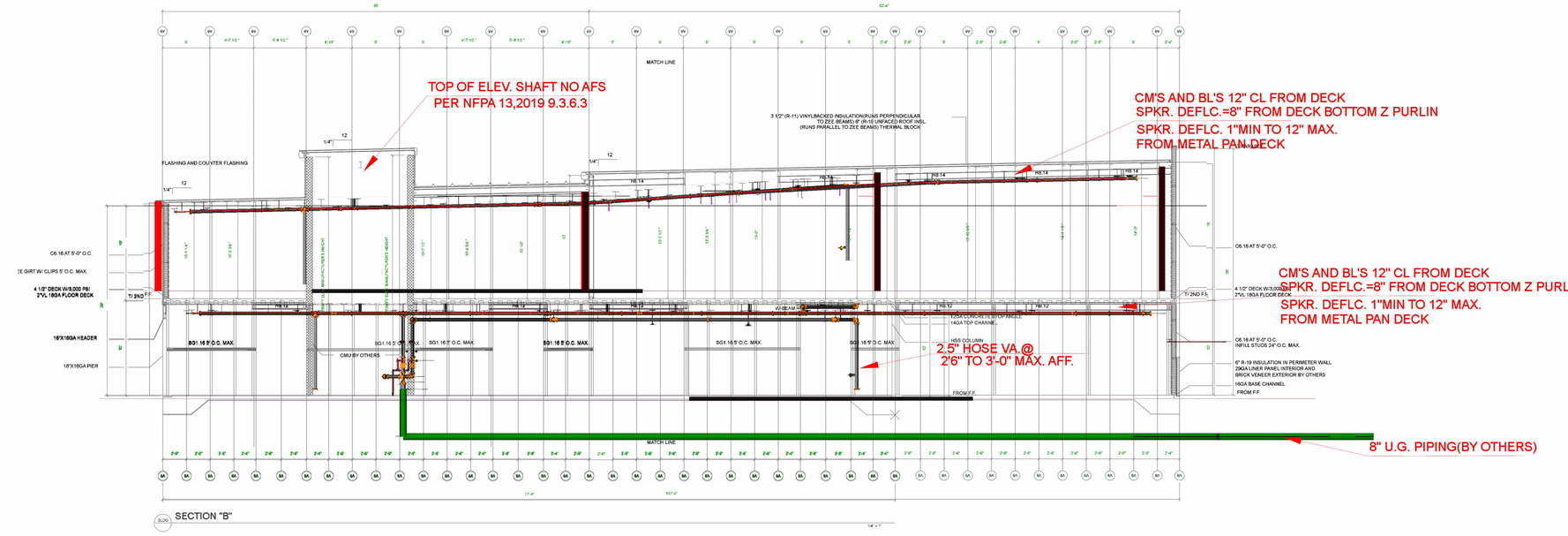
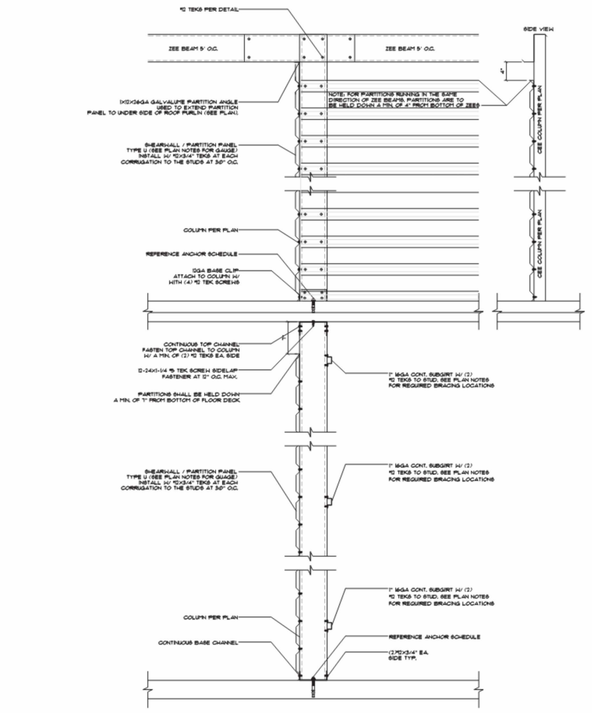
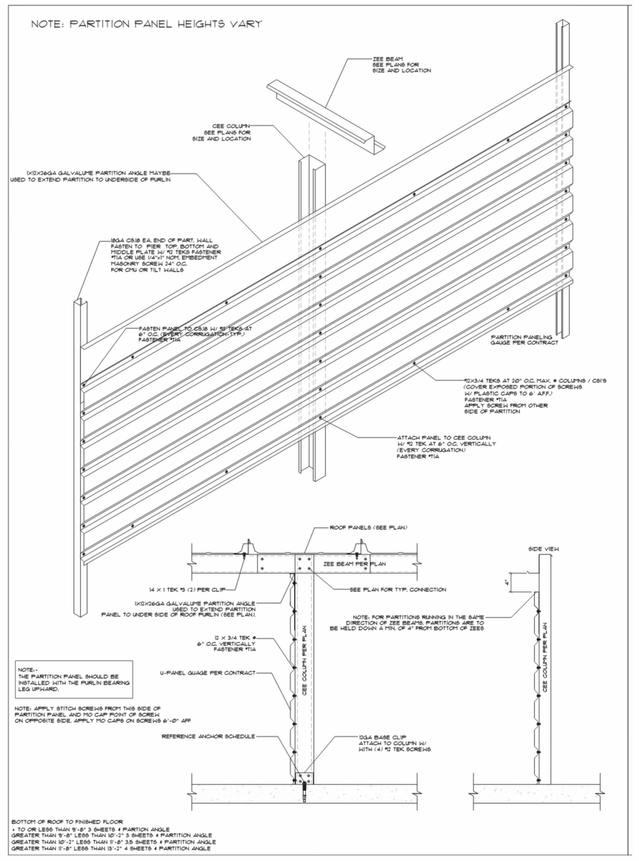


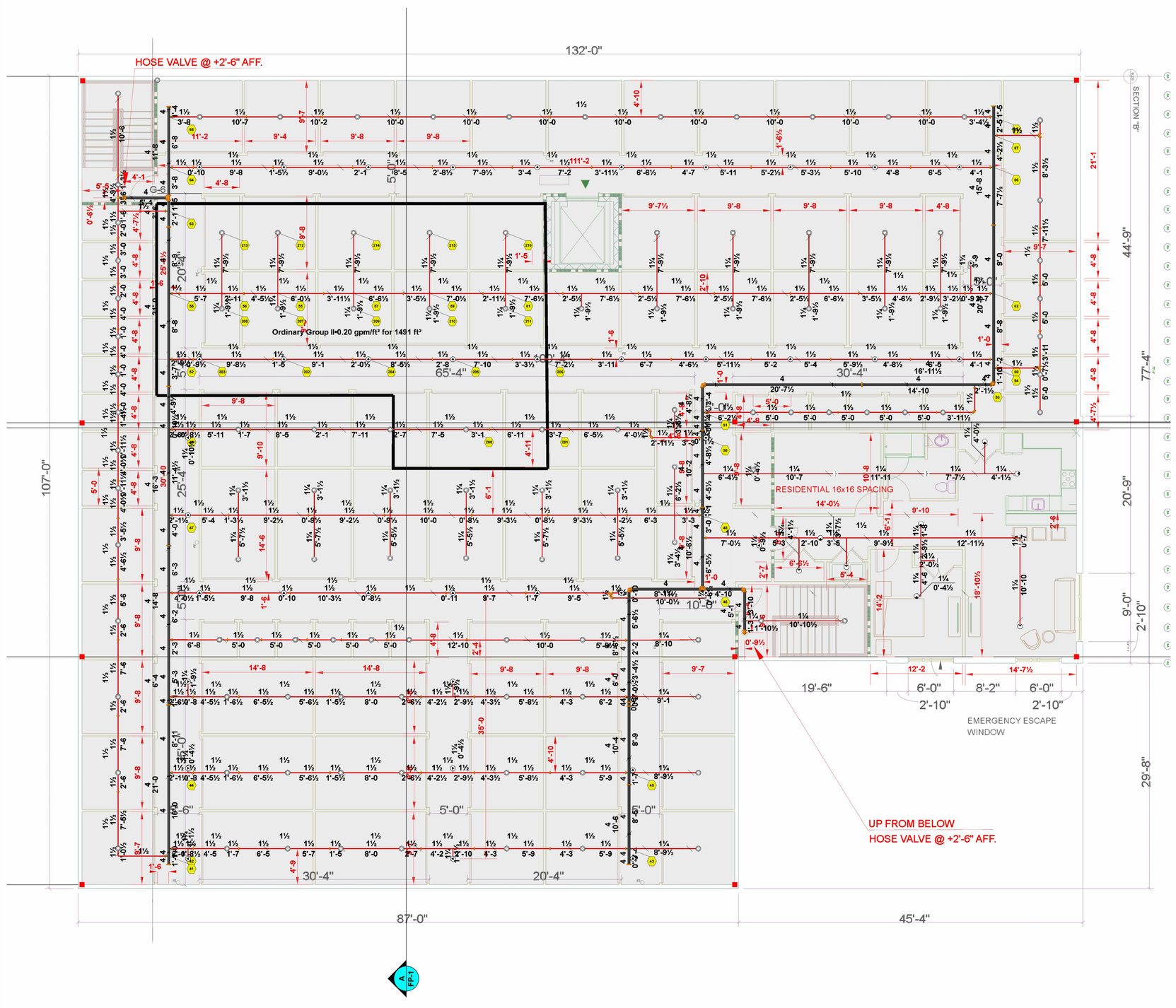
CROSS SECTION DETAIL

CROSS SECTION DETAIL





PARTITION WALL DETAILS



Riser Tag

Design Basis	
Occupancy:	Ordinary Group II
Total Sprinklers:	336
Number Of Sprinklers Calculated:	17
Number Of Nozzles Calculated:	0
K-Factor:	5.6
Orifice Size:	0
Design Density:	0.20 gpm/ft²
Average Density:	0.19 gpm/ft²
Area of Application:	1500 ft² (Actual 1491 ft²)
Demand at Base Of Riser or Point Of Connection	
Total Demand Flow(gpm):	4.12
Pressure(psi):	12.128
Water Supply Information At Time Of Design	
Static Pressure(psi):	60.000
Residual Pressure(psi):	25.000
Supply Flow(gpm):	907.00
Total Demand Flow(gpm):	532.51
Total Demand Pressure(psi):	25.707
Safety Margin(psi):	23.117

Remote Area 2

OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY (gpm/ft²)	0.20 for 1500 ft² (Actual 1491 ft²)
TOTAL HOSE STREAMS	250.00
DRY CAPACITY	0.00 gal
TOTAL HEADS FLOWING	17
K-FACTOR	5.6
TOTAL WATER REQUIRED	532.51
TOTAL PRESSURE REQUIRED	25.707
BASE of RISER (gpm)	532.51
BASE of RISER (psi)	25.707
SAFETY MARGIN (psi)	+23.117 (47.3%)

FIRE PROTECTION PIPING PLAN

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

MIDGARD SELF STORAGE

2 ND. FLOOR

0' 1' 2' 4' 8' 16'
1/8" = 1'-0"

PLOT DATE: 07/23/24 FILE NAME: SPRINGLAKE FP-1 a.dwg

INTERNATIONAL FIRE PROTECTION INC.
POWERED BY API Group
6935 Oak Ridge Commerce Way
Austell,Georgia 30168
Tel.: (770) 745-4530 Fax: (770) 745-8730
WWW.IFPCOM.COM

STAMP

NORTH CAROLINA FIRE SPRINKLER LICENSING BOARD
INTERNATIONAL FIRE PROTECTION INC.
P. O. BOX 1307
AUSTELL, GA 30168
Edward B. Smith

ACT	ACOUSTICAL CEILING TILE	N.I.C.	NOT IN CONTRACT
BFV	BUTTERFLY VALVE	N.T.S.	NOT TO SCALE
CL.	CENTER LINE	O.C.	ON CENTER
CON	CONCENTRIC	OS&Y	OUTSIDE SCREW & YOKE
CT	CENTER OF TILE	RED	REDUCER
EJ	EXPANSION JOINT	RN	RISER NIPPLE
GALV	GALVANIZED	SPR	SPRINKLER
GWB	GYPSUM (DRYWALL)	THD	THREADED

ABBREVIATIONS

MADISON, AL | MOBILE, AL | BIRMINGHAM, AL | CHATTANOOGA, TN | NASHVILLE, TN | ATLANTA, TN | TIFTON, GA | PLANT CITY, FL | LITTLE ROCK, AR | MARION, SC

IMPORTANT
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NO.	DATE	REVISIONS DESCRIPTION	BY
1		Denotes Hydraulic Calculation Reference Point	

DRAWN BY: D.PEOPLES

DATE: JULY 12,2024

SCALE: as noted

JOB NAME:
MIDGARD SELF STORAGE
14396 NC 210 S
SPRING LAKE, NC. 28390

SHEET NAME
FIRE PROTECTION PIPING PLAN T.I.

CONTRACT NUMBER
1041-0126884

SHEET NUMBER
FP-2 of 2