

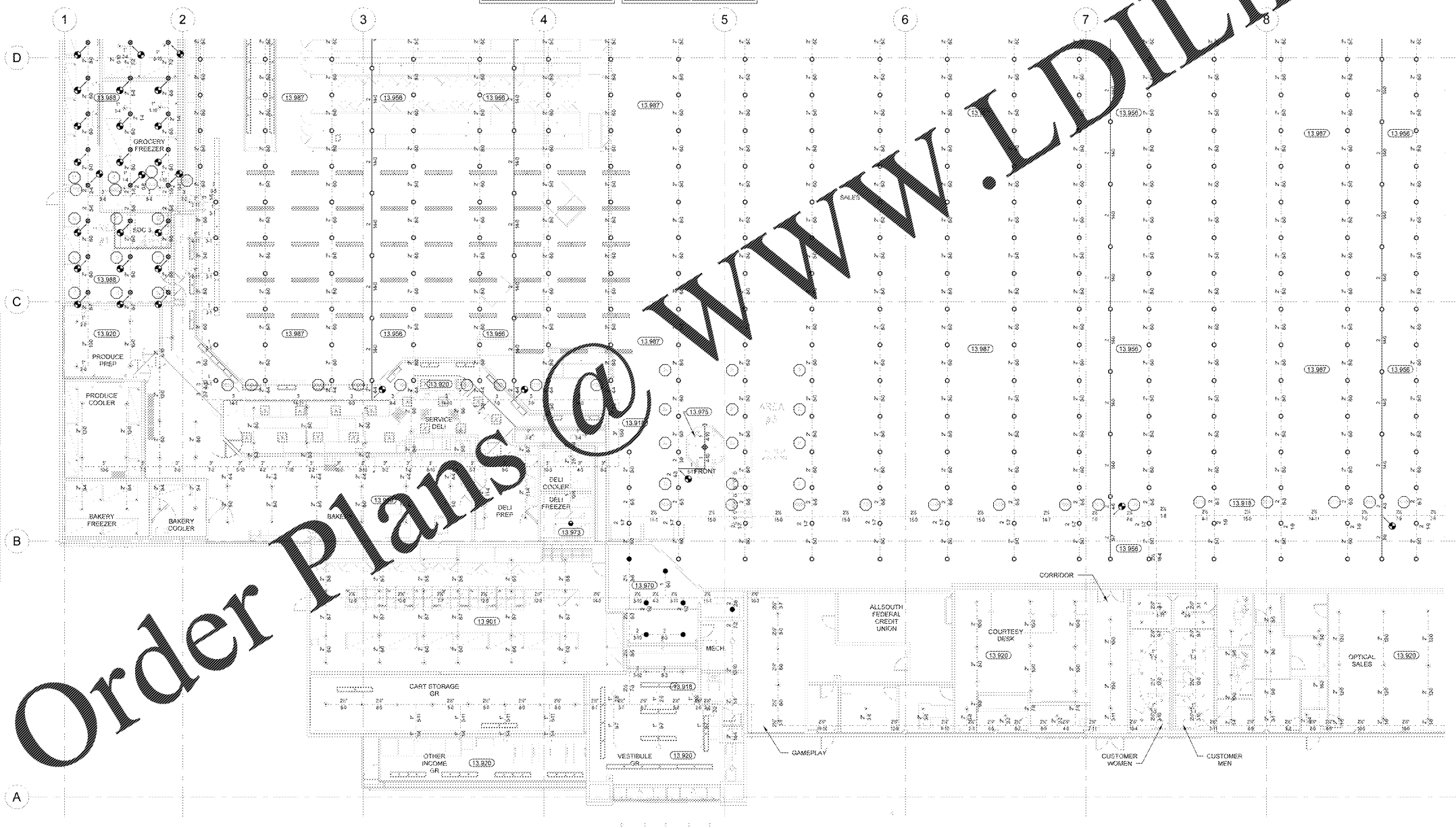
KEYNOTES

- 13.901 COORDINATE SPRINKLER PROTECTION PER REMOVAL, RELOCATION AND/OR ADDITION OF WALLS AND/OR CEILINGS. WHERE NECESSARY, REMOVE EXISTING SPRINKLERS AND ASSOCIATED PIPING, CAP OUTLETS NOT INTENDED FOR REUSE. WHERE NEW SPRINKLERS ARE REQUIRED WITHIN THE SAME COMPARTMENT AS EXISTING TO REMAIN SPRINKLERS, NEW SPRINKLERS SHALL MATCH EXISTING SPRINKLER TYPE, K-FACTOR, TEMPERATURE RATING AND FINISH. WHERE APPLICABLE, ALIGN NEW SPRINKLERS WITH EXISTING TO REMAIN SPRINKLERS AND COORDINATE WITH NEW AND EXISTING EQUIPMENT AND WALLS TO MEET NFPA 13 SPACING REQUIREMENTS. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION.
- 13.915 PROVIDE AIR VENT ON THE HIGHEST POINT OF SYSTEM, PREFERABLY ON THE MAIN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE HIGHEST POINT OF EACH SYSTEM AND INSTALLING THE AIR VENT IN AN ACCESSIBLE LOCATION. REF: 1-P-93.
- 13.920 EXISTING SPRINKLERS AND BRANCHLINES TO REMAIN.
- 13.921 PROVIDE NEW BRANCHLINES IN THIS AREA TO VENT AIR OUTSIDE THROUGH EXISTING BUILDING.
- 13.922 PROVIDE NEW PENDENT SPRINKLERS IN THIS AREA SUBJECT TO EXISTING SPRINKLER PIPING. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION. EXISTING UPRIGHT SPRINKLER PROTECTION WHERE PROVIDED AT THE CEILING/ROOF DECK LEVEL TO REMAIN UNLESS NOTED OTHERWISE.
- 13.973 REMOVE EXISTING DRY PENDENT SPRINKLER AND PROVIDE NEW DRY CONCEALED PENDENT SPRINKLERS AS SHOWN AND CONNECT TO EXISTING OVERHEAD SYSTEM. REF: 3-4-P3. COORDINATE WITH LOCATION OF LIGHTS AND EVAPORATOR UNITS. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION. EXISTING CEILING LEVEL SPRINKLER PROTECTION SHALL REMAIN. REF: 4-P3. ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER.
- 13.975 DROP 1" PIPE TO 12" ABOVE AUTOMATED EQUIPMENT. CONNECT SEMI-RECESSED PENDENT SPRINKLER TO 4'-0" FLEXIBLE DROP. REF: 7-P3. CONNECT TO NEAREST BRANCHLINE.
- 13.987 REPLACE EXISTING 1/2" UPRIGHT SPRINKLERS WITH TYCO TY5831 11.2K UPRIGHT SPRINKLERS. REFERENCE FPI SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY FITTINGS WHERE NEW SPRINKLERS DO NOT FIT THE EXISTING OUTLETS.
- 13.988 REPLACE EXISTING 3/4" UPRIGHT SPRINKLERS WITH TYCO TY1158 18.8K UPRIGHT SPRINKLERS. REFERENCE FPI SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY FITTINGS WHERE NEW SPRINKLERS DO NOT FIT THE EXISTING OUTLETS.

HYDRAULIC DESIGN		HYDRAULIC DESIGN	
SYSTEM # 2	REMOTE AREA # 3	SYSTEM # 2	REMOTE AREA # 3
SPRINKLERS CALCULATED	12 SPRINKLERS	SPRINKLERS CALCULATED	2 SPRINKLERS
SPRINKLER PRESSURE	10 PSI	SPRINKLER PRESSURE	25 PSI
HOSE ALLOWANCE	250 GPM	HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	682 GPM	SYSTEM FLOW DEMAND @ SRC	362 GPM
SYSTEM PRESSURE DEMAND @ SRC	60.0 PSI	SYSTEM PRESSURE DEMAND @ SRC	44.5 PSI
SYSTEM SAFETY FACTOR	18.8 PSI	SYSTEM SAFETY FACTOR	35.1 PSI

HYDRAULIC DESIGN	
SYSTEM # 1	GR SIDESTOCK
SPRINKLERS CALCULATED	12 SPRINKLERS
SPRINKLER PRESSURE	7 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	824 GPM
SYSTEM PRESSURE DEMAND @ SRC	71.8 PSI
SYSTEM SAFETY FACTOR	6.4 PSI

HYDRAULIC DESIGN	
SYSTEM # 1	GR SIDESTOCK
SPRINKLERS CALCULATED	2 SPRINKLERS
SPRINKLER PRESSURE	12 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	367 GPM
SYSTEM PRESSURE DEMAND @ SRC	30.4 PSI
SYSTEM SAFETY FACTOR	49.2 PSI



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1 ENLARGED FIRE PROTECTION PLAN
 SCALE: 3/32" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

KEYNOTES

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ENLARGED FIRE SPRINKLER PLAN

SHEET: FP.2