

TOTAL

RELEASED FOR CONSTRUCTION As Noted on Plan Review

> Lee's Summit Fire Department Lee's Summit, Missouri 04/21/2024



VA. - VALVE BOR - BASE OF RISER

SP - SPRIG DR - DROP SSU - STANDARD SPRAY UPRIGHT SSP - STANDARD SPRAY PENDENT HSW - HORZONTAL SIDE WALL QR - QUICK RESPONCE EC - EXTENDED COVERAGE BJ - BAR JOIST WF - WIDE FLANGE (I-BEAM) ATR - ALL THREAD ROD

(13) - HYDRAULIC REFERENCE NODE

BASEMENT AREA: 4,936 SQ. FT.

1ST FLOOR AREA: 4,665 SQ. FT.

FOR APPROVAL REVIEWING AUTHORITY **FLOW TEST DATA:** A.F.C. - ABOVE FINISHED CELLING
BCD - BOTTOM OF CONCRETE DECK
TOS & TS - TOP OF STEEL (ROOF PLAIN
AbT - Above bottom of Truss
DIP - DUTILE IRON PIPE
C.I. - CAST IRON
F.D.C. - FIRE DEPT. CONNECTION
G & GVD. - GROOVED
GALV. - GALVANIZED
G.S.N. - WELDED GROOVED OUTLET
M.T. - MECHANICAL TEE
P.O.L. - WELDED THREADED OUTLET
R.C. - REDUCER COUPLING
RED. - REDUCER
T & THD. - THREADED
XAS VALXE OF NAMED CLUBHOUSE TOTAL HEADS THIS SHEET STATIC: - 84 RESIDUAL: - 58 50 HWY & BLACKWELL TOTAL HEADS FOR JOB FLOW: - 2000 gpm Lee's Summit, MO 220 LOCATION: - SE JOEL AVE SCALE BY: - LEE'S SUMMIT WATER 1/4" = 1'-0 DEPARTMENT

DRAWN BY

I.W.

DATE DRAWN

3/8/24

CONTRACT NUMBER

NC-1429

DRAWING NUMBER

FP1 of 5

REVISIONS

DATE DESCRIPTION

RESIDENCES AT BLACKWELL

Alliance Fire Protection

130 W 9th Ave Suite 101 NORTH KANSAS CITY, MO 64116 PHONE (913) 888-0647 FAX (913) 888-0618

PIPE TYPE:

BASEMENT — WET SYSTEM:

ALL PIPING TO BE CPVC PLASTIC PIPE THREAD MAKE MODEL KF TEMP. SYMBOL QUANT HANGER SPACING TABLE 1ST FLOOR/ATTIC — DRY SYSTEM:
ALL 1" PIPE TO BE THREADED SCH 40
ALL PIPE 1 1/4" AND LARGER TO BE WELDED
WELDED LINES/MAINS: SCH 10 HANGER SPACING FOR PLASTIC PIPE HANGER SPACING FOR STEEL PIPE PIPE SIZE 1", 1¼" HANGER SPACING <u>PIPE SIZE</u> HANGER SPACING BUILDING TYPE: NEW 1½" & LARGER CONSTRUCTION: WOOD TRUSS

U.N.O. - UNLESS NOTED OTHERWISE — 0 — GROOVED COUPLING - HYDRAULIC REFERENCE POINT

1 - RING

TYP. HANGER #17 NO SCALE

TYP. HANGER #05A

OF WATER-BASED FIRE PROTECTION SYSTEMS

ALL ELECTRICAL WIRING TO BE BY OTHERS ALL UNDERGROUND WORK TO BE BY OTHERS

OF THE SYSTEM. VENT SHALL BE EITHER:

1) MANUAL VALVE (½" MINIMUM)

3) OTHER APPROVED METHODS

REQUIREMENTS AND APPLICABLE NFPA STANDARDS

TO PREVENT PIPING FROM FREEZING

DURING INSTALLATION

FREE OF COMBUSTIBLES

2) AUTOMATIC

1 - MODEL GST 30

For pipe sizes

SAMMY SUPER SCREW

4—inch and smaller

1 -- A.T.R.

1 -- RING 1 -- EYE SOCKET

1 -- WASHER

GENERAL NOTES & LEGEND THESE SHOP DRAWINGS ARE BASED ON THE OWNER'S ACCEPTANCE OF NFPA 25

AS THE OWNER'S STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE

OWNER TO PROVIDE ADEQUATE HEAT THROUGHOUT ALL AREAS WITH WET PIPE

ALL DESIGN, MATERIAL & INSTALLATION TO COMPLY WITH ALL LOCAL

B.I.C. DESIGN CO. ASSUMES NO LIABILITY FOR USING UNLISTED OR

CENTRAL MONITORING OF SPRINKLER SYSTEM TO BE BY OTHERS

ALL SPRINKLER PIPING TO BE SUPPORTED IN ACCORDANCE W/ NFPA 13 ALL PENETRATIONS THROUGH FIRE—RATED PARTITIONS AND FLOORS TO BE FIRESTOPPED WITH U.L. LISTED FIRESTOP SYSTEMS WITH A RATING EQUIVALENT TO THE RATING OF THE PARTITION OR FLOOR

IF WET PIPE SYSTEM PRESENT, INSTALL AIR VENT NEAR THE HIGH POINT

TJ - TOP OF WOOD OR STEEL JOIST ELEVATION ABOVE FIN. FLR.

TOS - TOP OF STEEL BEAM ELEVATION ABOVE FIN. FLR.

BOP - BOTTOM OF STEEL PURLIN ELEVATION ABOVE FIN. FLR.

BOS — BOTTOM OF CONCRETE SLAB ELEVATION ABOVE FIN. FLR.

B.O.T. DIM. - BOTTOM OF TRUSS ELEVATION ABOVE FIN. FLR.

B.O.B. DIM. — BOTTOM OF BEAM ELEVATION ABOVE FIN. FLR.

♥ DIM. – CENTER LINE OF PIPE BELOW STRUCTURE ELEVATION

EL. DIM. - CENTER LINE OF PIPE ELEVATION ABOVE FIN. FLR.

UNSPECIFIED MATERIALS AND FOR ANY ALTERATIONS MADE TO THIS DESIGN

SPRINKLERS REQUIRED IN ALL CONCEALED SPACES THAT CONTAIN COMBUSTIBLES. SPRINKLERS NOT REQUIRED IN CONCEALED SPACES THAT ARE COMPLETELY

DIM. - FINISHED CEILING HEIGHT ABOVE FIN. FLR. POL - PIPE-0-LET G.S.N. - GROOVE SHAPED NIPPLE DN - DOWN OR DROP NIPPLE RN - RISER NIPPLE H.I.F. – TO BE HUNG IN FIELD COJ - CUT ON JOB N.T.S. - NOT TO SCALE

1 – RING 1 - 'SIDEWINDER'

For pipe sizes

 $3\frac{1}{2}$ —inch and

smaller

TYP. HANGER #15

ND SCALE

1 -- RING 1 -- EYE SOCKET

TYP. HANGER #05

1 -- WASHER

1 -- LAG BOLT

MODEL SWG 20

1 − ¾" A.T.R.

For pipe sizes 3—inch and smaller

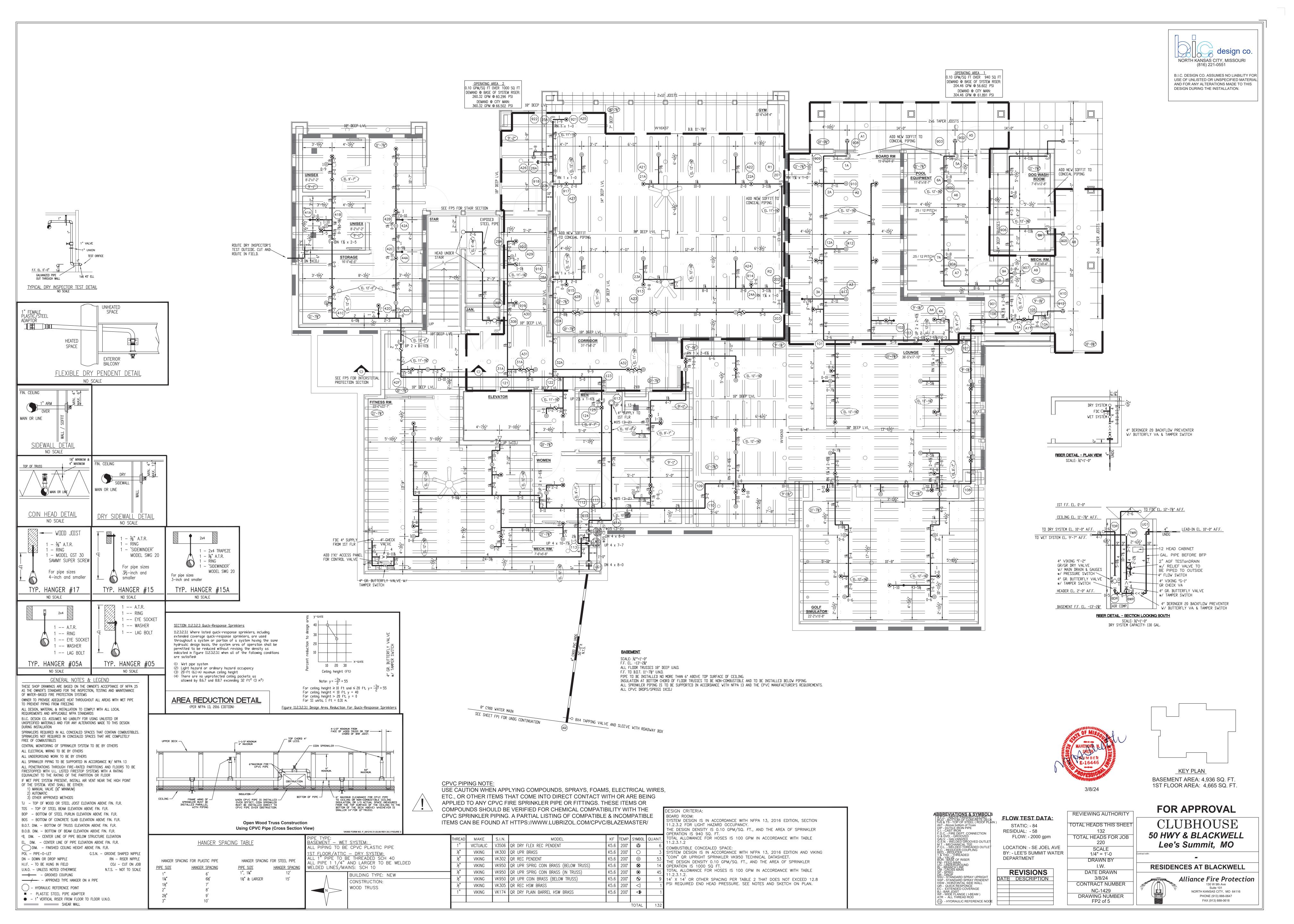
TYP. HANGER #15A

NO SCALE

- RING - 'SIDEWINDER'

MODEL SWG 20

PLASTIC STEEL PIPE ADAPTER – 1" VERTICAL RISER FROM FLOOR TO FLOOR U.N.O. SHEAR WALL





THREAD MAKE

VIKING

VICTUALIC

VIKING

VIKING

VIKING

VIKING

VIKING

VK180 QR ADJ REC DRY PENDENT

V3506 QR DRY FLEX REC PENDENT

VK300 QR UPR BRASS

VK305 QR REC HSW

VK484 RESIDENTIAL HSW

VK305 QR REC HSW BRASS

VK182 QR DRY REC HSW

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G.S.N. - GROOVE SHAPED NIPPLE

RN - RISER NIPPLE

COJ - CUT ON JOB

N.T.S. - NOT TO SCALE

DIM. - FINISHED CEILING HEIGHT ABOVE FIN. FLR.

— / – APPROVED TYPE HANGER ON A PIPE

– 1" VERTICAL RISER FROM FLOOR TO FLOOR U.N.O.

POL - PIPE-O-LET

DN - DOWN OR DROP NIPPLE

H.I.F. — TO BE HUNG IN FIELD

U.N.O. - UNLESS NOTED OTHERWISE

() – HYDRAULIC REFERENCE POINT

PLASTIC STEEL PIPE ADAPTER

SHEAR WALL

——— — GROOVED COUPLING

HANGER SPACING TABLE

PIPE SIZE

1½"& LARGER

HANGER SPACING FOR PLASTIC PIPE

HANGER SPACING

<u>PIPE SIZE</u>

HANGER SPACING FOR STEEL PIPE

HANGER SPACING

BASEMENT - WET SYSTEM:

WELDED LINEŚ/MAINS: SCH 10

ALL PIPING TO BE CPVC PLASTIC PIPE

1ST FLOOR/ATTIC — DRY SYSTEM: ALL 1" PIPE TO BE THREADED SCH 40 ALL PIPE 1 1/4" AND LARGER TO BE WELDED

BUILDING TYPE: NEW

CONSTRUCTION:

WOOD TRUSS

ONSISTS OF THE FOUR ADJACENT SPRINKLERS THAT PRODUCE THE

GREATEST HYDRAULIC DEMAND. THE MINIMUM DISCHARGE FROM EACH

SPRINKLER TO BE: (1) THE MINIMUM FLOW RATE INDICATED IN THE HEAD

8.5.2.1, WHICHEVER IS GREATER. TOTAL ALLOWANCE FOR HOSES IS 100

GPM IN ACCORDANCE WITH TABLE 11.2.3.1.2. RESIDENTIAL OCCUPANCIES

SYSTEM DESIGN IS IN ACCORDANCE WITH NFPA 13, 2016 EDITION, SECTION

THE DESIGN DENSITY IS 0.10 GPM/SQ. FT., AND THE AREA OF SPRINKLER

TOTAL ALLOWANCE FOR HOSES IS 100 GPM IN ACCORDANCE WITH TABLE

MAXIMUM SPACING PER RESIDENTIAL SPRINKLER HEAD TO BE 12'X12'.

ARE CLASSIFIED AS LIGHT HAZARD PER PARAGRAPH A.4.3.2.

1.2.3.2 FOR LIGHT HAZARD OCCUPANCY.

OPERATION IS 2535 SQ. FT.

11.2.3.1.2

TOTAL

OVER THE PROTECTION AREA OF COVERAGE IN ACCORDANCE WITH PARAGRAPH

LISTING, OR (2) BASED ON DELIVERING A MINIMUM OF 0.10 GPM/SQ.FT.



FOR APPROVAL CLUBHOUSE 50 HWY & BLACKWELL Lee's Summit, MO

TOTAL HEADS FOR JOB

220

SCALE

DRAWN BY

I.W.

DATE DRAWN

3/8/24

NC-1429

DRAWING NUMBER

FP3 of 5

CONTRACT NUMBER

1/4" = 1'-0

FLOW: - 2000 gpm

LOCATION: - SE JOEL AVE

REVISIONS

DATE DESCRIPTION

DEPARTMENT

BY: - LEE'S SUMMIT WATER

GALV. - GALVANIZED
G.S.N. - WELDED GROOVED OUTLET
M.T. - MECHANICAL TEE
P.O.L. - WELDED THREADED OUTLE
R.C. - REDUCER COUPLING
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SSU - STANDARD SPRAY UPRIGHT SSP - STANDARD SPRAY PENDENT HSW - HORZONTAL SIDE WALL QR - QUICK RESPONCE EC - EXTENDED COVERAGE BJ - BAR JOIST WF - WIDE FLANGE (I-BEAM) ATR - ALL THREAD ROD

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