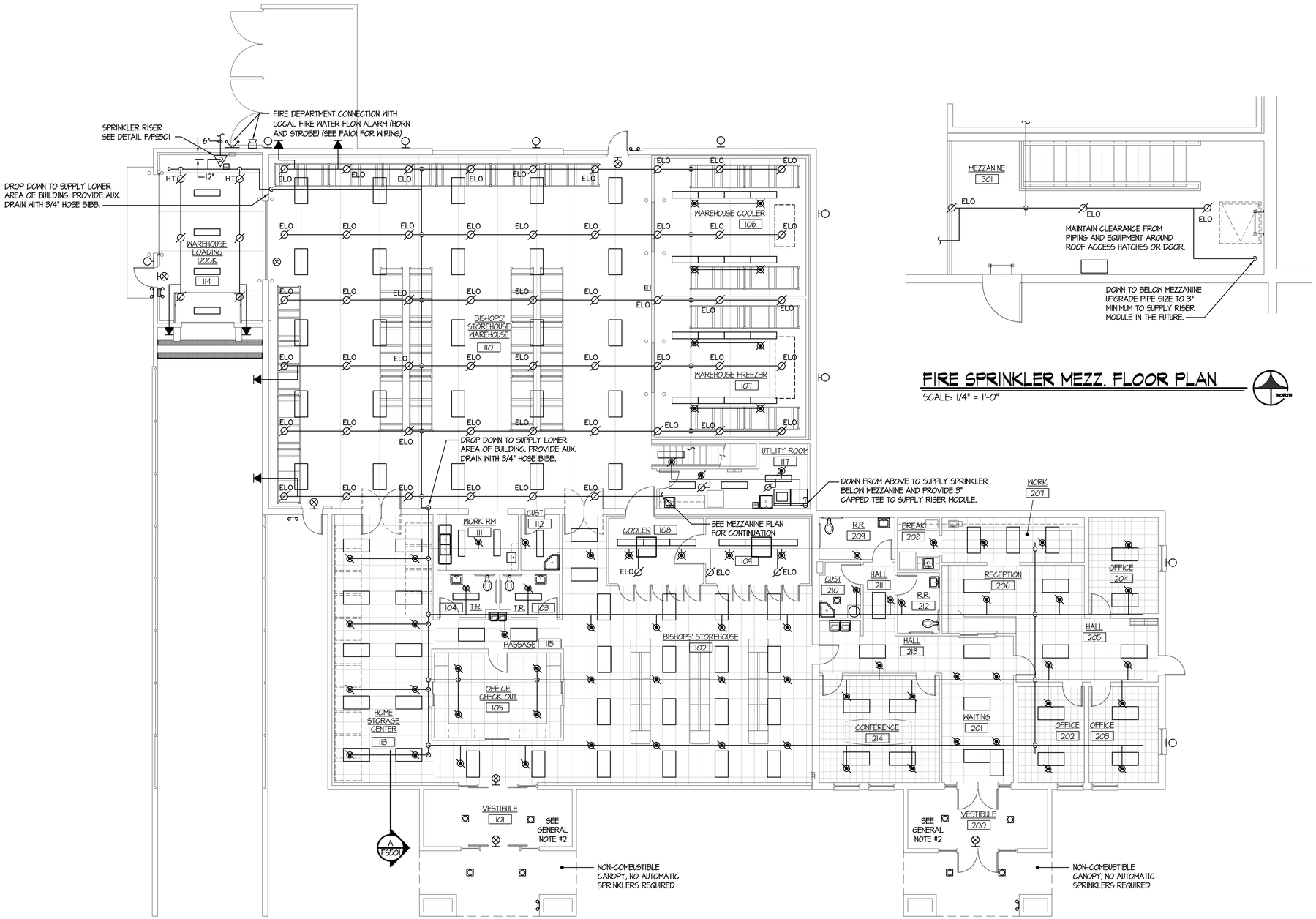

FIRE SPRINKLER FLOOR PLAN

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

FIRE SPRINKLER MEZZ. FLOOR PLAN

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

GENERAL NOTES:

1- INSTALL FIRE PROTECTION PIPING AS SHOWN. WET-PIPE SYSTEM THROUGHOUT ALL AREAS OF THE BUILDING.

2- USE DRY-BARREL TYPE SPRINKLERS IN COOLERS, FREEZERS, CANOPIES, AND VESTIBULES WHEN SUPPLIED FROM WET SYSTEM.

3- OBTAIN APPROVAL FOR PIPING CHANGES FROM ARCHITECT AND ENGINEER.

4- RUN PIPING LEVEL OR SLOPED TO DRAIN AS DESIGNATED IN NFPA 13.

5- THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER THE REQUIREMENTS OF NFPA 13:
   - A. WAREHOUSE - CEILING PROTECTION FOR RACK STORAGE OF CLASS I TO IV COMMODITIES TO 22 FT HIGH. 0.51 GPM/SF OVER 2000 SF.
   - B. DRY-PACK, STOREHOUSE, FREEZERS, COOLERS, LOADING DOCK, AND HOME STORAGE - ORDINARY HAZARD GP-2; 0.20 GPM/SF OVER 1500 SF.
   - C. OFFICE, RESTROOM, ETC. - LIGHT HAZARD; 0.10 GPM/SF OVER 1500 SF.

6- SPRINKLER HEAD SPACING:
   LIGHT HAZARD AREAS: 225 SQ. FT.
   ORDINARY HAZARD AREAS: 130 SQ. FT.
   STORAGE AREAS: 100 SQ. FT.

7- SEE SITE PLAN FOR UTILITY CONNECTION AND LOCATION OF FIRE HYDRANTS AND POST INDICATING VALVE.

8- DO NOT ROUTE PIPING THRU STRUCTURAL MEMBERS OR MECHANICAL DUCT WORK EXCEPT AS SHOWN ON THE DRAWINGS.

9- SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF SPRINKLER HEADS. SPRINKLER HEADS DO NOT HAVE TO BE CENTERED IN THE ACOUSTICAL TILES.

10- COORDINATE WITH FRAMER FOR SHEAR-WALL PENETRATIONS.

11- ALL WET-PIPE SYSTEM COMPONENTS (EXCEPT DRY SPRINKLERS) SHALL BE INSIDE THE BUILDING INSULATION ENVELOPE.

12- ALL REQUIRED DRAINS SHALL FOLLOW NFPA 13 REQUIREMENTS. DRAIN VALVES SHALL BE LOCATED TO PREVENT PUBLIC ACCESS AND SHALL BE PIPED TO DISCHARGE OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.

13- PROVIDE FIRE SPRINKLERS UNDER CANOPIES ONLY IF REQUIRED BY THE LOCAL FIRE MARSHAL.

HYDRAULIC DESIGN INFORMATION FOR OFFICE SYSTEM

REMOTE AREA =	_____ SQUARE FEET
DENSITY =	_____ GPM/SQUARE FEET
RISER BASE	_____ GPM _____ PSI

HYDRAULIC DESIGN INFORMATION FOR STOREHOUSE SYSTEM

REMOTE AREA =	_____ SQUARE FEET
DENSITY =	_____ GPM/SQUARE FEET
RISER BASE	_____ GPM _____ PSI

HYDRAULIC DESIGN INFORMATION FOR WAREHOUSE SYSTEM

REMOTE AREA =	_____ SQUARE FEET
DENSITY =	_____ GPM/SQUARE FEET
RISER BASE	_____ GPM _____ PSI

WATER FLOW TEST

TEST DATE:	9/26/99	TEST TIME:	DAY TIME
STATIC:	70 psi	RESIDUAL:	64 psi
FLOW:	2050 gpm	LOCATION:	SW CORNER OF PROPERTY
TEST BY:	BART McKEE OF SPRINGFIELD WATER UTILITY		

CONTRACTOR MUST RETEST AND CONFIRM DATA.

FIRE SPRINKLER LEGEND

Ø	UPRIGHT HEAD	W	WET PIPE RISER
ØHT	UPRIGHT HIGH TEMPERATURE HEAD	TS	TAMPER SWITCH
●	CONCEALED PENDENT HEAD	FS	FLOW SWITCH
⊗	DRY PENDENT SEM-RECESSED HEAD		EXTERIOR HORN/STROBE
◀	DRY SIDEWALL HEAD		SYSTEM MAIN RISER
◐	PENDENT SEMI-RECESSED HEAD		PIPE CAP
ØELO	UPRIGHT HEAD = K-FACTOR 8.0 MIN.		FIRE DEPARTMENT CONNECTION

HEAD COUNT

SPRINKLER	K-FACTOR	ORIFICE	FINISH	TYPE	CANOPY	DEGREE	GLASS BULB COLOR	QTY
Ø	5.6	1/2"	BRONZE	UPRIGHT	INTERMEDIATE TEMPERATURE	175-225	YELLOW OR GREEN	
ØHT	5.6	1/2"	BRONZE	UPRIGHT	HIGH TEMPERATURE	250-300	BLUE	
●	5.6	1/2"	WHITE	PENDENT	CONCEALED	135-170	ORANGE OR RED	
⊗	5.6	1/2"	CHROME	DRY PENDENT	SEMI-RECESSED	175-225	YELLOW OR GREEN	
◀	5.6	1/2"	CHROME	DRY SIDEWALL	SEMI-RECESSED	175-225	YELLOW OR GREEN	
◐	5.6	1/2"	CHROME	PENDENT	SEMI-RECESSED	175-225	YELLOW OR GREEN	
ØELO	11.2	3/4"	BRONZE	UPRIGHT	INTERMEDIATE TEMPERATURE	175-225	YELLOW OR GREEN	

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS
DATE ORIGINAL SIGNED: April 15, 2018
ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
1355 EAST CENTER, POCATELLO, IDAHO 83201

MECHANICAL REGISTERED PROFESSIONAL ENGINEER 9117IPE OREGON MAY 11, 2016 DWAYNE C. SUDWEEKS
EXPIRES: 06/30/2018

Engineered Systems Associates
1355 EAST CENTER
POCATELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 16038

Architect / Engineer:
JRW ARCHITECTS
1152 BOND AVENUE - Suite A V 208.359.2309
REXBURG, IDAHO 83440 Fax 208.359.2271

Stamp:

SPRINGFIELD OREGON
BISHOP'S STOREHOUSE
SPRINGFIELD OREGON

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Project Number: WEC 15504
Plan Series: - JRWA Proj. 662
Property Number: 541-8550

Sheet Title: FIRE SPRINKLER FLOOR PLAN

Sheet: FS101