FLOOR PLAN SYMBOLS			
SYMBOL	DESCRIPTION		
PIPING ANNOTATION			
├ ──XX───	SYSTEM DESIGNATION		
(xxx)	HYDRAULIC REFERENCE POINT (NODE)		
	HYDRAULIC CALCULATION AREA		
MISCELLANEOUS			
NS	NON-SPRINKLERED AREA		
X	KEYNOTE		
X-Y DWG	X = SYSTEM TYPE Y = RISER NUMBER DWG = DRAWING NUMBER		
SPRINKLERS			
•	PENDENT FRAME SPRINKLER		
0	UPRIGHT FRAME SPRINKLER		
∇	SIDEWALL FRAME SPRINKLER		

GENERAL
AV AUDIO/VISUAL ACT ACOUSTIC CEILING TILE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION ARCH ARCHITECT BOP BOTTOM OF PIPE BOR BOTTOM OF RISER CL CENTERLINE 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 INV INVERT LTG LIGHTING LV LOW VOLTAGE (AUDIO/VISUAL, SECURITY, MAX TEL/DATA) MECH MAXIMUM MEP MECHANICAL MIN MECH, ELEC, PLBG, FP, FA, LV, ETC. N/A MINIMUM NAS NOT APPLICABLE NC NO AUTOMATIC SPRINKLER NIC NORMALLY CLOSED NTS NOT IN CONTRACT OED NOT TO SCALE PLBG OPEN END DRAIN SQFT PLUMBING TEMPERATURE TYP TOP OF RISER
W/ TYPICAL WITH

OVVOI	CTANDDIDE
FDC	STANDPIPE FIRE DEPARTMENT CONNECTION
SD	SPRINKLER DRAIN
TH	FIRE PUMP TEST HEADER
WST	WET-PIPE STANDPIPE
WFM	WET-PIPE STANDPIPE WET-PIPE FEED MAN
WSP	WET-PIPE FEED MAN WET-PIPE SPRINKLER
WSP	EQUIPMENT
A DV	
ARV	AIR RELEASE VALVE
BFP	BACKFLOW PREVENTOR
BV	BUTTERFLY VALVE
CKV	CHECK VALVE
DCVA DV	DOUBLE CHECK VALVE ASSEMBLY DRAIN VALVE
	FIRE HOSE VALVE
FHV	FIRE HOSE VALVE FLOW METER
FM	1
FPU-#	FIRE PUMP FIRE PUMP CONTROLLER
FPC-#	MAIN DRAIN VALVE
MDV	OS&Y GATE VALVE
OSY	PRESSURE GAUGE
PG	
PMP-#	PRESSURE MAINTENANCE PUMP
PMPC-# PREV	PRESSURE MAINTENANCE PUMP CONTROLLER
PREV PRV	PRESSURE RELIEF VALVE
PS	PRESSURE REGULATING VALVE
TDV	PRESSURE SWITCH
TH	TEST & DRAIN VALVE
TS	TEST & DRAIN VALVE
ZCA	TAMPER SWITCH
	ZONE CONTROL ASSEMBLY
	ZOINE GOINTROL AGGEWIDET
*NOT ALL ABBREVIA	TIONS USED FOR THIS PROJECT.
- · · · · · · · · · · · · · ·	

GENERAL REQUIREMENTS THE FIRE PROTECTION ENGINEERING DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE ABSOLUTELY PRECISE NOR INDICATE

EVERY REQUIRED SYSTEM COMPONENT. THEY REPRESENT A SYSTEM CONCEPT AND INDICATE THE MAIN SYSTEM COMPONENTS. PRIOR TO SUBMITTING THE BID THE INSTALLING CONTRACTOR OF THE WORK INDICATED ON THE FIRE PROTECTION ENGINEERING DRAWINGS AND ASSOCIATED TECHNICAL SPECIFICATIONS (REFERRED TO AS "THE CONTRACTOR" HEREAFTER) SHALL VISIT AND CAREFULLY EXAMINE THE SITE WITH THE ENGINEERING DRAWINGS TO REVIEW EXISTING CONDITIONS AND IDENTIFY DIFFICULTIES THAT MAY AFFECT THE SCOPE OF WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR ADDITIONAL SCOPE CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE READILY VISIBLE OR CONSTRUED BY AN EXPERIENCED OBSERVER.

THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL SYSTEM COMPONENTS, WALL LOCATIONS AND DIMENSIONS AND CEILING HEIGHTS AND COORDINATE WITH THE FIRE PROTECTION SYSTEM TECHNICIAN PRIOR TO PREPARATION OF THE WORKING PLANS / SHOP DRAWINGS. REFER TO DOCUMENT AND SUBMITTAL REQUIREMENTS ON THIS DRAWING FOR ADDITIONAL INFORMATION.

APPLICABLE DOCUMENTS BEYOND THE ENGINEERING DRAWINGS: A. CODES AND INSTALLATION STANDARDS INDICATED ON THIS ARCHITECTURAL, MEP AND FIRE ALARM DRAWINGS. PROJECT MANUAL (TECHNICAL SPECIFICATIONS).

PRODUCT MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL WORK AND EQUIPMENT ASSOCIATED WITH THIS PROJECT FOR ONE (1) YEAR AFTER INSTALLATION. REFER TO THE TECHNICAL SPECIFICATION FOR ADDITIONAL WARRANTY REQUIREMENTS.

FIRE PROTECTION HYDRAULIC CALCULATIONS.

SCOPE OF WORK THE SCOPE OF WORK (REFERRED TO AS "THE WORK" HEREAFTER)

CLASS I AUTOMATIC STANDPIPE SYSTEM AND ELECTRIC-DRIVE FIRE PUMP SYSTEM AS INDICATED ON THE DRAWINGS. THE WORK INCLUDES FURNISHING AND INSTALLING ALL SPRINKLERS, PIPING, FITTINGS, HANGERS, VALVES AND OTHER ASSOCIATED COMPONENTS IN AREAS OF THE BUILDING REPRESENTED ON THE ENGINEERING DRAWINGS TO MAKE THE SYSTEMS FULLY COMPLETE AND

INCLUDES THE INSTALLATION OF AN AUTOMATIC SPRINKLER SYSTEM,

THE WORK INCLUDES FIRESTOPPING OF ALL PENETRATIONS THROUGH FIRE-RESISTANCE RATED BARRIERS.

4. THE WORK INCLUDES PREPARATION AND SUBMITTAL DOCUMENTS & SUBMITTALS INDICATED ON THIS DRAWING.

THE WORK INCLUDES PERFORMING FIELD QUALITY CONTROL AND COMMISSIONING ACTIVITIES OUTLINED IN NFPA 25. THE WORK INCLUDES TRAINING OWNER'S PERSONNEL ON THE OPERATION OF THE SYSTEM, REQUIRED MAINTENANCE TASKS AND

FREQUENCIES, AND THE LOCATIONS OF ALL SPARE TOOLS AND

CONSTRUCTION. EQUIPMENT, VALVES, ALARM AND SUPERVISORY SWITCHES, RISERS AND APPLICABLE SYSTEMS ACCEPTANCE DOCUMENTATION REQUIRED EQUIPMENT NECESSARY TO MAINTAIN AND OPERATE THE SPRINKLER BY THE APPLICABLE NFPA STANDARDS. COMPLETE PRODUCT DATA SUBMITTAL PACKAGE INCLUSIVE OF ALL INSTALLED MATERIALS. D. OPERATION AND MAINTENANCE MANUALS.

> FIRE PROTECTION SYSTEM DESIGN REQUIREMENTS FIRE PROTECTION SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS OF:

& ARRANGEMENTS OF MAJOR COMPONENTS INCLUDING BUT NOT LIMITED TO MAINS, RISERS, VALVES AND CONNECTIONS. THEY ARE NOT

INTENDED TO BE USED FOR INSTALLATION OR TO OBTAIN INSTALLATION

THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TO THE

SUBMITTAL PACKAGE INCLUSIVE OF PRODUCT DATA SHEETS, WORKING

SUBMITTAL PACKAGE SHALL INCLUDE ALL INFORMATION REQUIRED BY

AUTHORITY HAVING JURISDICTION AND THE ENGINEER A COMPLETE

PLANS / SHOP DRAWINGS AND HYDRAULIC CALCULATIONS. THE

THE TECHNICAL SPECIFICATIONS AND THE APPLICABLE NFPA

THE WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE

INDICATE THE TECHNICIAN'S OR ENGINEER'S NAME AND THEIR

CERTIFICATION OR REGISTRATION NUMBER. WHERE THE LOCAL

RESPONSIBLE FOR RETAINING THE SERVICES OF A THIRD PARTY

BY A PROFESSIONAL ENGINEER THE CONTRACTOR SHALL BE

PROFESSIONAL ENGINEER TO SIGN AND SEAL THE PACKAGE.

AND DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING

PREPARED UNDER THE SUPERVISION OF A QUALIFIED ENGINEERING

TECHNICIAN OR PROFESSIONAL ENGINEER. THE WORKING PLANS SHALL

AUTHORITY REQUIRES THE WORKING PLANS TO BE SIGNED AND SEALED

THE CONTRACTOR SHALL PREPARE AND SUBMIT ALL ADDITIONAL FORMS

JURISDICTION AND BE RESPONSIBLE FOR FEES ASSOCIATED WITH

CHANGES IN THE LOCATION OF SYSTEM COMPONENTS (INCLUDING BUT

NOT LIMITED TO SPRINKLERS AND VALVES) FROM THOSE INDICATED ON

THE APPROVED SHOP DRAWING SHALL BE IDENTIFIED IN WRITING TO

THE AUTHORITY HAVING JURISDICTION AND JENSEN HUGHES PRIOR TO

INSTALLATION. ALL CHANGES FROM THE APPROVED SHOP DRAWINGS

SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY

RELOCATIONS OR ADDITIONAL COMPONENTS REQUIRED FOR A FULL

CODE COMPLIANT INSTALLATION (I.E. ADDITIONAL SPRINKLERS) AS A

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH

ANY NEW SITE SPECIFIC MODIFICATIONS THAT MAY BE MADE TO THE

CEILINGS, ETC. AND UPDATING THE WORKING PLANS AS REQUIRED

THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL THE

A. A COMPLETE RECORD DRAWING PACKAGE BEARING "RECORD

DRAWING", "AS-BUILT DRAWING" OR SIMILAR AND THE ASSOCIATED

DATE OF CREATION. THE RECORD DRAWING PACKAGE SHALL

INCLUDE SITE SPECIFIC MODIFICATIONS RECORDED DURING

BUILDING DURING CONSTRUCTION SUCH AS NEW LIGHTS, DROP

THROUGHOUT THE DURATION OF CONSTRUCTION.

FOLLOWING CLOSEOUT DOCUMENTATION:

RESULT OF THE CHANGES SHALL BE FURNISHED AND INSTALLED AT THE

STANDARDS INDICATED ON THIS DRAWING.

INSTALLATION PERMIT APPLICATION.

EXPENSE OF THE CONTRACTOR.

A. 2018 UTAH BUILDING CODE (AMENDED 2018 IBC) 2018 UTAH FIRE CODE (AMENDED 2018 IFC) 2016 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER

D. 2016 NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE STYSTEMS

E. 2016 NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION F. 2016 NFPA 22, STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION G. MANUFACTURER'S PUBLISHED DOCUMENTATION AT THE

COMMENCEMENT OF FSYSTEM INSTALLATION. NEW SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED AND SIZED IN ACCORDANCE WITH THE DESIGN CRITERIA INDICATED ON THIS DRAWING AND THE REQUIREMENTS OF NFPA 13 & NFPA 14 WITH A MINIMUM SAFETY MARGIN OF 10 PSI. PIPE SIZES SHALL BE NO SMALLER THAN AS INDICATED BY THE DESIGN HYDRAULIC CALCULATIONS AND DESIGN DRAWINGS UNLESS VERIFIED THROUGH APPROVED

CALCULATION SUBMITTAL.

DOCUMENT AND SUBMITTAL REQUIREMENTS FIRE PROTECTION SYSTEM INSTALLATION REQUIREMENTS THE FIRE PROTECTION ENGINEERING DRAWINGS ARE "PRELIMINARY PLANS" AS DEFINED BY NFPA. THE HAVE BEEN PREPARED FOR COORDINATE INSTALLATION ACTIVITIES WITH OTHER DIVISIONS OF SUBMISSION TO THE AUTHORITY HAVING JURISDICTION IN ORDER TO WORK AND EXISTING CONDITIONS. MAKE REASONABLE AND NECESSARY OBTAIN A BUILDING PERMIT AND AS THE BASIS OF DESIGN FOR THE MODIFICATIONS IN SYSTEM INSTALLATION REQUIRED TO PREVENT PREPARATION OF THE WORKING PLANS / SHOP DRAWINGS. THEY CONFLICTS WITH OTHER DIVISIONS OF WORK AND IN ORDER TO INCLUDE A REPRESENTATION OF HAZARDS TO BE PROTECTED, THE MAINTAIN ALL CODE REQUIRED CLEARANCES FOR INSPECTION, TESTING SYSTEM DESIGN CONCEPT, DESIGN CRITERIA AND WATER SUPPLY AND MAINTENANCE FOR ALL BUILDING SYSTEMS AND CODE MINIMUM CONFIGURATION. THESE DRAWINGS INCLUDE CONCEPTUAL LOCATIONS

> ALL COMPONENTS SHALL BE NEW UNLESS OTHERWISE NOTED AND BE UL LISTED AND FM APPROVED.

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 MOUNTED SYSTEM COMPONENTS SHALL BE INSTALLED CONCEALED ABOVE FINISHED CEILINGS.

. ALL CONTROL / TEST / DRAIN VALVES SHALL BE INSTALLED WITH INDICATORS VISIBLE FROM THE FLOOR BELOW AND SUCH THAT THEY ARE READILY ACCESSIBLE AND VISIBLE FOR ROUTINE INSPECTION, TESTING AND MAINTENANCE. ALL VALVES SHALL BE INSTALLED SUCH THAT THEY ARE ACCESSIBLE EITHER FROM FLOOR LEVEL OR AT A LOCATION ACCESSIBLE FROM AN 8-FT LADDER. IDENTIFICATION (INCLUDING BUT NOT LIMITED TO VALVE TAGS, GENERAL

INFORMATION SIGNS AND HYDRAULIC SIGNS) SHALL BE PROVIDED AS

FOR AUXILIARY DRAINS. WHERE AUXILIARY DRAINS ARE REQUIRED FOR

TRAPPED SECTIONS OF PIPING THEY SHALL BE INSTALLED IN

REQUIRED BY THE APPLICABLE NFPA STANDARDS AND LOCAL FIRE DEPARTMENT AT ALL CONTROL / TEST / DRAIN VALVES, RISERS AND EQUIPMENT. A RIGID PLASTIC SIGN INDICATING THE LOCATION OF ALL VALVES, THE AREA PROTECTED BY EACH CONTROL VALVE SHALL BE SHALL BE PROVIDED AND INSTALLED AT THE MAIN SYSTEM RISER(S). ARRANGE PIPING TO DRAIN BACK TO MAIN DRAIN VALVES FOR EACH SYSTEM. PIPING SHALL BE INSTALLED TO MINIMIZE THE REQUIREMENT

LOCATIONS APPROVED BY THE OWNER. PROVIDE SLEEVES, SLEEVES SEALS, ESCUTCHEONS AND LISTED FIRESTOPPING SYSTEMS AT ALL FLOOR / WALL PENETRATIONS AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.

PIPING SHALL BE SUPPORTED VIA LISTED HANGERS AND SUPPORTS ATTACHED DIRECTLY TO BUILDING STRUCTURE. ATTACHMENT SHALL NOT BE MADE TO METAL ROOF DECKING, NON-DIVISION 21 WORK OR NON-BUILDING STRUCTURAL ELEMENTS.

THREADED HANGER RODS SHALL NOT BE FORMED OR BENT. CONTRACTOR SHALL REPLACE ANY EXISTING / NEW BENT ROD WITHIN THE AREA OF WORK WITH NEW. AUTOMATIC SPRINKLER SYSTEM

CONCENTRIC FITTINGS SHALL BE UTILIZED FOR PIPING SIZE

TRANSITIONS AND SPRINKLER CONNECTIONS. BUSHINGS ARE COORDINATE SPRINKLER TEMPERATURE RATINGS BASED UPON ANTICIPATED AMBIENT TEMPERATURE, SOURCES OF HEAT OR SPECIFIC LOCATIONS SUCH AS SKYLIGHTS AS REQUIRED BY NFPA 13. UNLESS

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

TEMPERATURE RATED.

PROVIDE A CABINET WITH SPARE SPRINKLERS AND A LIST OF SPARE SPRINKLERS AS REQUIRED BY NFPA 13. PROVIDE SPRINKER PROTECTION ABOVE AND BELOW WOOD CEILINGS. REFER TO ARCHITECTURAL RCPs FOR ADDITIONAL INFORMATION. STANDPIPE SYSTEM

OTHERWISE NOTED OR REQUIRED SPRINKLERS SHALL BE ORDINARY

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

PROVIDE DRAIN VALVES AT THE BASE OF EACH STANDPIPE AND DRAIN

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

	SPRINKLER SCHEDULE				
APPLICATION(S)	TYPE	FRAME(S)	RESPONSE	K-FACTOR(S)	FINISH
BACK OF HOUSE SPACES WITH EXPOSED CEILINGS	STANDARD-SPRAY, EXPOSED	UPRIGHT, PENDENT & SIDEWALL	QUICK	5.6, 8.0*	BRASS
NON-RESIDENTIAL SPACES WITH FINISHED CEILINGS	STANDARD-SPRAY, CONCEALED WITH FLAT COVERPLATE	PENDENT	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

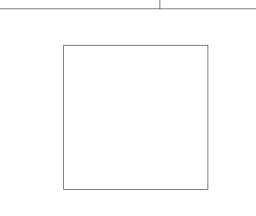
1. PROVIDE SQUARE COVERPLATES FOR SPRINKLERS WITH WHITE FINISHES FOR GYPSUM AND ACT CEILINGS AND BLACK FOR WOOD CEILINGS. PROVIDE CUSTOM COLORED COVERPLATES FOR METAL CEILINGS IN THE OWNER'S LOUNGE OF TOWER C.

2. PROVIDE SQUARE COVERPLATES FOR SPRINKLERS WITH WHITE FINISHES FOR GYPSUM CEILINGS AND BLACK FOR WOOD CEILINGS.

	SPRINKLER SY	YSTEM DESIGN CRITE	RIA - NFPA 13			
APPLICABLE AREAS		OCCUPANCY HAZARD	MAX AREA PER SPRINKLER (SQFT)	DISCHARGE DENSITY (GPM/SQFT)	AREA OF SPRINKLER OPERATION (SQFT)	HOSE STREAM ALLOWANCE (GPM)
AMENITIES, CORRIDORS, BATHROOMS, OFFICES, RESTARAUNT, COMMON AEAS & SIMIILAR		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 SY	YSTEM DESIGN CRITE	RIA - NFPA 14			
NFPA 14 CLASS	OUTLET LOCATIONS		FDV OUTLET NOMINAL SIZE (IN.)	MAXIMUM STATIC PRESSURE (PSI)	MINIMUM STATIC PRESSURE (PSI)	TOTAL SYSTEM DESIGN FLOW
CLASS I - AUTO	- AUTO EGRESS STAIRS - MAIN LANDING		2 1/2	175	100	750 I 1000*

Reserved for permit stamp

• —



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 H20 2696 N University Ave, Suite 290 Provo, UT 84604

<u>Landscape Architect</u> **EPG Design**6949 South High Tech Drive, Suite 100

Specifications Writer Friday Group 88 Mainelli Road Middlebury, VT

Midvale, Utah 84047

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 Consulatant Lerch Bates

19515 North Creek Parkway, Suite 304 Bothell, WA 98011 Structural Engineer **Magnusson Klemencic Associates**

Seattle, WA 98101 <u>Lighting Designer</u> 1319 SE MLK Blvd, Suite 210

1301 5th Ave, Suite 3200

Building Envelope Consultant 2101 N 34th St

Portland, Oregon 97219

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

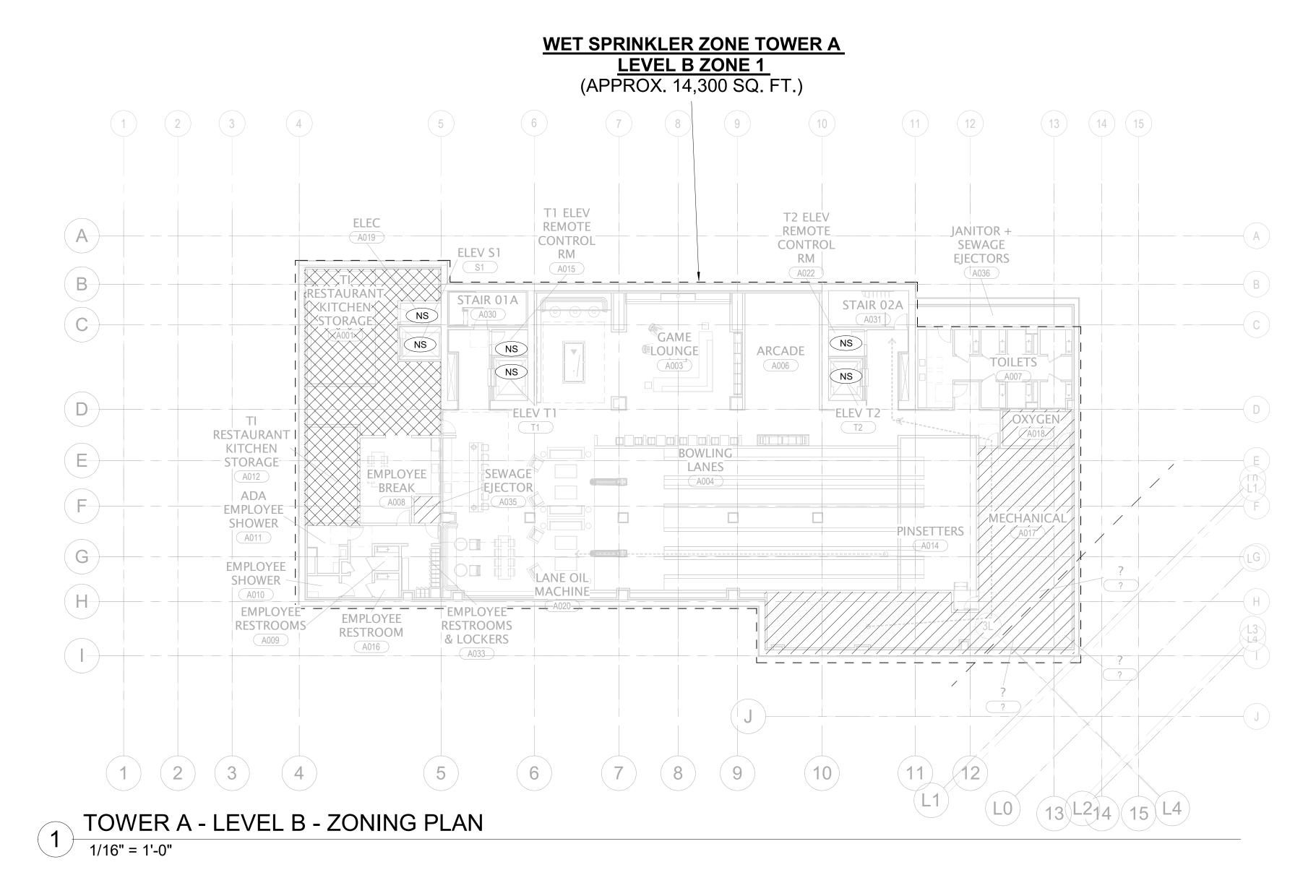
· principal architect_____ project manager__JCC_____ drawn by CRB, SMK ____ checked by Checker job no. 20052 date 11/18/2022 revisions:

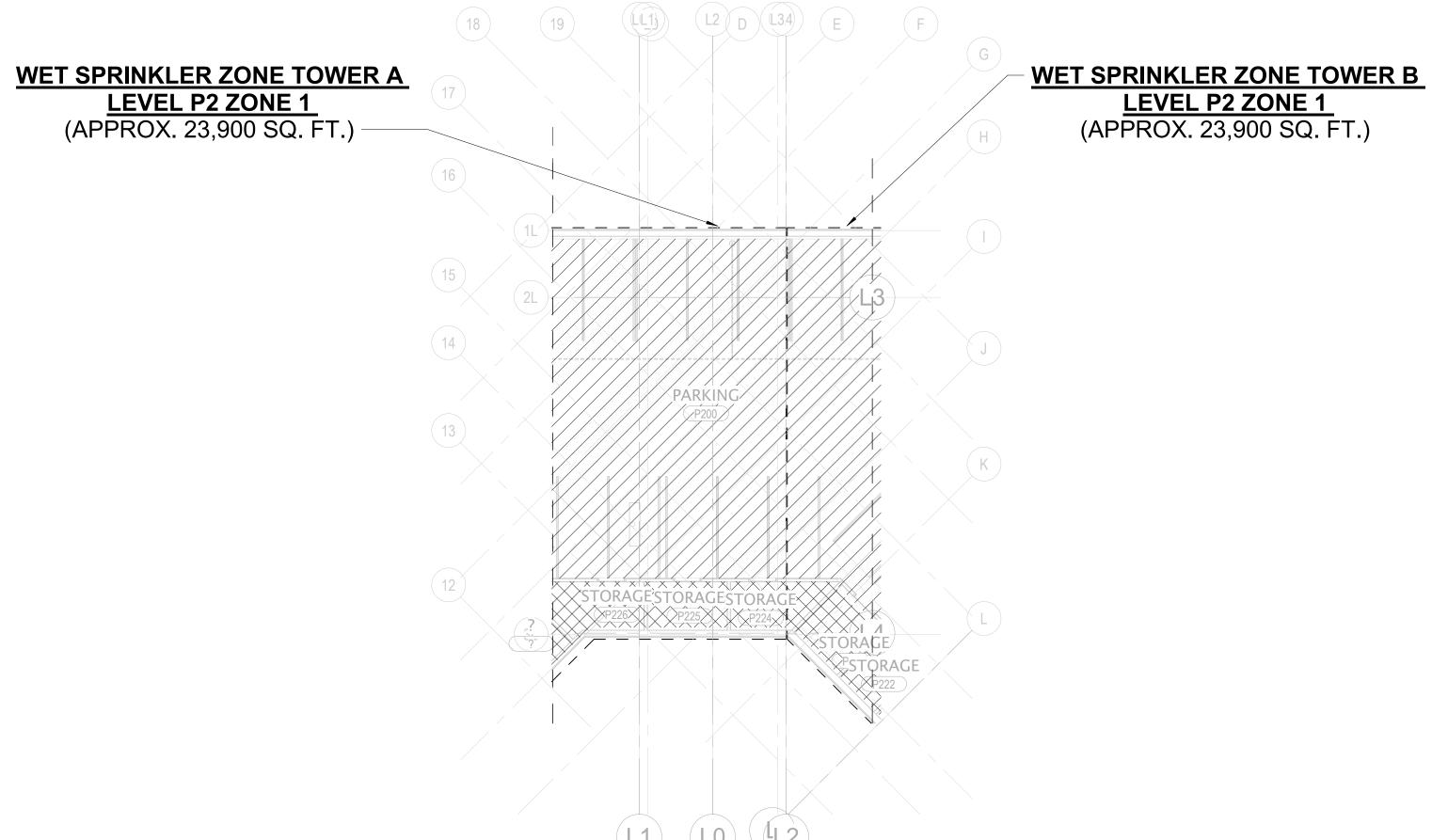
no. date by

ISSUE FOR CONSTRUCTION 11/18/2022

FIRE PROTECTION NOTES, LEGEND AND DESIGN CRITERIA

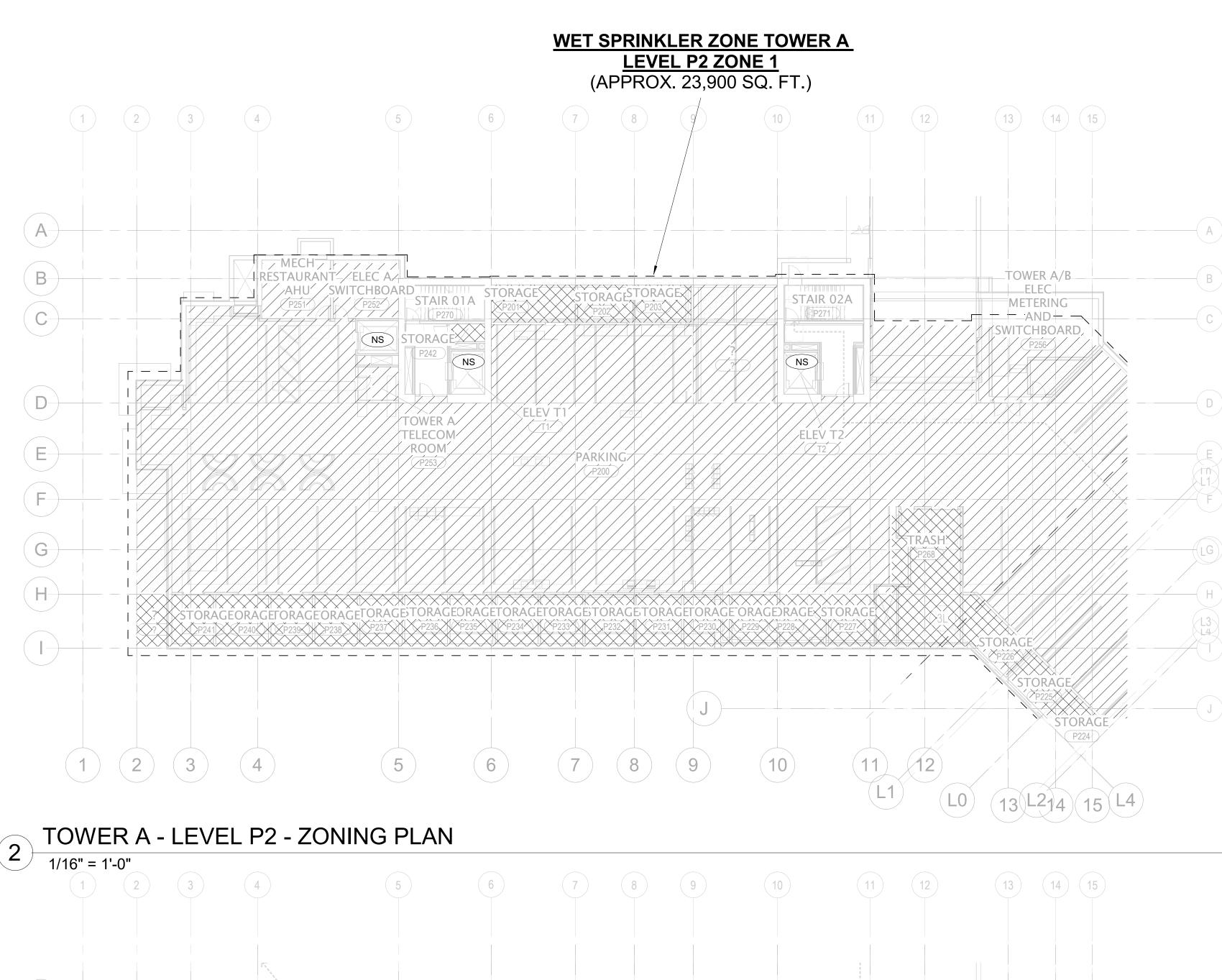
FP0.00

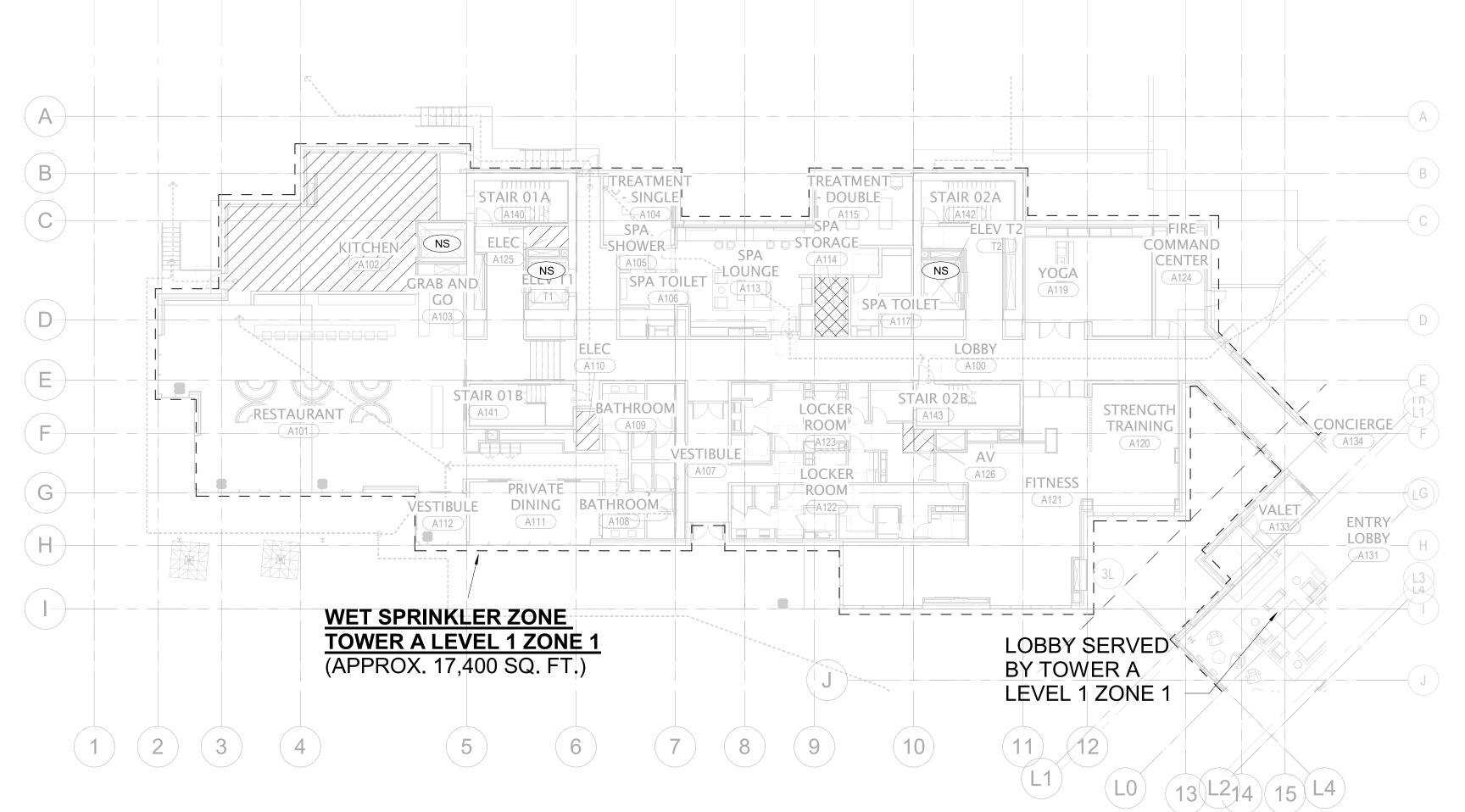




L1 L0 L2 TOWER AB LOBBY - LEVEL P2 - ZONING PLAN

1/16" = 1'-0"





TOWER A - LEVEL 1 - 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
0 0 0 0 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

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 H20 2696 N University Ave, Suite 290 Provo, UT 84604

<u>Landscape Architect</u> **EPG Design**6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

<u>Specifications Writer</u> **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 Consulatant Lerch 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

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

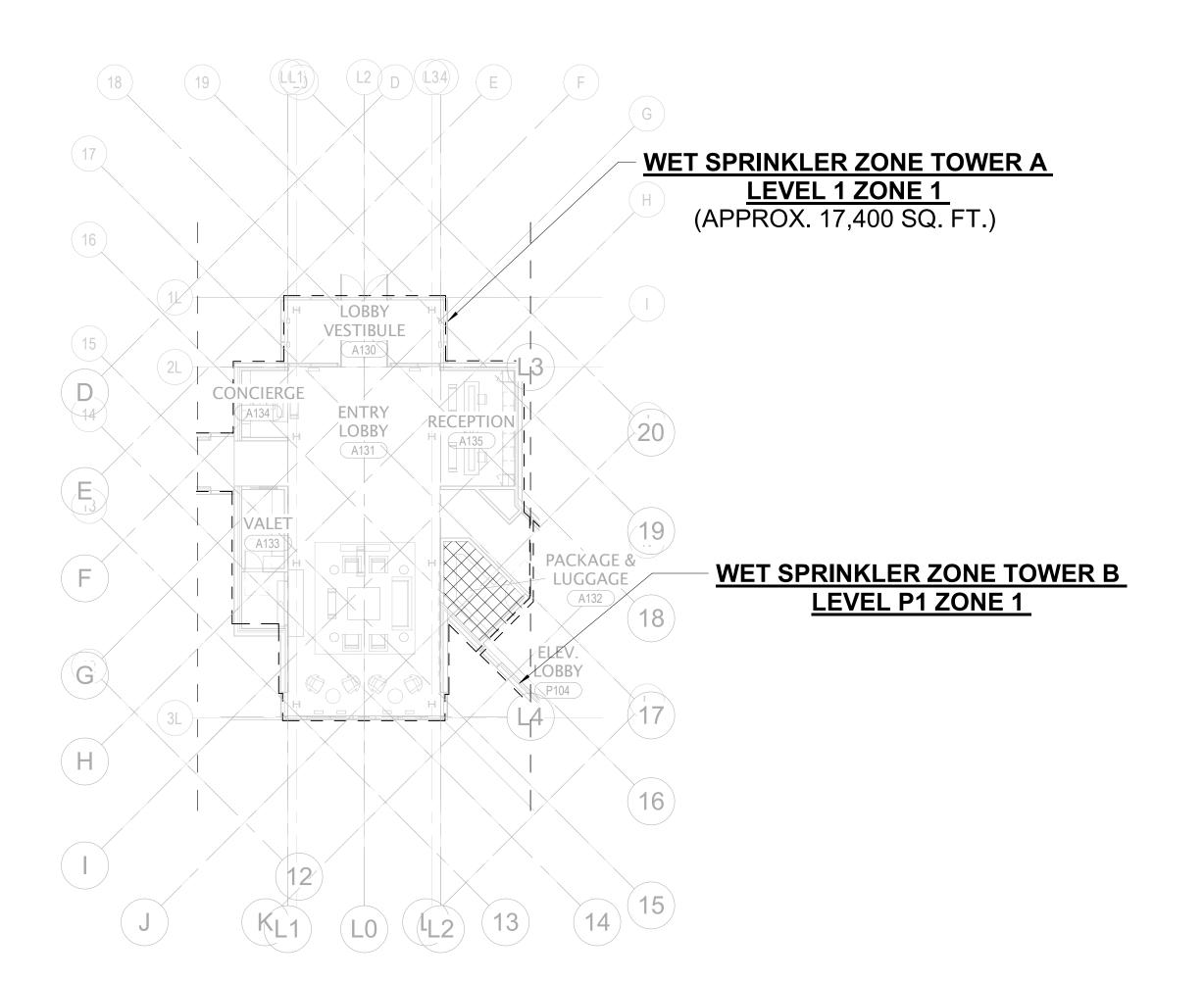
date 11/18/2022

no. date

ISSUE FOR CONSTRUCTION 11/18/2022

FIRE PROTECTION -TOWER A - ZONING **PLANS**

FP1.01



TOWER AB LOBBY - LEVEL 1 - ZONING PLAN

TOWER A - LEVEL 3 - ZONING PLAN

1/16" = 1'-0"

WET SPRINKLER ZONE TOWER A **LEVEL 3 ZONE 1** (APPROX. 7,500 SQ. FT.) STAIR 01A PATH 3 | A301 | CLOSET CORRIDOR OF 195 CORRIDO WET SPRINKLER ZONE TOWER A **LEVEL 3 ZONE 1** (APPROX. 8,100 SQ. FT.)

WET SPRINKLER ZONE TOWER A **LEVEL 2 ZONE 2** STAIR 01A

BED 2 o c 6 BED 25 0 (A204) LIVING O DEN O O DENTRY O O O O O DENTRY O DENTRY O O O O O DENTRY O DENTRY O DENTRY O O O O O DENTRY O POWDER

STAIR 01B

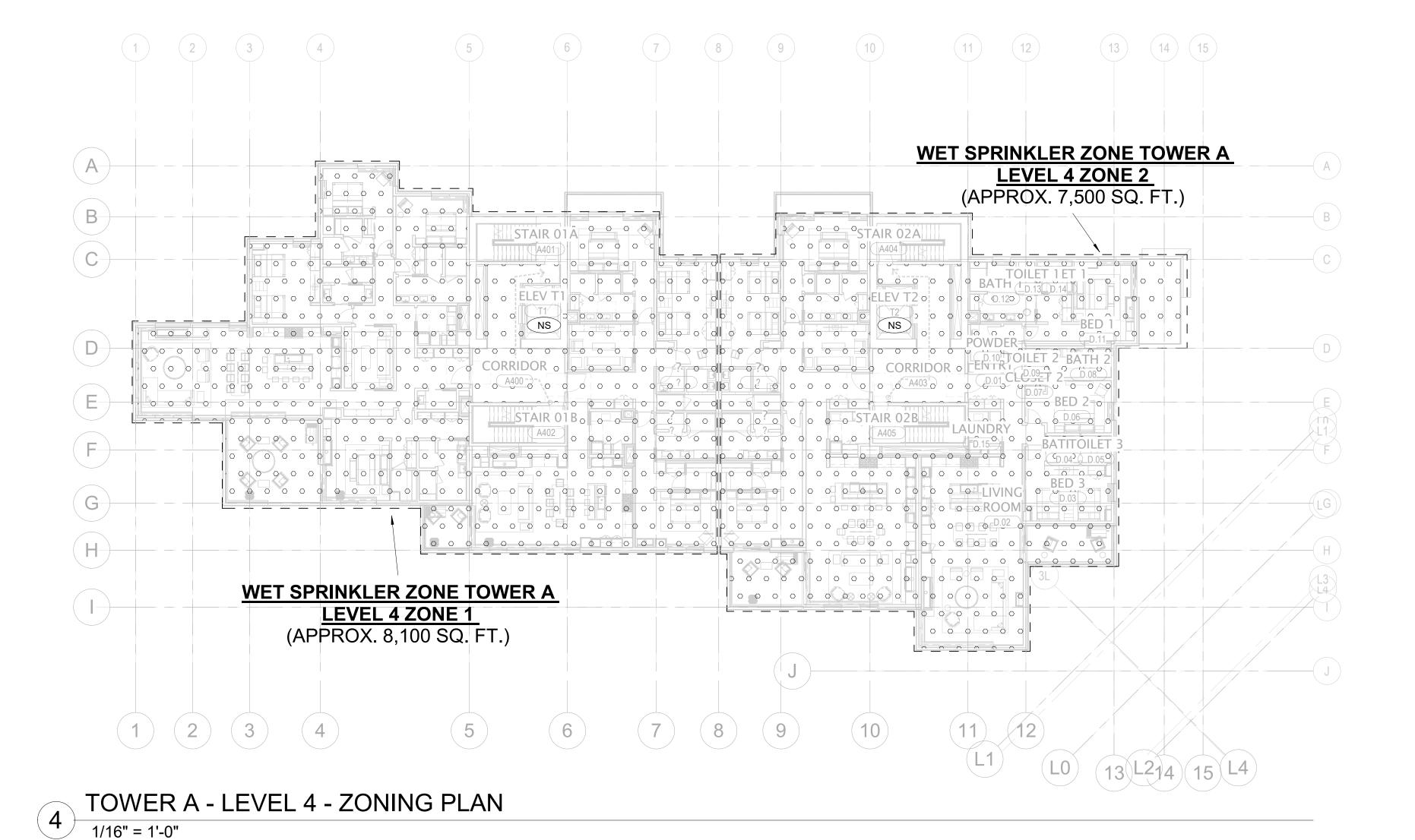
LAUNDRY

BED 1

BE OOOOO E.06 OOOO LIVING OOO BED 1 OB.04 POOE? OO LIVINGO OOO BATH OOO BATH 27 0 0 0 0 0 0 0 0 0 0 0 0 0 WET SPRINKLER ZONE TOWER A **LEVEL 2 ZONE 1** (APPROX. 8,100 SQ. FT.)

2 TOWER A - LEVEL 2 - 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
+ + + + + + + + + + + + + + + + + + +	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 Kundig

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

Pool Consultant
Cloward H20 2696 N University Ave, Suite 290 Provo, UT 84604 <u>Landscape Architect</u> **EPG Design**6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

1932 1st Ave, Suite 620 Seattle, WA 98101

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 <u>Vertical Transportation Consulatant</u> **Lerch Bates**

19515 North Creek Parkway, Suite 304 Bothell, WA 98011 <u>Structural Engineer</u>

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

<u>Lighting Designer</u> 1319 SE MLK Blvd, Suite 210 Portland, Oregon 97219 Building Envelope Consultant

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

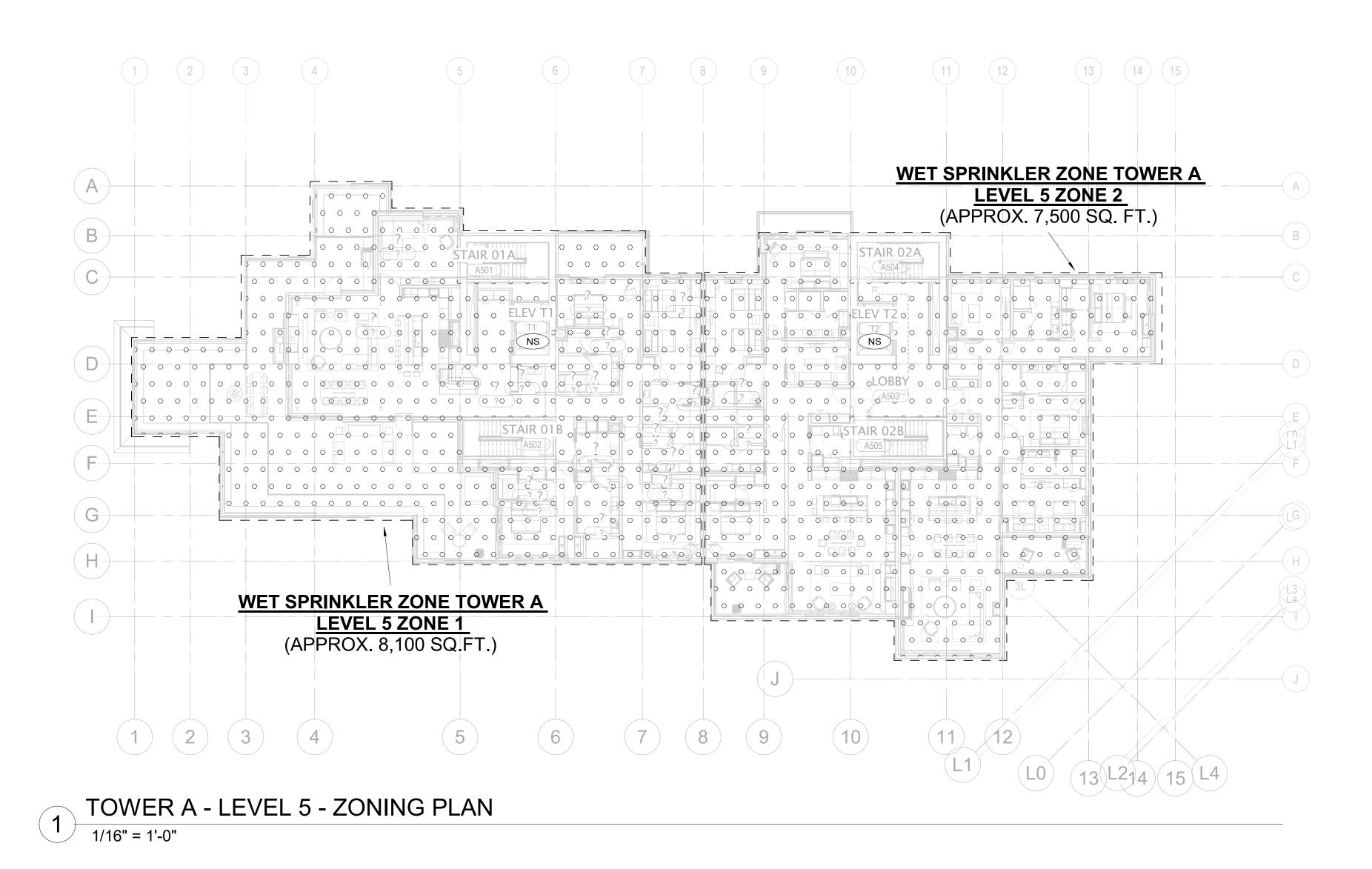
checked by Checker job no. 20052 date 11/18/2022

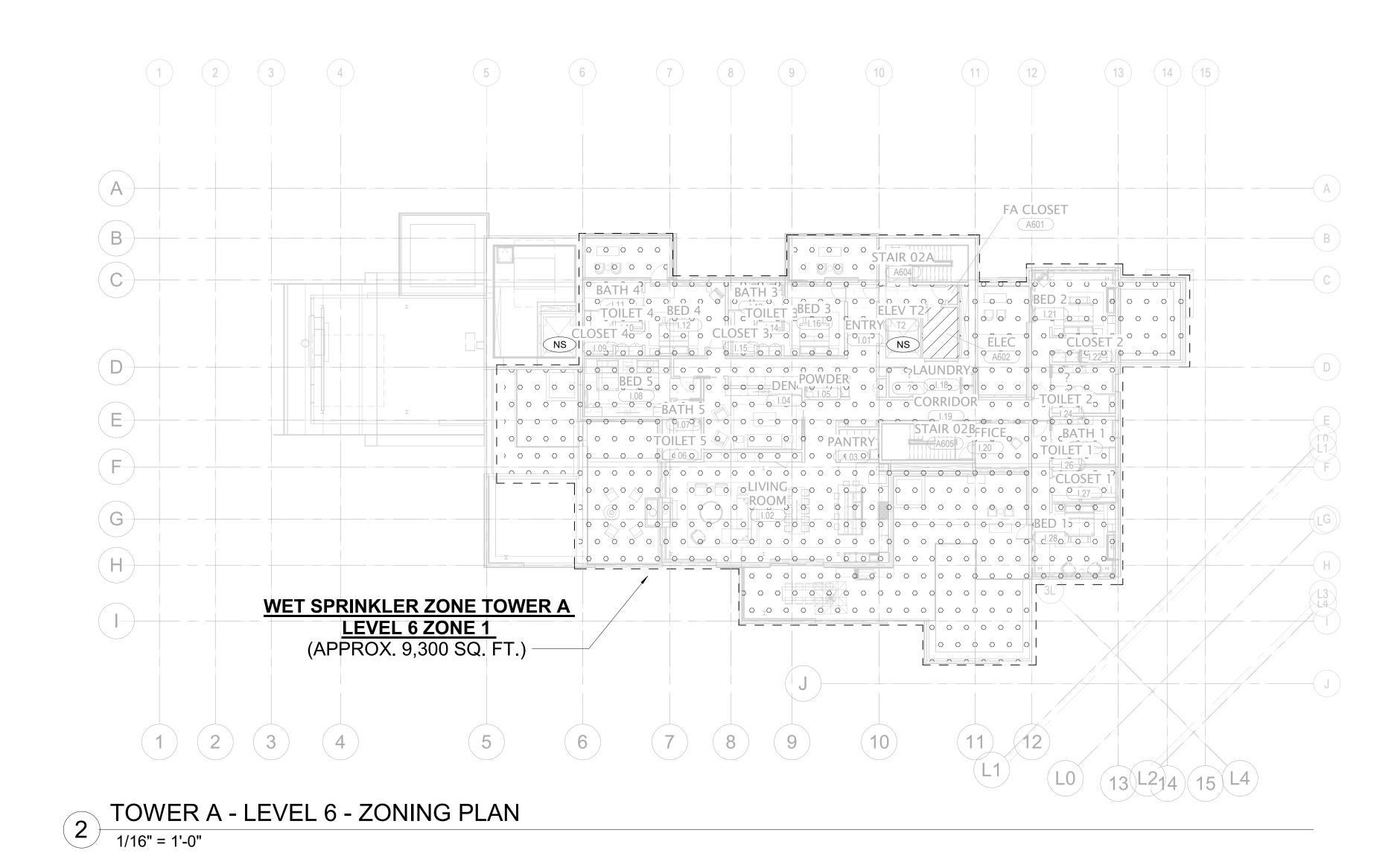
no. date

ISSUE FOR CONSTRUCTION 11/18/2022

FIRE PROTECTION TOWER A - ZONING **PLANS**

FP1.02





Specifications Writer
Friday Group Middlebury, VT Code Consultant Holmes

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

Kundig

Reserved for permit stamp

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 H20 2696 N University Ave, Suite 290 Provo, UT 84604

<u>Landscape Architect</u> **EPG Design**6949 South High Tech Drive, Suite 100 Midvale, Utah 84047

88 Mainelli Road

Seattle, WA 98104 Fire Protection Engineer
Jensen Hughes One Research Drive, Suite 305C

Westborough, MA 01581

600 1st Avenue, Suite 200A

Vertical Transportation Consulatant Lerch Bates 19515 North Creek Parkway, Suite 304 Bothell, WA 98011

Structural Engineer

Magnusson Klemencic Associates 1301 5th Ave, Suite 3200

Seattle, WA 98101 <u>Lighting Designer</u> 1319 SE MLK Blvd, Suite 210 Portland, Oregon 97219

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

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



_____ principal architect_____ project manager__JCC_____ drawn by CRB, SMK ____ checked by Checker _____ job no. 20052

date 11/18/2022

ISSUE FOR CONSTRUCTION 11/18/2022

FIRE PROTECTION -TOWER A - ZONING **PLANS**

no. date

FP1.03