF .30 GPMSQFT. OVER DESIGN AREA OF THE ENTIRE ROOM WITH 500 GPM HOSE ALLOWANCE
	NS	NON-SPRINKLERED AREA

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checked by: _____
job no. 2052
date 11/18/2022

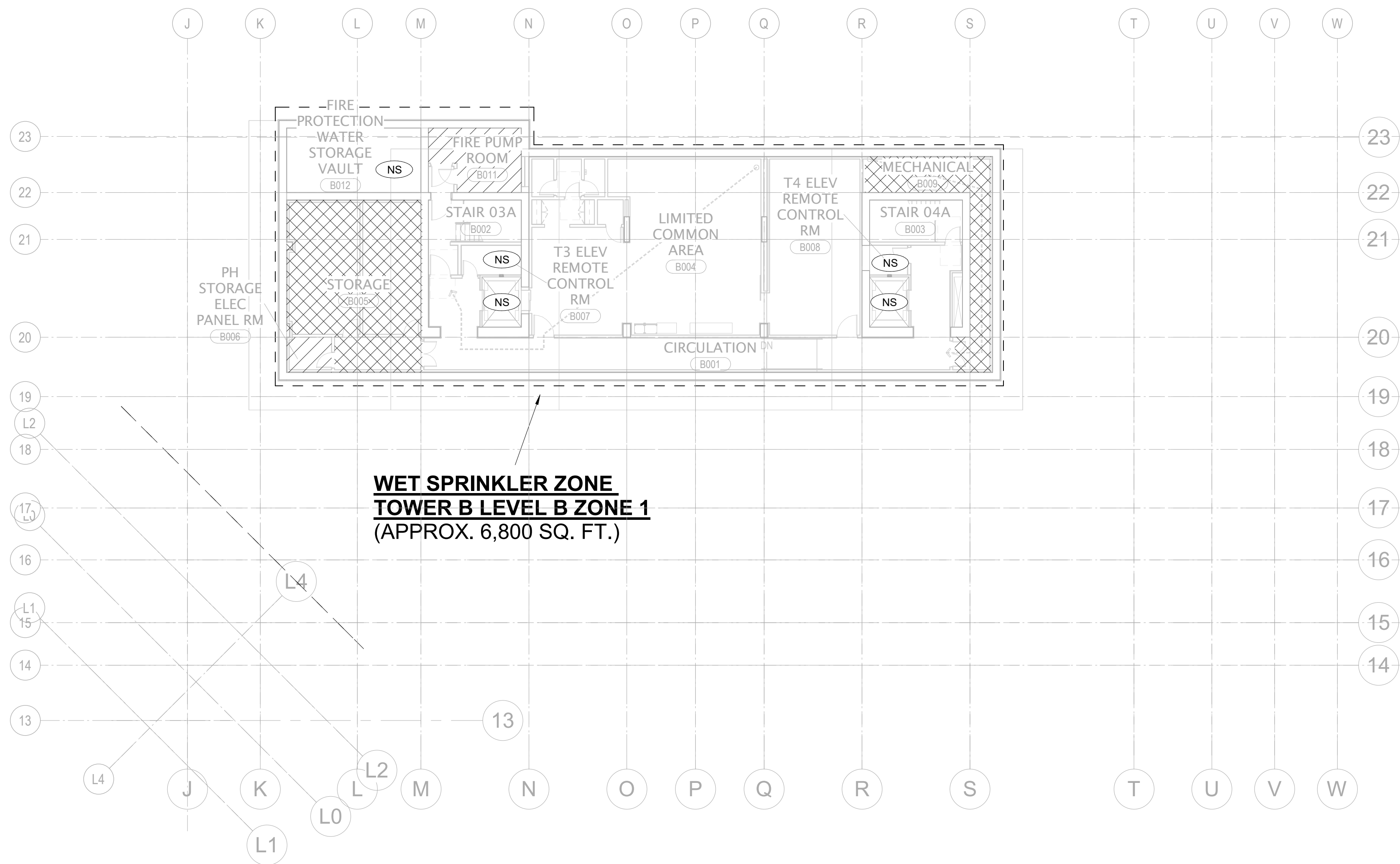
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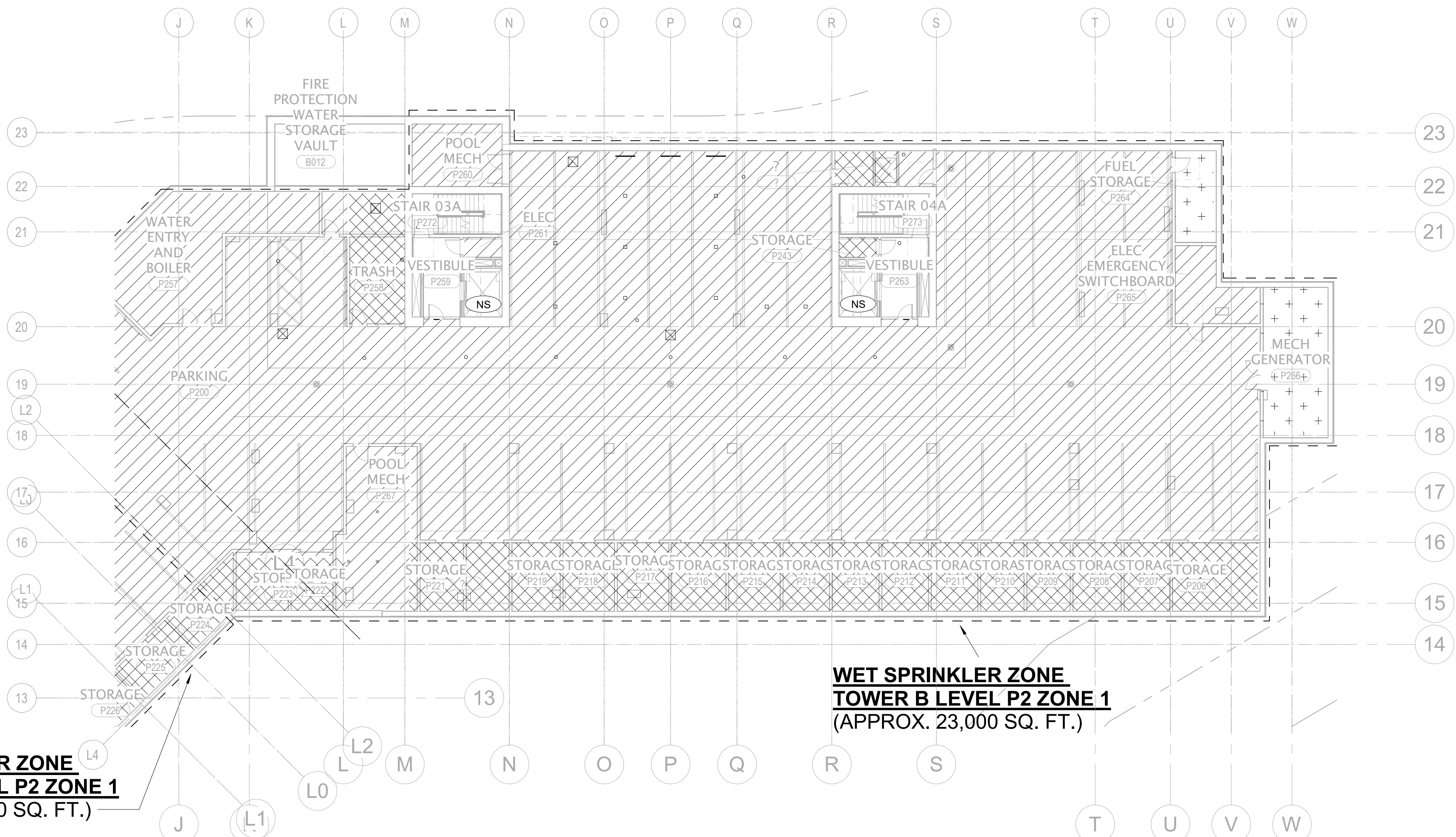
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FIRE PROTECTION -
TOWER A - ZONING
PLANS

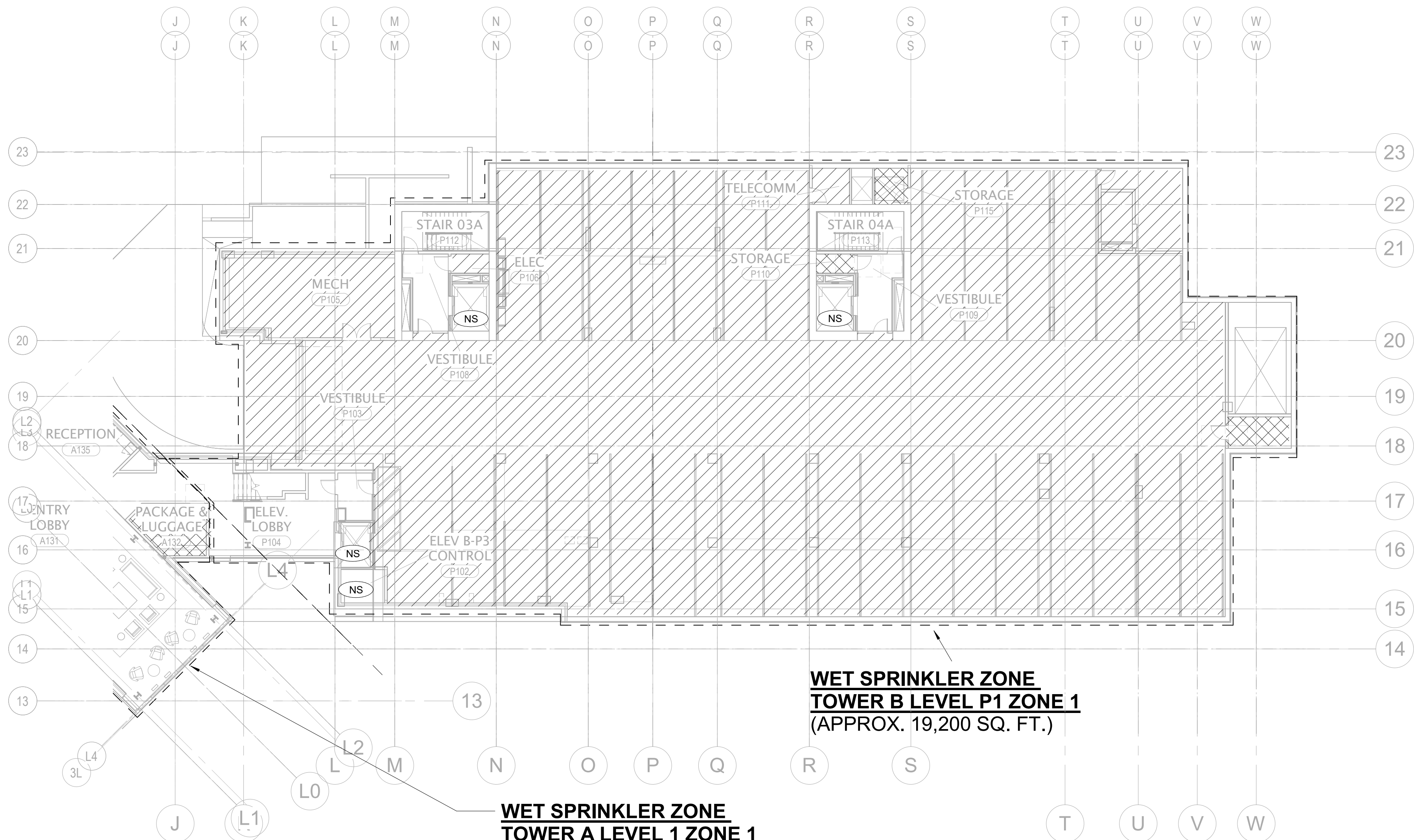
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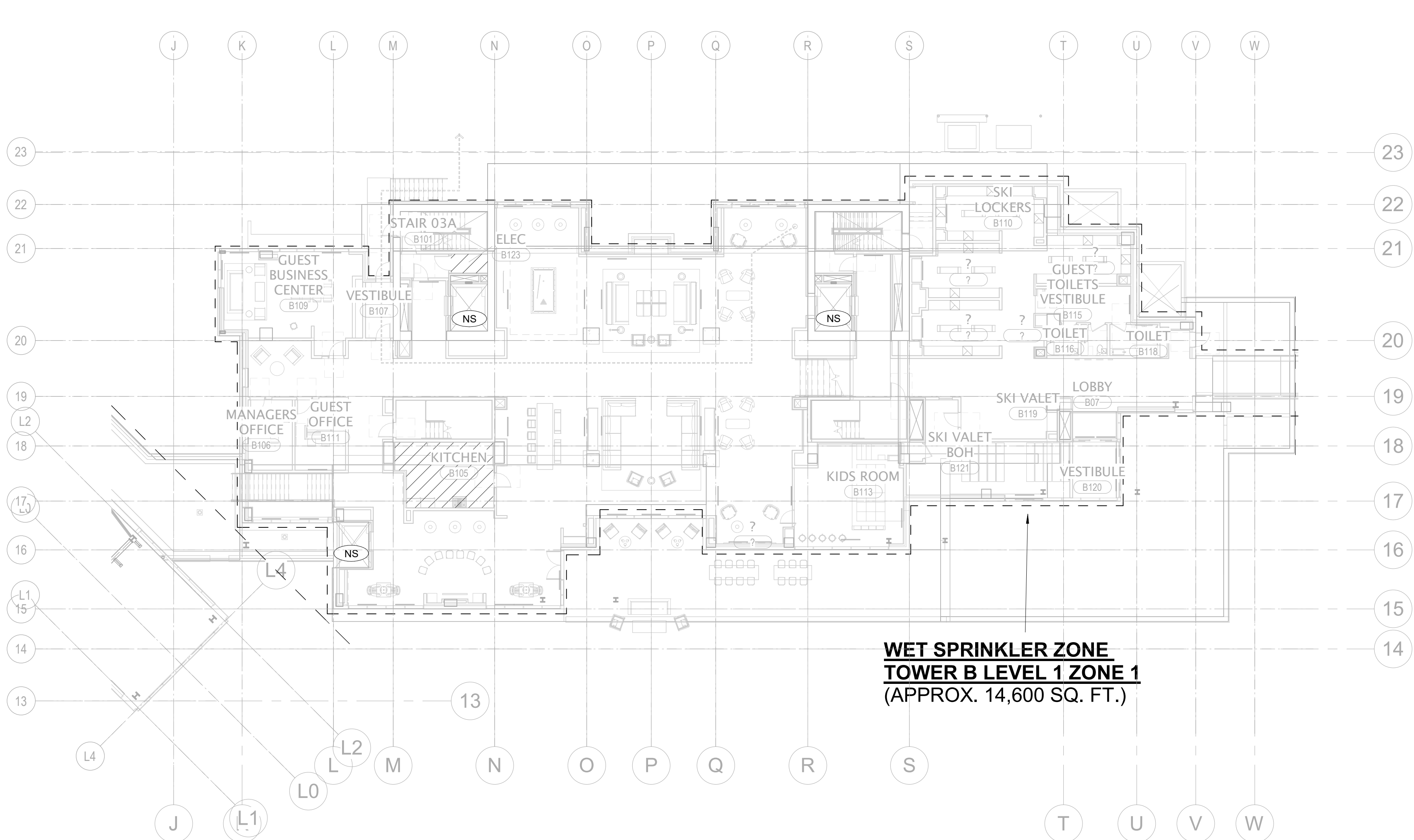
1 TOWER B LEVEL B - ZONING PLAN
1/16" = 1'-0"



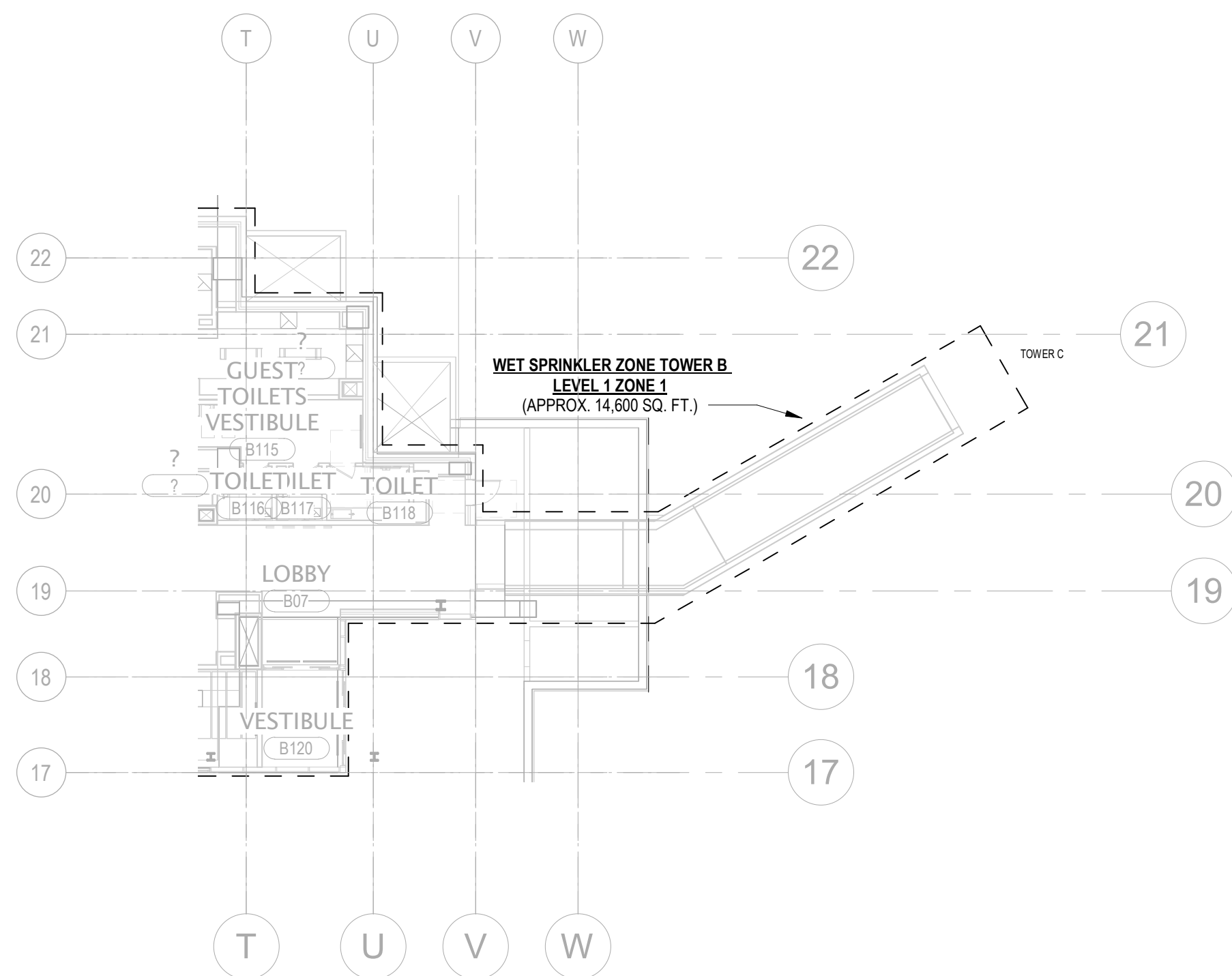
2 TOWER B - LEVEL P2 - ZONING PLAN
1/16" = 1'-0"



3 TOWER B - LEVEL P1 - ZONING PLAN
1/16" = 1'-0"



4 TOWER B - LEVEL 1 - ZONING PLAN
1/16" = 1'-0"



5 TOWER B - LEVEL 1 - PED. CONN. ZONING PLAN
1/16" = 1'-0"

FIRE PROTECTION DESIGN HATCH LEGEND

LH	LIGHT HAZARD: SYSTEM PROVIDING A DENSITY OF 10 GPM/SQ. FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 100 GPM HOSE ALLOWANCE
RES	RESIDENTIAL HAZARD: SYSTEM PROVIDING A DENSITY OF 10 GPM/SQ. FT. OVER DESIGN AREA OF 4 SPRINKLERS WITH 100 GPM HOSE ALLOWANCE
OH1	ORDINARY HAZARD GROUP 1: SYSTEM PROVIDING A DENSITY OF 15 GPM/SQ. FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
OH2	ORDINARY HAZARD GROUP 2: SYSTEM PROVIDING A DENSITY OF 20 GPM/SQ. FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
EX1	EXTRA HAZARD GROUP 1: SYSTEM PROVIDING A DENSITY OF 30 GPM/SQ. FT. OVER DESIGN AREA OF THE ENTIRE ROOM WITH 250 GPM HOSE ALLOWANCE
NS	NON-SPRINKLERED AREA

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drawn by _____ CRB_SMR
checked by _____ Checker
job no. 2052
date 11/18/2022

revisions:


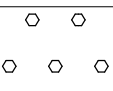
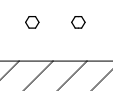



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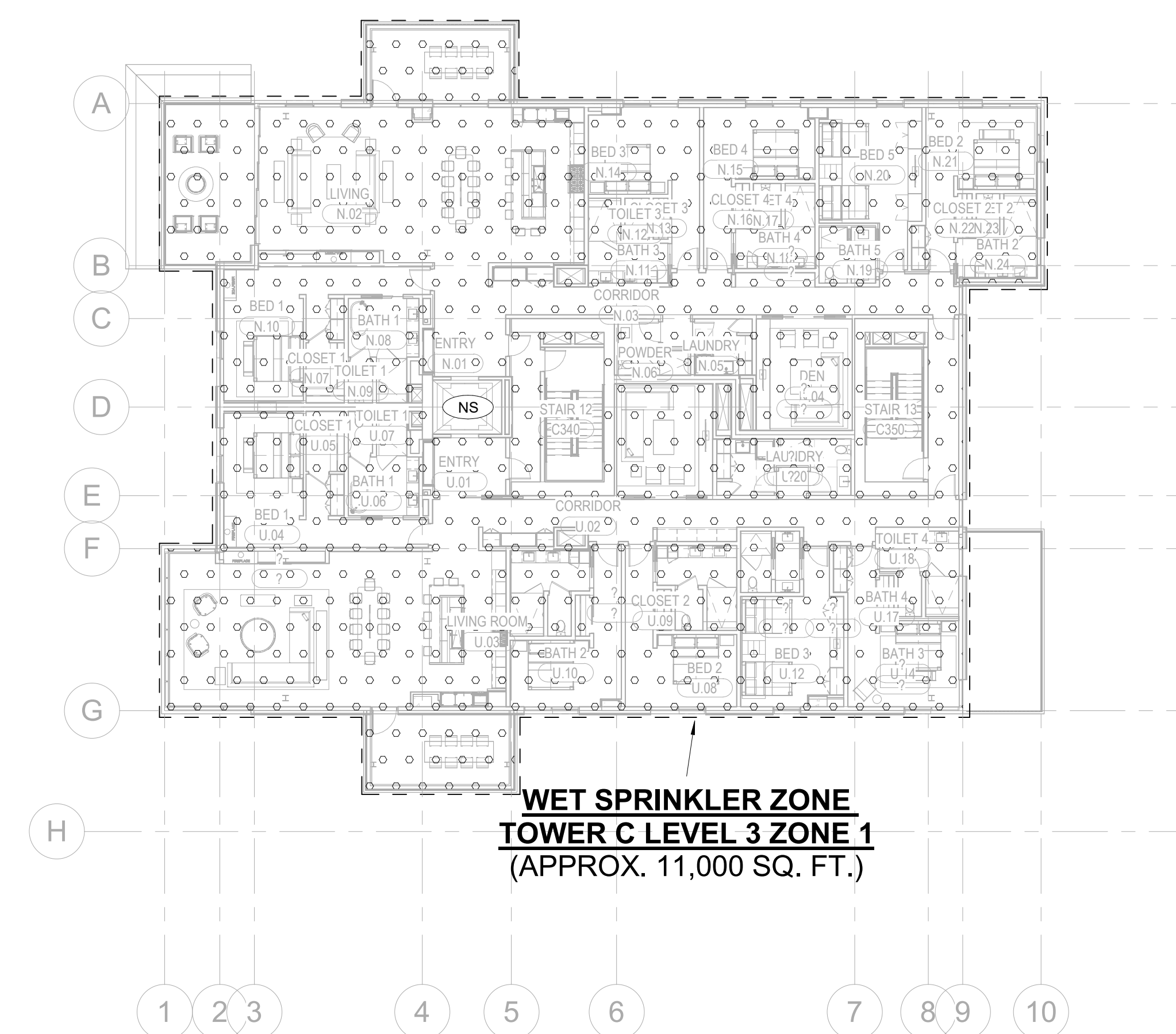
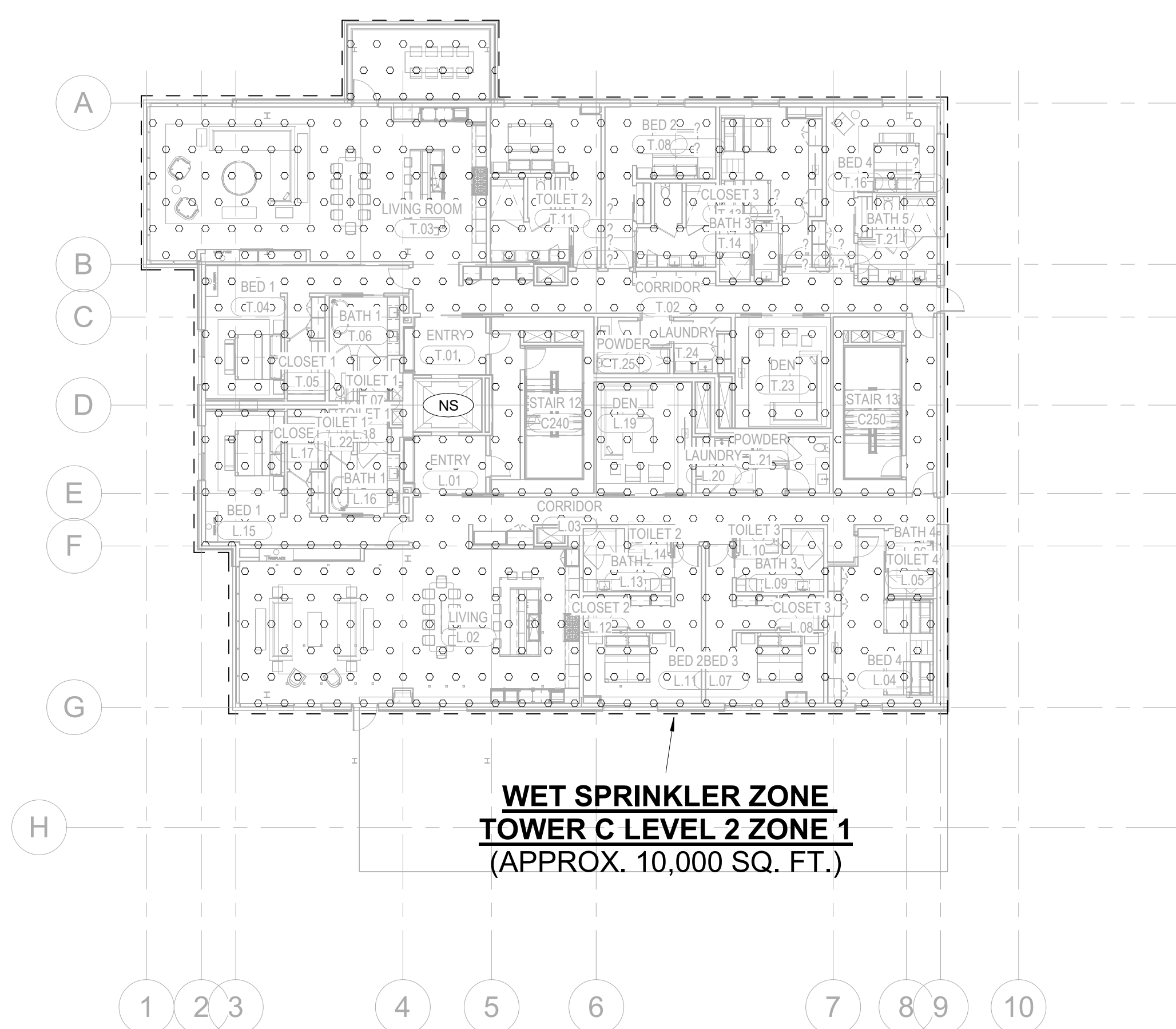
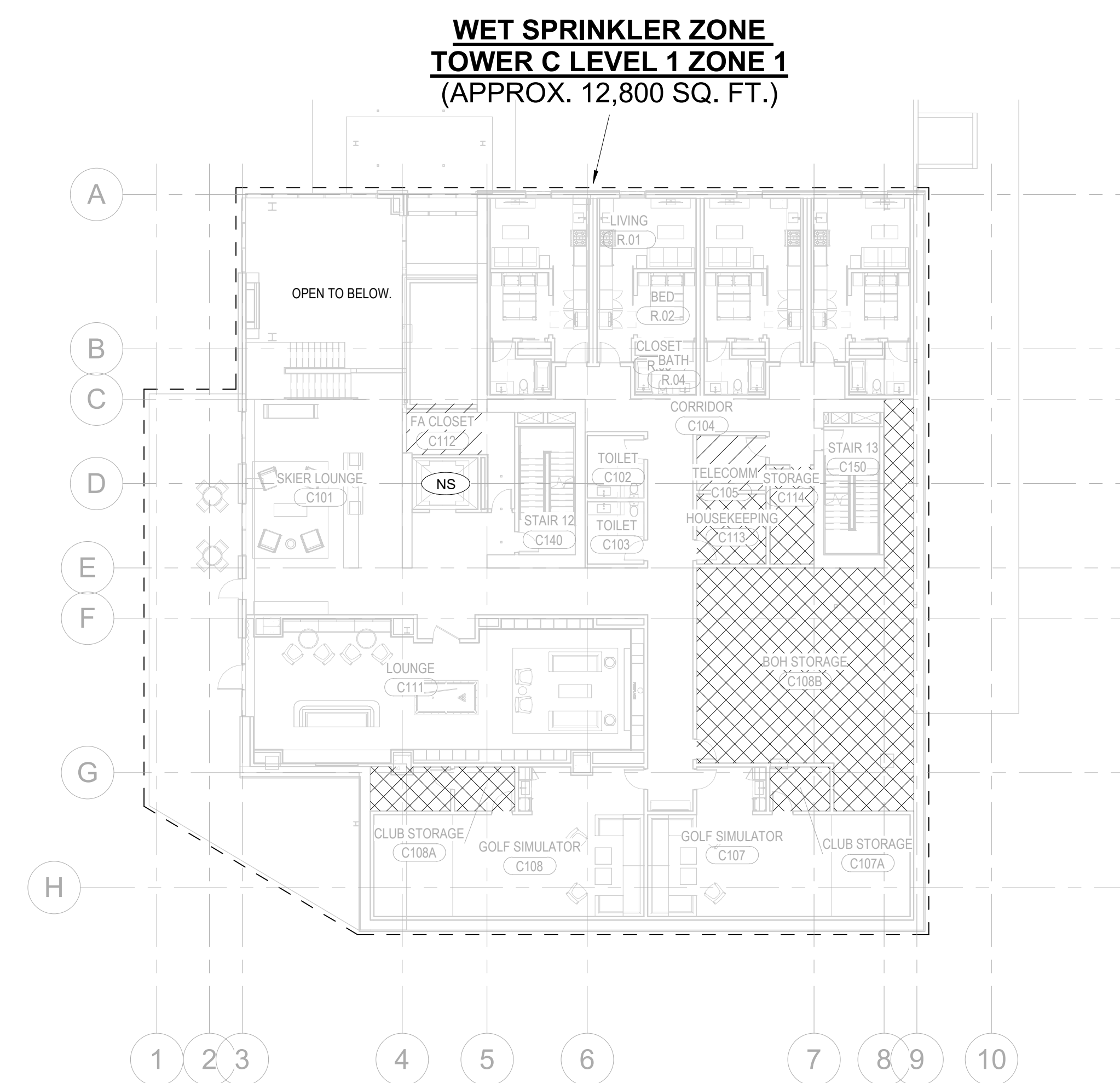
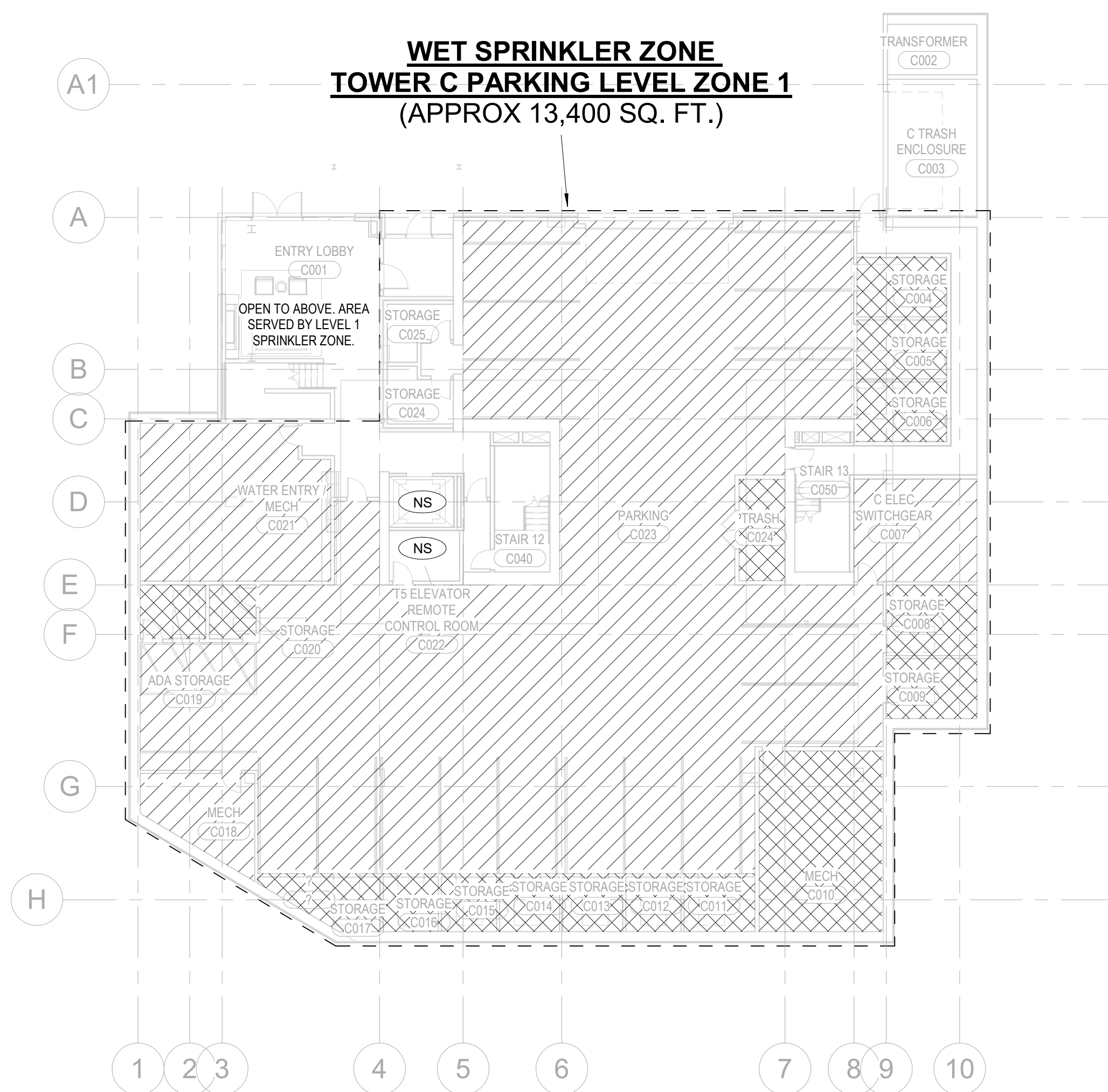
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FIRE PROTECTION -
TOWER B - ZONING
PLANS







FP1.04



		<p>LIGHT HAZARD: SYSTEM PROVIDING A DENSITY OF .10 GPMS/FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 100 GPM/HISE ALLOWANCE</p>
		<p>RESIDENTIAL HAZARD: SYSTEM PROVIDING A DENSITY OF .10 GPMS/FT. OVER DESIGN AREA OF 4 SPRINKLERS. WITH 100 GPM/HISE ALLOWANCE</p>
		<p>ORDINARY HAZARD GROUP 1: SYSTEM PROVIDING A DENSITY OF .15 GPMS/FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM/HISE ALLOWANCE</p>
		<p>ORDINARY HAZARD GROUP 2: SYSTEM PROVIDING A DENSITY OF .20 GPMS/FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM/HISE ALLOWANCE</p>
		<p>EXTRA HAZARD GROUP 1: SYSTEM PROVIDING A DENSITY OF .30 GPMS/FT. OVER DESIGN AREA OF THE ENTIRE ROOM WITH 500 GPM/HISE ALLOWANCE</p>
		<p>NON-SPRINKLERED AREA</p>



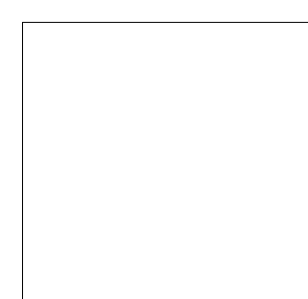
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	LN	LIGHT HAZARD; SYSTEM PROVIDING A DENSITY OF .10 GPM/SQ.FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 100 GPM HOSE ALLOWANCE
	RES	RESIDENTIAL HAZARD; SYSTEM PROVIDING A DENSITY OF .10 GPM/SQ.FT. OVER DESIGN AREA OF 4 SPRINKLERS, WITH 100 GPM HOSE ALLOWANCE
	OH1	ORDINARY HAZARD GROUP 1; SYSTEM PROVIDING A DENSITY OF .15 GPM/SQ.FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
	OH2	ORDINARY HAZARD GROUP 2; SYSTEM PROVIDING A DENSITY OF .20 GPM/SQ.FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
	EXT	EXTRA HAZARD GROUP 1; SYSTEM PROVIDING A DENSITY OF .30 GPM/SQ.FT. OVER DESIGN AREA OF THE ENTIRE ROOM WITH 500 GPM HOSE ALLOWANCE
	NS	NON-SPRINKLERED AREA

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revisions:

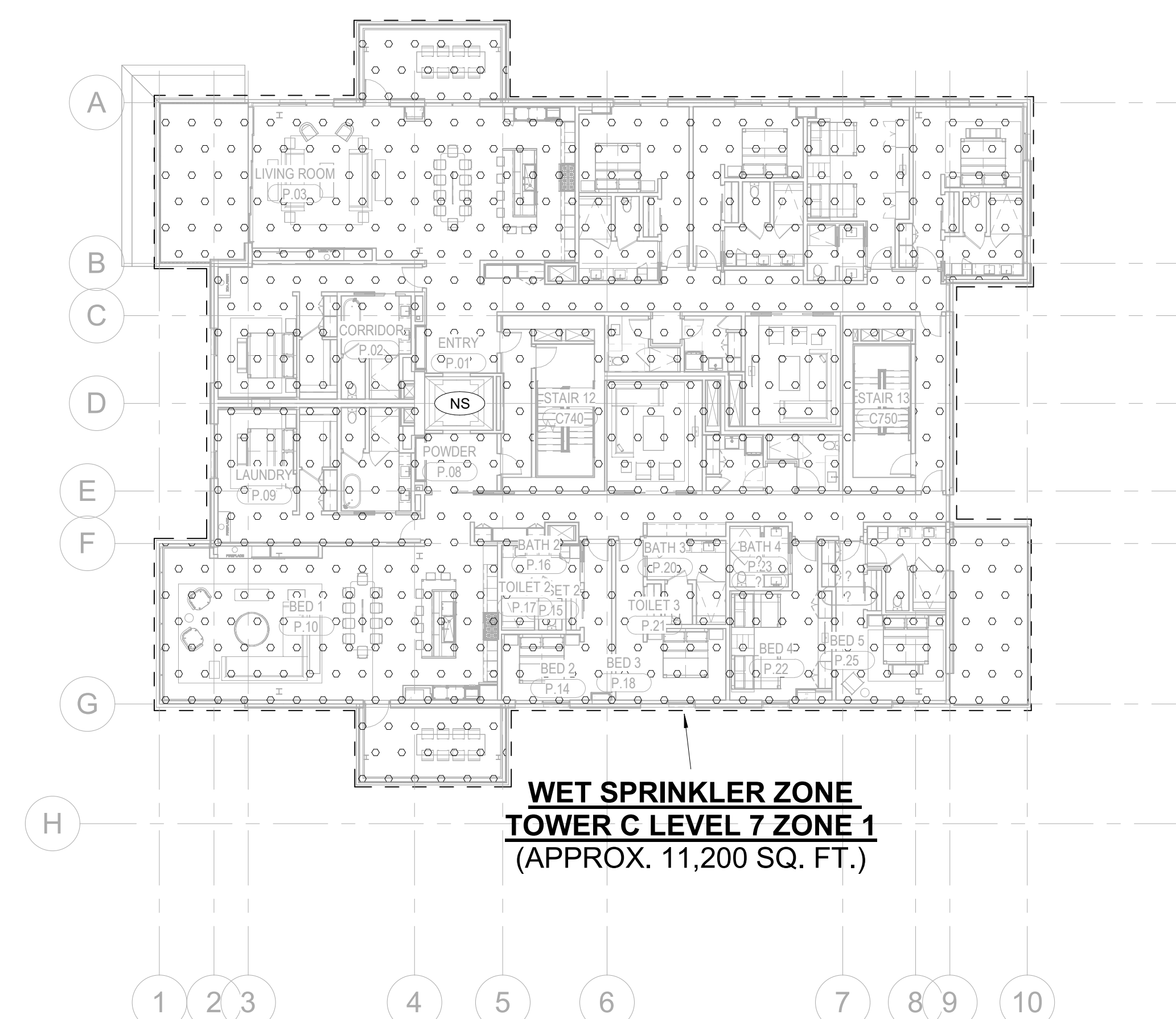
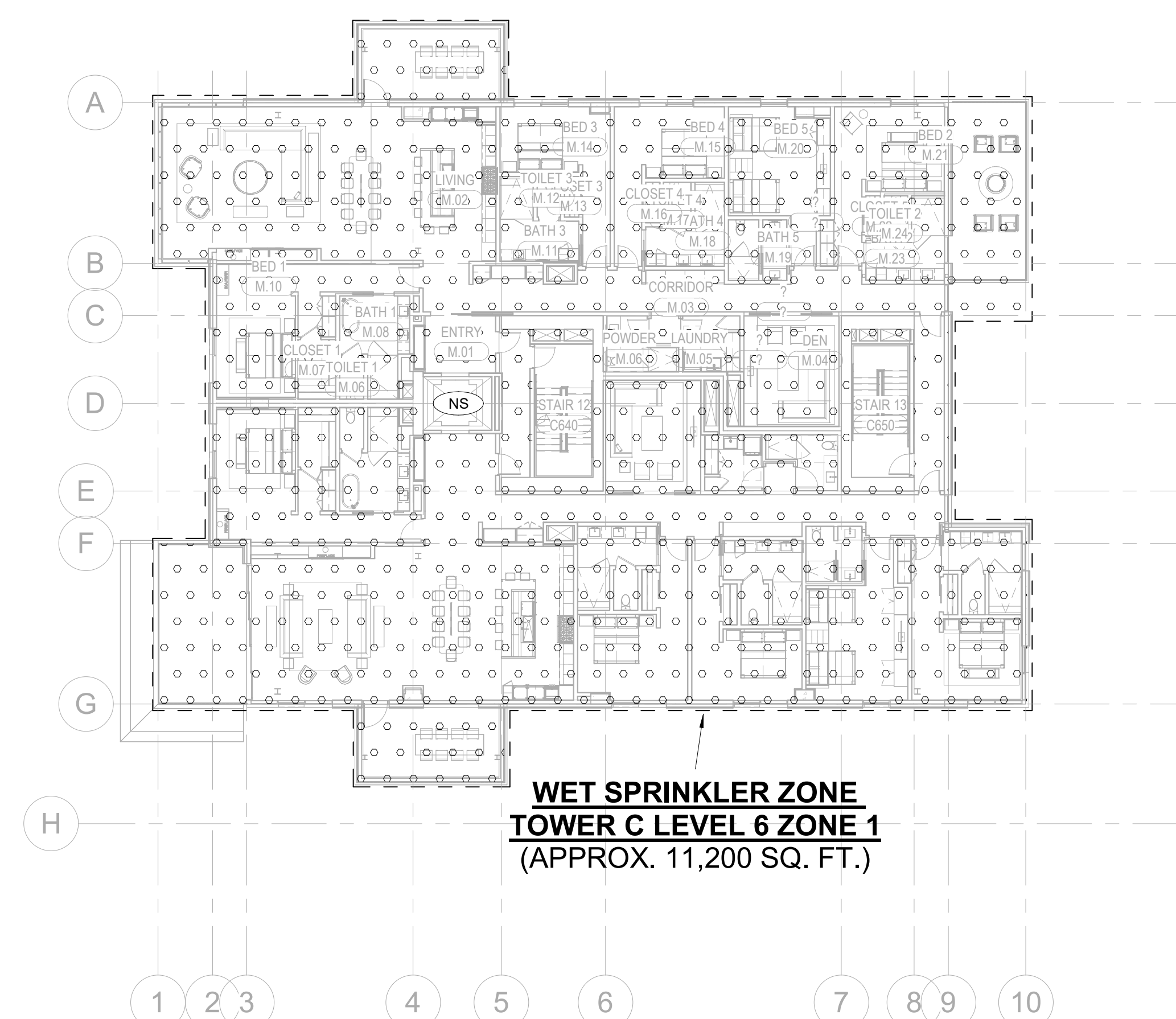
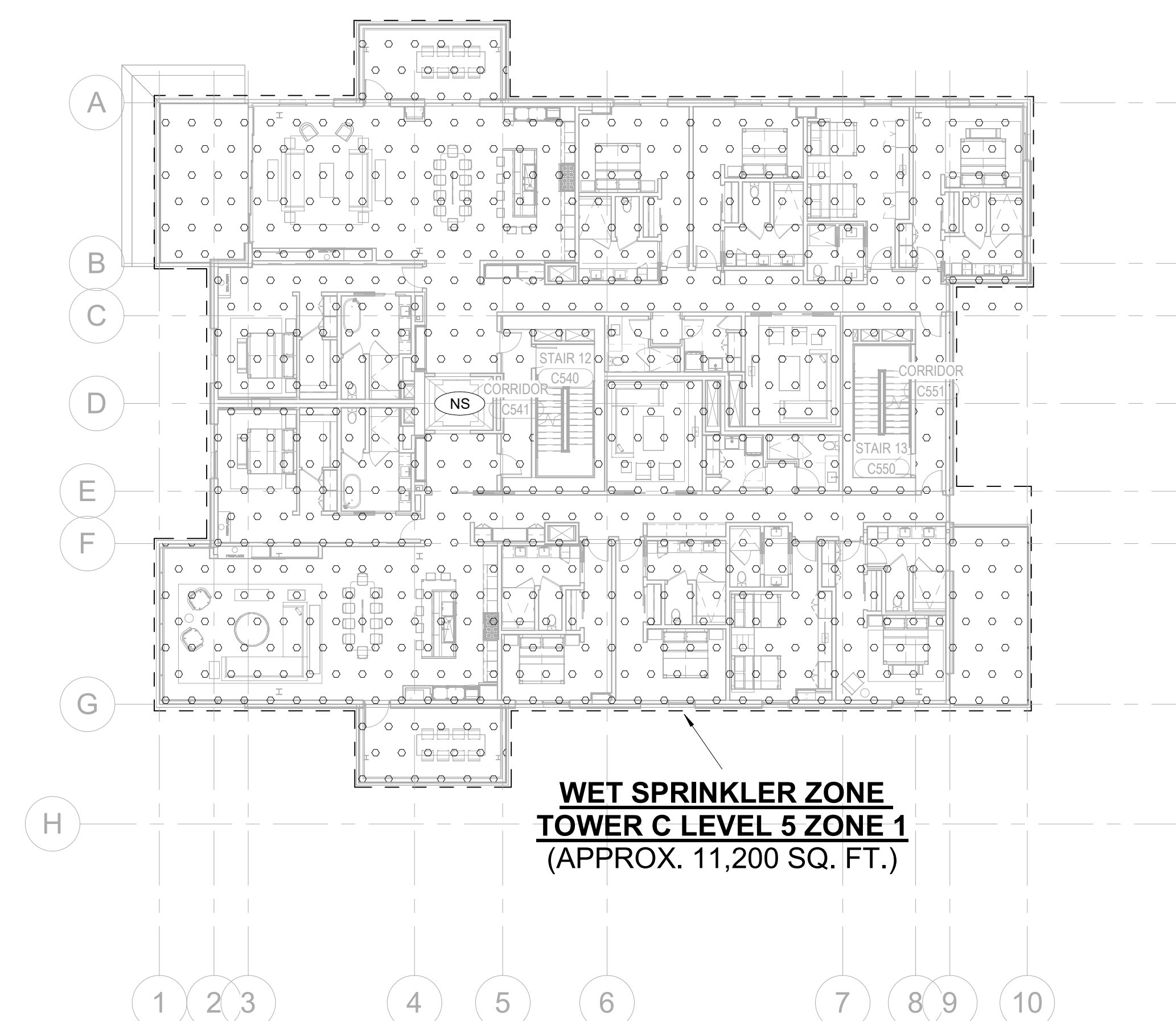
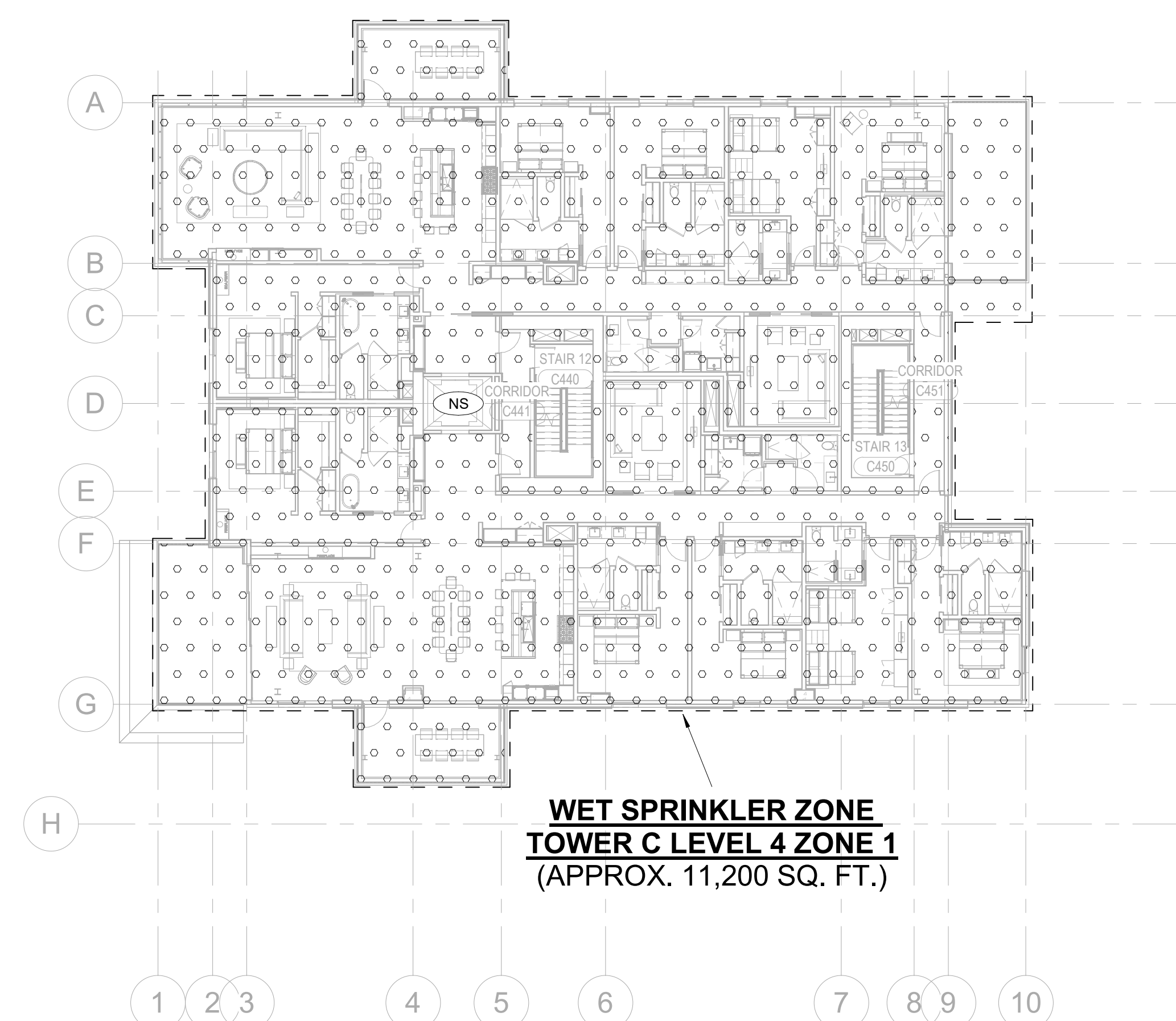
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



11/18/2022

FIRE PROTECTION -
TOWER C - ZONING
PLANS

FP1.07



FIRE PROTECTION DESIGN HATCH LEGEND

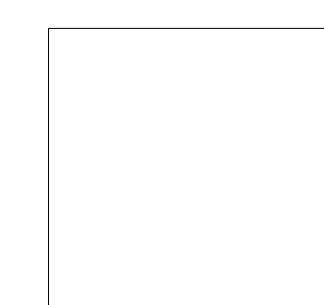
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	RESIDENTIAL HAZARD; SYSTEM PROVIDING A DENSITY OF .10 GPMSQ.FT. OVER DESIGN AREA OF 4 SPRINKLERS, WITH 100 GPM HOSE ALLOWANCE
	ORDINARY HAZARD GROUP 1; SYSTEM PROVIDING A DENSITY OF .18 GPMSQ.FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
	ORDINARY HAZARD GROUP 2; SYSTEM PROVIDING A DENSITY OF .20 GPMSQ.FT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
	EXTRA HAZARD GROUP 1; SYSTEM PROVIDING A DENSITY OF .30 GPMSQ.FT. OVER DESIGN AREA OF THE ENTIRE ROOM WITH 500 GPM HOSE ALLOWANCE
	NON-SPRINKLERED AREA

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drawn by CRB, SMK

checked by Checker
job no. 20052
date 11/18/2022

revisions:

no.	date	
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CONSTRUCTION

11/18/2022

FIRE PROTECTION -
TOWER C - ZONING
PLANS

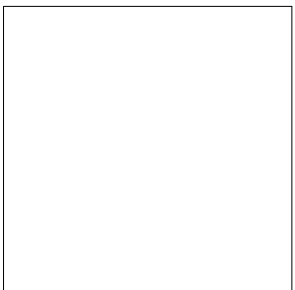
FP1.08

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drawn by: CRB_SMM

checked by: Checker
job no. 2052
date 11/18/2022

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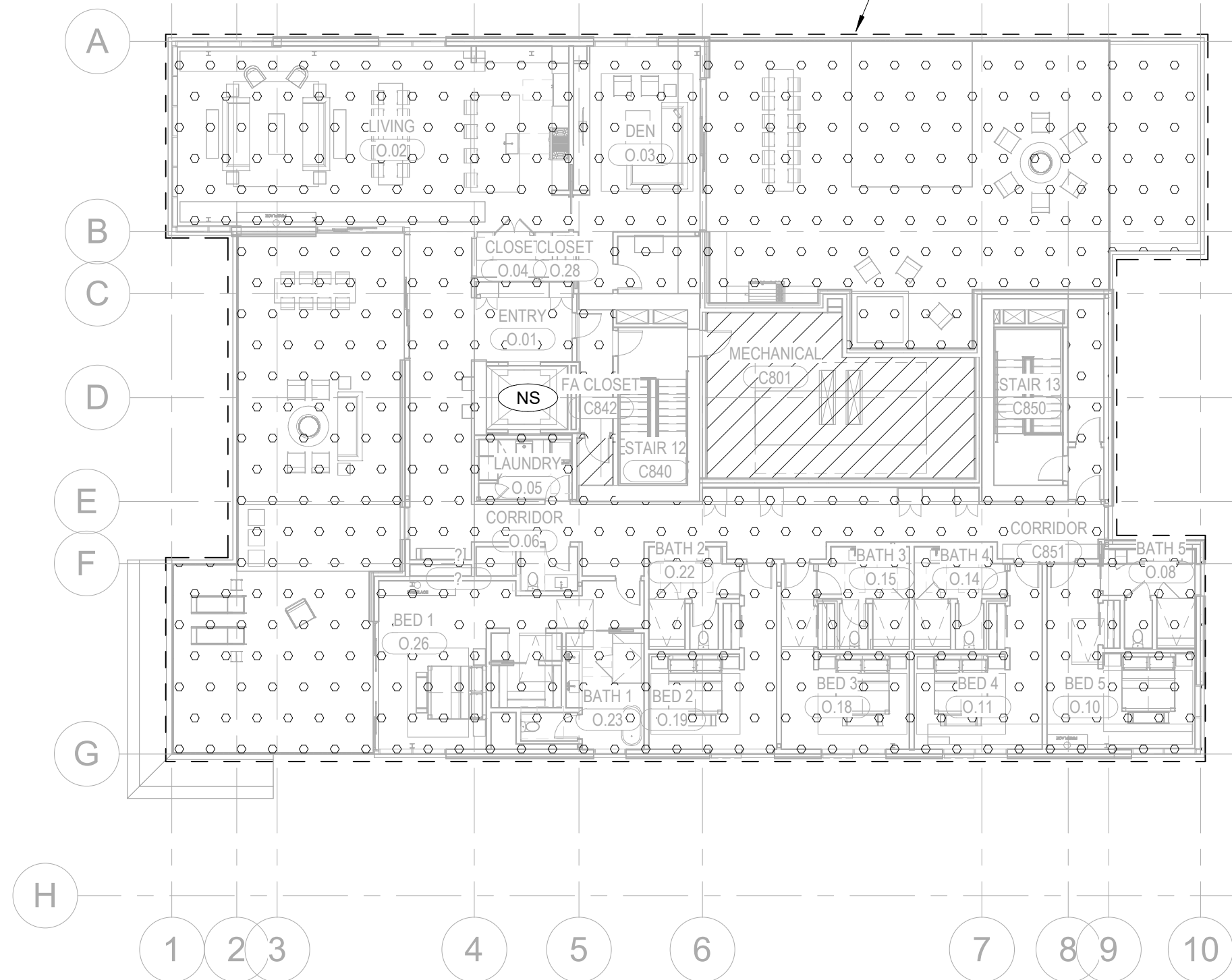
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FIRE PROTECTION -
TOWER C - ZONING
PLANS

FP1.09

WET SPRINKLER ZONE
TOWER C LEVEL 8 ZONE 1
(APPROX. 10,700 SQ. FT.)



1 TOWER C - LEVEL 8 - ZONING PLAN

1/16" = 1'-0"

FIRE PROTECTION DESIGN HATCH LEGEND

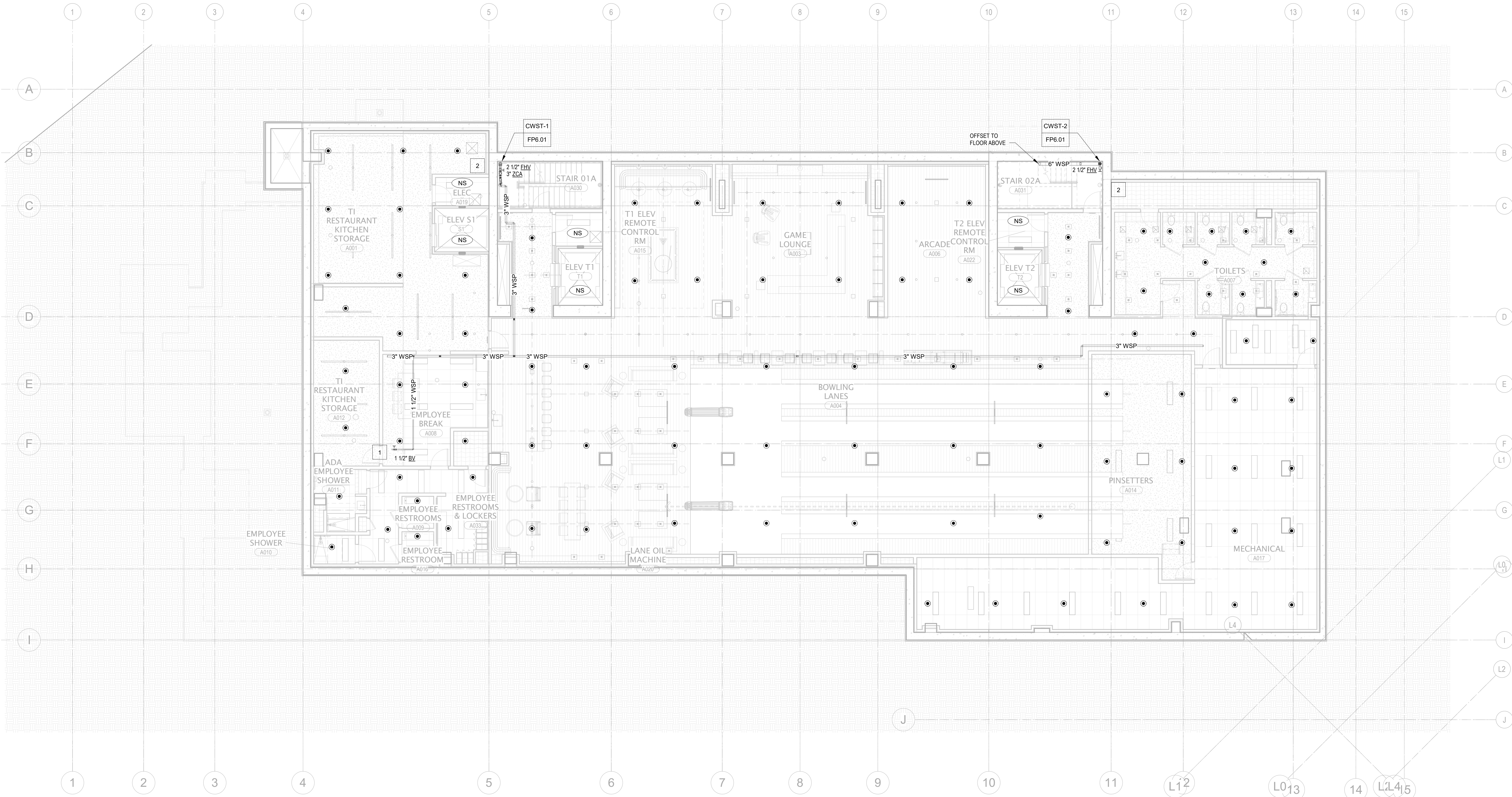
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	OH2	ORDINARY HAZARD GROUP 2; SYSTEM PROVIDING A DENSITY OF .20 GPM/SQFT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE
	EX1	EXTRA HAZARD GROUP 1; SYSTEM PROVIDING A DENSITY OF .30 GPM/SQFT. OVER DESIGN AREA OF THE ENTIRE ROOM WITH 500 GPM HOSE ALLOWANCE
	NS	NON-SPRINKLERED AREA

GENERAL NOTES:

- SCOPE OF WORK INCLUDES SPRINKLER PROTECTION THROUGHOUT ALL AREAS IN ACCORDANCE WITH NFPA 13. SPRINKLERS ARE INDICATED IN AREAS WITH FINISHED CEILING. FOR COORDINATION PURPOSES, INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILED DESIGN OF BRANCH PIPING AND UPRIGHT SPRINKLERS IN AREAS WITHOUT FINISHED CEILING.
- REFER TO TYPICAL UNIT PLANS FOR SPRINKLER LAYOUTS ON RESIDENTIAL FLOORS.

SHEET KEYED NOTES:

- | | |
|---|---|
| 1 | 1" CONNECTION FOR KITCHEN POOL, PROVIDE ACCESS PANEL FOR ISOLATION VALVE. |
| 2 | DISCHARGE SPRINKLER DRAIN RISER TO OPEN END DRAIN. |



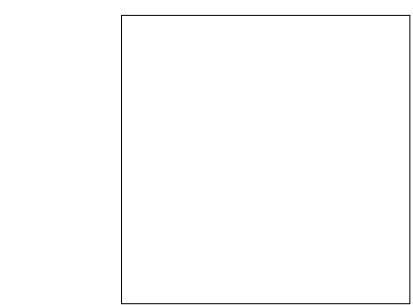
1 TOWER A - LEVEL B - FP
1/8" = 1'-0"

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project manager

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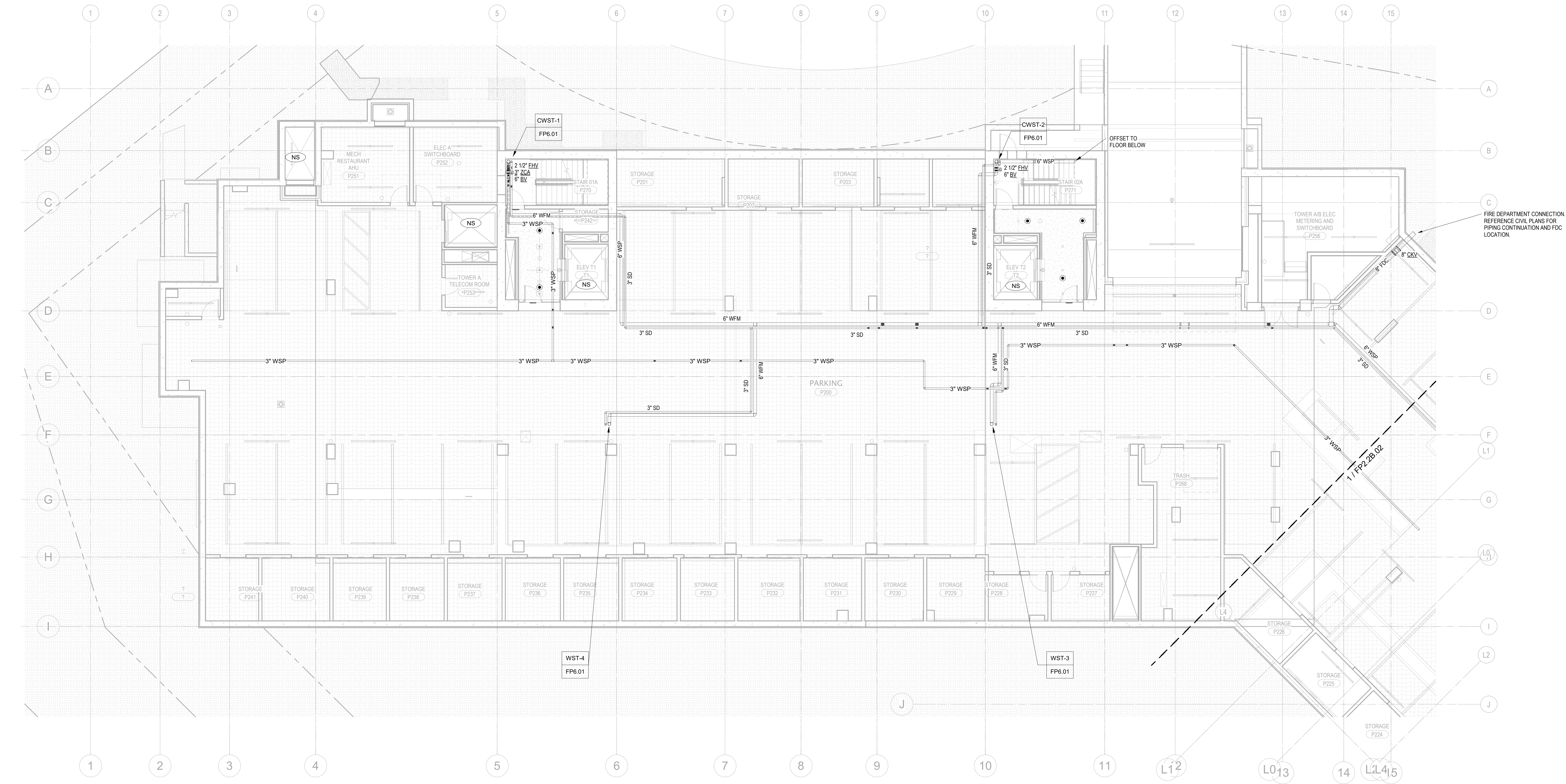
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1 TOWER A - LEVEL P2 - FP
1/8" = 1'-0"

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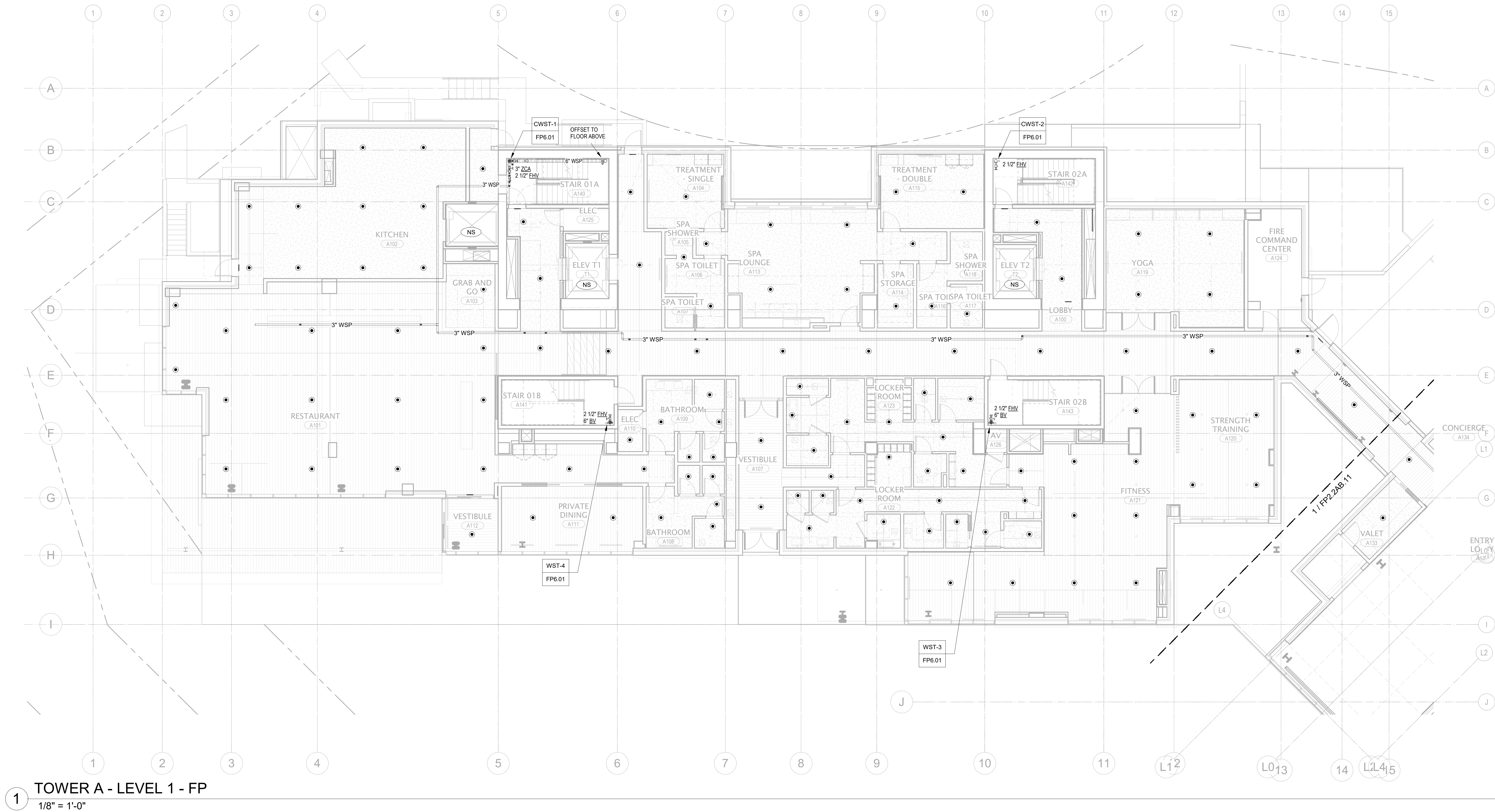
ISSUE FOR
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FIRE PROTECTION PLAN
- TOWER A - LVL P2

FP2.2A.02

GENERAL NOTES:

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job no.

date

revisions:

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FIRE PROTECTION PLAN
- TOWER A - LVL 1

FP2.2A.11

1. SCOPE OF WORK INCLUDES SPRINKLER PROTECTION THROUGHOUT ALL AREAS IN ACCORDANCE WITH NFPA 13. SPRINKLERS ARE INDICATED IN AREAS WITH FINISHED CEILINGS FOR COORDINATION PURPOSES. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILED DESIGN OF BRANCH PIPING AND UPRIGHT SPRINKLERS IN AREAS WITHOUT FINISHED CEILINGS.
2. REFER TO TYPICAL UNIT PLANS FOR SPRINKLER LAYOUTS ON RESIDENTIAL FLOORS.

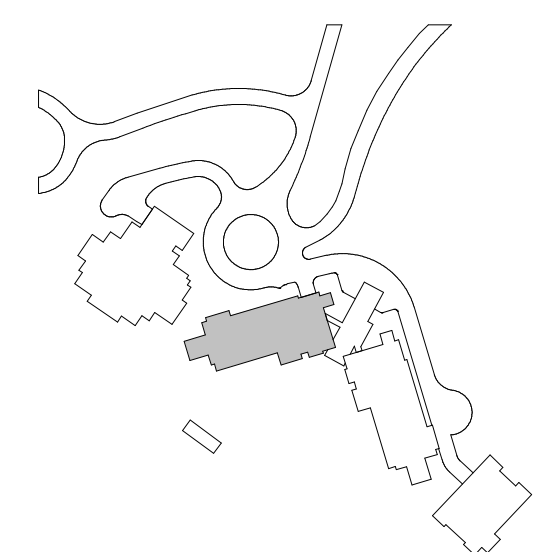
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date 11/18/2022

no. date by

FP2.2A.13



1. SCOPE OF WORK INCLUDES SPRINKLER PROTECTION THROUGHOUT ALL AREAS IN ACCORDANCE WITH NFPA 13. SPRINKLERS ARE INDICATED IN AREAS WITH FINISHED CEILINGS FOR COORDINATION PURPOSES. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILED DESIGN OF BRANCH PIPING AND UPRIGHT SPRINKLERS IN AREAS WITHOUT FINISHED CEILINGS.
2. REFER TO TYPICAL UNIT PLANS FOR SPRINKLER LAYOUTS ON RESIDENTIAL FLOORS.

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project manager: JGC

checked by _____ Check

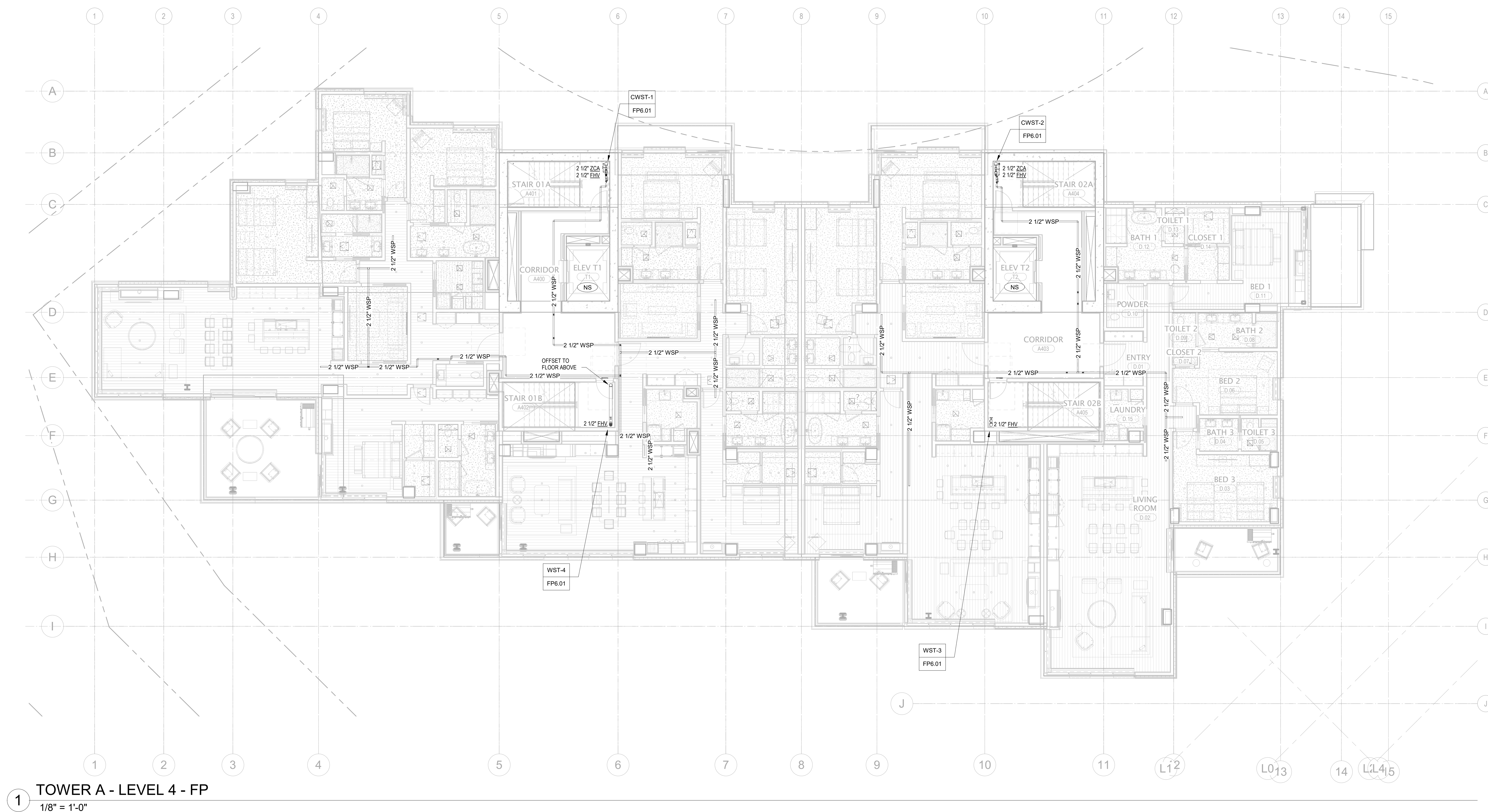
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ISSUE FOR
CONSTRUCTION

FIRE PROTECTION

FP2 2A

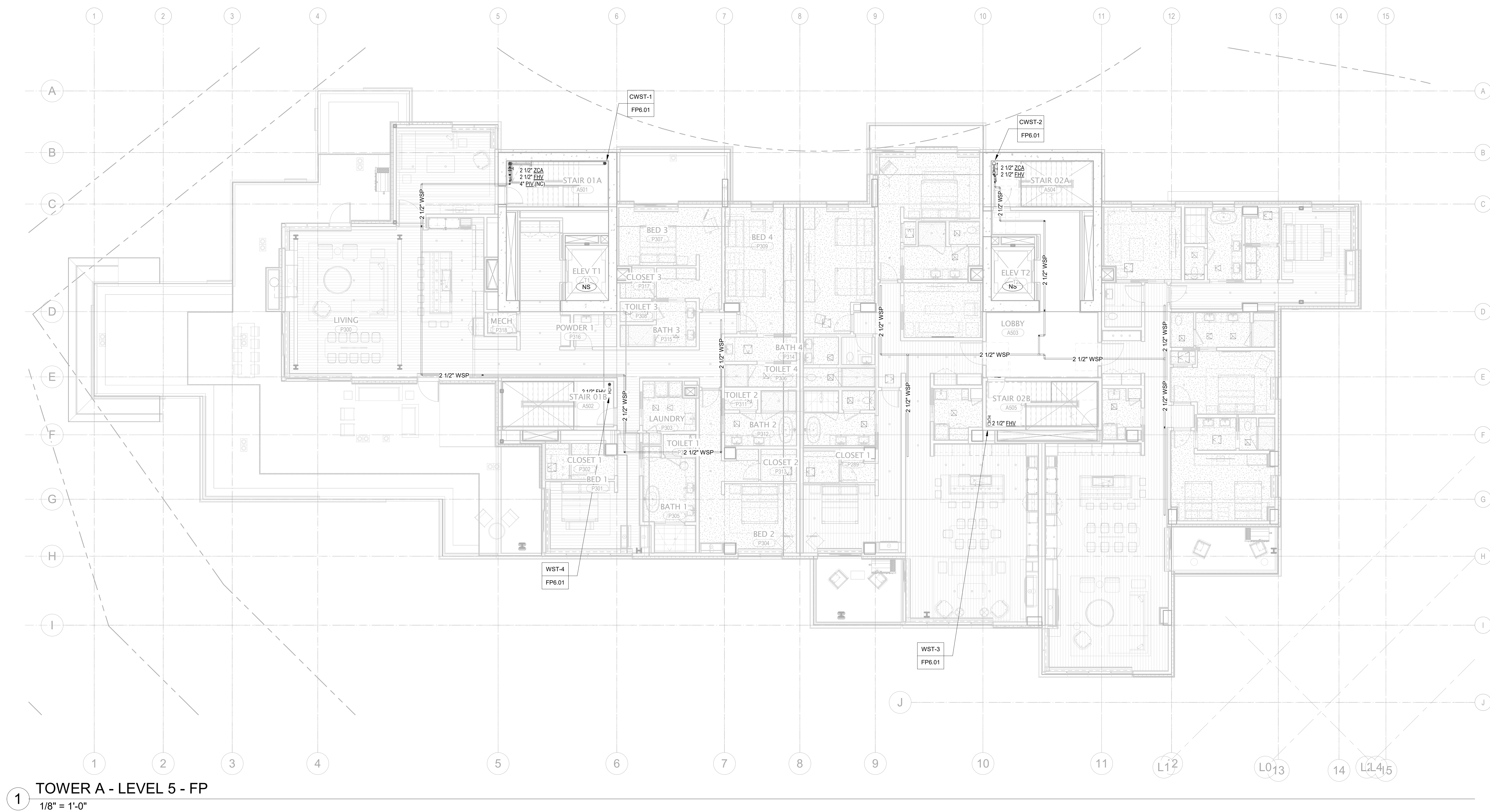


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2. REFER TO TYPICAL UNIT PLANS FOR SPRINKLER LAYOUTS ON RESIDENTIAL FLOORS.

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SOMMET BLANC - AB
DEER VALLEY, UTAH

FP2.2A.15



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principal architect _____
project manager JCC _____
drawn by CRB, SMK _____
checked by Checker _____
job no. 20052
date 11/18/2022

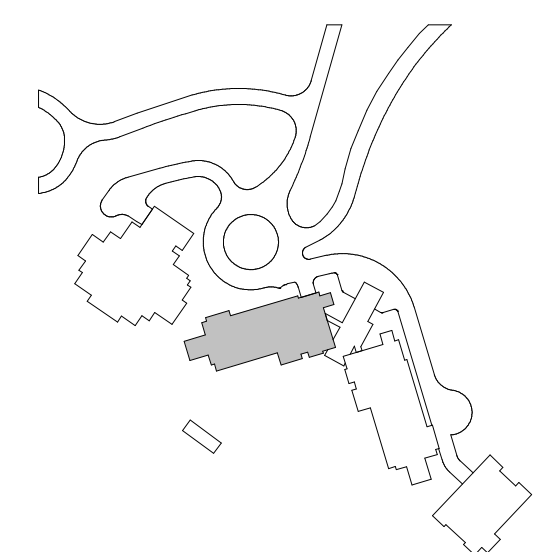
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ISSUE FOR
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FIRE PROTECTION PLAN
- TOWER A - LVL 6

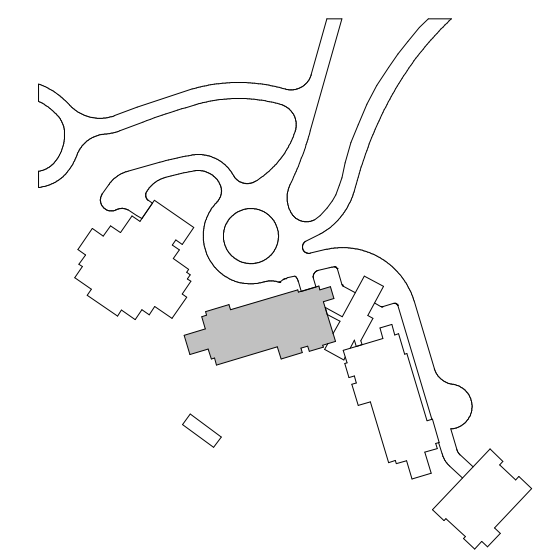
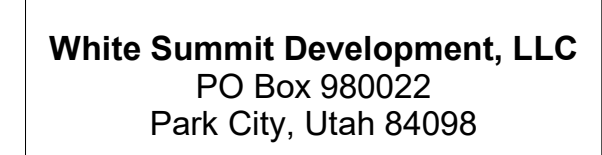
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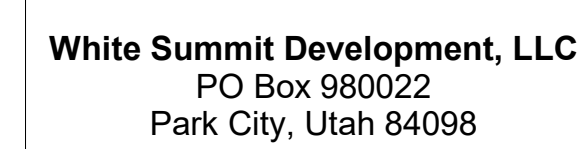
project: **SOMMET BLANC - AB**
DEER VALLEY, UTAH



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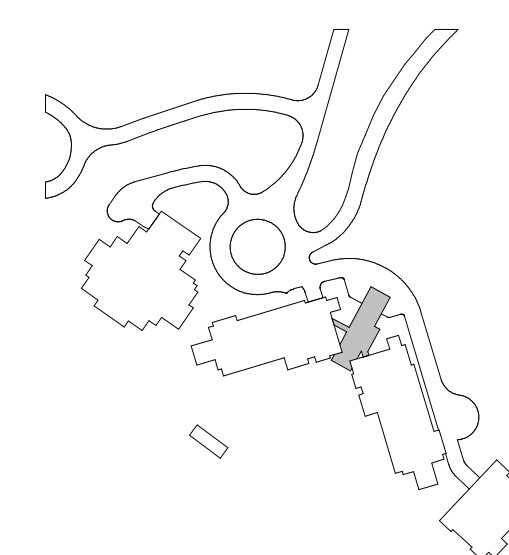
MEP Engineer
WSP USA
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no. date b

FIRE PROTECTION PLAN
- TOWER AB - LOBBY

FP2.2AB.11



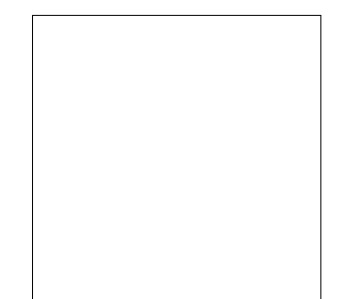
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1 DISCHARGE SPRINKLER DRAIN RISER TO OPEN
END DRAIN.



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SOMMET BLANC - AB
DEER VALLEY, UTAH



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principal architect _____
project manager JCC _____
drawn by CRB, SMK _____

checked by _____
 job no. 20052
 date 11/18/2022
 revisions:

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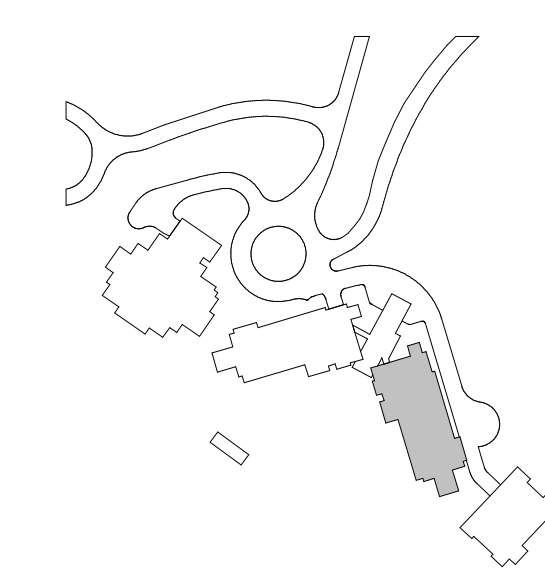
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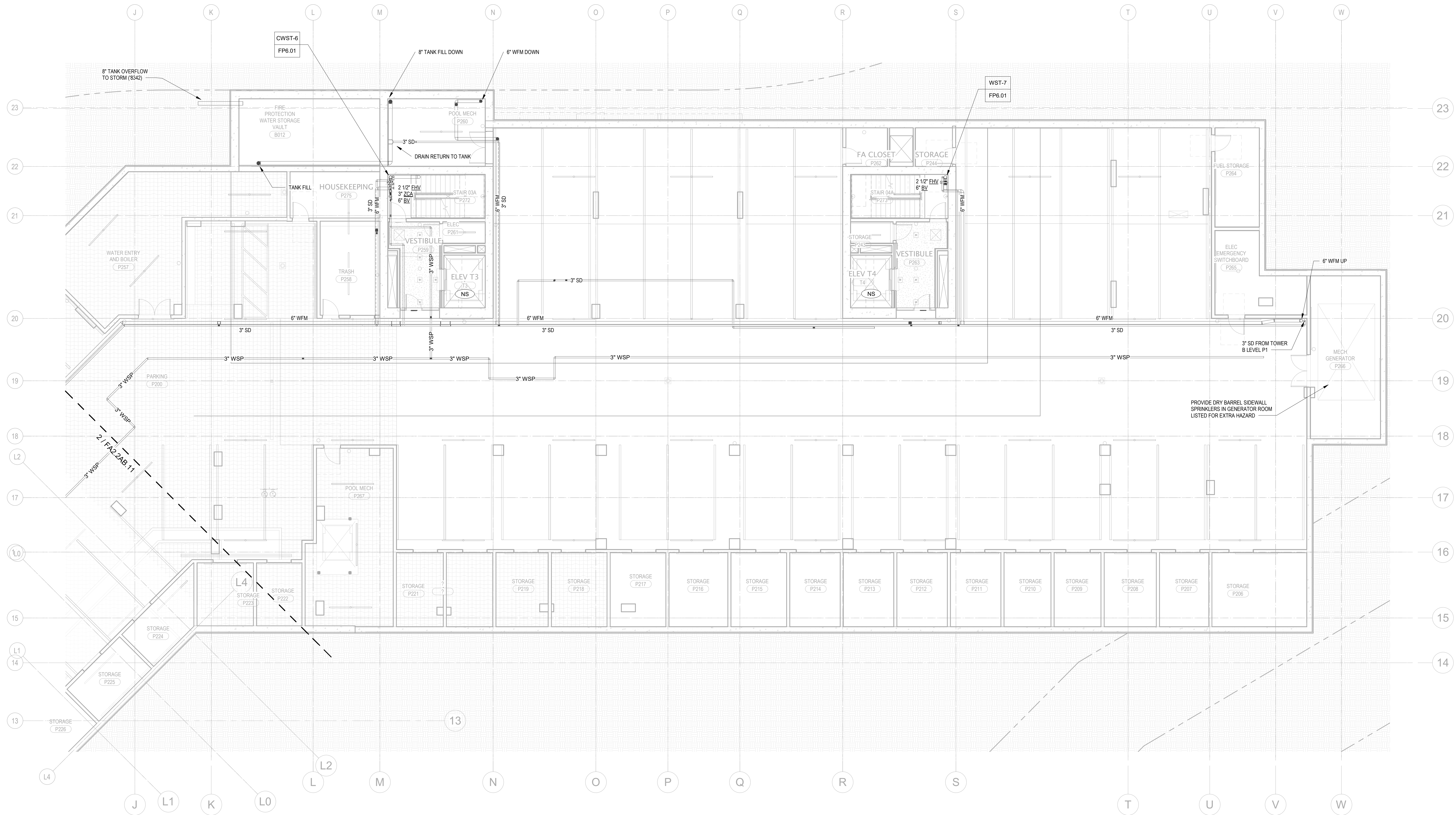
FIRE PROTECTION PLAN
- TOWER B - LVL B

FP2.2B.01



GENERAL NOTES:

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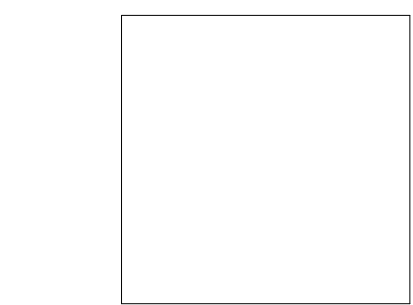
1 TOWER B - LEVEL P2 - FP
1/8" = 1'-0"

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principal architect—

project manager—JCC

drawn by—CRB, SMK

checked by—Checker

job no. 2052

date 11/18/2022

revisions:

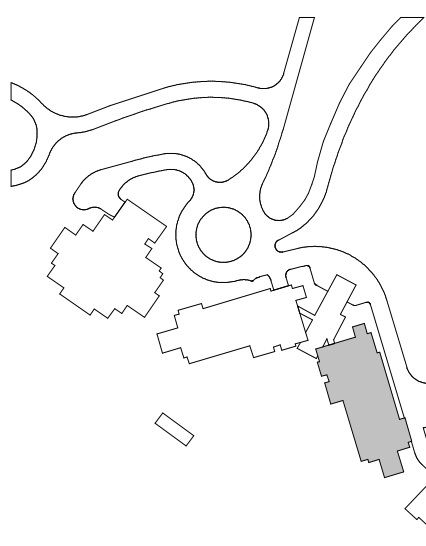
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FIRE PROTECTION PLAN
- TOWER B - LVL P2

FP2.2B.02

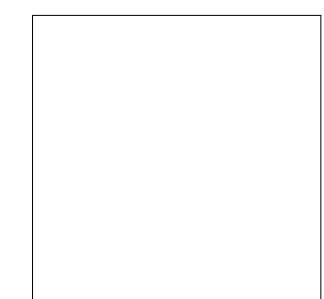


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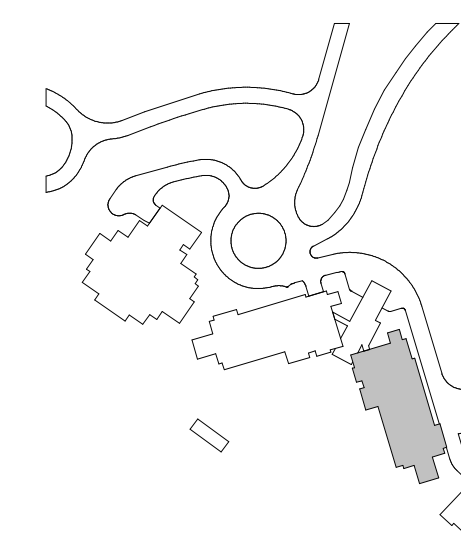


principal architect _____
project manager JCC _____
drawn by CRB, SMK _____
checked by Checker _____
job no. 20052
date 11/18/2022

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11/18/2022

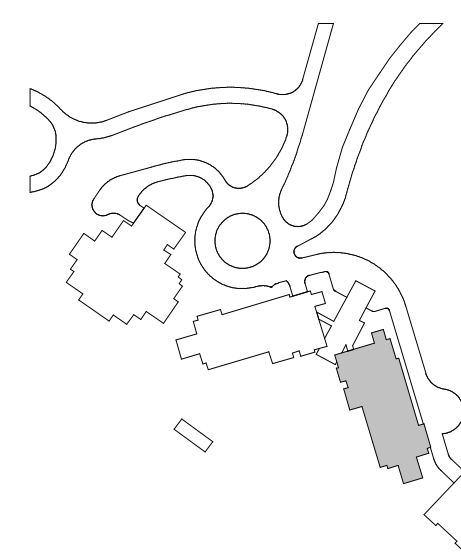
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project:
SOMMET BLANC - AB
DEER VALLEY, UTAH



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principal architect _____
project manager JCC _____
drawn by CRB SMK _____

checked by Checker
job no. 20052

revisions:

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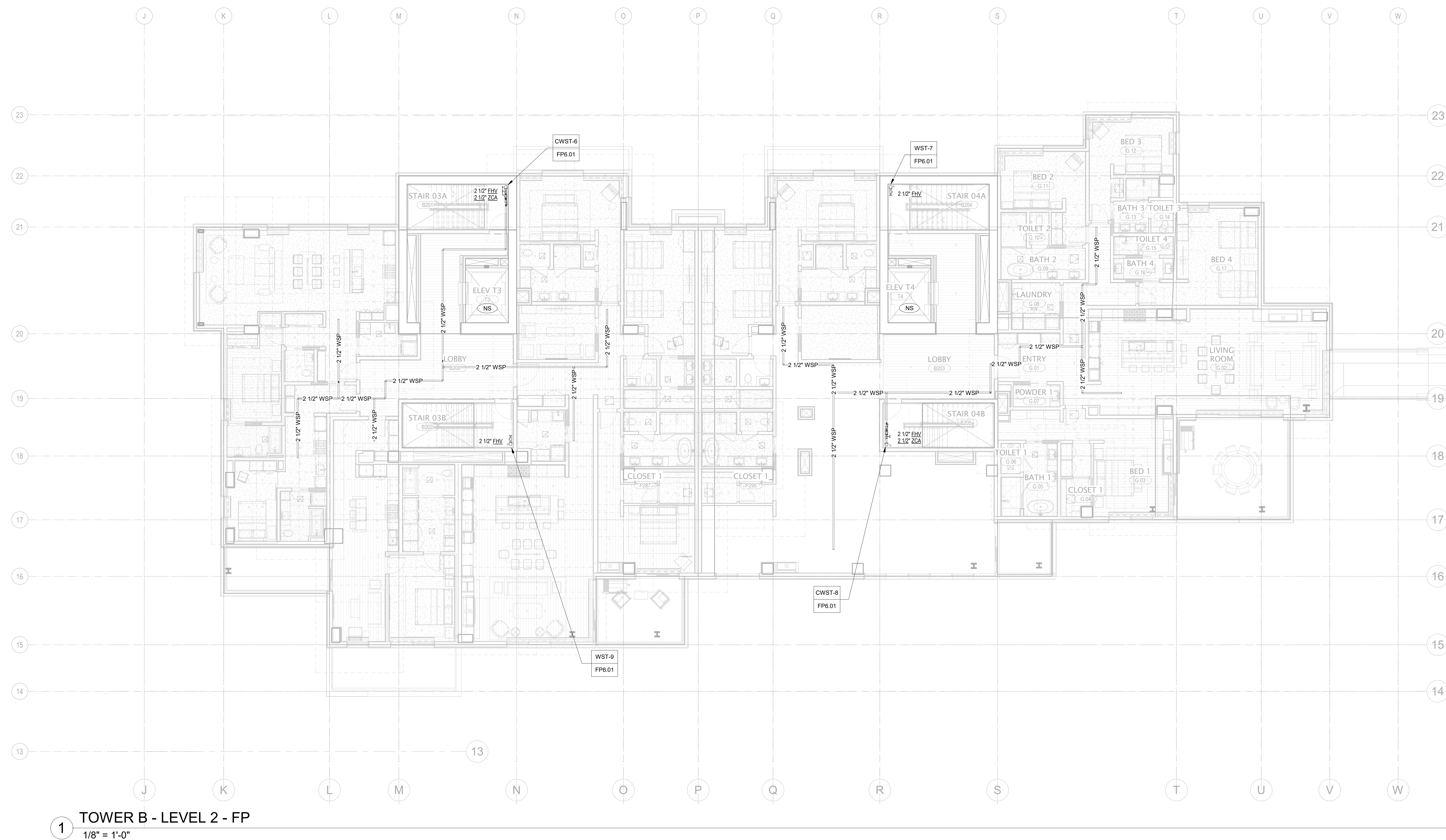
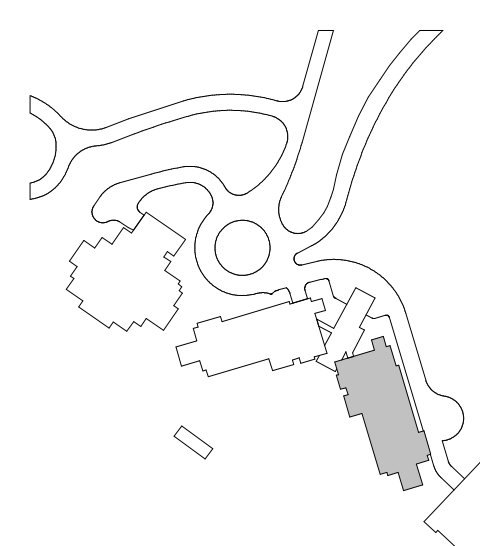
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CONSTRUCTION

11/18/2022

FIRE PROTECTION PLAN
- TOWER B - LVL 2

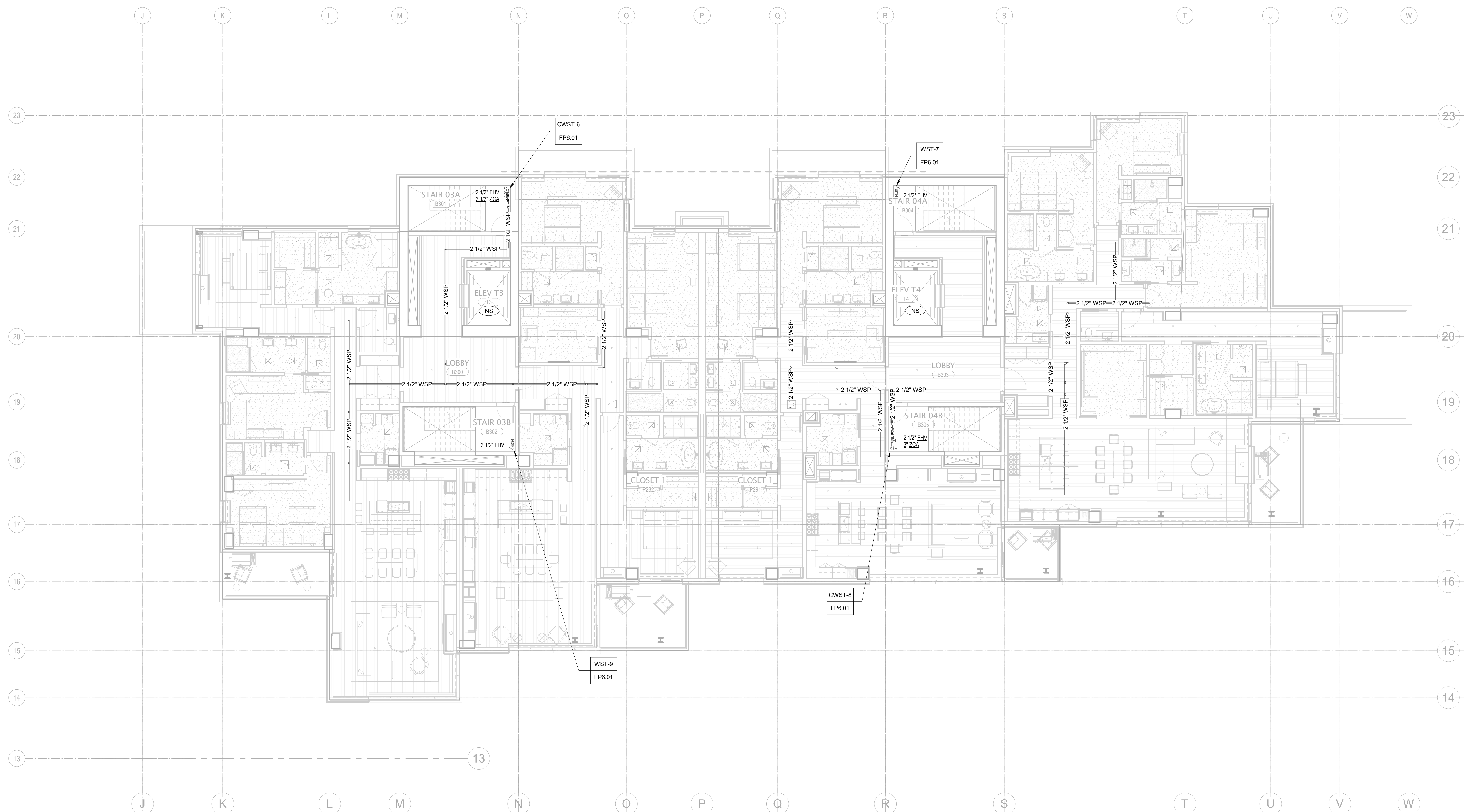
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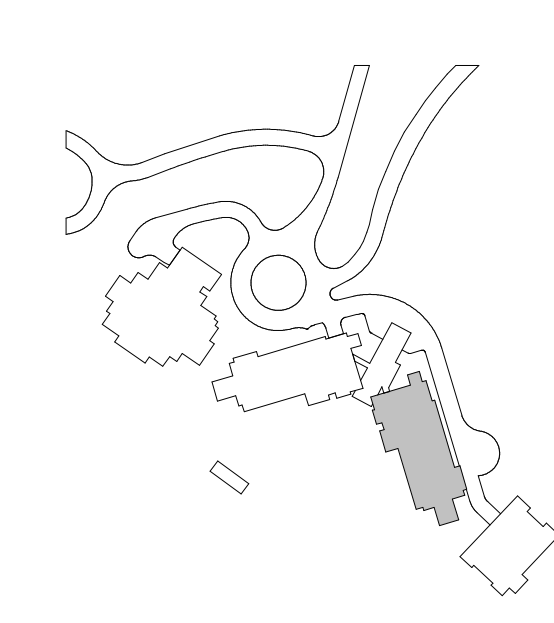
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1 TOWER B - LEVEL 3 - FP
1/8" = 1'-0"



GENERAL NOTES:

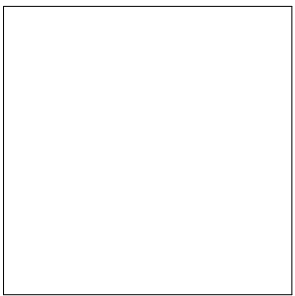
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principal architect

project manager

drawn by

checked by

job no.

date

revisions:

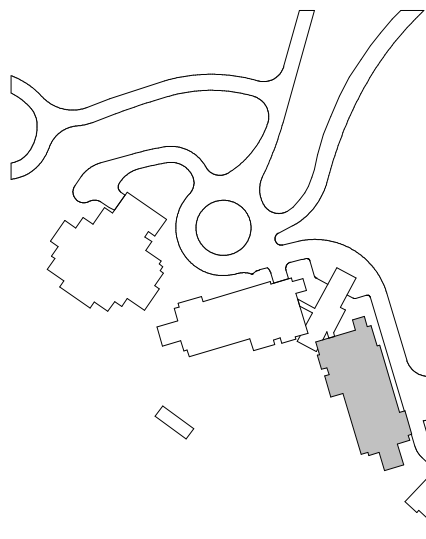
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FIRE PROTECTION PLAN
- TOWER B - LVL 4

FP2.2B.14



GENERAL NOTES:

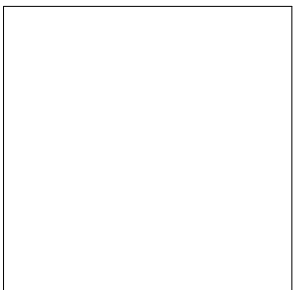
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principal architect _____
project manager _____ JCC
drawn by _____ CRB_SML
checked by _____ Checker
job no. _____ 2052
date _____ 11/18/2022

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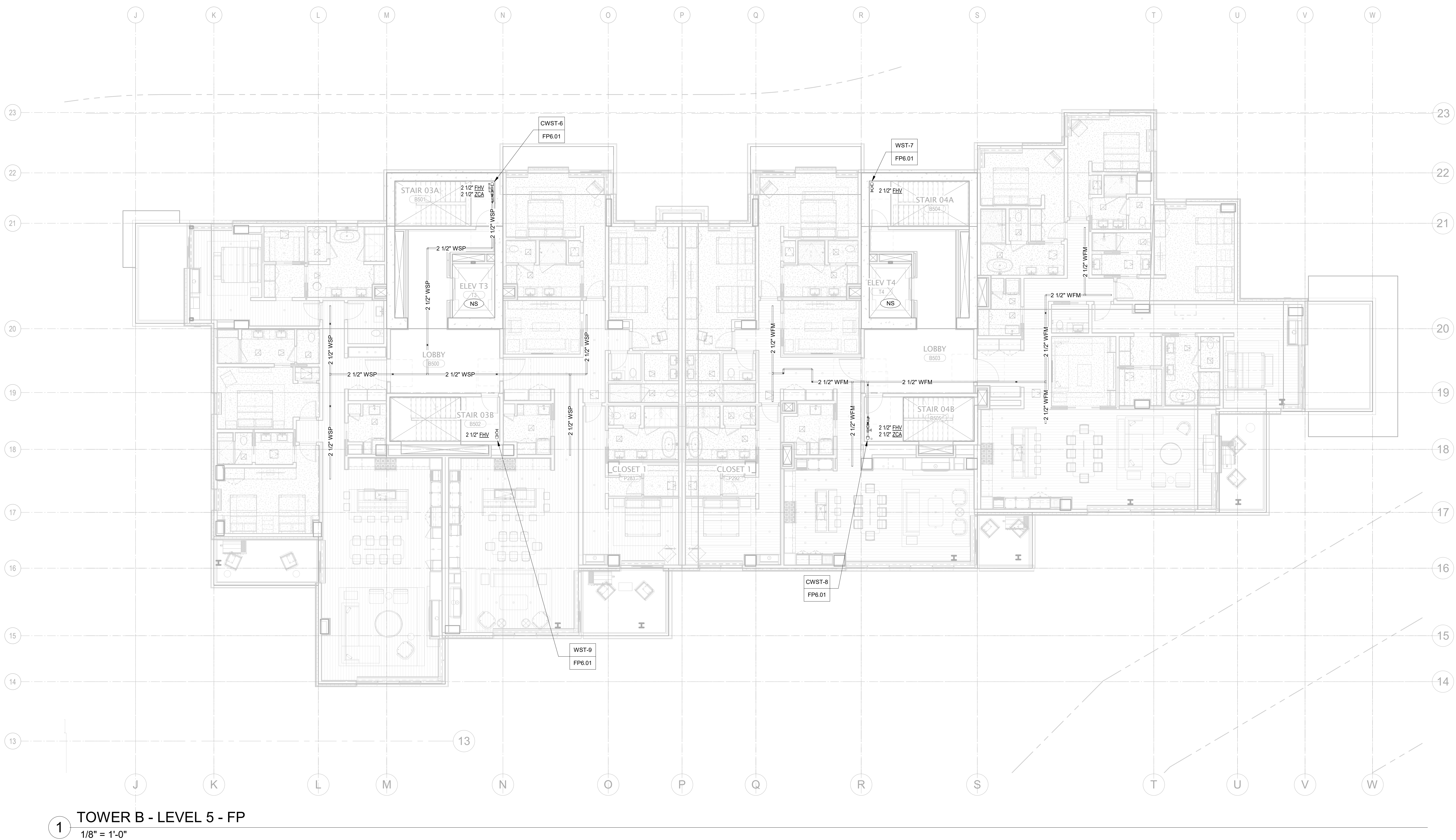
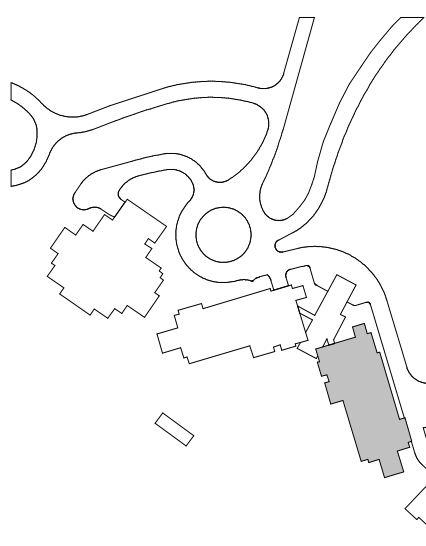
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11/18/2022

FIRE PROTECTION PLAN
- TOWER B - LVL 5

FP2.2B.15

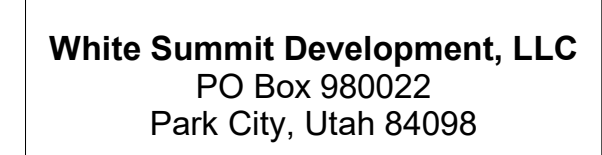


1 TOWER B - LEVEL 5 - FP
1/8" = 1'-0"

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project: **SOMMET BLANC - AB**
DEER VALLEY, UTAH

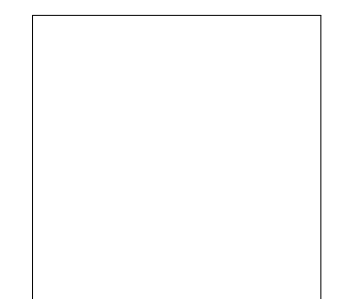


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WSP USA
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principal architect _____
project manager JCC _____
drawn by CRB, SMK _____
checked by Checker _____
job no. 20052
date 11/18/2022

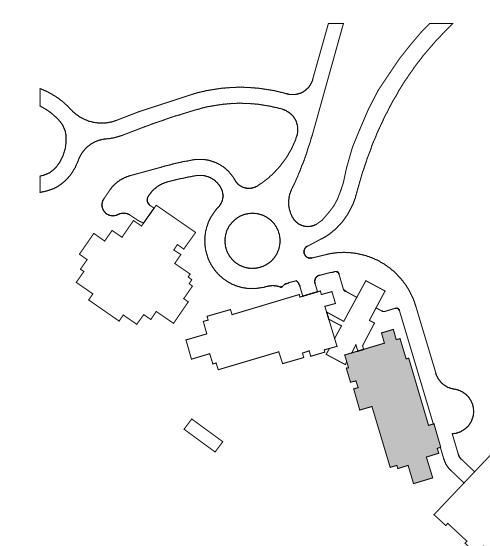
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no. date by

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E PROTECTION PLAN
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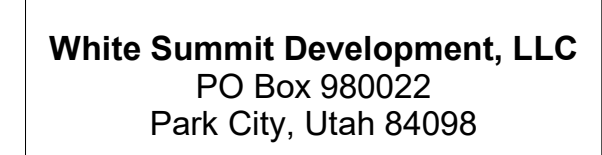
FP2.2B.17



1. SCOPE OF WORK INCLUDES SPRINKLER PROTECTION THROUGHOUT ALL AREAS IN ACCORDANCE WITH NFPA 13. SPRINKLERS ARE INDICATED IN AREAS WITH FINISHED CEILINGS FOR COORDINATION PURPOSES. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILED DESIGN OF BRANCH PIPING AND UPRIGHT SPRINKLERS IN AREAS WITHOUT FINISHED CEILINGS.
2. REFER TO TYPICAL UNIT PLANS FOR SPRINKLER LAYOUTS ON RESIDENTIAL FLOORS.

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project: **SOMMET BLANC - AB**
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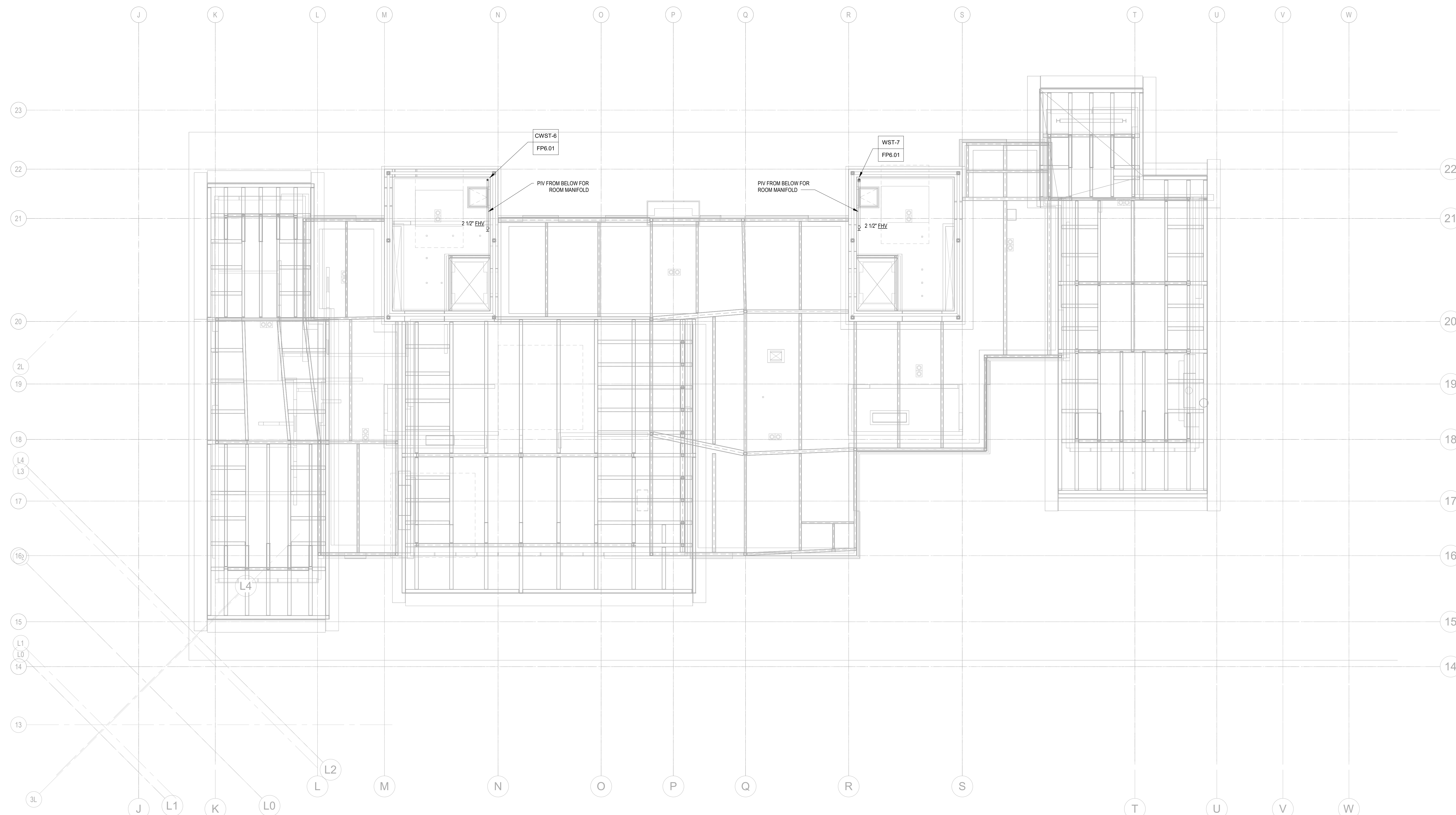
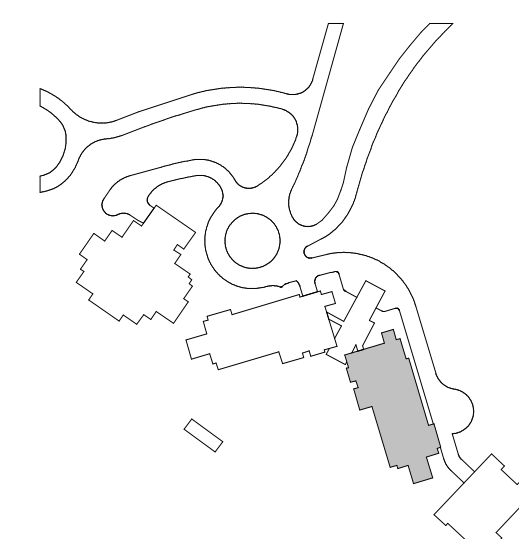
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FP2.2B.R



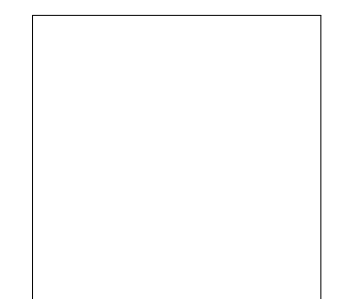
1 TOWER B - ROOF - FP
1/8" = 1'-0"

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principal architect TK
project manager JCC
drawn by CRB SMK

checked by Checker
job no. 20052

Revisions:

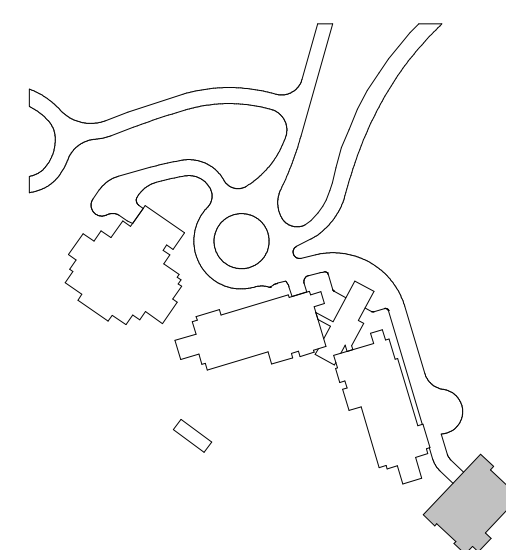
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11/18/2022

FIRE PROTECTION PLAN
- TOWER C - PARKING
LEVEL

FP2.2C.01

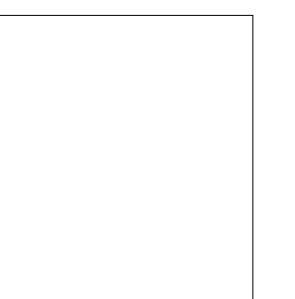


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checked by: Checker
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revisions:

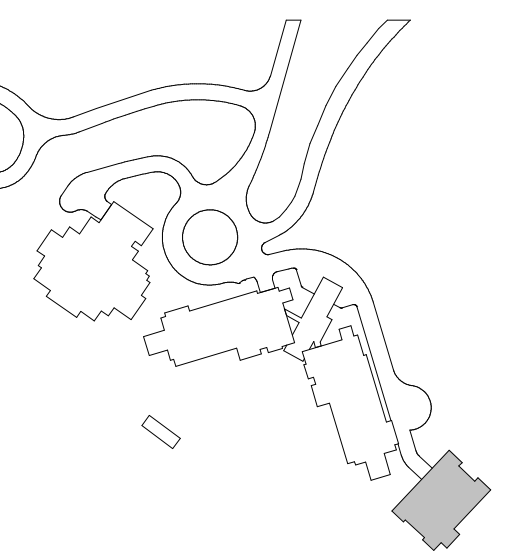
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11/18/2022

FIRE PROTECTION PLAN
TOWER C - LEVEL 1

FP2.2C.11



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project manager: JCC
drawn by: CRB, SMK
checked by: Checker
job no. 20052
date 11/18/2022

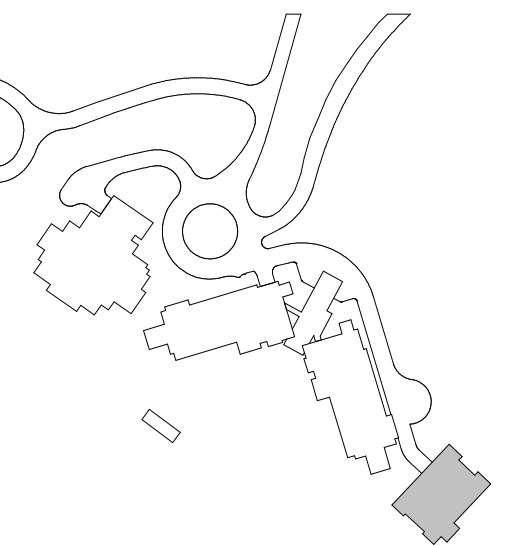
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11/18/2022

FIRE PROTECTION PLAN
TOWER C - LEVEL 2

FP2.2C.12

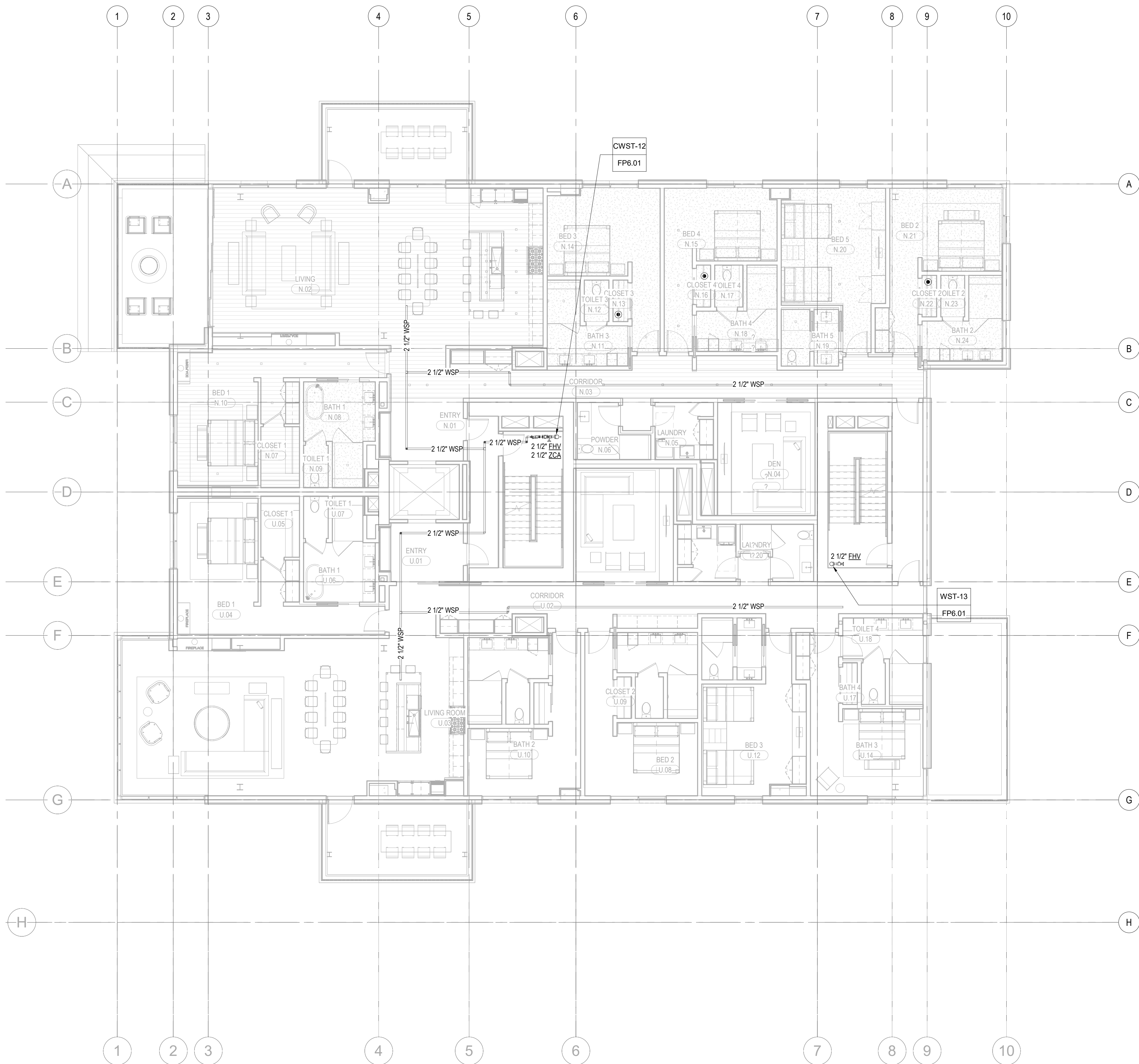


1 TOWER C - LEVEL 2 - FP
1/8" = 1'-0"



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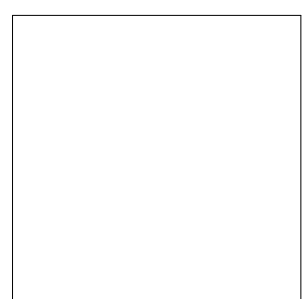
1 TOWER C - LEVEL 3 - FP
1/8" = 1'-0"

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project manager: JCC
drawn by: CRB_SMK
checked by: Checker
job no.: 2052
date: 11/18/2022

revisions:

no. date by

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CONSTRUCTION
11/18/2022

FIRE PROTECTION PLAN
- TOWER C - LEVEL 3

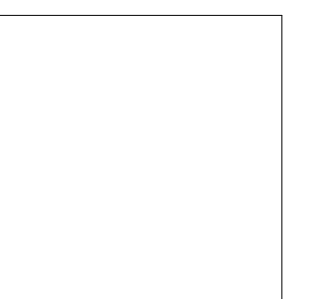
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principal architect: TK
project manager: JCC
drawn by: CRB, SMK

checked by: Checker
job no. 20052

revisions:

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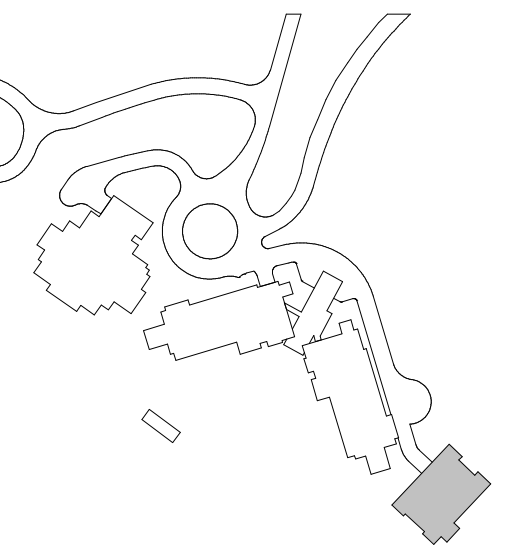
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CONSTRUCTION

11/18/2022

FIRE PROTECTION PLAN
TOWER C - LEVEL 4

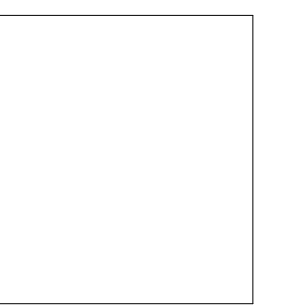
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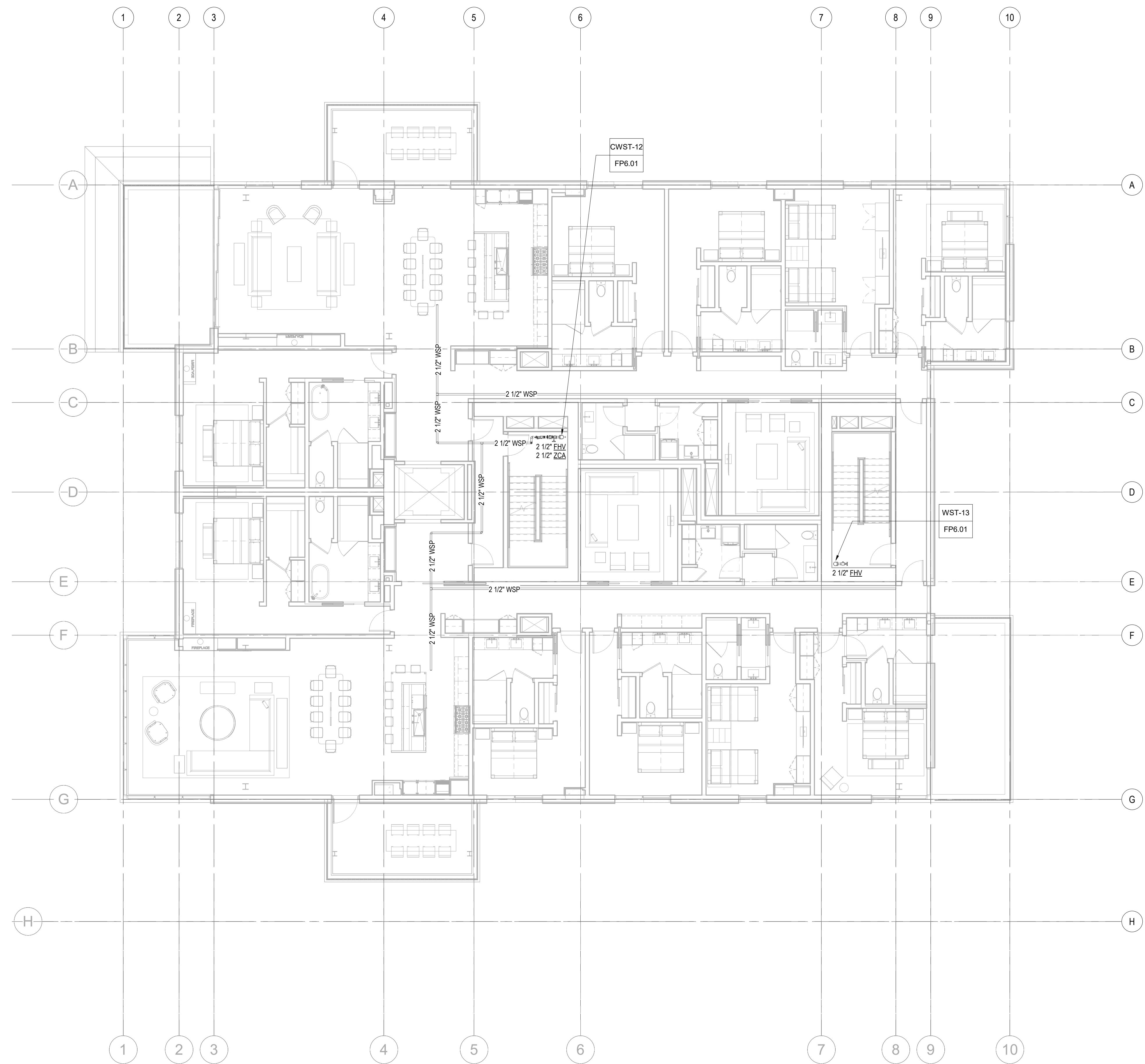
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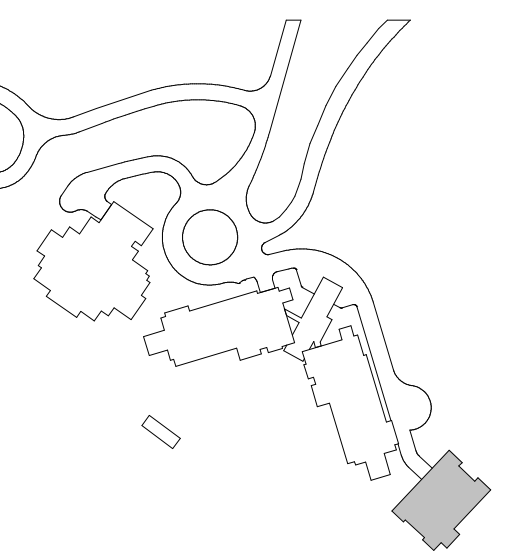
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11/18/2022

FIRE PROTECTION PLAN
TOWER C - LEVEL 5

FP2.2C.15



1 TOWER C - LEVEL 5 - FP
1/8" = 1'-0"



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job no. 20052

revisions:

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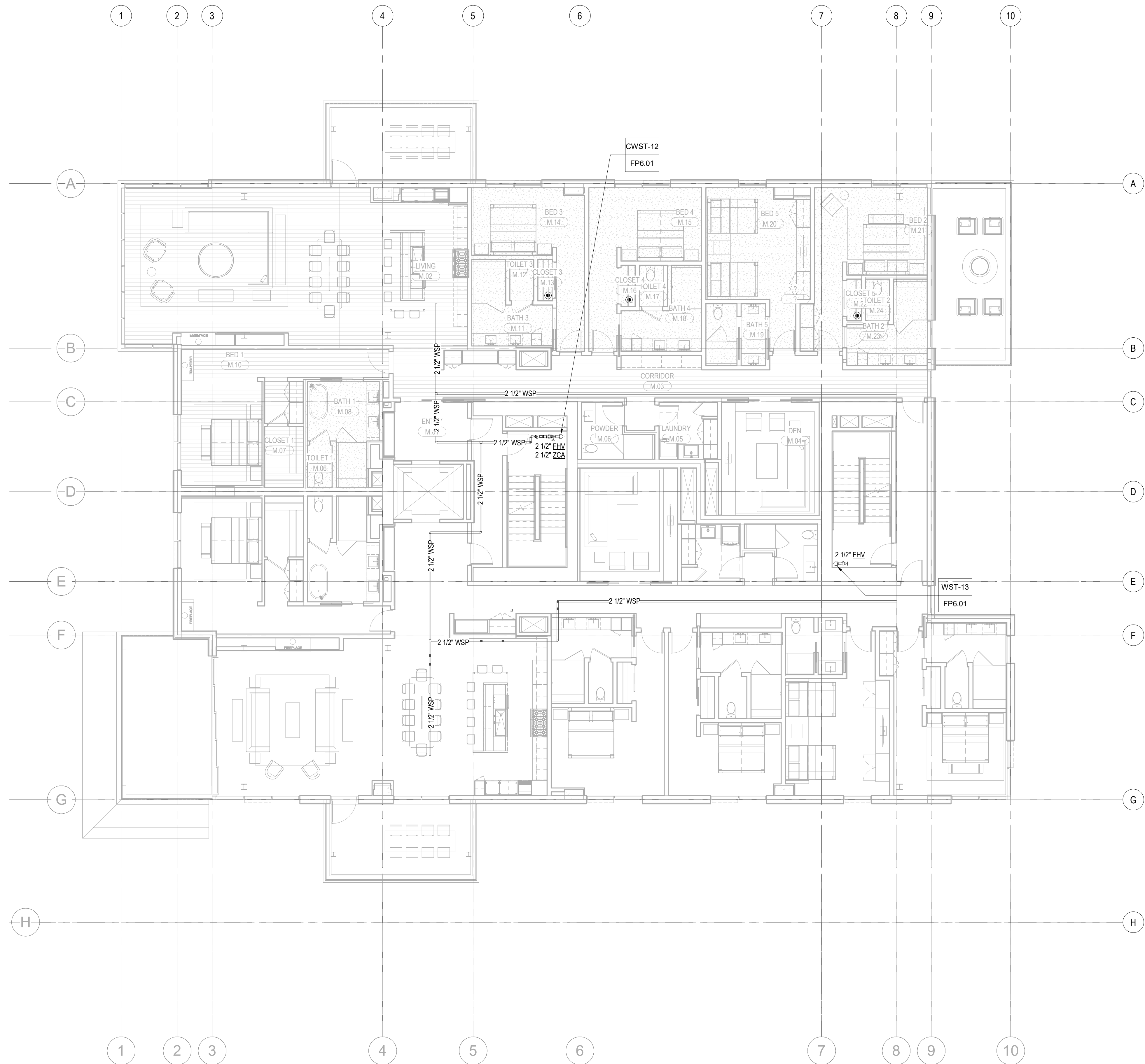
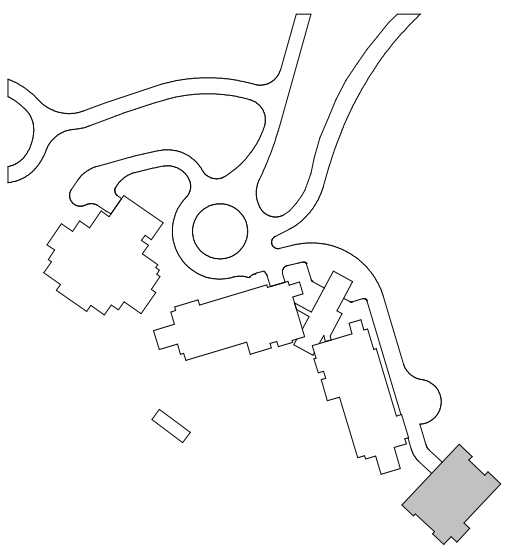
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FIRE PROTECTION PLAN
TOWER C - LEVEL 6

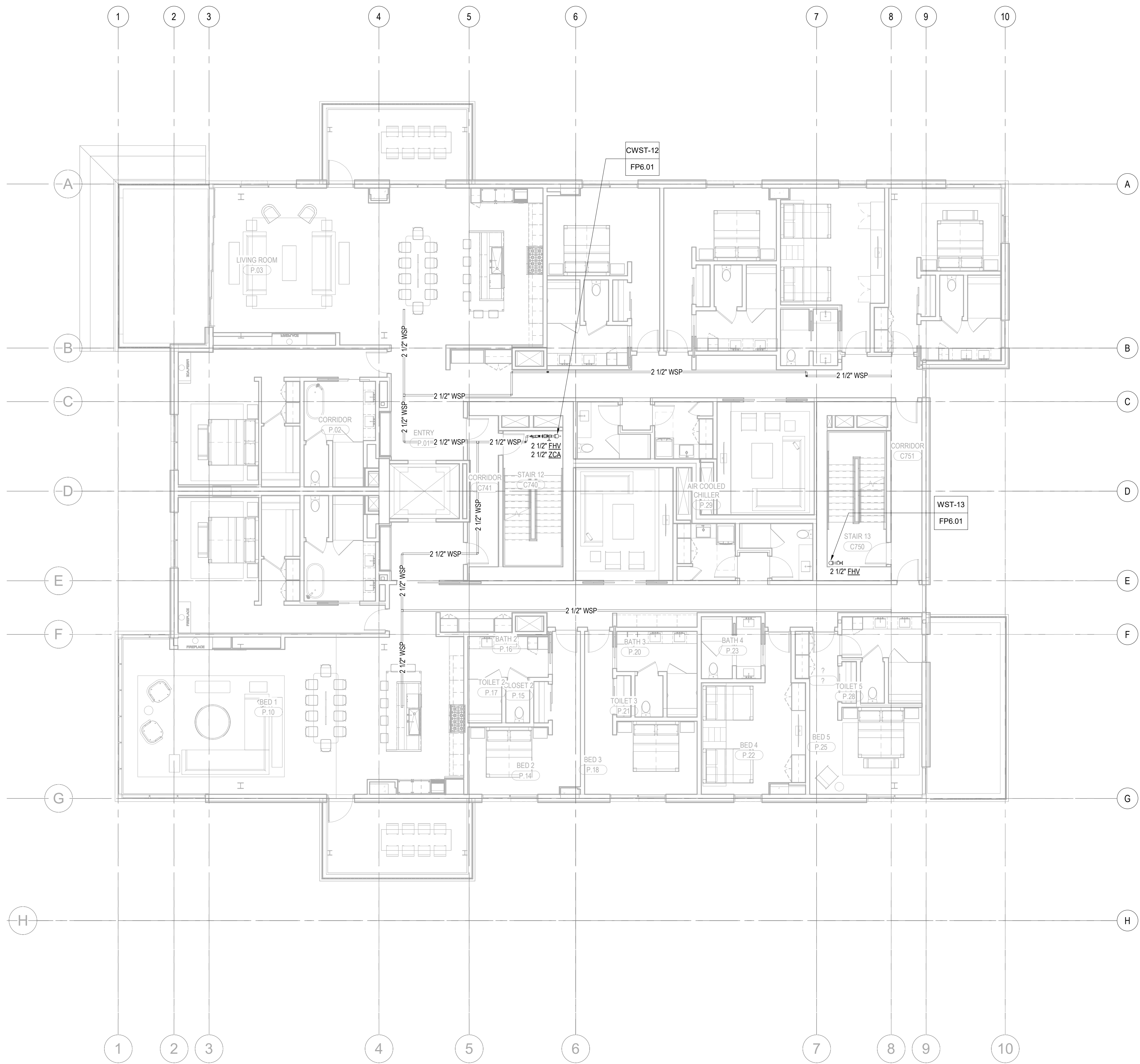
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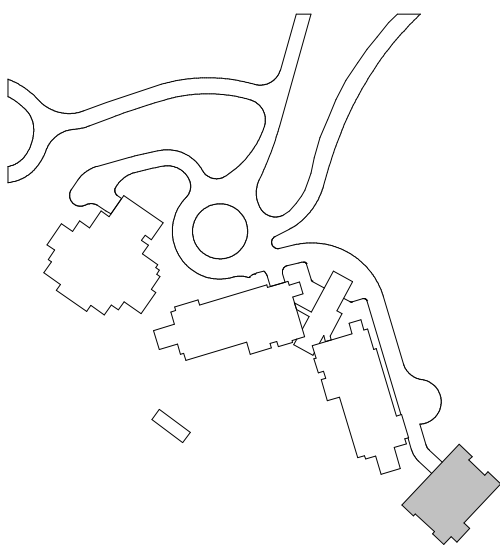
1 TOWER C - LEVEL 6 - FP
1/8" = 1'-0"

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1 TOWER C - LEVEL 7 - FP
1/8" = 1'-0"

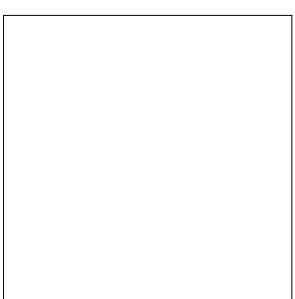


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job no.: 2052
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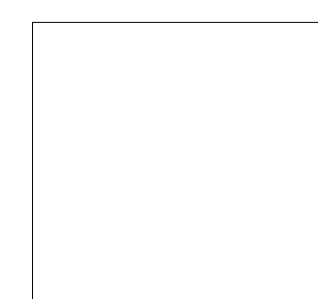
FIRE PROTECTION PLAN
- TOWER C - LEVEL 7

FP2.2C.17

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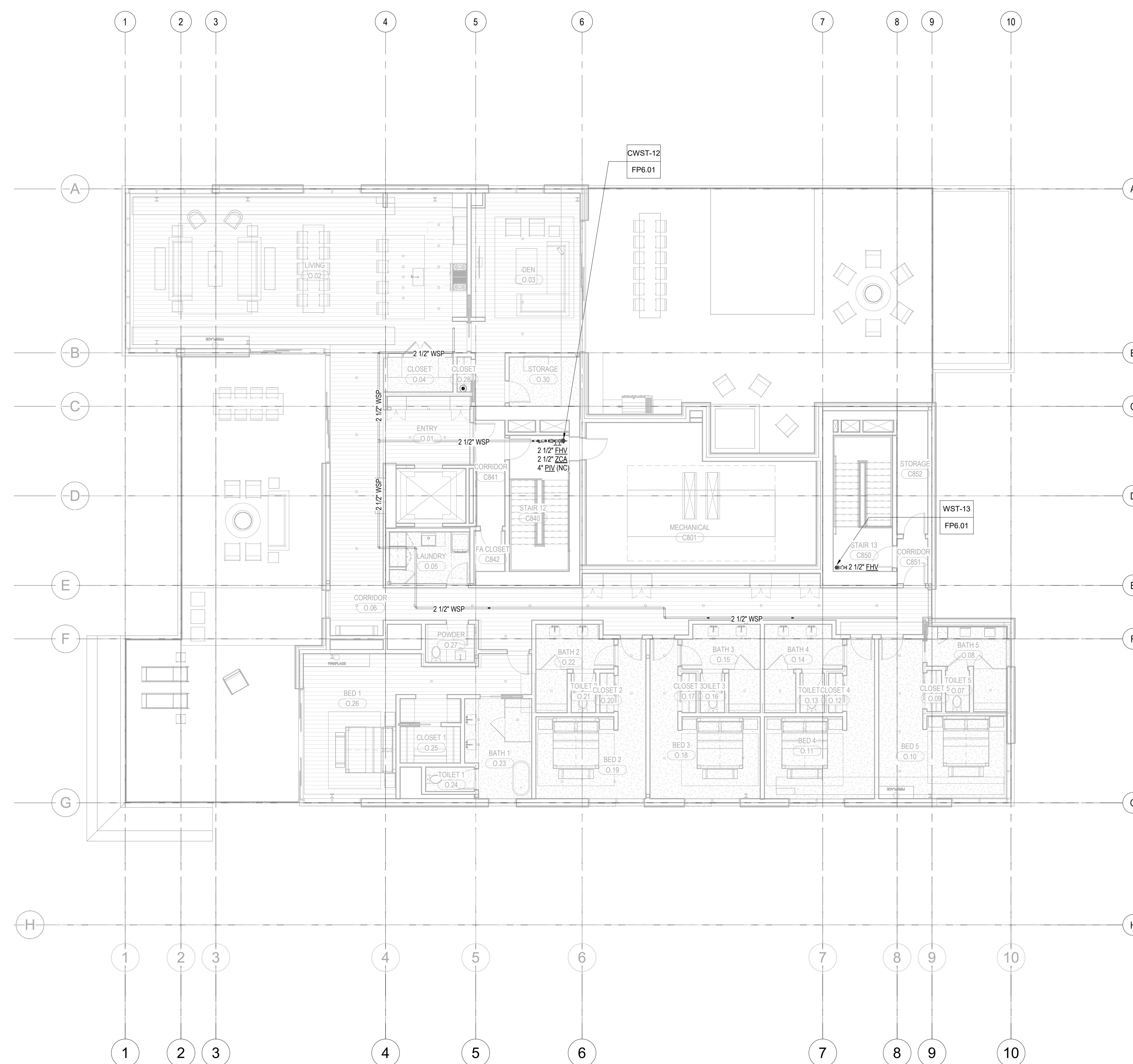
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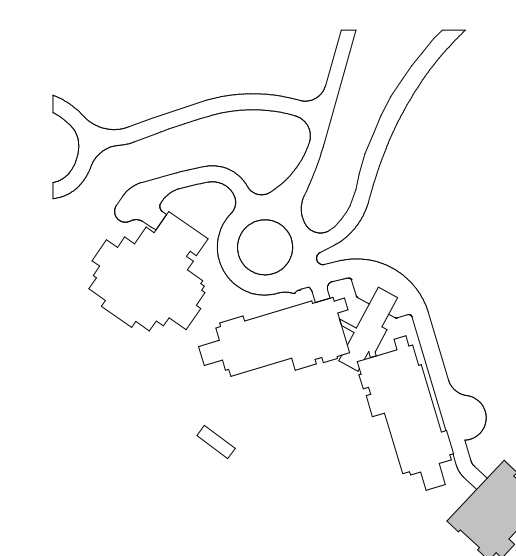
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FIRE PROTECTION PLAN
- TOWER C - LEVEL 8

FP2.2C.18



1 TOWER C - LEVEL 8 - FP
1/8" = 1'-0"



1. SCOPE OF WORK INCLUDES SPRINKLER PROTECTION THROUGHOUT ALL AREAS IN ACCORDANCE WITH NFPA 13. SPRINKLERS ARE INDICATED IN HYDRAULIC CALCULATION REMOTE AREAS AND AREAS WITH FINISHED CEILINGS FOR COORDINATION PURPOSES. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILED DESIGN OF BRANCH PIPING AND UPRIGHT SPRINKLERS IN AREAS WITHOUT FINISHED CEILINGS.

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project manager JCC
drawn by CRB, SMK
checked by Checker
job no. 20052
date 11/18/2022

revisions.

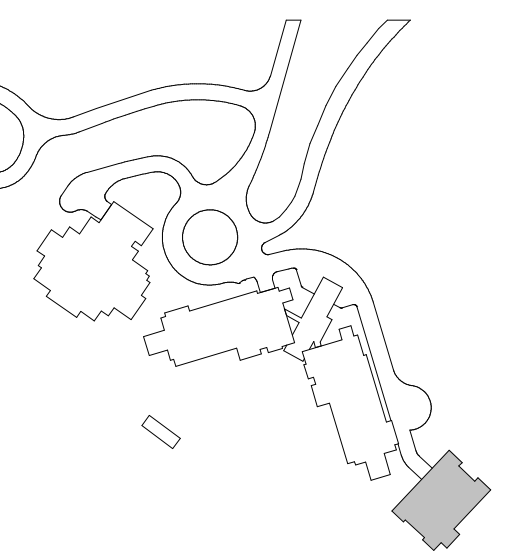
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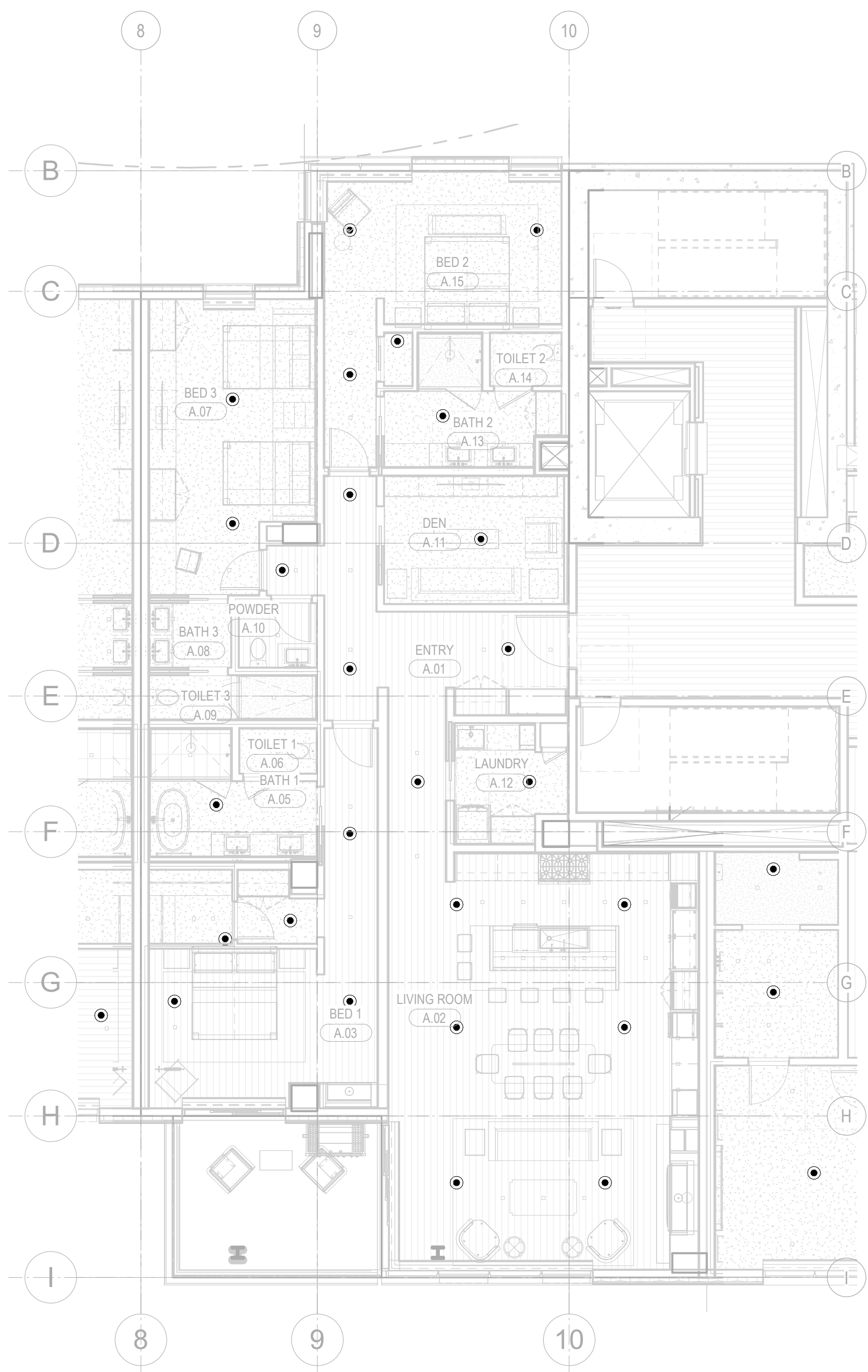
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FIRE PROTECTION PLAN
TOWER C - ROOF
LEVEL

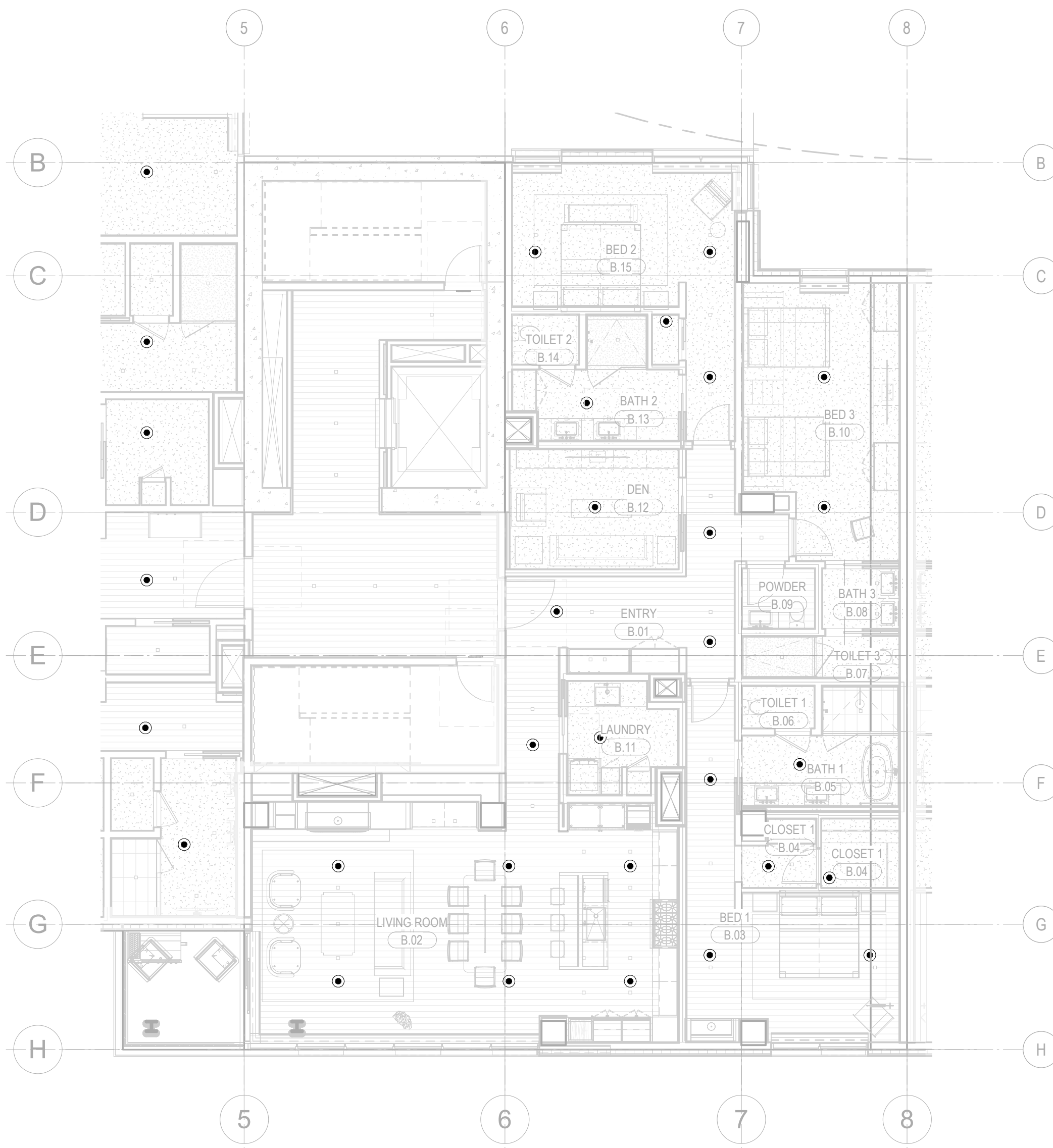
FP2.2C.R

1 TOWER C - ROOF - FP
1/8" = 1'-0"





1 ENLARGED PLAN - TOWER A/B-UNIT A
1/8" = 1'-0"



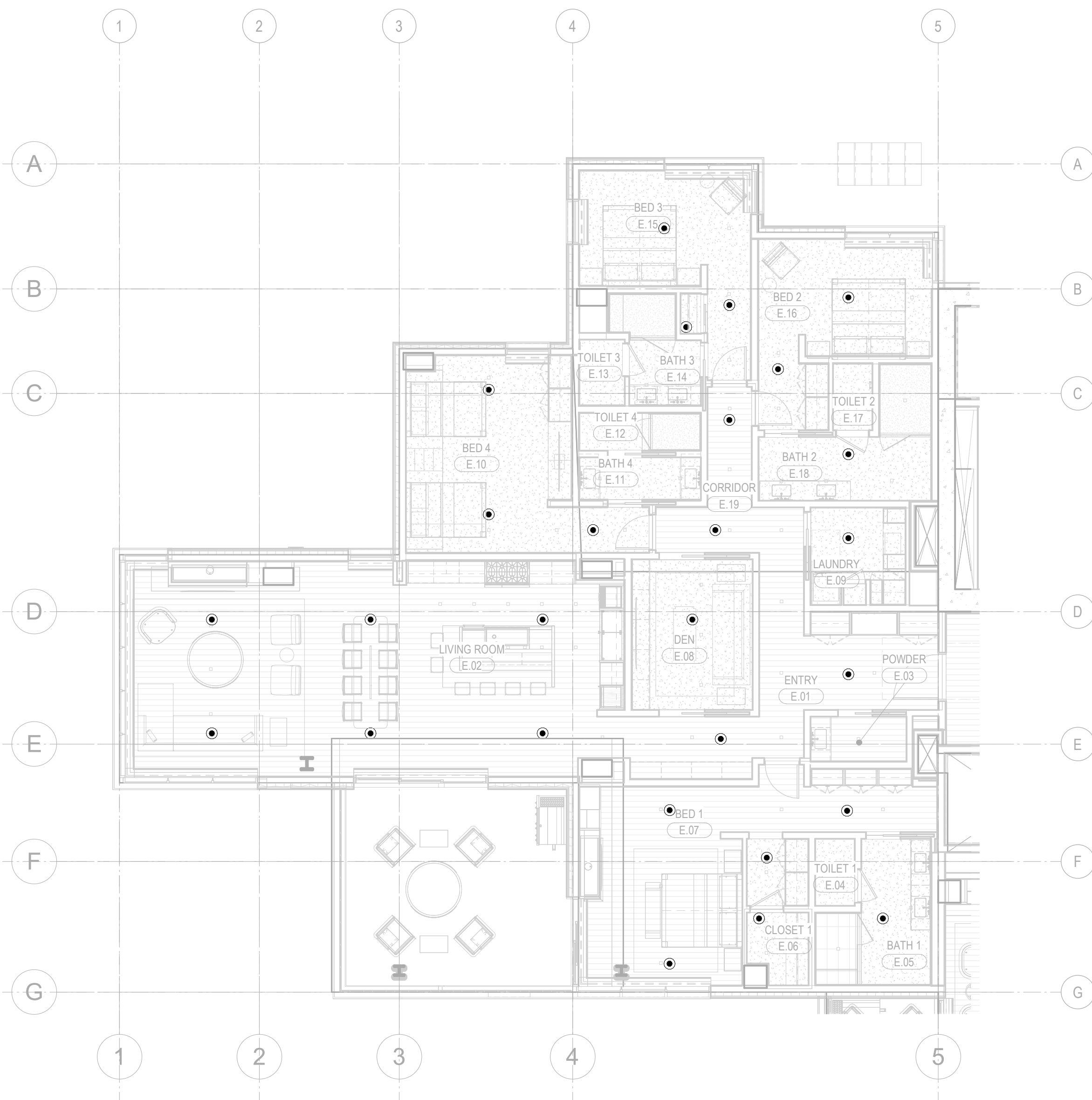
2 ENLARGED PLAN - TOWER A/B-UNIT B
1/8" = 1'-0"



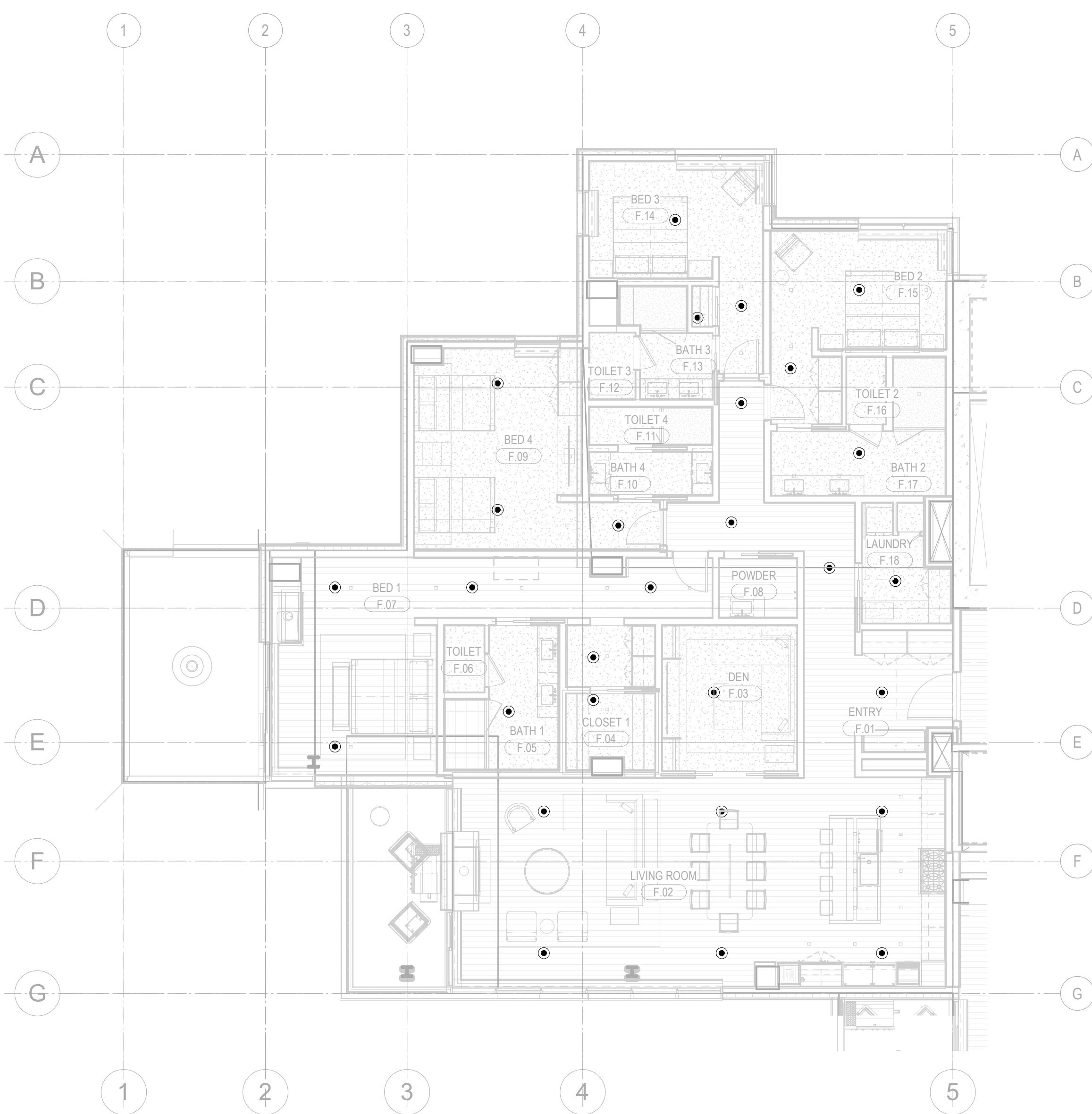
3 ENLARGED PLAN - TOWER A/B-UNIT C
1/8" = 1'-0"



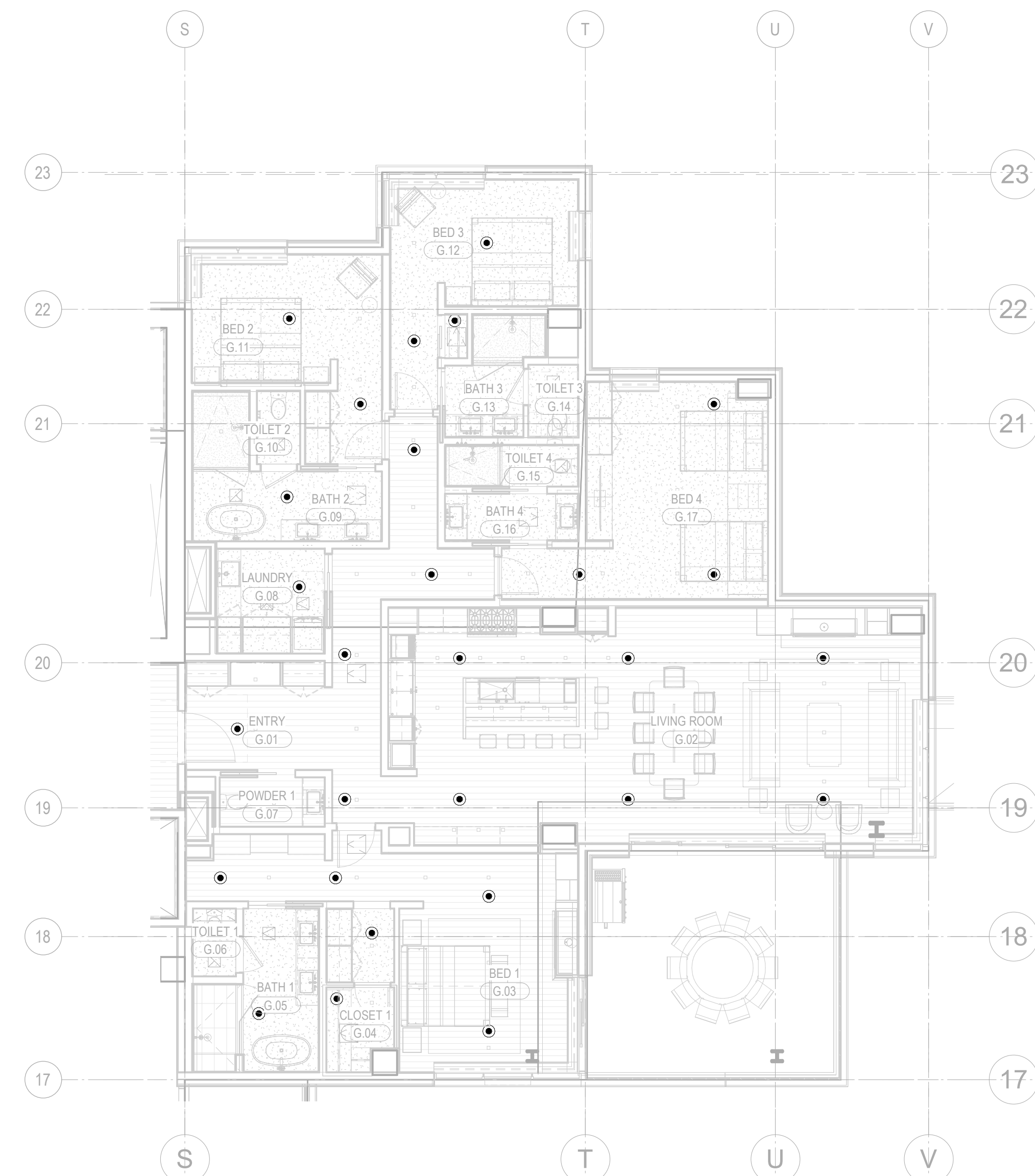
4 ENLARGED PLAN - TOWER A/B-UNIT D
1/8" = 1'-0"



5 ENLARGED PLAN - TOWER A/B-UNIT E
1/8" = 1'-0"



6 ENLARGED PLAN - TOWER A/B-UNIT F
1/8" = 1'-0"



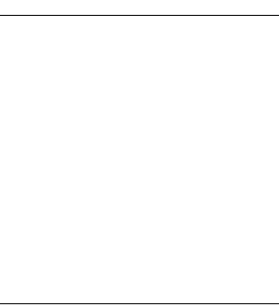
7 ENLARGED PLAN - TOWER A/B-UNIT G
1/8" = 1'-0"

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checked by—JCC
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FIRE PROTECTION UNIT
PLANS - TOWER A/B

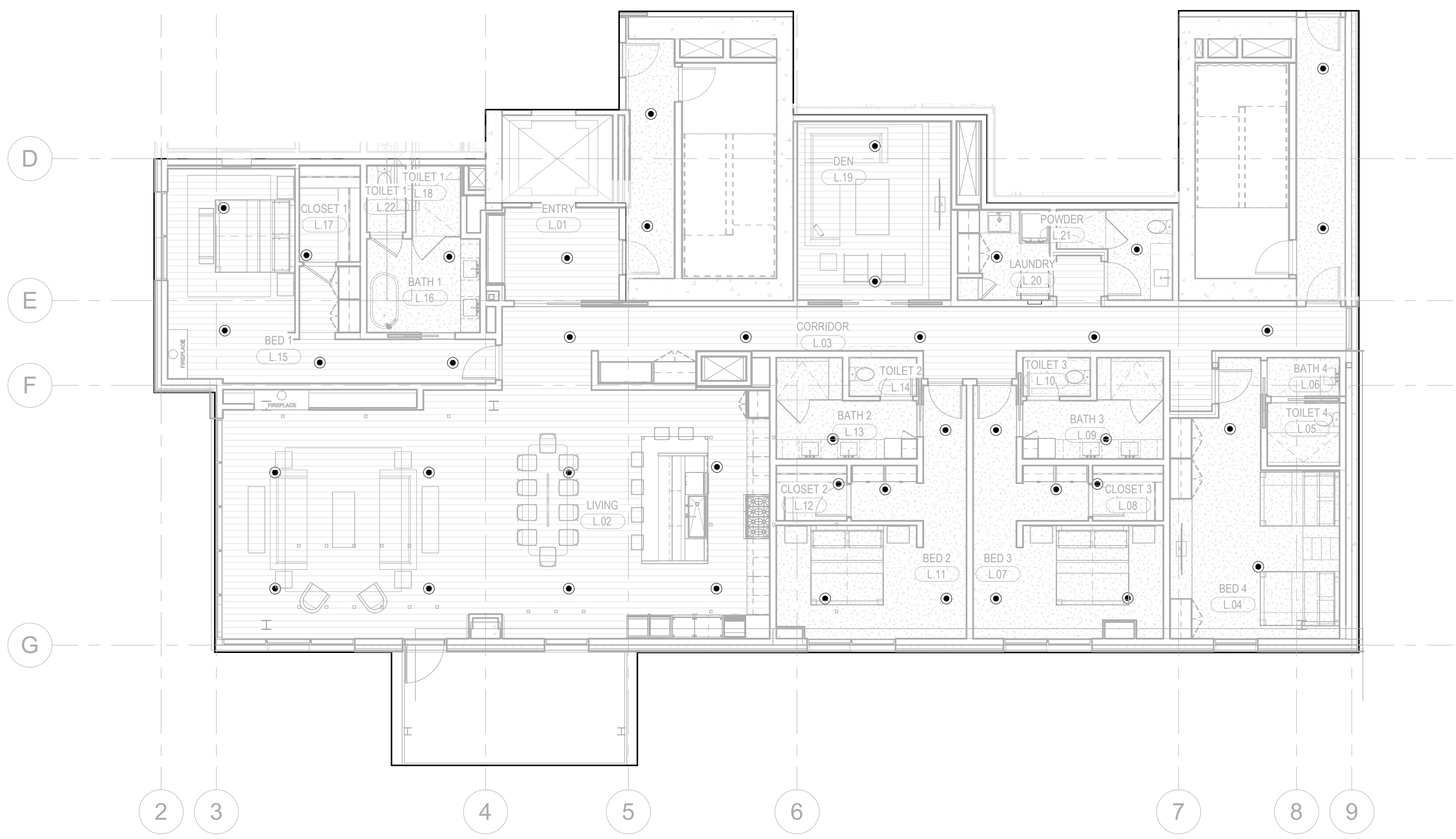
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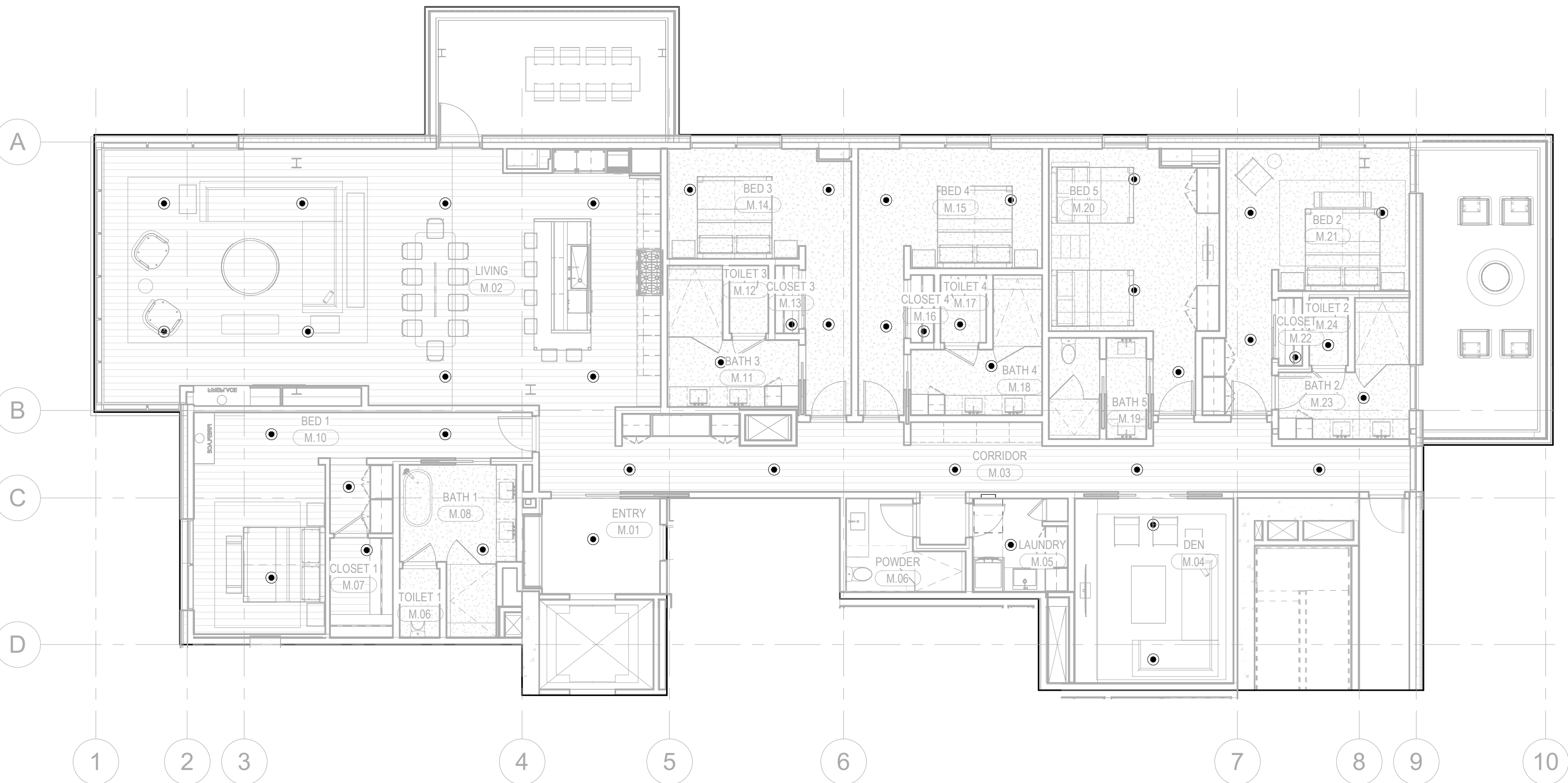
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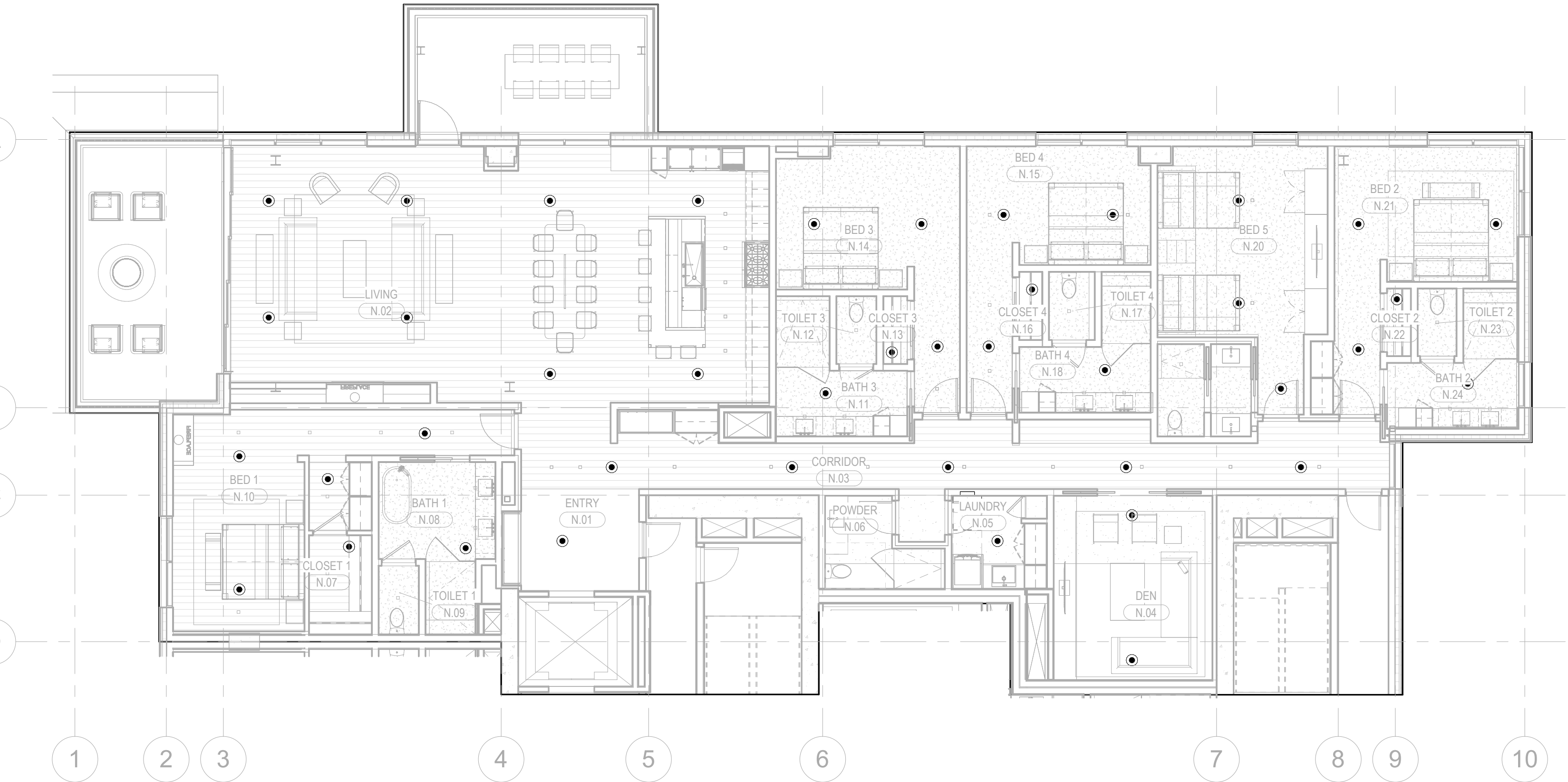
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1 ENLARGED PLAN - C -UNIT L
1/8" = 1'-0"



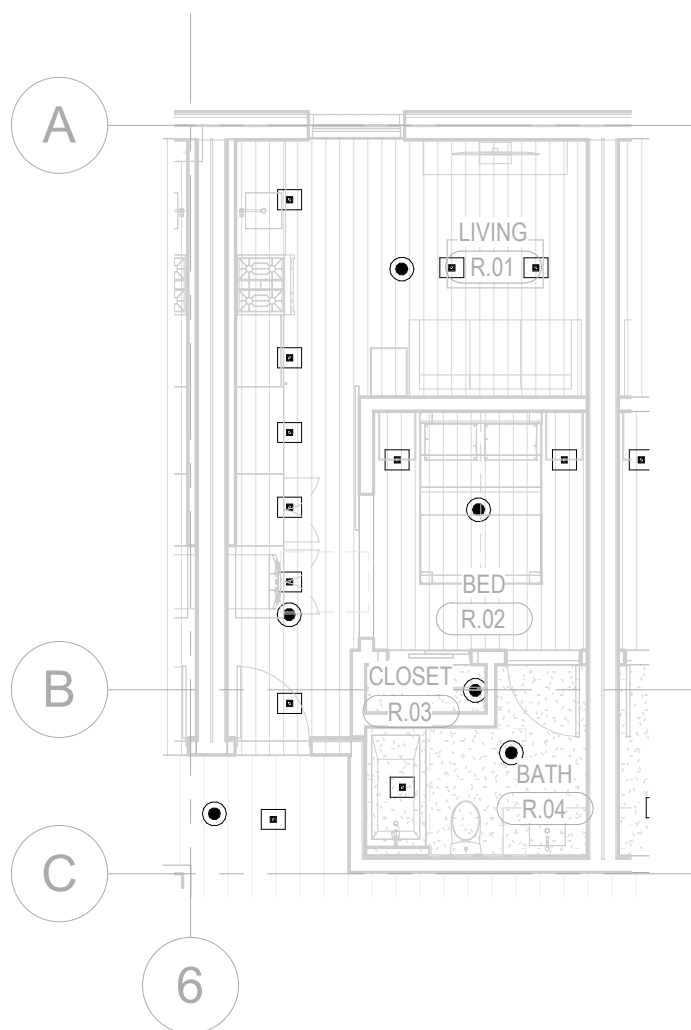
2 ENLARGED PLAN - C -UNIT M
1/8" = 1'-0"



3 ENLARGED PLAN - C -UNIT N
1/8" = 1'-0"



4 ENLARGED PLAN - C -UNIT O
1/8" = 1'-0"



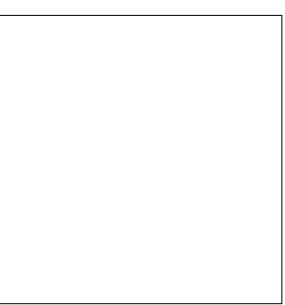
5 ENLARGED PLAN - C -UNIT R
1/8" = 1'-0"

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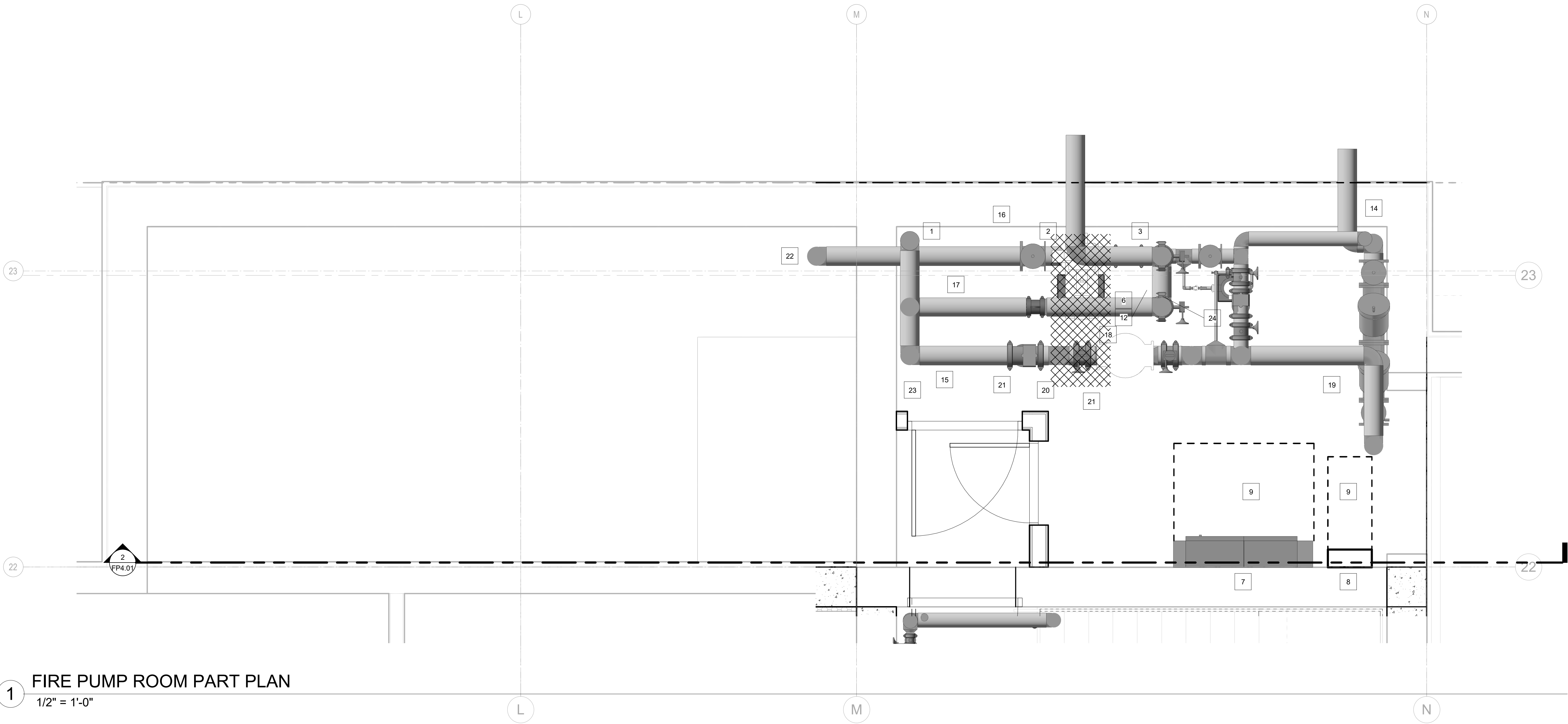
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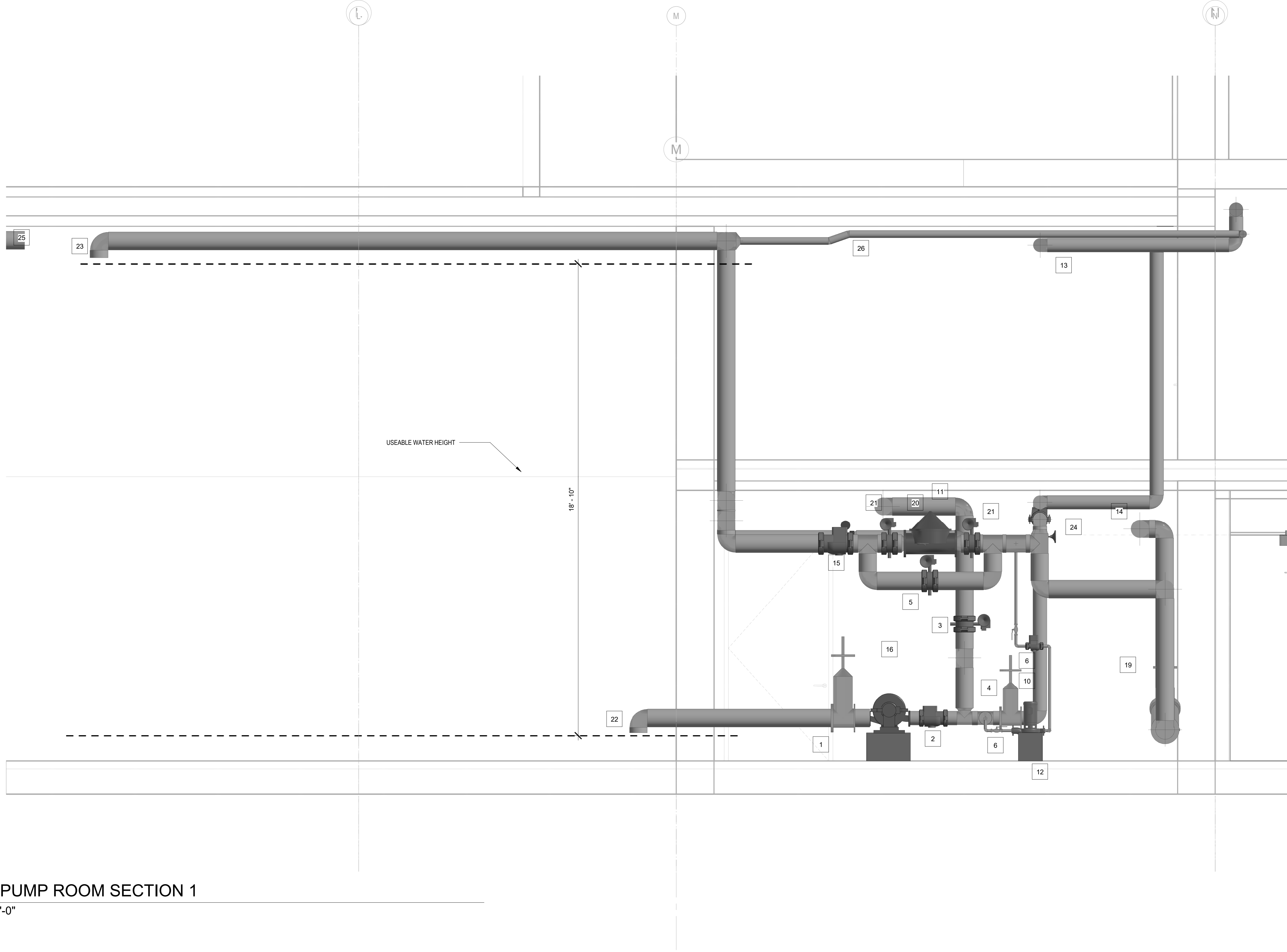
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FIRE PROTECTION UNIT
PLANS - TOWER C

FP2.4.03



1 FIRE PUMP ROOM PART PLAN
1/2" = 1'-0"



2 FIRE PUMP ROOM SECTION 1
1/2" = 1'-0"

FIRE PUMP EQUIPMENT LIST	
1 8" OS&Y GATE VALVE (TANK ISOLATION)	14 8" WFM FROM INCOMING FIRE WATER SERVICE
2 8" CHECK VALVE (FIRE PUMP DISCHARGE)	15 8" CHECK VALVE
3 8" NC BUTTERFLY VALVE (FIRE PUMP TEST)	16 ELECTRIC DRIVE FIRE PUMP (FP-1) HATCH SHOWS FIRE PUMP FOOTPRINT
4 6" OS&Y GATE VALVE W/ ELECTRONIC ACTUATOR BASIS OF DESIGN KENNEDY MODEL 656 (ASS-ZDMG-1) (FIRE PUMP DISCHARGE)	17 8" FLOW METER
5 8" NC BYPASS VALVE	18 8" NC BUTTERFLY VALVE (FLOW METER ISOLATION)
6 BALL VALVE (PMP)	19 8" DOUBLE CHECK VALVE ASSEMBLY
7 FIRE PUMP CONTROLLER W/ ATS	20 8" FLOAT VALVE (TANK FILL); PROVIDE 120 VAC WATER LEVEL MONITORING PANEL WITH LOW LEVEL AND HIGH LEVEL ALARMS
8 PRESSURE MAINTENANCE PUMP CONTROLLER	21 8" BUTTERFLY VALVE (FLOAT VALVE ISOLATION)
9 NEC REQUIRED 42" WORKING CLEARANCE	22 8" TANK SUCTION W/ ANTI-VORTEX PLATE (NOT SHOWN)
10 CHECK VALVE (PRESSURE MAINTENANCE PUMP DISCHARGE)	23 8" UP TO TANK FILL
11 8" TH TO FIRE PUMP TEST HEADER (EXACT LOCATION TBD)	24 8" BYPASS ASSEMBLY
12 ELECTRIC DRIVE PRESSURE MAINTENANCE PUMP (PMP-1)	25 8" TANK OVERFLOW TO STORM
13 6" WFM TO MAIN DISTRIBUTION	26 STANDPIPE DRAIN RETURN TO TANK

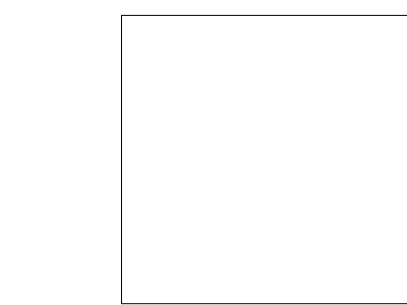
ELECTRIC FIRE PUMP SCHEDULE													
DRAWING DESIGNATION	FUNCTION	PUMP TYPE	BASIS OF DESIGN PERFORMANCE CURVE	CAPACITY (GPM)	BOOST (PSI)	CHURN (PSI)	ELECTRICAL				SET POINTS		
FP-1	FIRE PUMP	HORIZONTAL SPLIT CASE	FEELERLESS SAFEF12	1,000	180	212	HP	V	PH	RZ	RPM	START	STOP
PMP-1	PRESSURE MAINTENANCE PUMP	VERTICAL INLINE	---	10	200	-	3	208	3	60	3,550	205	215

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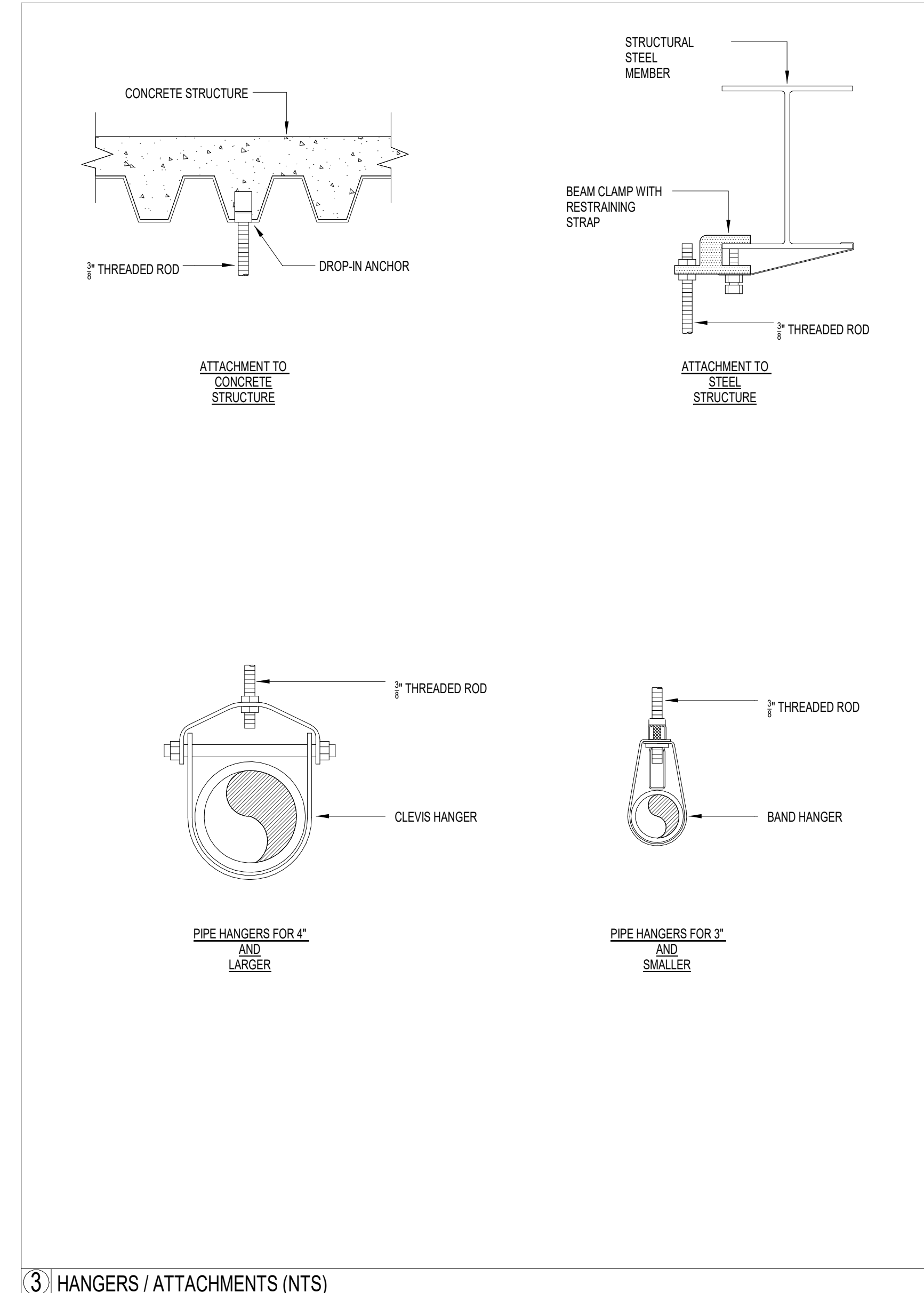
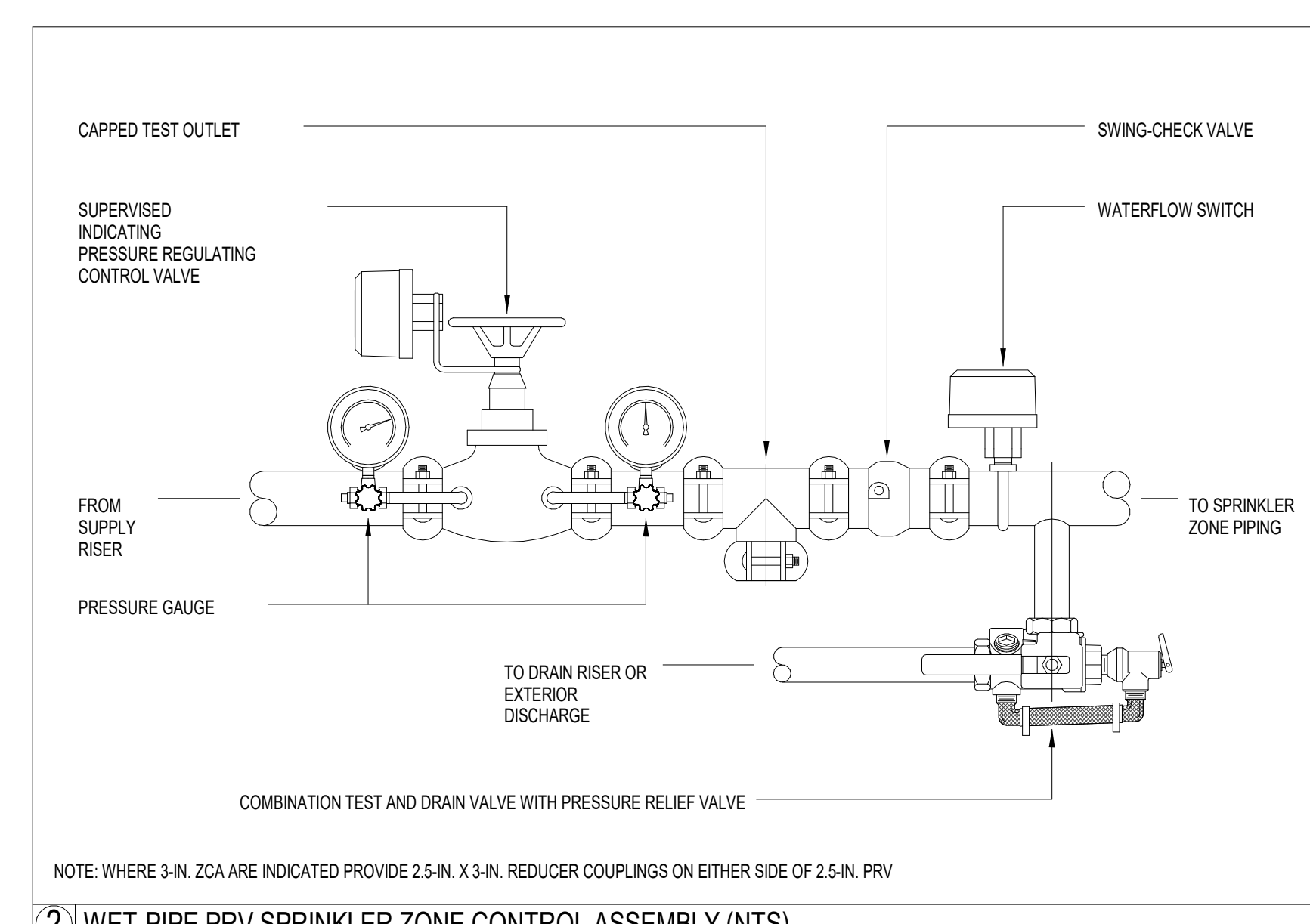
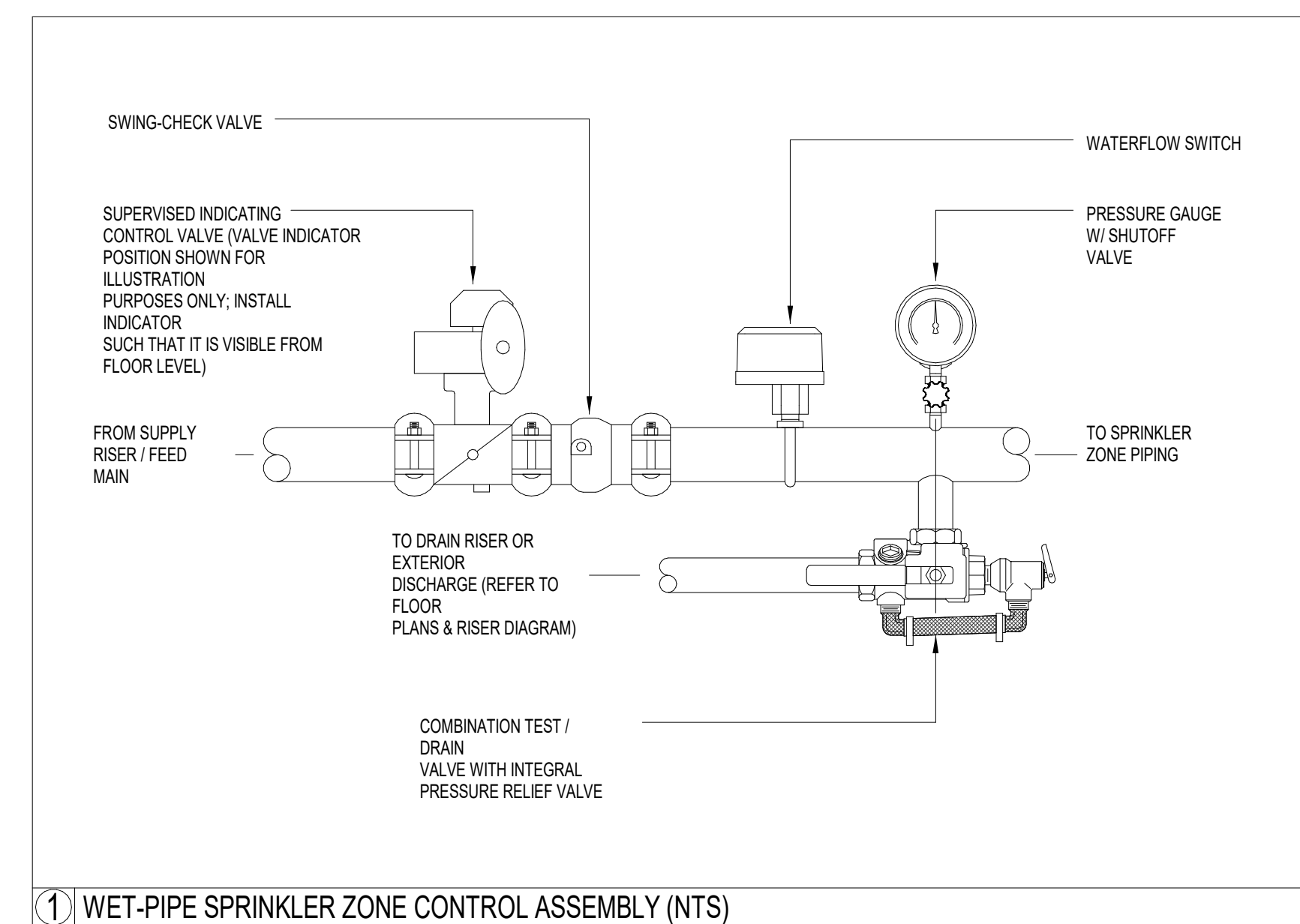
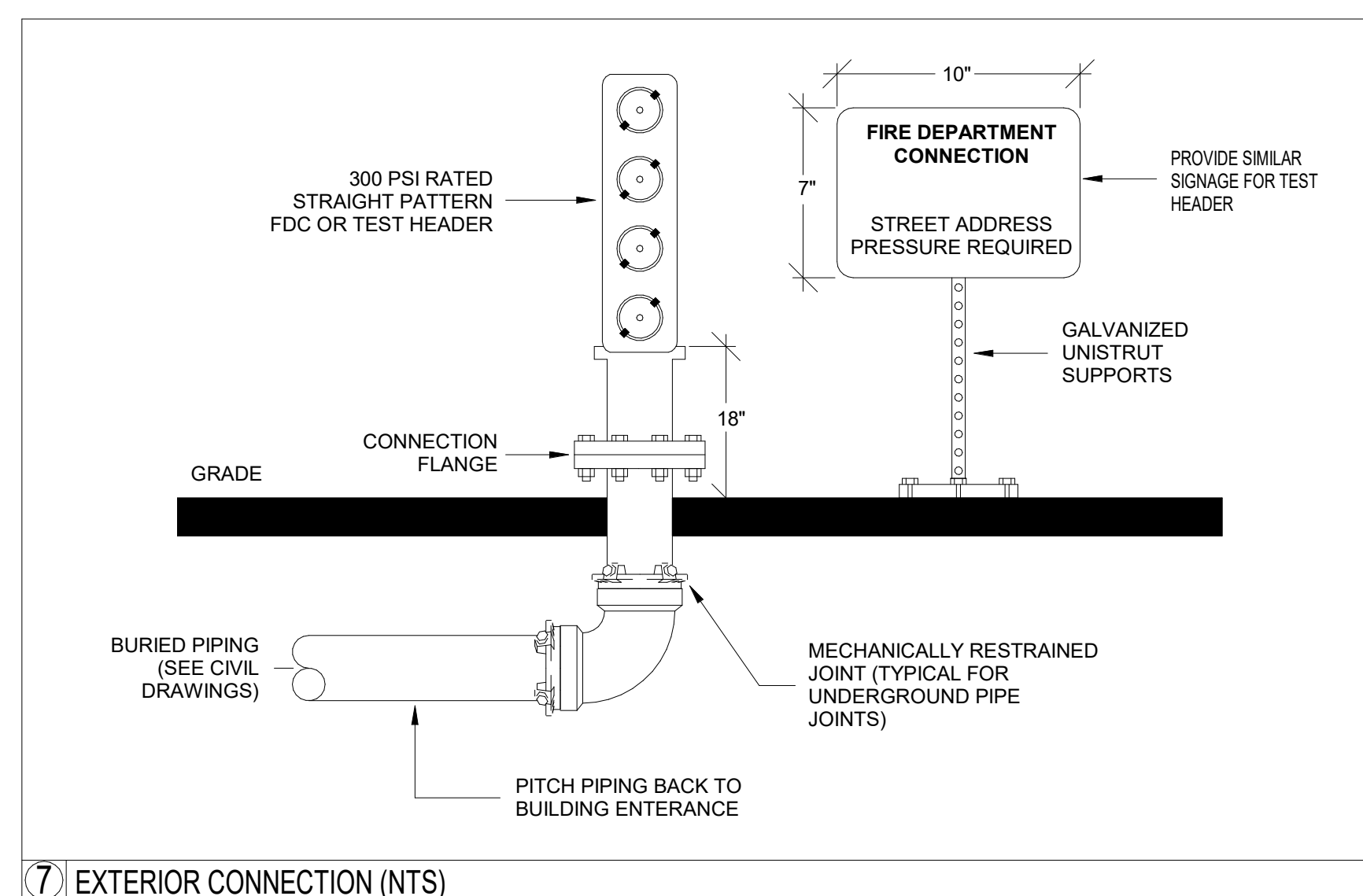
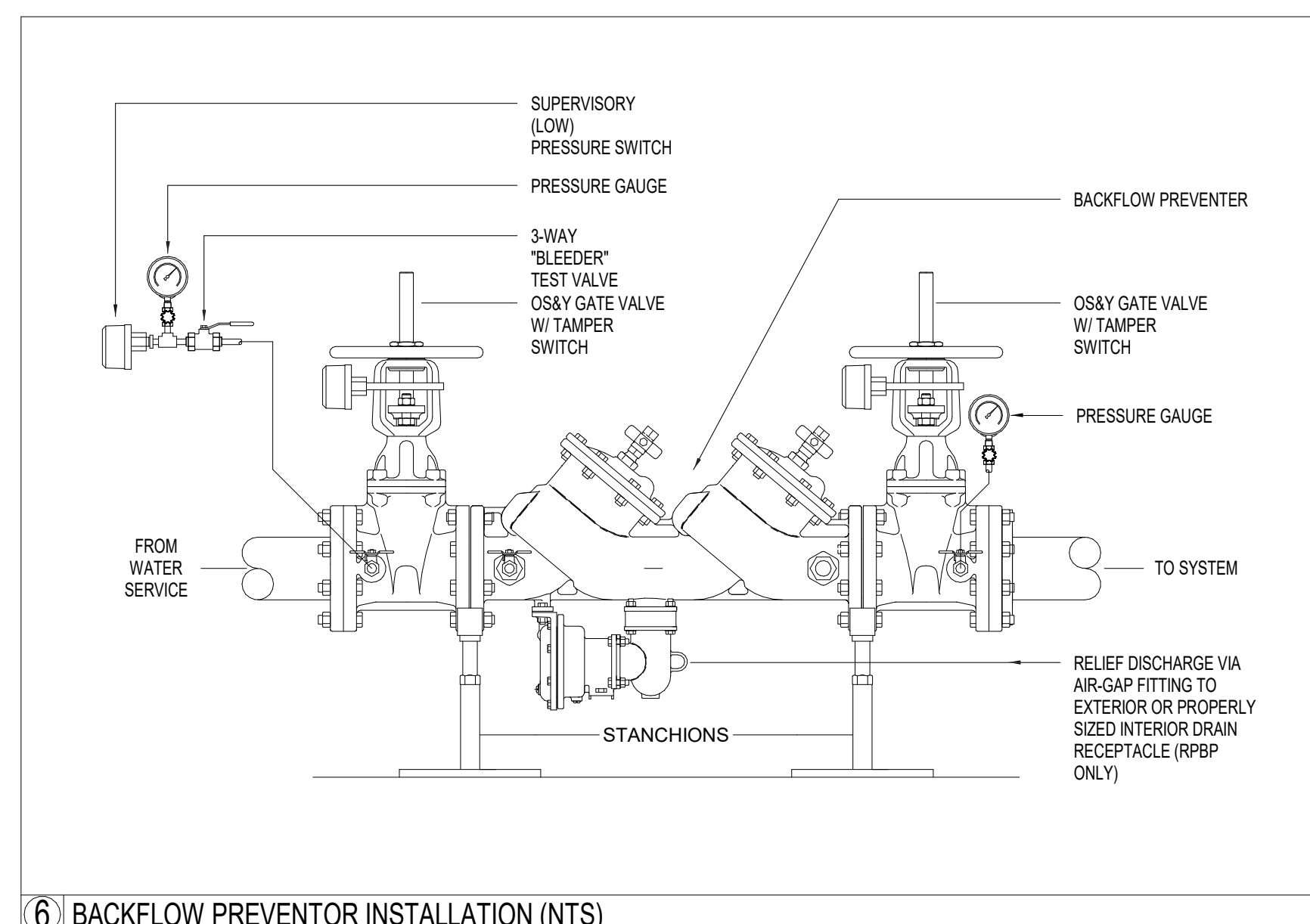
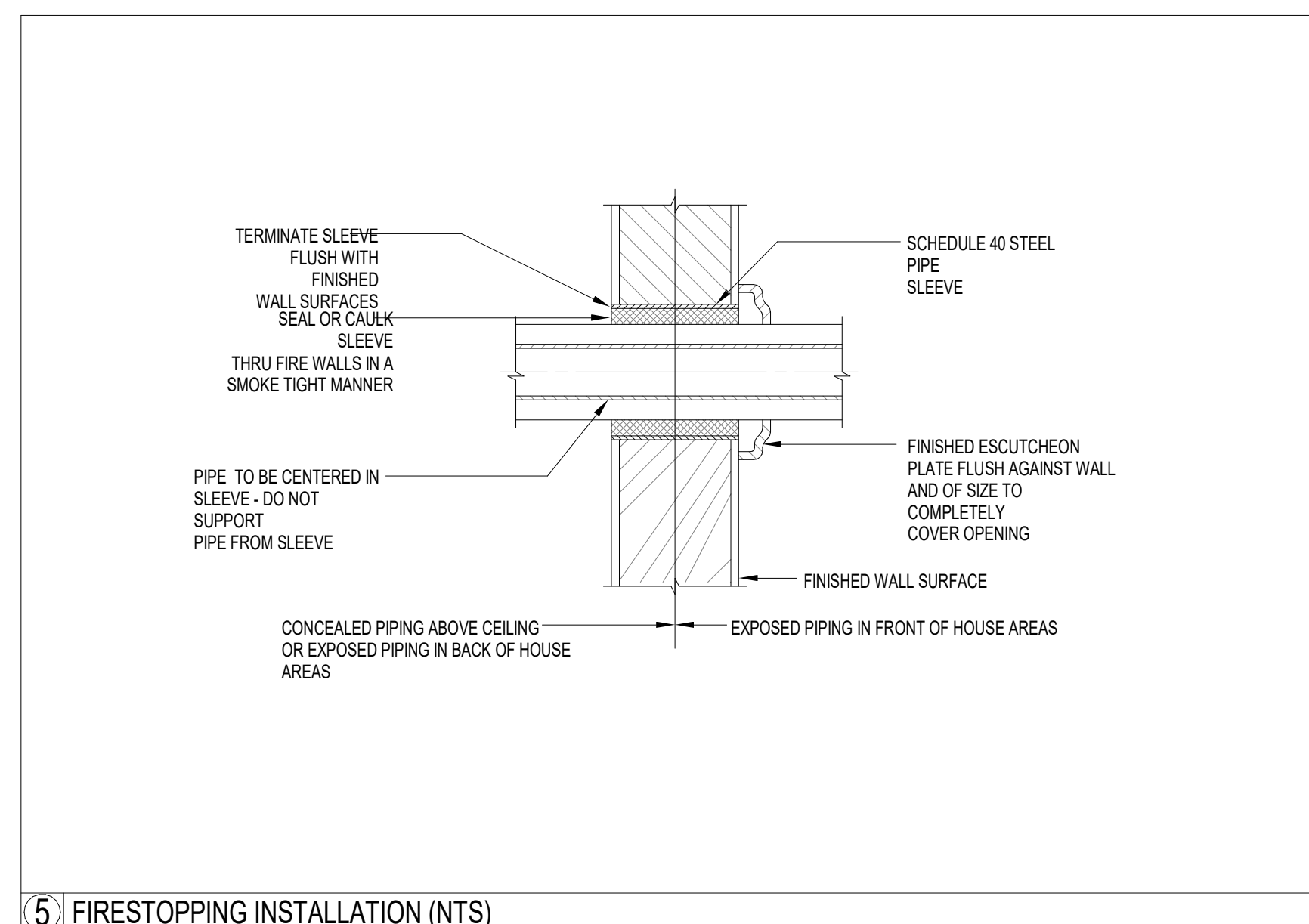
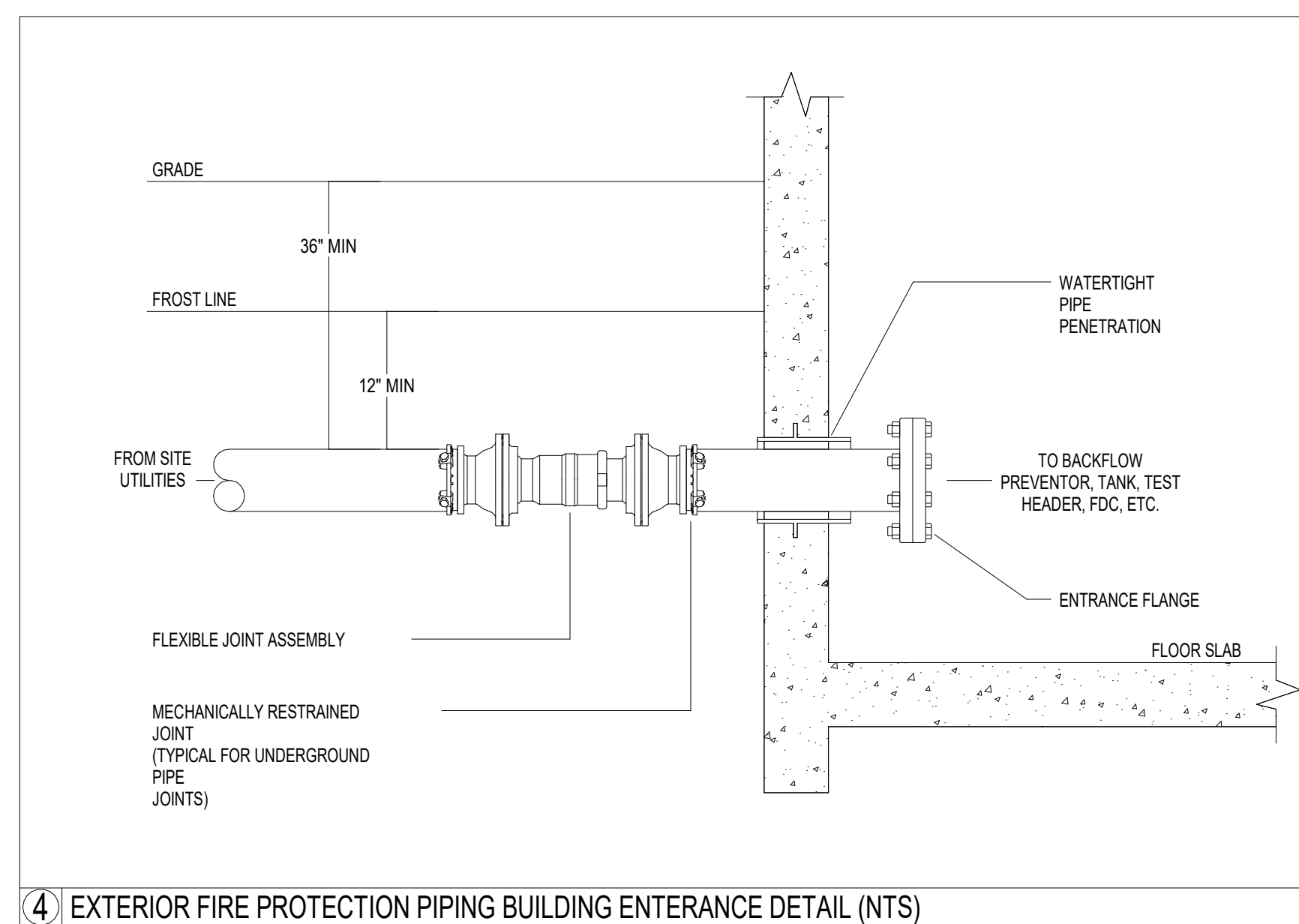
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FIRE PUMP ROOM -
ENLARGED PLAN &
SECTIONS

FP4.01

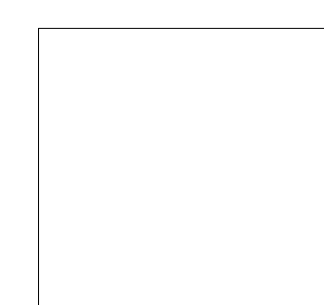


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FIRE PROTECTION DETAILS

FP7.01