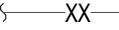










FLOOR PLAN SYMBOLS	
SYMBOL	DESCRIPTION
PIPING ANNOTATION	
	SYSTEM DESIGNATION
	HYDRAULIC REFERENCE POINT (NODE)
	HYDRAULIC CALCULATION AREA
MISCELLANEOUS	
	NON-SPRINKLERED AREA
	KEYNOTE
	X = SYSTEM TYPE Y = REVEN NUMBER DWG = DRAWING NUMBER
SPRINKLERS	
	PENDENT FRAME SPRINKLER
	UPRIGHT FRAME SPRINKLER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

ABBREVIATIONS	
GENERAL	
AV	AUDIOVISUAL
ACT	AUTOCLIMATING
AFE	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AU	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
LTV	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 DRAIN
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	THRE PUMP TEST HEADER
WT	WET PIPE
WFM	WET-PIPE FEED MAN
WSP	WET-PIPE SPRINKLER
EQUIPMENT	
ARV	AR RELEASE VALVE
BFP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
CKV	CHECK VALVE
DVA	DOUBLE CHECK VALVE ASSEMBLY
DNV	DRAIN VALVE
FHV	FIRE HOSE VALVE
FMU	FLOW METER
FRP#	FIRE PUMP
FRP#B	FIRE PUMP CONTROLLER
MDV	MAIN DRAIN VALVE
OSV	OS&Y CHECK VALVE
PS	PRESSURE GAUGE
PM#	PRESSURE MAINTENANCE PUMP
PMP#P	PUMP
PREV	CONTROLLER
PRV	PRESSURE RELIEF VALVE
PS	PRESSURE REGULATING VALVE
PRV	PRESSURE RELIEF VALVE
TS	TEST & DRAIN VALVE
TS	TEST HEAD
TSB	TAMPER SWITCH
ZCA	ZONE CONTROL ASSEMBLY

[illegible]

DOCUMENT AND SUBMITTAL REQUIREMENTS

THE FIRE PROTECTION ENGINEERING DRAWINGS ARE "PRELIMINARY PLANS" AS DEFINED BY NFPA. THE HAVE BEEN PREPARED FOR SUBMISSION TO THE AUTHORIZING AGENCY IN ORDER TO OBTAIN A BUILDING PERMIT AND AS THE BASIS OF DESIGN FOR THE PREPARATION OF THE WORKMANSHIP DRAWINGS. THE DRAWINGS ARE NOT A REPRESENTATION OF HAZARDS TO BE PROTECTED, THE SYSTEM DESIGN CONCEPT, DESIGN CRITERIA AND WATER SUPPLY CONDITIONS. THESE DRAWINGS ARE NOT TO BE USED FOR SPECIFICATIONS AND ARRANGEMENTS OF MAJOR COMPONENTS INCLUDING BUT NOT LIMITED TO RISERS, VALVES, PIPING, AND EQUIPMENT. THEY ARE NOT INTENDED TO BE USED FOR INSTALLATION OR TO OBTAIN INSTALLATION PERMITS.

2. THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TO THE CITY ENGINEER, JERSEY AND THE PROJECT ARCHITECT, A COMPLETE SUBMITTAL PACKAGE INCLUSIVE OF PRODUCT DATA SHEETS, WORKING DRAWINGS, AND CALCULATIONS. THE SUBMITTAL PACKAGE SHALL INCLUDE THE INFORMATION REQUIRED BY THE TECHNICAL SPECIFICATIONS AND THE APPLICABLE NFPA STANDARDS INDICATED ON THE DRAWINGS.

3. THE WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED UNDER THE SUPERVISION OF A QUALIFIED EXPERIENCED TECHNICIAN OR PROFESSIONAL ENGINEER. THE WORKING PLANS SHALL BE REVIEWED BY THE TECHNICIAN OR ENGINEER AND A COMPLETE CERTIFICATION OR REGISTRATION NUMBER, WHERE THE LOCAL JURISDICTION REQUIRES THE SAME, SHALL BE PROVIDED. WHEN REVIEWED BY A PROFESSIONAL ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER TO SIGN THE WORKING PLANS.

4. THE CONTRACTOR SHALL PREPARE AND SUBMIT ALL ADDITIONAL FORMS AND DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION TO BE RESPONSIBLE FOR THE FEES ASSOCIATED WITH INSTALLATION PERMIT APPLICATION.

5. CHANGES IN THE LOCATION OF SYSTEM COMPONENTS INCLUDING BUT NOT LIMITED TO SPRINKLERS AND VALVES) FROM THOSE INDICATED ON THE PRELIMINARY SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CHANGES MADE BY THE CONTRACTOR TO THE AUTHORITY HAVING JURISDICTION AND JENSEN HUGHES PRIOR TO INSTALLATION, ALL CHANGES FROM THE APPROVED SHOP DRAWINGS WILL BE APPLIED IN A MANNER THAT DOES NOT VIOLATE ANY CITY ORDINANCES OR ADDITIONAL COMPONENTS REQUIRED FOR A FULL COMPLIANT INSTALLATION. ADDITIONAL SPRINKLERS REQUIRED 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 ENGINEER, JERSEY AND THE PROJECT ARCHITECT, PRIOR TO THE BUILDING DURING CONSTRUCTION SUCH AS NEW LIGHTS, DOWNSPALLS, ETC. AND LOCATIONS OF NEW LIGHTS AND DOWNSPALLS AS REQUIRED THROUGHOUT 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" SEAL AND SIGNATURE OF THE CONTRACTOR, DATED AND ASSOCIATED 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. OPERATE AND MAINTENANCE MANUALS.

FIRE PROTECTION SYSTEM INSTALLATION REQUIREMENTS

#	GENERAL
1.	COORDINATE INSTALLATION ACTIVITIES WITH OTHER DIVISIONS OF WORK AND EXISTING CONDITIONS. MAKE REASONABLE AND NECESSARY REVISIONS TO THE INSTALLATION REQUIREMENTS TO AVOID CONFLICTS WITH OTHER DIVISIONS OF WORK AND IN ORDER TO MAINTAIN THE LOWEST POSSIBLE COST OF THE PROJECT. TESTING AND MAINTENANCE FOR ALL BUILDING SYSTEMS AND CODE MINIMUM HEADROOM.
2.	ALL COMPONENTS SHALL BE NEW UNLESS OTHERWISE NOTED AND BE COMPLIANT WITH APPROVAL.
3.	INSTALL SYSTEMS IN AN EFFICIENT AND RECTILINEAR ARRANGEMENT WITH COMPONENTS PERPENDICULAR AND PARALLEL TO BUILDING WALLS, CEILINGS, STRUCTURE AND SIMILAR ELEMENTS UNLESS OTHERWISE INDICATED. CEILING SPRINKLER SYSTEM COMPONENTS SHALL BE INSTALLED CONCEALED ABOVE FINISHED CEILING.
4.	ALL CONTROL / TEST / DRAM VALVES SHALL BE INSTALLED WITH INDICATORS VISIBLE FROM THE FLOOR BELOW AND SUCH THAT THEY ARE EASILY ACCESSIBLE FOR VISUAL INSPECTION, TESTING AND MAINTENANCE. ALL VALVES SHALL BE INSTALLED SUCH THAT THEY ARE ACCESSIBLE FROM THE SECOND FLOOR OR AT A LOCATION ACCESSIBLE FROM AN M-BT LADDER.
5.	IDENTIFICATION INCLUDING BUT NOT LIMITED TO VALVE TAGS, GENERAL INFORMATION SIGNS AND HYDRAULIC SIGNS SHALL BE PROVIDED AS REQUIRED BY THE APPLICATION. THE FIRE DEPARTMENT AT THE PROJECT DEPARTMENT AT ALL CONTROL / TEST / DRAM VALVES, RISERS AND EQUIPMENT A RIGID PLASTIC SIGN INDICATING THE LOCATION OF ALL VALVES. THE AREA PROTECTED BY EACH CONTROL VALVE SHALL BE SHOWN AND PROVIDED AND INSTALLED AT THE MAIN SYSTEM RISERS).
6.	ARRANGE PIPING TO DRAIN BACK TO MAIN DRAIN VALVES FOR EACH SYSTEM. PIPING SHALL BE INSTALLED TO MINIMIZE THE REQUIREMENT FOR DRAINING DRAINS. WHEN DRAINING DRAINS ARE REQUIRED FOR TRAPPED SECTIONS OF PIPING THEY SHALL BE INSTALLED IN LOCATIONS APPROVED BY THE OWNER.
7.	PROTECT SLEEVES, SLEEVES SLASH, ETC. (SOUNDING AND LISTED) DRIPPING PROTECT AT ALL FLOOR WALL PENETRATIONS AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.
8.	PIPING SHALL BE SUPPORTED VIA LISTED HANGERS AND SUPPORTS ATTACHED DIRECTLY TO BUILDING STRUCTURE. CONNECTIONS SHALL NOT BE MADE TO METAL, RIGID POLYETHYLENE, NON-DIVISION 2 HATCH OR NON-BUILDING STRUCTURAL ELEMENTS.
9.	THREADED HANGER RODS SHALL NOT BE FORMED OR BENT. CONTRACTOR SHALL REPLACE ANY EXISTING / NEW BENT ROD WITHIN THE AREA OF WORK WITHIN.
	AUTOMATIC SPRINKLER SYSTEM
10.	CONCRETE FITTINGS SHALL BE UTILIZED FOR PIPING SUE. HANGERS AND SPRINKLER COUPLERS SHALL BE PROHIBITED.
11.	COORDINATE SPRINKLER TEMPERATURE RATINGS BASED UPON ANTICIPATED AMBIENT TEMPERATURE, SOURCES OF HEAT OR SPECIFIC LOCATIONS AS REQUIRED BY THE APPLICATION. (NPA 131) UNLESS OTHERWISE NOTED OR REQUIRED SPRINKLERS SHALL BE ORDINARY TEMPERATURE RATED.
12.	PROVIDE LISTED GASKETS ON SPRINKLERS IN LOCATIONS PRONE TO DAMAGED SUCH AS MECHANICAL ROOM, STORAGE ROOMS. SPRINKLERS INSTALLED LESS THAN 7 FT AFF AND SIMILAR AREAS.
13.	PROVIDE A CABINET WITH SPARE SPRINKLERS AND A LIST OF SPARE SPRINKLERS AS REQUIRED BY NPA 131.
14.	PROVIDE SPRINKLER PROTECTION ABOVE AND BELOW WOOD CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
	STANDPIPE SYSTEM
15.	PROVIDE DRAIN VALVES AT THE BASE OF EACH STANDPIPE AND DRAIN EGDS.
16.	PROVIDE AIR RELIEF 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	STANDPIPE 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.

[illegible]

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)
AWAITING, 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	FDY 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*

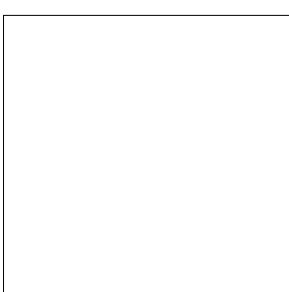
* STANDPIPE SYSTEM DESIGN FOR TOWER C IS 750 GPM, TOWERS A & B IS 1,000 GPM.
 ** REFER TO FPR 01 FOR HYDRAULIC CALCULATION NOTES.

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159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

Olson Kundig

project: **SOMMET BLANC - AB**



White Summit Development, LLC
PO Box 980022
Park City, Utah 84098

Acoustic Consultant
BRC Acoustics
1932 1st Ave, Suite
Seattle, WA 98101

Pool Consultant
Cloward H2O
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 10
Midvale, Utah 84047

Specifications Writer
Friday Group
 88 Mainelli Road
 Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consultant
Lerch Bates
19515 North Creek Parkway, Suite 300
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O.
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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

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

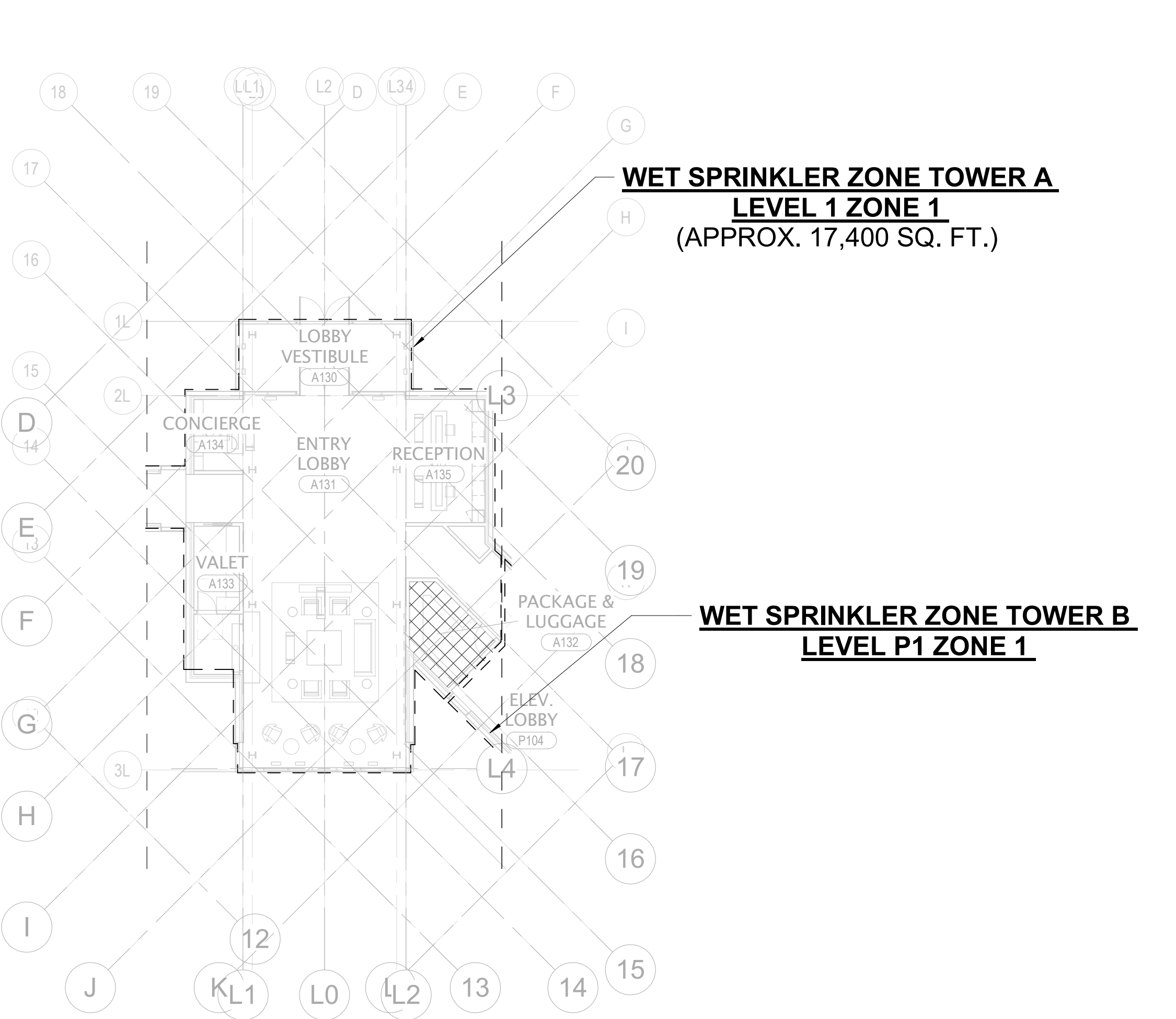
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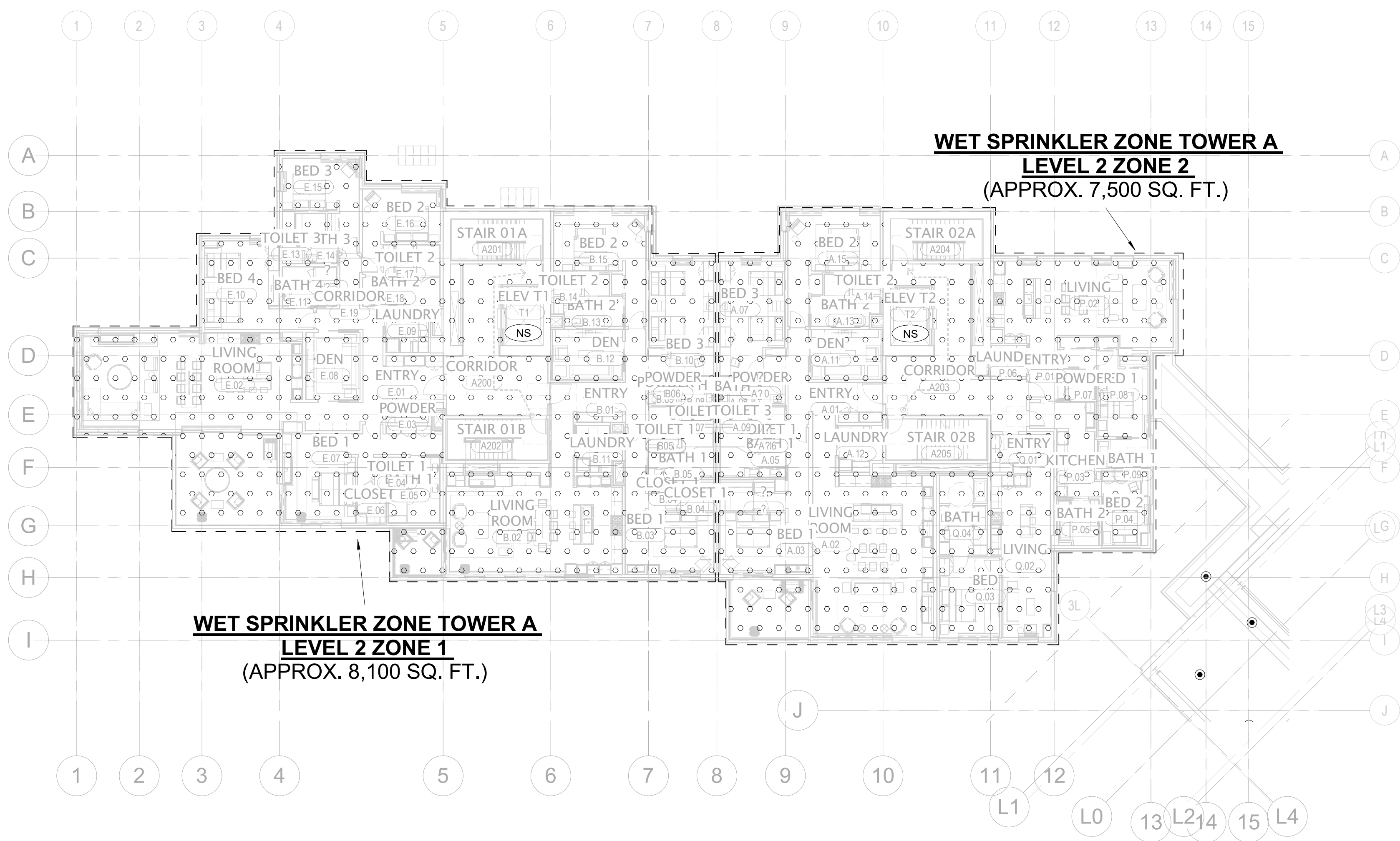
CONSTRUCTION
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FIRE PROTECTION NOTES, LEGEND AND DESIGN CRITERIA

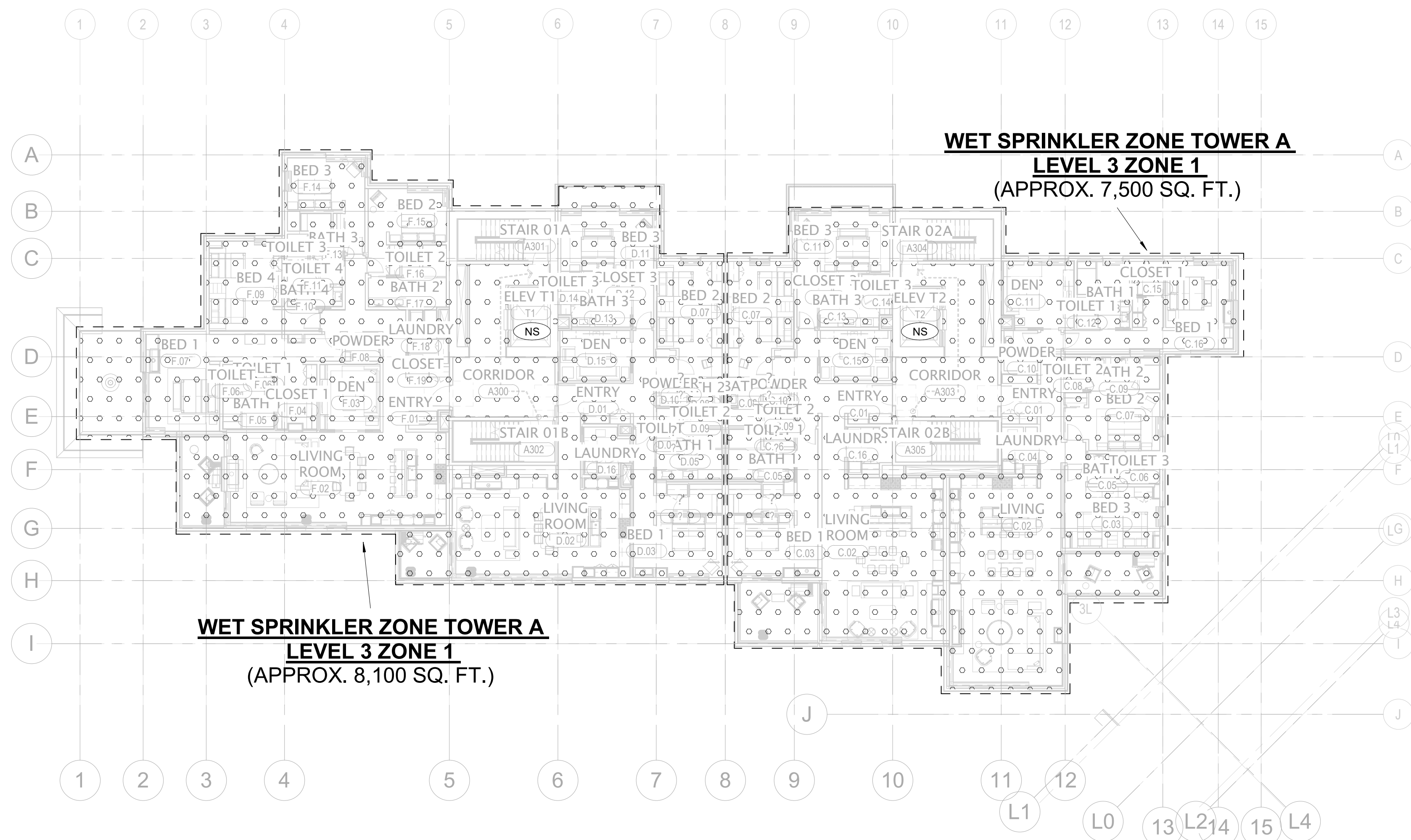
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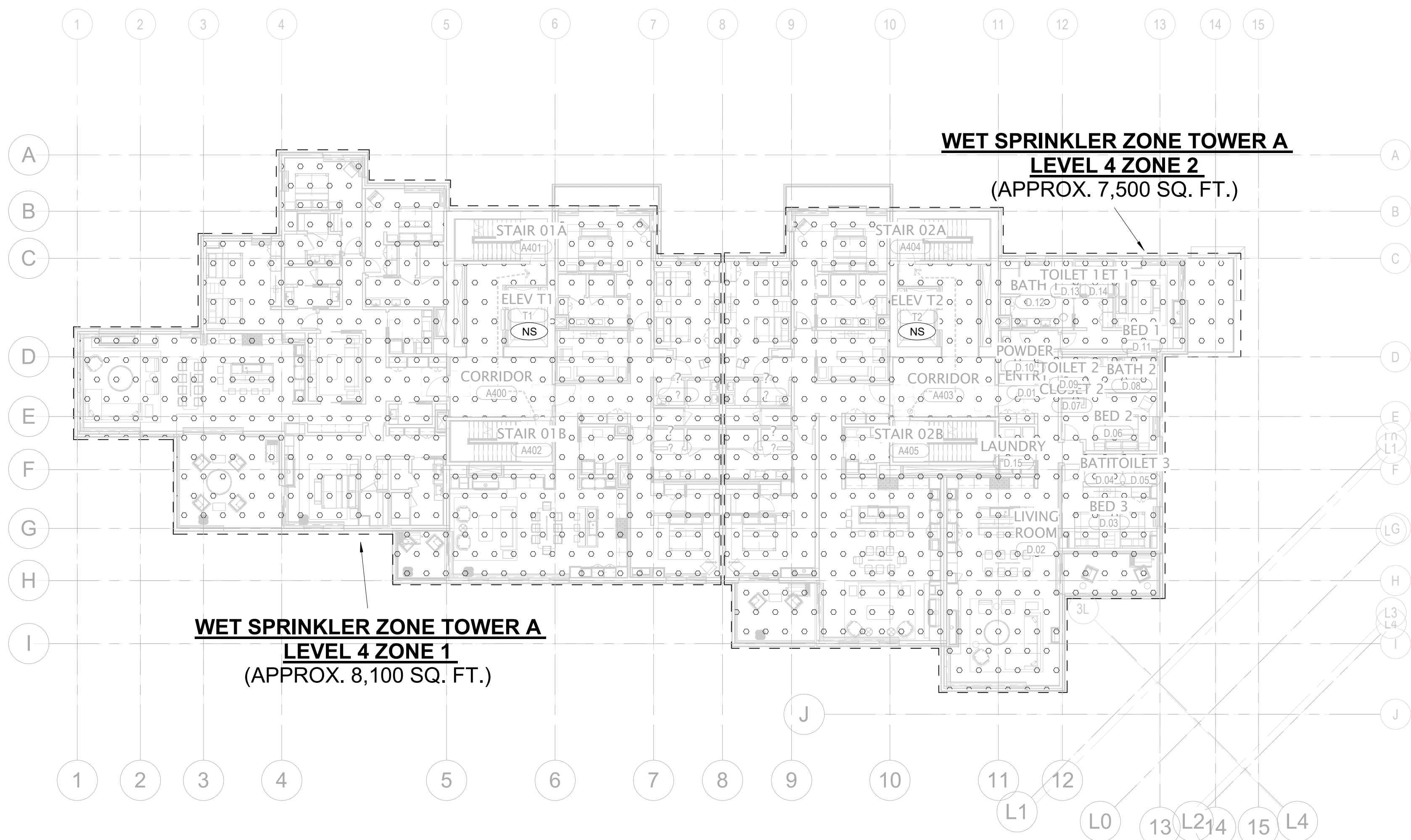
1 TOWER AB LOBBY - LEVEL 1 - ZONING PLAN
1/16" = 1'-0"



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



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



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

FIRE PROTECTION DESIGN HATCH LEGEND

LH	LIGHT HAZARD, SYSTEM PROVIDING A DENSITY OF .10 GPM/SQFT. OVER DESIGN AREA OF 1,500 SQ. FT. WITH 100 GPM HOSE ALLOWANCE
RES	RESIDENTIAL HAZARD, SYSTEM PROVIDING A DENSITY OF .10 GPM/SQFT. OVER DESIGN AREA OF 4 SPRINKLERS WITH 100 GPM HOSE ALLOWANCE
OH1	ORDINARY HAZARD GROUP 1, SYSTEM PROVIDING A DENSITY OF .15 GPM/SQFT. 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/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

Reserved for permit stamp

100 South Jackson Street, Suite 600
Seattle, Washington 98104 USA
+1 206 834 3877 olsonkundig.com

Olson Kundig

project
SOMMET BLANC - AB
DEER VALLEY, UTAH

White Summit Development, LLC
PO Box 980022
Park City, Utah 84098

Acoustic Consultant

BRC Acoustics

1932 1st Ave, Suite 620
Seattle, WA 98101

Pool Consultant

Cloward H2O

2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect

EPG Design

6948 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer

Friday Group

86 Mainell Road
Middletown, VT

Code Consultant

Holmes

600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer

Jensen Hughes

One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consultant

Larch Bates

19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer

Magnusson Klemencic Associates

1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer

Ox

1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant

RDH

2101 N 34th St
Seattle, WA 98103

Accessibility Consultant

Studio Pacifica

2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer

WSP USA

1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect

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drawn by

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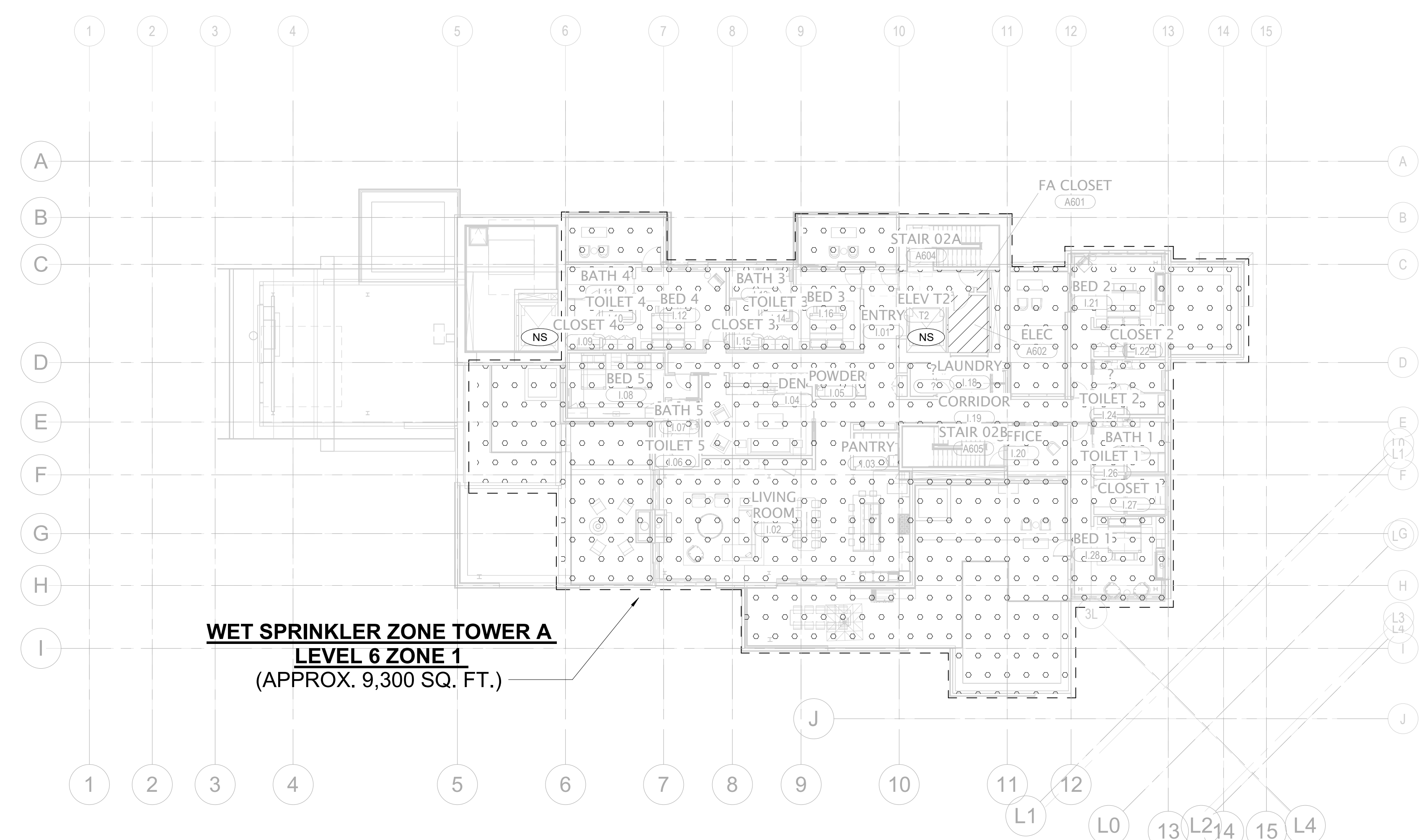
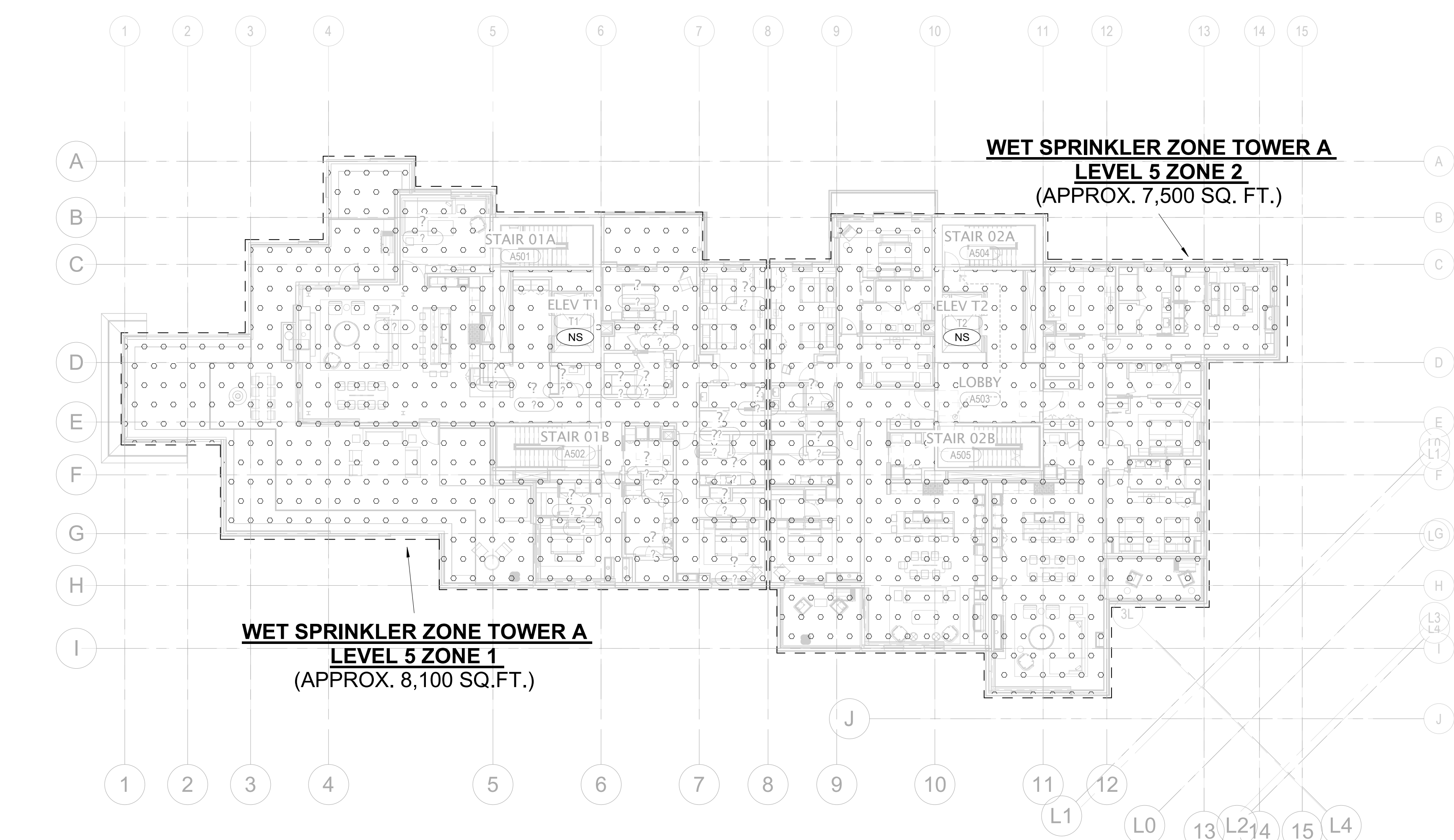
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





11/18/2022

FIRE PROTECTION - TOWER A - ZONING PLANS

FP1.02



FIRE PROTECTION DESIGN HATCH LEGEND

	LIGHT HAZARD: SYSTEM PROVIDING A DENSITY OF .10 GPMSQ/FT. OVER DESIGN AREA OF 1,000 SQ. FT. WITH 100 GPM HOSE ALLOWANCE
	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 .15 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

