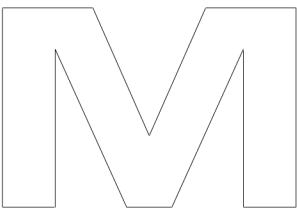


## FIRE PROTECTION PLANS



**F. E. MORAN, INC. FIRE PROTECTION**  
16815 COLLEGE BLVD.  
LENEXA, KS 66219  
(217) 356-0700 (217) 356-0777 FAX

MISSOURI COA: E-2022012018

## SCOPE OF WORK

### SCOPE OF WORK:

- \*\* FURNISH & INSTALL (11) NEW WET PIPE SPRINKLER SYSTEM FOR THE NEW BUILDING.
- \*\* FURNISH & INSTALL A NEW FIRE PUMP AND ACCESSORIES
- \*\* FIRE PUMP ROOM POINT OF CONNECTION (START OF CONTRACT): 10" FLANGE, 12" ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM.
- \*\*FEED RISER POINT OF CONNECTION (START OF CONTRACT): 8" FLANGE, 12" ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM. TWO LOCATED ON EACH END OF THE BUILDING AND ONE ON EACH SIDE.
- \*\* INSTALL (18) 2 1/2" HOSE VALVES LOCATED AT MAN DOORS AND FED FROM ADJACENT SYSTEMS

### NOT INCLUDED:

- \*\* WIRING OF ELECTRICAL DEVICES
- \*\* FIRE EXTINGUISHERS
- \*\* STANDPIPES AND HOSE STATIONS
- \*\* FIRE PUMP CONTROLLER AUTO TRANSFER SWITCH
- \*\* UNDERGROUND PIPING AND TESTING
- \*\* COLUMN SPRINKLERS
- \*\* SEISMIC BRACING
- \*\* PAINTED PIPING
- \*\* CONCRETE PADS
- \*\* COMPONENT IDENTIFICATION BEYOND NFPA 13 REQUIREMENTS
- \*\* ACCESS PANELS
- \*\* CUTTING AND PATCHING
- \*\* PIPE SLEEVES
- \*\* WALL POST INDICATOR VALVE
- \*\* PUMP CONTROLLER AUTOMATIC TRANSFER SWITCH

## CODE INFORMATION

### CODE INFORMATION:

- \*\*NFPA 13, 2016 EDITION: INSTALLATION OF SPRINKLER SYSTEMS
- \*\*NFPA 20, 2016 EDITION: INSTALLATION OF CENTRIFUGAL FIRE PUMPS
- \*\*INTERNATIONAL BUILDING & FIRE CODE, 2018 EDITION
- \*\*LOCAL AMENDMENTS

### BUILDING INFO:

- IBC OCCUPANCY CLASSIFICATION: S-1
- IBC CONSTRUCTION TYPE: I-B
- IBC SEISMIC DESIGN CATEGORY: B
- HIGHEST FLOOR ELEVATION FROM FIRE DEPARTMENT VEHICLE ACCESS: GRADE
- NUMBER OF STORIES: 1
- BUILDING AREA: 433,364 S.F.

## GENERAL REQUIREMENTS

- \*\* SUPPLY A SPARE SPRINKLER CABINET WITH WRENCH FOR EACH SPRINKLER TYPE AS REQUIRED BY NFPA 13.
- \*\* IDENTIFY ALL HYDRAULICALLY CALCULATED SYSTEMS WITH A PERMANENTLY MARKED AND WEATHERPROOF SIGN.

- \*\* ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT MORE THAN 20 SPRINKLERS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 60 PSI OVER THE SYSTEM WORKING PRESSURE. THE SYSTEM SHALL MAINTAIN THIS PRESSURE WITHOUT LOSS FOR 2 HOURS.
- \*\* ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT 20 SPRINKLERS OR LESS SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE.
- \*\* ALL PIPING MODIFICATIONS WHICH CANNOT BE ISOLATED FROM THE EXISTING SYSTEM, SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE.
- \*\* THE LOCAL FIRE/BUILDING INSPECTOR IS TO BE NOTIFIED 48 HOURS IN ADVANCE OF ALL TESTING.

- UNDERGROUND TESTING AND FLUSHING:
  - \*\* ALL UNDERGROUND PIPE SHALL BE TESTED AND FLUSHED BY THE INSTALLING CONTRACTOR AS REQUIRED BY NFPA 24 BEFORE ANY OVERHEAD SPRINKLER PIPING IS CONNECTED.

- VALVES
  - \*\* ALL VALVES CONTROLLING WATER FLOW TO SPRINKLERS SHALL BE INDICATING & SUPERVISED.
  - \*\* ALL VALVES SHALL BE ACCESSIBLE AT ALL TIMES AND PERMANENTLY IDENTIFIED.
  - \*\* THE IDENTIFICATION OF CONTROL VALVES SHALL INCLUDE A DESCRIPTION OR DIAGRAM OF WHAT THEY CONTROL.
  - \*\* ALL TRAPPED PORTIONS OF SPRINKLER PIPING SHALL BE PROVIDED WITH A LOW POINT DRAIN AS REQUIRED BY NFPA 13.

## VALVES

- \*\* ALL VALVES CONTROLLING WATER FLOW TO SPRINKLERS SHALL BE INDICATING & SUPERVISED.
- \*\* ALL VALVES SHALL BE ACCESSIBLE AT ALL TIMES AND PERMANENTLY IDENTIFIED.
- \*\* THE IDENTIFICATION OF CONTROL VALVES SHALL INCLUDE A DESCRIPTION OR DIAGRAM OF WHAT THEY CONTROL.
- \*\* ALL TRAPPED PORTIONS OF SPRINKLER PIPING SHALL BE PROVIDED WITH A LOW POINT DRAIN AS REQUIRED BY NFPA 13.

## PIPE HANGERS

- \*\* 2 1/2"-6" HANGER RINGS ARE TO BE ADJUSTABLE SWIVEL RINGS, ZINC PLATED, MANUFACTURED TO ANS/MSS SP-89 STANDARDS.
- \*\* 2 1/2"-6" CLEVIS HANGERS ARE TO BE ADJUSTABLE CLEVIS RINGS, PLAIN, MANUFACTURED TO ANS/MSS SP-89 STANDARDS.
- \*\* HANGERS AND SEISMIC BRACING ARE TO BE INSTALLED PER NFPA 13 REQUIREMENTS.
- \*\* HANGER ROD SIZES AND LOCATIONS ARE TO BE AS REQUIRED BY NFPA 13.

## WET SYSTEM PIPE & FITTINGS

### WET-PIPE SPRINKLER SYSTEM BLACK PIPE:

- \*\* 1" LINE PIPING SHALL BE BLACK STEEL SCH. 40 PIPE, MANUFACTURED TO ASTM A63 OR A795 STANDARDS.
- \*\* 2 1/2" LINE PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

- \*\* 8" MAIN PIPING SHALL BE BLACK STEEL SCH. 10 PIPE, MANUFACTURED TO ASTM A135 STANDARDS.
- \*\* 2'-6" MAIN PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

### WET-PIPE SPRINKLER SYSTEM BLACK FITTINGS:

- \*\* 1" BRANCH LINE FITTINGS SHALL BE BLACK DUCTILE IRON THREADED, CLASS 150 STANDARD, MANUFACTURED PER ANS/ASME B16.3, U.L. LISTED FOR FIRE PROTECTION USE UP TO 175 PSI WORKING PRESSURE.
- \*\* 1/2" - 3" BRANCH LINE PIPE OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS.
- \*\* 1 1/4"-3" BRANCH LINE FITTINGS SHALL BE STANDARD GROOVED DUCTILE IRON, MANUF. TO ASTM A536 STANDARDS.

- \*\* 2 1/2"-8" MAIN PIPE BRANCH OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS.
- \*\* 2 1/2"-8" MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED DUCTILE IRON, MANUF. TO ASTM A536 STANDARDS.
- \*\* 2 1/2"-8" MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED STEEL, MANUF. TO ASTM A536/A53 STANDARDS.

## DESIGN CRITERIA - ESFR

### SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

- FROM NFPA 13, 2016 EDITION TABLE 16.3.3.1
- COMMODITY CLASSIFICATION: CLASS I, II, III OR IV, ENCAPSULATED OR UNENCAPSULATED, NO OPEN TOP CONTAINERS
- STORAGE ARRANGEMENT: PALLETIZED/SOLID-PILE/SINGLE & DOUBLE ROW RACKS WITH NO SOLID SHELVING
- CONSTRUCTION TYPE: ALL TYPES
- MAXIMUM STORAGE HEIGHT: 35 FEET
- MAXIMUM CEILING/ROOF HEIGHT: 40 FEET
- MINIMUM CLEARANCE FROM SPRINKLER DEFLECTOR TO TOP OF STORAGE: 36 INCHES
- SPRINKLER TYPE: ESFR (EARLY SUPPRESSION FAST-RESPONSE)
- SPRINKLER K-FACTOR: 16.8
- SPRINKLER TEMPERATURE RATING: 205°F
- SPRINKLER ORIENTATION: PENDENT
- MAXIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 14 INCHES
- MINIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 6 INCHES
- MAXIMUM SPRINKLER SPACING/AREA: 10 FEET/100 S.F.
- MINIMUM SPRINKLER SPACING: 8 FEET/64 S.F.
- TYPE OF SYSTEM: WET
- NUMBER OF DESIGN SPRINKLERS: 12
- MINIMUM SPRINKLER OPERATING PRESSURE: 52 PSI
- INSIDE HOSE STREAM ALLOWANCE: 0 GPM
- OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM
- TOTAL HOSE STREAM ALLOWANCE: 250 GPM
- IN-RACK SPRINKLERS: NO

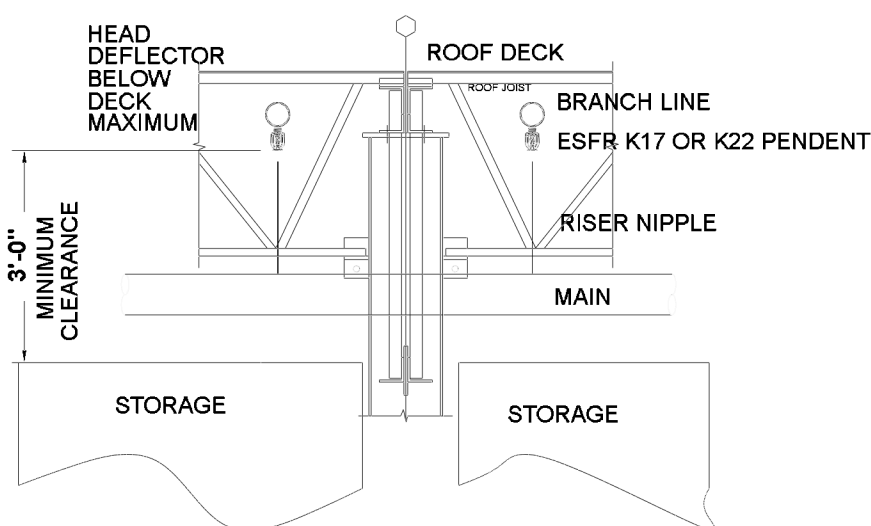
### SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

- FROM NFPA 13, 2016 EDITION TABLE 16.3.3.1
- COMMODITY CLASSIFICATION: CLASS I, II, III OR IV, ENCAPSULATED OR UNENCAPSULATED, NO OPEN TOP CONTAINERS
- STORAGE ARRANGEMENT: PALLETIZED/SOLID-PILE/SINGLE & DOUBLE ROW RACKS WITH NO SOLID SHELVING
- CONSTRUCTION TYPE: ALL TYPES
- MAXIMUM STORAGE HEIGHT: 40 FEET
- MAXIMUM CEILING/ROOF HEIGHT: 45 FEET
- MINIMUM CLEARANCE FROM SPRINKLER DEFLECTOR TO TOP OF STORAGE: 36 INCHES
- SPRINKLER TYPE: ESFR (EARLY SUPPRESSION FAST-RESPONSE)
- SPRINKLER K-FACTOR: 22.4
- SPRINKLER TEMPERATURE RATING: 205°F
- SPRINKLER ORIENTATION: PENDENT
- MAXIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 18 INCHES
- MINIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 6 INCHES
- MAXIMUM SPRINKLER SPACING/AREA: 10 FEET/100 S.F.
- MINIMUM SPRINKLER SPACING: 8 FEET/64 S.F.
- TYPE OF SYSTEM: WET
- NUMBER OF DESIGN SPRINKLERS: 12
- MINIMUM SPRINKLER OPERATING PRESSURE: 40 PSI
- INSIDE HOSE STREAM ALLOWANCE: 0 GPM
- OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM
- TOTAL HOSE STREAM ALLOWANCE: 250 GPM
- IN-RACK SPRINKLERS: NO

### SYSTEMS SHALL BE WET ONLY.

### ROOF OR CEILING SLOPES SHALL NOT EXCEED A PITCH OF 2:12.

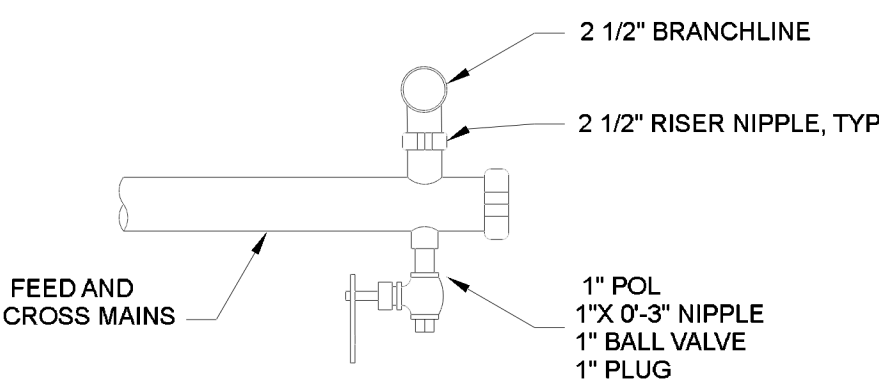
- TOTAL SYSTEM SIZE SHALL NOT EXCEED 40,000 S.F. COMBINED HIGH PILED/RACK STORAGE & LIGHT/ORDINARY HAZARD SYSTEMS MAY COVER UP TO 52,000 S.F.



## STORAGE CLEARANCE

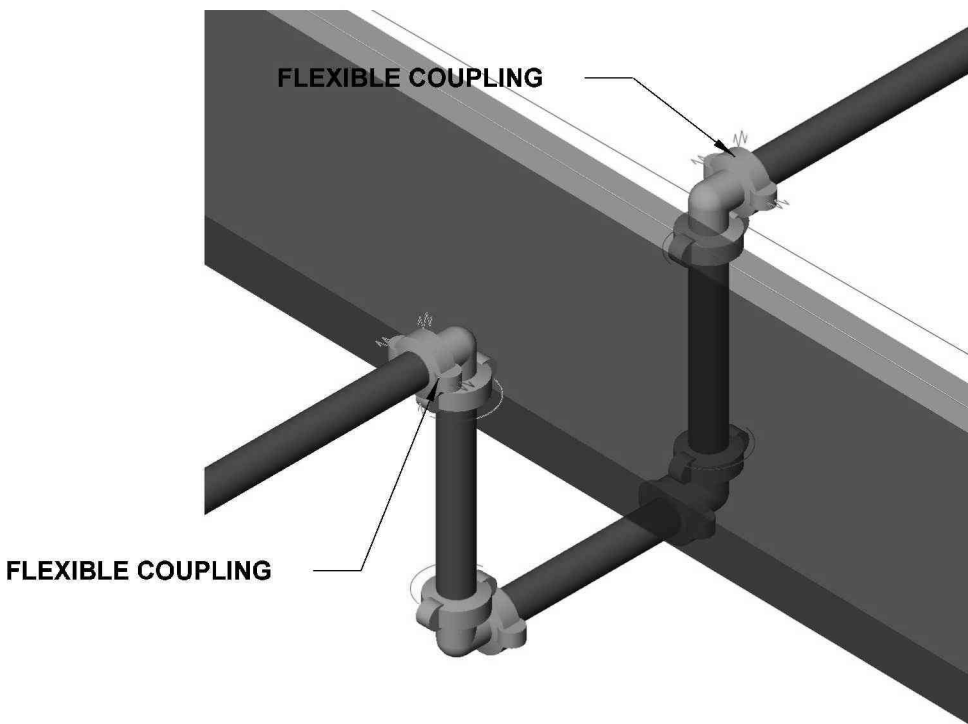
N.T.S.

| DRAWING SYMBOLS |                              |
|-----------------|------------------------------|
| ★ 0" TS ( )     | TO TOP OF STEEL OR ROOF DECK |
| ★ 0" TS ( )     | TO FLOOR                     |
| ○               | HANGER LOCATION              |
| ○               | HYDRAULIC NODE               |
| ○               | FLUSH MOUNT FDC              |
| ○               | STD. PROJECTION FDC          |
| ○               | STORZ FDC                    |
| ○               | ELECTRIC ALARM BELL          |
| ○               | HOSE STATION                 |



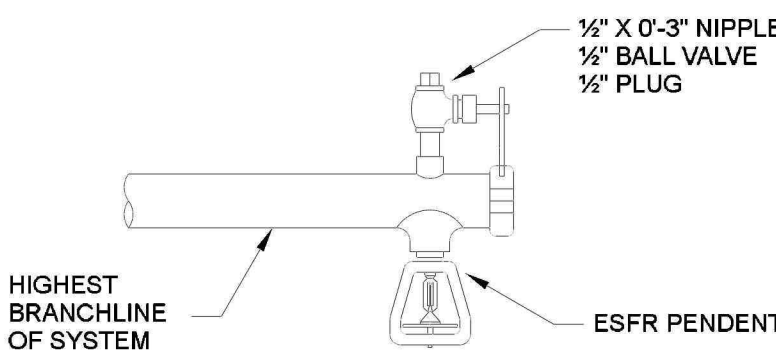
## TYPICAL DRAIN DETAIL

N.T.S.



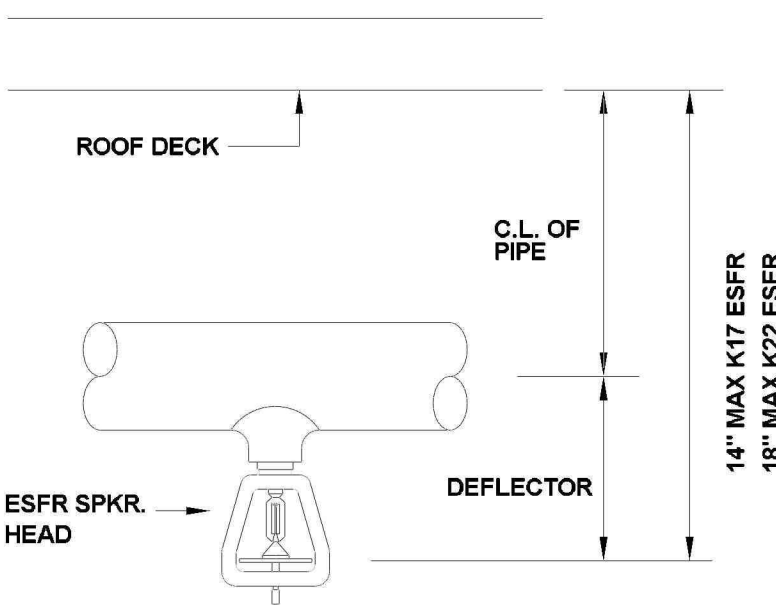
## TYPICAL LINE AT EXPANSION JOINT

N.T.S.



## MANUAL AIR VENT DETAIL

N.T.S.



## ESFR PENDENT DETAIL

N.T.S.

| HANGER INSTALLATION REQUIREMENTS |       |        |        |        |        |        |        |        |
|----------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| MAXIMUM DISTANCE BETWEEN HANGERS |       |        |        |        |        |        |        |        |
| NOMINAL PIPE SIZE                | 3/4"  | 1"     | 1-1/4" | 1-1/2" | 2"     | 2-1/2" | 3"     | 4"     |
| BLAZEMASTER GPVC                 | 6'-6" | 8'-0"  | 8'-6"  | 7'-0"  | 8'-0"  | 9'-0"  | 10'-0" | N/A    |
| THREADED LIGHTWALL               | N/A   | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | N/A    |
| STEEL PIPE (7/10/40)             | N/A   | 12'-0" | 12'-0" | 15'-0" | 15'-0" | 15'-0" | 15'-0" | 15'-0" |

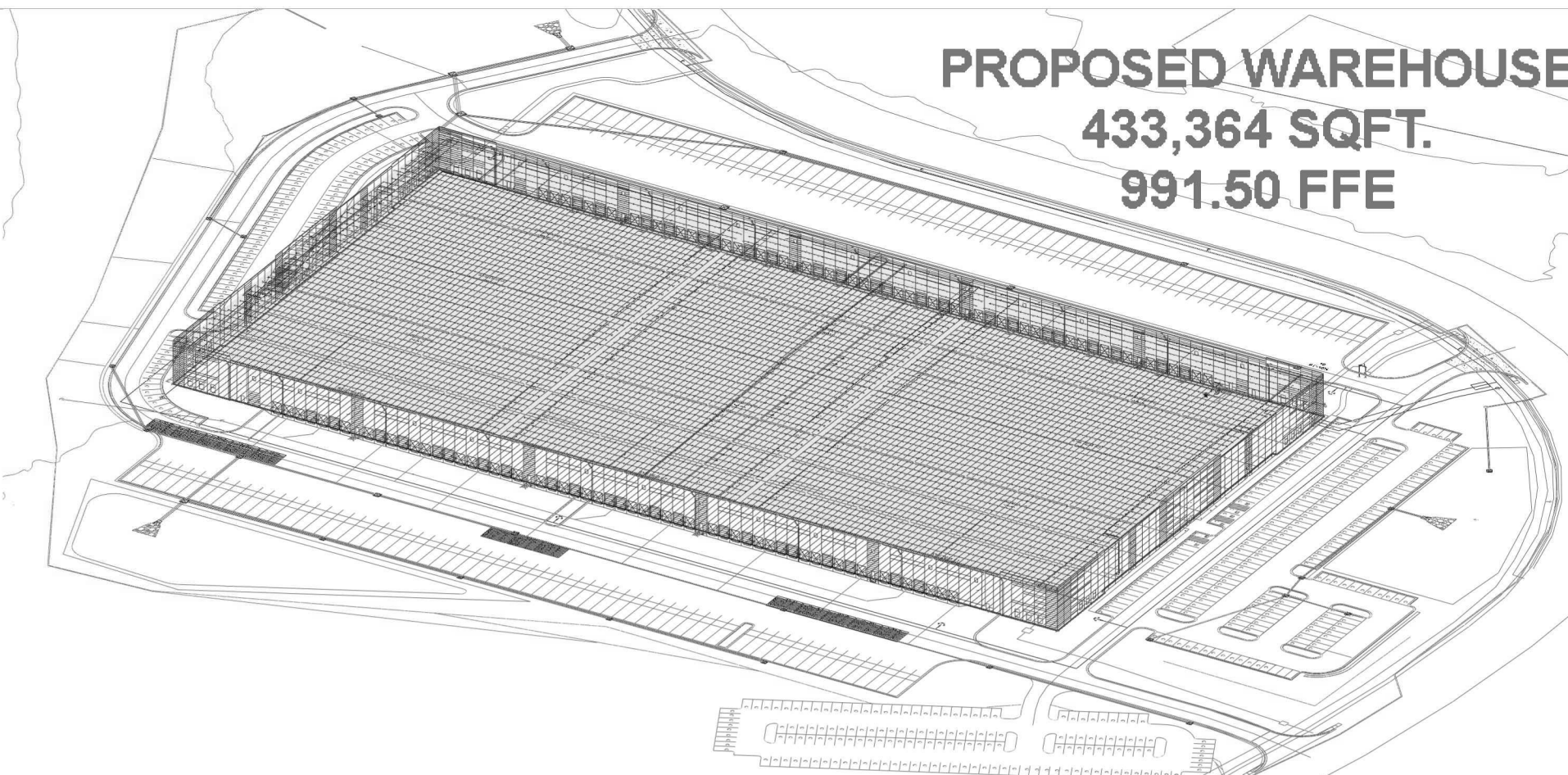
THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARM OVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"

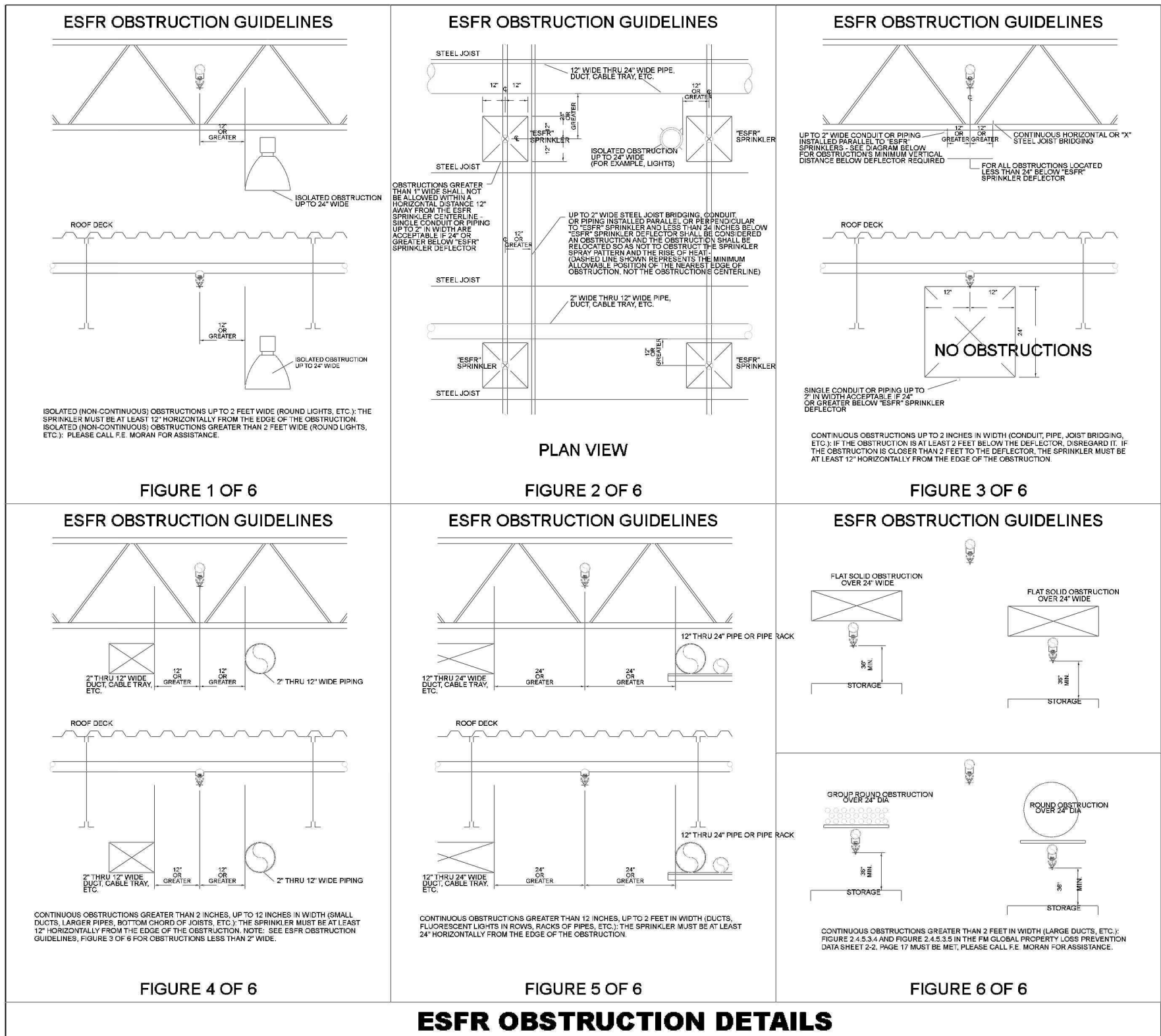
| NOMINAL PIPE SIZE | SCHEDULE 40 |        |                | SCHEDULE 10 |        |                | EDDYFLOW |       |                |
|-------------------|-------------|--------|----------------|-------------|--------|----------------|----------|-------|----------------|
|                   | O.D.        | I.D.   | WALL THICKNESS | O.D.        | I.D.   | WALL THICKNESS | O.D.     | I.D.  | WALL THICKNESS |
| 1                 | 1.315       | 1.049  | .133           | 1.315       | 1.097  | .109           | 1.315    | 1.191 | .062           |
| 1 1/4             | 1.660       | 1.380  | .140           | 1.660       | 1.442  | .109           | 1.660    | 1.536 | .062           |
| 1 1/2             | 1.900       | 1.610  | .145           | 1.900       | 1.682  | .109           | 1.900    | 1.728 | .086           |
| 2                 | 2.375       | 2.067  | .154           | 2.375       | 2.157  | .109           | 2.375    | 2.203 | .086           |
| 2 1/2             | 2.875       | 2.469  | .203           | 2.875       | 2.635  | .120           | 2.875    | 2.703 | .086           |
| 3                 | 3.500       | 3.068  | .216           | 3.500       | 3.260  | .120           | 3.500    | 3.314 | .093           |
| 4                 | 4.500       | 4.026  | .237           | 4.500       | 4.260  | .120           | 4.500    | 4.310 | .095           |
| 5                 | 5.563       | 5.047  | .258           | 5.563       | 5.295  | .134           | ----     | ----  | ----           |
| 6                 | 6.625       | 6.065  | .280           | 6.625       | 6.357  | .134           | ----     | ----  | ----           |
| 8                 | 8.625       | 7.981  | .322           | 8.625       | 8.249  | .188           | ----     | ----  | ----           |
| 10                | 10.750      | 10.020 | .365           | 10.750      | 10.370 | .188           | ----     | ----  | ----           |



JASIEL COLBERT  
NICET LEVEL 1  
AUTO. SPRINKLER SYS. LAYOUT  
VALID THROUGH MARCH 03, 2025



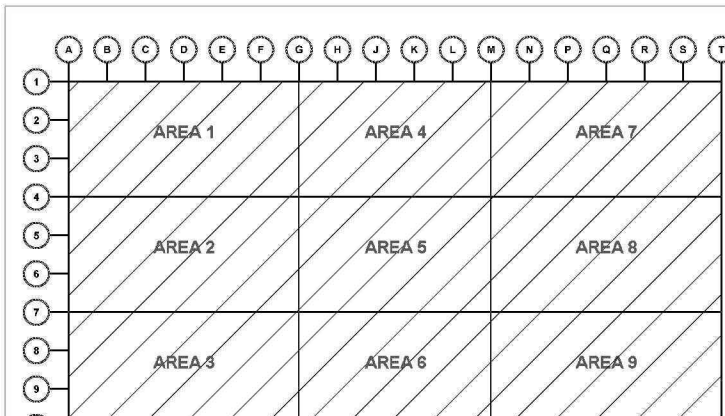
**PROPOSED WAREHOUSE**  
**433,364 SQFT.**  
**991.50 FFE**



## ESFR OBSTRUCTION DETAILS

## DRAWING INDEX

- FP0.0- SYSTEM NOTES
- FP1.0 - HYDRAULIC SITE PLAN
- FP2.0 - OVERHEAD PIPING PLAN
- FP2.1.1 - AREA 1: SYSTEMS 1-2
- FP2.1.2 - AREA 1: SYSTEMS 1-2 (CONT.)
- FP2.2.1 - AREA 2: SYSTEMS 2-3
- FP2.2.2 - AREA 2: SYSTEMS 2-3 (CONT.)
- FP2.3.1 - AREA 3: SYSTEMS 3-4
- FP2.3.2 - AREA 3: SYSTEMS 3-4 (CONT.)
- FP2.4 - AREA 4: SYSTEM 05
- FP2.5 - AREA 5: SYSTEM 06
- FP2.6 - AREA 6: SYSTEM 07
- FP2.7.1 - AREA 7: SYSTEMS 08-09
- FP2.7.2 - AREA 7: SYSTEMS 08-09 (CONT.)
- FP2.8.1 - AREA 8: SYSTEMS 09-10
- FP2.8.2 - AREA 8: SYSTEMS 09-10 (CONT.)
- FP2.9.1 - AREA 9: SYSTEMS 10-11
- FP2.9.2 - AREA 9: SYSTEMS 10-11 (CONT.)
- FP3.0- FIRE PUMP & RISER DETAIL



## KEY PLAN



**CURRAN**  
**ARCHITECTURE**

5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216

O :: 317 . 288 . 0681

F :: 317 . 288 . 0753



**SCANNELL**  
PROPERTIES

## CERTIFICATION

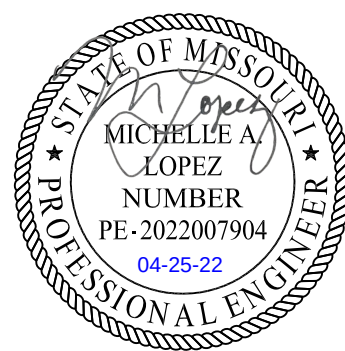
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## PROJECT INFORMATION

### LEE'S SUMMIT LOGISTICS

#### BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



## ISSUE DATES

PERMIT SET 02.18.22

210300

## FP0.0

### SYSTEM NOTES





### WATER FLOW TEST DATA

|      |            |
|------|------------|
| DATE | 03.31.2022 |
|------|------------|

|                 |                     |
|-----------------|---------------------|
| STATIC PRESSURE | 97 PSI (1002 ELEV.) |
|-----------------|---------------------|

|                   |                   |
|-------------------|-------------------|
| RESIDUAL PRESSURE | 88 PSI @ 1900 GPM |
|-------------------|-------------------|

|             |                              |
|-------------|------------------------------|
| SOURCE INFO | LEE'S SUMMIT WATER UTILITIES |
|-------------|------------------------------|



5719 LAWTON LOOP E. DR. #212

INDIANAPOLIS, IN 46216

D :: 317.288.0681

$$\therefore 317.288.0753$$


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## PROJECT INFORMATION

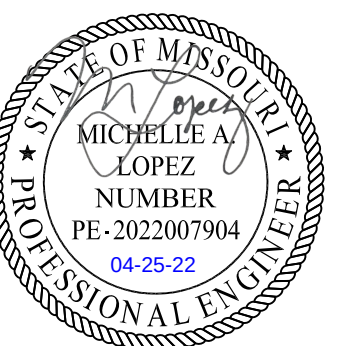
LEE'S SUMMIT LOGISTICS

BUILDING A LOT 1

NW CORNER OF

NE TUDOR RD &amp; MAIN ST

LEE'S SUMMIT, MO 64086



ISSUE DATES

ERMIT SET

2.18.22

Figure 1 shows a 3x3 grid of cells, numbered 1 through 27. The grid is divided into 9 areas, each containing a 3x3 sub-grid of cells. The areas are labeled AREA 1 through AREA 9. The cells are numbered 1 through 27. The grid is divided into 9 areas, each containing a 3x3 sub-grid of cells. The areas are labeled AREA 1 through AREA 9. The cells are numbered 1 through 27.



10300

## FP1.0

HYDRAULIC SITE  
PLAN





**CURRAN**  
ARCHITECTURE

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INDIANAPOLIS, IN 46216  
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F :: 317.288.0753



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

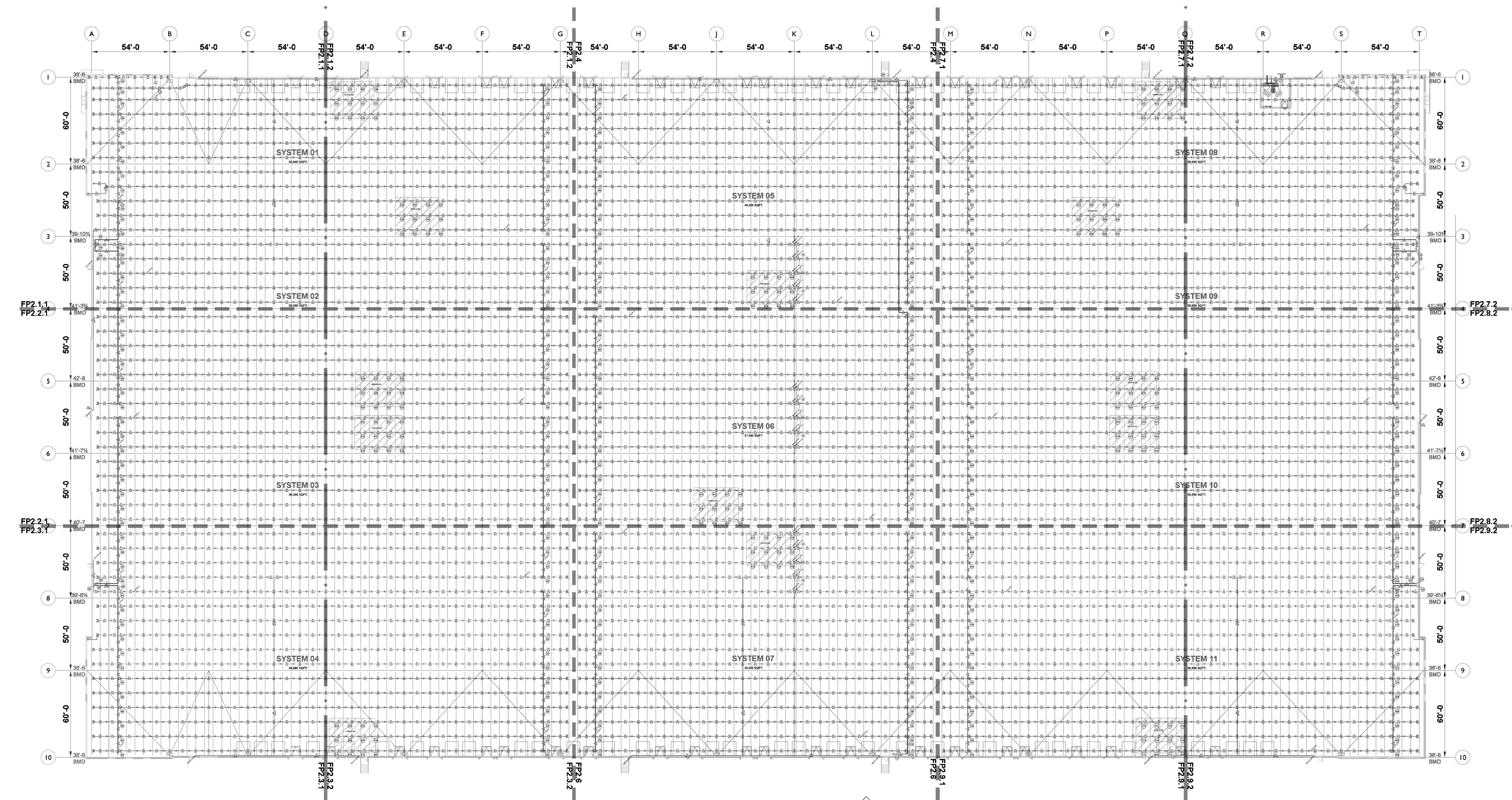
NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



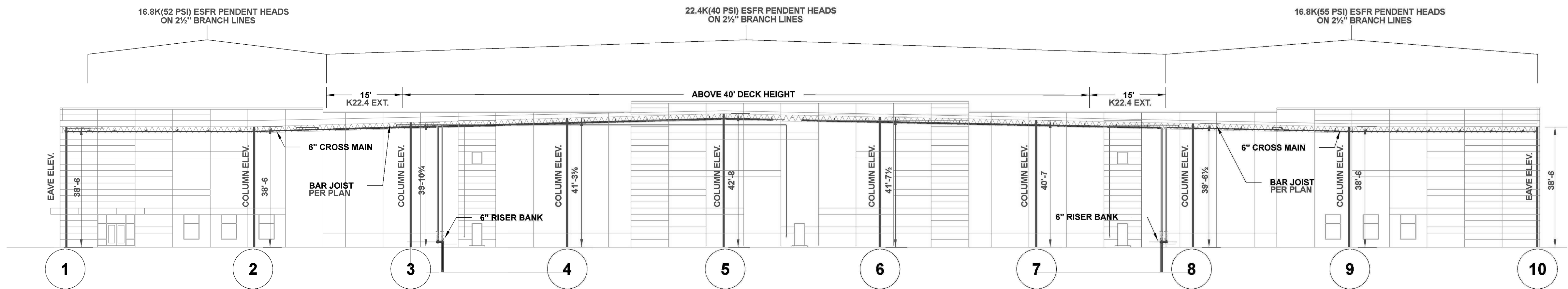
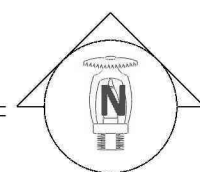
ISSUE DATES  
PERMIT SET 02.18.22

210300

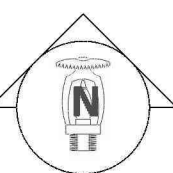
**FP2.0**  
OVERHEAD PIPING  
LAYOUT



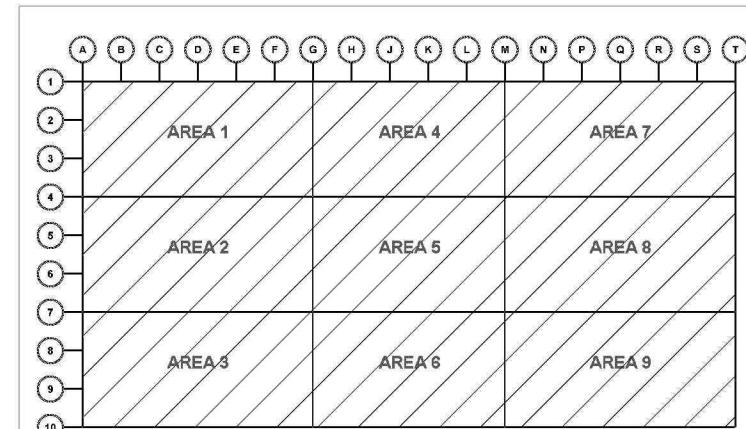
OVERHEAD PIPING  
SCALE: 1" = 30'-0"



EAST WALL VIEW (SECTION A-A)  
SCALE: 1/16" = 1'-0"



| Sprinkler Legend |          |              |       |       |          |         |         |       |                             |
|------------------|----------|--------------|-------|-------|----------|---------|---------|-------|-----------------------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | ESFR    | TYPE    | SIZE  | RESPONSE FINISH TEMPERATURE |
| ▲                | 2054     | VICTAULIC    | V3702 | ESFR  | 16.8     | PENDENT | % QUICK | BRASS | 200°F                       |
| ⊗                | 4        | VICTAULIC    | V3406 | V24   | 8        | PENDENT | % QUICK | BRASS | 200°F                       |
| ◆                | 2764     | VICTAULIC    | V4802 | ESFR  | 22.4     | PENDENT | 1 FAST  | BRASS | 212°F                       |
| TOTAL = 4812     |          |              |       |       |          |         |         |       |                             |



KEY PLAN





**CURRAN**  
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317 . 288 . 0681  
F :: 317 . 288 . 0753



**SCANNELL**  
PROPERTIES

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PART, WITHOUT THE WRITTEN CONSENT OF  
CURRAN ARCHITECTURE.

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I  
NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



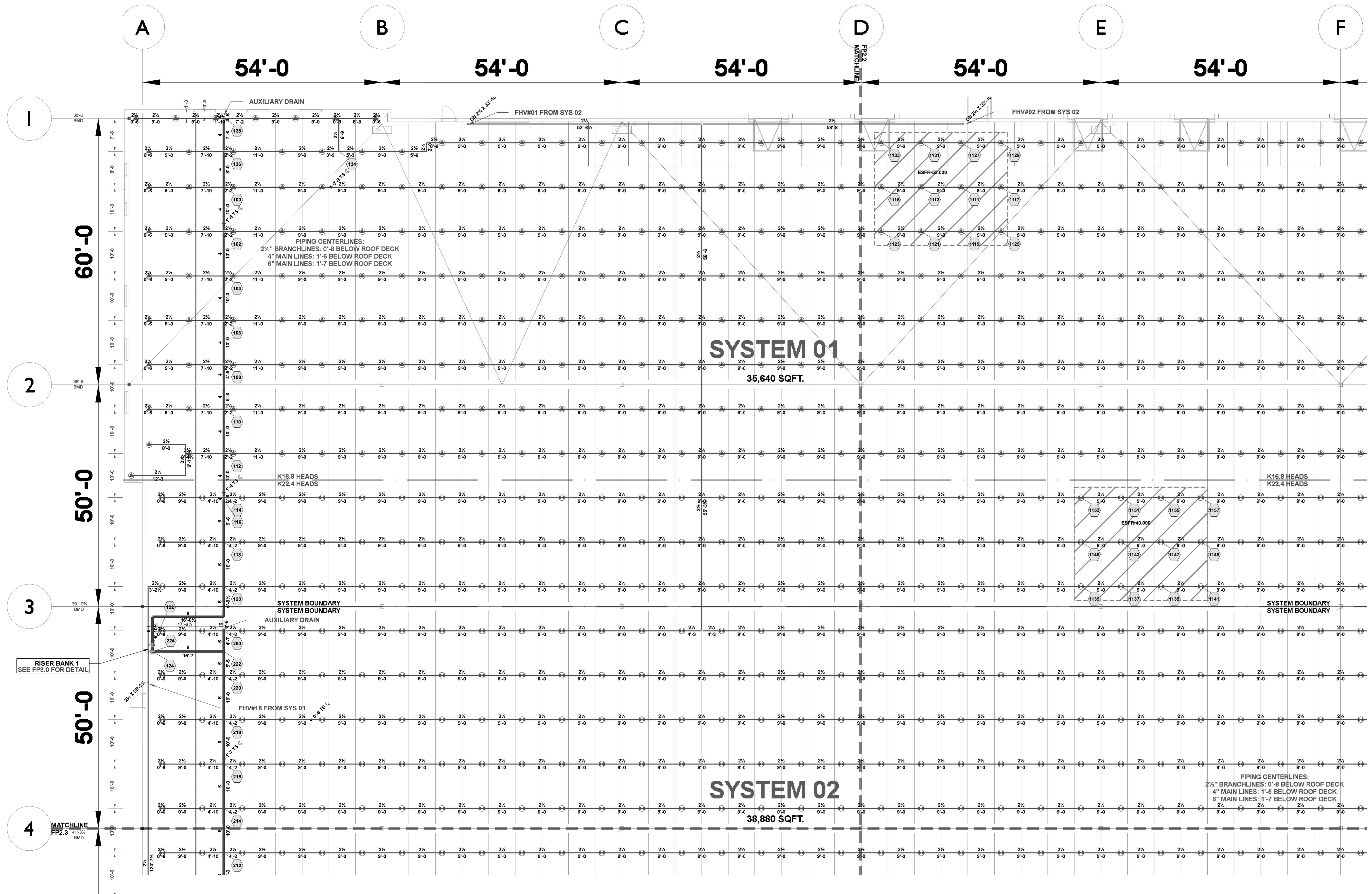
ISSUE DATES

PERMIT SET 02.18.22

210300

**FP2.1.1**

AREA 1: SYSTEMS  
01-02

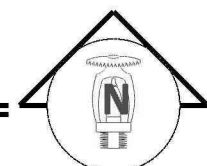


| Hydraulic Information    |                 |
|--------------------------|-----------------|
| Remote Area 01 (K16.8)   |                 |
| OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 52.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 16.8            |
| TOTAL WATER REQUIRED     | 1711.62         |
| TOTAL PRESSURE REQUIRED  | 66.872          |
| BASE OF RISER (GPM)      | 1711.62         |
| BASE OF RISER (PSI)      | 66.872          |
| SAFETY MARGIN (PSI)      | +22.709 (25.4%) |

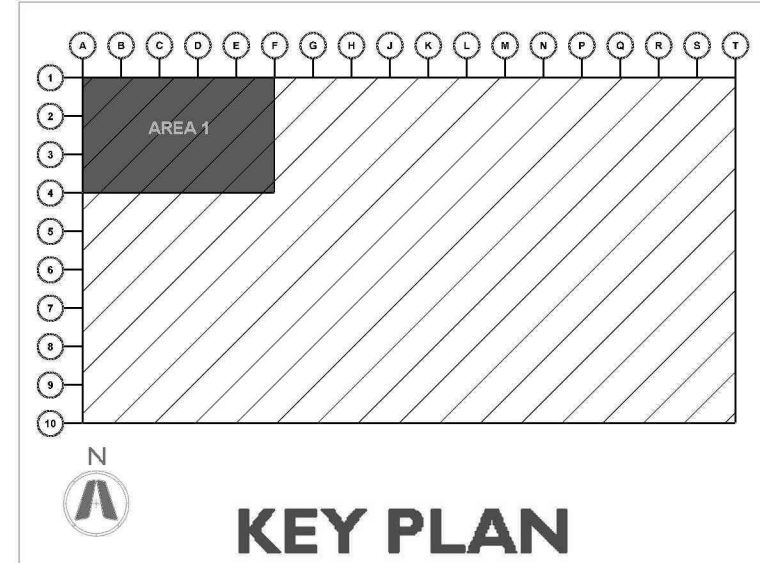
| Hydraulic Information    |                 |
|--------------------------|-----------------|
| Remote Area 01           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1956.96         |
| TOTAL PRESSURE REQUIRED  | 70.272          |
| BASE OF RISER (GPM)      | 1956.96         |
| BASE OF RISER (PSI)      | 70.272          |
| SAFETY MARGIN (PSI)      | +17.222 (19.7%) |

AREA 1: SYSTEMS 01-02

SCALE: 3/32" = 1'-0"



| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
|                  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 1/2" | QUICK    | BRASS  | 200°F       |
|                  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 1/2" | QUICK    | BRASS  | 200°F       |
|                  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1"   | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







**CURRAN**  
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INDIANAPOLIS, IN 46216  
O :: 317.288.0681  
F :: 317.288.0753



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

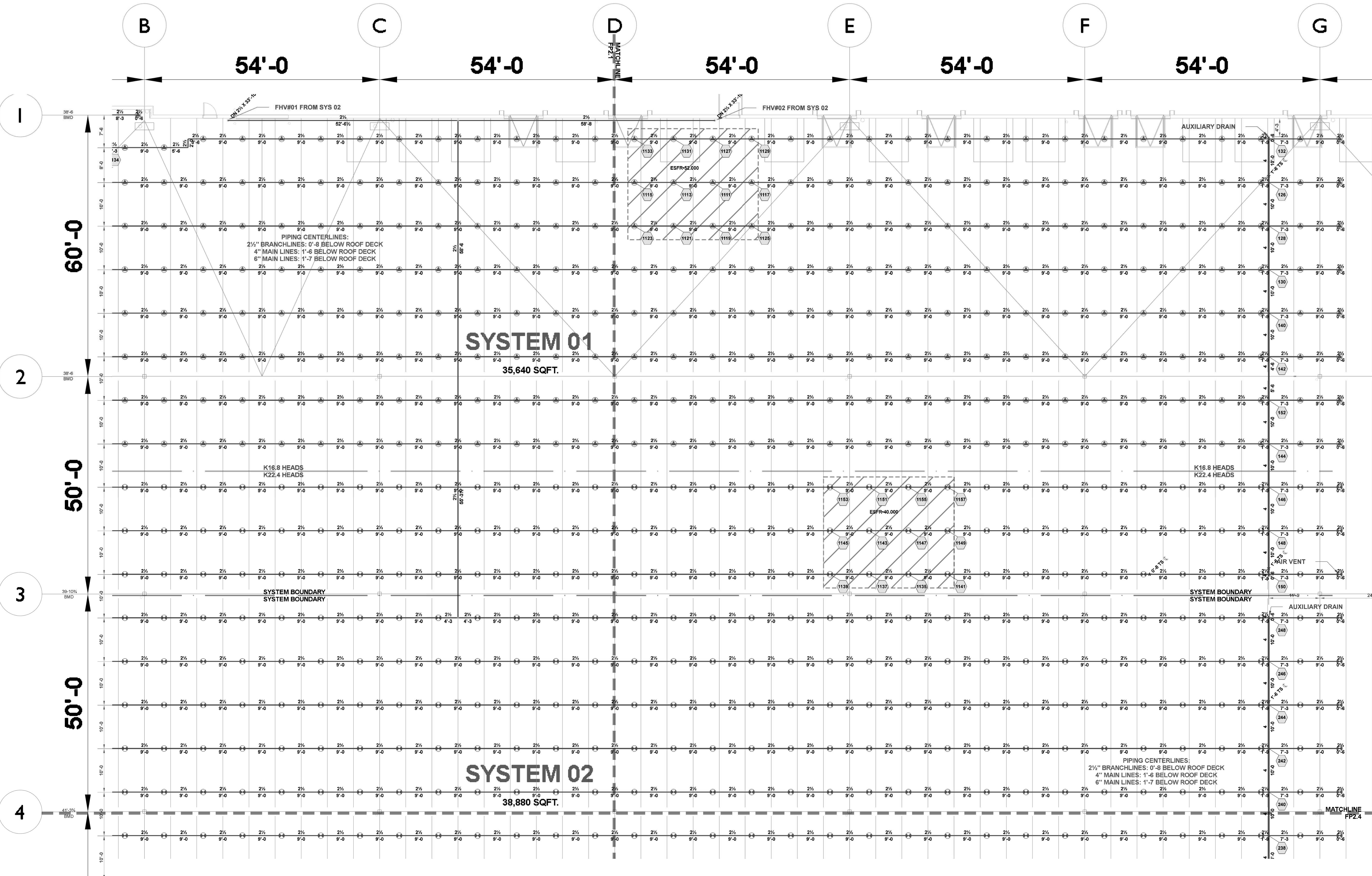
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ISSUE DATES

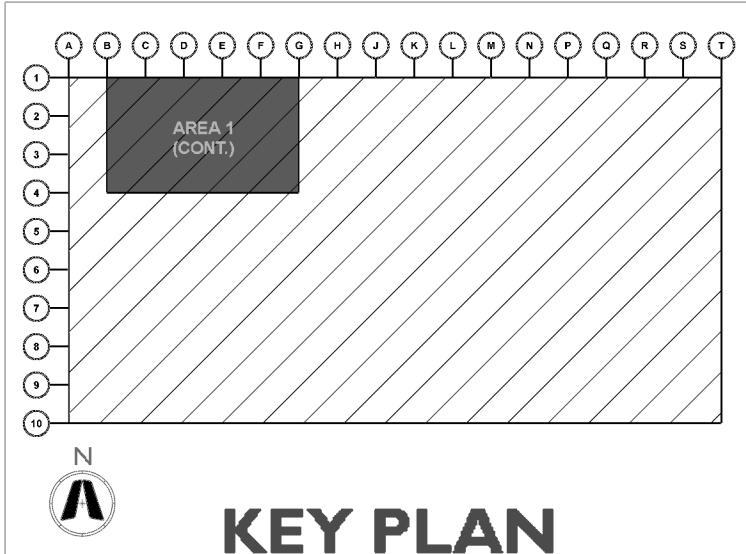
PERMIT SET 02.18.22

210300  
**FP2.1.2**  
AREA 1 (CONT.):  
SYSTEMS 01-02



| Hydraulic Information    |                 | Hydraulic Information    |                 |
|--------------------------|-----------------|--------------------------|-----------------|
| Remote Area 01 (K16.8)   |                 | Remote Area 01           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            | OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 52.000 (ESFR)   | MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          | TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              | TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 16.8            | K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1711.62         | TOTAL WATER REQUIRED     | 1956.96         |
| TOTAL PRESSURE REQUIRED  | 66.872          | TOTAL PRESSURE REQUIRED  | 70.272          |
| BASE OF RISER (GPM)      | 1711.62         | BASE OF RISER (GPM)      | 1956.96         |
| BASE OF RISER (PSI)      | 66.872          | BASE OF RISER (PSI)      | 70.272          |
| SAFETY MARGIN (PSI)      | +22.709 (25.4%) | SAFETY MARGIN (PSI)      | +17.222 (19.7%) |

| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
|                  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 1/2" | QUICK    | BRASS  | 200°F       |
|                  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 1/2" | QUICK    | BRASS  | 200°F       |
|                  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1"   | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







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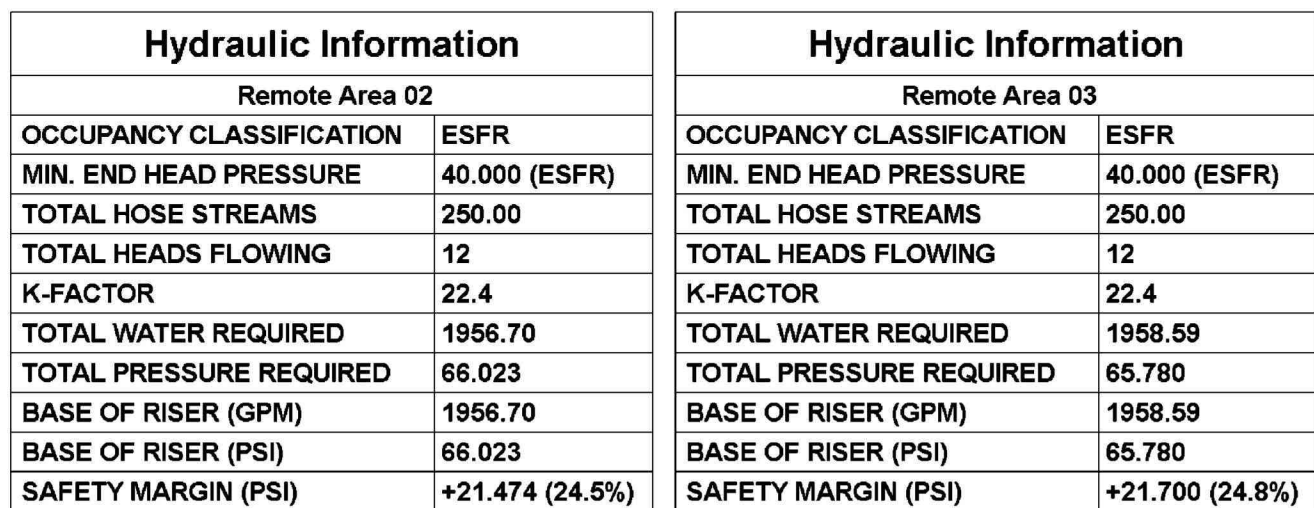


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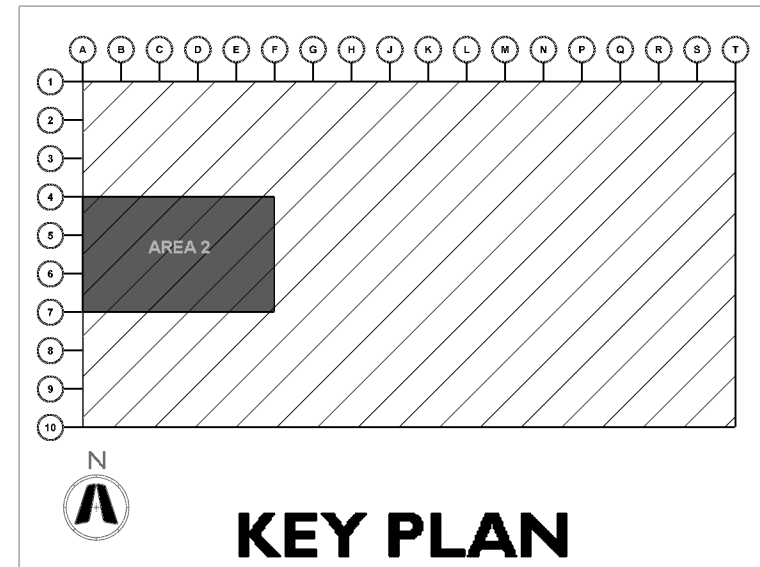
## PROJECT INFORMATION

### FP2.2.1

AREA 2: SYSTEM  
02-03



| Sprinkler Legend                                                                      |              |              |       |       |          |         |      |          |        |             |      |
|---------------------------------------------------------------------------------------|--------------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|------|
| SYMBOL                                                                                | QUANTITY     | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE | NOTE |
|  | 2054         | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
|  | 4            | VICTAULIC    | V3406 | V34   | 8        | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
|  | 2754         | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1    | FAST     | BRASS  | 212°F       |      |
|                                                                                       | TOTAL = 4812 |              |       |       |          |         |      |          |        |             |      |







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5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317 . 288 . 0681  
F :: 317 . 288 . 0753



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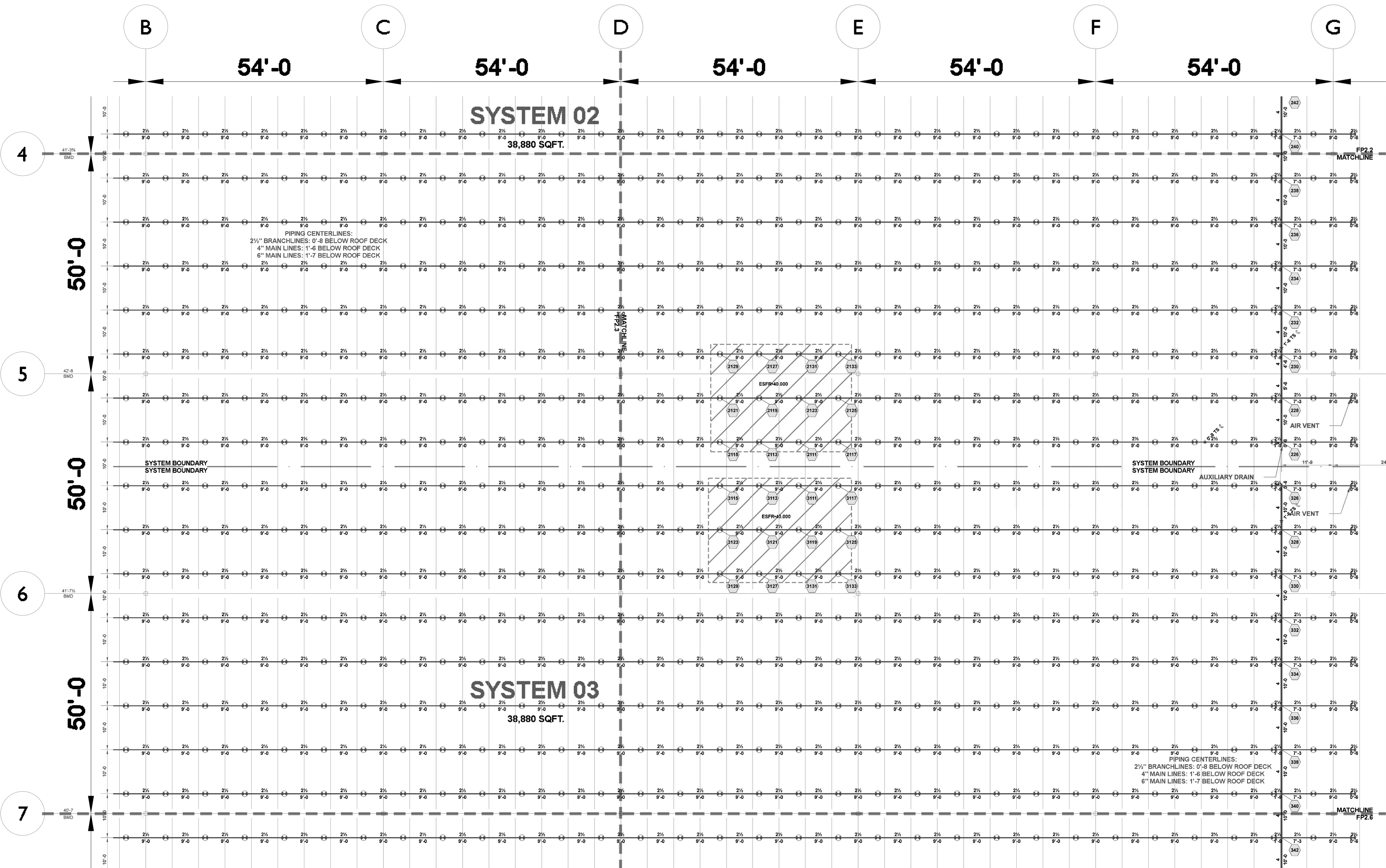
LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

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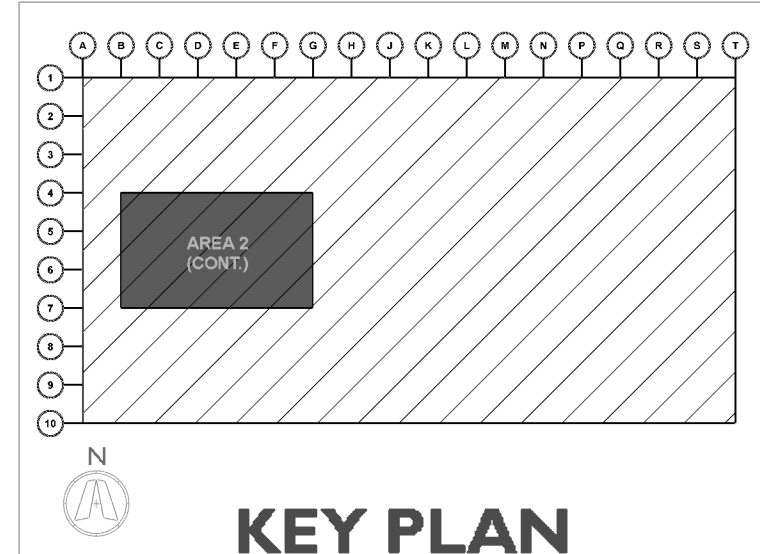
210300  
**FP2.2.2**  
AREA 2(CONT):  
SYSTEMS 02-03



| Hydraulic Information    |                 | Hydraulic Information    |                 |
|--------------------------|-----------------|--------------------------|-----------------|
| Remote Area 02           |                 | Remote Area 03           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            | OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 40.000 (ESFR)   | MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          | TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              | TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 22.4            | K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1956.70         | TOTAL WATER REQUIRED     | 1958.59         |
| TOTAL PRESSURE REQUIRED  | 66.023          | TOTAL PRESSURE REQUIRED  | 65.780          |
| BASE OF RISER (GPM)      | 1956.70         | BASE OF RISER (GPM)      | 1958.59         |
| BASE OF RISER (PSI)      | 66.023          | BASE OF RISER (PSI)      | 65.780          |
| SAFETY MARGIN (PSI)      | +21.474 (24.5%) | SAFETY MARGIN (PSI)      | +21.700 (24.8%) |

AREA 2(CONT): SYSTEMS 02-03  
SCALE: 3/32" = 1'-0"

| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
|                  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1"   | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







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5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317 . 288 . 0681  
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PROJECT INFORMATION

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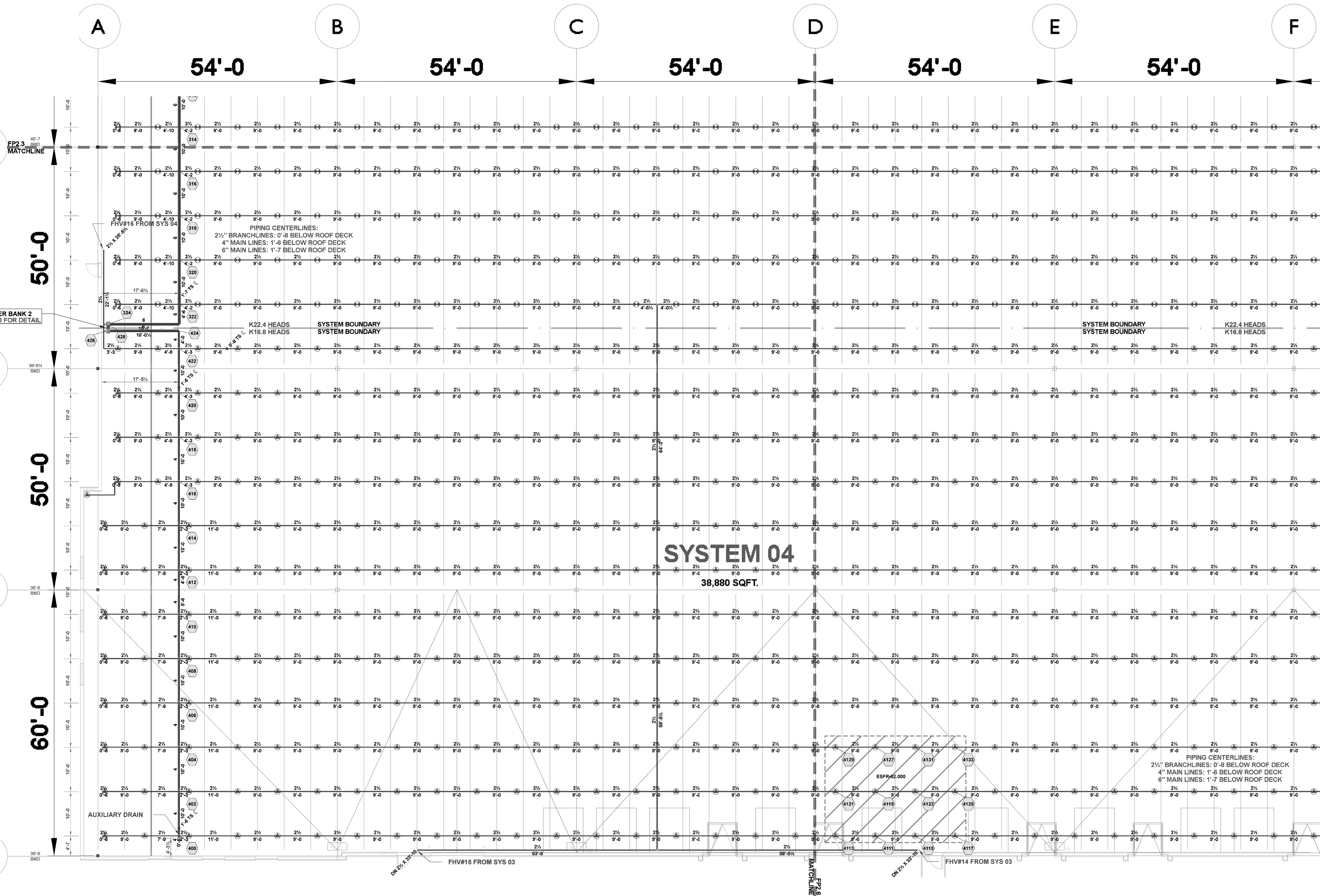
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210300  
**FP2.3.1**  
AREA 3: SYSTEMS  
03-04







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O :: 317 . 288 . 0681  
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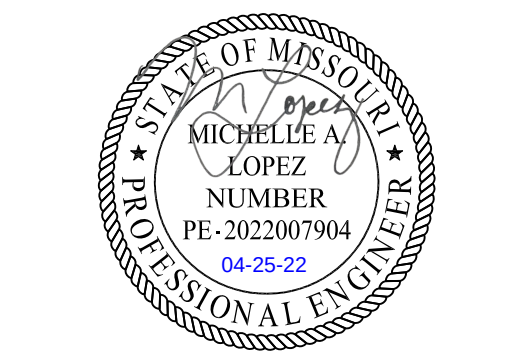
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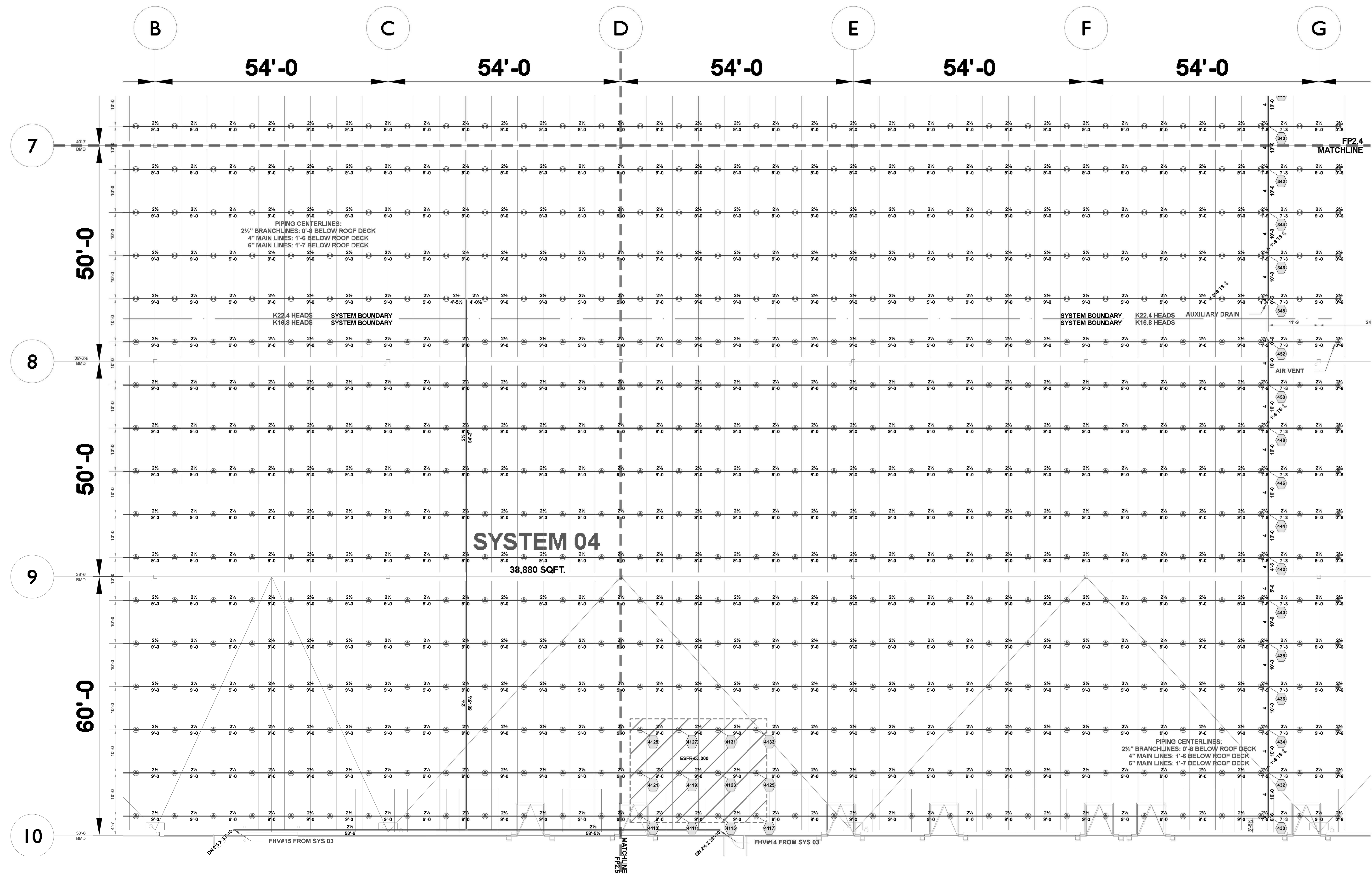
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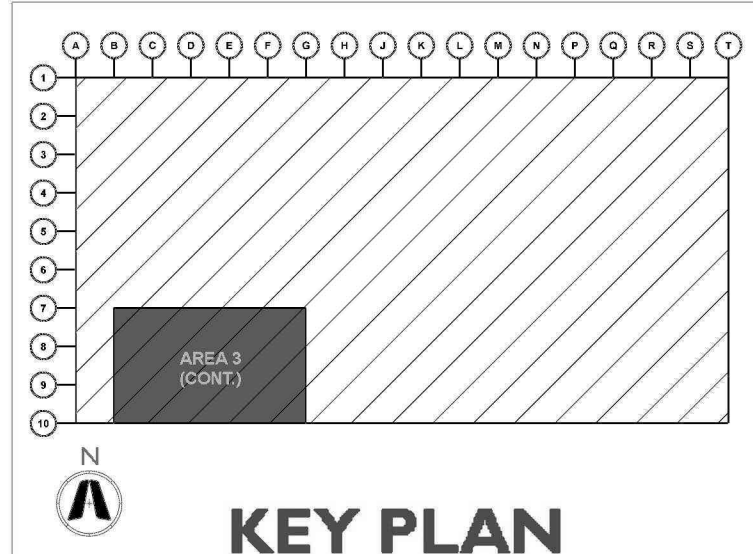
210300  
**FP2.3.2**  
AREA 3(CONT.):  
SYSTEMS 03-04



| Hydraulic Information    |                 |
|--------------------------|-----------------|
| Remote Area 04           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 52.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 16.8            |
| TOTAL WATER REQUIRED     | 1708.55         |
| TOTAL PRESSURE REQUIRED  | 76.054          |
| BASE OF RISER (GPM)      | 1708.55         |
| BASE OF RISER (PSI)      | 76.054          |
| SAFETY MARGIN (PSI)      | +13.552 (15.1%) |

AREA 3(CONT.): SYSTEMS 03-04  
SCALE: 3/32" = 1'-0"

| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
|                  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 1/2" | QUICK    | BRASS  | 200°F       |
|                  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 1/2" | QUICK    | BRASS  | 200°F       |
|                  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1"   | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







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5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317.288.0681  
F :: 317.288.0753



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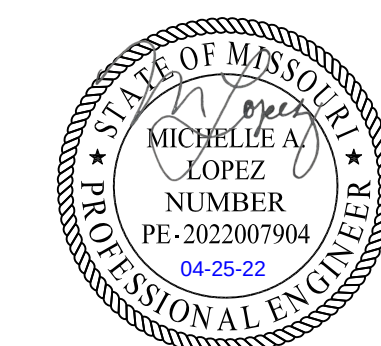
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PROJECT INFORMATION

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LEE'S SUMMIT, MO 64086

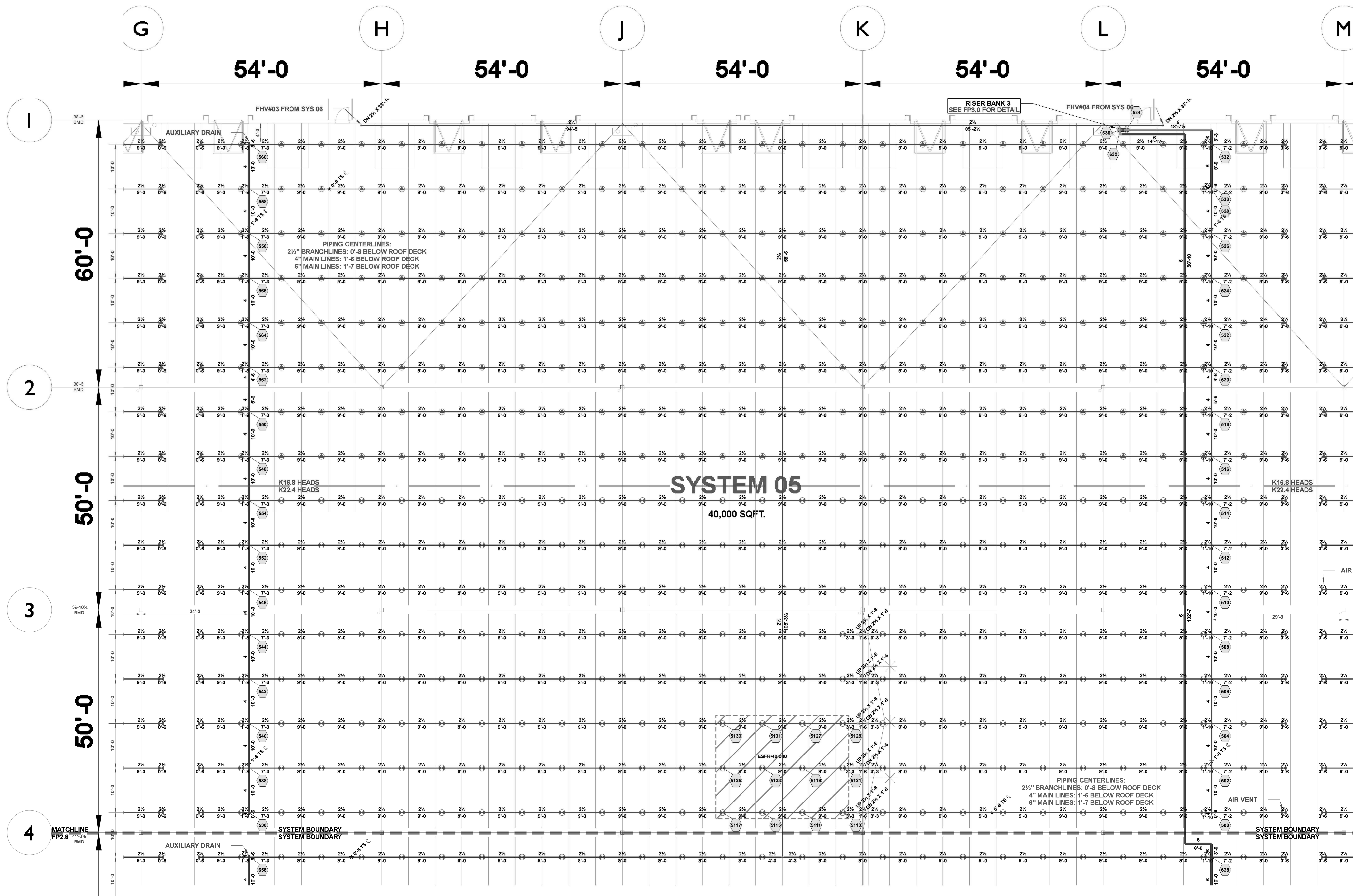


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**FP2.4**

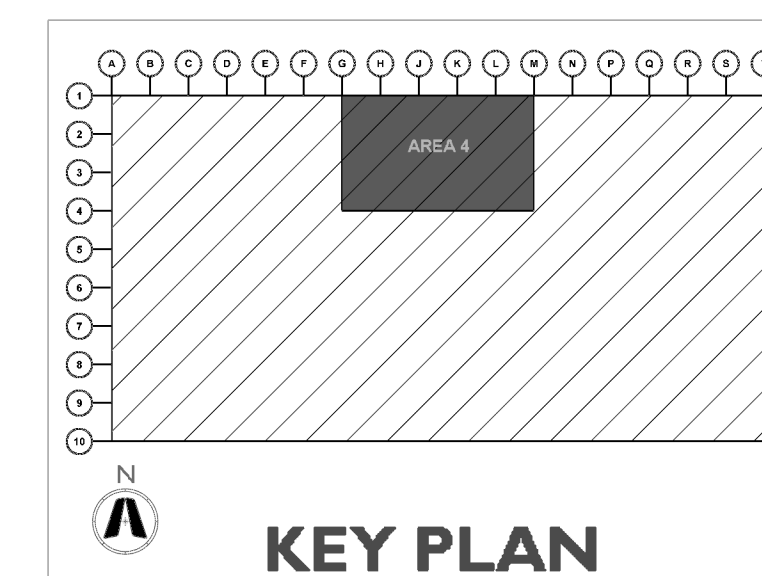
AREA 4: SYSTEM 05



| Hydraulic Information    |               |
|--------------------------|---------------|
| Remote Area 05           |               |
| OCCUPANCY CLASSIFICATION | ESFR          |
| MIN. END HEAD PRESSURE   | 40,000 (ESFR) |
| TOTAL HOSE STREAMS       | 250.00        |
| TOTAL HEADS FLOWING      | 12            |
| K-FACTOR                 | 22.4          |
| TOTAL WATER REQUIRED     | 1960.71       |
| TOTAL PRESSURE REQUIRED  | 80.569        |
| BASE OF RISER (GPM)      | 1960.71       |
| BASE OF RISER (PSI)      | 80.569        |
| SAFETY MARGIN (PSI)      | +6.892 (7.9%) |

AREA 4: SYSTEM 05  
SCALE: 3/32" = 1'-0"

| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
| ▲                | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |
| ⊗                | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |
| ⊗                | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1    | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







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INDIANAPOLIS, IN 46216  
O :: 317.288.0681  
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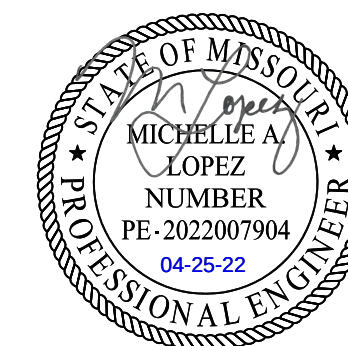
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
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LEE'S SUMMIT, MO 64086



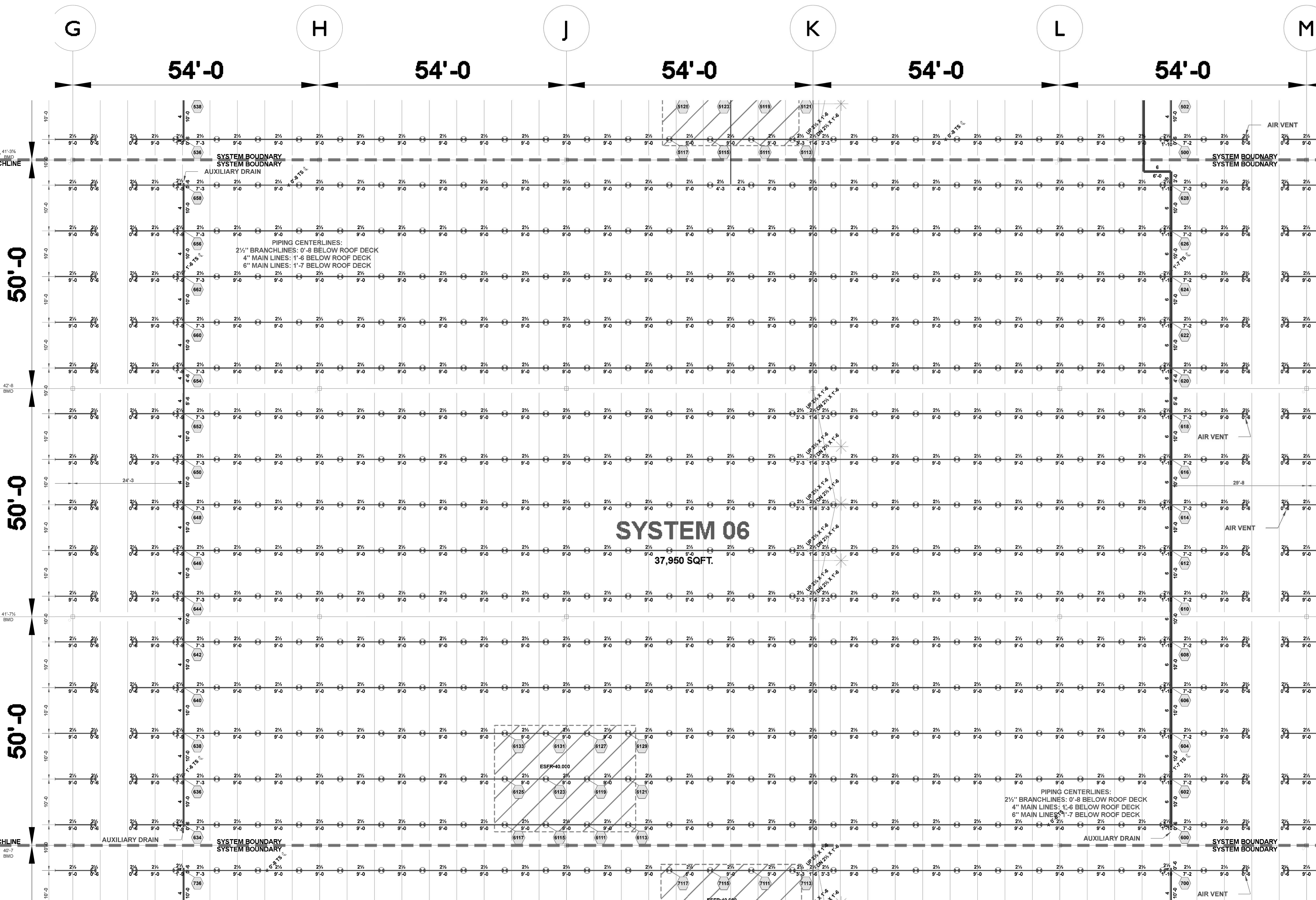
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**FP2.5**

AREA 5: SYSTEM 06



#### Hydraulic Information

Remote Area 06

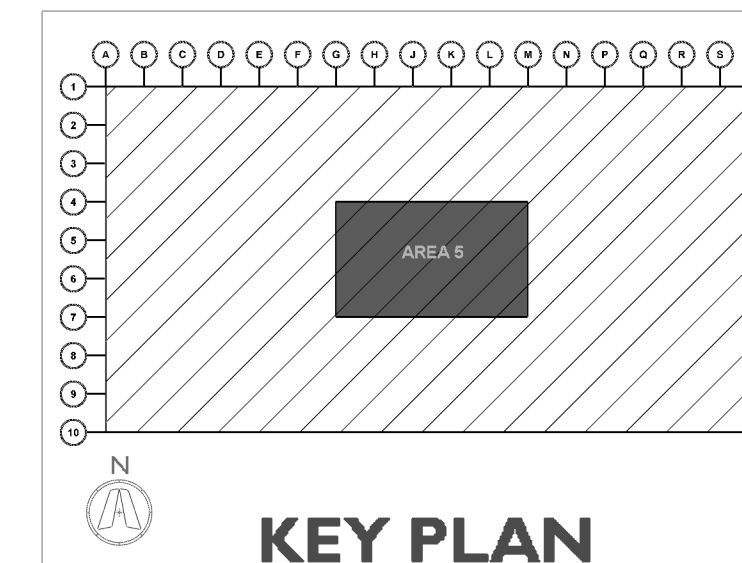
|                          |                 |
|--------------------------|-----------------|
| OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1956.47         |
| TOTAL PRESSURE REQUIRED  | 72.455          |
| BASE OF RISER (GPM)      | 1956.47         |
| BASE OF RISER (PSI)      | 72.455          |
| SAFETY MARGIN (PSI)      | +15.043 (17.2%) |

#### AREA 5: SYSTEM 06

SCALE: 3/32" = 1'-0"

#### Sprinkler Legend

| SYMBOL | QUANTITY     | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE | NOTE |
|--------|--------------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|------|
| ▲      | 2054         | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
| ⊗      | 4            | VICTAULIC    | V3406 | V34   | 8        | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
| ⊗      | 2754         | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1    | FAST     | BRASS  | 212°F       |      |
|        | TOTAL = 4812 |              |       |       |          |         |      |          |        |             |      |

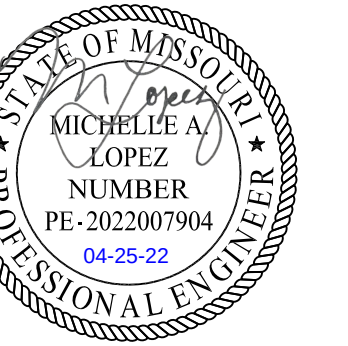






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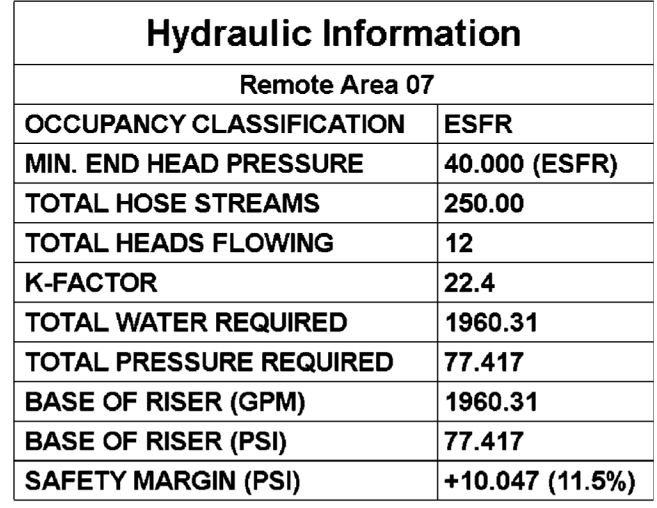
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210300

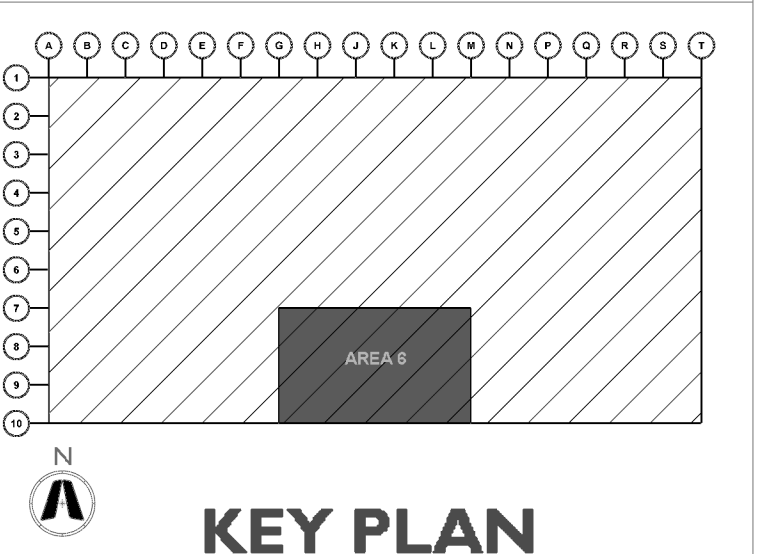
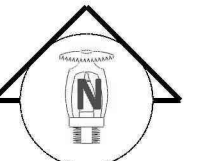
## FP2.6

## AREA 6: SYSTEM 07



SCALE: 3/32" = 1'-0"

| Sprinkler Legend                                                                      |              |              |       |       |          |         |      |          |        |             |      |
|---------------------------------------------------------------------------------------|--------------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|------|
| SYMBOL                                                                                | QUANTITY     | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE | NOTE |
|  | 2054         | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
|  | 4            | VICTAULIC    | V3406 | V34   | 8        | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
|  | 2754         | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1    | FAST     | BRASS  | 212°F       |      |
|                                                                                       | TOTAL = 4812 |              |       |       |          |         |      |          |        |             |      |







**CURRAN**  
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317.288.0681  
F :: 317.288.0753



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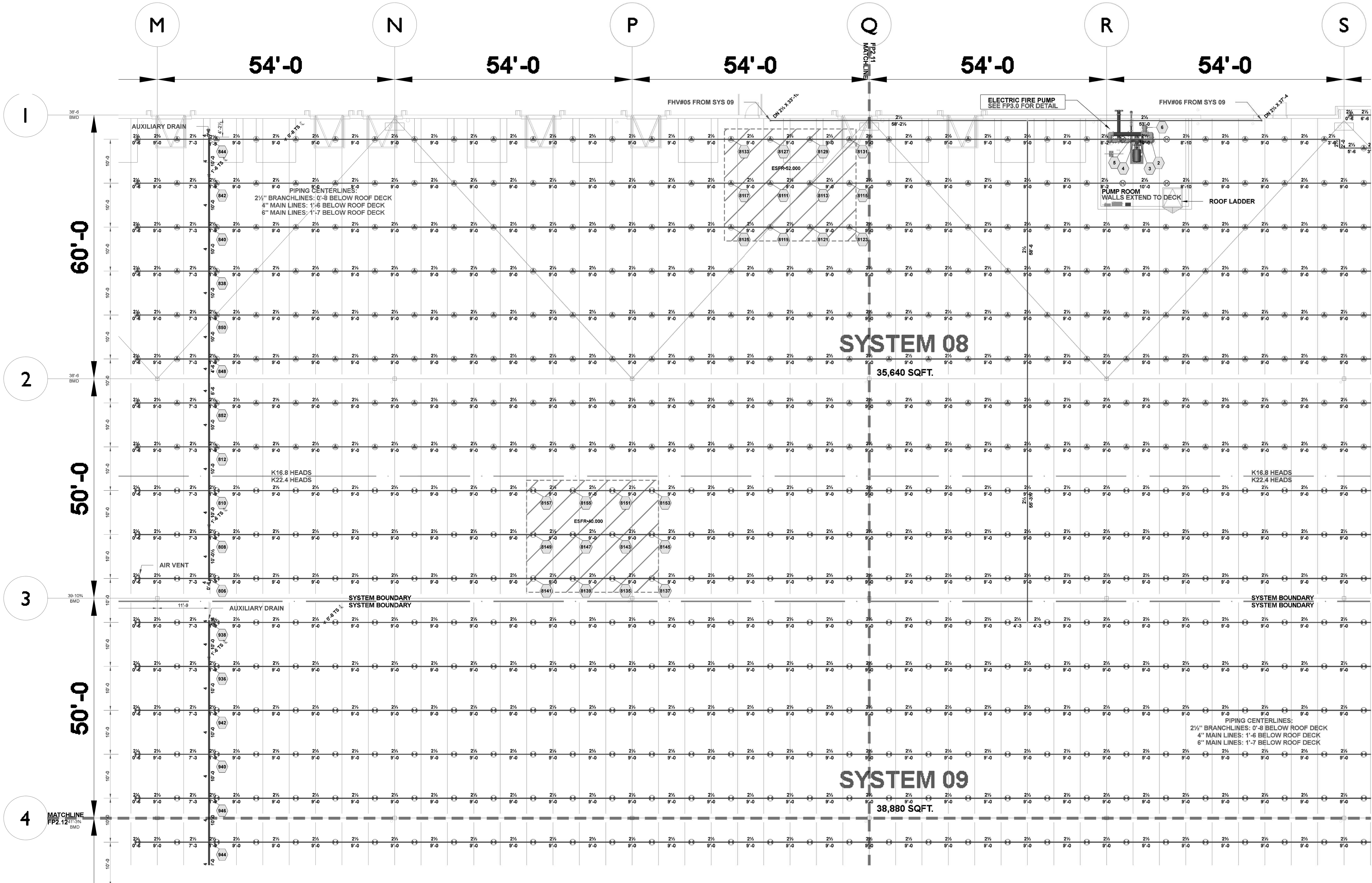
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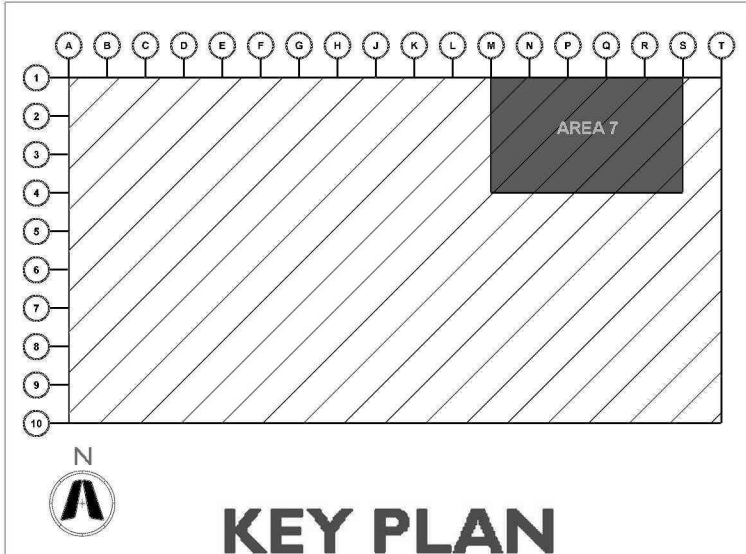
210300  
**FP2.7.1**  
AREA 7: SYSTEMS  
08-09



| Hydraulic Information    |                 | Hydraulic Information    |                 |
|--------------------------|-----------------|--------------------------|-----------------|
| Remote Area 08 (K16.8)   |                 | Remote Area 08           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            | OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 52.000 (ESFR)   | MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          | TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              | TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 16.8            | K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1711.90         | TOTAL WATER REQUIRED     | 1956.95         |
| TOTAL PRESSURE REQUIRED  | 66.082          | TOTAL PRESSURE REQUIRED  | 69.282          |
| BASE OF RISER (GPM)      | 1711.90         | BASE OF RISER (GPM)      | 1956.95         |
| BASE OF RISER (PSI)      | 66.082          | BASE OF RISER (PSI)      | 69.282          |
| SAFETY MARGIN (PSI)      | +23.496 (26.2%) | SAFETY MARGIN (PSI)      | +18.213 (20.8%) |

AREA 7: SYSTEMS 08-09  
SCALE: 3/32" = 1'-0"

| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
|                  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1"   | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







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ARCHITECTURE

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INDIANAPOLIS, IN 46216  
O :: 317.288.0681  
F :: 317.288.0753



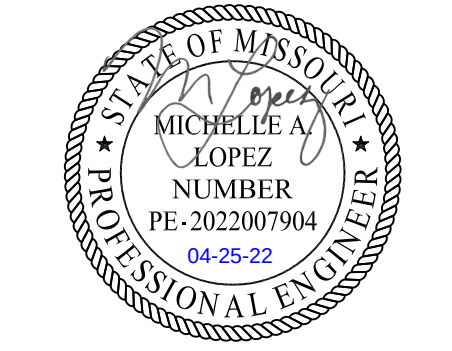
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PROJECT INFORMATION

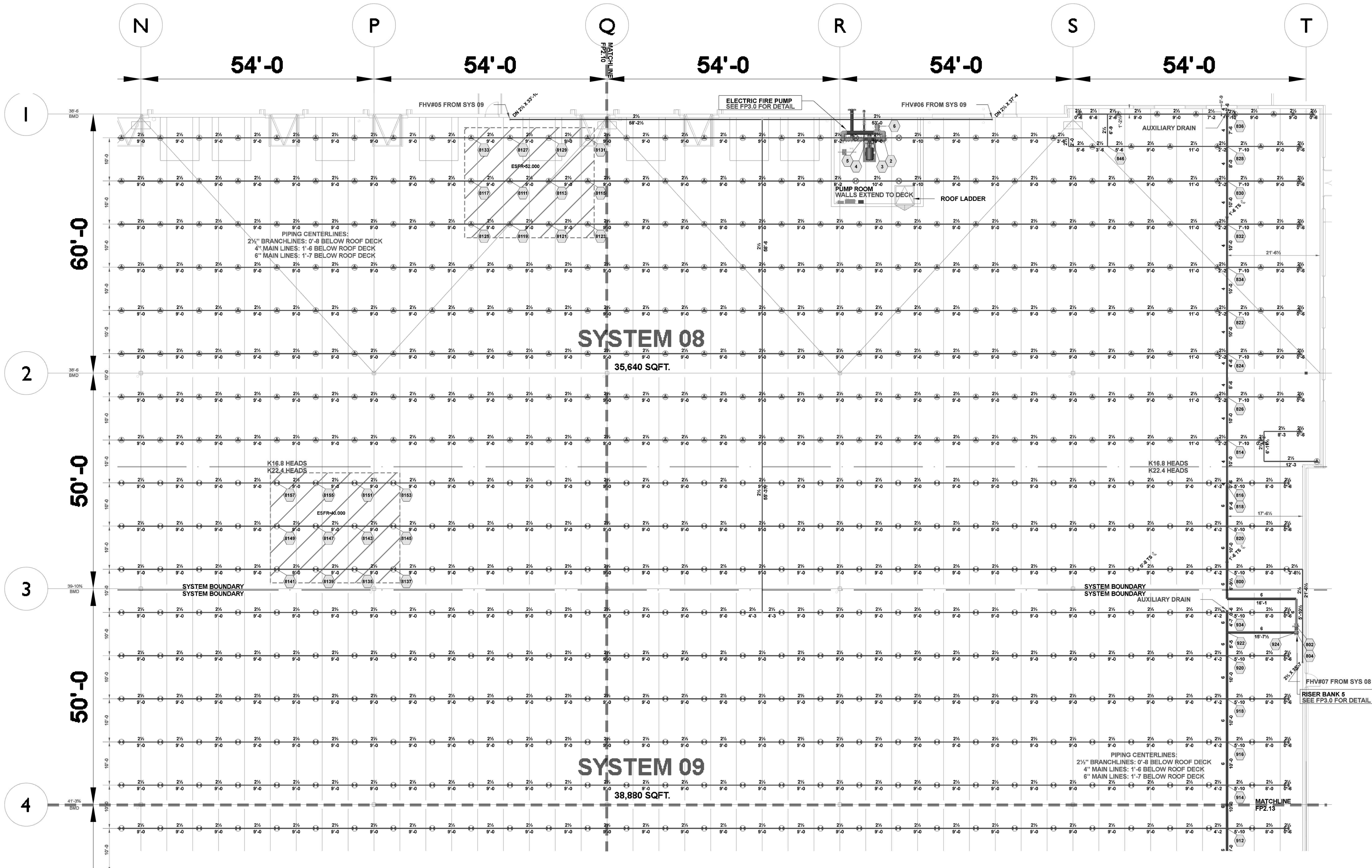
LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I  
NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



ISSUE DATES

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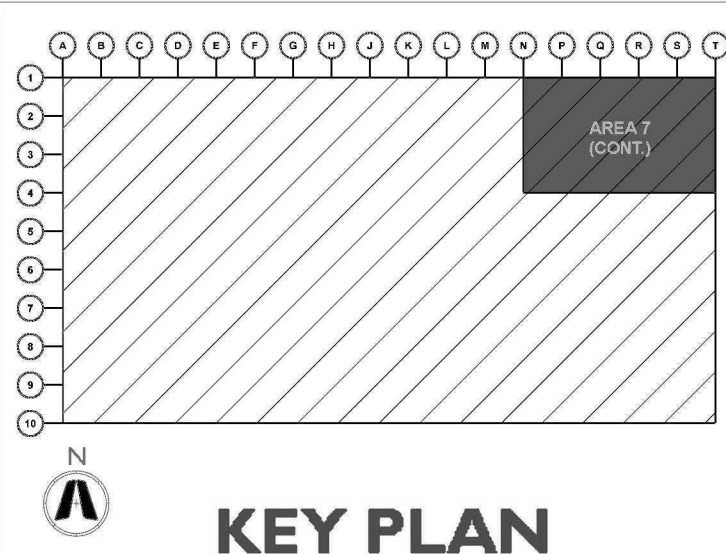
210300  
**FP2.7.2**  
AREA 7(CONT):  
SYSTEMS 08-09



| Hydraulic Information    |                 | Hydraulic Information    |                 |
|--------------------------|-----------------|--------------------------|-----------------|
| Remote Area 08 (K16.8)   |                 | Remote Area 08           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            | OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 52.000 (ESFR)   | MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          | TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              | TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 16.8            | K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1711.90         | TOTAL WATER REQUIRED     | 1956.95         |
| TOTAL PRESSURE REQUIRED  | 66.082          | TOTAL PRESSURE REQUIRED  | 69.282          |
| BASE OF RISER (GPM)      | 1711.90         | BASE OF RISER (GPM)      | 1956.95         |
| BASE OF RISER (PSI)      | 66.082          | BASE OF RISER (PSI)      | 69.282          |
| SAFETY MARGIN (PSI)      | +23.496 (26.2%) | SAFETY MARGIN (PSI)      | +18.213 (20.8%) |

AREA 7(CONT): SYSTEMS 08-09  
SCALE: 3/32" = 1'-0"

| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
|                  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1"   | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







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ARCHITECTURE

5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317 . 288 . 0681  
F :: 317 . 288 . 0753



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I  
NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



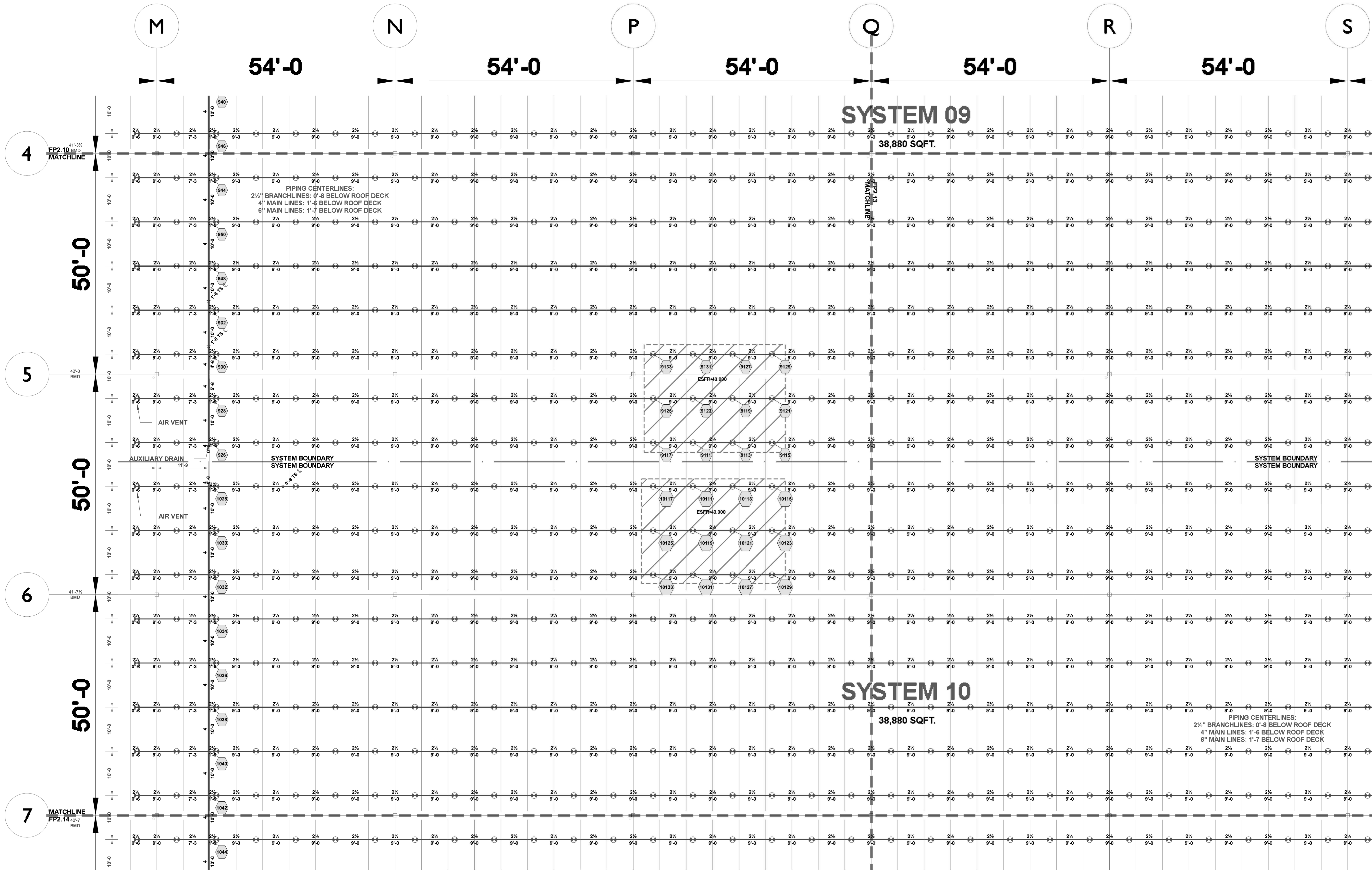
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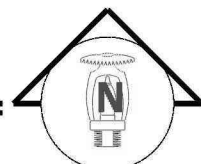
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AREA 8: SYSTEMS  
09-10



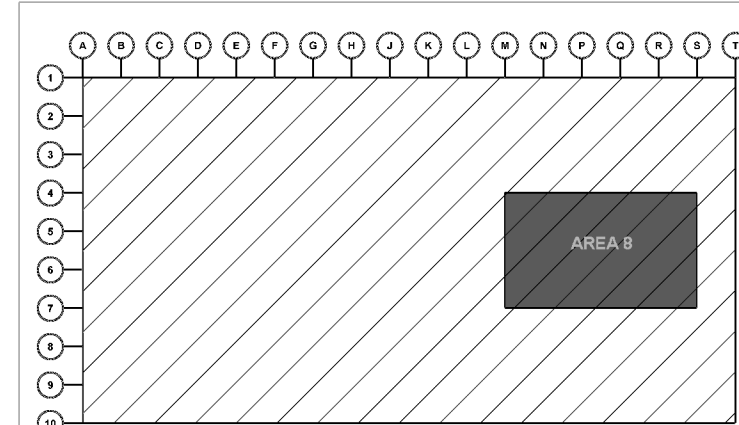
AREA 8: SYSTEMS 09-10

SCALE: 3/32" = 1'-0"



| Hydraulic Information    |                 | Hydraulic Information    |                 |
|--------------------------|-----------------|--------------------------|-----------------|
| Remote Area 09           |                 | Remote Area 10           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            | OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 40.000 (ESFR)   | MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          | TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              | TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 22.4            | K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1956.69         | TOTAL WATER REQUIRED     | 1958.59         |
| TOTAL PRESSURE REQUIRED  | 65.034          | TOTAL PRESSURE REQUIRED  | 65.345          |
| BASE OF RISER (GPM)      | 1956.69         | BASE OF RISER (GPM)      | 1958.59         |
| BASE OF RISER (PSI)      | 65.034          | BASE OF RISER (PSI)      | 65.345          |
| SAFETY MARGIN (PSI)      | +22.463 (25.7%) | SAFETY MARGIN (PSI)      | +22.135 (25.3%) |

| Sprinkler Legend                                                                      |          |              |       |       |          |         |      |          |        |             |      |
|---------------------------------------------------------------------------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|------|
| SYMBOL                                                                                | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE | NOTE |
|  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 3/4  | QUICK    | BRASS  | 200°F       |      |
|  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 3/4  | QUICK    | BRASS  | 200°F       |      |
|  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1    | FAST     | BRASS  | 212°F       |      |
| TOTAL = 4812                                                                          |          |              |       |       |          |         |      |          |        |             |      |



KEY PLAN





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ARCHITECTURE

5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317 . 288 . 0681  
F :: 317 . 288 . 0753



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



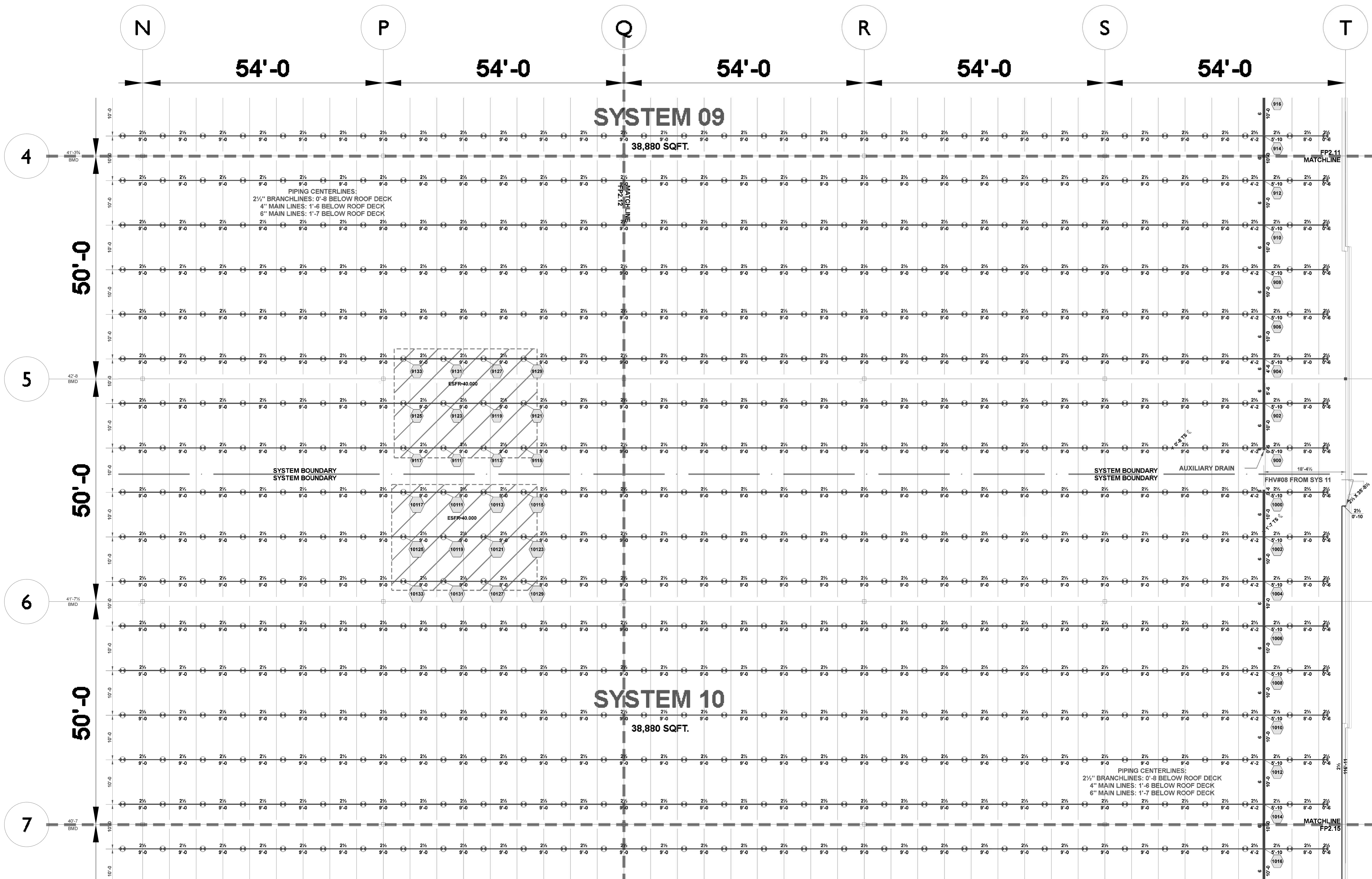
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**FP2.8.2**

AREA 8 (CONT.):  
SYSTEMS 09-10

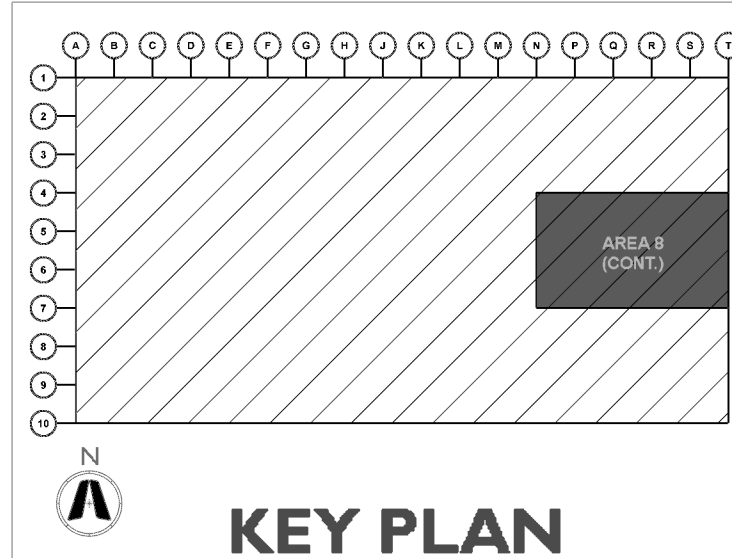


| Hydraulic Information    |                 | Hydraulic Information    |                 |
|--------------------------|-----------------|--------------------------|-----------------|
| Remote Area 09           |                 | Remote Area 10           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            | OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 40.000 (ESFR)   | MIN. END HEAD PRESSURE   | 40.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          | TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              | TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 22.4            | K-FACTOR                 | 22.4            |
| TOTAL WATER REQUIRED     | 1956.69         | TOTAL WATER REQUIRED     | 1958.89         |
| TOTAL PRESSURE REQUIRED  | 65.034          | TOTAL PRESSURE REQUIRED  | 65.345          |
| BASE OF RISER (GPM)      | 1956.69         | BASE OF RISER (GPM)      | 1958.89         |
| BASE OF RISER (PSI)      | 65.034          | BASE OF RISER (PSI)      | 65.345          |
| SAFETY MARGIN (PSI)      | +22.463 (25.7%) | SAFETY MARGIN (PSI)      | +22.135 (25.3%) |

AREA 8 (CONT.): SYSTEMS 09-10

SCALE: 3/32" = 1'-0"

| Sprinkler Legend                                                                      |          |              |       |       |          |         |      |          |        |             |      |
|---------------------------------------------------------------------------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|------|
| SYMBOL                                                                                | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE | NOTE |
|  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 3/4  | QUICK    | BRASS  | 200°F       |      |
|  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 3/4  | QUICK    | BRASS  | 200°F       |      |
|  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1    | FAST     | BRASS  | 212°F       |      |
| TOTAL = 4812                                                                          |          |              |       |       |          |         |      |          |        |             |      |







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INDIANAPOLIS, IN 46216  
O :: 317 . 288 . 0681  
F :: 317 . 288 . 0753



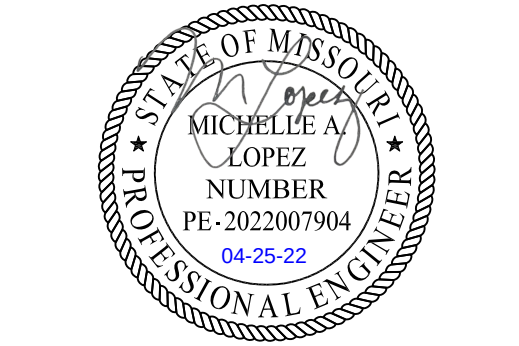
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

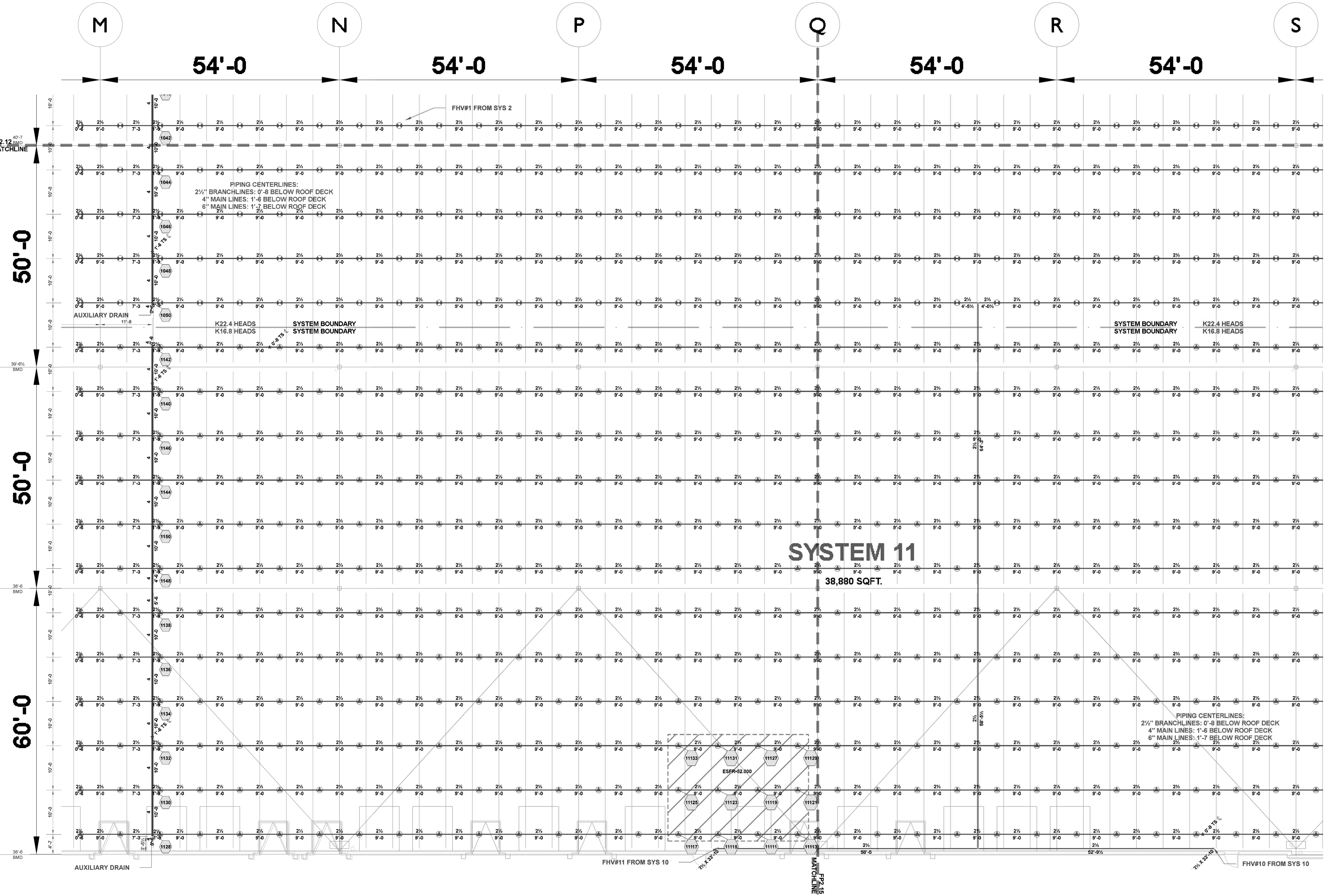
NW CORNER OF  
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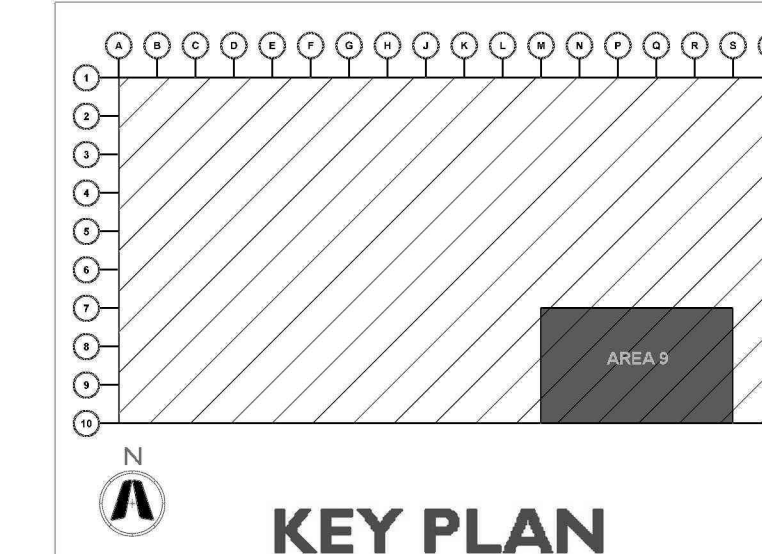
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**FP2.9.1**  
AREA 9: SYSTEMS  
10-11



| Hydraulic Information    |                 |
|--------------------------|-----------------|
| Remote Area 11           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 52.00 (ESFR)    |
| TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 16.8            |
| TOTAL WATER REQUIRED     | 1708.55         |
| TOTAL PRESSURE REQUIRED  | 75.705          |
| BASE OF RISER (GPM)      | 1708.55         |
| BASE OF RISER (PSI)      | 75.705          |
| SAFETY MARGIN (PSI)      | +13.901 (15.5%) |

AREA 9: SYSTEMS 10-11  
SCALE: 3/32" = 1'-0"

| Sprinkler Legend |          |              |       |       |          |         |      |          |        |             |
|------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|
| SYMBOL           | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE |
|                  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | 3/4" | QUICK    | BRASS  | 200°F       |
|                  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1"   | FAST     | BRASS  | 212°F       |
| TOTAL = 4812     |          |              |       |       |          |         |      |          |        |             |







**CURRAN**  
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317.288.0681  
F :: 317.288.0753



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LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

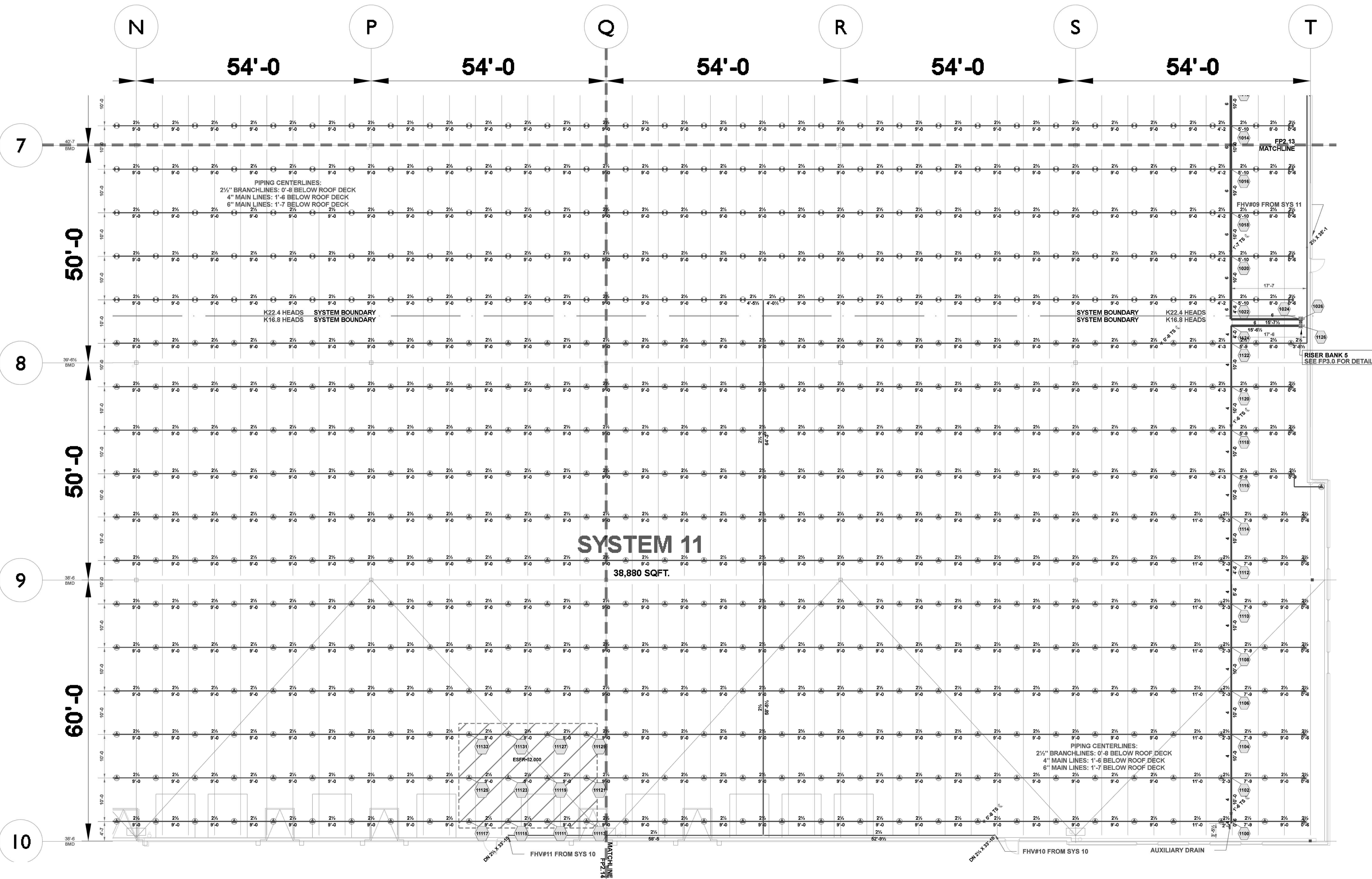
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LEE'S SUMMIT, MO 64086



ISSUE DATES

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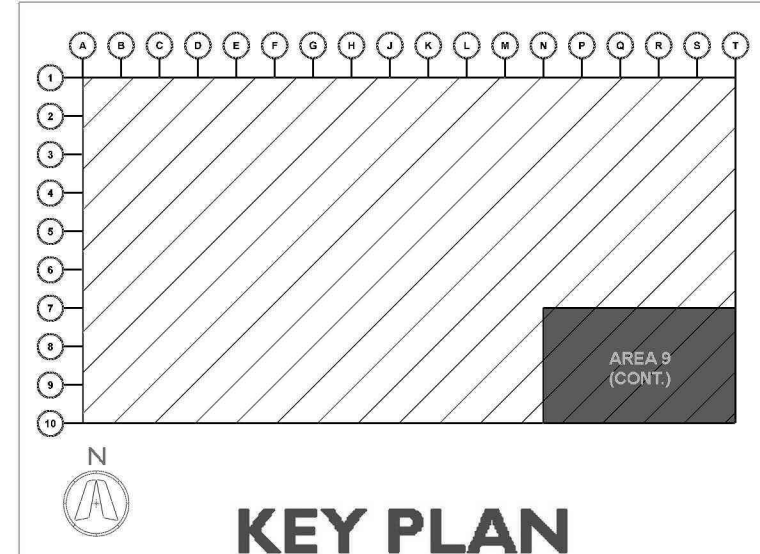
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AREA 9(CONT.):  
SYSTEMS 10-11



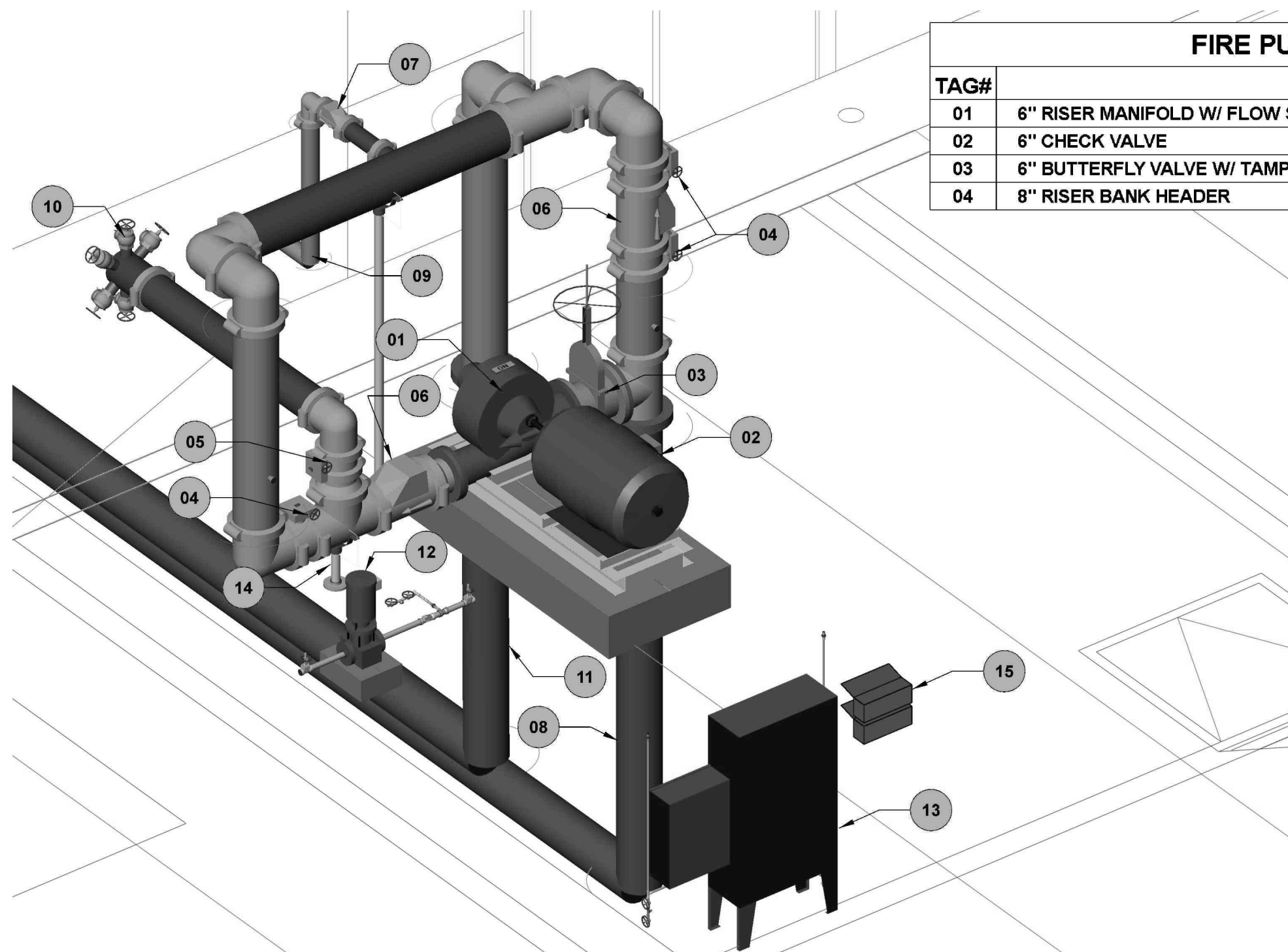
| Hydraulic Information    |                 |
|--------------------------|-----------------|
| Remote Area 11           |                 |
| OCCUPANCY CLASSIFICATION | ESFR            |
| MIN. END HEAD PRESSURE   | 52.000 (ESFR)   |
| TOTAL HOSE STREAMS       | 250.00          |
| TOTAL HEADS FLOWING      | 12              |
| K-FACTOR                 | 16.8            |
| TOTAL WATER REQUIRED     | 1708.55         |
| TOTAL PRESSURE REQUIRED  | 75.705          |
| BASE OF RISER (GPM)      | 1708.55         |
| BASE OF RISER (PSI)      | 75.705          |
| SAFETY MARGIN (PSI)      | +13.901 (15.5%) |

AREA 9(CONT.): SYSTEMS 10-11  
SCALE: 3/32" = 1'-0"

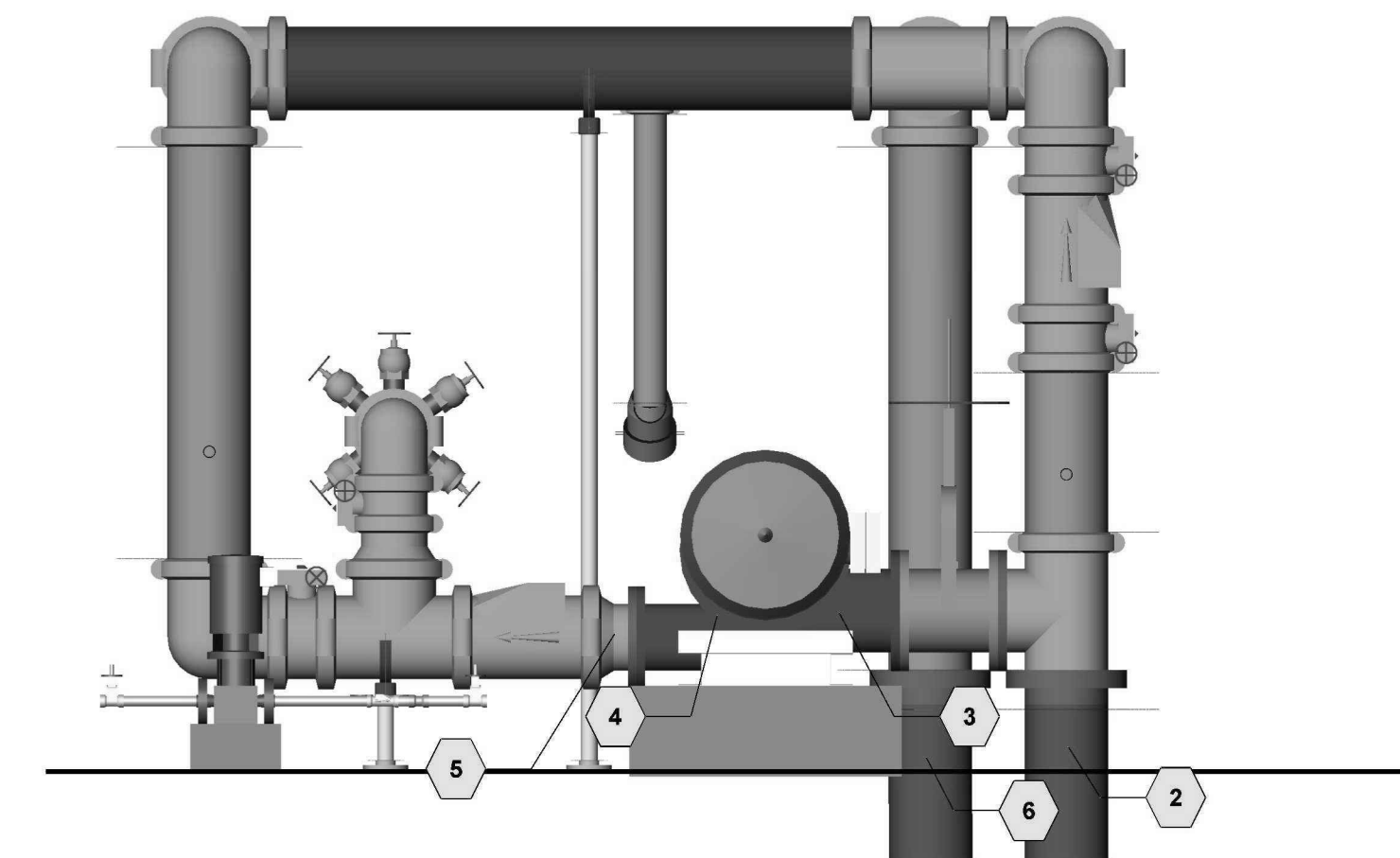
| Sprinkler Legend                                                                      |          |              |       |       |          |         |      |          |        |             |      |
|---------------------------------------------------------------------------------------|----------|--------------|-------|-------|----------|---------|------|----------|--------|-------------|------|
| SYMBOL                                                                                | QUANTITY | MANUFACTURER | SIN   | MODEL | K-FACTOR | TYPE    | SIZE | RESPONSE | FINISH | TEMPERATURE | NOTE |
|  | 2054     | VICTAULIC    | V4702 | ESFR  | 16.8     | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
|  | 4        | VICTAULIC    | V3406 | V34   | 8        | PENDENT | ¾    | QUICK    | BRASS  | 200°F       |      |
|  | 2754     | VICTAULIC    | V4902 | ESFR  | 22.4     | PENDENT | 1    | FAST     | BRASS  | 212°F       |      |
| TOTAL = 4812                                                                          |          |              |       |       |          |         |      |          |        |             |      |







**PUMP ROOM (3D VIEW)**  
SCALE: 3/32" = 1'-0"



**FIRE PUMP (SECTION B-B)**  
SCALE: 1/2" = 1'-0"

**FIRE PUMP NOTES:**  
-IN ADDITION TO THE FOLLOWING NOTES, ALL WORK AND MATERIAL SHALL CONFORM TO NFPA 13 AND NFPA 20, AS APPLICABLE

**NFPA 20 REQUIREMENTS:**

**EQUIPMENT PROTECTION:**  
SUITABLE MEANS SHALL BE PROVIDED FOR MAINTAINING THE TEMPERATURE OF A PUMP ROOM OR PUMP HOUSE, WHERE REQUIRED, ABOVE 40 DEG F. ARTIFICIAL LIGHT SHALL BE PROVIDED IN THE PUMP ROOM OR PUMP HOUSE. EMERGENCY LIGHTING SHALL BE PROVIDED BY FIXED OR PORTABLE BATTERY OPERATED LIGHTS, INCLUDING FLASHLIGHTS. EMERGENCY LIGHTS SHALL NOT BE CONNECTED TO AN ENGINE STARTING BATTERY. PROVISION SHALL BE MADE FOR VENTILATION OF THE PUMP ROOM OR PUMP HOUSE. FLOORS SHALL BE PITCHED FOR ADEQUATE DRAINAGE OF ESCAPING WATER AWAY FROM CRITICAL EQUIPMENT SUCH AS THE PUMP, DRIVER, CONTROLLER, ECT. THE PUMP ROOM OR PUMP HOUSE SHALL BE PROVIDED WITH A FLOOR DRAIN THAT WILL DISCHARGE TO A FROST-FREE LOCATION.

**PIPE AND FITTINGS:**  
WHERE CORROSIVE CONDITIONS EXIST, THE STEEL SUCTION PIPE SHALL BE GALVANIZED. ALL PROVISIONS FOR WELDED PIPE SHALL BE IN ACCORDANCE WITH NFPA 51B, STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK.

**SUCTION PIPE AND FITTINGS:**  
THE SUCTION PIPE SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA. A BY-PASS SHALL BE INSTALLED AROUND THE PUMP WHEN THE SUCTION PRESSURE IS OF MATERIAL VALUE WITHOUT THE PUMP. THE PIPE SIZE OF THE BY-PASS SHALL BE AS LARGE AS THE SIZE REQUIRED FOR SUCTION PIPE IN NFPA 20. THE BY-PASS CONTROL VALVES SHALL BE NORMALLY OPEN

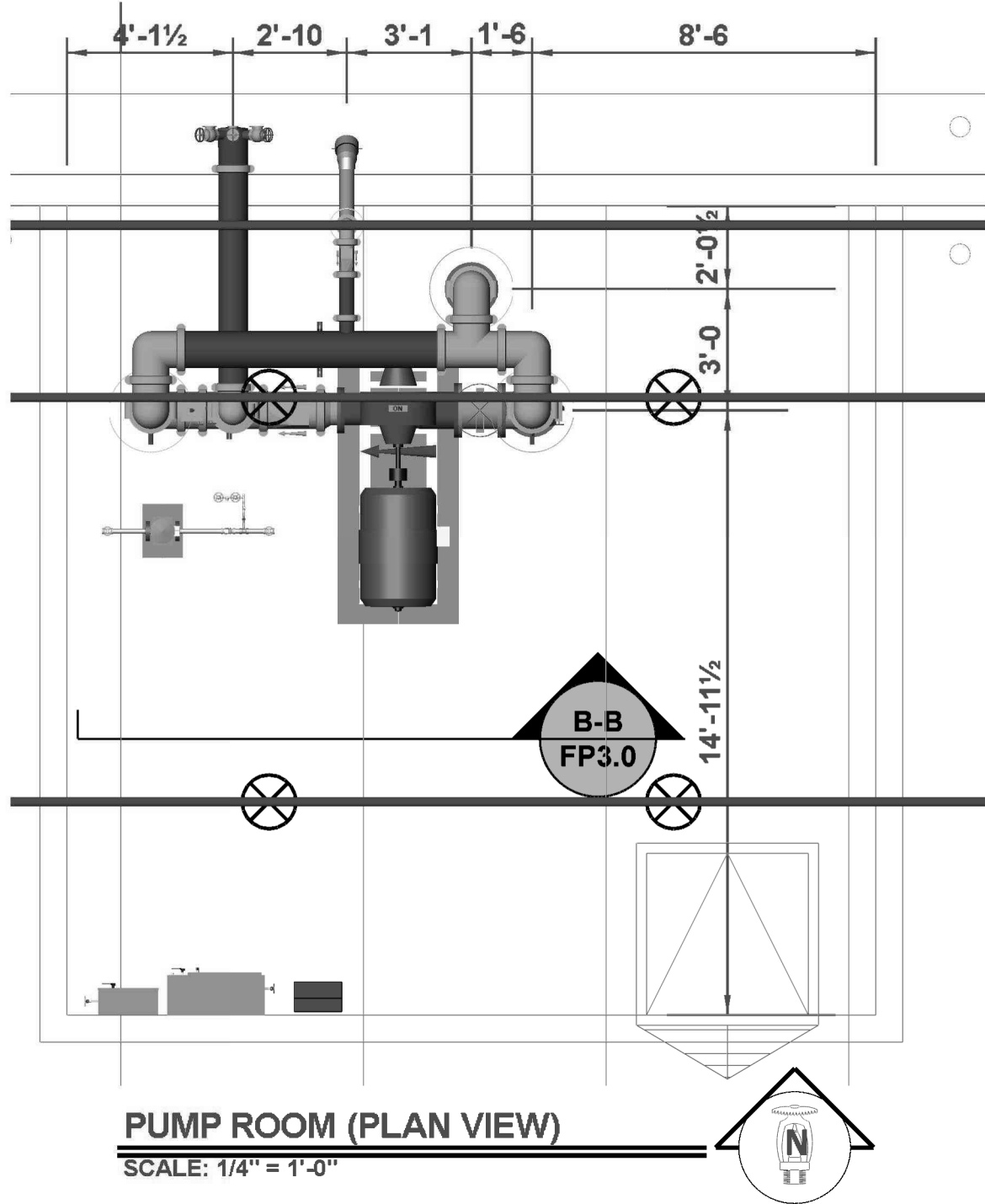
**DISCHARGE PIPE:**  
SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13. THE SIZE OF THE PUMP DISCHARGE PIPE AND FITTINGS SHALL BE NOT LESS THAN THAT GIVEN IN NFPA 20.

**ELECTRIC DRIVE FOR PUMPS:**  
ALL ELECTRICAL WORK TO SUPPLY POWER TO THE FIRE PUMP SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF NFPA 20. ELECTRICAL WORK SHALL COMPLY WITH NFPA 70, ARTICLE 695 AND OTHER APPLICABLE ARTICLES. THE FIRE PUMP FEEDER CIRCUIT CONDUCTORS AND THEIR ACCESSORIES SHALL BE DEDICATED AND PROTECTED TO RESIST POSSIBLE DAMAGE BY FIRE, STRUCTURAL FAILURE, OR OPERATIONAL ACCIDENT. THE SUPPLY CONDUCTORS DIRECTLY CONNECT THE POWER SOURCE TO THE LISTED FIRE PUMP CONTROLLER.

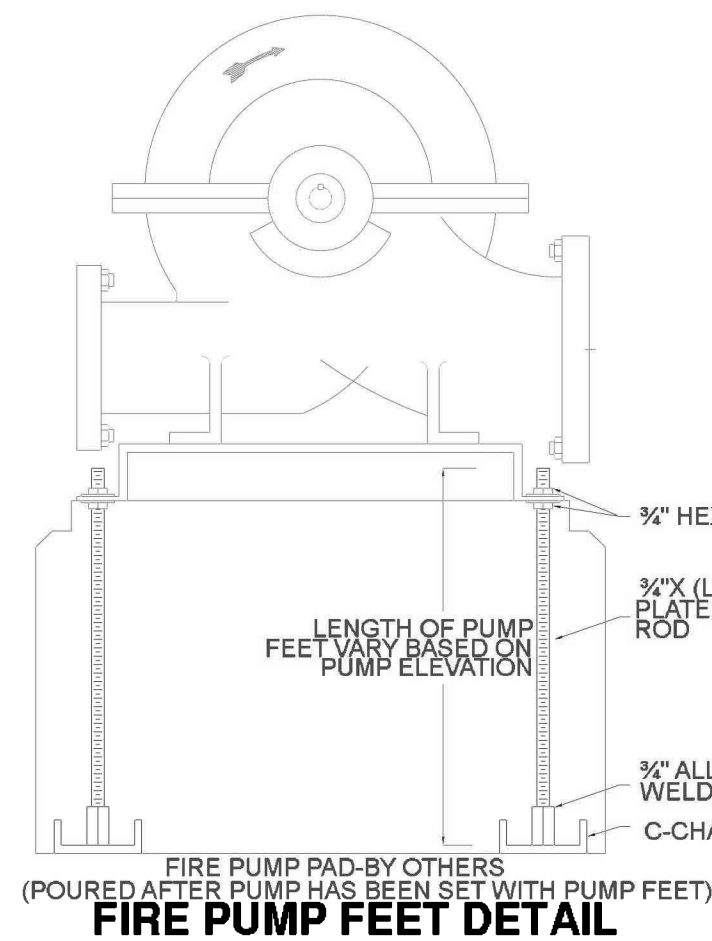
**FIRE PUMP CONTROLLER:**  
SHALL BE WIRED FOR MANUAL SHUTDOWN. FIRE PUMP SHALL BE MONITORED FOR THE FOLLOWING CONDITIONS: FIRE PUMP OR MOTOR RUNNING, LOSS OF PHASE, PHASE REVERSAL.

| FIRE PUMP RISER BANK MATERIAL LIST |                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------|
| TAG#                               | MATERIAL CALL OUT                                                                        |
| 01                                 | 6" RISER MANIFOLD W/ FLOW SWITCH, INSP. TEST AND 2" MAIN DRAIN, & PRESSURE RELIEF VALVES |
| 02                                 | 6" CHECK VALVE                                                                           |
| 03                                 | 6" BUTTERFLY VALVE W/ TAMPER (NORMALLY OPEN)                                             |
| 04                                 | 8" RISER BANK HEADER                                                                     |

| FIRE PUMP ROOM MATERIAL LIST |                                                   |
|------------------------------|---------------------------------------------------|
| TAG#                         | MATERIAL CALL OUT                                 |
| 01                           | 2000 GPM @ 80 PSI 10X8 FIRE PUMP                  |
| 02                           | SPP 100 HP ELECTRIC MOTOR                         |
| 03                           | 10" FLG OS&Y GATE VALVE W/ TAMPER (NORMALLY OPEN) |
| 04                           | 10" BUTTERFLY VALVE W/ TAMPER (NORMALLY OPEN)     |
| 05                           | 8" BUTTERFLY VALVE W/ TAMPER (NORMALLY CLOSED)    |
| 06                           | 10" CHECK VALVE                                   |
| 07                           | 4" CHECK VALVE                                    |
| 08                           | 10" UNDERGROUND SUPPLY PIPING                     |
| 09                           | 4" FDC PIPING W/ STORZ TYPE CONNECTION            |
| 10                           | 8X2½(6) TEST HEADER                               |
| 11                           | 10" WATER DISCHARGE PIPING TO 6" SYSTEM RISERS    |
| 12                           | 2 HP JOCKEY PUMP ASSEMBLY (15 GPM @ 104 PSI)      |
| 13                           | ELECTRIC & JOCKEY PUMP CONTROLLERS                |
| 14                           | 10" PIPE STAND                                    |
| 15                           | SPARE HEAD BOXES                                  |

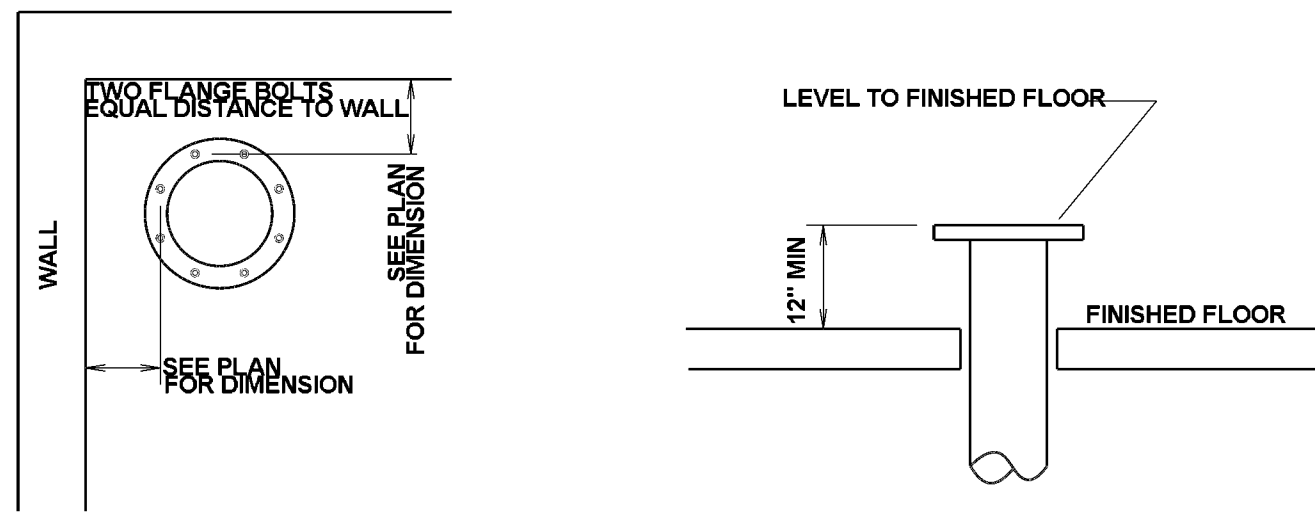


**PUMP ROOM (PLAN VIEW)**  
SCALE: 1/4" = 1'-0"

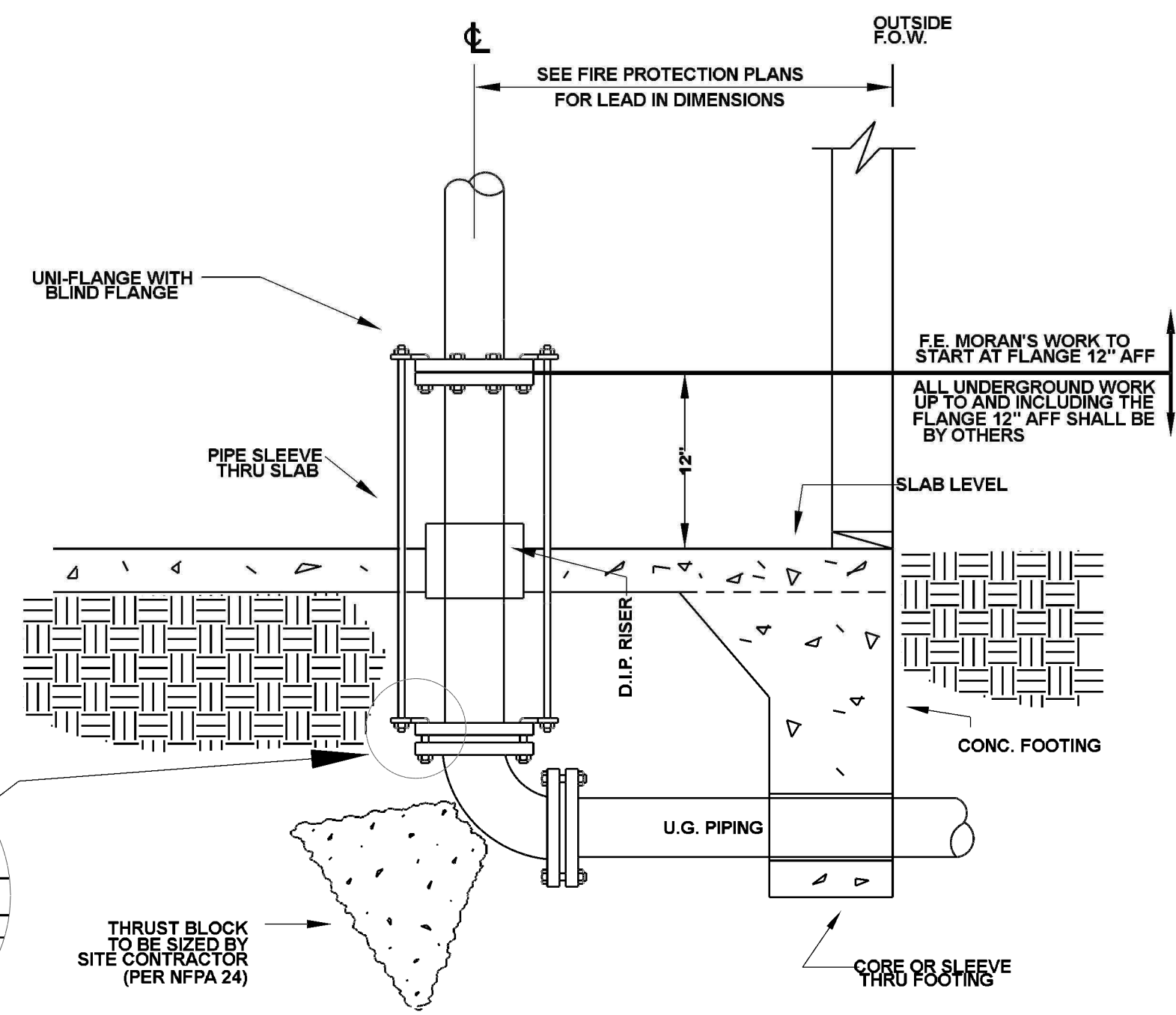


**FIRE PUMP FEET DETAIL**

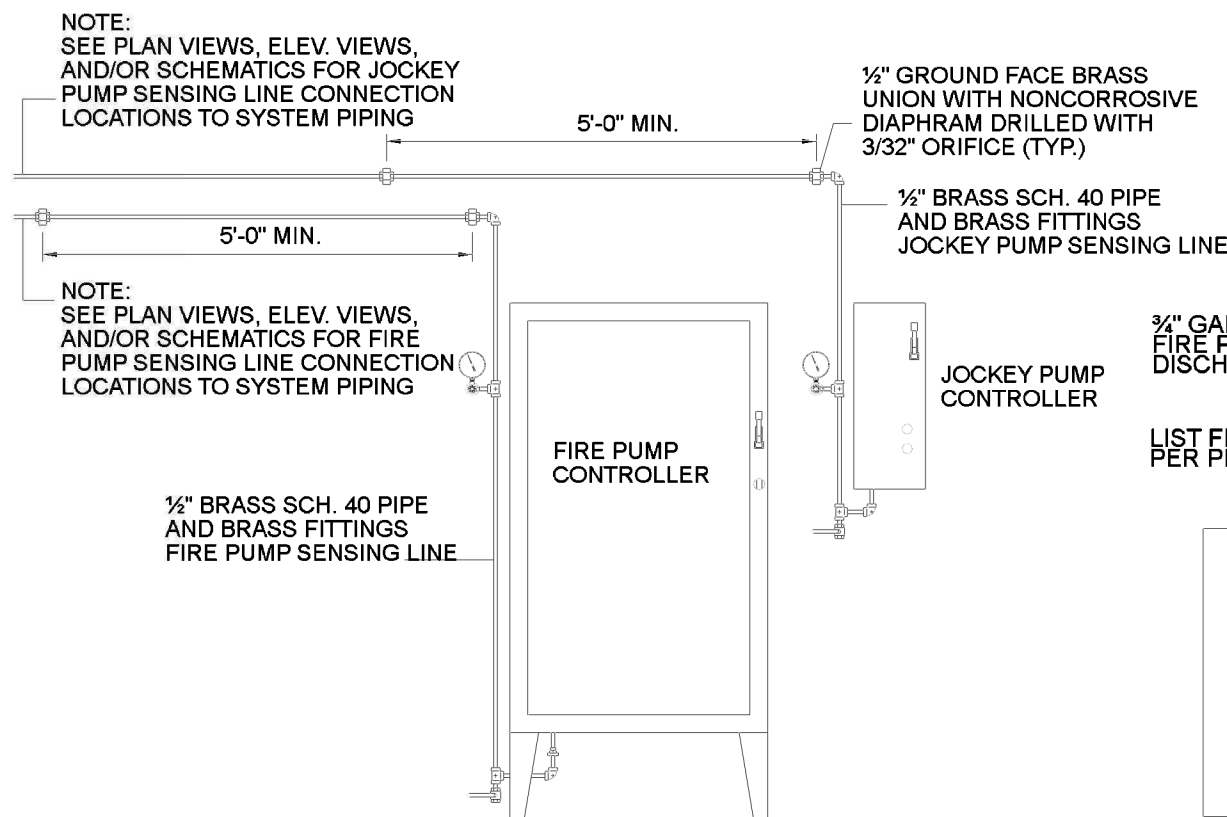
NOTE: ALL FIRE PROTECTION PIPING STUB-UPS WHETHER INSIDE OR OUTSIDE A BUILDING (INCLUDING PUMP ROOMS), SHALL BE INSTALLED UTILIZING THE "2-HOLE METHOD" ON ALL FLANGES. THE FLANGE SHALL BE INSTALLED WITH THE BOLT HOLES ALIGNED SO THAT FITTING, VALVES, AND EQUIPMENT ARE IN A SQUARE ALIGNMENT WITH ADJACENT WALLS AND FLOOR.



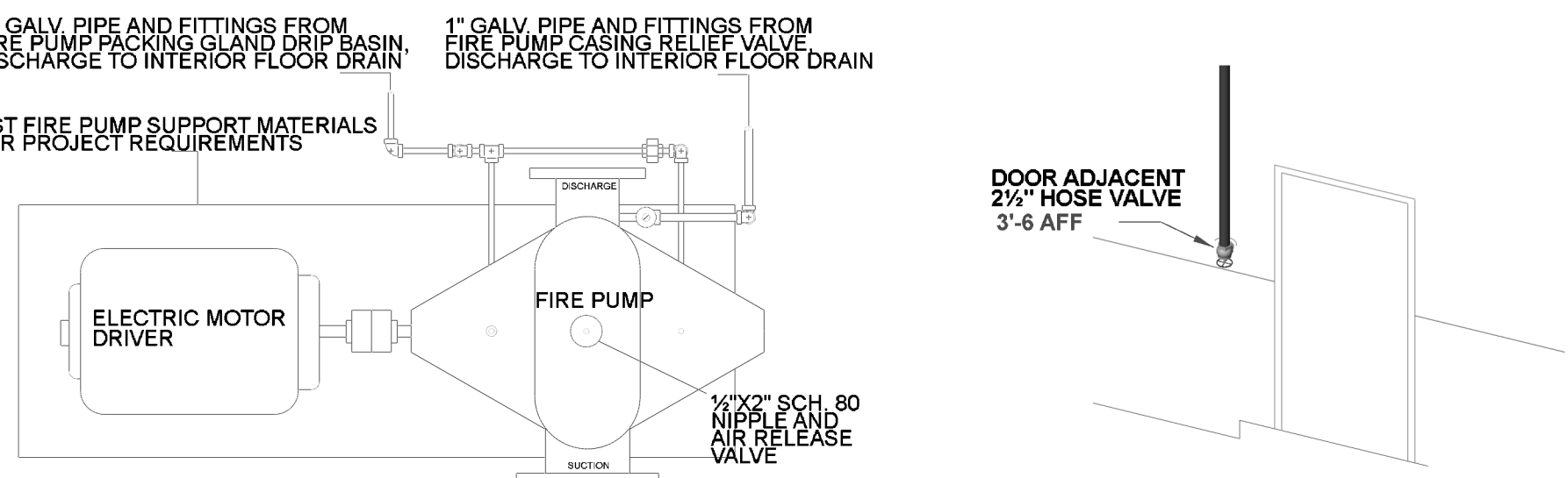
**INCOMING FIRE PROTECTION SUPPLY DETAIL**  
NOT TO SCALE



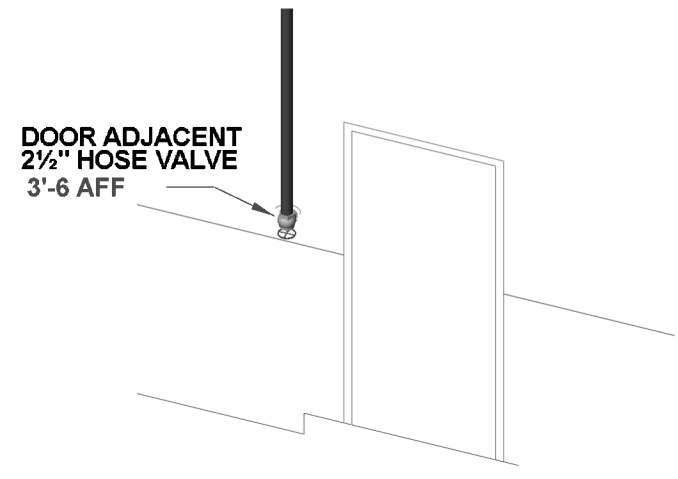
**TYPICAL UNDERGROUND LEAD-IN**



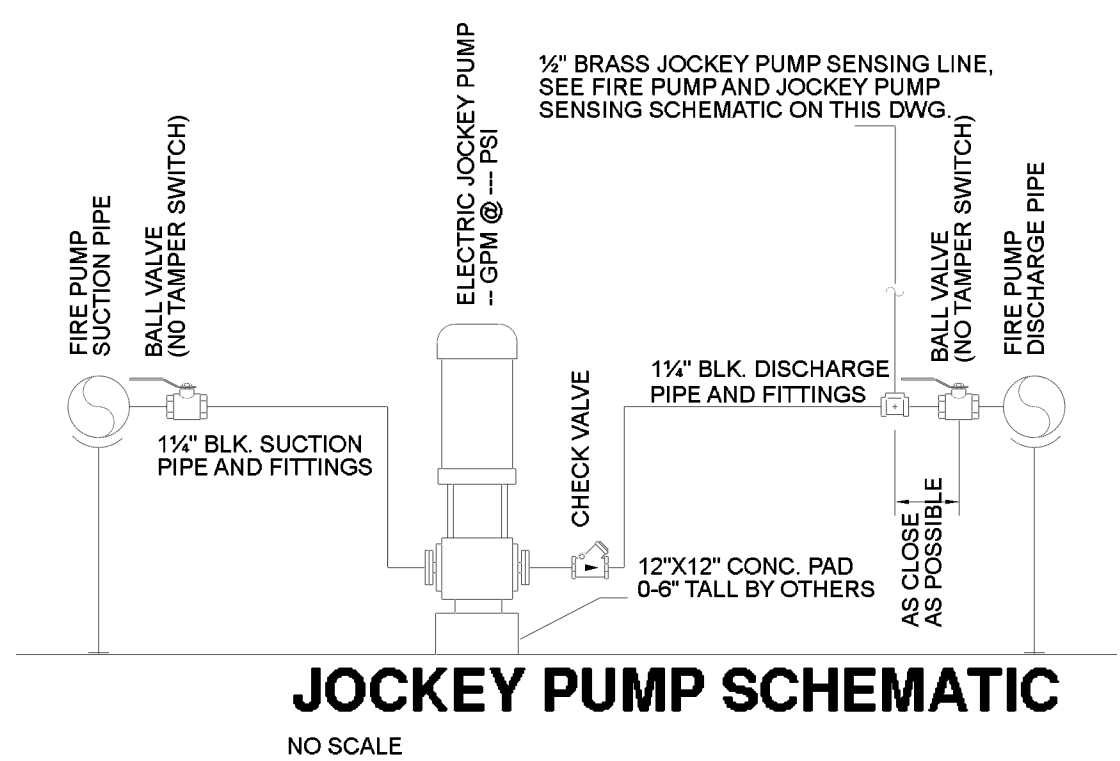
**FIRE PUMP AND JOCKEY PUMP SENSING SCHEMATIC**  
NO SCALE



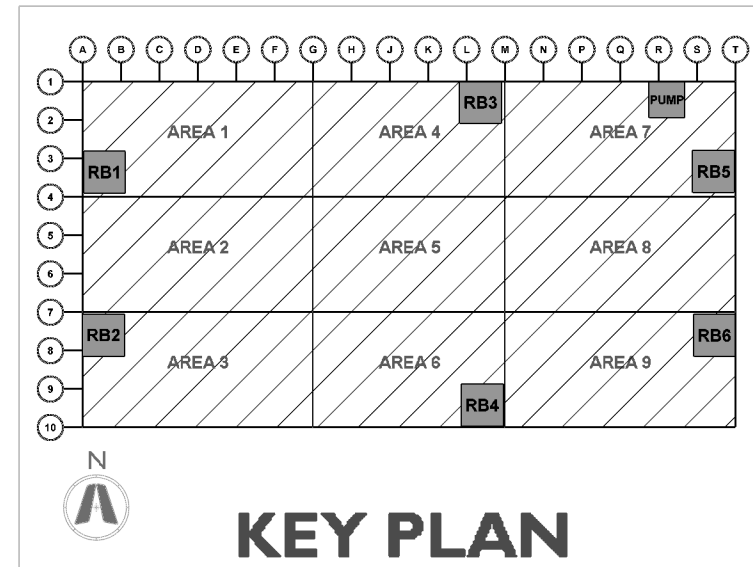
**ELECTRIC FIRE PUMP SCHEMATIC**  
NO SCALE



**TYPICAL HOSE STATION**  
N.T.S.



**JOCKEY PUMP SCHEMATIC**  
NO SCALE



**KEY PLAN**



**CURRAN**  
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
O :: 317 . 288 . 0681  
F :: 317 . 288 . 0753



**SCANNELL**  
PROPERTIES

CERTIFICATION

THIS DRAWING AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE THE EXCLUSIVE INTELLECTUAL PROPERTY OF CURRAN ARCHITECTURE, AND ARE NOT TO BE USED OR REPRODUCED, WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF CURRAN ARCHITECTURE.

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



ISSUE DATES

PERMIT SET 02.18.22

210300

**FP3.0**

FIRE PUMP & RISER  
DETAIL