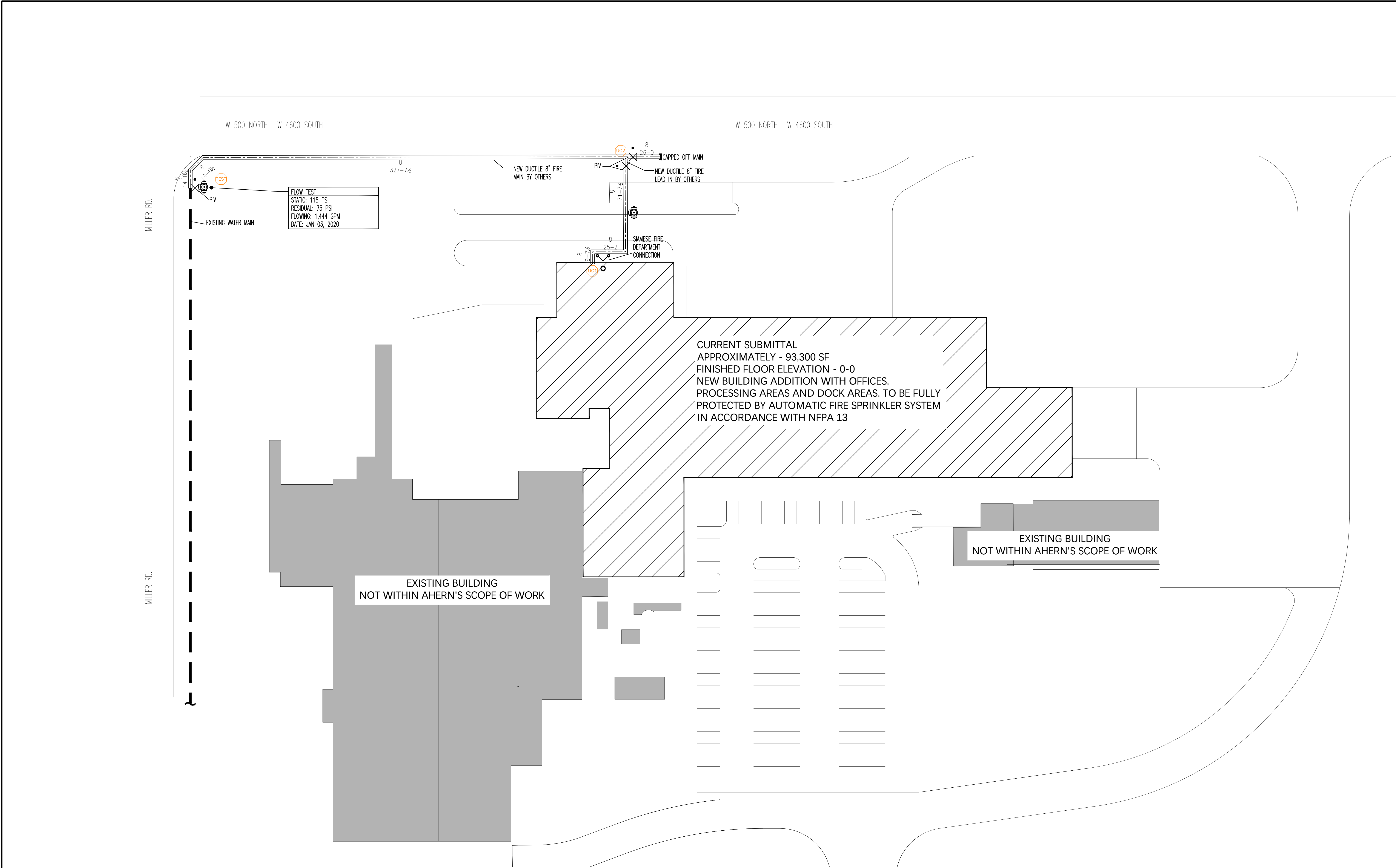
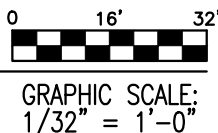




1 SITE PLAN
FP-001

REVIEWER NOTE: UNDERGROUND UTILITIES ARE FOR HYDRAULIC REFERENCE ONLY AND NOT WITH IN THE SCOPE OF AHERN. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION.



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AS-BUILTS

03/25/2022

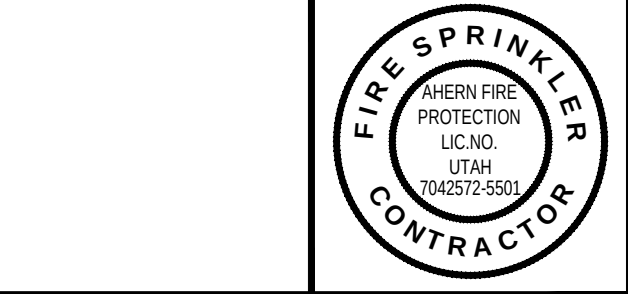
REVISION HISTORY		
REV	DATE	ISSUANCE DESCRIPTION
	3/25/22	AS-BUILTS

AUTOMATIC SPRINKLER DESIGN BASED ON THE FOLLOWING STANDARDS:

☒ NFPA 13 - 2016

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WEST POINT DAIRY
570 NORTH 500 WEST
HYRUM, UTAH 84319

SITE PLAN

IF DRAWING IS PLOTTED CORRECTLY
THIS BAR SHOULD MEASURE 2"

DRAWN BY: IBRAHIM SULEIMAN

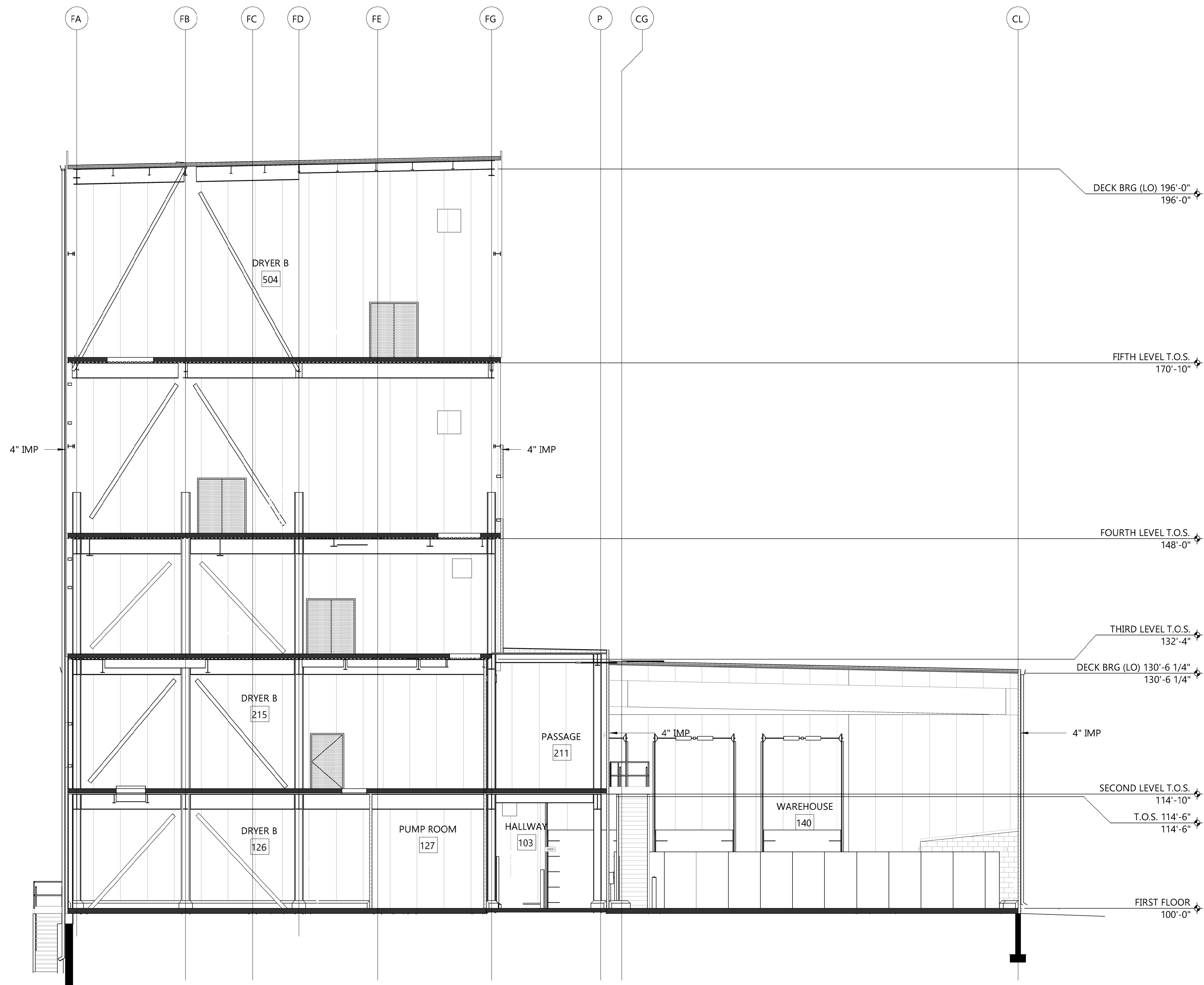
PROJECT MGR: DAVID KOERNER

DATE: 10/9/2020

CONTRACT NO: 2846

AS-BUILT DOCUMENTS

FP-001



1 BUILDING SECTION
FP-002

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

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△	06/27/22	ASBUILT
△	01/18/21	FABRICATION DOCUMENTS
△	11/23/20	SUBMITTAL DOCUMENTS
△	10/9/20	SUBMITTAL DOCUMENTS
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SECTION VIEW

IF DRAWING IS PLOTTED CORRECTLY
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DRAWN BY:	IBRAHIM SULEIMAN
PROJECT MANAGER:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO.:	2846

FABRICATION DOCUMENTS

FP-002

"AS-BUILTS"
06-27-2022

GENERAL NOTES:

WET PIPE SYSTEM NOTES: THE OWNER IS RESPONSIBLE FOR PROVIDING ADEQUATE HEAT (MAINTAINED AT OR ABOVE 40° F) THROUGHOUT THE ENTIRE AREA PROTECTED BY A WET PIPE SYSTEM.

WATERFLOW DETECTING AND ALARM APPARATUS FOR WET PIPE SYSTEMS WILL BE PROVIDED AND INSTALLED. ANY NECESSARY WIRING OF THE ELECTRICAL DEVICES PROVIDED BY AHERN FIRE PROTECTION WILL BE PERFORMED BY OTHERS. REMOTE CENTRAL ALARM STATIONS (IF REQUIRED) ARE THE RESPONSIBILITY OF THE OWNER.

EACH WET PIPE SYSTEM WILL BE PROVIDED WITH RELIEF VALVE NOT LESS THAN 1/2" IN SIZE SET TO OPERATE AT 175 PSI OR 10 POUNDS IN EXCESS OF THE MAXIMUM SYSTEM PRESSURE WHICHEVER IS GREATER. THE RELIEF VALVE WILL BE INSTALLED AT THE REMOTE INSPECTION TEST VALVE OR AT THE SYSTEM RISER.

WET PIPE SYSTEM DESCRIPTION: A SPRINKLER SYSTEM EMPLOYING AUTOMATIC SPRINKLERS ATTACHED TO A PIPING SYSTEM CONTAINING WATER AND CONNECTED TO A WATER SUPPLY SO THAT WATER DISCHARGES IMMEDIATELY FROM SPRINKLERS OPENED BY HEAT FROM A FIRE. UPON OPERATION, THE SPRINKLERS DISTRIBUTE WATER OVER A SPECIFIC AREA TO CONTROL OR EXTINGUISH THE FIRE. AS THE WATER FLOWS THROUGH THE SYSTEM PIPING, AN ALARM IS ACTIVATED TO INDICATE THAT THE SYSTEM IS OPERATING. SPRINKLERS IMMEDIATELY OVER OR ADJACENT TO THE FIRE OPERATE – MINIMIZING WATER DAMAGE.

GENERAL SYSTEM NOTES: ALL MATERIALS AND DEVICES ESSENTIAL TO THE SYSTEM OPERATION ARE TO BE UL LISTED

A TOTAL OF 24 SPARE SPRINKLERS (IN CABINET WITH HEAD WRENCH) WILL BE PROVIDED IN ACCORDANCE WITH NFPA 13, SECTION 6.2.9

ALL CONTROL, DRAIN, VENTING, AND TEST CONNECTION VALVES TO BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID IDENTIFICATION SIGNS PER NFPA 13, SECTION 6.6.4

FIRE DEPARTMENT (SIAMSE) CONNECTION TO BE PROVIDED WITH THREADS MATCHING LOCAL REQUIREMENTS (NST UNLESS NOTED OTHERWISE).

AUXILIARY DRAINS SHALL BE PROVIDED WHERE A CHANGE IN PIPING DIRECTION PREVENTS DRAINAGE THROUGH THE MAIN DRAIN VALVE PER SECTION 8.16.2.5.

HYDRAULIC DESIGN INFORMATION SIGNS WILL BE PROVIDED FOR EACH REMOTE AREA AND THEY WILL BE ATTACHED TO THE APPROPRIATE RISERS.

ALL DIMENSIONS AND ELEVATIONS SHOWN ARE TO THE CENTERLINE OF PIPE (UNLESS NOTED OTHERWISE).

SPRINKLER HEADS SHOWN ARE NOT NECESSARILY LOCATED IN THE CENTERLINE OF CEILING TILES.

PAINTING OF PIPE AND FITTINGS (IF REQUIRED) IS TO BE PERFORMED BY OTHERS UNLESS SPECIFIED IN THE CONTRACT.

ANY NECESSARY WIRING OF THE ELECTRICAL DEVICES PROVIDED BY AHERN FIRE PROTECTION WILL BE PERFORMED BY OTHERS.

REMOTE CENTRAL ALARM STATIONS (IF REQUIRED) ARE THE RESPONSIBILITY OF THE OWNER.

BLACK SCHEDULE #10

BLACK SCH. #10 BR. LINES: SCHEDULE 10 BLACK STEEL PIPE "SHOP CUT" TO THE LENGTHS INDICATED ON THE PLAN, SHOP ROLL GROOVED BOTH ENDS, SHOP WELDED IF APPLICABLE, FIELD JOINED WITH GROOVED FITTINGS UNLESS OTHERWISE NOTED.

BLACK SCH. #10 SYS. MAINS: SCHEDULE 10 BLACK STEEL "SHOP CUT" TO THE LENGTHS INDICATED ON THE PLAN, SHOP ROLL GROOVED AT BOTH ENDS, SHOP WELDED OUTLETS IF APPLICABLE, FIELD JOINED WITH GROOVED FITTINGS AND COUPLINGS UNLESS OTHERWISE NOTED.

BLACK SCHEDULE #40

BLACK SCH. #40 BR. LINES: SCHEDULE 40 BLACK STEEL PIPE "SHOP CUT" TO THE LENGTHS INDICATED ON THE PLAN, SHOP THREADED AT BOTH ENDS, FIELD JOINED WITH BLACK IRON THREADED FITTINGS (MALLEABLE, DUCTILE OR CAST IRON), UNLESS OTHERWISE NOTED.

GALV. SCHEDULE #10

GALV. SCH. #10 SYS. MAINS: SCHEDULE 10 GALVANIZED STEEL PIPE "SHOP CUT" TO THE LENGTHS INDICATED ON THE PLAN, SHOP ROLL GROOVED AT BOTH ENDS, SHOP WELDED OUTLETS IF APPLICABLE, FIELD JOINED WITH GROOVED FITTINGS AND COUPLINGS UNLESS OTHERWISE NOTED.

GALV. SCHEDULE #40

GALV. SCH. #40 BR. LINES: SCHEDULE 40 GALVANIZED STEEL PIPE "SHOP CUT" TO THE LENGTHS INDICATED ON THE PLAN, SHOP THREADED AT BOTH ENDS, FIELD JOINED WITH MALLEABLE IRON SCREWED BODY FITTINGS UNLESS OTHERWISE NOTED.

FIRE ALARM SYSTEM NOTE: TAMPER SWITCHES HAVE BEEN PROVIDED ON ALL PRIMARY CONTROL VALVES. THESE SWITCHES MUST BE CONNECTED TO THE FIRE ALARM SYSTEM PER NFPA 72. ALSO, THE WATER FLOW DETECTING SWITCH SHALL ACTIVATE THE FIRE ALARM SYSTEM. ALL WIRING AND FIRE ALARM SYSTEMS TO BE SUPPLIED AND INSTALLED BY "OTHERS".

COMBUSTIBLE CONSTRUCTION: THE GENERAL CONTRACTOR WILL NOT ALLOW COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING. IF COMBUSTIBLE CONSTRUCTION IS USED ABOVE THE CEILING ON THIS PROJECT, ABOVE THE CEILING SPRINKLER PROTECTION WILL NEED TO BE ADDED AND THIS IS NOT IN THE CONTRACT.

STD. SYSTEM HANGER NOTES: PIPE HANGERS SHALL BE SIZED, SPACED, AND INSTALLED AS REQUIRED BY THE NFPA #13 STANDARDS. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER HANGING SYSTEM UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED FOR THE ADDITIONAL LOADING. THIS CONTRACTOR DOES NOT INCLUDE THE MATERIAL OR DEVICES TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM. SEE THE DETAILS ON PLANS FOR SPECIFIC HANGER ASSEMBLIES USED FOR THIS INSTALLATION PROJECT.

HANGER SPACING PER NFPA 13, 2016 EDITION TABLE 9.2.2.1(A) MAXIMUM DISTANCE BETWEEN HANGERS (FT. – IN.)												
PIPE TYPE	3/4	1	1–1/4	1–1/2	2	NOMINAL PIPE SIZE (IN.)						
						2–1/2	3	3–1/2	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12–0	12–0	15–0	15–0	15–0	15–0	15–0	15–0	15–0	15–0	15–0

F.D.C. NOTE FOR FITTERS: FIRE DEPARTMENT CONNECTIONS SHALL BE ON THE STREET SIDE OF BUILDINGS AND SHALL BE LOCATED AND ARRANGED SO THAT HOSE LINES CAN BE READILY AND CONVENIENTLY ATTACHED TO THE INLETS WITHOUT INTERFERENCE FROM ANY NEARBY OBJECTS. WHEN THE FDC SERVICES ONLY A PORTION OF A BUILDING, A SIGN SHALL BE ATTACHED INDICATING THE PORTIONS OF THE BUILDING SERVED. NFPA RECOMMENDS THAT THE FDC BE LOCATED NOT LESS THAN 18" AND NOT MORE THAN 48" ABOVE FINISHED EXTR. GRADE.

APPROVAL OF SPRINKLER SYS & PRIVATE FIRE SERVICE MAINS: (NFPA 13 – 2016, SECTION 25.1) THE INSTALLING CONTRACTOR SHALL DO THE FOLLOWING:

- 1) NOTIFY AUTHORITY HAVING JURISDICTION & OWNER'S REPRESENTATIVE OF THE TIME & DATE TESTING WILL BE PERFORMED
- 2) PERFORM ALL REQUIRED ACCEPTANCE TESTS (SEE SECTION 25.2)
- 3) COMPLETE AND SIGN THE APPROPRIATE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S) (SEE FIGURE 25.1)
- 4) REMOVE ALL CAPS AND STRAPS PRIOR TO PLACING THE SPRINKLER SYSTEM IN SERVICE.

SYSTEM HYDROSTATIC TEST – (NFPA 13 – 2016, SECTION 25.2.1) UNLESS PERMITTED BY 25.2.1.2 THROUGH 25.2.1.5, ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI (13.8 BAR) AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.

- 25.2.1.2 PORTIONS OF SYSTEMS NORMALLY SUBJECTED TO SYSTEM WORKING PRESSURES IN EXCESS OF 150 PSI (10.3 BAR) SHALL BE TESTED AS DESCRIBED IN 25.2.1.1 AT A PRESSURE OF 50 PSI (3.4 BAR) IN EXCESS OF SYSTEM WORKING PRESSURE.
- 25.2.1.3 WHERE COLD WEATHER WILL NOT PERMIT TESTING WITH WATER, AN INTERIM AIR TEST SHALL BE PERMITTED TO BE CONDUCTED AS DESCRIBED IN 25.2.2. THIS PROVISION SHALL NOT REMOVE OR REPLACE THE REQUIREMENT FOR CONDUCTING THE HYDROSTATIC TEST AS DESCRIBED IN 25.2.1.1.
- 25.2.1.4 MODIFICATIONS TO EXISTING PIPING SYSTEMS SHALL REQUIRE TESTING AT SYSTEM WORKING PRESSURE.
- 25.2.1.4.1 WHERE MODIFICATION IS MADE TO AN EXISTING SYSTEM AFFECTING MORE THAN 20 SPRINKLERS, THE NEW PORTION SHALL BE ISOLATED AND TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS.
- 25.2.1.4.2 MODIFICATIONS THAT CAN NOT BE ISOLATED, SUCH AS RELOCATED DROPS, SHALL REQUIRE TESTING AT SYSTEM WORKING PRESSURE.
- 25.2.1.5 THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE SYSTEM OR PORTION BEING TESTED. THE PRESSURES IN PIPING AT HIGHER ELEVATIONS SHALL BE PERMITTED TO BE LESS THAN 200 PSI (13.8 BAR) WHEN ACCOUNTING FOR ELEVATION LOSSES. SYSTEMS OR PORTIONS OF SYSTEMS THAT CAN BE ISOLATED SHALL BE PERMITTED TO BE TESTED SEPARATELY.
- 25.2.1.6 ADDITIVES, CORROSIVE CHEMICALS SUCH AS SODIUM SILICATE, OR DERIVATIVES OF SODIUM SILICATE, BRINE, OR SIMILAR ACTING CHEMICALS SHALL NOT BE USED WHILE HYDROSTATICALLY TESTING SYSTEMS OR FOR STOPPING LEAKS.
- 25.2.1.7 PIPING BETWEEN THE EXTERIOR FIRE DEPARTMENT CONNECTION AND THE CHECK VALVE IN THE FIRE DEPARTMENT INLET PIPE SHALL BE HYDROSTATICALLY TESTED IN THE SAME MANNER AS THE BALANCE OF THE SYSTEM. AFTER REPAIR OR REPLACEMENT WORK AFFECTING THE FIRE DEPARTMENT CONNECTION, THE PIPING BETWEEN THE EXTERIOR AND THE CHECK VALVE IN THE FIRE DEPARTMENT INLET PIPE SHALL BE ISOLATED AND HYDROSTATICALLY TESTED AT 150 PSI (10.3 BAR)
- 25.2.1.8 WHEN SYSTEMS ARE BEING HYDROSTATICALLY TESTED, TESTS SHALL BE PERMITTED TO BE CONDUCTED WITH PENDENT OR HORIZONTAL SIDEWALL SPRINKLERS OR PLUGS INSTALLED IN FITTINGS. ANY PLUGS SHALL BE REPLACED WITH PENDENT OR HORIZONTAL SIDEWALL SPRINKLERS AFTER THE TEST IS COMPLETED.
- 25.2.1.9 WHEN DELUGE SYSTEMS ARE BEING HYDROSTATICALLY TESTED, PLUGS SHALL BE INSTALLED IN FITTINGS AND REPLACED WITH OPEN SPRINKLERS AFTER THE TEST IS COMPLETED, OR THE OPERATING ELEMENTS OF AUTOMATIC SPRINKLERS SHALL BE REMOVED AFTER THE TEST IS COMPLETED.
- 25.2.1.10 PROVISIONS SHALL BE MADE FOR THE PROPER DISPOSAL OF WATER USED FOR FLUSHING AND TESTING.

(NFPA 20 – 2016, SECTION 14.1.2.1) SUCTION AND DISCHARGE PIPING SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI (13.8 BAR) PRESSURE OR AT 50 PSI (3.4 BAR) IN EXCESS OF THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM, WHICHEVER IS GREATER.

- 14.1.2.2 THE PRESSURE SHALL BE MAINTAINED FOR TWO HOURS.

FIRE SERVICE MAIN FLUSHING: (NFPA 13 – 2016, SECTION 10.10.2.1.1) UNDERGROUND PIPING, FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD IN CONNECTIONS TO THE SYSTEM RISER, INCLUDING ALL HYDRANTS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO DOWNSTREAM FIRE PROTECTION SYSTEM PIPING.

- 10.10.2.1.2 THE FLUSHING OPERATION SHALL CONTINUE UNTIL WATER FLOW IS VERIFIED TO BE CLEAR OF DEBRIS.
- 10.10.2.1.3 THE MINIMUM RATE OF FLOW SHALL BE IN ACCORDANCE WITH TABLE 10.10.2.1.3.
- 10.10.2.1.3.1 WHERE THE FLOW RATES ESTABLISHED IN TABLE 10.10.2.1.3 ARE NOT ATTAINABLE, THE MAXIMUM FLOW RATE AVAILABLE TO THE SYSTEM SHALL BE ACCEPTABLE.
- 10.10.2.1.4 PROVISION SHALL BE MADE FOR THE PROPER DISPOSAL OF WATER USED FOR FLUSHING OR TESTING.

(NFPA 20 – 2016, SECTION 14.1.1.1) SUCTION PIPING SHALL BE FLUSHED AT A FLOW RATE NOT LESS THAN INDICATED IN TABLE 14.1.1.1 OR AT THE HYDRAULICALLY CALCULATED WATER DEMAND RATE OF THE SYSTEM, WHICHEVER IS GREATER. {14.1.3} THE INSTALLING CONTRACTOR SHALL FURNISH A CERTIFICATE FOR FLUSHING AND HYDROSTATIC TEST PRIOR TO THE START OF THE FIRE PUMP FIELD ACCEPTANCE TEST

NFPA 13 – 2016, TABLE 10.10.2.1.3 VELOCITY = 10 FT/SEC.		NFPA 20 – 2016, TABLE 14.1.1.1	
PIPE SIZE	FLOW RATE	NOMINAL PIPE SIZE	FLOW RATE
2 IN. (50 MM)	100 GPM (379 L/MIN.)	1 1/2 IN. (38 MM)	85 GPM (345 L/MIN.)
2 1/2 IN. (65 MM)	150 GPM (568 L/MIN.)	2 IN. (50 MM)	150 GPM (540 L/MIN.)
3 IN. (75 MM)	220 GPM (833 L/MIN.)	3 IN. (75 MM)	330 GPM (1380 L/MIN.)
4 IN. (100 MM)	380 GPM (1500 L/MIN.)	4 IN. (100 MM)	580 GPM (2210 L/MIN.)
5 IN. (125 MM)	610 GPM (2300 L/MIN.)	5 IN. (125 MM)	920 GPM (3490 L/MIN.)
6 IN. (150 MM)	880 GPM (3350 L/MIN.)	6 IN. (150 MM)	1380 GPM (4850 L/MIN.)
8 IN. (200 MM)	1560 GPM (5900 L/MIN.)	8 IN. (200 MM)	2350 GPM (8900 L/MIN.)
10 IN. (250 MM)	2440 GPM (9250 L/MIN.)	10 IN. (250 MM)	3670 GPM (13900 L/MIN.)
12 IN. (300 MM)	3520 GPM (13300 L/MIN.)	12 IN. (300 MM)	5290 GPM (20030 L/MIN.)

LIGHT HAZARD OCCUPANCIES: LIGHT HAZARD OCCUPANCIES SHALL BE OCCUPANCIES OR PORTIONS OF OTHER OCCUPANCIES WHERE THE QUANTITY AND/OR COMBUSTIBILITY OF CONTENTS IS LOW AND FIRES WITH RELATIVELY LOW RATES OF HEAT RELEASES ARE EXPECTED.

ORD. HAZARD OCCUPANCIES: ORDINARY HAZARD (GROUP 1) OCCUPANCIES SHALL BE DEFINED AS OCCUPANCIES OR PORTIONS OF OTHER OCCUPANCIES WHERE COMBUSTIBILITY IS LOW, QUANTITY OF COMBUSTIBLES IS MODERATE, STOCKPILES OF COMBUSTIBLES DO NOT EXCEED 8 FT. (2.4 M), AND FIRES WITH MODERATE RATES OF HEAT RELEASE ARE EXPECTED.

ORDINARY HAZARD (GROUP 2) OCCUPANCIES SHALL BE DEFINED AS OCCUPANCIES OR PORTIONS OF OTHER OCCUPANCIES WHERE QUANTITY AND THE COMBUSTIBILITY OF CONTENTS IS MODERATE TO HIGH, WHERE STOCKPILES OF CONTENTS WITH MODERATE TO HIGH RATES OF HEAT RELEASE DO NOT EXCEED 12 FT. (3.7 M), AND STOCKPILES OF CONTENTS WITH HIGH RATES OF HEAT RELEASE DO NOT EXCEED 8 FT. (2.4 M).

COORDINATION NOTE

This Plan Is NOT To Be Used For System Installation; It Is To Be Used For COORDINATION And DESIGN APPROVAL Purposes ONLY. Following Coordination, The Pipe Fabrication Details, Hanger Locations, And All Thread Rod Cut Lengths Shall Be Added To This Plan. The Final Set Of Plans Will Be Marked "AS-BUILT".

CAUTION

THIS SYSTEM IS EQUIPPED WITH DRAINS WHICH REQUIRE REGULAR OWNER MAINTENANCE, PER NFPA STANDARDS

SEISMIC BRACING NOTES

THIS SYSTEM IS DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 – 2016 EDITION

WHERE PIPING PASSES THROUGH WALLS, PLATFORMS, MEZZANINES, ROOFS, OR FLOORS PROVIDE A HOLE OR SLEEVE WITH A NOMINAL DIAMETER 2" LARGER FOR 1" – 3" PIPES, 4" LARGER FOR PIPES 4" AND LARGER. CLEARANCE IS NOT NEEDED WHEN WALL MATERIAL IS FRANGIBLE AND THE WALL DOES NOT HAVE A FIRE RATING.

CLEARANCE IS NOT REQUIRED WHERE FLEXIBLE COUPLINGS ARE PROVIDED WITHIN 12" OF EACH SIDE OF THE WALL OR FLOOR.

BRANCHLINE RESTRAINT WILL BE PROVIDED ON ALL BRANCHLINES WHERE THE HANGER ROD IS GREATER THAN 6" FROM THE TOP OF THE PIPE TO THE POINT OF ATTACHMENT. RESTRAINTS WILL BE PROVIDED WITHIN 24" OF A HANGER AND WITHIN 6" OF THE END OF THE BRANCHLINE.

SPACING AND CONFIGURATION OF SEISMIC BRACING IS DESIGNED USING THE "ZONE OF INFLUENCE METHOD"

SEE SEISMIC LOAD CALCULATIONS INCLUDED IN SUBMITTAL DOCUMENTS.

LAT INDICATES THE LOCATION OF LATERAL SWAY BRACING – SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LATERAL BRACING WILL BE PROVIDED WITHIN 6" OF THE END OF THE PIPE, WITHIN 2' OF THE END OF ANY HORIZONTAL MANIFOLD PIPING LONGER THAN 6', AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

LONG INDICATES THE LOCATION OF LONGITUDINAL SWAY BRACING – SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LONGITUDINAL BRACING WILL BE PROVIDED WITHIN 40" OF THE END OF THE PIPE, AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

4-WAY INDICATES THE LOCATION OF 4-WAY SWAY BRACING – SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 24" OF THE CENTERLINE OF VERTICAL PIPE. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

BRST INDICATES THE LOCATION OF BRANCH LINE RESTRAINT – SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.

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△	06/27/22	AS-BUILT
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REVISION HISTORY

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GENERAL NOTES

IF DRAWING IS PLOTTED CORRECTLY THIS BAR SHOULD MEASURE 2"

	DESIGN BY:	IBRAHIM SULEIMAN
	PROJECT MANAGER:	DAVID KOERNER
	DATE:	10/9/2020
	CONTRACT NO.:	2846

FABRICATION DOCUMENTS

FP-003

"AS-BUILTS"

06-27-2022

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△		
△		
△		
△	06/27/21	ASBUILT
△	02/26/21	FABRICATION DOCUMENTS
△	01/18/21	FABRICATION DOCUMENTS
△	11/23/20	SUBMITTAL DOCUMENTS
△	10/09/20	SUBMITTAL DOCUMENTS
REV	DATE	ISSUANCE DESCRIPTION
REVISION HISTORY		
AUTOMATIC SPRINKLER DESIGN BASED ON THE FOLLOWING STANDARDS:		
□	NFPA 13 - 2016	□
□		□
□		□



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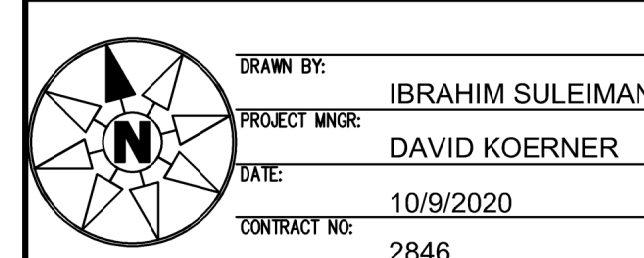
J. F. AHERN CO.
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 www.jfahern.com

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 1717 E CHISHOLM DR.
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 PH: (208) 465-0200
 CONTACT:DEVIN GUY
 (208) 550-1708

WEST POINT DAIRY EXPANSION
 570 NORTH 500 WEST
 HYRUM, UTAH 84319

FIRE PROTECTION DETAILS

IF DRAWING IS PLOTTED CORRECTLY THIS BAR SHOULD MEASURE 2"



FABRICATION DOCUMENTS
 FP-004

TYPICAL DROP DETAIL #1
NO SCALE

DROP FROM "PENDENT" OUTLET

HARD DROPS ARE INDICATED ON THE PLAN BY THIS SYMBOL:

FLEXIBLE SPRINKLER CONNECTION DETAIL #9
NO SCALE

STRAIGHT DROP FROM "PENDENT" OUTLET

FLEX DROPS ARE INDICATED ON THE PLAN BY THIS SYMBOL:

TYPICAL HANGER #R3R
NO SCALE

1 -- SAMMY X-PRESS XP-20 (UL LISTED = 2 1/2" & SMALLER PIPE)
(FM APPROVED = UP TO 4" PIPE)

1 -- ROUND BAR W/ 2" THREADS ON EACH END

1 -- ADJUSTABLE HANGER RING

*INSTALL WITH SAMMY X-PRESS INSTALLATION TOOL ONLY

TYPICAL HANGER #R2F
NO SCALE

2 -- 1/2" x 1" #3 ZINC TEK SCREW (1/2" TO 4" PIPE)

1 -- 3/8" GALV THR SIDE BEAM BRKT

1 -- MACHINE THREAD ROD

1 -- ADJUSTABLE HANGER RING (4" MAX. PIPE SIZE)

"UL LISTED & FM APPROVED HANGER"

TYPICAL HANGER #03R
NO SCALE

1 -- SAMMY X-PRESS XP-20 (UL LISTED = 2 1/2" & SMALLER PIPE)
(FM APPROVED = UP TO 4" PIPE)

1 -- ALL THREAD ROD

1 -- ADJUSTABLE HANGER RING

*INSTALL WITH SAMMY X-PRESS INSTALLATION TOOL ONLY

DROP SUPPORT #4B
NO SCALE

1 -- ALL THREAD ROD

1 -- RISER CLAMP

2 -- SLEEVE ANCHORS W/ CPLG (MATCH ROD SIZE)

2 -- 1" GALV STEEL PIPE

PIPE SIZE	ROD SIZE
UP TO 3"	3/8"
4"-8"	1/2"
10"-12"	5/8"

TYPICAL HANGER #R1A
NO SCALE

1 -- JR. TOP BEAM CLAMP (3/8" = 1" THROUGH 4" PIPE)
(1/2" = 5" THROUGH 8" PIPE)

1 -- 12" SEISMIC RETAINING STRAP

1 -- HEX NUT (3/8" OR 1/2")

1 -- FLAT WASHER (3/8" OR 1/2")

1 -- ALL THREAD ROD (3/8" OR 1/2")

1 -- ADJUSTABLE HANGER RING

"UL LISTED & FM APPROVED HANGER"

DROP SUPPORT #5G
NO SCALE

1 -- ALL THREAD ROD

1 -- RISER CLAMP

8 -- HEX NUTS & WASHERS (MATCH ROD SIZE)

2 -- 1" GALV STEEL PIPE

PIPE SIZE	ROD SIZE
UP TO 3"	3/8"
4"-8"	1/2"
10"-12"	5/8"

TYPICAL HANGER #R3B
NO SCALE

1 -- SLEEVE ANCHOR WITH COUPLING (1" TO 4" PIPE = 3/8" X 1-7/8" ZINC SLEEVE ANCHOR W/ CPLG)
(5" TO 8" PIPE = 1/2" X 2-1/4" ZINC SLEEVE ANCHOR W/ CPLG)

1 -- ALL THREAD ROD

1 -- ADJUSTABLE HANGER RING

"UL LISTED & FM APPROVED HANGER"

TRAPEZE HANGER DETAIL #3A
NO SCALE

1 -- 3" SCH 10 PIPE LENGTH = (5'-6") WITH ATR WELDED ON EACH END

2 -- JR. BEAM CLAMPS

3 -- HD 5" ADJUSTABLE HANGER RING WITH 1/2" INSERT NUT

1 -- ALL THREAD ROD

1 -- ADJUSTABLE HANGER RING

1 -- 8" ADJUSTABLE HANGER RING WITH 1/2" INSERT NUT

2 -- 10" RETAINING STRAP

"TRAPEZE HANGER SIZED PER NFPA #13 TABLES"

TYPICAL SPRIG DETAIL #SP01A
NO SCALE

1 -- UPRIGHT SPRINKLER HEAD

1" x 1" THREADED REDUCER

1" SCH 40 SPRIG, SEE PLAN FOR LENGTH

MAIN OR BRANCHLINE

"UL LISTED & FM APPROVED HANGER"

TYPICAL HANGER #R1D
NO SCALE

1 -- ROUND BAR W/ 1.5" THREADS ON EACH END

1 -- ADJUSTABLE HANGER RING

"UL LISTED & FM APPROVED HANGER"

VICTAULIC VIC-FLEX SPRINKLER FITTINGS
 SERIES AH2 BRAIDED FLEXIBLE HOSE

FLEXIBLE HOSE IN-PLANE BEND CHARACTERISTICS

ONE BEND

TWO BENDS

THREE BENDS

NOTE: FOR OUT OF PLANE (THREE-DIMENSIONAL) BENDS - CARE MUST BE TAKEN TO AVOID IMPARTING TORSIONAL STRESS ON THE HOSE

FRICTION LOSS DATA

MODEL/TYPE: SERIES AH2 BRAIDED HOSE

OUTLET SIZE: 1/2"

K-FACTOR: 5.6K

LENGTH OF STAINLESS STEEL HOSE: 48"

EQUVALENT LENGTH OF 1" SCH. 40 PIPE: 32"

MAXIMUM NUMBER OF 90° BENDS: 8

MINIMUM BEND RADIUS: 2"

GENERAL INFORMATION

BRACKETS

☐ STYLE AB1 FOR SUSPENDED & HARD LID CEILINGS

☐ STYLE AB3 FOR SURFACE MOUNT, WOOD, METAL & BLOCK

☐ STYLE AB7 FOR SUSPENDED & HARD LID CEILINGS

☒ STYLE AB7 ADJUSTABLE FOR SUSPENDED & HARD LID CEILINGS

DATA SHEET: SEE VICTAULIC DATASHEET 10.25 FOR DETAILED DESIGN, INSTALLATION, HANDLING, & APPROVAL INFORMATION

"WET" AUX. DRAIN CONN. #D03A
NO SCALE

INSTALL: (1) AUX. DRAIN VALVE SIGN
(1) 12" SIGN CHAIN

AUX. DRAINS ARE INDICATED ON THE PLAN BY THIS SYMBOL:

AIR VENT DETAIL #V01C
NO SCALE

1/2" AIR VENT MUST ATTACH TO THE "HIGHEST" POINT OF THE BRANCHLINE TO ALLOW FOR REMOVAL OF AIR FROM SYSTEM PIPING.

1/2" BLK THREADED PLUG

1/2" BRASS BALL VALVE (1/4 TURN)

1" x 1/2" BLK THREADED REDUCING 90° ELBOW

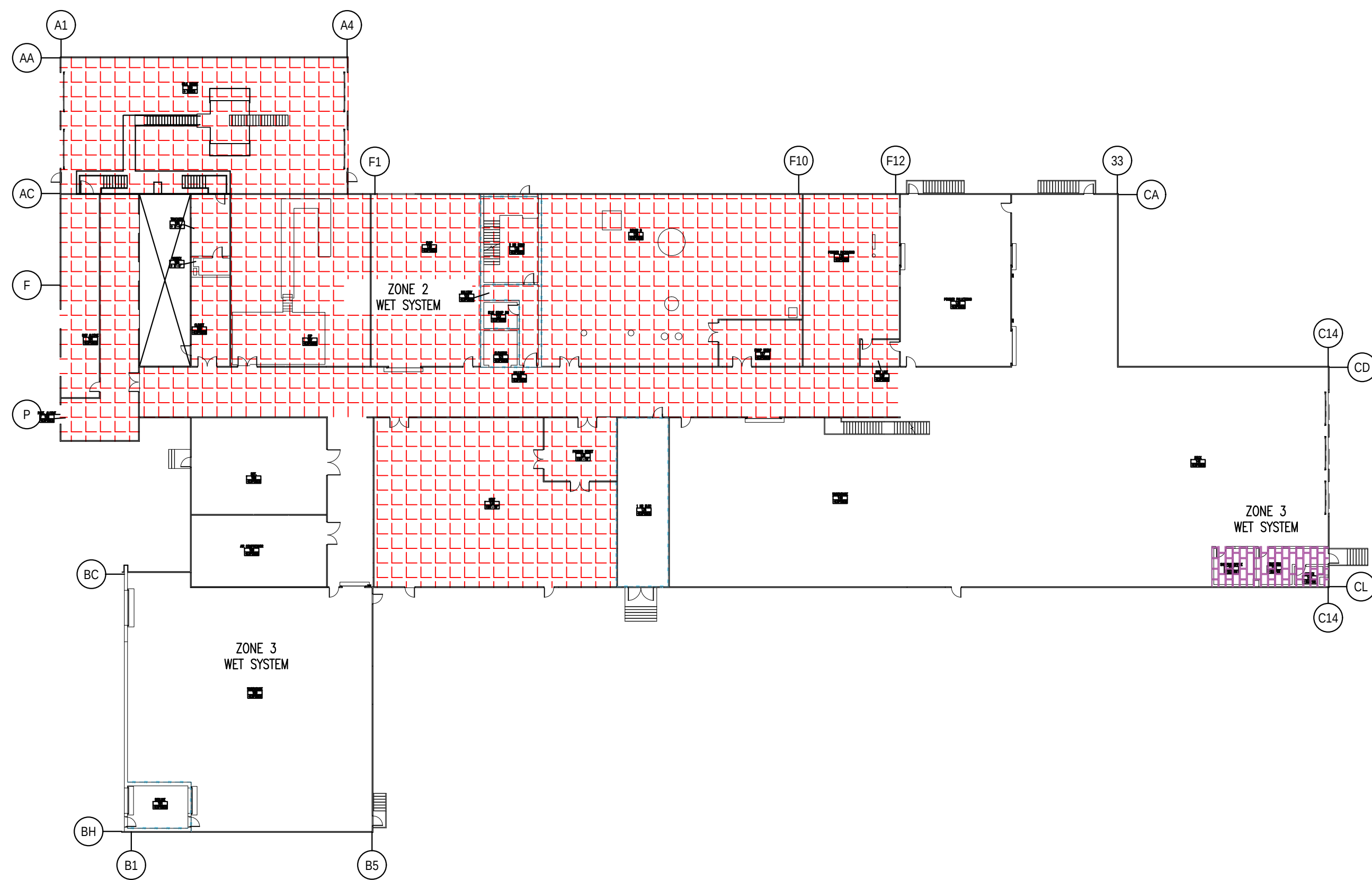
1/2" x 0'-2" BLK SCH 40 NIPPLE

1" x 0'-2" BLK SCH 40 NIPPLE

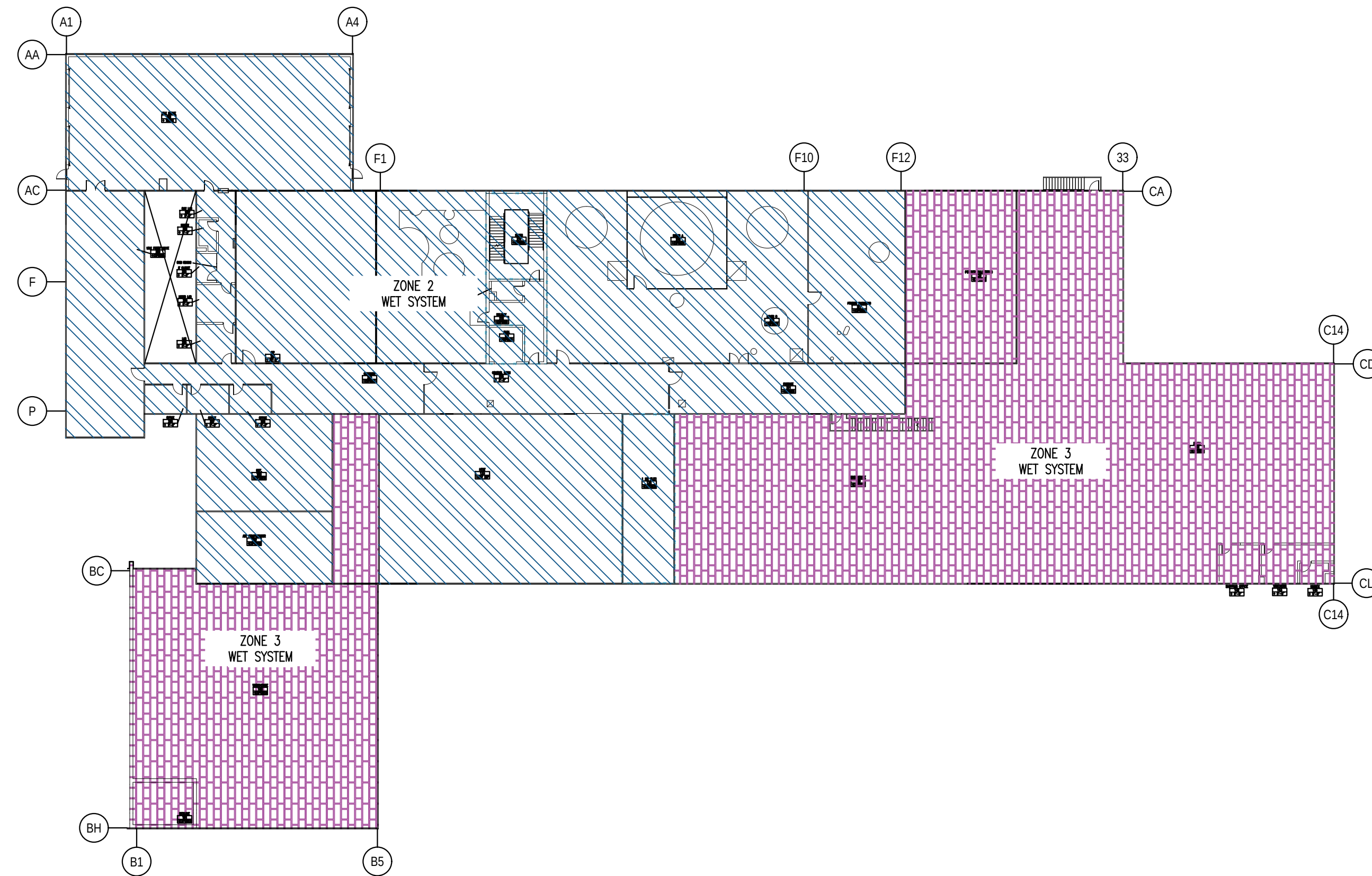
GROOVED DRAIN CAP

HIGHEST BRANCHLINE

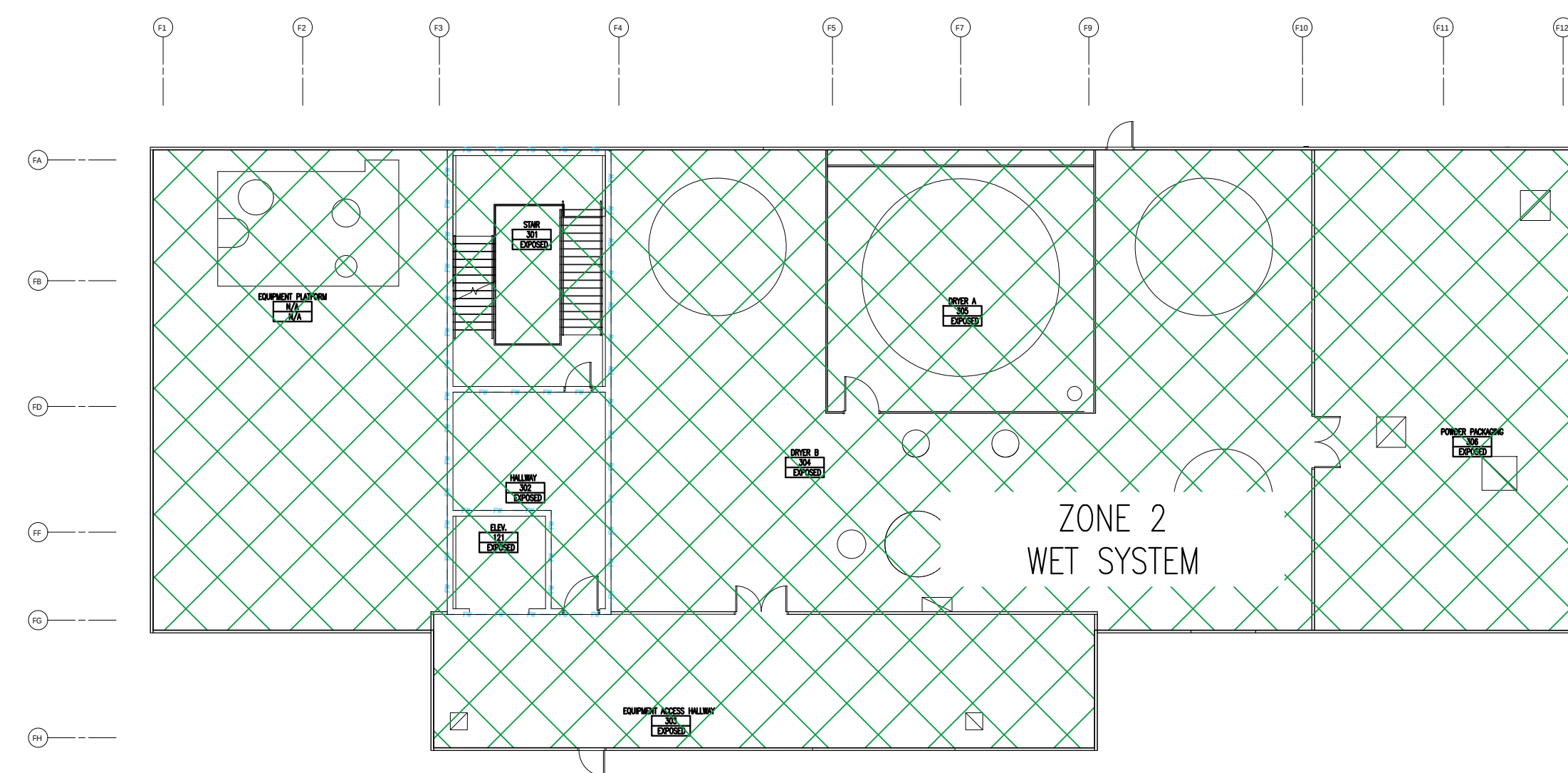
AUX. DRAINS ARE INDICATED ON THE PLAN BY THIS SYMBOL:



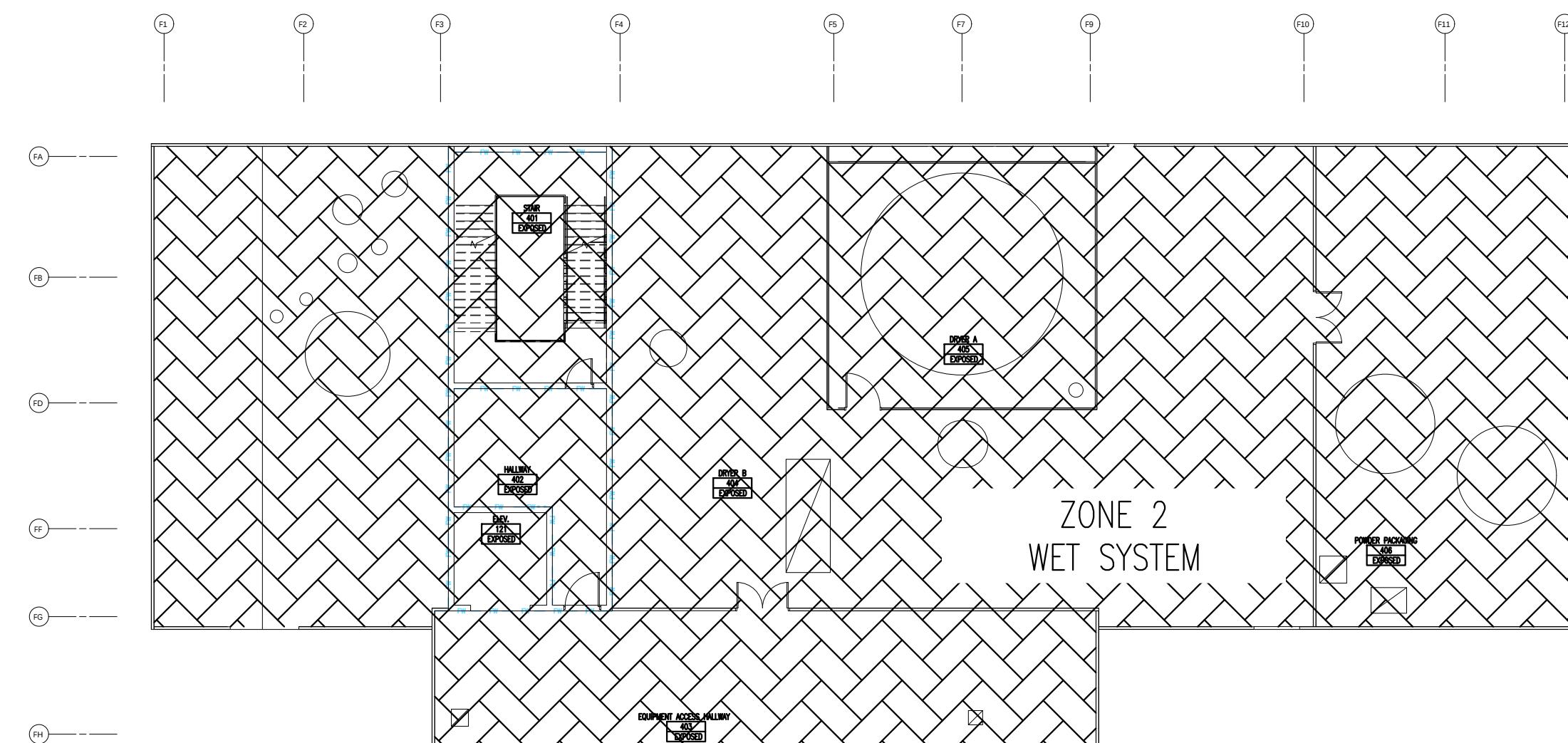
1 1st FLOOR ZONE MAP
FP-005
GRAPHIC SCALE:
1/16" = 1'-0"



2 2nd FLOOR ZONE MAP
FP-005
GRAPHIC SCALE:
1/16" = 1'-0"

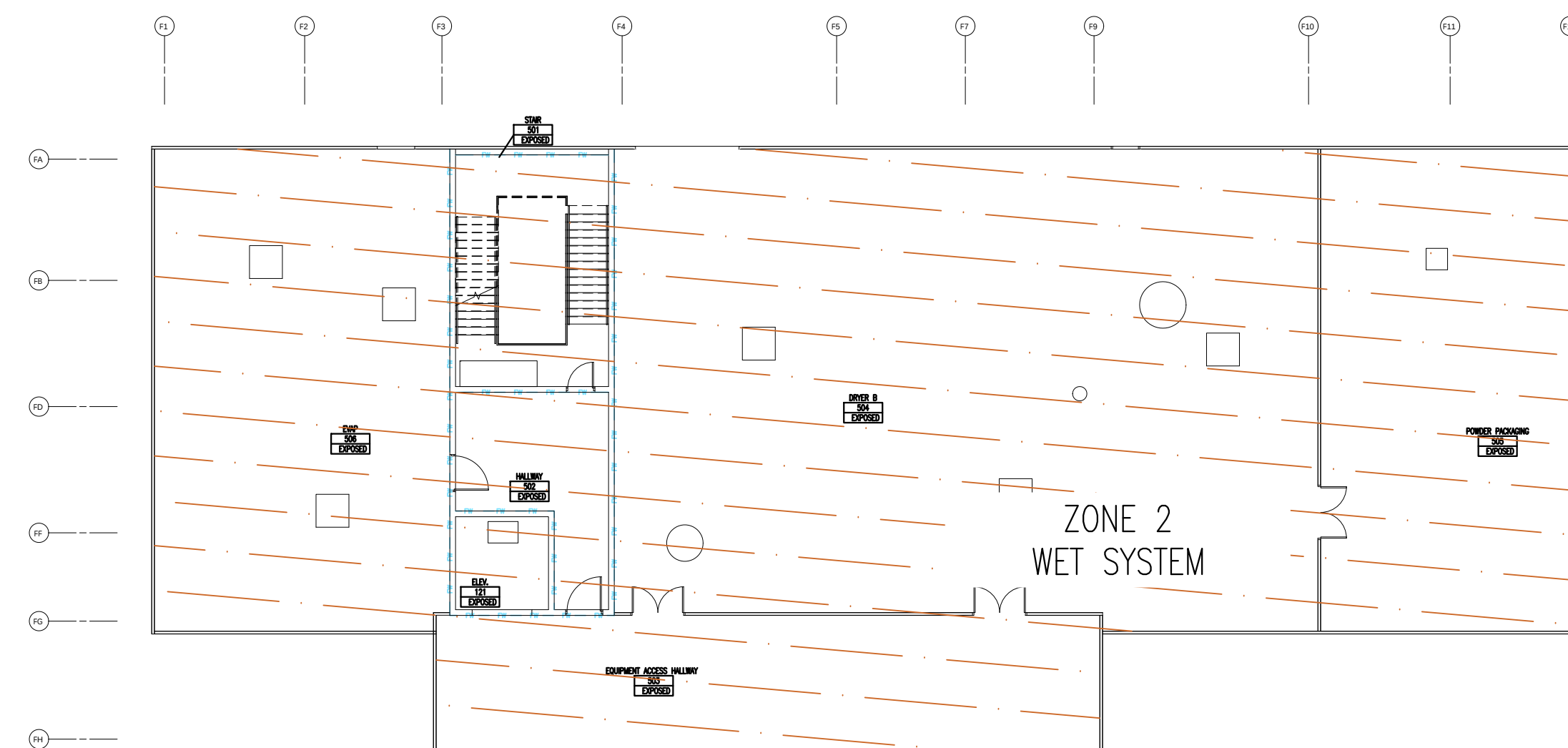


3 3rd FLOOR ZONE MAP
FP-005
GRAPHIC SCALE:
1/16" = 1'-0"



4 4th FLOOR ZONE MAP
FP-005
GRAPHIC SCALE:
1/16" = 1'-0"

	SYSTEM 2 - ZONE 6 WET SYSTEM TOTAL SYSTEM AREA = 10,300 SQ FT TOTAL SPRINKLERS = 109
	SYSTEM 2 - ZONE 5 WET SYSTEM TOTAL SYSTEM AREA = 10,300 SQ FT TOTAL SPRINKLERS = 99
	SYSTEM 2 - ZONE 4 WET SYSTEM TOTAL SYSTEM AREA = 10,300 SQ FT TOTAL SPRINKLERS = 93
	SYSTEM 2 - ZONE 3 WET SYSTEM TOTAL SYSTEM AREA = 29,000 SQ FT TOTAL SPRINKLERS = 218
	SYSTEM 3 - ZONE 2 WET SYSTEM TOTAL SYSTEM AREA = 32,500 SQFT APPROXIMATELY TOTAL SPRINKLERS = 261
	SYSTEM 2 - ZONE 1 WET SYSTEM TOTAL SYSTEM AREA = 26,000 SQ FT TOTAL SPRINKLERS = 175

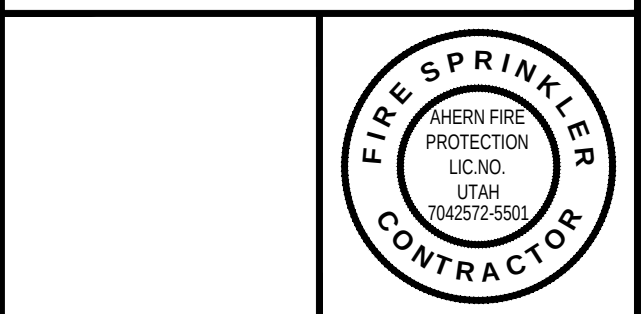


5 5th FLOOR ZONE MAP
FP-005
GRAPHIC SCALE:
1/16" = 1'-0"

"AS-BUILTS"
03/25/2022

REV	DATE	ISSUANCE DESCRIPTION
1	3/25/22	AS-BUILTS

REV	DATE	ISSUANCE DESCRIPTION
1	3/25/22	AS-BUILTS



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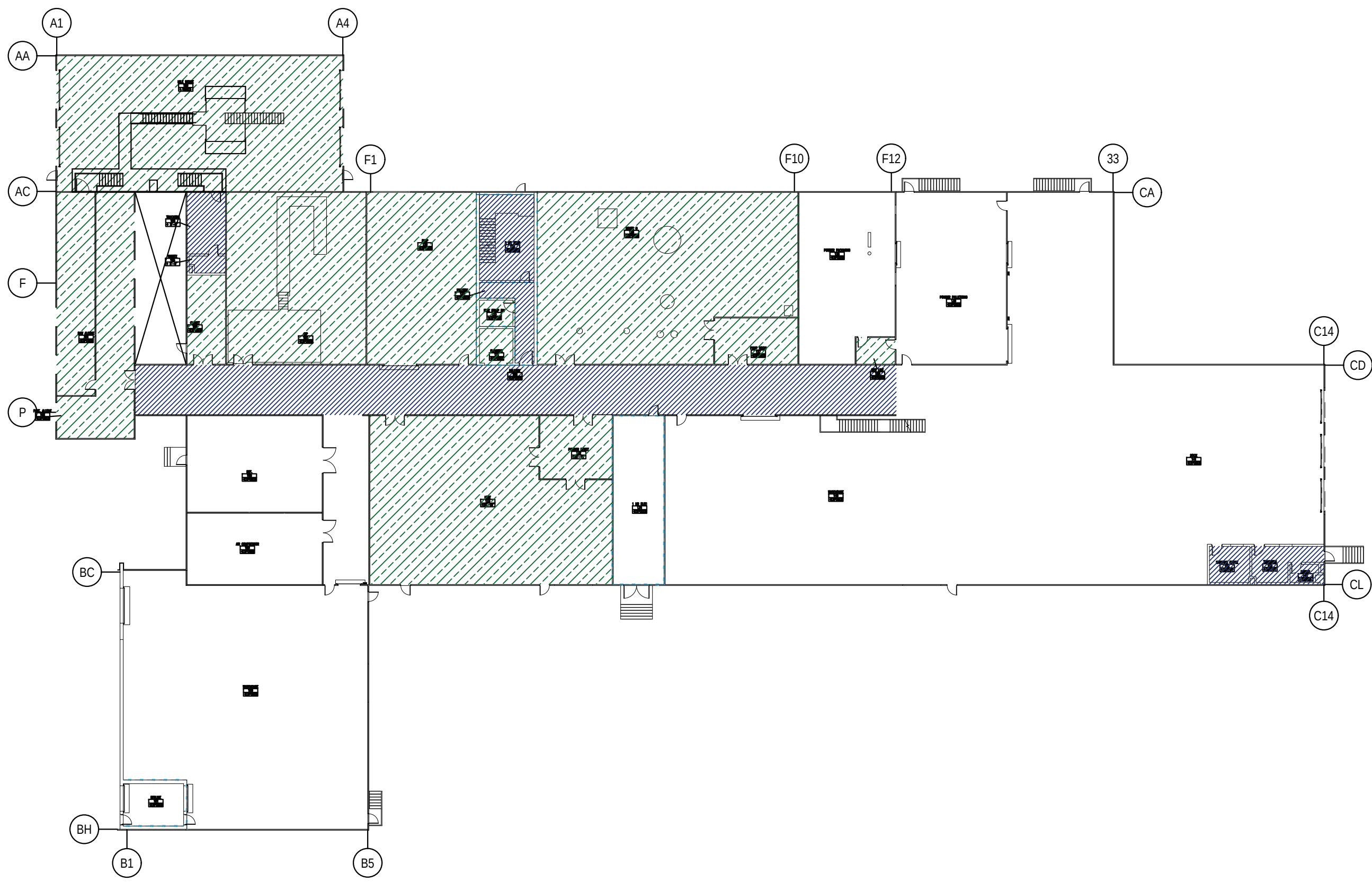
ZONE PLAN

IF DRAWING IS PLOTTED CORRECTLY
THIS BAR SHOULD MEASURE 2"

DRAWN BY:	IBRAHIM SULEIMAN
PROJECT MGR:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO:	2846

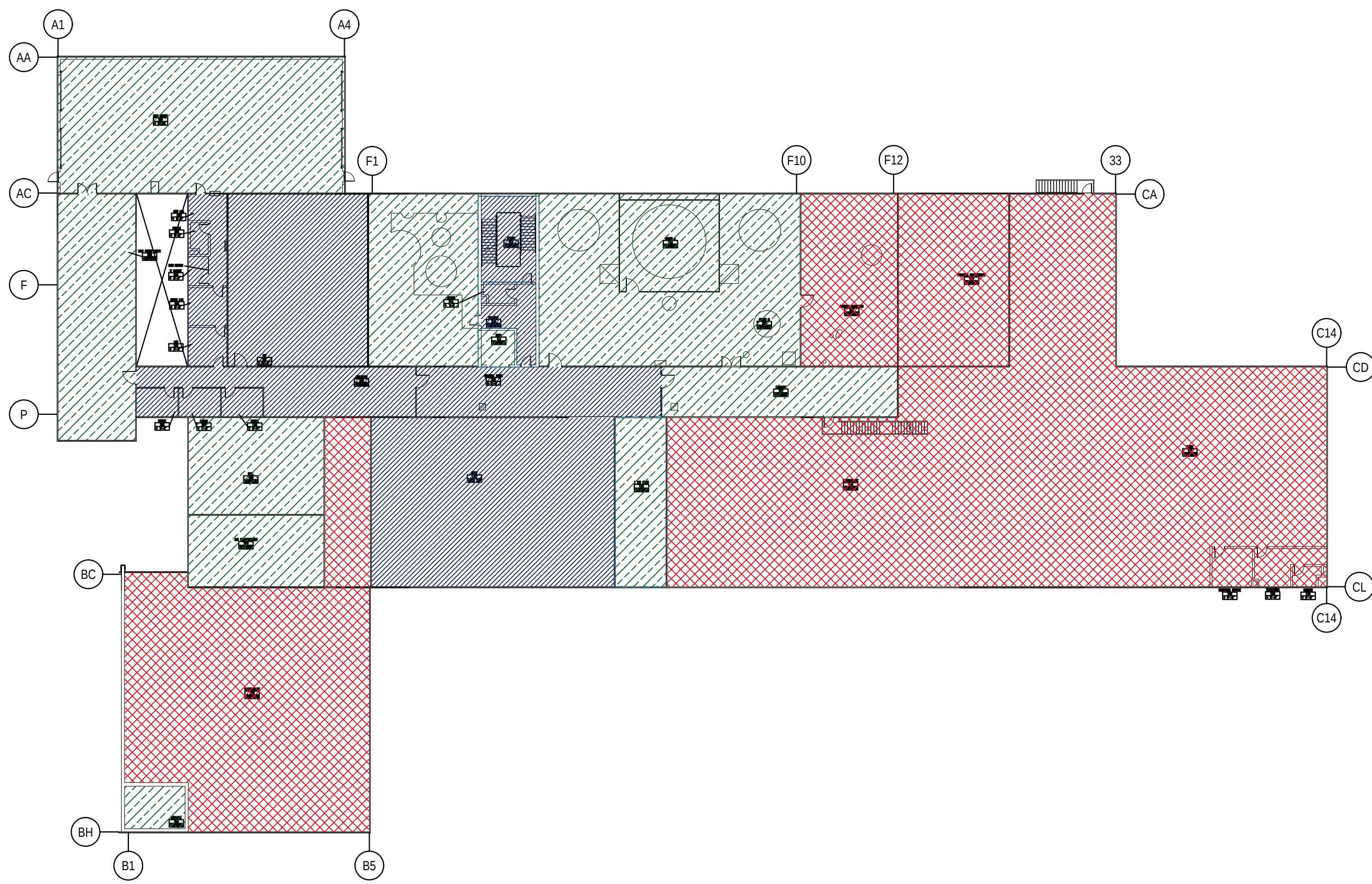
AS-BUILT DOCUMENTS

FP-005



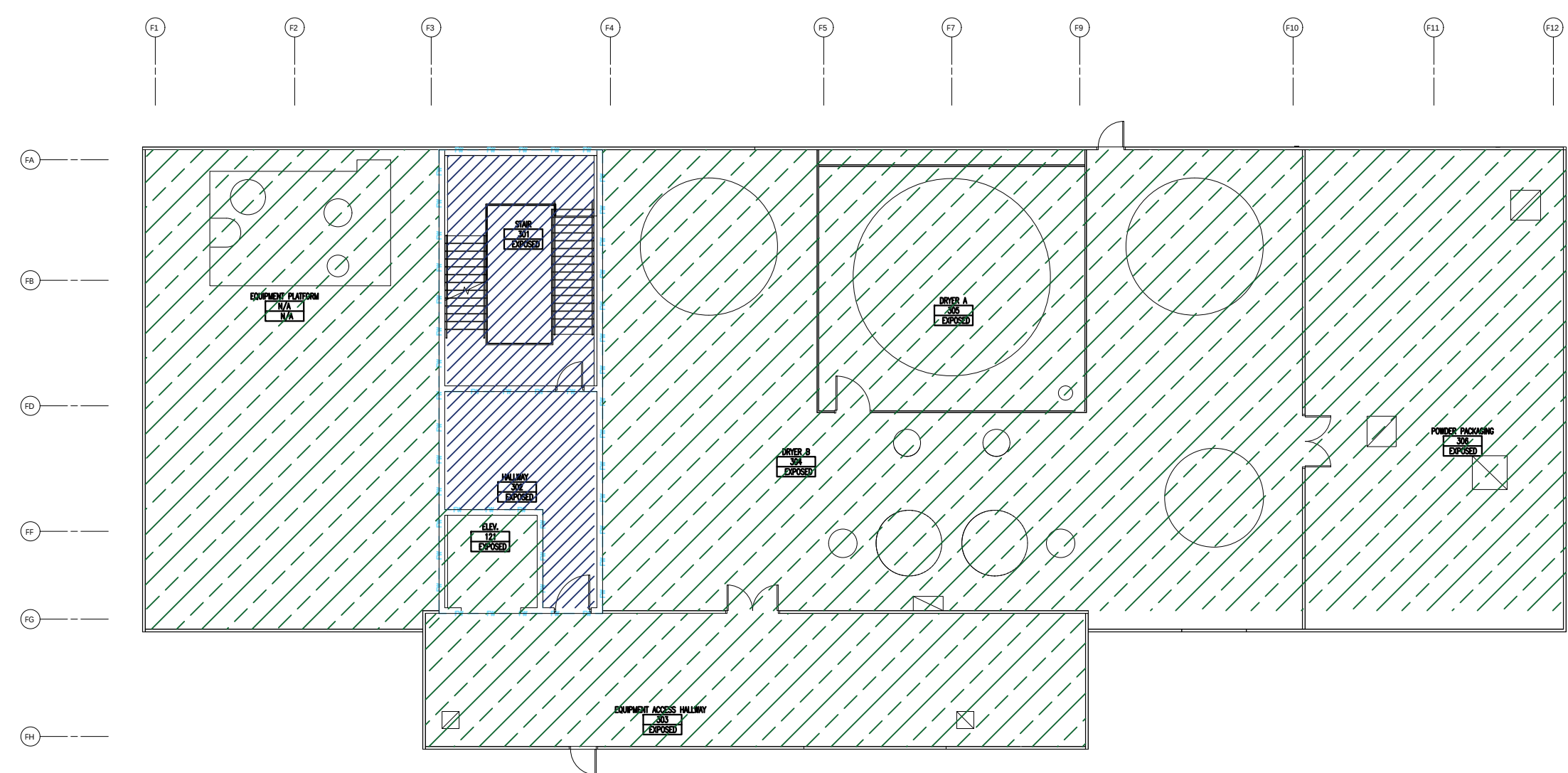
1 1st FLOOR HAZARD PLAN
FP-006

GRAPHIC SCALE:
1/32" = 1'-0"



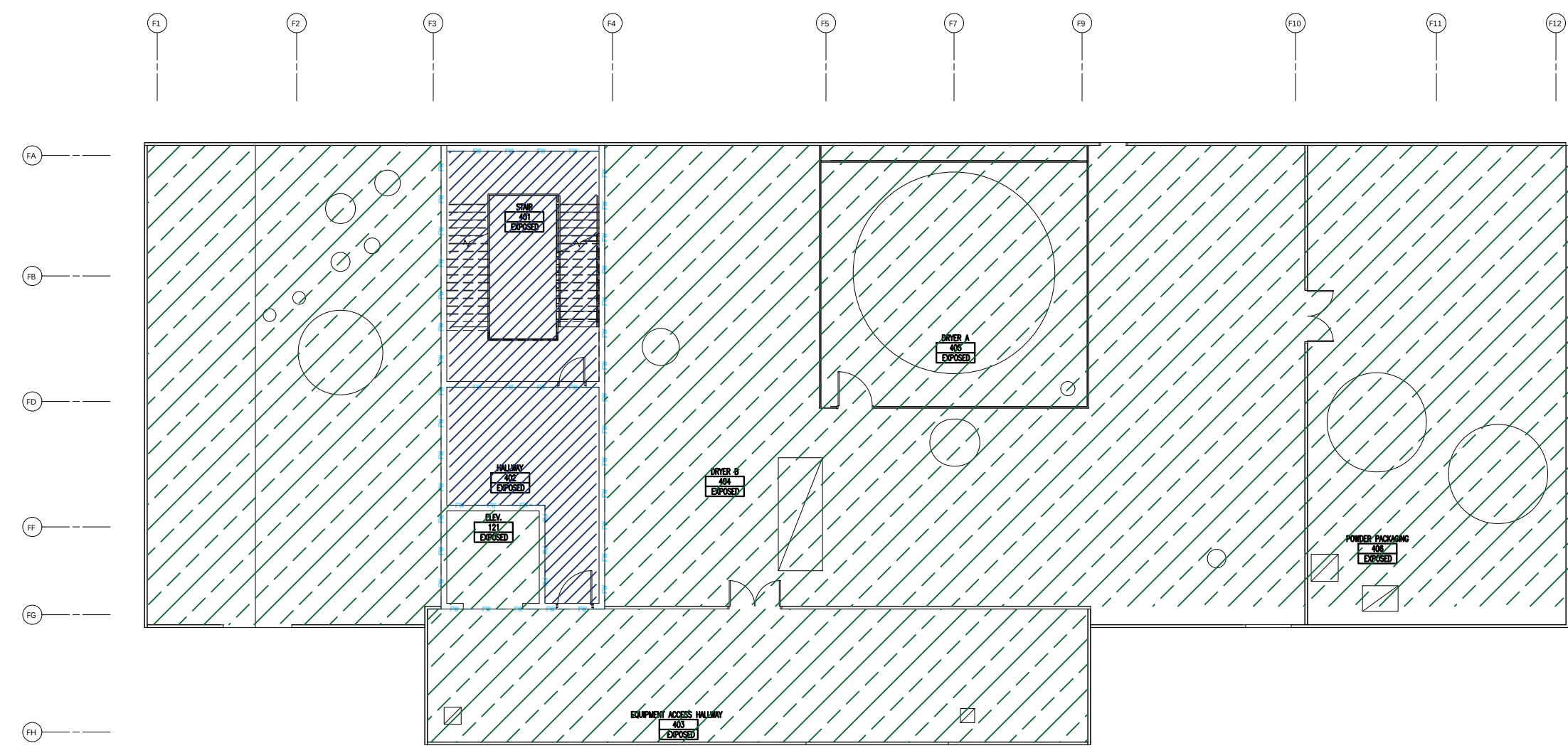
2 2nd FLOOR HAZARD PLAN
FP-006

GRAPHIC SCALE:
1/32" = 1'-0"



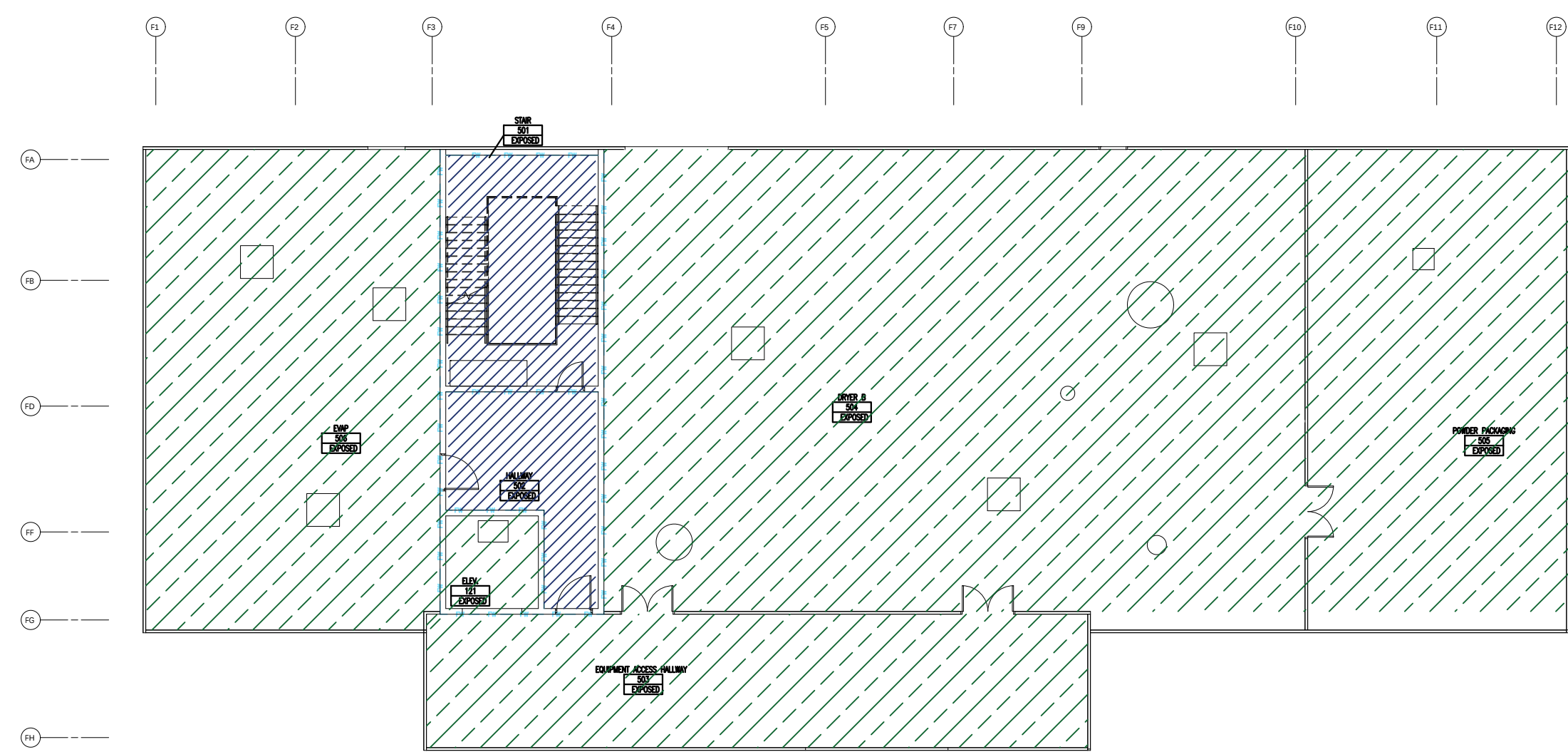
3 3rd FLOOR HAZARD PLAN
FP-006

GRAPHIC SCALE:
1/16" = 1'-0"



4 4th FLOOR HAZARD PLAN
FP-006

GRAPHIC SCALE:
1/16" = 1'-0"



5 5th FLOOR HAZARD PLAN
FP-006

GRAPHIC SCALE:
1/16" = 1'-0"

LIGHT HAZARD OCCUPANCIES	
SYSTEM TYPE	NET
SYSTEM PIPING CONFIGURATION	REE
CODE	NFPA 13 - 2016 EDITION
OCCUPANCY	LIGHT HAZARD
CODE REFERENCE/SECTION FOR BASIS OF DESIGN	FIGURE 11.2.3.1.1
BASE DENSITY REQUIRED	0.10 GPM/SQ FT
BASE AREA OF OPERATION	1,500 SQ FT
FINAL DESIGN CRITERIA	0.10 GPM/SQ FT OVER 1,500 SQ FT
HOSE STREAM ALLOWANCE	100 GPM (TABLE 11.2.3.1.2)
WATER SUPPLY	CITY SUPPLY
SPACING PER SPRINKLER	225 SQ FT MAX 6'-0" MIN 15'-0" MAX
K-FACTOR	5.6K
SPRINKLER RESPONSE TIME	QUICK RESPONSE
SPRINKLER TEMP RATING	155 T & 165 T
SPRINKLER ORIENTATION	FUSIBLE LINK UPRIGHT, PENDANT OR SEMI-RECESSED PENDANT

ORDINARY GROUP I	
SYSTEM TYPE	NET
SYSTEM PIPING CONFIGURATION	REE
CODE	NFPA 13 - 2016 EDITION
OCCUPANCY	ORDINARY GROUP I
CODE REFERENCE/SECTION FOR BASIS OF DESIGN	FIGURE 11.2.3.1.1
BASE DENSITY REQUIRED	0.15 GPM/SQ FT
BASE AREA OF OPERATION	1,500 SQ FT
FINAL DESIGN CRITERIA	0.15 GPM/SQ FT OVER 1,500 SQ FT
HOSE STREAM ALLOWANCE	250 GPM (TABLE 11.2.3.1.2)
WATER SUPPLY	CITY SUPPLY
SPACING PER SPRINKLER	130 SQ FT MAX 6'-0" MIN 15'-0" MAX
K-FACTOR	5.6K
SPRINKLER RESPONSE TIME	STANDARD RESPONSE
SPRINKLER TEMP RATING	200 T & 220 T
SPRINKLER ORIENTATION	FUSIBLE LINK, WHITE POLYESTER, SEMI-RECESSED PENDANT

ORDINARY GROUP II	
SYSTEM TYPE	NET
SYSTEM PIPING CONFIGURATION	REE
CODE	NFPA 13 - 2016 EDITION
OCCUPANCY	ORDINARY GROUP II
CODE REFERENCE/SECTION FOR BASIS OF DESIGN	FIGURE 11.2.3.1.1
BASE DENSITY REQUIRED	0.20 GPM/SQ FT
BASE AREA OF OPERATION	1,500 SQ FT
FINAL DESIGN CRITERIA	0.20 GPM/SQ FT OVER 1,500 SQ FT
HOSE STREAM ALLOWANCE	250 GPM (TABLE 11.2.3.1.2)
WATER SUPPLY	CITY SUPPLY
SPACING PER SPRINKLER	130 SQ FT MAX 6'-0" MIN 15'-0" MAX
K-FACTOR	5.6K
SPRINKLER RESPONSE TIME	STANDARD RESPONSE
SPRINKLER TEMP RATING	200 T & 220 T
SPRINKLER ORIENTATION	FUSIBLE LINK, WHITE POLYESTER, SEMI-RECESSED PENDANT

"AS-BUILTS"
03/25/2022

REV	DATE	ISSUANCE DESCRIPTION
1	03/25/22	AS-BUILTS

REVISION HISTORY	
1	03/25/22

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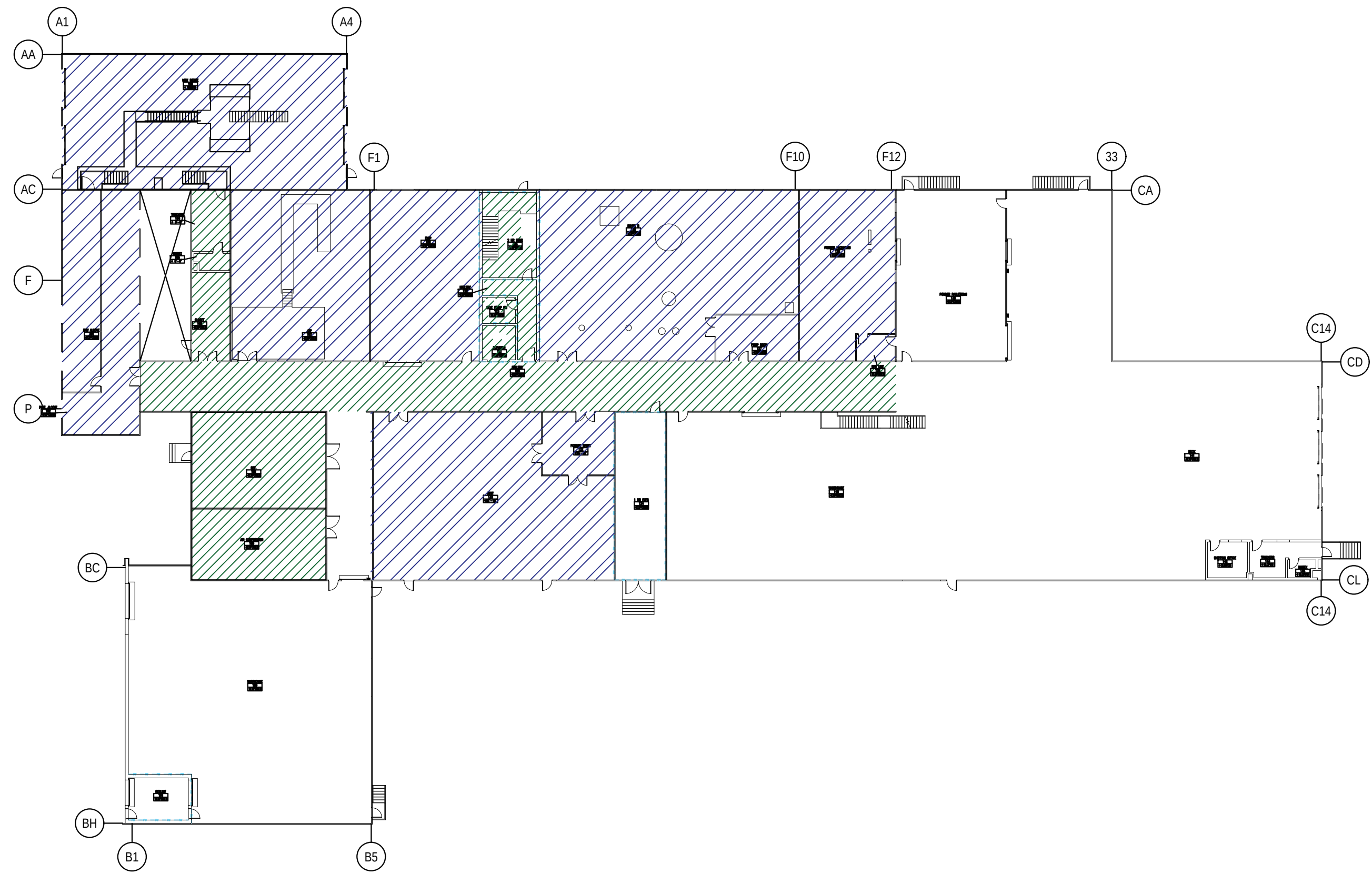
HAZARD PLAN

IF DRAWING IS PLOTTED CORRECTLY
THIS BAR SHOULD MEASURE 2"

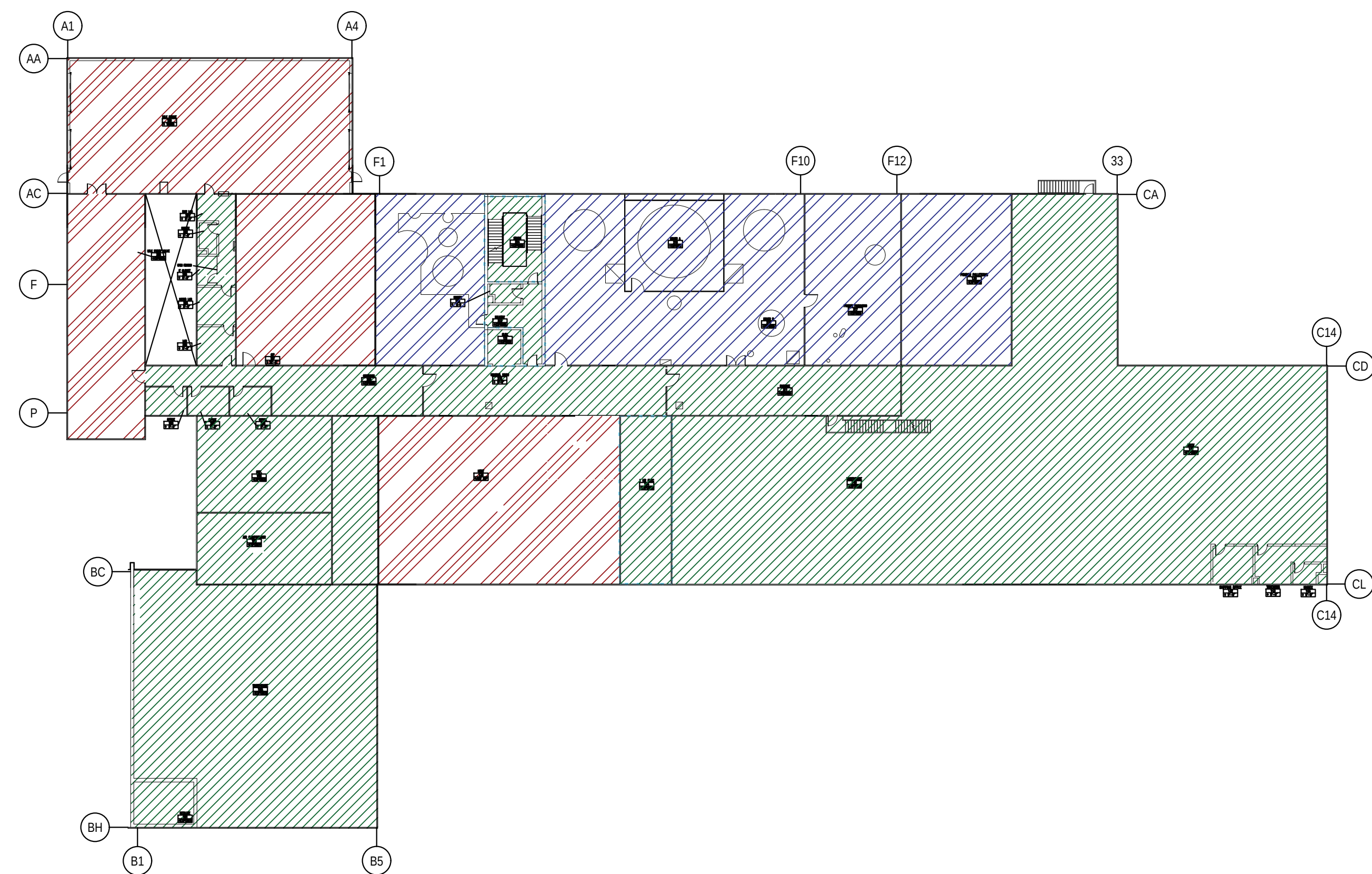
PROJECT NO.	IBRAHIM SULEIMAN
DATE	DAVID KOERNER
CONTRACT NO.	10/9/2020
	2846

AS-BUILT DOCUMENTS

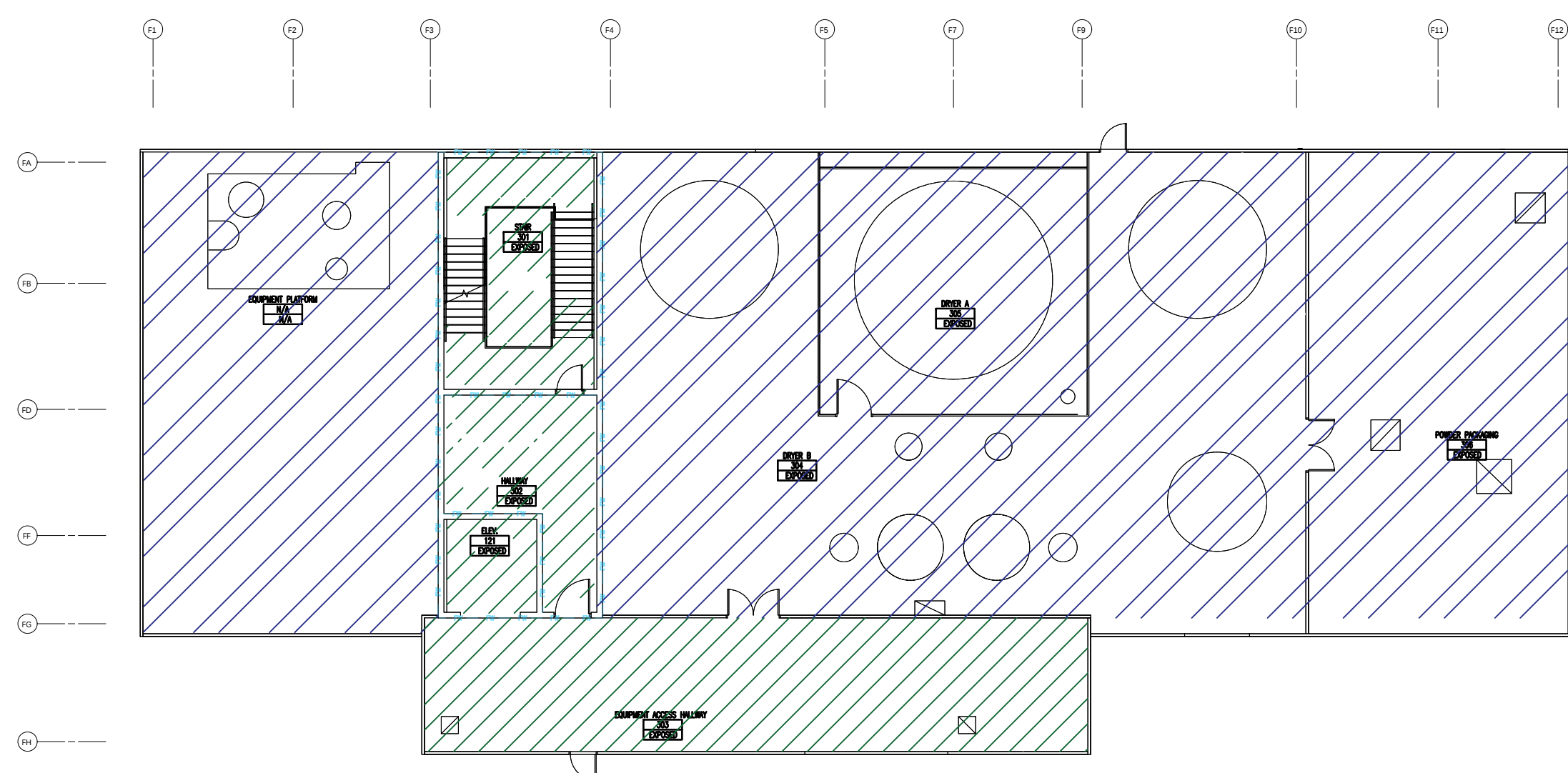
FP-006



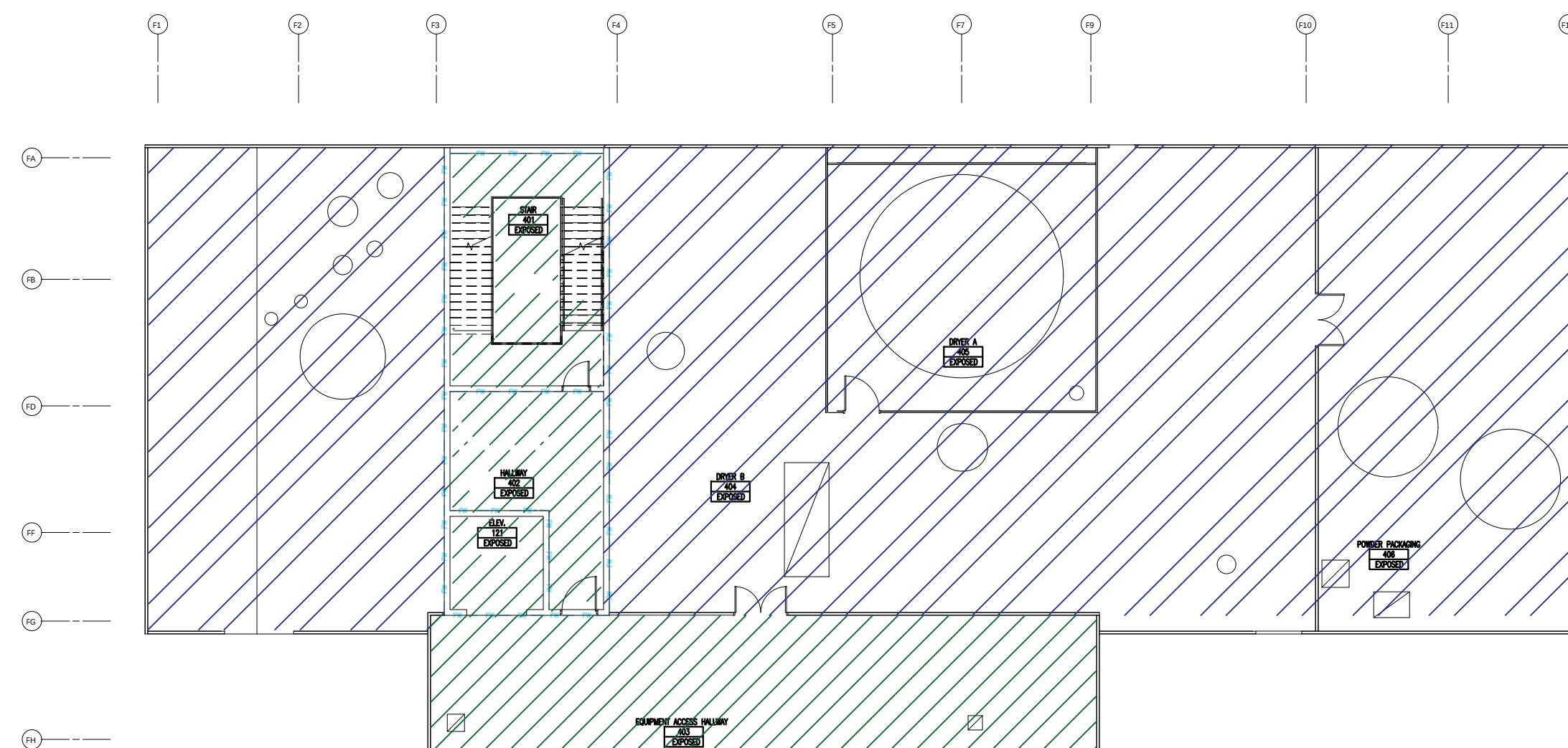
1 1st FLOOR MATERIAL PLAN
FP-007
GRAPHIC SCALE:
1/32" = 1'-0"



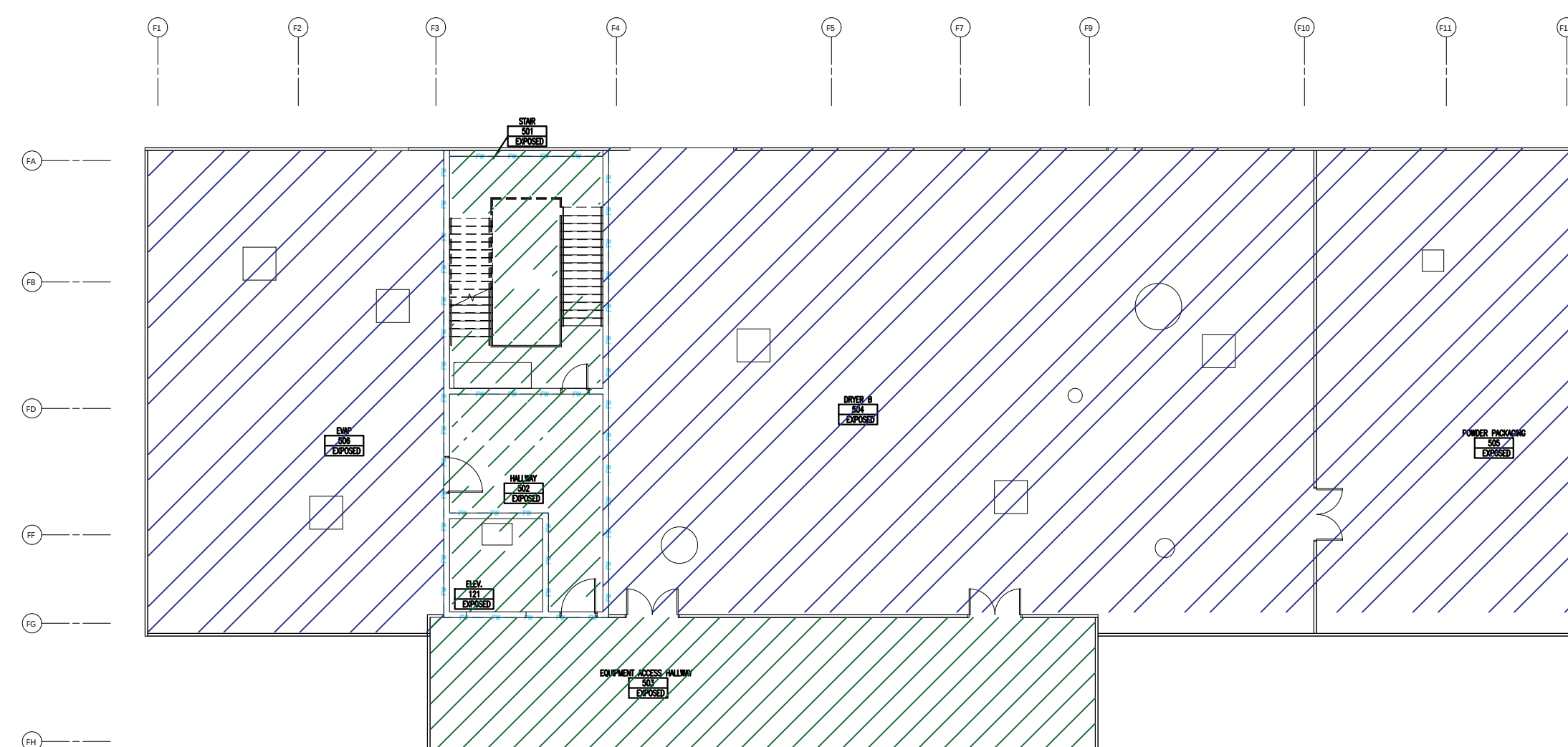
2 2nd FLOOR MATERIAL PLAN
FP-007
GRAPHIC SCALE:
1/32" = 1'-0"



3 3rd FLOOR MATERIAL PLAN
FP-007
GRAPHIC SCALE:
1/16" = 1'-0"



4 4th FLOOR MATERIAL PLAN
FP-007
GRAPHIC SCALE:
1/16" = 1'-0"



5 5th FLOOR MATERIAL PLAN
FP-007
GRAPHIC SCALE:
1/16" = 1'-0"

NON-PROCESS AREAS			
C-FACTOR	120	THREADED	BLACK STEEL SCHEDULE 40
PPE MATERIAL	THREADED	BROWNED	BLACK STEEL SCHEDULE 10
FITTINGS	THREADED	BLACK D.I., THREADED	
	BROWNED	FACTORY PAINTED D.I., VICTALUX "FIRELOCK" STYLE	

PROCESS AREAS - BELOW CEILINGS			
C-FACTOR	120	THREADED	GALVANIZED STEEL SCHEDULE 40
PPE MATERIAL	THREADED	BROWNED	GALVANIZED STEEL SCHEDULE 10
FITTINGS	THREADED	GALVANIZED D.I., THREADED	
	BROWNED	FACTORY PAINTED D.I., VICTALUX "FIRELOCK" STYLE	

PROCESS AREAS - ABOVE CEILINGS			
C-FACTOR	120	THREADED	BLACK STEEL SCHEDULE 40
PPE MATERIAL	THREADED	BROWNED	BLACK STEEL SCHEDULE 10
FITTINGS	THREADED	BLACK D.I., THREADED	
	BROWNED	FACTORY PAINTED D.I., VICTALUX "FIRELOCK" STYLE	

"AS-BUILTS"
03/25/2022

REV	DATE	ISSUANCE	DESCRIPTION
1	3/25/22	AS-BUILTS	

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☒ NFPA 13 - 2016	☐
☐	☐



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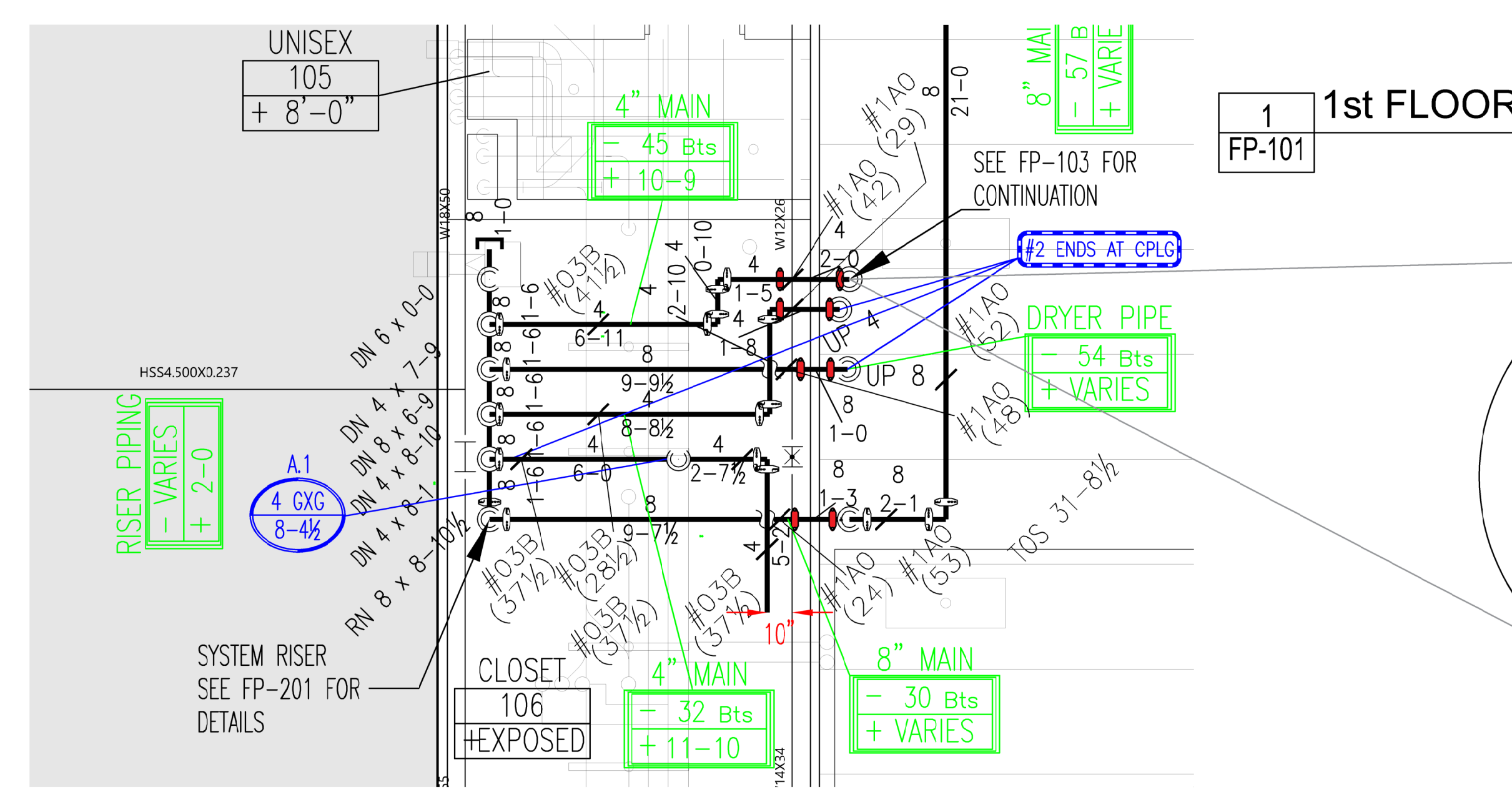
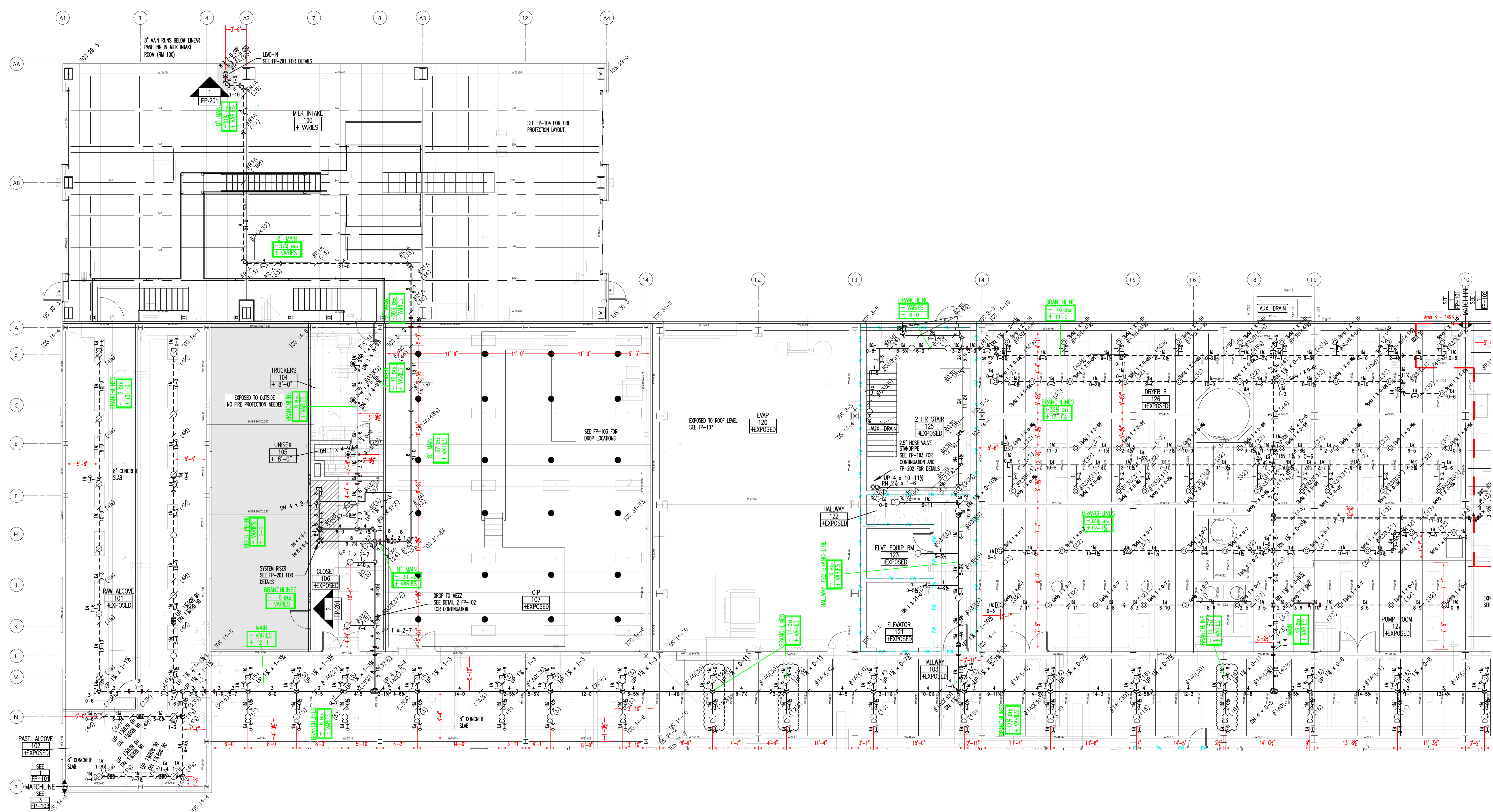
MATERIAL PLAN

IF DRAWING IS PLOTTED CORRECTLY
THIS BAR SHOULD MEASURE 2"

DRAWN BY:	IBRAHIM SULEIMAN
PROJECT MGR:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO:	2846

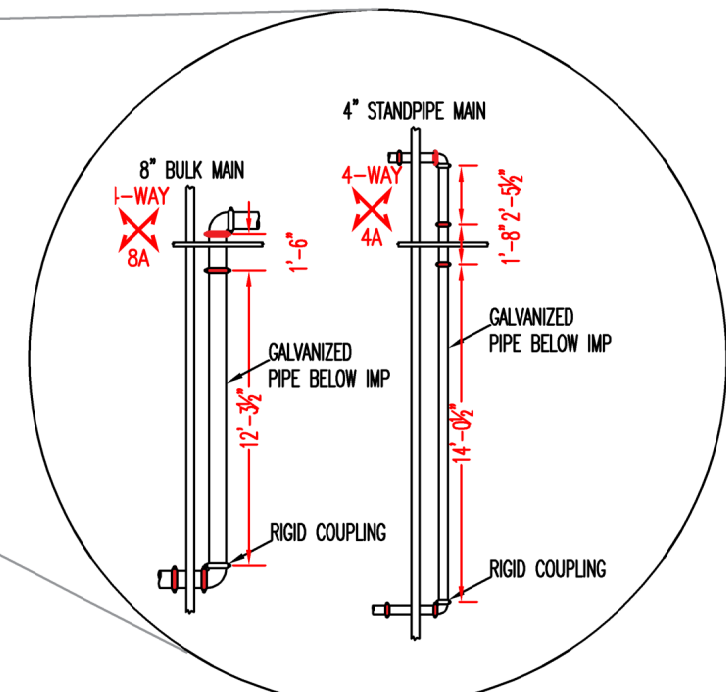
AS-BUILT DOCUMENTS

FP-007



2 RISER ROOM
FP-101

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



PIPE LEGEND
BLACK: —
GALV: - - -
*GALVANIZED CAST IRON
WALL PLATES TO BE
UTILIZED IN PROCESSING
AREAS

HYDRAULIC CALCULATION INFORMATION - STANDPIPE				SPRINKLERS													
SYSTEM NUMBER: 5	SYSTEM TYPE: WET	CALCULATION FILE: 2846-SYS4-DRYER	MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM. "K"	CALC'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMB.	QUANTITY
STANDPIPE CLASSIFICATION: N/A			WVNC	MICROFAST	W301	JPR	QR	1/2"	5.6k	225 SQFT	1'-12"	165°	BR	N/A	21475M/B	○	32
HYD. DESIGN DATA: 1075 GPM @ 50 PSI	NUMBER OF HOSE VALVES: N/A		WVNC	MICROFAST	W108	JPR	SR	1/2"	5.6k	130 SQFT	1'-12"	220°	WHT PLY	N/A	21475M/B	○	20
SYSTEM REQUIREMENTS: 1075 GPM @ 62 PSI	AT: CD4		WVNC	MICROFAST	W110	PEN	SR	1/2"	5.6k	130 SQFT	1'-12"	220°	WHT PLY	E-1	21475M/B	●	24
			WVNC	MICROFAST	W303	PEN	QR	1/2"	5.6k	225 SQFT	1'-12"	165°	CHR	E-1	21475M/B	○	3
WATER SUPPLY INFORMATION - STATIC PRESSURE: 115	RESIDUAL PRESSURE: 75		WVNC	MICROFAST	W108	JPR	SR	1/2"	5.6k	130 SQFT	1'-12"	220°	WHT PLY	SPRNG	21475M/B	○	58
TOTAL FLOW AVAILABLE: 1,444	ELEVATION: -13'-3.5"		TYCO	SM-20	T5332	HSW	SR	3/4"	11.2k	332 SQFT	2' AN FLOOR	200°	BR	N/A	W-TYPE 3	◀	1
TEST LOCATION: 4600 SOUTH, 500 WEST	BY: EXCEL	TEST DATE: 1/3/2020	WVNC	MICROFAST	W303	PEN	QR	1/2"	5.6k	225 SQFT	1'-12"	165°	BR	N/A	21475M/B	○	6
APPROVALS REQUIRED: CITY OF HYRUM																	TOTAL SPRINKLERS ON THIS SHEET: 144

NOTES
1. SEE DETAIL #7 FOR DROP DETAIL - SEE FP-004 FOR DETAIL

KEYPLAN

△		
△		
△	05/27/22	AS-BUILT
△	02/10/21	FABRICATION DOCUMENTS
△	01/18/20	FABRICATION DOCUMENTS
△	11/23/20	SUBMITTAL DOCUMENTS
△	10/9/20	SUBMITTAL DOCUMENTS
REV	DATE	ISSUANCE DESCRIPTION
REVISION HISTORY		

☒ NFPA 13 - 2016

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GENERAL CONTRACTOR
HANSEN-RICE INC
1717 E CHISHOLM DR.
NAMPA, ID 83687
PH: (208) 465-0200
CONTACT:DEVIN GUY
(208) 550-1708

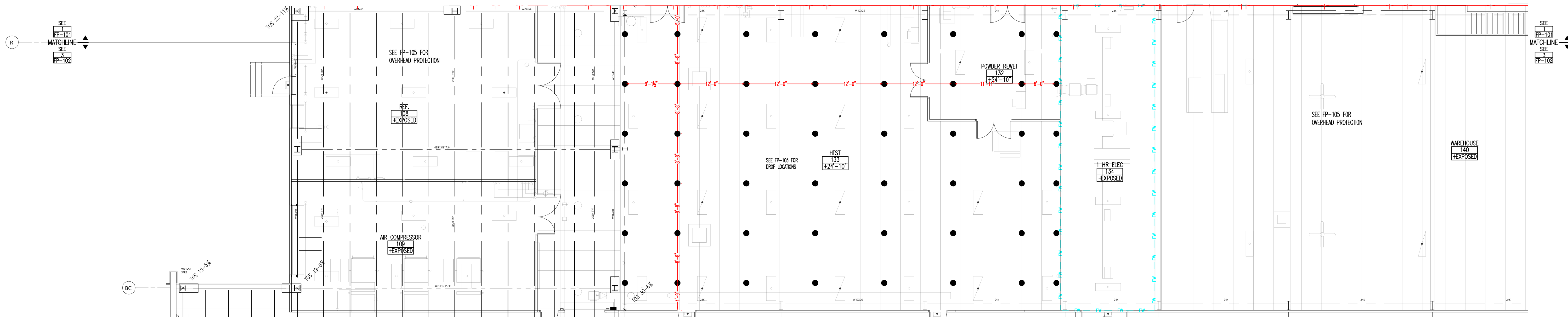
WEST POINT DAIRY EXPANSION
570 NORTH 500 WEST
HYRUM, UTAH 84319

FIRE PROTECTION PLAN - 1st FLOOR-A
IF DRAWING IS PLOTTED CORRECTLY THIS BAR SHOULD MEASURE 2"

DRAWN BY: IBRAHIM SULEIMAN
PROJECT MANAGER: DAVID KOERNER
DATE: 10/9/2020
CONTRACT NO: 2846

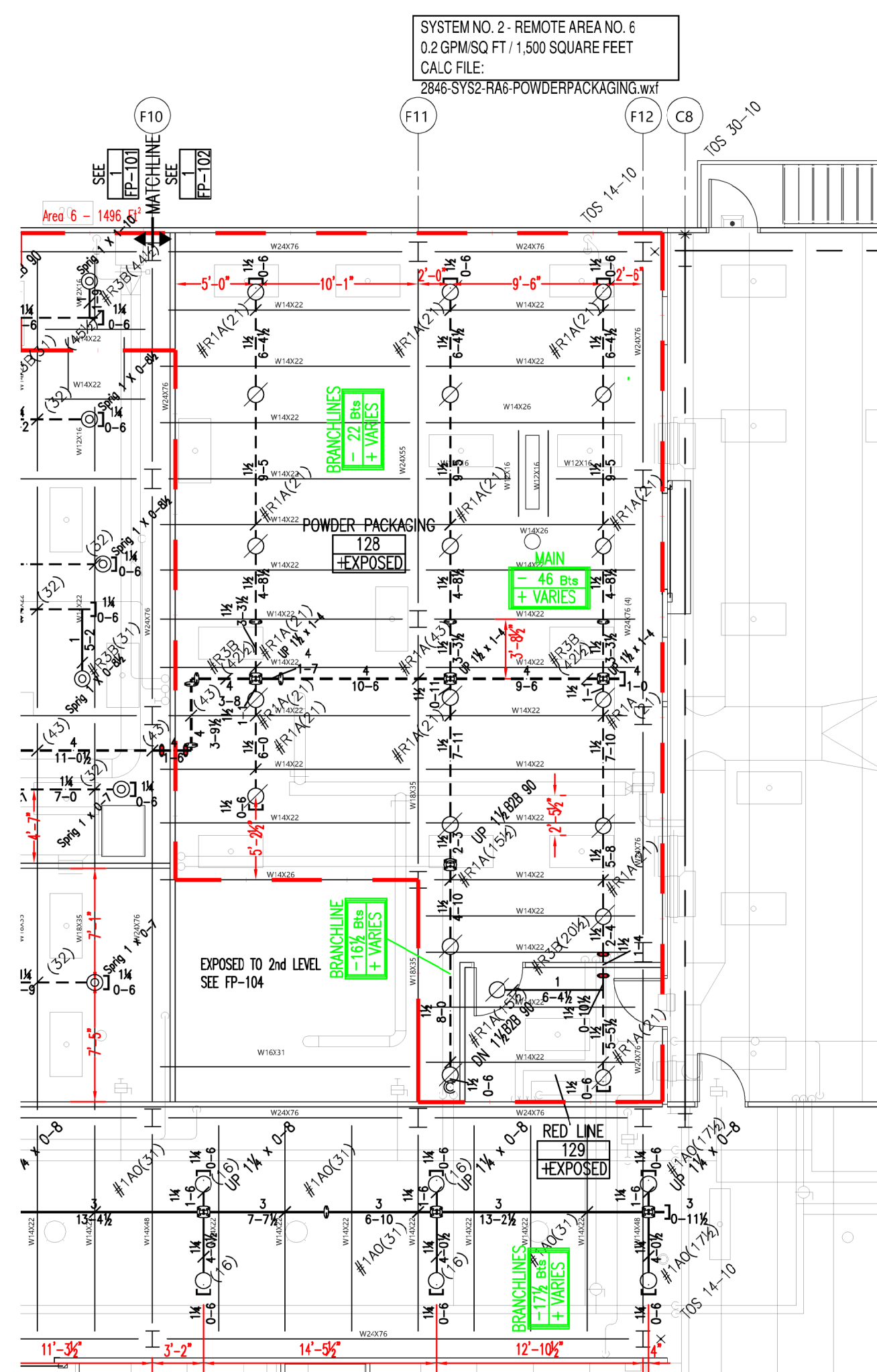
FABRICATION DOCUMENTS

FP-101



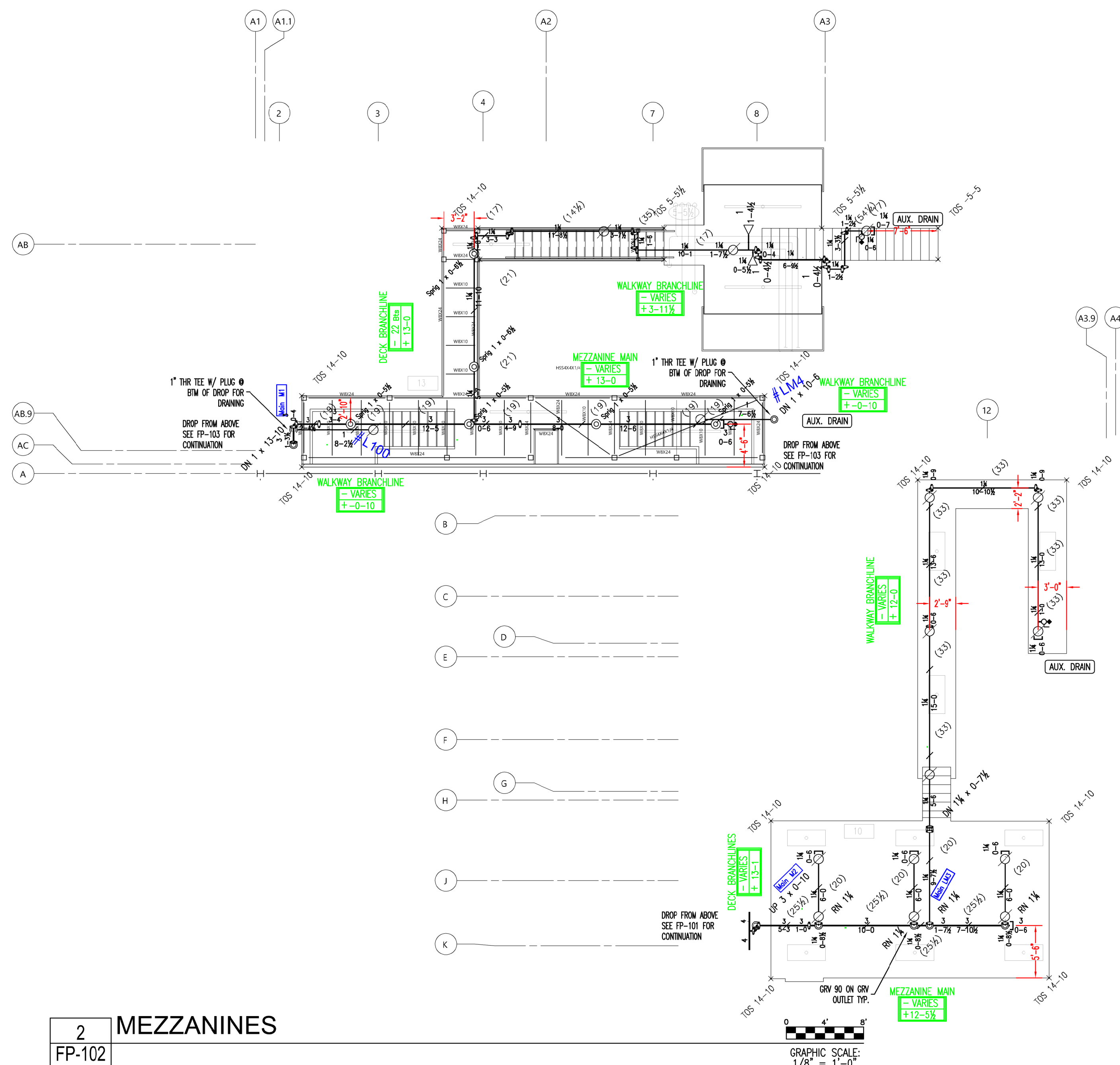
3 1st FLOOR
FP-102

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



1 1st FLOOR
FP-102

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



2 MEZZANINES
FP-102

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

"AS-BUILTS"
06-27-2022

NOTES

- SEE DETAIL #7 FOR DROP DETAIL
- SEE FP-105 FOR OVERHEAD FIRE PROTECTION

PIPE LEGEND

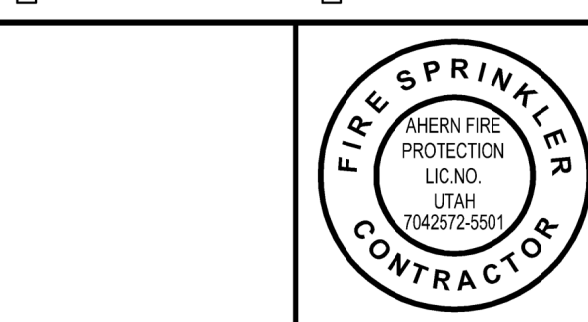
BLACK: — — —
GALV: — — —
*GALVANIZED CAST IRON
WALL PLATES TO BE
UTILIZED IN PROCESSING
AREAS

HYDRAULIC CALCULATION INFORMATION - AREA DENSITY	
SYSTEM NUMBER: 2	REMOTE AREA: 6
HAZARD CLASSIFICATION: ORDINARY HAZARD II	CALCULATION FILE: 2846-SYS2-POWDERPACKAGING
HYD. DESIGN DATA - DENSITY: 0.20 GPM/SQFT	TOTAL SYSTEM AREA: 15,400 SQFT
MINIMUM AREA OF APPLICATION: 1500 SQFT	NUMBER OF SPRINKLERS: 22
SYSTEM REQUIREMENTS: 524 GPM @ 74 PSI	AT: BR1
HOSE ALLOWANCE INSIDE: N/A	HOSE ALLOWANCE OUTSIDE: 250 GPM
WATER SUPPLY INFORMATION - STATIC PRESSURE: 115	RESIDUAL PRESSURE: 75
TOTAL FLOW AVAILABLE: 1,444	ELEVATION: -13'-3.5"
TEST LOCATION: 4600 SOUTH, 500 WEST	BY: EXCEL
APPROVALS REQUIRED: CITY OF HYRUM	TEST DATE: 1/3/2020

SPRINKLERS											
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM. "K"	CALC'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.
WING	MICROFAST	W301	JPR	QR	1/2"	5.6k	23 SQFT	1'-12"	165°	BR	N/A
WING	MICROMATIC	W108	JPR	SR	1/2"	5.6k	130 SQFT	1'-12"	220°	WHT PLY	N/A
WING	MICROMATIC	W108	JPR	SR	1/2"	5.6k	130 SQFT	1'-12"	220°	WHT PLY	SPRG
WING	MICROMATIC	W110	PEN	SR	1/2"	5.6k	130 SQFT	1'-12"	220°	WHT PLY	E-1
WING	MICROFAST	W307	HSW	QR	1/2"	5.6k	130 SQFT	1'-12"	205°	WHT PLY	N/A
TOTAL SPRINKLERS ON THIS SHEET:											99

REV	DATE	ISSUANCE DESCRIPTION
1	06/27/22	AS-BUILT
2	07/18/21	FABRICATION DOCUMENTS
3	07/18/21	FABRICATION DOCUMENTS
4	11/23/20	SUBMITTAL DOCUMENTS
5	10/9/20	SUBMITTAL DOCUMENTS
6	10/9/20	ISSUANCE DESCRIPTION

REVISION HISTORY	
1	06/27/22
2	07/18/21
3	07/18/21
4	11/23/20
5	10/9/20
6	10/9/20



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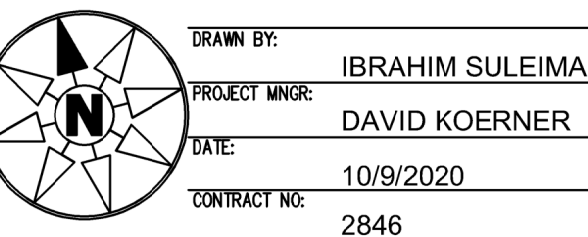
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570 NORTH 500 WEST
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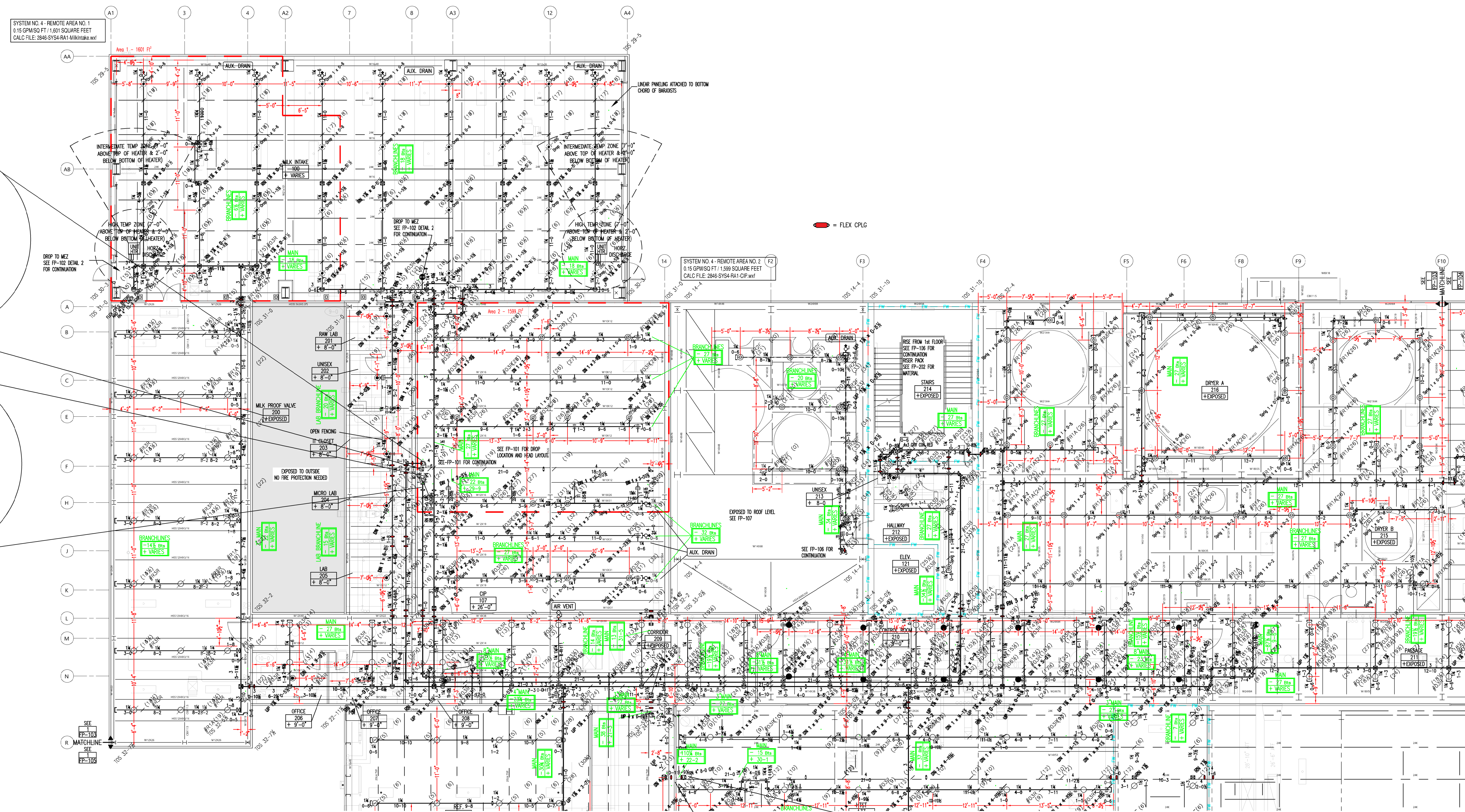
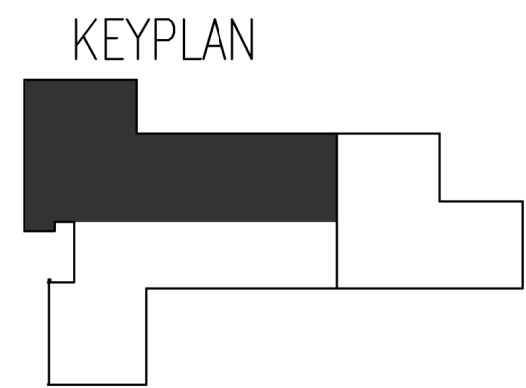
FIRE PROTECTION PLAN - 1st FLOOR-B&E

IF DRAWING IS PLOTTED CORRECTLY
THIS BAR SHOULD MEASURE 2"



FABRICATION DOCUMENTS

FP-102



1 2nd FLOOR
FP-103

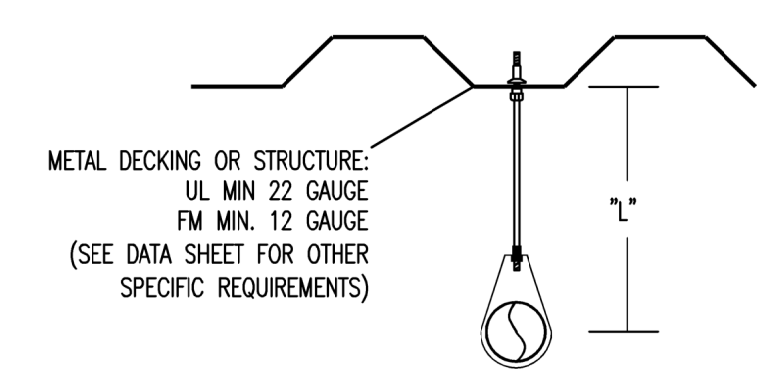
NOTES

- ALL HANGERS ARE #140 U.N.O. - SEE FP-004 FOR DETAIL
- SEE DETAIL #7 FOR DROP DETAIL

● = FLEX CPLG

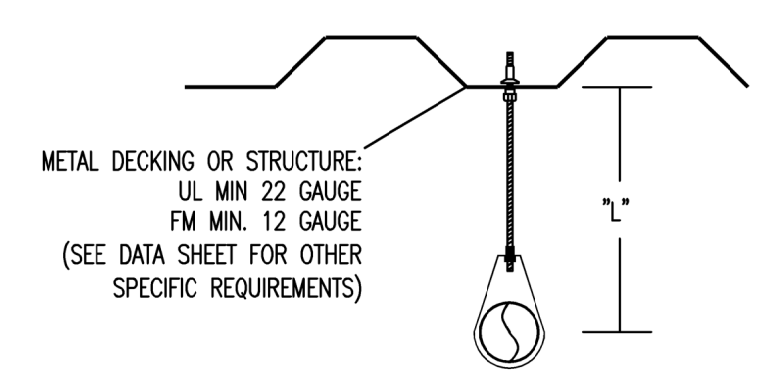
PIPE LEGEND

- BLACK: ———
- GALV: - - -
- *GALVANIZED CAST IRON
- WALL PLATES TO BE UTILIZED IN PROCESSING AREAS
- = FLEX CPLG



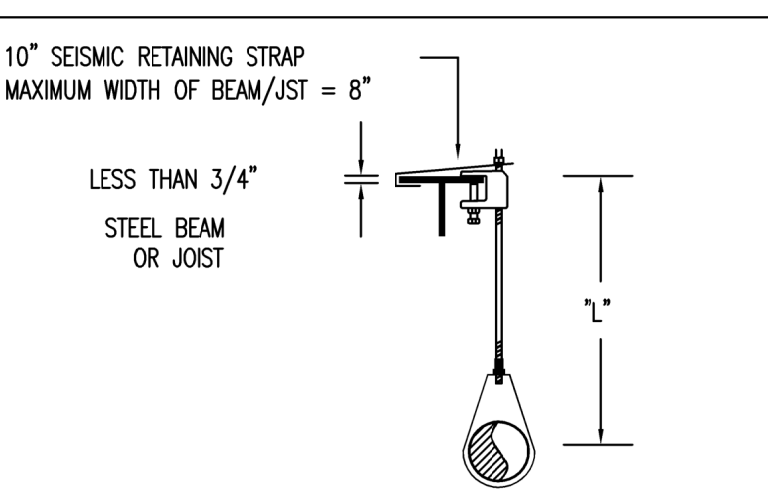
TYPICAL HANGER #R3R

- NO SCALE
- 1 --- SAMMY X-PRESS XP-20 (UL LISTED = 2 1/2" & SMALLER PIPE) (FM APPROVED = UP TO 4" PIPE)
 - 1 --- ROUND BAR W/ 2" THREADS ON EACH END
 - 1 --- ADJUSTABLE HANGER RING
- *INSTALL WITH SAMMY X-PRESS INSTALLATION TOOL ONLY



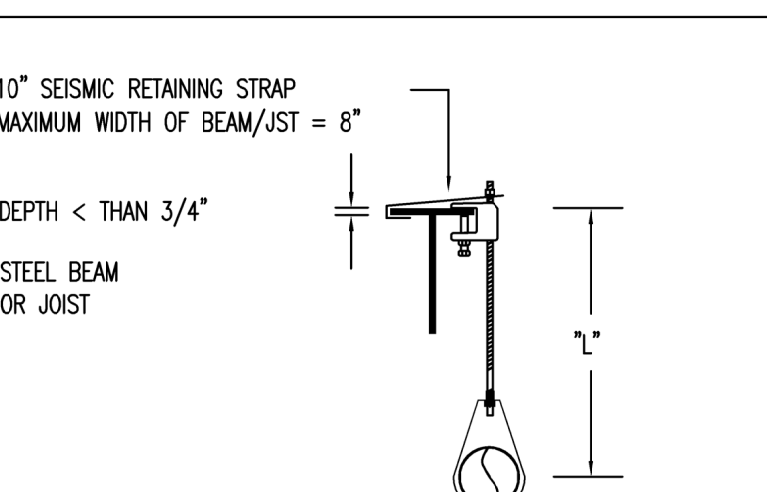
TYPICAL HANGER #03R

- NO SCALE
- 1 --- SAMMY X-PRESS XP-20 (UL LISTED = 2 1/2" & SMALLER PIPE) (FM APPROVED = UP TO 4" PIPE)
 - 1 --- ALL THREAD ROD
 - 1 --- ADJUSTABLE HANGER RING
- *INSTALL WITH SAMMY X-PRESS INSTALLATION TOOL ONLY



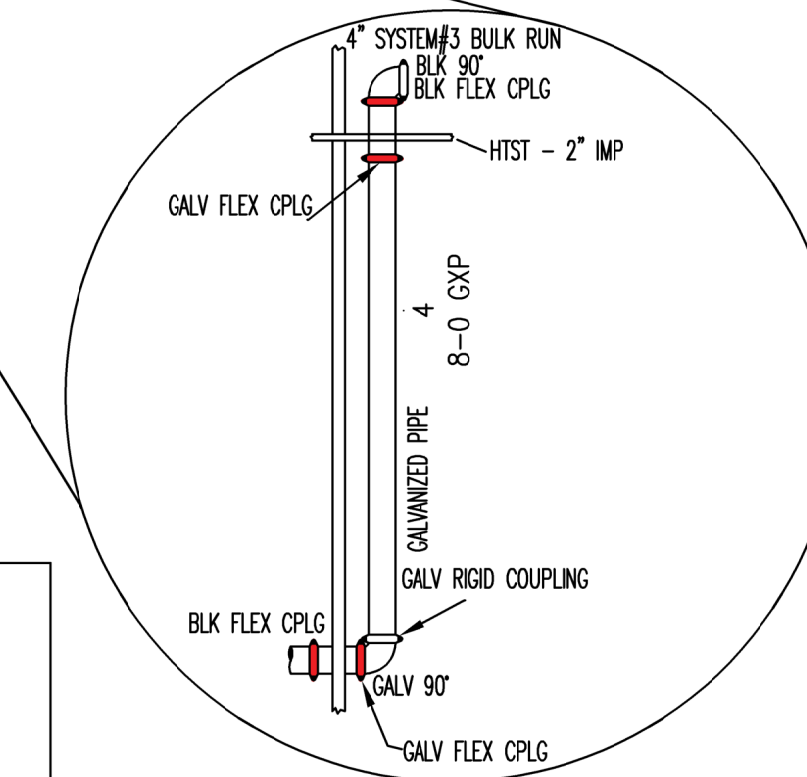
TYPICAL HANGER #R1A

- NO SCALE
- 1 --- JR. TOP BEAM CLAMP (1" TO 4" PIPE = 3/8" (1/2" = 5" THROUGH 8" PIPE) (5" TO 8" PIPE = 1/2")
 - 1 --- HEX NUT (3/8" OR 1/2")
 - 1 --- ROUND BAR W/ 2" THREADS ON EACH END
 - 1 --- ADJUSTABLE HANGER RING
- *UL LISTED & FM APPROVED HANGER*



TYPICAL HANGER #1A0

- NO SCALE
- 1 --- JR. TOP BEAM CLAMP (3/8" = 1" THROUGH 4" PIPE) (1/2" = 5" THROUGH 8" PIPE)
 - 1 --- 10" SEISMIC RETAINING STRAP
 - 1 --- FLAT WASHER (3/8" OR 1/2")
 - 1 --- ALL THREAD ROD (3/8" OR 1/2")
 - 1 --- ADJUSTABLE HANGER RING



HYDRAULIC CALCULATION INFORMATION - AREA DENSITY	
SYSTEM NUMBER: 4	REMOTE AREA RA-1 CALCULATION FILE 2846-SYS4-RA1-Minikode
HAZARD CLASSIFICATION: ORDINARY HAZARD GROUP 1	TOTAL SYSTEM AREA 23,300 SQFT
HYD. DESIGN DATA - DENSITY: 0.15 GPM/SQFT	SQ FT PER SPRINKLER: 130 SQFT
MINIMUM AREA OF APPLICATION: 1500 SQFT	NUMBER OF SPRINKLERS: 15
SYSTEM REQUIREMENTS: 321 GPM @ 68 PSI	AT: BR1
HOSE ALLOWANCE INSIDE: N/A	HOSE ALLOWANCE OUTSIDE: 250 GPM

HYDRAULIC CALCULATION INFORMATION - AREA DENSITY	
SYSTEM NUMBER: 4	REMOTE AREA RA-2 CALCULATION FILE 2846-SYS4-RA2-CIP
HAZARD CLASSIFICATION: ORDINARY HAZARD GROUP 1	TOTAL SYSTEM AREA 23,300 SQFT
HYD. DESIGN DATA - DENSITY: 0.15 GPM/SQFT	SQ FT PER SPRINKLER: 130 SQFT
MINIMUM AREA OF APPLICATION: 1500 SQFT	NUMBER OF SPRINKLERS: 16
SYSTEM REQUIREMENTS: 326 GPM @ 68 PSI	AT: BR1
HOSE ALLOWANCE INSIDE: N/A	HOSE ALLOWANCE OUTSIDE: 250 GPM

WATER SUPPLY INFORMATION - STATIC PRESSURE: 75	
TOTAL FLOW AVAILABLE: 1,444	
TEST LOCATION: 4600 SOUTH 500 WEST	
TEST DATE: 1/3/2020	

APPROVALS REQUIRED: CITY OF HYRUM	BY: EXCEL
-----------------------------------	-----------

SPRINKLERS														
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM "K"	CALCD COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMB.	QUANTITY
WVNG	MICROFAST	W301	JPR	QR	1/2"	5.6K	225 SQFT	1'-12"	165°	BR	N/A	21475M/B	○	40
WVNG	MICROMATIC	W108	JPR	SR	1/2"	5.6K	130 SQFT	1'-12"	220°	WHT PLY	N/A	21475M/B	○	27
WVNG	MICROMATIC	W110	PEN	SR	1/2"	5.6K	130 SQFT	1'-12"	220°	WHT PLY	E-1	21475M/B	●	12
WVNG	MICROFAST	W303	PEN	SR	1/2"	5.6K	225 SQFT	1'-12"	165°	CHS	E-1	21475M/B	●	11
WVNG	MICROMATIC	W108	JPR	SR	1/2"	5.6K	130 SQFT	1'-12"	220°	WHT PLY	SPRG	21475M/B	○	47
WVNG	MICROFAST	W301	JPR	QR	1/2"	5.6K	225 SQFT	1'-12"	165°	BR	SPRG	21475M/B	○	18
WVNG	MICROMATIC	W110	PEN	SR	1/2"	5.6K	130 SQFT	1'-12"	220°	WHT PLY	N/A	21475M/B	○	29
WVNG	MICROMATIC	W110	PEN	SR	1/2"	5.6K	130 SQFT	1'-12"	286°	WHT PLY	N/A	21475M/B	○	7
TOTAL SPRINKLERS ON THIS SHEET:														191

REVISION HISTORY	
REV	DESCRIPTION
06/27/22	ASBUILT
02/28/21	FABRICATION DOCUMENTS
01/19/21	FABRICATION DOCUMENTS
11/23/20	SUBMITTAL DOCUMENTS
10/9/20	SUBMITTAL DOCUMENTS
09/15/20	ISSUANCE DESCRIPTION

REVISION HISTORY	
REV	DESCRIPTION
06/27/22	ASBUILT
02/28/21	FABRICATION DOCUMENTS
01/19/21	FABRICATION DOCUMENTS
11/23/20	SUBMITTAL DOCUMENTS
10/9/20	SUBMITTAL DOCUMENTS
09/15/20	ISSUANCE DESCRIPTION

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570 NORTH AND 500 WEST
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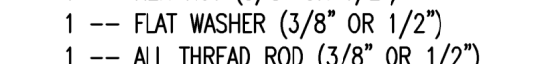
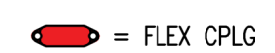
FIRE PROTECTION PLAN - 2nd FLOOR-A

IF DRAWING IS PLOTTED CORRECTLY THIS MARK SHOULD MEASURE 2"

DRAWN BY:	IBRAHIM SULEIMAN
PROJECT NAME:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO.:	2846

FABRICATION DOCUMENTS

FP-103



1. SEE DETAIL #1 FOR DROP DETAIL

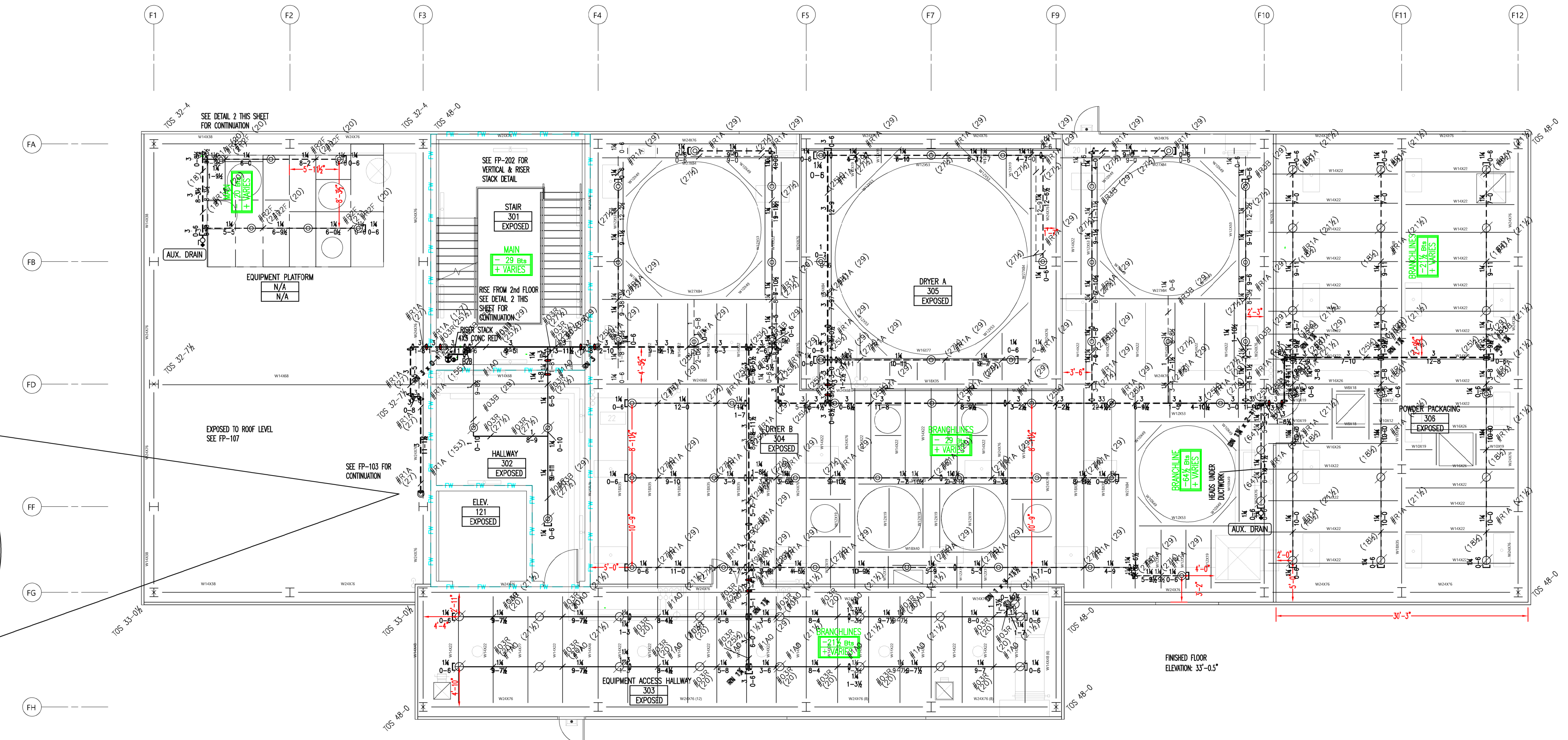
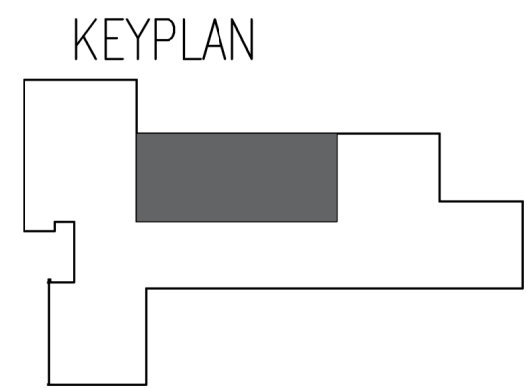
SPRINKLERS														
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THRD SIZE	NOM. ¾"	GAL'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH N/A	SYMB	QUAN
Viking	MICRONATIC	K068	JRR	SR	1/2"	5.6k	130 SQFT	1'-11"	220°	WHT PLY	N/A	21475M/B	☉	15
Viking	MICRONATIC	KX110	PEN	SR	1/2"	5.6k	130 SQFT	DROP	220°	BR	N/A	21475M/B	☉ + 25#	84
Viking	MICRONATIC	KX110	PEN	SR	1/2"	5.6k	130 SQFT	DROP	286°	BR	N/A	21475M/B	☉	6
TOTAL SPRINKLRS ON THIS SHEET:													105	



DRAWN BY:	IBRAHIM SULEIMAN
PROJECT MGR:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO:	2846

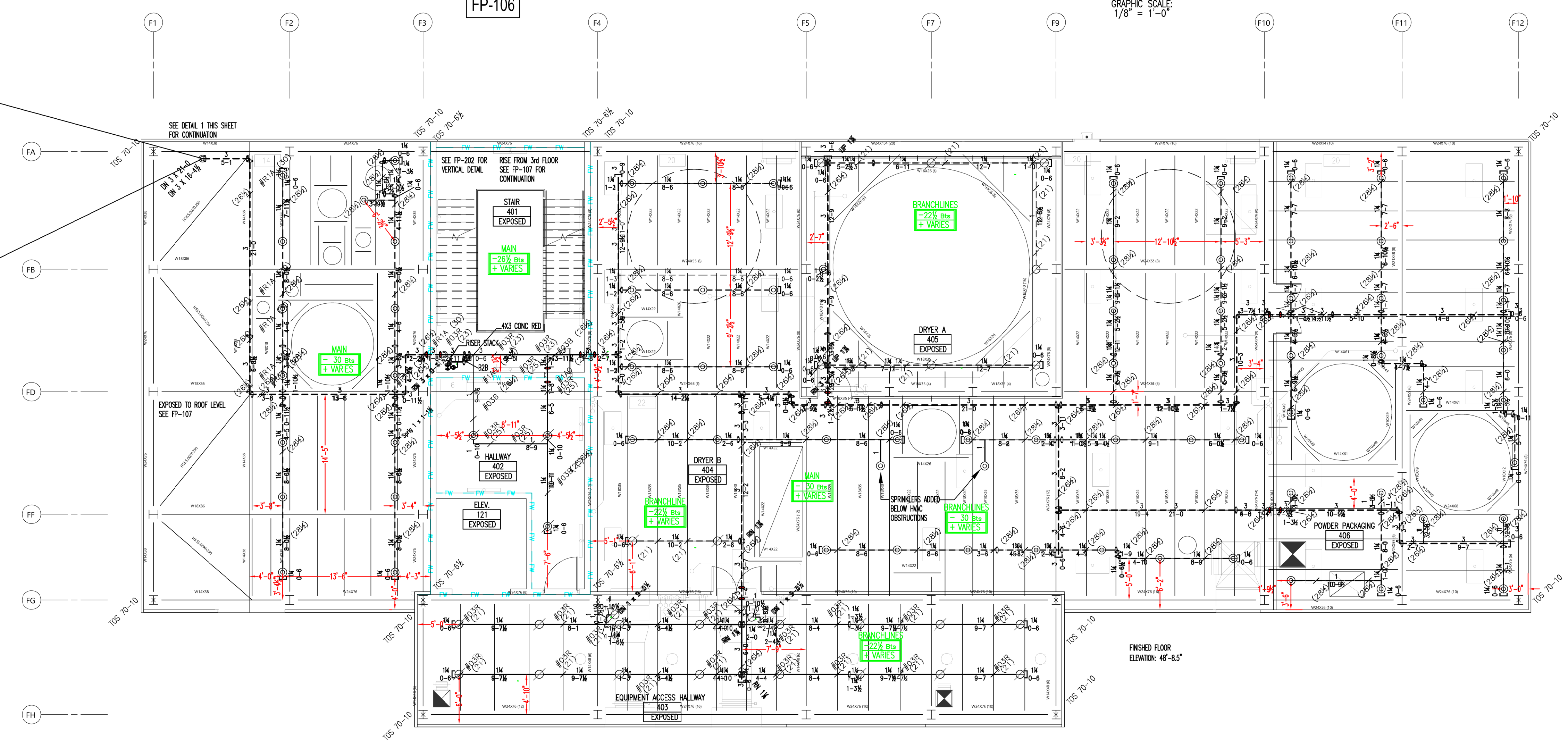
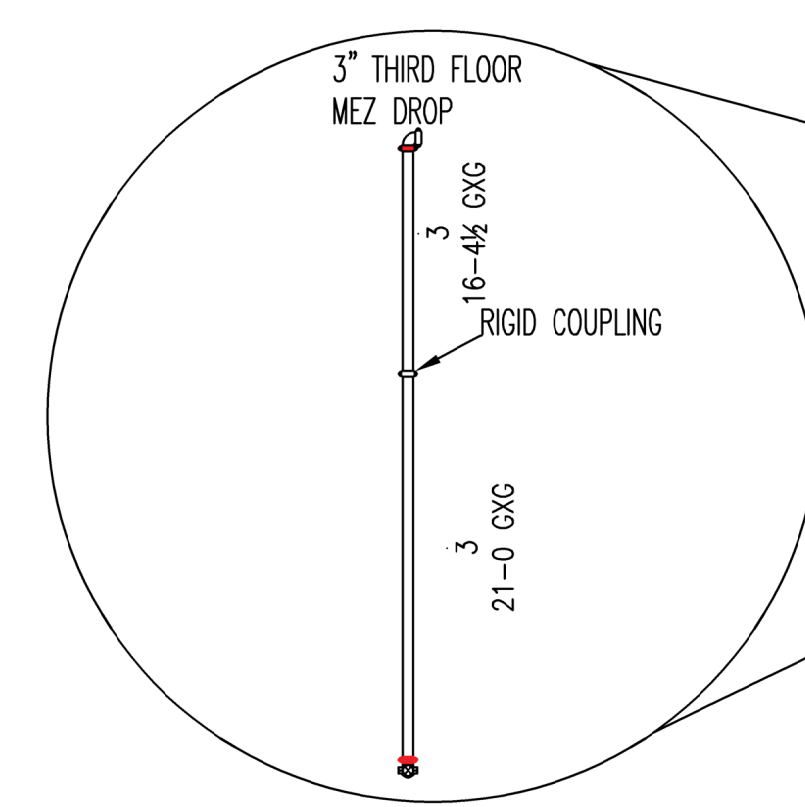
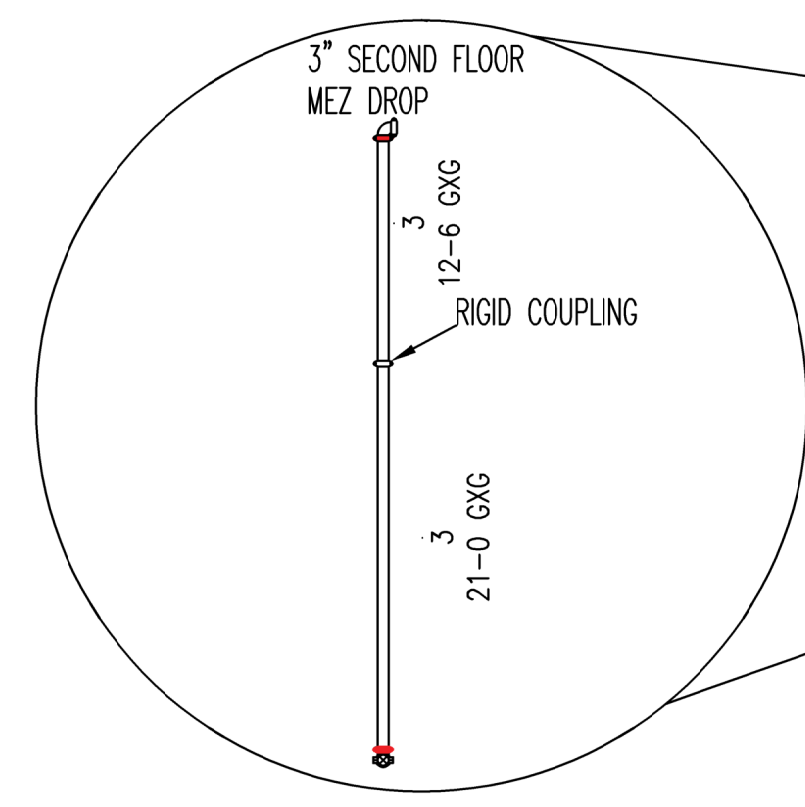
FABRICATION DOCUMENTS

P-105



1 3rd FLOOR
FP-106

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



2 4th FLOOR
FP-106

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

PIPE LEGEND
BLACK: —
GALV: — — —
*GALVANIZED CAST IRON
WALL PLATES TO BE
UTILIZED IN PROCESSING
AREAS
— = FLEX CPLG

NOTES

1. ALL HANGERS ARE #3R U.N.O - SEE FP-004 FOR DETAIL

SPRINKLERS												
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM. "K"	CALC'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH
WING	MICROFAST	W1001	JPR	OR	1/2"	5.0k	235 SQFT	17'-4" BLW STEEL	165°	BR	SPRG	21475M/B
WING	MICROFAST	W1008	JPR	SR	1/2"	5.0k	130 SQFT	17'-4" BLW STEEL	220°	WHT PLY	N/A	21475M/B
WING	MICROFAST	W1008	JPR	SR	1/2"	5.0k	130 SQFT	17'-4" BLW STEEL	220°	WHT PLY	SPRG	21475M/B
TOTAL SPRINKLERS ON THIS SHEET:												
193												

'AS-BUILTS'
06/27/2022

REV	DATE	ISSUANCE DESCRIPTION
1	06/27/22	AS-BUILT
2	02/28/21	FABRICATION DOCUMENTS
3	11/23/20	SUBMITTAL DOCUMENTS
4	10/9/20	SUBMITTAL DOCUMENTS
5	10/9/20	ISSUANCE DESCRIPTION



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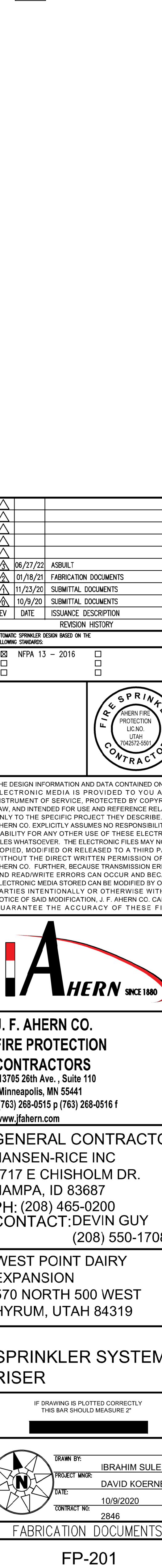
GENERAL CONTRACTOR
HANSEN-RICE INC
1717 E CHISHOLM DR.
NAMPA, ID 83687
PH: (208) 465-0200
CONTACT:DEVIN GUY
(208) 550-1708

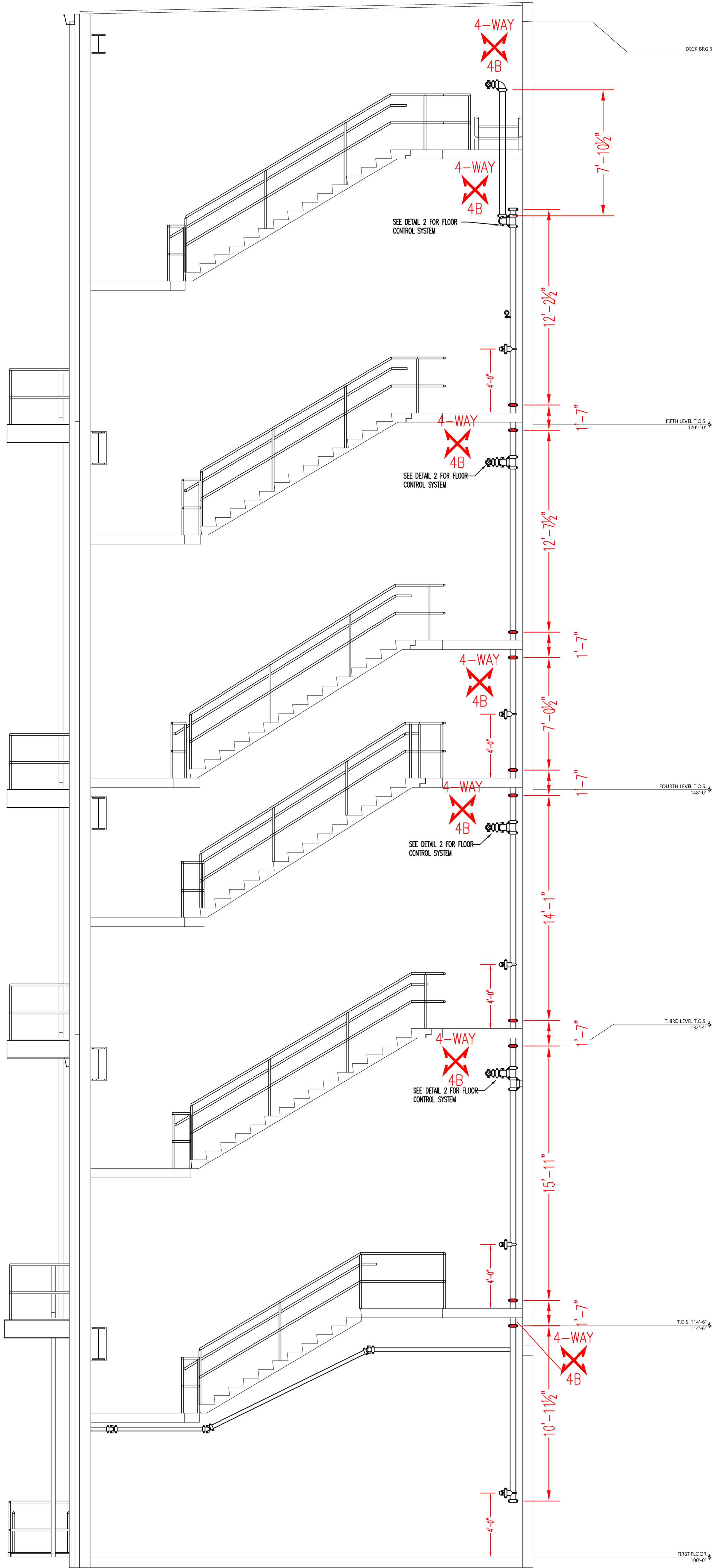
WEST POINT DAIRY EXPANSION
570 NORTH AND 500 WEST
HYRUM, UTAH 84319

FIRE PROTECTION PLAN - 3rd & 4th FLOOR

IF DRAWING IS PLOTTED CORRECTLY THIS BAR SHOULD MEASURE 2"

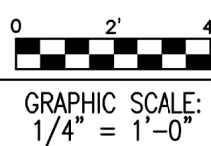
DESIGNED BY:	IBRAHIM SULEIMAN
PROJECT MANAGER:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO.:	2846
FABRICATION DOCUMENTS	
FP-106	





1
FP-202

STANDPIPE - STAIR 125

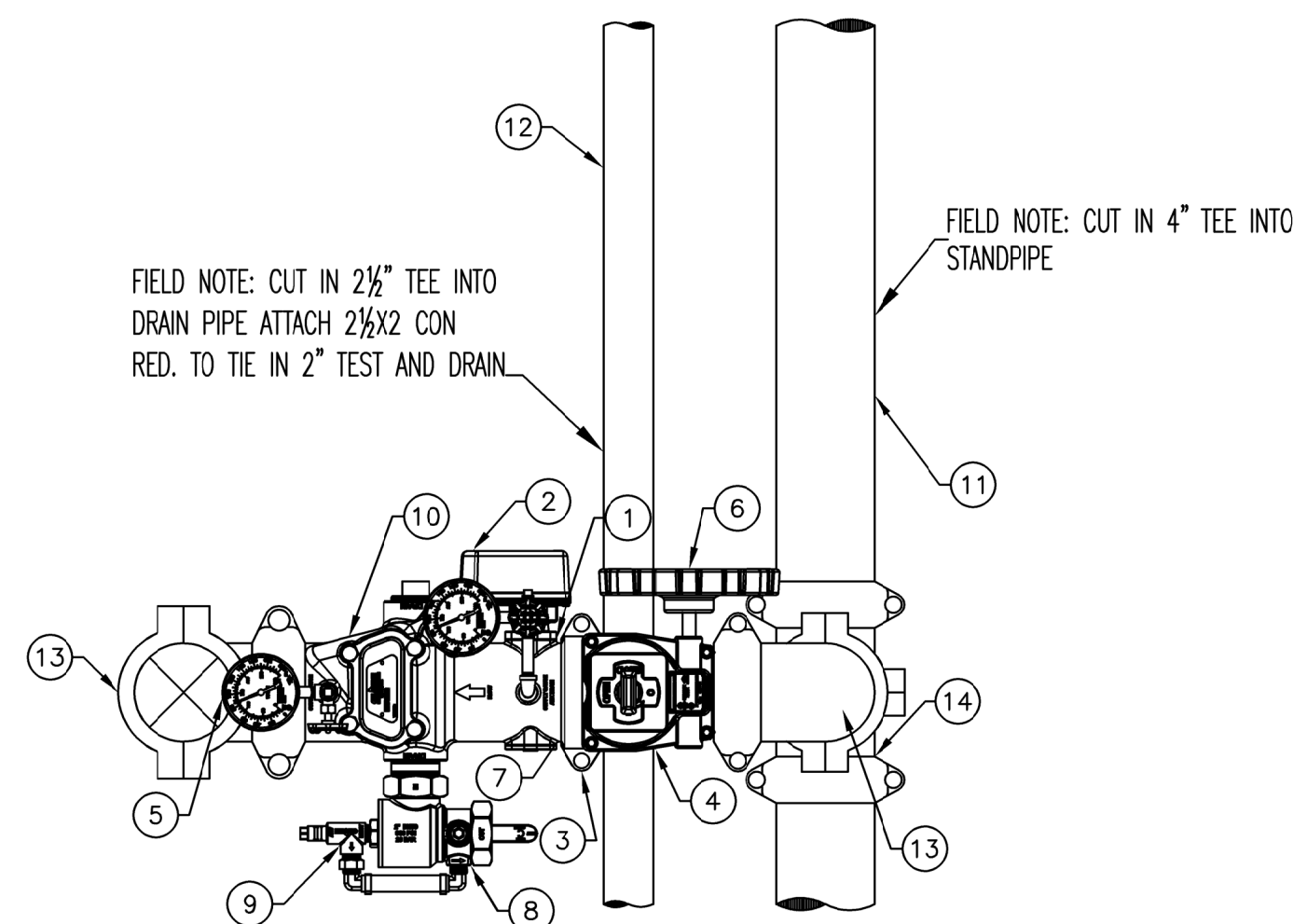


GRAPHIC SCALE:
1/4" = 1'-0"

- 1 4" GLOBE VALVE-GV-120 MODEL#317817-L-V
- 2 FLOW SWITCH
- 3 COUPLING
- 4 BUTTERFLY CONTROL VALVE W/ INTERNAL SUPERVISORY SWITCH
- 5 PRESSURE GAUGE
- 6 THREE-WAY (SOG) VALVE
- 7 FLOW SWITCH ADAPTER
- 8 MODEL UTD TEST AND DRAIN
- 9 MODEL ARV ADJUSTABLE RELIEF VALVE
- 10 4" GRV GLOBE SWING CHECK VALVE
- 11 4" BLACK SCH-10 PIPE GXG W/WELD OUTLETS
INCLUDE:
4" X 2 1/2" MECH TEE
2 1/2" FWM ANGLE HOSE BRASS
2 1/2" X 3/4" THIR NIPPLE
2 1/2" CAP & CHAIN BRASS
(2) 4" BLK FLEX CPLG
NOTE:
STANDPIPE
2 1/2" BLACK SCH-10 PIPE GXG
INCLUDE:
(3) 2" BLK FIRELOCK 90°
(6) 2" BLK RIGID CPLG
(1) 2" X 3/4" BKT SCH40 BLK
(1) 2 1/2" X 2" BLK CON RED
(1) 2" X 5-3 BLK SCH-10 GXG
(1) 2 1/2" GRV BLK FIRELOCK TEE
(2) 2 1/2" BLK FLEX CPLG
(3) 2 1/2" BLK RIGID CPLG
NOTE:
DRAIN RISER
FIELD TO ROUTE TO EXTERIOR ON FIRST FLOOR
INCLUDE:
(2) 4" GROOVED COUPLING
(1) 4" BLACK 90° FIRELOCK ELBOW
(2) 4" GROOVED COUPLING
(1) 4" BLACK FIRELOCK TEE
INCLUDE:
(2) 4" GROOVED COUPLING

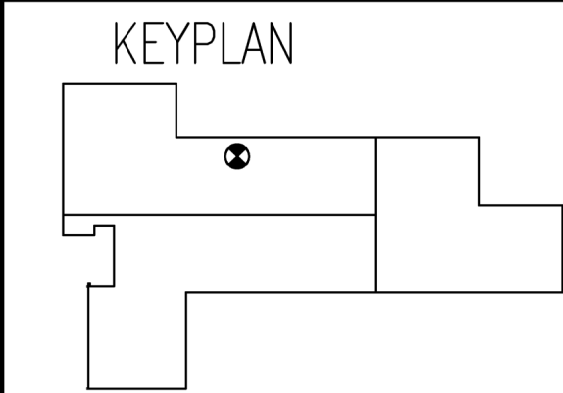
2
FP-202

RISER PACK - DETAIL VIEW



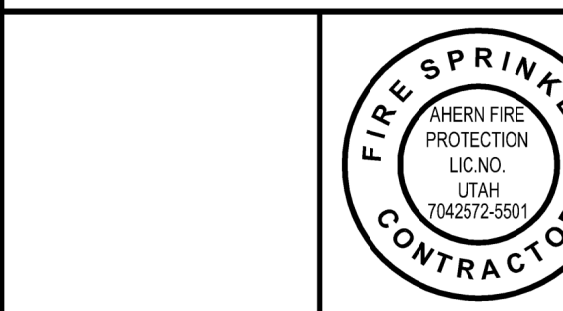
"AS-BUILTS"
06-27-2022

HYDRAULIC CALCULATION INFORMATION - STANDPIPE			
SYSTEM NUMBER: 4	SYSTEM TYPE: WET	CALCULATION FILE: 2846-SYS4-STANDPIPE	
STANDPIPE CLASSIFICATION: CLASS II			
HYD. DESIGN DATA: 250 GPM @ 100 PSI		NUMBER OF HOSE VALVES: 2	
SYSTEM REQUIREMENTS: 500GPM @ 162 PSI		AT: BR1	
WATER SUPPLY INFORMATION - STATIC PRESSURE: 115		RESIDUAL PRESSURE: 75	
TOTAL FLOW AVAILABLE: 1,444		ELEVATION: -13'-3.5"	
TEST LOCATION: 4600 SOUTH, 500 WEST		BY: EXCEL	
APPROVALS REQUIRED: CITY OF HYRUM		TEST DATE: 1/3/2020	



REV	DATE	ISSUANCE DESCRIPTION
△		
△		
△		
△	06/27/22	AS-BUILT
△	02/28/21	FABRICATION DOCUMENTS
△	01/18/21	FABRICATION DOCUMENTS
△	11/23/20	SUBMITTAL DOCUMENTS
△	10/09/20	SUBMITTAL DOCUMENTS

REVISION HISTORY	
△	
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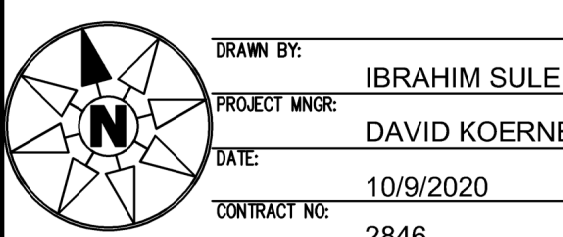
J. F. AHERN CO.
FIRE PROTECTION CONTRACTORS
13705 26th Ave., Suite 110
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(763) 268-0515 p (763) 268-0516 f
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1717 E CHISHOLM DR.
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(208) 550-1708

WEST POINT DAIRY EXPANSION
570 NORTH 500 WEST
HYRUM, UTAH 84319

STANDPIPE DETAILS

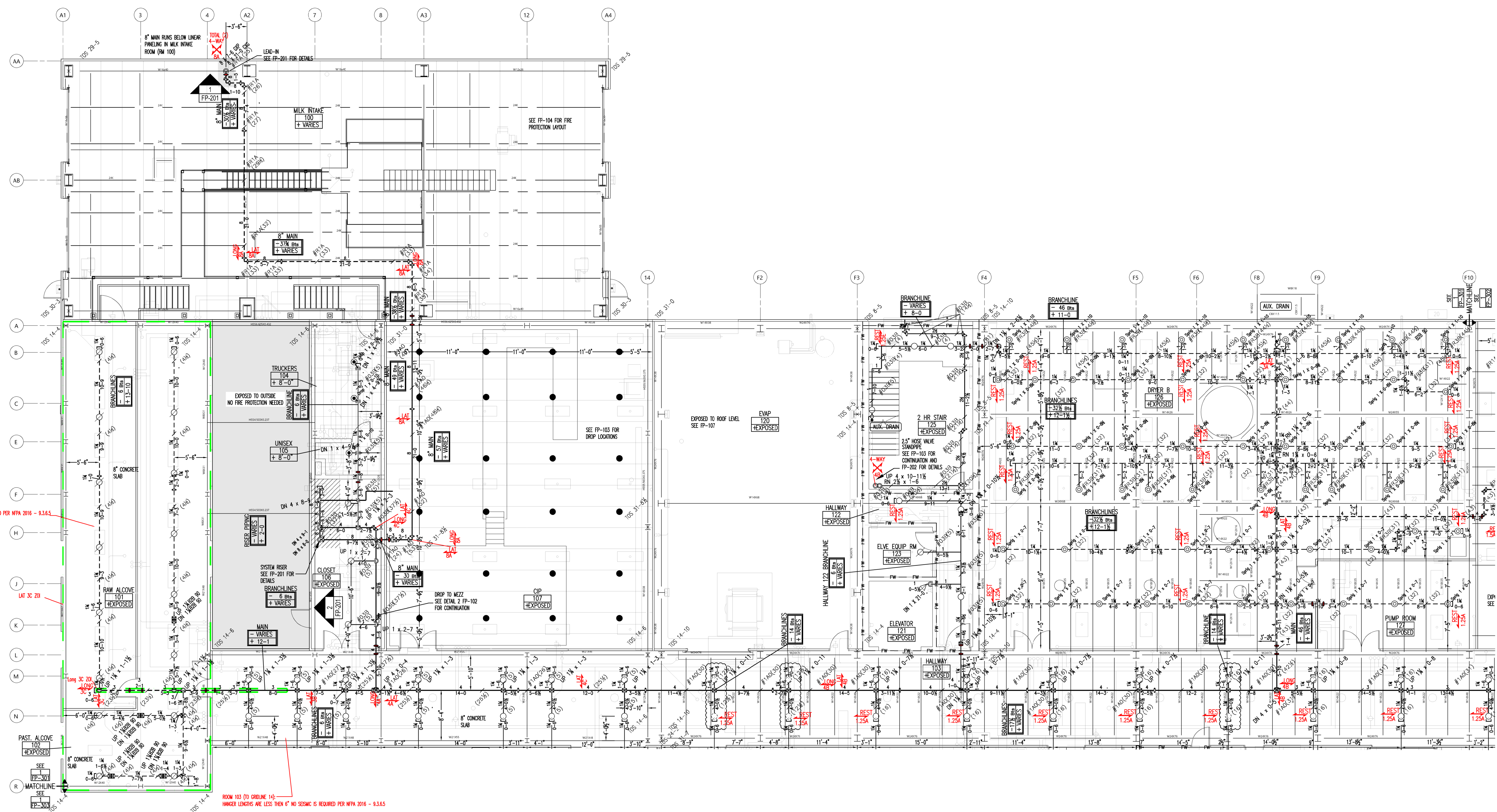
IF DRAWING IS PLOTTED CORRECTLY
THIS BAR SHOULD MEASURE 2"



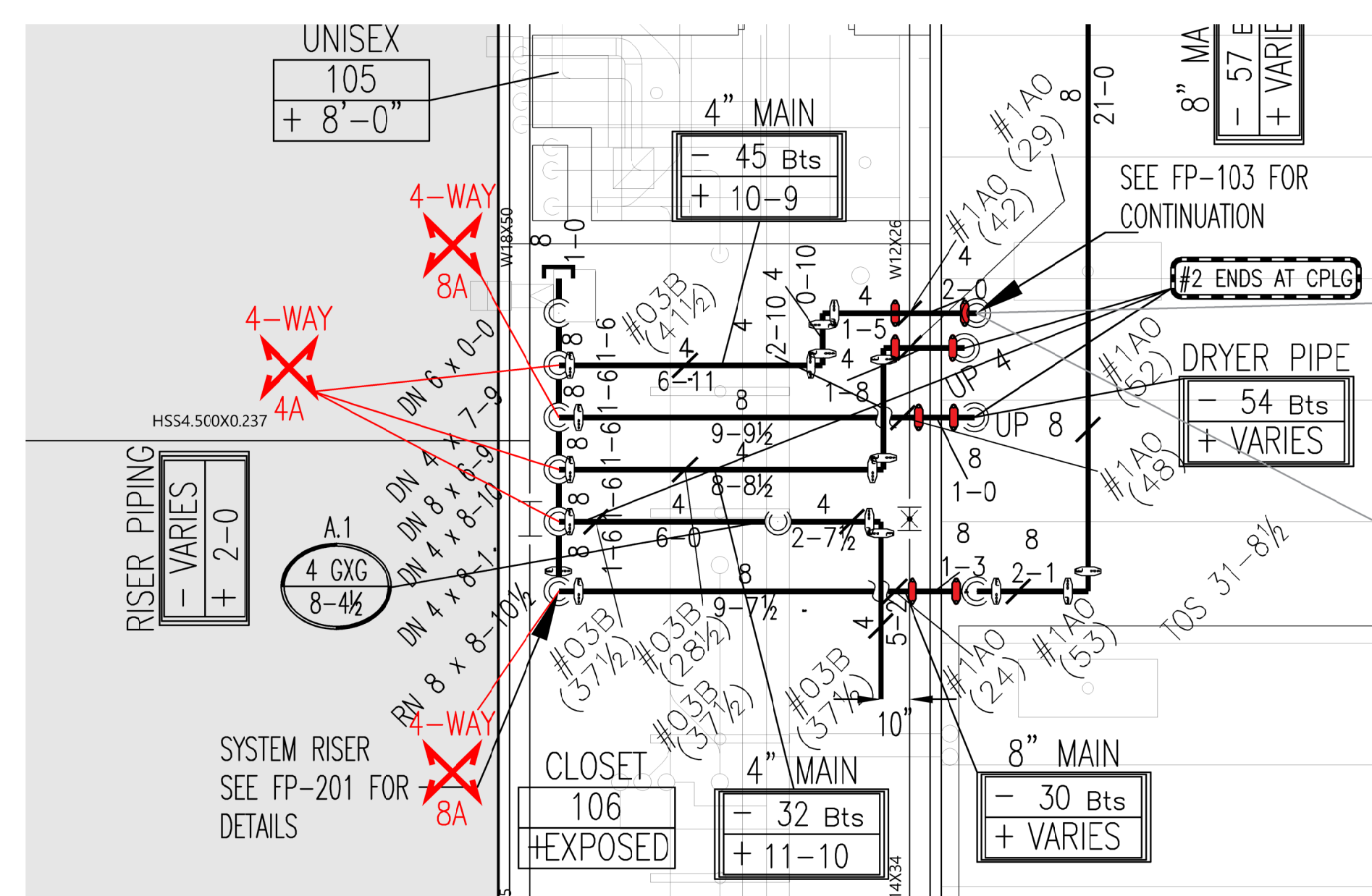
DESIGNED BY: IBRAHIM SULEIMAN
PROJECT MANAGER: DAVID KOERNER
DATE: 10/9/2020
CONTRACT NO: 2846

FABRICATION DOCUMENTS

FP-202



PIPE LEGEND
BLACK: ———
GALV: - - -
*GALVANIZED CAST IRON
WALL PLATES TO BE
UTILIZED IN PROCESSING
AREAS



2 RISER ROOM
FP-301

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

SEISMIC BRACING NOTES

THIS SYSTEM IS DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 - 2016 EDITION.

WHERE PIPING PASSES THROUGH WALLS, PLATFORMS, MEZZANINES, ROOFS, OR FLOORS PROVIDE A HOLE OR SLEEVE WITH A NOMINAL DIAMETER 2" LARGER FOR 1" - 3" PIPES, 4" LARGER FOR PIPES 4" AND LARGER. CLEARANCE IS NOT NEEDED WHEN WALL MATERIAL IS FRANGIBLE AND THE WALL DOES NOT HAVE A FIRE RATING.

CLEARANCE IS NOT REQUIRED WHERE FLEXIBLE COUPLINGS ARE PROVIDED WITHIN 12" OF EACH SIDE OF THE WALL OR FLOOR.

BRANCHLINE RESTRAINT WILL BE PROVIDED ON ALL BRANCHLINES WHERE THE HANGER ROD IS GREATER THAN 6" FROM THE TOP OF THE PIPE TO THE POINT OF ATTACHMENT. RESTRAINTS WILL BE PROVIDED WITHIN 24" OF A HANGER AND WITHIN 6" OF THE END OF THE BRANCHLINE.

SPACING AND CONFIGURATION OF SEISMIC BRACING IS DESIGNED USING THE "ZONE OF INFLUENCE METHOD"

SEE SEISMIC LOAD CALCULATIONS INCLUDED IN SUBMITTAL DOCUMENTS.

INDICATES THE LOCATION OF LATERAL SWAY BRACING - SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LATERAL BRACINGS WILL BE PROVIDED WITHIN 6" OF THE END OF THE PIPE, WITHIN 2' OF THE END OF ANY HORIZONTAL MANIFOLD PIPING LONGER THAN 6', AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

INDICATES THE LOCATION OF LONGITUDINAL SWAY BRACING - SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LONGITUDINAL BRACING WILL BE PROVIDED WITHIN 40' OF THE END OF THE PIPE, AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

INDICATES THE LOCATION OF 4-WAY SWAY BRACING - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 24" OF THE CENTERLINE OF VERTICAL PIPE. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

INDICATES THE LOCATION OF BRANCH LINE RESTRAINT - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.

SEISMIC BRACE LEGEND

BRACE NAME	MAX SPACING BETWEEN BRACES	BRACE PIPE TYPE	STRUCTURE TYPE	ZONE OF INFLUENCE REFERENCE
REST 1.25A	39'	1 1/4" BLK SCH40	W-BEAM	FP-304
REST 1.25B	39'	1 1/4" BLK SCH40	W-BEAM	FP-307
REST 1.25C	39'	1 1/4" BLK SCH40	CONC	FP-307
REST 1.5A	36'	1 1/4" BLK SCH40	BAR JOIST	FP-306
LAT 3A	40'	1 1/4" BLK SCH40	W-BEAM	FP-304
LAT 3B	40'	1 1/4" BLK SCH40	W-BEAM	FP-304
LAT 3C	40'	1 1/4" BLK SCH40	CONC	FP-304
LAT 3D	20'	1 1/4" BLK SCH40	W-BEAM	FP-306
LAT 4A	40'	1 1/4" BLK SCH40	W-BEAM	FP-305
LAT 4B	20'	1 1/4" BLK SCH40	BAR JOIST	FP-305
4WAY 4A	25'	1 1/4" BLK SCH40	W-BEAM	BULK MAIN

SEISMIC BRACE LEGEND

BRACE NAME	MAX SPACING BETWEEN BRACES	BRACE PIPE TYPE	STRUCTURE TYPE	ZONE OF INFLUENCE REFERENCE
LAT 8A	40'	1 1/4" BLK SCH40	W-BEAM	FP-301
LAT 8B	40'	1 1/4" BLK SCH40	W-BEAM	FP-301
LONG 3A	80'	1 1/4" BLK SCH40	W-BEAM	FP-304
LONG 3B	80'	1 1/4" BLK SCH40	W-BEAM	FP-304
LONG 3C	80'	1 1/4" BLK SCH40	CONC	FP-304
LONG 4A	80'	1 1/4" BLK SCH40	W-BEAM	FP-304
LONG 4B	80'	1 1/4" BLK SCH40	BAR JOIST	FP-305
LONG 8A	80'	1 1/4" BLK SCH40	W-BEAM	FP-301
LONG 8B	80'	1 1/4" BLK SCH40	W-BEAM	FP-301
4WAY 3A	25'	1 1/4" BLK SCH40	W-BEAM	RISER
4WAY 8A	25'	1 1/4" BLK SCH40	W-BEAM	RISER

"AS-BUILTS"
06-27-2022

KEYPLAN

△		
△		
△		
△	06/27/22 AS-BUILT	
△	02/17/21 FABRICATION DOCUMENTS	
△	01/18/21 FABRICATION DOCUMENTS	
△	11/23/20 SUBMITTAL DOCUMENTS	
△	10/9/20 SUBMITTAL DOCUMENTS	
REV	DATE	ISSUANCE DESCRIPTION
REVISION HISTORY		

△ NFPA 13 - 2016

FIRE SPRINKLER
PROTECTION
CONTRACTOR

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(208) 550-1708

WEST POINT DAIRY
EXPANSION
570 NORTH 500 WEST
HYRUM, UTAH 84319

SEISMIC FIRE
PROTECTION PLAN -
1st FLOOR-A

IF DRAWING IS PLOTTED CORRECTLY
THIS BOX SHOULD MEASURE 2"

DESIGNED BY: IBRAHIM SULEIMAN

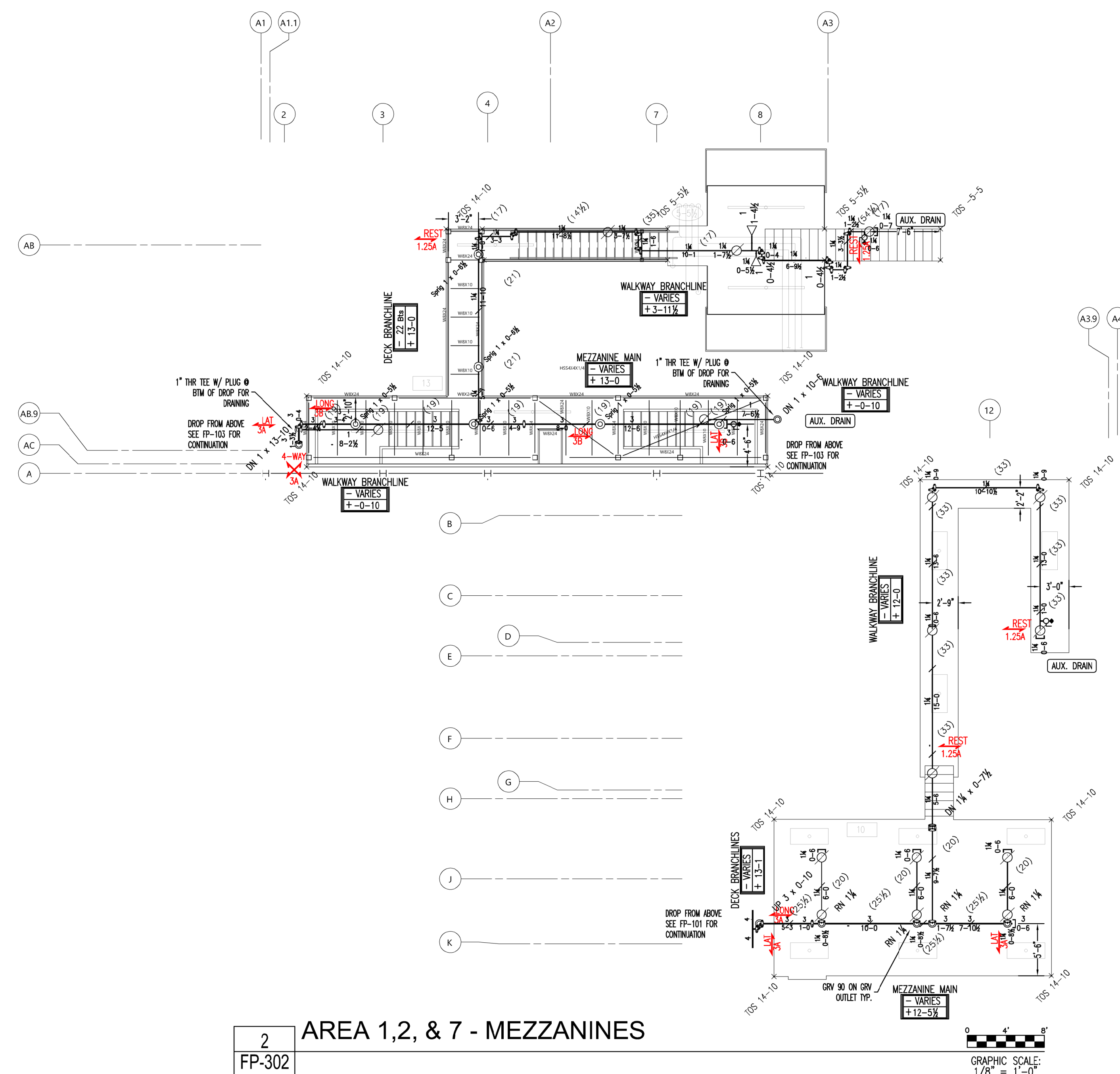
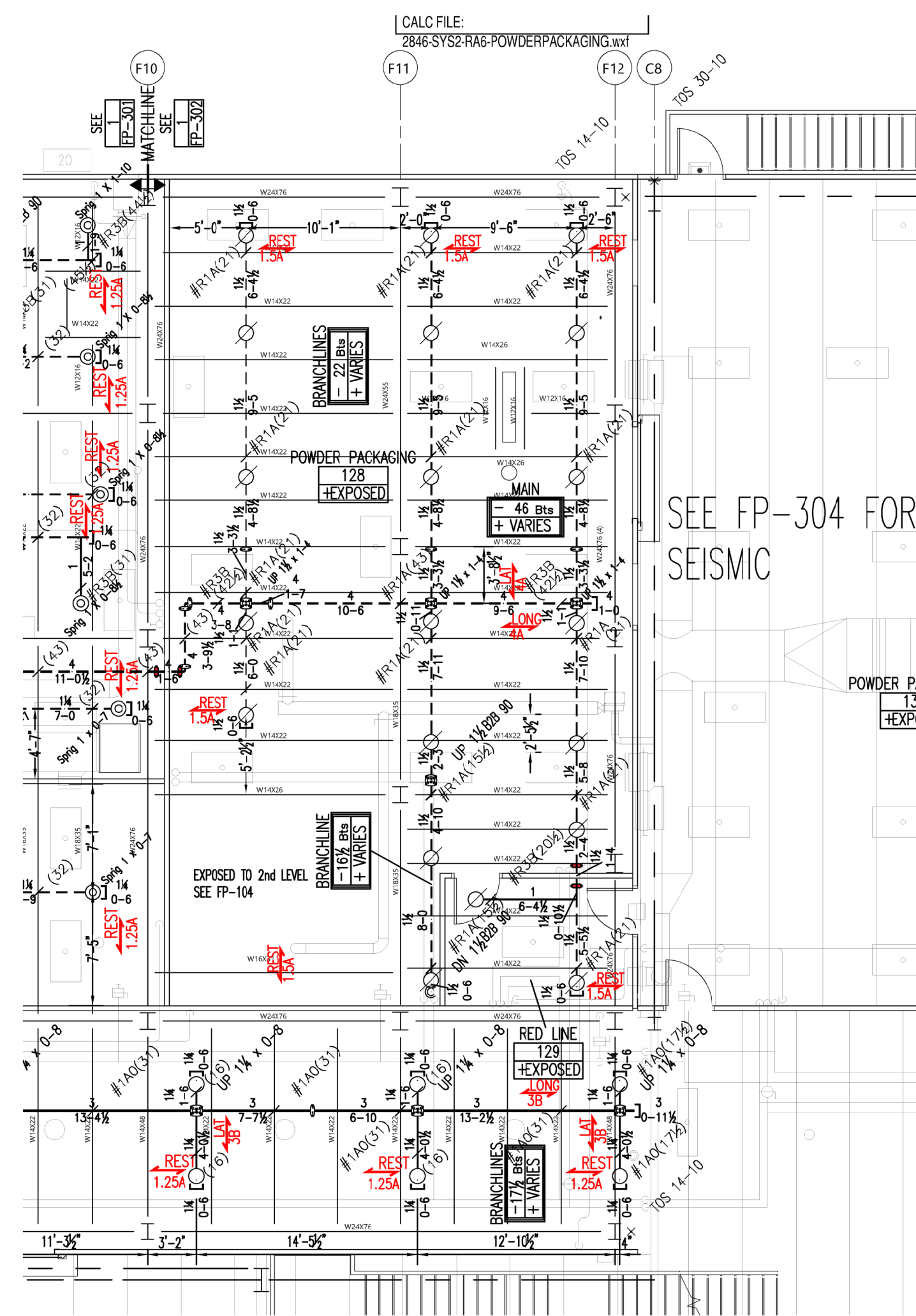
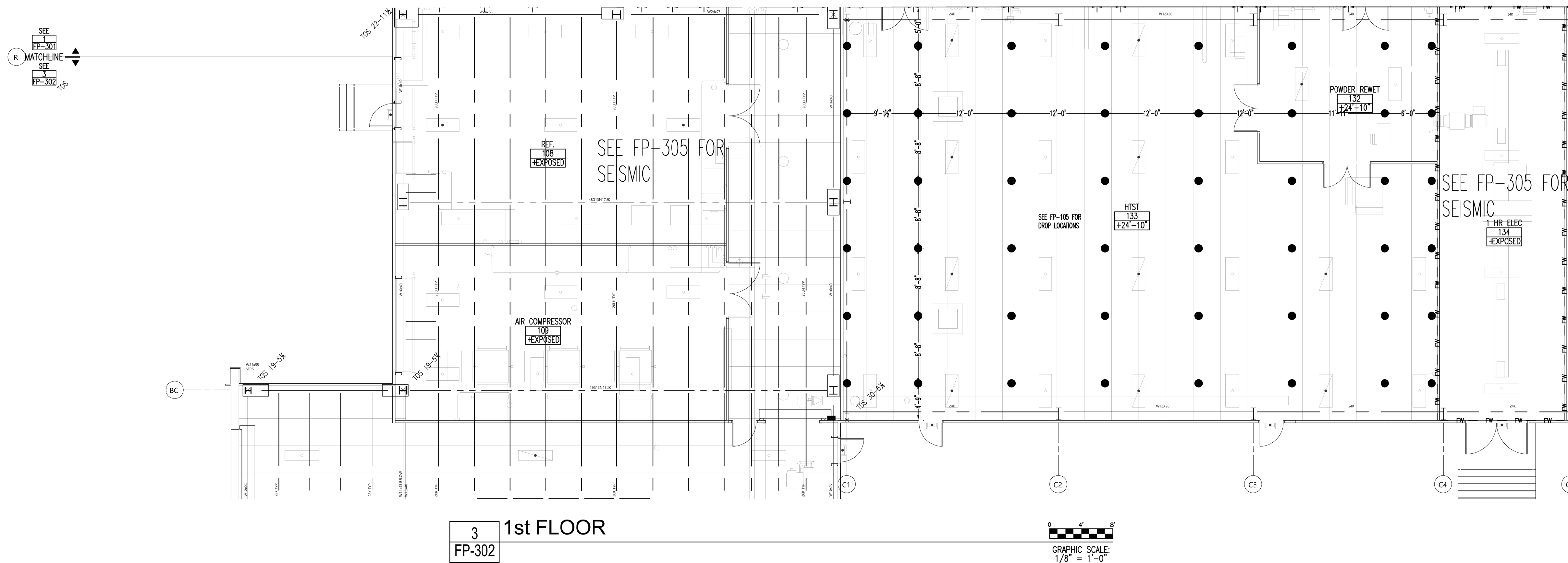
PROJECT MANAGER: DAVID KOERNER

DATE: 10/9/2020

CONTRACT NO: 2846

FABRICATION DOCUMENTS

FP-301



SEISMIC BRACING NOTES

THIS SYSTEM IS DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 - 2016 EDITION.

WHERE PIPING PASSES THROUGH WALLS, PLATFORMS, MEZZANINES, ROOFS, OR FLOORS PROVIDE A HOLE OR SLEEVE WITH A NOMINAL DIAMETER 2" LARGER FOR 1" - 3" PIPES, 4" LARGER FOR PIPES 4" AND LARGER. CLEARANCE IS NOT NEEDED WHEN WALL MATERIAL IS FRANGIBLE AND THE WALL DOES NOT HAVE A FIRE RATING.

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SPACING AND CONFIGURATION OF SEISMIC BRACING IS DESIGNED USING THE "ZONE OF INFLUENCE METHOD"

SEE SEISMIC LOAD CALCULATIONS INCLUDED IN SUBMITTAL DOCUMENTS.

LAT INDICATES THE LOCATION OF LATERAL SWAY BRACING - SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LATERAL BRACING WILL BE PROVIDED WITHIN 6" OF THE END OF THE PIPE, WITHIN 2" OF THE END OF ANY HORIZONTAL MANIFOLD PIPING LONGER THAN 6", AND WITHIN 2" OF ANY CHANGE IN DIRECTION GREATER THAN 6". SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

LONG INDICATES THE LOCATION OF LONGITUDINAL SWAY BRACING - SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LONGITUDINAL BRACING WILL BE PROVIDED WITHIN 40" OF THE END OF THE PIPE, AND WITHIN 2" OF ANY CHANGE IN DIRECTION GREATER THAN 6". SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

4-WAY INDICATES THE LOCATION OF 4-WAY SWAY BRACING - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 24" OF THE CENTERLINE OF VERTICAL PIPE. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

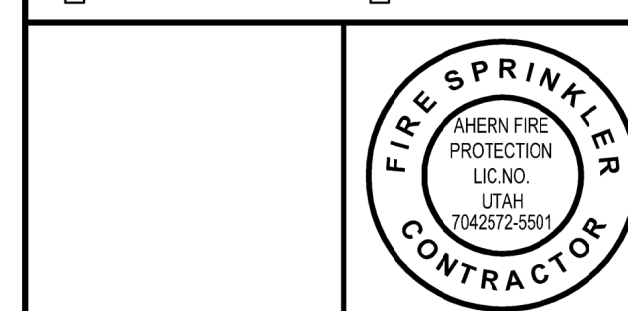
BRST INDICATES THE LOCATION OF BRANCH LINE RESTRAINT - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.

KEYPLAN



REV	DATE	ISSUANCE DESCRIPTION
1	06/27/20	ISSUANCE DESCRIPTION
2	06/27/20	ISSUANCE DESCRIPTION
3	06/27/20	ISSUANCE DESCRIPTION
4	06/27/20	ISSUANCE DESCRIPTION
5	06/27/20	ISSUANCE DESCRIPTION
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16	06/27/20	ISSUANCE DESCRIPTION
17	06/27/20	ISSUANCE DESCRIPTION
18	06/27/20	ISSUANCE DESCRIPTION
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20	06/27/20	ISSUANCE DESCRIPTION

REV	DATE	ISSUANCE DESCRIPTION
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6	06/27/20	ISSUANCE DESCRIPTION
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8	06/27/20	ISSUANCE DESCRIPTION
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10	06/27/20	ISSUANCE DESCRIPTION
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13	06/27/20	ISSUANCE DESCRIPTION
14	06/27/20	ISSUANCE DESCRIPTION
15	06/27/20	ISSUANCE DESCRIPTION
16	06/27/20	ISSUANCE DESCRIPTION
17	06/27/20	ISSUANCE DESCRIPTION
18	06/27/20	ISSUANCE DESCRIPTION
19	06/27/20	ISSUANCE DESCRIPTION
20	06/27/20	ISSUANCE DESCRIPTION



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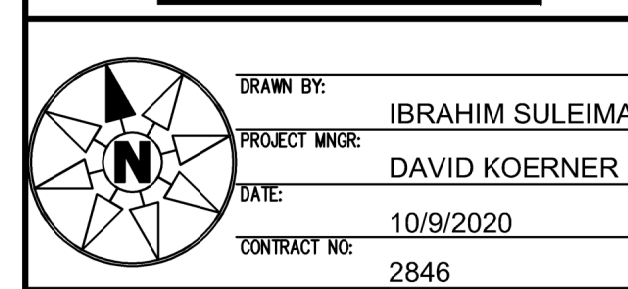
J. F. AHERN CO.
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 Fond du Lac, WI 54935
 (920) 921-9020 p (920) 921-8632 f
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WEST POINT DAIRY EXPANSION
 570 NORTH 500 WEST
 HYRUM, UTAH 84319

SEISMIC FIRE PROTECTION PLAN - 1st FLOOR-B&E

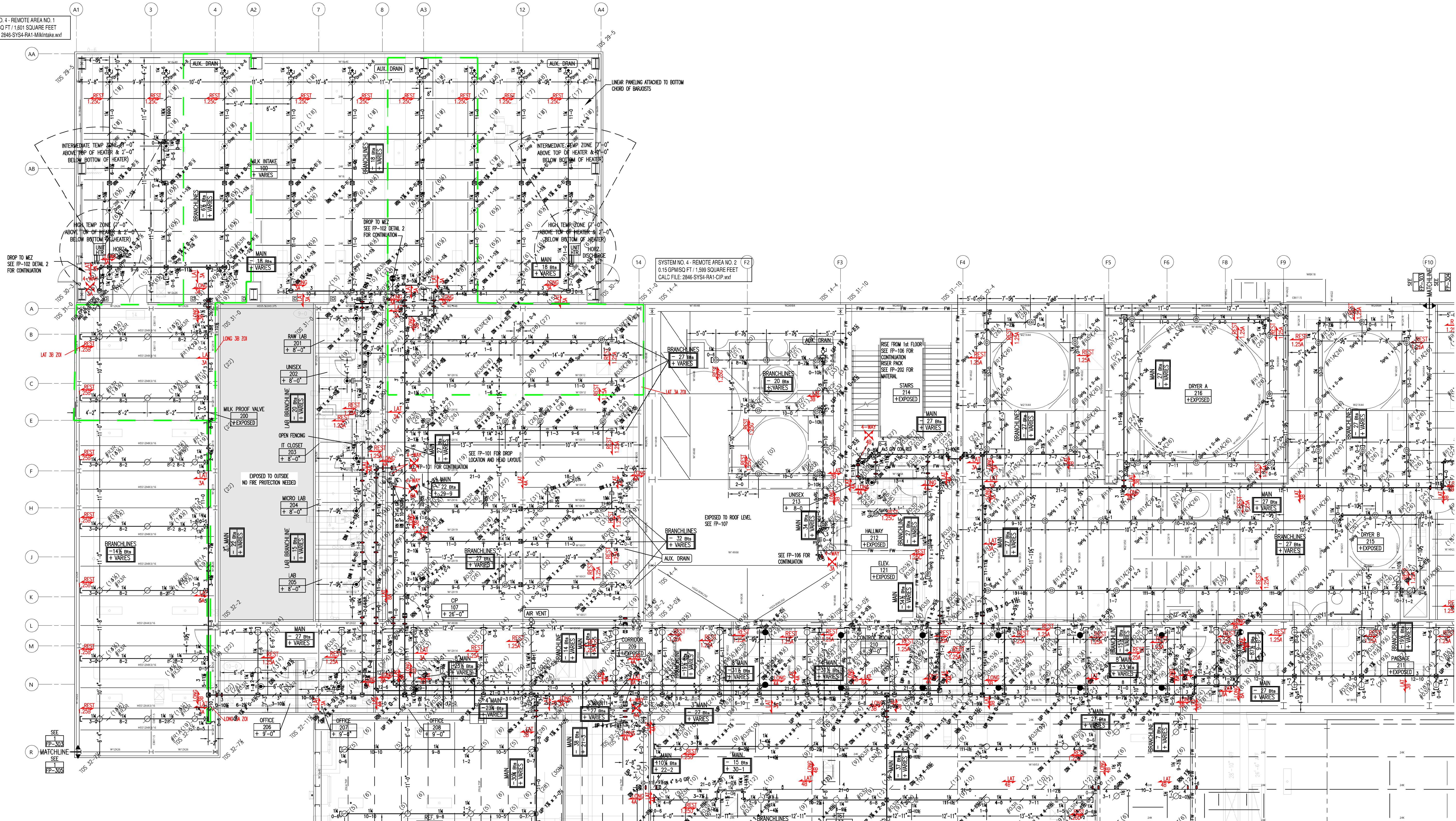
IF DRAWING IS PLOTTED CORRECTLY THIS BAR SHOULD MEASURE 2"



DESIGNED BY: IBRAHIM SULEIMAN
 PROJECT MANAGER: DAVID KOERNER
 DATE: 10/9/2020
 CONTRACT NO: 2846
 FABRICATION DOCUMENTS
 FP-302

"AS-BUILTS"
 06-27-2022

SYSTEM NO. 4 - REMOTE AREA NO. 1
0.15 GPM/SQ FT / 1,601 SQUARE FEET
CALC FILE: 2846-SYS4-RA1-MiniMake.wxl



1 2nd FLOOR
FP-303

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

PIPE LEGEND
BLACK: ———
GALV: - - -
*GALVANIZED CAST IRON
WALL PLATES TO BE
UTILIZED IN PROCESSING
AREAS
— = FLEX CPLG

SEISMIC BRACING NOTES

THIS SYSTEM IS DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 - 2016 EDITION

WHERE PIPING PASSES THROUGH WALLS, PLATFORMS, MEZZANINES, ROOFS, OR FLOORS PROVIDE A HOLE OR SLEEVE WITH A NOMINAL DIAMETER 2" LARGER FOR 1" - 3" PIPES, 4" LARGER FOR PIPES 4" AND LARGER. CLEARANCE IS NOT NEEDED WHEN WALL MATERIAL IS FRANGIBLE AND THE WALL DOES NOT HAVE A FIRE RATING.

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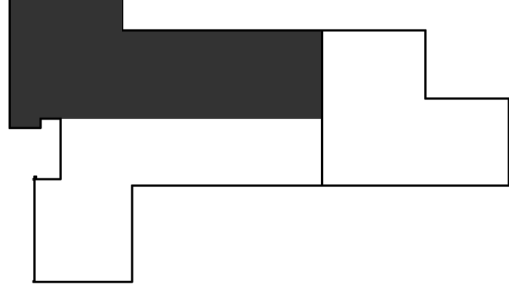
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INDICATES THE LOCATION OF LONGITUDINAL SWAY BRACING - SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LONGITUDINAL BRACING WILL BE PROVIDED WITHIN 40' OF THE END OF THE PIPE, AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

INDICATES THE LOCATION OF 4-WAY SWAY BRACING - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 24" OF THE CENTERLINE OF VERTICAL PIPE. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

INDICATES THE LOCATION OF BRANCH LINE RESTRAINT - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.

KEYPLAN



△		
△		
△		
△		
△		
△	06/27/22	ASBUILT
△	02/11/21	FABRICATION DOCUMENTS
△	11/23/20	SUBMITTAL DOCUMENTS
△	10/9/20	SUBMITTAL DOCUMENTS
REV	DATE	ISSUANCE DESCRIPTION
REVISION HISTORY		

AUTOMATIC SPRINKLER DESIGN BASED ON THE FOLLOWING ASSUMPTIONS:

□	NFPA 13 - 2016	□
□		□



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WEST POINT DAIRY
EXPANSION
570 NORTH AND 500 WEST
HYRUM, UTAH 84319

SEISMIC FIRE PROTECTION PLAN - 2nd FLOOR-A

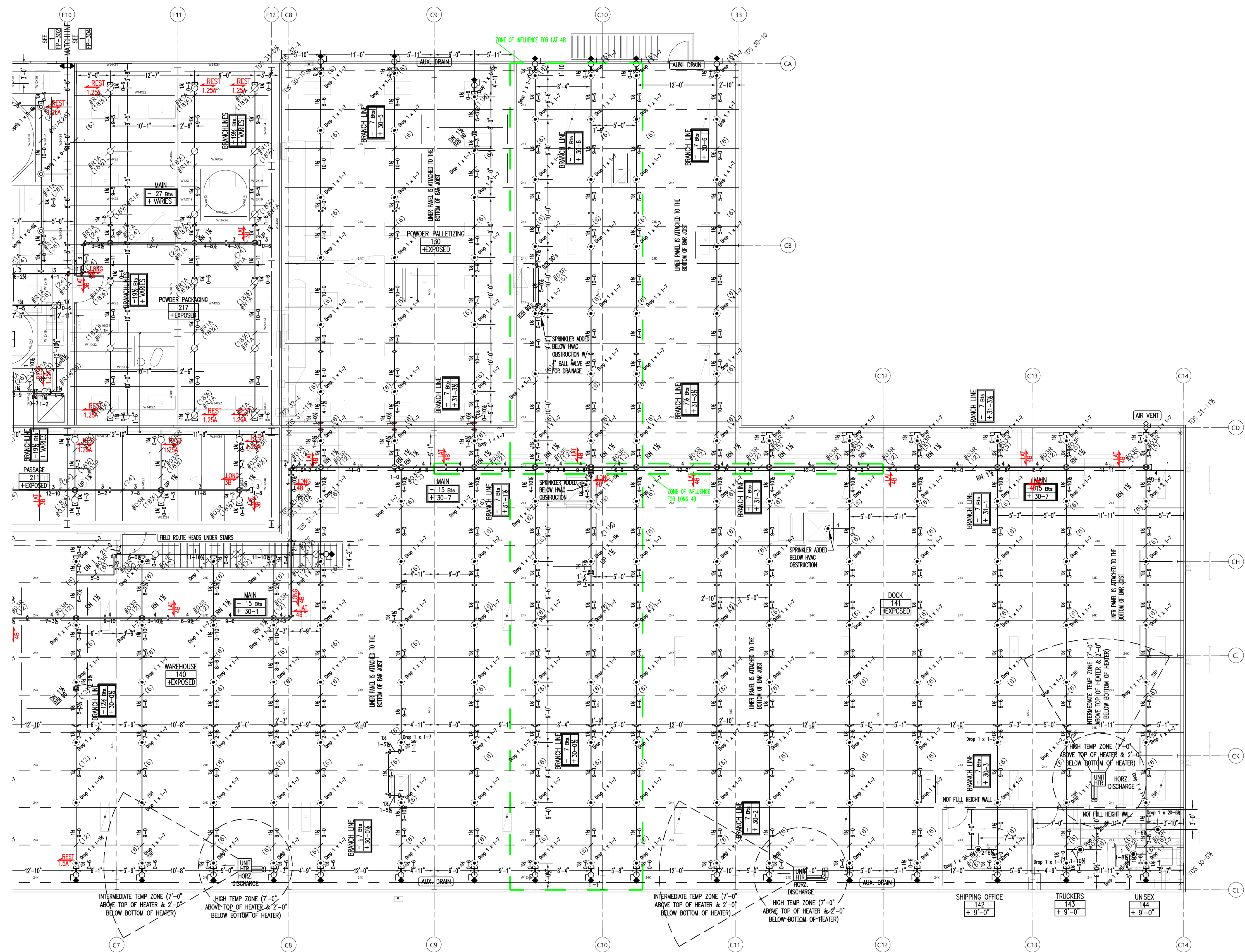
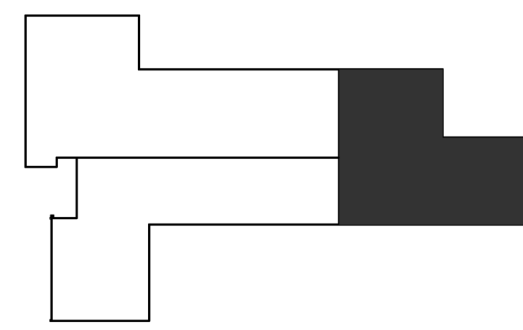
IF DRAWING IS PLOTTED CORRECTLY
THIS BOX SHOULD MEASURE 2"

DESIGNED BY:	IBRAHIM SULEIMAN
PROJECT MANAGER:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO.:	2846

FABRICATION DOCUMENTS

FP-303

"AS-BUILTS"
06-27-2022



1 2nd FLOOR - AREA B
FP-304

PIPE LEGEND

BLACK: —
GALV: - - -
*GALVANIZED CAST IRON
WALL PLATES TO BE
UTILIZED IN PROCESSING
AREAS

— = FLEX COUPL

SEISMIC BRACING NOTES

THIS SYSTEM IS DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 - 2016 EDITION

WHERE PIPING PASSES THROUGH WALLS, PLATFORMS, MEZZANINES, ROOFS, OR FLOORS PROVIDE A HOLE OR SLEEVE WITH A NOMINAL DIAMETER 2" LARGER FOR 1" - 3" PIPES, 4" LARGER FOR PIPES 4" AND LARGER. CLEARANCE IS NOT NEEDED WHEN WALL MATERIAL IS FRANGIBLE AND THE WALL DOES NOT HAVE A FIRE RATING.

CLEARANCE IS NOT REQUIRED WHERE FLEXIBLE COUPLINGS ARE PROVIDED WITHIN 12" OF EACH SIDE OF THE WALL OR FLOOR.

BRANCHLINE RESTRAINT WILL BE PROVIDED ON ALL BRANCHLINES WHERE THE HANGER ROD IS GREATER THAN 6" FROM THE TOP OF THE PIPE TO THE POINT OF ATTACHMENT. RESTRAINTS WILL BE PROVIDED WITHIN 24" OF A HANGER AND WITHIN 6" OF THE END OF THE BRANCHLINE.

SPACING AND CONFIGURATION OF SEISMIC BRACING IS DESIGNED USING THE "ZONE OF INFLUENCE METHOD"

SEE SEISMIC LOAD CALCULATIONS INCLUDED IN SUBMITTAL DOCUMENTS.

— Lateral — INDICATES THE LOCATION OF LATERAL SWAY BRACING - SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LATERAL BRACING WILL BE PROVIDED WITHIN 6" OF THE END OF THE PIPE, WITHIN 2' OF THE END OF ANY HORIZONTAL MANIFOLD PIPING LONGER THAN 6', AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

— Longitudinal — INDICATES THE LOCATION OF LONGITUDINAL SWAY BRACING - SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LONGITUDINAL BRACING WILL BE PROVIDED WITHIN 40' OF THE END OF THE PIPE, AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

— 4-Way — INDICATES THE LOCATION OF 4-WAY SWAY BRACING - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 24" OF THE CENTERLINE OF VERTICAL PIPE. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.

— Branch Line Restraint — INDICATES THE LOCATION OF BRANCH LINE RESTRAINT - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.

NOTES

- ALL HANGERS ARE #140 UNLO - SEE FP-004 FOR DETAIL
- SEE DETAIL #1 FOR DROP DETAIL

SPRINKLERS

MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM. "K"	CALC'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMB.	QUANTITY
WING	WING108	W108	SR	SR	1/2"	5.6k	130 SQFT	17-12"	220°	WHIT PLY	N/A	21475M/B	☐	3
WING	WING110	W110	SR	SR	1/2"	5.6k	130 SQFT	DRP	220°	BR	N/A	21475M/B	●	152
WING	WING110	W110	SR	SR	1/2"	5.6k	130 SQFT	DRP	286°	BR	N/A	21475M/B	●	12
WING	WING110	W110	SR	SR	1/2"	5.6k	225 SQFT	DRP	165°	CHR	E-1	21475M/B	●	4

"AS-BUILT'S"
06-27-2022

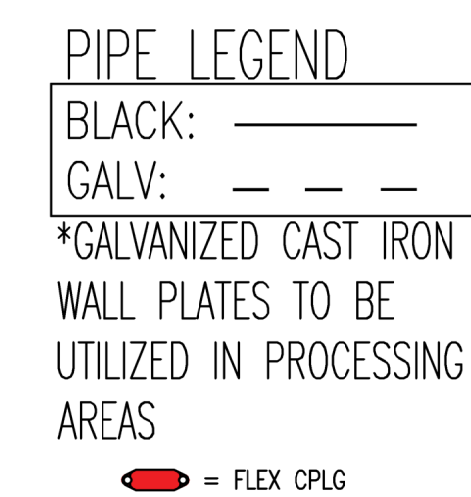
IF DRAWING IS PLOTTED CORRECTLY
THIS BAR SHOULD MEASURE 2"

DESIGNED BY: IBRAHIM SULEIMAN
PROJECT MANAGER: DAVID KOERNER
DATE: 10/9/2020
CONTRACT NO.: 2846

FABRICATION DOCUMENTS

FP-304

TOTAL SPRINKLERS ON THIS SHEET: 171



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WHERE PIPING PASSES THROUGH WALLS, PLATFORMS, MEZZANINES, ROOFS, OR FLOORS PROVIDE A HOLE OR SLEEVE WITH A NOMINAL DIAMETER 2" LARGER FOR 1" – 3" PIPES, 4" LARGER FOR PIPES 4" AND LARGER. CLEARANCE IS NOT NEEDED WHEN WALL MATERIAL IS FRANGIBLE AND THE WALL DOES NOT HAVE A FIRE RATING.

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SPACING AND CONFIGURATION OF SEISMIC BRACING IS DESIGNED USING THE "ZONE OF INFLUENCE METHOD"

SEE SEISMIC LOAD CALCULATIONS INCLUDED IN SUBMITTAL DOCUMENTS.

	INDICATES THE LOCATION OF LATERAL SWAY BRACING – SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. LATERAL BRACING WILL BE PROVIDED WITHIN 6" OF THE END OF THE PIPE, WITHIN 2' OF ANY HORIZONTAL MANIFOLD PIPING LONGER THAN 6', AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.
	INDICATES THE LOCATION OF LONGITUDINAL SWAY BRACING – SEE BRACE CALCULATIONS FOR ASSEMBLY DETAILS. LONGITUDINAL BRACING WILL BE PROVIDED WITHIN 40" OF THE END OF THE PIPE, AND WITHIN 2' OF ANY CHANGE IN DIRECTION GREATER THAN 6'. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.
	INDICATES THE LOCATION OF 4-WAY SWAY BRACING – SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 24" OF THE CENTERLINE OF VERTICAL PIPE. SEE BRACE CALCULATIONS FOR MAXIMUM SPACING.
	INDICATES THE LOCATION OF BRANCH LINE RESTRAINT – SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.

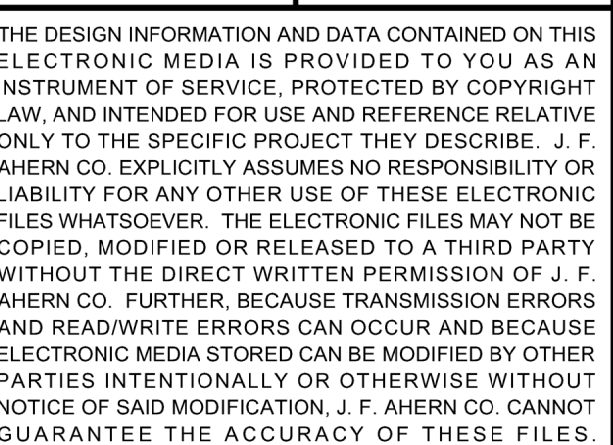
1. SEE DETAIL #1 FOR DROP DETAIL

HYDRAULIC CALCULATION INFORMATION - AREA DENSITY	
SYSTEM NUMBER: 3	EMULC. AREA: 844' (CALCULATION FILE: 2846-5953-844-WAREHOUSE)
HAZARD CLASSIFICATION: ORGANIZATIONAL HAZARD GROUP II	TOTAL SYSTEM AREA: 32,500 SQFT
W.D. DESIGN DATA - DENSITY: 0.20 GPM/SQFT	SO FT PER SPRINKLER: 130 SQFT
MINIMUM AREA OF APPLICATION: 1500 SQFT	TOTAL NUMBER OF SPRINKLERS: 15
SYSTEM REQUIREMENTS: 4.170 GPM @ 83 PSI	AT: BR2
HOSE ALLOWANCE: 150' GPM	HOSE ALLOWANCE OUTSIDE: 250' GPM
WATER SUPPLY INFORMATION - STATIC PRESSURE: 75'	RESIDUAL PRESSURE: 115'
TOTAL FLOW AVAILABLE: 1,444 GPM	ELEVATION: -13'-35"
TEST LOCATION: 4600 SOUTH 500 WEST	TEST DATE: 1/3/2020
APPROVALS: REQUIRED CITY OF HYRUM	

[illegible]

TOTAL SPRINKLERS ON THIS SHEET:	105
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△		
△		
△	06/27/22	ASBUILT
△	03/02/21	FABRICATION DOCUMENTS
△	02/14/21	FABRICATION DOCUMENTS
△	01/21/21	FABRICATION DOCUMENTS
△	01/19/21	FABRICATION DOCUMENTS
△	11/23/20	SUBMITTAL DOCUMENTS
△	10/9/20	SUBMITTAL DOCUMENTS
REV	DATE	ISSUANCE DESCRIPTION
		REVISION HISTORY

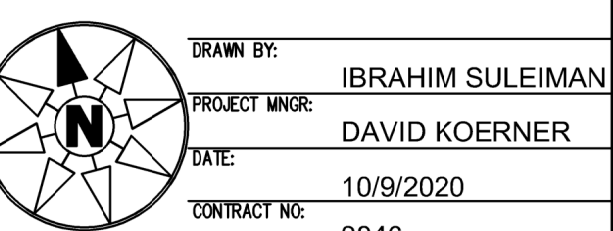


GENERAL CONTRACTOR
HANSEN-RICE INC
1717 E CHISHOLM DR.
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PH: (208) 465-0200
CONTACT:DEVIN GUY
(208) 550-1708

WEST POINT DAIRY
EXPANSION
570 NORTH AND 500 WEST
HYRUM, UTAH 84319

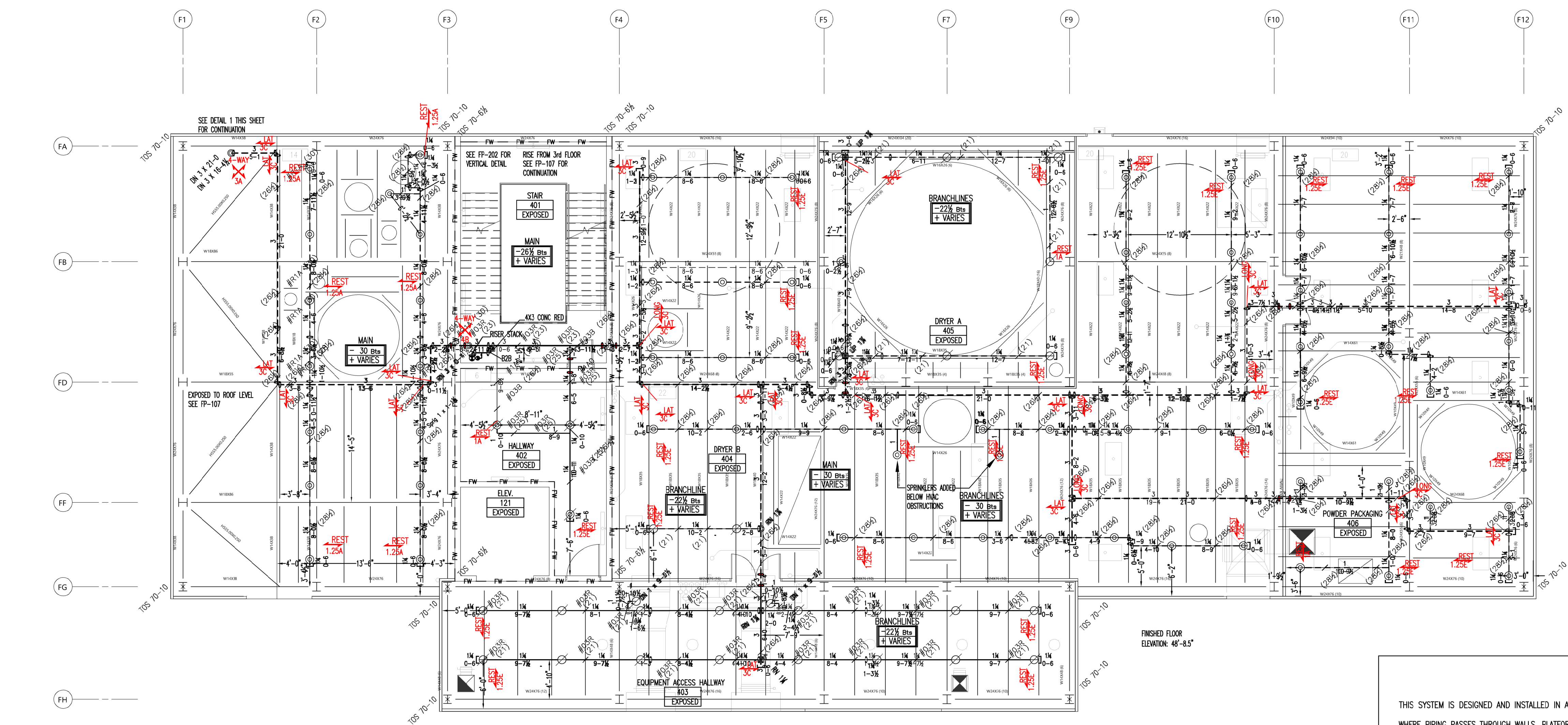
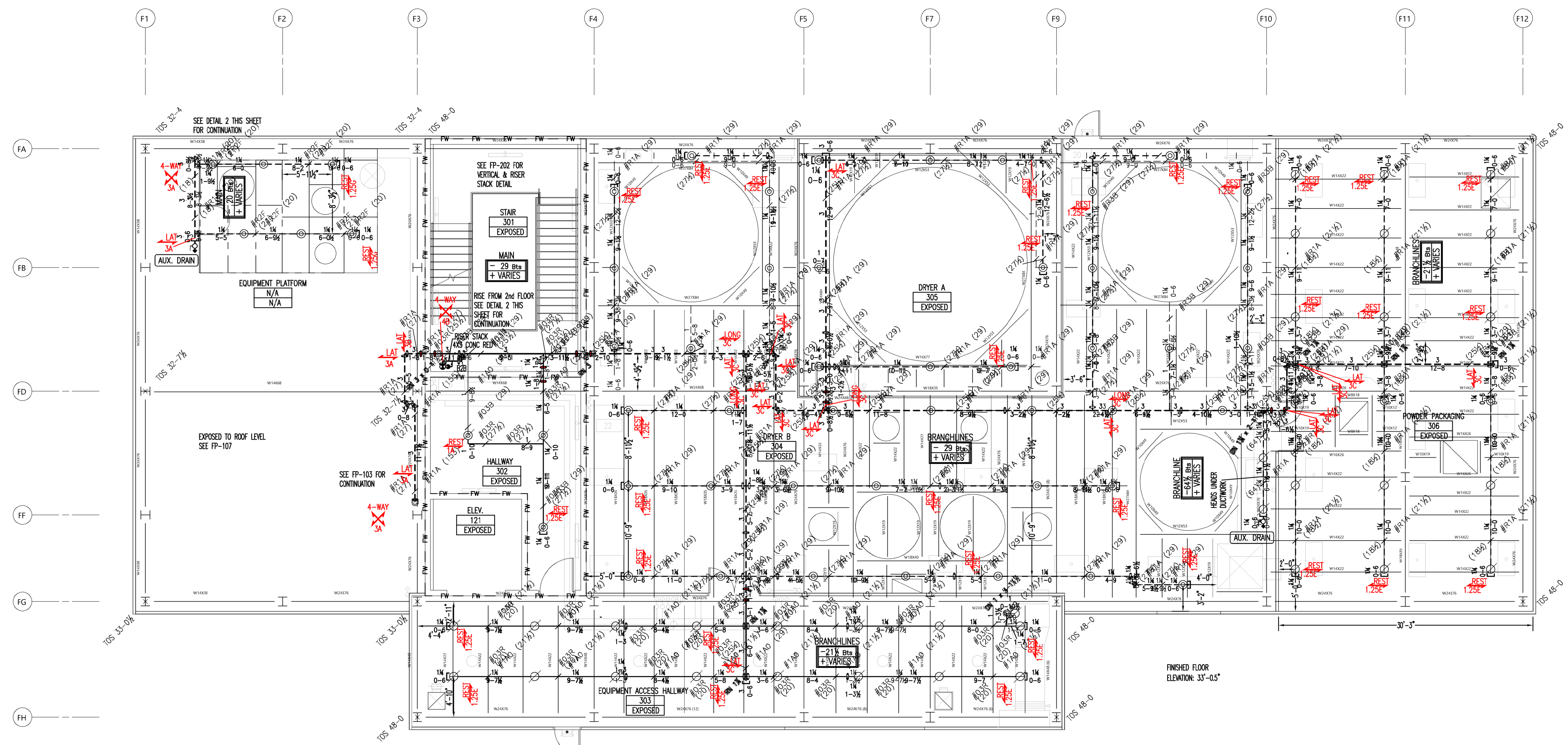
SEISMIC FIRE PROTECTION PLAN 2nd FLOOR - C

DRAWING IS PLOTTED CORRECTLY



FABRICATION DOCUMENTS

FP-305



PIPE LEGEND

BLACK: —

GALV: — — —

*GALVANIZED CAST IRON WALL PLATES TO BE UTILIZED IN PROCESSING AREAS

— = FLEX CPLG

SEISMIC BRACING NOTES

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SEE SEISMIC LOAD CALCULATIONS INCLUDED IN SUBMITTAL DOCUMENTS.

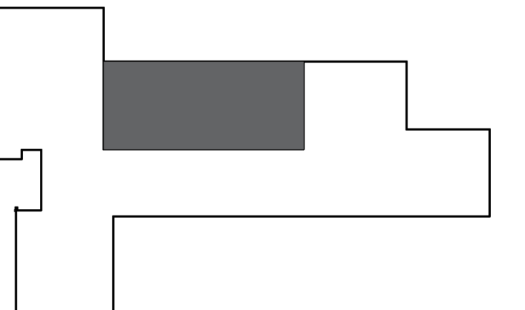
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— R — INDICATES THE LOCATION OF BRANCH LINE RESTRAINT - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.

KEYPLAN



REV	DATE	ISSUANCE DESCRIPTION	REVISION HISTORY
1	06/27/22	AS-BUILT	
2	03/19/21	FABRICATION DOCUMENTS	
3	02/11/21	FABRICATION DOCUMENTS	
4	11/23/20	SUBMITTAL DOCUMENTS	
5	10/9/20	SUBMITTAL DOCUMENTS	

1	NFPA 13 - 2016	1	
2		2	
3		3	



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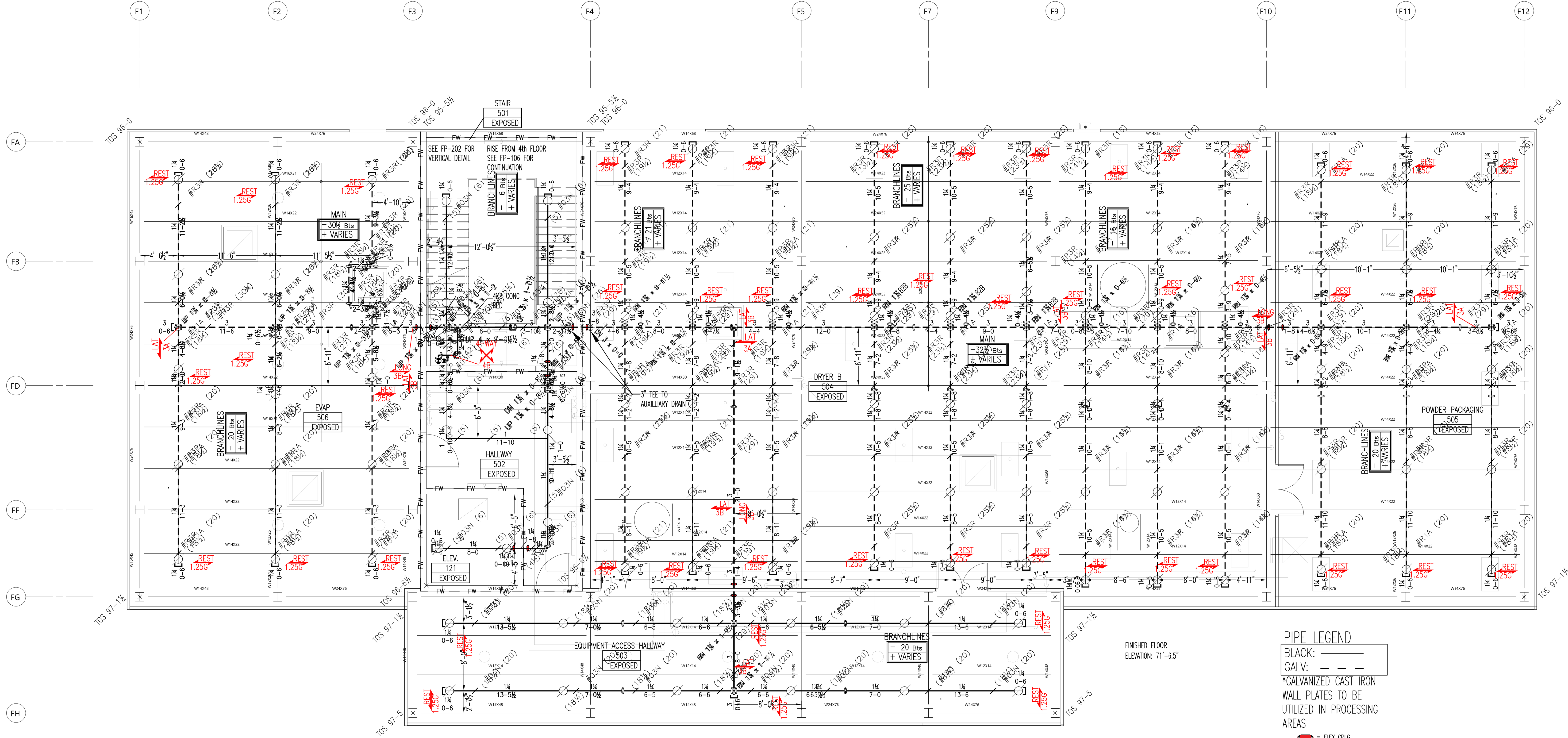
FIRE PROTECTION PLAN - 3rd & 4th FLOOR SEISMIC

IF DRAWING IS PLOTTED CORRECTLY THIS BOX SHOULD MEASURE 2"

DESIGNED BY:	IBRAHIM SULEIMAN
PROJECT MANAGER:	DAVID KOERNER
DATE:	10/9/2020
CONTRACT NO.:	2846

FABRICATION DOCUMENTS

FP-306



1 5th FLOOR
FP-307

GRAPHIC SCALE:
3/16" = 1'-0"

PIPE LEGEND
BLACK: —
GALV: - - -
*GALVANIZED CAST IRON
WALL PLATES TO BE
UTILIZED IN PROCESSING
AREAS
● = FLEX CPLG

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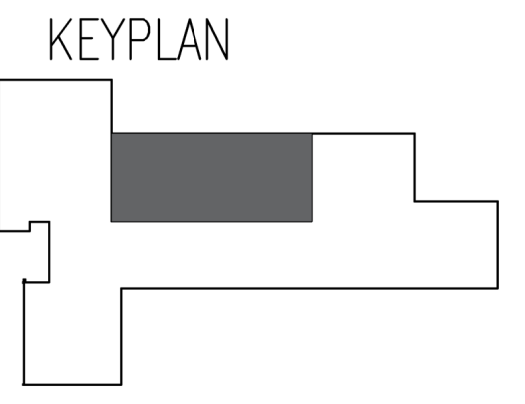
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REST INDICATES THE LOCATION OF BRANCH LINE RESTRAINT - SEE RESTRAINT CALCULATIONS FOR ASSEMBLY DETAILS. PROVIDE WITHIN 6" OF END HANGER ON THE BRANCHLINE. SEE RESTRAINT CALCULATIONS FOR MAXIMUM SPACING.



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NFPA 13 - 2016



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SEISMIC FIRE PROTECTION PLAN - 5th FLOOR

IF DRAWING IS PLOTTED CORRECTLY THIS BOX SHOULD MEASURE 2"

DESIGNED BY	IBRAHIM SULEIMAN
PROJECT MANAGER	DAVID KOERNER
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FP-307