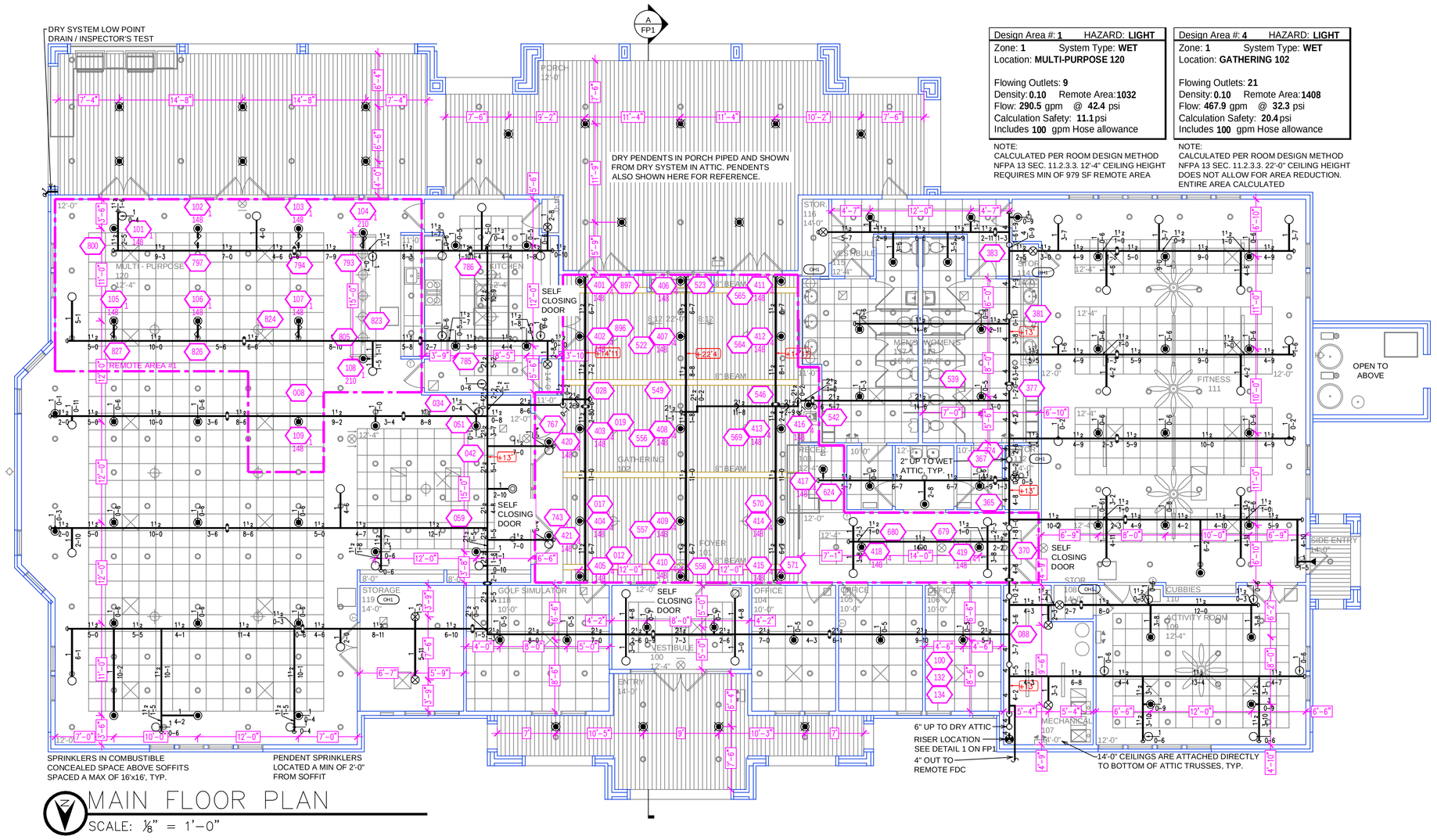


MAIN FLOOR PLAN
SCALE: ⅛" = 1'-0"

Design Area #: 1	HAZARD: LIGHT
Zone: 1	System Type: WET
Location: MULTI-PURPOSE 120	
Flowing Outlets: 9	
Density: 0.10	Remote Area: 1032
Flow: 290.5 gpm	@ 42.4 psi
Calculation Safety: 11.1 psi	
Includes 100 gpm Hose allowance	

NOTE:
CALCULATED PER ROOM DESIGN METHOD
NFPA 13 SEC. 11.2.3.3. 12'-4" CEILING HEIGHT REQUIRES MIN OF 979 SF REMOTE AREA

Design Area #: 4	HAZARD: LIGHT
Zone: 1	System Type: WET
Location: GATHERING 102	
Flowing Outlets: 21	
Density: 0.10	Remote Area: 1408
Flow: 467.9 gpm	@ 32.3 psi
Calculation Safety: 20.4 psi	
Includes 100 gpm Hose allowance	

NOTE:
CALCULATED PER ROOM DESIGN METHOD
NFPA 13 SEC. 11.2.3.3. 22'-0" CEILING HEIGHT DOES NOT ALLOW FOR AREA REDUCTION. ENTIRE AREA CALCUATED

BUILDING SECTION
SCALE: ⅛" = 1'-0"

1. INDIANA STATE BUILDING CODE (2014)

   1.1. OCCUPANCY: A-3
   1.2. TYPE OF CONSTRUCTION: VB
   1.3. SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
   MAIN FLOOR = 12,038 S.F.
   ATTIC = 12,038 S.F.
   TOTAL = 24,076 S.F.

   1.4. INSTALLATION STANDARDS:
   SPRINKLER SYSTEM DESIGNED AND INSTALLED PER **NFPA-13 (2010)**

2. SPRINKLER PIPE TYPES:
   -WET-
   2.1. 1" BRANCH LINES TO BE MEGA THREAD PIPING WITH THREADED FITTINGS
   2.2. 1-1/4" THROUGH 4" MAIN & BRANCH LINES TO BE MEGA FLOW PIPING WITH SHORT RADIUS GROOVED FITTINGS
   2.3. 4'-0" FLEXHEAD FLEXIBLE SPRINKLER HOSE WITH A MAX OF FOUR BENDS CALCULATED
   -DRY-
   2.4. 1" BRANCH LINES TO BE MEGA THREAD PIPING WITH THREADED FITTINGS
   2.5. 1-1/4" THROUGH 6" MAIN & BRANCH LINES TO BE MEGA FLOW PIPING WITH SHORT RADIUS GROOVED FITTINGS
   2.6. 1" SPRIGS TO BE MEGA THREAD WITH THREADED FITTINGS

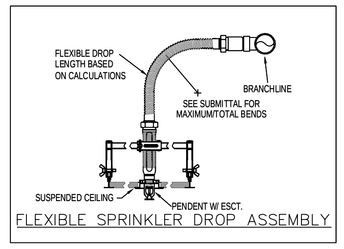
3. DESIGN CRITERIA
   3.1. MECHANICAL ROOM & SIMILAR AREAS ARE DESIGNED TO ORDINARY HAZARD GROUP 1
   3.1. OFFICES, ATTIC & SIMILAR AREAS ARE DESIGNED TO LIGHT HAZARD
   3.2. REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2.3

4. NOTES:
   4.1. ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
   4.2. HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2010) - **SEE PLAN FOR HANGING REQ.**
   4.3. DRY SYSTEM PIPE SLOPE INSTALLATION:
   SPRINKLER MAINS TO BE ½" PER 10 FEET
   SPRINKLER BRANCH LINES TO BE ¼" PER 10 FEET
   4.4. DRY SYSTEM CAPACITY
   275.3 GAL.

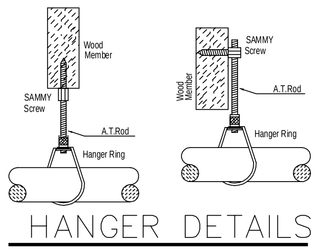
5. SYMBOLS USED ON DRAWINGS:
   +10" PIPE ELEVATION A.F.F
   -45" PIPE ELEVATION BELOW B.O.D
   OH1 ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
   F3 HYDRAULIC CALCULATION JUNCTION POINT
   0'-0" CEILING HEIGHT

6. SCOPE OF WORK:
   6.1. TO INSTALL A NEW SPRINKLER SYSTEM IN EASTON GREY CLUBHOUSE. THE SYSTEM SHALL HAVE 2 ZONES; ZONE 1 FEEDING THE MAIN FLOOR AND THE CONDITIONED ATTIC AND ZONE 2 FEEDING THE DRY ATTIC.
   6.2. ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2010).

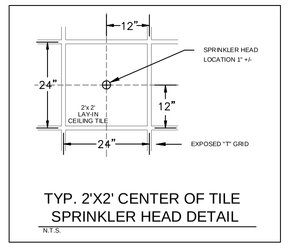
NFPA 13 STEEL PIPE HANGER SPACING (EXCEPT LIGHT WALL THRD PIPING)	
NOMINAL SIZE inches	MAX SPACING feet
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"



FLEXIBLE SPRINKLER DROP ASSEMBLY

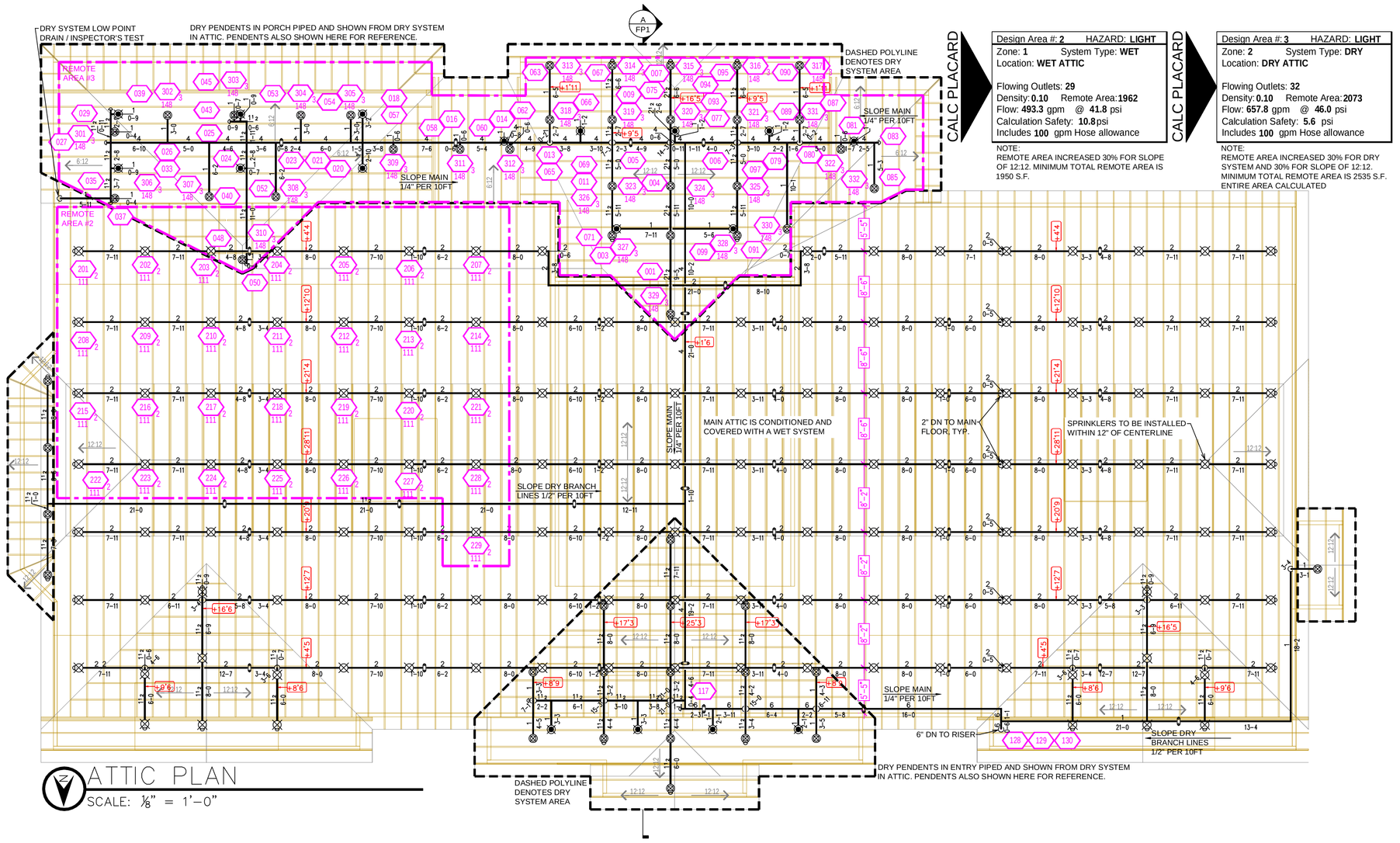


HANGER DETAILS



TYP. 2'X2' CENTER OF TILE SPRINKLER HEAD DETAIL
N.T.S.

INSTALLATION DETAILS



ATTIC PLAN
SCALE: ⅛" = 1'-0"

Design Area #: 2	HAZARD: LIGHT
Zone: 1	System Type: WET
Location: WET ATTIC	
Flowing Outlets: 29	
Density: 0.10	Remote Area: 1962
Flow: 493.3 gpm	@ 41.8 psi
Calculation Safety: 10.8 psi	
Includes 100 gpm Hose allowance	

NOTE:
REMOTE AREA INCREASED 30% FOR SLOPE OF 12:12. MINIMUM TOTAL REMOTE AREA IS 1950 S.F.

CALC PLACARD

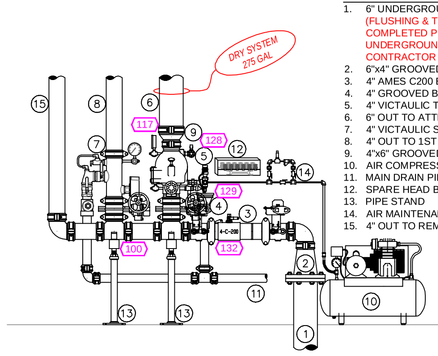
CALC PLACARD

Design Area #: 3	HAZARD: LIGHT
Zone: 2	System Type: DRY
Location: DRY ATTIC	
Flowing Outlets: 32	
Density: 0.10	Remote Area: 2073
Flow: 657.8 gpm	@ 46.0 psi
Calculation Safety: 5.6 psi	
Includes 100 gpm Hose allowance	

NOTE:
REMOTE AREA INCREASED 30% FOR DRY SYSTEM AND 30% FOR SLOPE OF 12:12. MINIMUM TOTAL REMOTE AREA IS 2535 S.F. ENTIRE AREA CALCULATED

RISER LEGEND

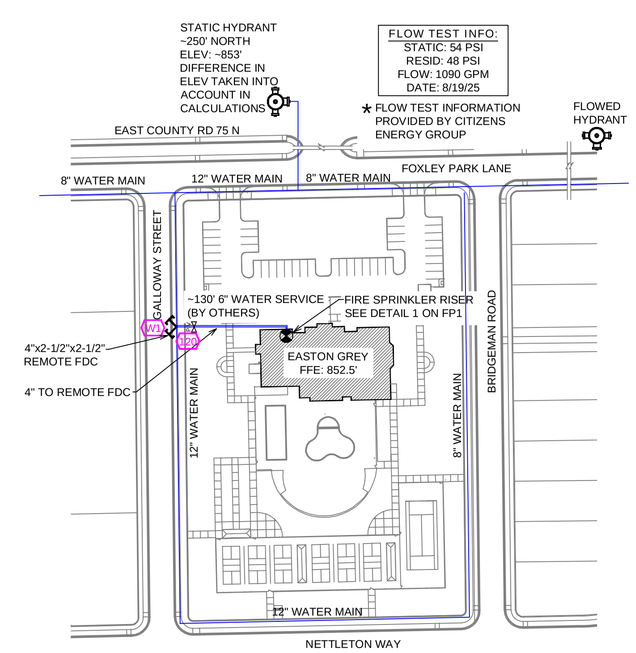
1. 6" UNDERGROUND WATER SERVICE (BY OTHERS)
   (FLUSHING & TESTING OF THE UNDERGROUND SHALL BE COMPLETED PRIOR TO THE SPRINKLER SYSTEM HOOKUP. UNDERGROUND PAPERS ARE TO BE SUPPLIED TO THE "FP" CONTRACTOR BY THE G.C.)
2. 6"x4" GROOVED REDUCER
3. 4" AMES C200 BACKFLOW GXG w/ TAMPER SWITCHES
4. 4" GROOVED BUTTERFLY VALVE w/ TAMPER SWITCH
5. 4" VICTAULIC TYCO DPV-1 DRY VALVE w/ QUICK OPENING DEVICE
6. 6" OUT TO ATTIC (ZONE 2)
7. 4" VICTAULIC SERIES UM UNIVERSIAL MANIFOLD ASSEMBLY
8. 4" OUT TO 1ST FLOOR (ZONE 1)
9. 4"x6" GROOVED INCREASER
10. AIR COMPRESSOR
11. MAIN DRAIN PIPE TO EXTERIOR
12. SPARE HEAD BOX
13. PIPE STAND
14. AIR MAINTENANCE DEVICE
15. 4" OUT TO REMOTE FDC



RISER DETAIL
SCALE: ½" = 1'-0"

* ALL WIRING/INTERFACING OF ALARMS BY OTHERS

* ALL PIPING PENETRATING THE EXTERIOR WALL TO BE GALVANIZED



SITE PLAN
SCALE: 1" = 100'-0"

GENERAL NOTES

1. ALL MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA #13, THE STATE AND LOCAL AUTHORITY HAVING JURISDICTION.
2. ALL BRANCH LINE PIPING SHALL BE THREADABLE THINWALL, OR SCH. 40 WITH CAST IRON FITTINGS.
3. ALL MAIN PIPING SHALL BE SCH. 10 BLACK STEEL THINWALL WITH GROOVED FITTINGS AND WELDED OUTLETS.
4. ALL PIPING SHALL BE PROVIDED WITH APPROVED HANGERS CONFORMING TO STANDARDS OUTLINED IN NFPA#13.
5. PIPING SHALL BE INSPECTED, AND TESTED IN ACCORDANCE WITH NFPA#13.

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON	MAX SPACING
	50	PENDENT	CHROME	200	5.60	1/2"	TY3231	TYCO	TY-FRB	SEMI-RECESS	225 SF (LH); 130 SF (OH)
	37	PENDENT	WHITE	200	5.60	1/2"	TY3231	TYCO	TY-FRB	SEMI-RECESS	225 SF (LH); 130 SF (OH)
	10	UPRIGHT	BRASS	200	5.60	1/2"	TY313	TYCO	TY-FRB	N/A	225 SF (LH); 130 SF (OH)
	53	UPRIGHT	BRASS	200	5.60	1/2"	TY3199	TYCO	CC-3	N/A	16'x16'
	17	DRY PENDENT	WHITE	200	5.60	1"	TY3355	TYCO	DS-1	SEMI-RECESS	225 SF
	52	UPRIGHT SPRIG	BRASS	200	5.60	1/2"	TY313	TYCO	TY-FRB	N/A	120 SF ATTIC
	136	UPRIGHT	BRASS	200	4.20	1/2"	TY2131	TYCO	TY-FRB	N/A	120 SF ATTIC
	1	DRY SIDEWALL	WHITE	200	5.60	1"	TY3355	TYCO	DS-1	SEMI-RECESS	14'x14'

356 TOTAL SPRINKLERS

SPRINKLER HEAD LEGEND

Symbols	
Symbol	Description
[18 psig]	Hydraulic Reference Points
{8-4}	Elev. Below Top of Steel
+ (TOS 20'-0	Elev. Above Finished Floor
	Elev. of Top of Steel
	Ceiling Height
	Denotes Hanger Location
o	Rise up or down

CONTRACTOR:

ADDRESS:

REVISION

DATE	DESCRIPTION	BY

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

EASTON GREY CLUBHOUSE

5179 FOXLEY PARK LANE, AVON, IN 46123

SPRINKLER PLAN

NORTH

DESIGNER	DVG
SCALE	1/8 " = 1'-0"
CHECK BY	JB
FILE NUMBER	
APPROVAL	STATE & LOCAL
DATE	10/8/2025
DRAWING NO.	FP-1