

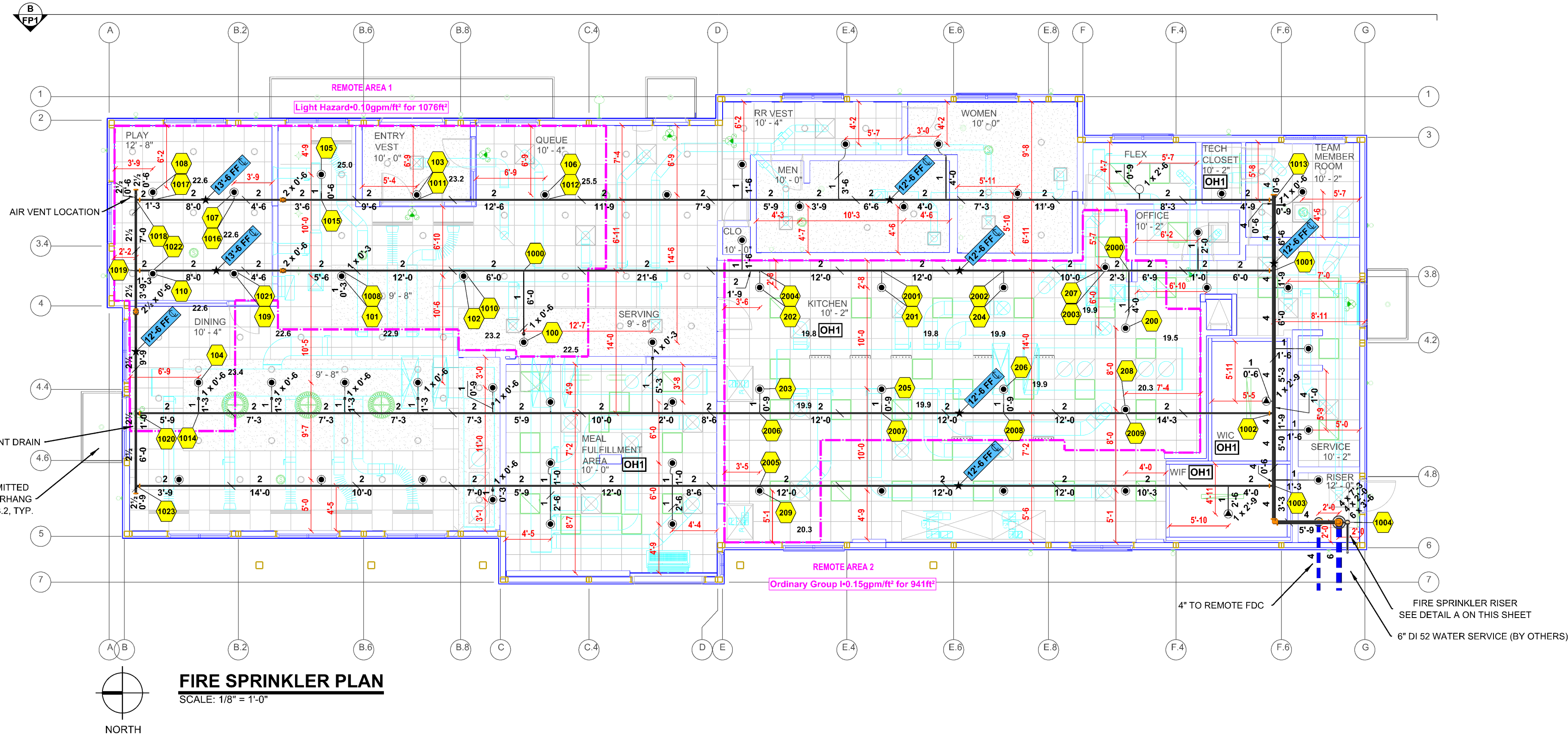
GENERAL INFORMATION

- INTERNATIONAL BUILDING CODE 2021
 - OCCUPANCY: TYPE A-2
 - TYPE OF CONSTRUCTION: V-B
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
MAIN FLOOR = 5,090 S.F.
 - DESIGN & INSTALLATION STANDARDS: NFPA-13 (2019)
- SPRINKLER PIPE TYPES:
 - WET
 - 2.1 1" PIPE TO BE SCHEDULE 40 BLACK STEEL w/ THREADED FITTINGS
 - 2.2 1-1/4" THROUGH 2" PIPE TO BE SCHEDULE 40 BLACK STEEL w/ GROOVED FITTINGS
 - 2.3 2-1/2" THROUGH 4" MAINS & BRANCH LINES TO BE BLK SCHEDULE 10 w/ GROOVED FITTINGS
 - 2.4 MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10
 - 2.5 2" AND LARGER TO USE GROOVED SHORT RADIUS FITTINGS
- DESIGN CRITERIA:
 - LIGHT HAZARD AREAS INCLUDE OFFICE/ADMINISTRATIVE, RESTROOMS, DINING, AND PLAY AREA
 - ORDINARY HAZARD GROUP I AREAS INCLUDE KITCHEN, MEAL FULFILLMENT, WALK IN COOLER/FREEZER, TECH CLOSET, AND RISER ROOM
 - REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 19.3.3.2.3.1
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 - SEE PLAN FOR HANGING REQUIREMENTS
- SYMBOLS USED ON DRAWINGS:
 - 0'-0 FF" PIPE ELEVATION ABOVE FINISH FLOOR
 - 0'-0 TS" PIPE ELEVATION BELOW TOP OF STEEL
 - OH1 ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD U.N.O.)
 - HYDRAULIC CALCULATION JUNCTION POINT
 - 9'-0" CEILING HEIGHT
 - WET BLACK STEEL PIPE
 - UNDERGROUND PIPE
- SCOPE OF WORK:
 - INSTALL A COMPLETE SINGLE ZONE WET FIRE SPRINKLER SYSTEM TO COVER ALL AREAS OF BUILDING
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13
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Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft ²)	0.10 for 1500ft ² (Actual 1076ft ²)
QUICK RESPONSE REDUCTION	12'-0 Ceiling (36.0%) 960ft ²
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	10
K-FACTOR	5.6
TOTAL WATER REQUIRED	324.8
TOTAL PRESSURE REQUIRED	43.2
BASE OF RISER (gpm) (Base of Riser)	224.8
BASE OF RISER (psi) (Base of Riser)	32.2
SAFETY MARGIN (psi)	+8.5 (16.5%)
REMOTE AREA #1 IS CALCULATED USING THE DENSITY/AREA METHOD. DESIGN AREA WAS SIZED IN ACCORDANCE WITH NFPA 13 (2019) 19.3.3.2.3.1	

CALC PLACARD

AIR VENT NOTE
PER NFPA 13 SECTION 16.7
AT THE DISCRETION OF THE INSTALLER,
AUTOMATIC AIR VENTS ARE TO BE INSTALLED
BY ONE OF THE FOLLOWING METHODS
1. MANUAL VALVE, MIN 1/2"
2. AUTOMATIC AIR VENT
3. REMOTE INSPECTOR'S TEST VALVE
4. OTHER APPROVED MEANS



Hydraulic Information	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft ²)	0.15 for 1500ft ² (Actual 941ft ²)
QUICK RESPONSE REDUCTION	10'-2 Ceiling (39.8%) 904ft ²
TOTAL HOSE STREAMS	250.0
TOTAL HEADS FLOWING	10
K-FACTOR	5.6
TOTAL WATER REQUIRED	449.2
TOTAL PRESSURE REQUIRED	32.5
BASE OF RISER (gpm) (Base of Riser)	199.2
BASE OF RISER (psi) (Base of Riser)	22.9
SAFETY MARGIN (psi)	+18.9 (36.9%)
REMOTE AREA #1 IS CALCULATED USING THE DENSITY/AREA METHOD. DESIGN AREA WAS SIZED IN ACCORDANCE WITH NFPA 13 (2019) 19.3.3.2.3.1	

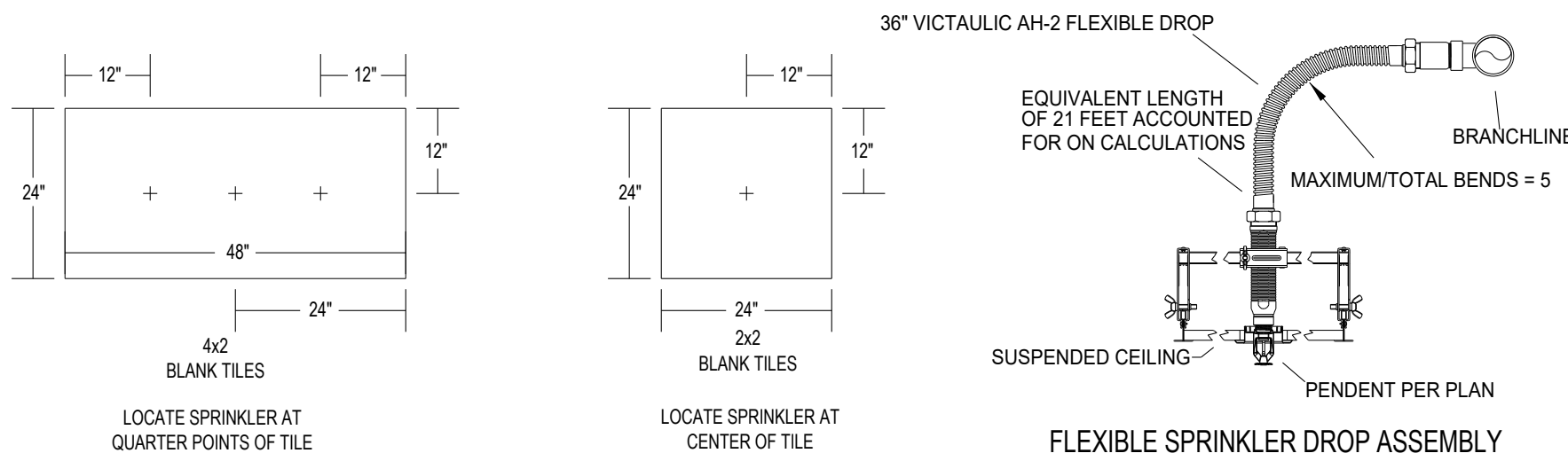


THIS DRAWING ISSUED FOR:
☐ PRE-BID SCHEMATIC
☐ BID SCHEMATIC
☐ INSTALLATION
☐ AS-BUILT

RISER ROOM LEGEND	
#	DESCRIPTION
1	6" FROM UNDERGROUND
2	6" GROOVED FLANGE ADAPTER NIPPLE w/ BNG KITS
3	6" X 4" GROOVED CONCENTRIC REDUCER
4	4" BUTTERFLY VALVE w/ TAMPER
5	4" SHOTGUN CHECK VALVE w/ DRAIN
6	4" GROOVED TEE
7	4" CHECK VALVE
8	4" GROOVED 90 ELBOW
9	4" GROOVED FLANGE ADAPTER NIPPLE w/ BNG KITS
10	2" MAIN DRAIN TO OUTSIDE
11	4" TO REMOTE FDC
12	4" TO SYSTEM
13	SPARE HEAD BOX - 6

Sprinkler Legend										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temp
○	Viking	VK300	Microfast	1	5.6	Upright	1/2"	Quick	Brass	200°F
●	Viking	VK4621		55	5.6	Concealed Pendant	1/2"	Quick	White	200°F
▲	Viking	VK160		2	5.6	Pendant	1"	Quick	Chrome	200°F
				Total = 58						

FLEX DROPS IN ACOUSTICAL TILE CEILINGS DETAIL

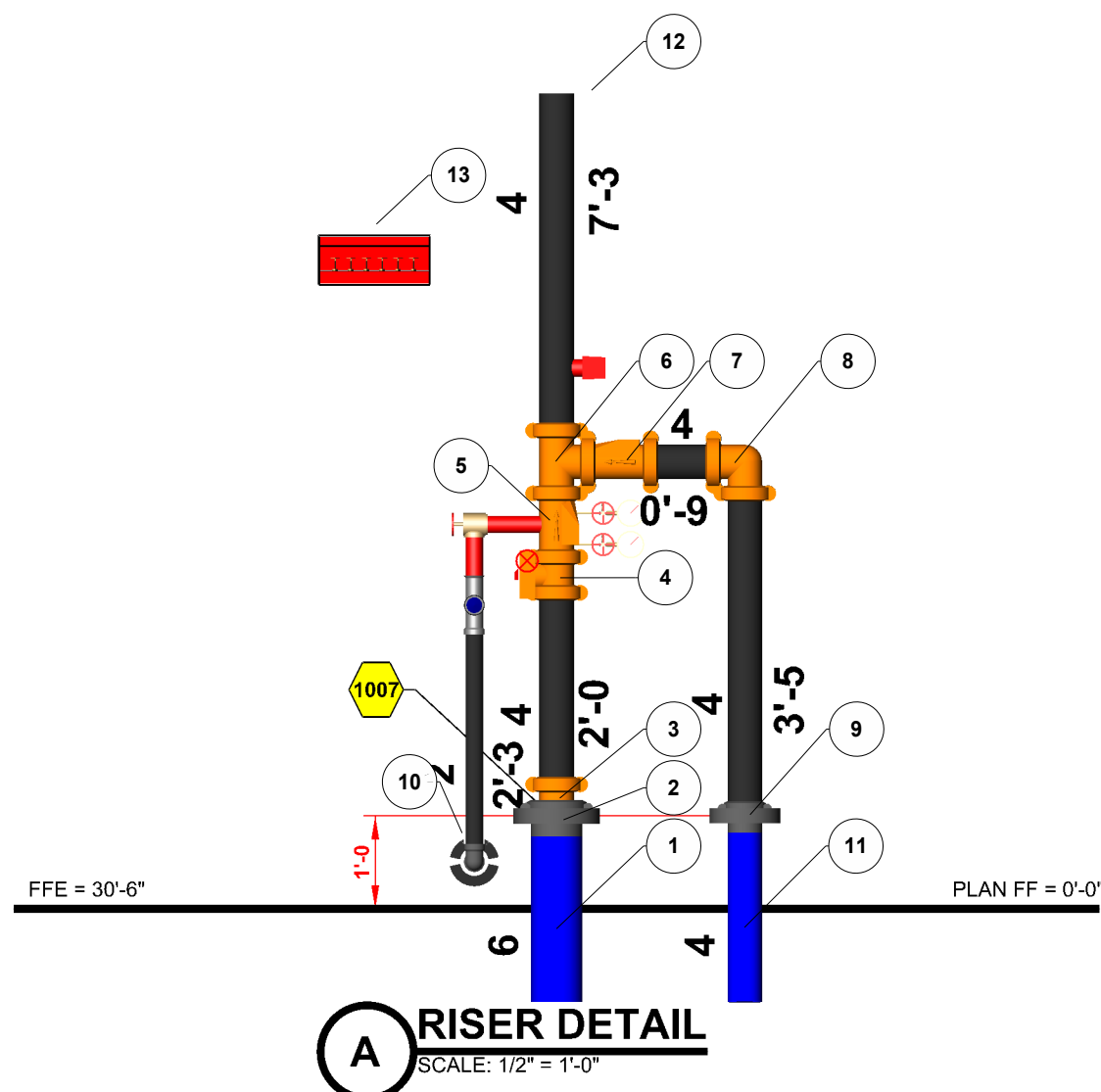
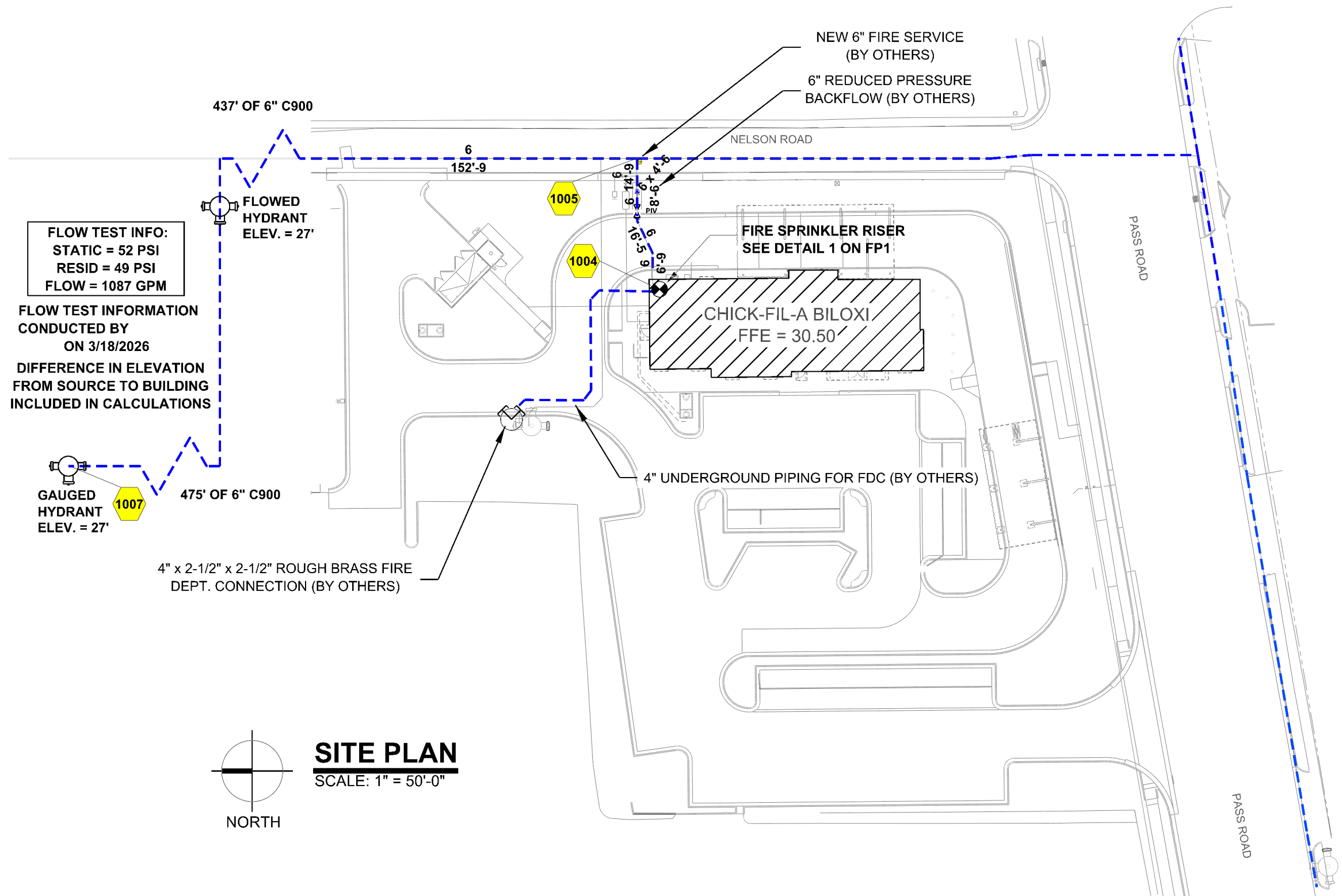


HANGER DETAILS

MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)								
STEEL PIPE EXCEPT THREADED LIGHTWALL	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	12-0	12-0	12-0	15-0	15-0	15-0	15-0	15-0

HANGER NO. 015
STEEL BEAM C-CLAMP
TOP BEAM C-CLAMP
WITH LOCK NUT
ALL THREAD ROD
SWIVEL RING
PIPE

HANGER NO. 175
STEEL SAMMY SCREW
AND ROD
1/2 PURLIN DEPTH MAX.
Z PURLIN
SAMMY SCREW
3/8\"



Chick-Fil-A Biloxi
2356 Pass Road, Biloxi, MS 39531
FIRE SPRINKLER PLAN

PROJECT NO:
226017
DRAWN BY:
Jack F
ISSUE DATE:
04/08/26

FP1