SYMBOL	ABBREVIATION	DESCRIPTION
	EX.	EXISTING TO REMAIN
	NEW	NEW WORK
	DEM.	EXISTING TO BE REMOVED
	DEWI.	
<u> </u>	_	ELBOW UP
<u>C</u>	_	ELBOW DOWN
<del></del>	_	TEE DOWN
O	_	TEE UP
·	_	PIPE CAP OR FLUSHING CONNECTION
	_	GATE VALVE
<u> </u>	_	OS&Y GATE VALVE
ιØι	_	BUTTERFLY VALVE
$\overline{\triangleright}$	_	CHECK VALVE
ι ι	_	UNION
<u> </u>	_	TEMPERATURE GAGE
<b>©</b>	_	PRESSURE GAGE
FS	_	WATER FLOW SWITCH
TS	_	TAMPER SWITCH
	_	INSPECTORS TEST CONNECTION
<b>—</b>	_	FLOW ARROW
*	_	SPRINKLER GUARD
o <sub>E</sub> OR ● <sub>E</sub>	_	EXISTING SPRINKLER TO REMAIN
X OR X	_	EXISTING SPRINKLER TO REMOVED
•		NEW PENDENT SPRINKLER, CONCEALED OR
N O	_	EXPOSED AS NOTED.
O <sub>N</sub>	_	NEW UPRIGHT SPRINKLER
•	_	SIDEWALL SPRINKLER
<u> </u>	_	POINT OF CONNECTION
	_	POINT OF DISCONNECTION
N1	_	HYDRAULIC REFERENCE NODE
<u> </u>	_	HYDRAULIC REFERENCE SPRINKLER
ightharpoons	FDC	FIRE DEPARTMENT CONNECTION
	FP	FIRE PUMP
	AFF	ABOVE FINISHED FLOOR
	AHC	ABOVE HUNG CEILING
	ATC	AT CEILING
	BFP	BACKFLOW PREVENTOR
	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
	DCV	DOUBLE CHECK VALVE BFP
	DN.	DOWN
	FCA	FLOOR CONTROL ASSEMBLY
	FD	FLOOR DRAIN
	FLFD	FUNNEL FLOOR DRAIN
	GPM	GALLONS PER MINUTE
	JP	JOCKEY PUMP
	NFPA	
		NATIONAL FIRE PROTECTION ASSOCIATION
	(NO)	NORMALLY CLOSED
	(NC)	NORMALLY CLOSED
	NTS	NOT TO SCALE
	PRV	PRESSURE REDUCING VALVE
	PSI	POUNDS PER SQUARE INCH
	RPZ	REDUCED PRESSURE ZONE BFP
	SF	SQUARE FOOT
	TS	TAMPER SWITCH
	TYP	TYPICAL
	U.O.N.	UNLESS OTHERWISE NOTED

#### **GENERAL NOTES**

- THE REVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13. THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMESIS.
- COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW AND EXISTING FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION. WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
- CONTRACTOR SHALL CONDUCT HYDRANT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS. HYDRANT FLOW TEST SHALL BE CONDUCTED ON TWO HYDRANTS ON THE SITE WATER MAIN SERVING THE BUILDING FLOWING A MINIMUM OF 500 GPM.
- ALTER PIPING AS REQUIRED TO SUIT NEW AND EXISTING CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING
- WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS AND 1-1/2" FOR FIVE HEADS.
- EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
- INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT DAMAGED.
- WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED. THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.
- PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
- ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2013) SECTION 11.3.
- THE CONTRACTOR SHALL MAKE A PROVISION FOR (10) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.

#### **EQUIPMENT NOTES**

- TAMPER SWITCHES: SHALL BE AS MANUFACTURED BY POTTER ELECTRIC SIGNAL CO. FOR EACH POSSIBLE SHUT-OFF VALVE TYPE:
  - MODEL OSYSU-2 FOR OS&Y VALVES.
- MODEL PCVS-2 FOR BUTTERFLY VALVES.
- MODEL RBVS FOR BALL VALVES.
- SPRINKLER PIPING MATERIAL: SHALL BE STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-53. SCHEDULE 10 PIPING IS NOT PERMITTED FOR PIPING LESS THAN 2".
- FLOOR CONTROL VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC FIRELOCK COMMERCIAL ZONE RISER MODULE SERIES 747M WITH DRAIN CONNECTION AND SIGHT GLASS. PROVIDE 4" VICTAULIC FIRELOCK BUTTERFLY VALVE AND CHECK VALVE OR EQUAL BEFORE RISER MODULE.
- WATERFLOW ALARM SWITCH: SHALL BE BASED ON POTTER ELECTRIC SIGNAL CO. VSR SERIES. PROVIDE WATERFLOW ALARM SWITCHES WHERE INDICATED ON THE DRAWINGS.
- FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON CROKER 6030 OR EQUAL AT BUILDING FACADE. SIAMESE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES ABOVE THE SIDEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" INTERNALLY THREADED SWIVEL FITTINGS WITH THREADS CONFORMING TO AHJ STANDARDS WITH 4" OUTLET. PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE.
- FREE STANDING FIRE DEPARTMENT CONNECTION: SHALL BE SIMILAR TO CROKER FIRE DEPT INLET CONNECTION. FREESTANDING, EXPOSED TYPE, CORROSION-RESISTANT BODY SUITABLE FOR THE OUTDOORS. THREADS SHALL BE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS. CAST BRASS BOTTOM OUTLET BODY WITH DOUBLE CLAPPERS, OUTLET AND INLET SIZES AS SELECTED BY FIGURE NO. 6510, 18" HIGH SEAMLESS TUBING, BRASS BRANDED PLATE, CAST BRASS PLUGS AND CHAINS.
- SPRINKLERS: REFER TO DRAWING FP701 FOR SPRINKLER HEAD SCHEDULE.

#### DESIGN CRITERIA

HAZARD CLASSIFICATION <sup>(1)</sup>	DENSITY <sup>(2)</sup>	PROTECTION AREA PER SPRINKLER <sup>(3)</sup>	
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX	
ORDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX	
ORDINARY HAZARD GROUP 2	0.2 GPM / 1500 SQ. FT.	130 SQ. FT. MAX	
EXTRA HAZARD GROUP 1	0.3 GPM / 2500 SQ. FT.	100 SQ. FT. MAX	
EXTRA HAZARD GROUP 2	0.4 GPM / 2500 SQ. FT.	100 SQ. FT. MAX	

1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 - 2013 RECOMMENDATIONS UNLESS OTHERWISE NOTED.

ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2013).

2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.

3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI. 4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN

ACCORDANCE WITH NFPA 13 - 2013. 5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN

6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE RISER OR SPRINKLER CONTROL VALVE (F.C.A).

FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

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1	12/18/2019	Schematic Design	
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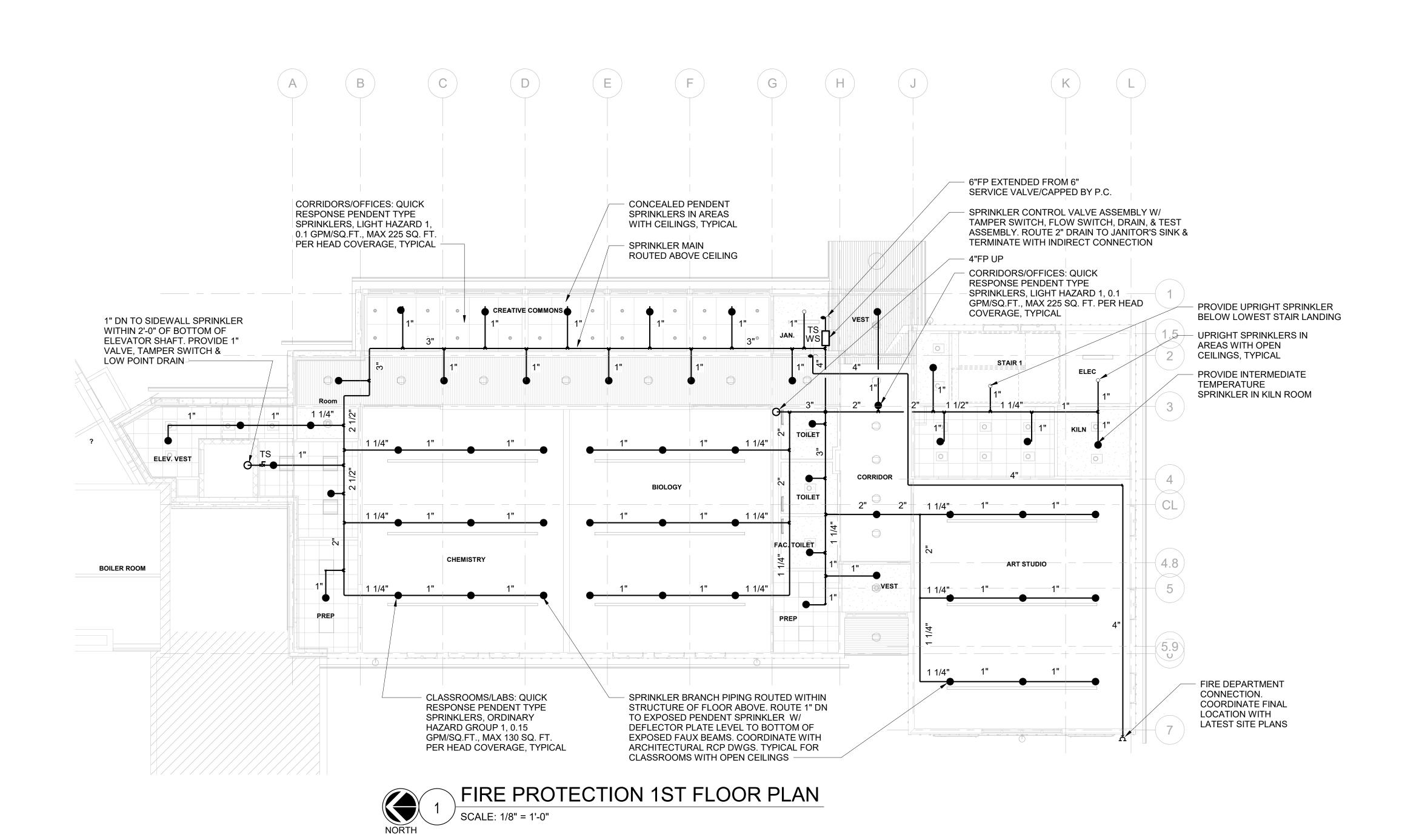
FIRE PROTECTION SYMBOLS, **ABBREVIATIONS &** NOTES

NKGD0214.00 Scale

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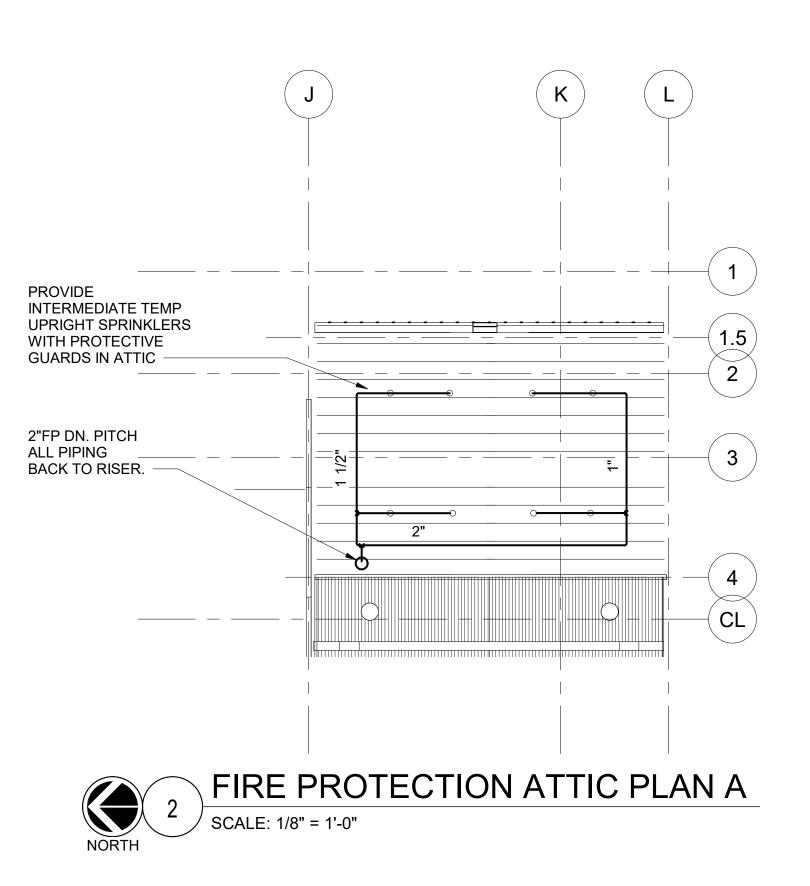
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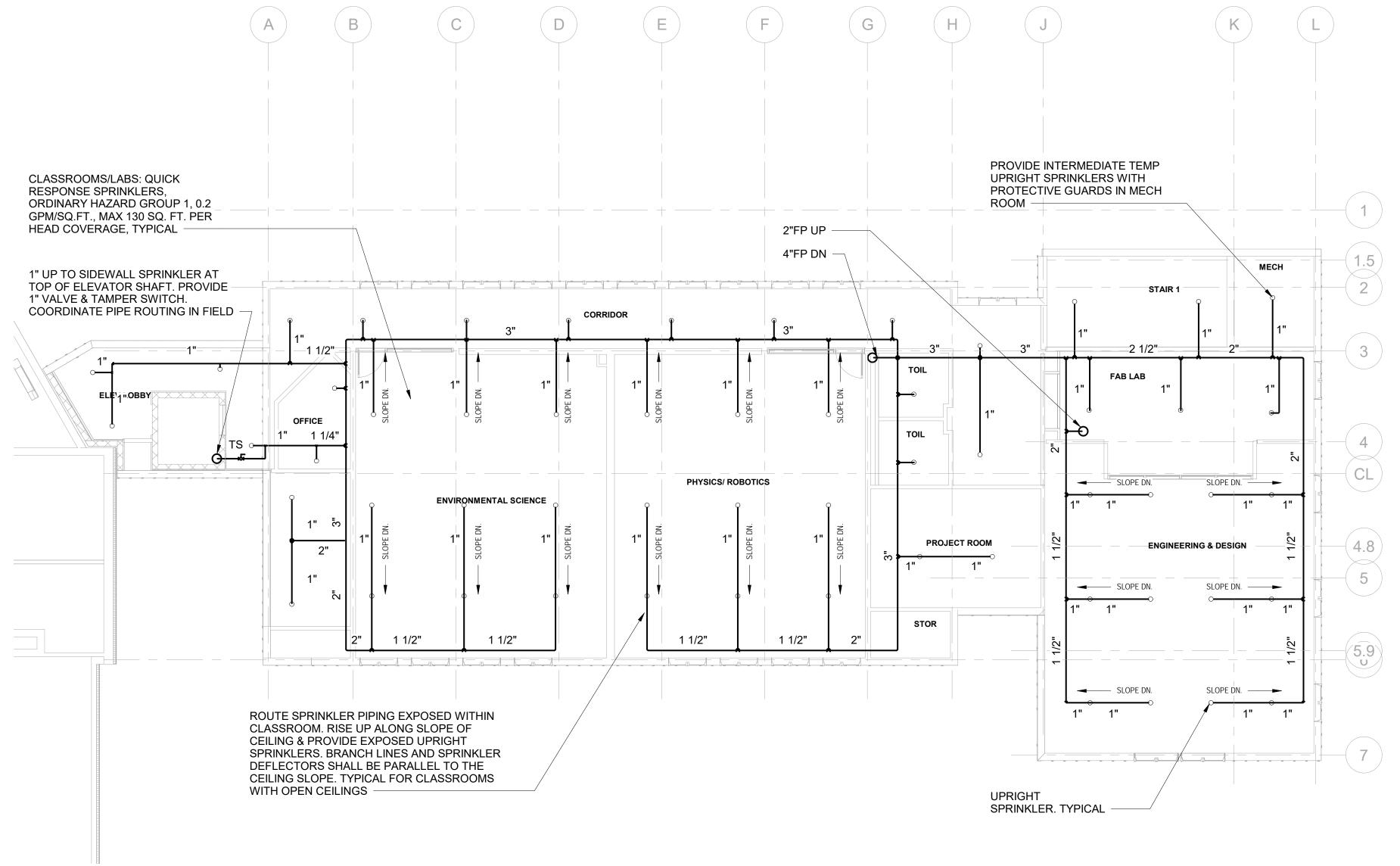
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FIRE PROTECTION 1ST FLOOR PLAN

Job No. 02/24/2021 NKGD0214.00 Scale Drawn / Checked AS NOTED Author Checker

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FIRE PROTECTION 2ND FLOOR PLAN BASE BID

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

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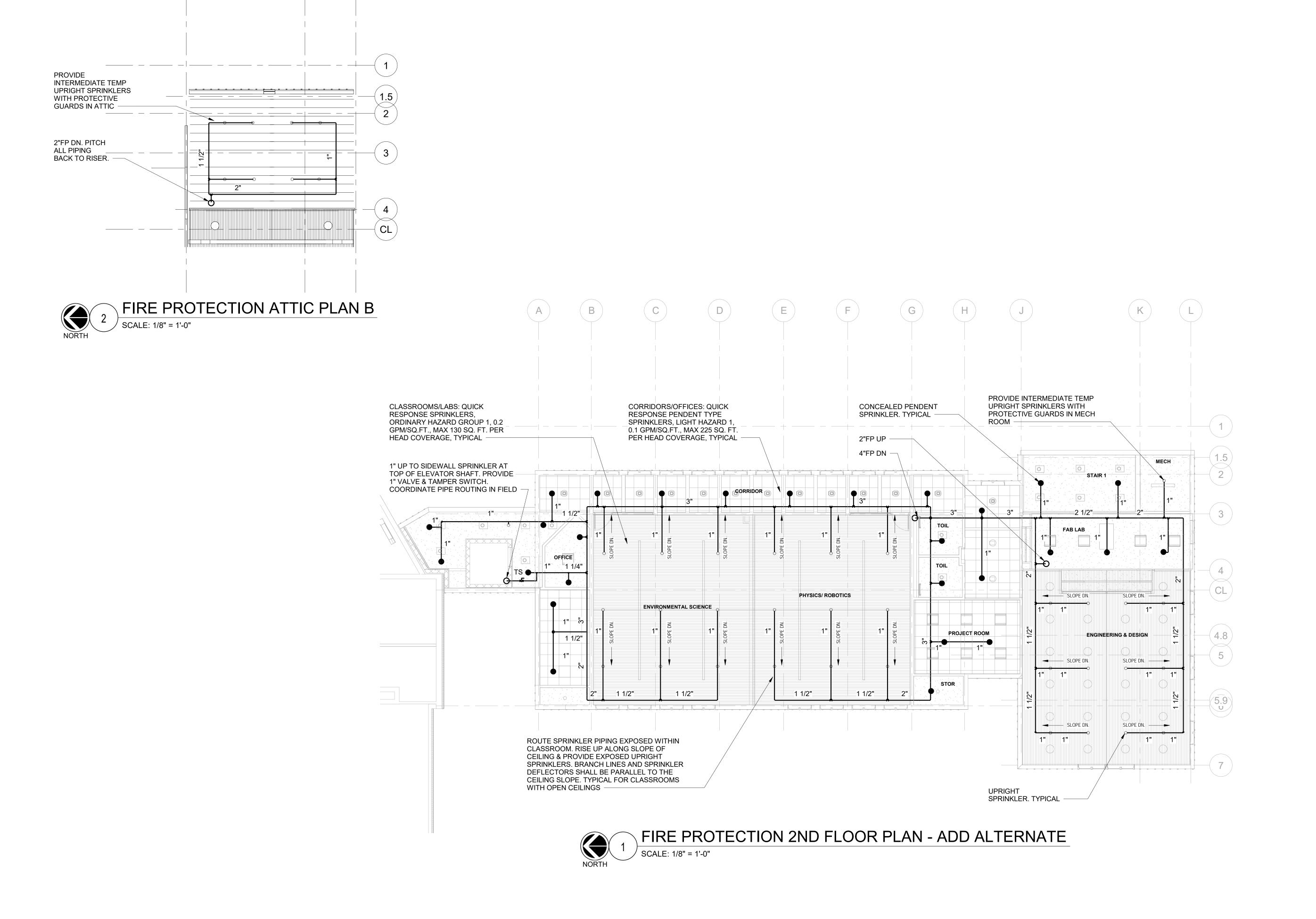
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FIRE PROTECTION 2ND FLOOR & ATTIC PLANS - BASE BID

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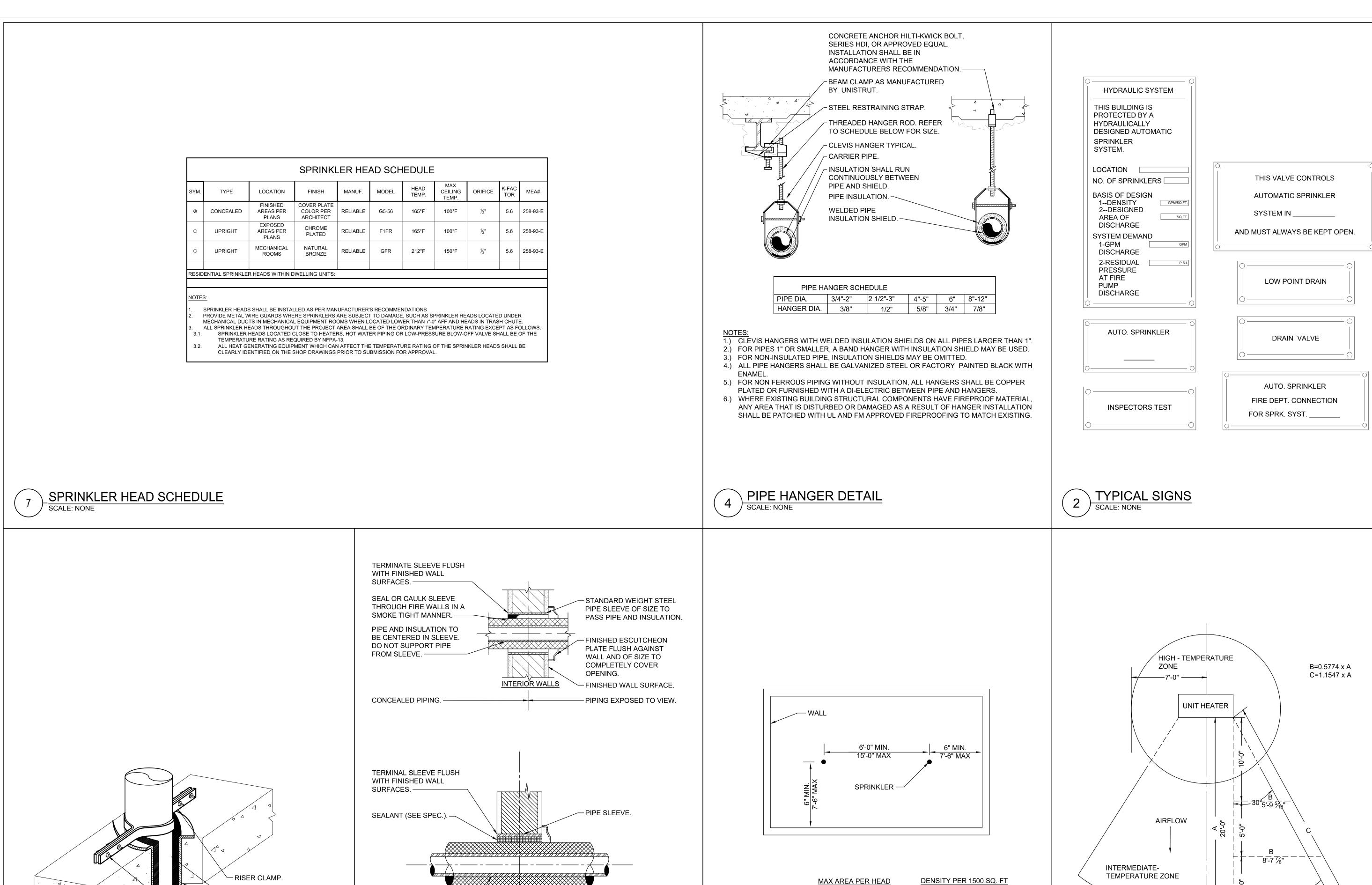
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Sheet Title

FIRE PROTECTION 2ND FLOOR & ATTIC PLANS - ADD ALTERNATE

02/24/2021 NKGD0214.00 Scale Drawn / Checked AS NOTED TV / RG



LIGHT HAZARD

**ESCUTCHEON PLATE FLUSH** 

AGAINST WALL AND OF SIZE

TO COMPLETELY COVER

OPENING (TYPICAL BOTH

FINISHED WALL SURFACE.

SIDES OF WALL).

ORDINARY HAZARD

- PIPE SLEEVE.

-FLOOR SLAB.

- UL LISTED/FM

-RISER PIPE.

PIPE PENETRATION DETAIL

APPROVED FIRE

SLOTTED HEX NUT.

STOPPING ASSEMBLY.

- SQUARE HEAD BOLT WITH

PIPE AND INSULATION TO

BE CENTERED IN SLEEVE

- DO NOT SUPPORT PIPE

PIPE WALL SLEEVE DETAIL

FROM SLEEVE.

225 SQ. FT.

130 SQ. FT.

SPRINKLER HEAD SPACING CRITERIA

0.10 GPM/SQ. FT.

0.16 GPM/SQ. FT.

08/12/2021 Issued for Construction 06/25/2021 Issued for Permit 02/24/2021 Issued for Bid 4 02/10/2021 Issued for Review 5/14/2020 90% Construction Documents 2/21/2020 Design Development Schematic Design 1 | 12/18/2019 Date Issue Sheet Title FIRE PROTECTION

11'-6 11/16"

SPRINKLER TEMPERATURE ZONES

AT UNIT HEATERS

SCALE: NONE

KEY PLAN

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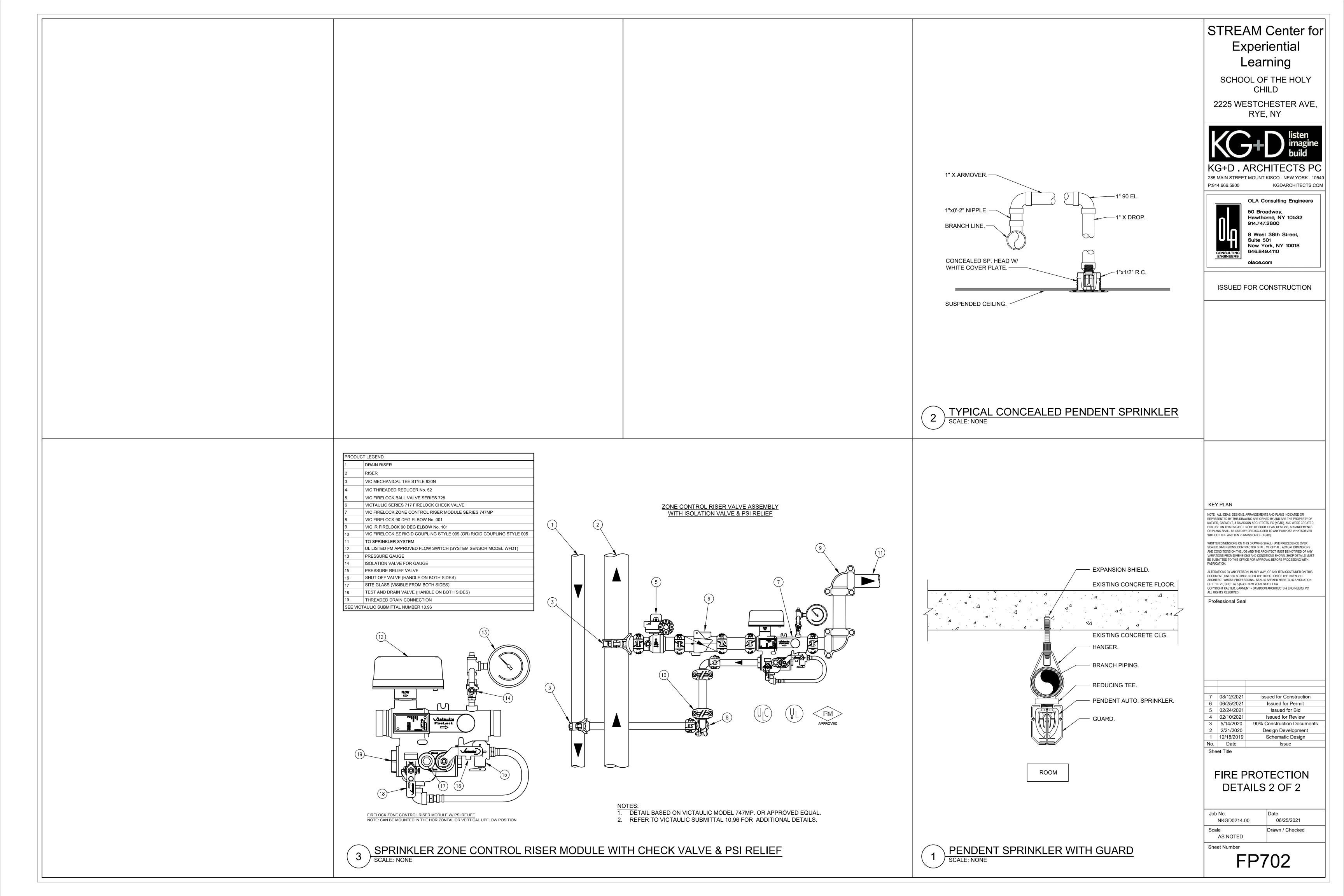
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SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	Experiential
	-	CONDUIT AND WIRING		А	AMPERE(S)	Learning
	-	CONDUIT & WIRING TO BE REMOVED UON		ANN	ANNUNCIATOR PANEL	
——UG——	-	BURIED CONDUIT		BLDG	BUILDING	SCHOOL OF THE HOLY CHILD
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P		С	CONDUIT	2225 WESTCHESTER AVE,
$\leftarrow$	-	MULTI-POLE HOMERUN		CKT	CIRCUIT	RYE, NY
	-	ELECTRICAL EQUIPMENT AS INDICATED		CLG	CEILING	liston
	-	ELECTRIC METER		COL	COLUMN	listen imagine
J	-	JUNCTION BOX		DWG	DRAWING	build
	-	FUSED DISCONNECT SWITCH		ELEV	ELEVATOR	KG+D . ARCHITECTS PC
$\hat{}$	СВ	CIRCUIT BREAKER		FACP	FIRE ALARM CONTROL PANEL	285 MAIN STREET MOUNT KISCO . NEW YORK . 1054 P:914.666.5900 KGDARCHITECTS.COM
DRC	DRC	DEDICATED RADIO CONSOLE		PS	POWER SUPPLY	OLA Consulting Engineers
RAU	RAU	RADIO AMPLIFICATION UNIT		SW	SWITCH(ES)	50 Broadway, Hawthorne, NY 10532
	-	DIRECTIONAL COUPLER		TYP	TYPICAL	914.747.2800
	-	2 PORT EQUAL POWER DIVIDER		UON	UNLESS OTHERWISE NOTED	8 West 38th Street, Suite 501 New York, NY 10018
	-	3 PORT EQUAL POWER DIVIDER				CONSULTING 646.849.4110
$\boxtimes$	-	TERMINATION LOAD	NOTES:	1		olace.com
	-	UHF DIPOLE ANTENNA	1 '		Y NOT BE APPLICABLE FOR THIS PROJECT. LIGHT FIXTURE SYMBOLS.	ISSUED FOR CONSTRUCTION
	-	TOWERLINQ SIGNALING LINE CIRCUIT (SLC) UP				- ICCCED I CIT CONCINCOTION
	-	TOWERLINQ SIGNALING LINE CIRCUIT (SLC) DOWN				



KEY PLAN

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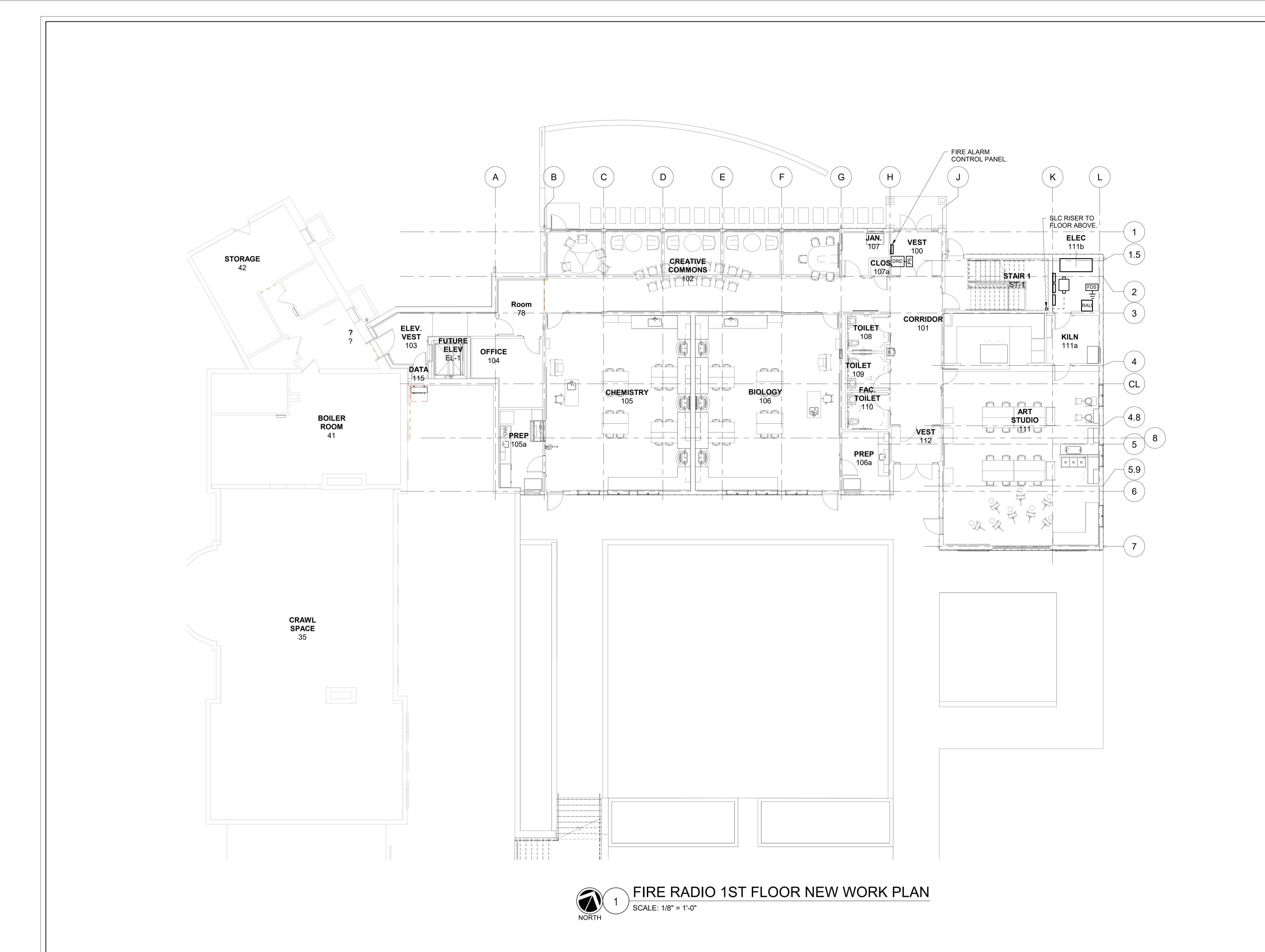
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FIRE RADIO SYMBOLS, ABBREVIATIONS AND **GENERAL NOTES** 

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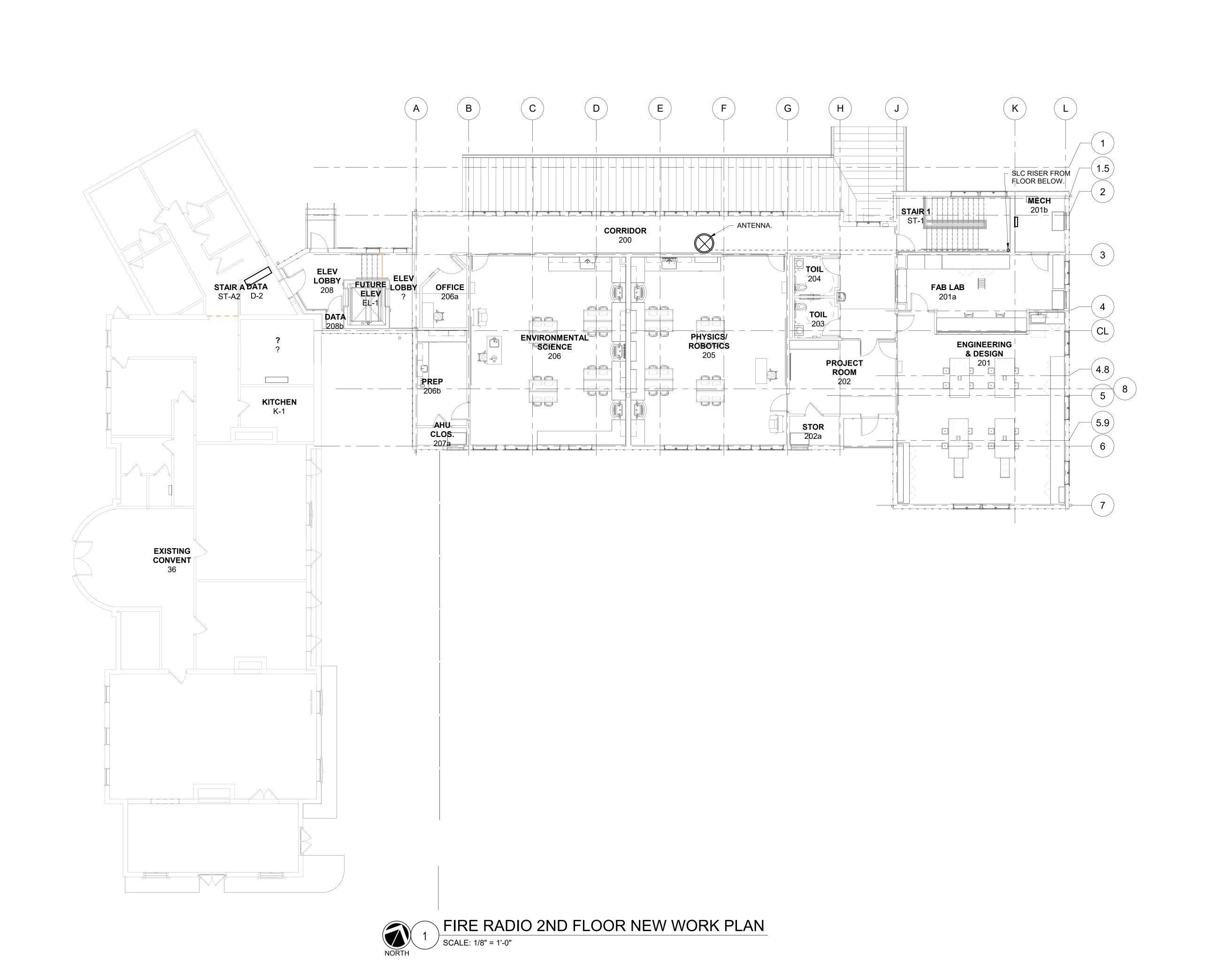
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FIRE RADIO 1ST **FLOOR PLAN** 

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FR301



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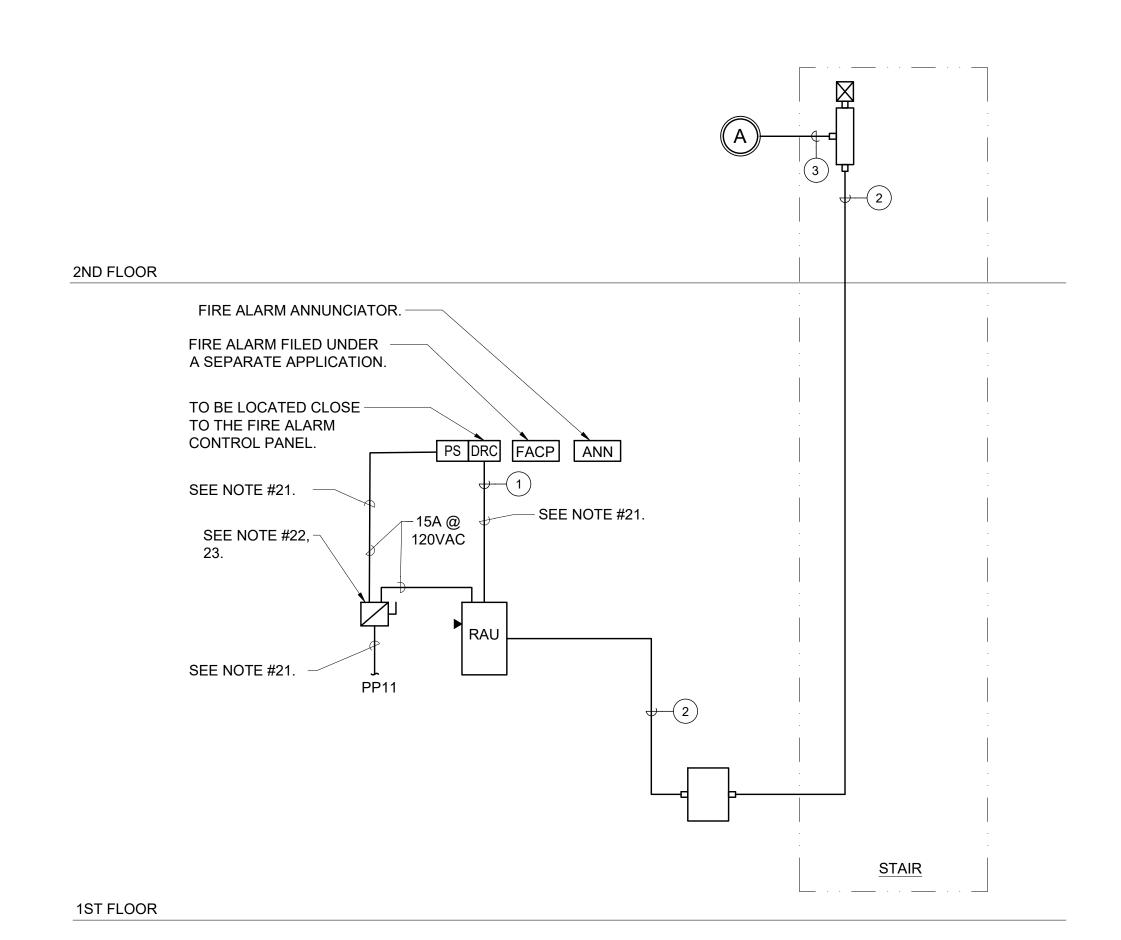
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## FIRE RADIO 2ND FLOOR PLAN

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FR302



# FIRE RADIO COMMUNICATIONS (ERRCS) ONE-LINE DIAGRAM

#### WIRING/CONDUIT LEGEND:

- (1) CONTROL CABLING: 25 PAIR CAT-5e.
- (2) TOWERLING SIGNALING LINE CIRCUIT (SLC) IN 1"C.
- 3 TOWERLING SIGNALING LINE CIRCUIT (SLC).

#### NOTES:

- 1. RISER CABLING: PRIMARY DISTRIBUTION CABLE FOR R/F POWER IS NOT EXCLUSIVELY INSTALLED
- BRANCH CABLING: LAST LEG DISTRIBUTION CABLE FOR R/F POWER. TYPICALLY INSTALLED ON A SINGLE FLOOR AND FEEDS ANTENNAS.
- ALL BRANCH CABLING MUST BE ENCASED IN THE CONCRETE DECK OR OTHERWISE PROVIDED WITH TWO HOURS SURVIVABILITY.
- 4. CONTROL CABLING: 25 PAIR CAT-5E. ALL CONTROL CABLING IS TO BE INSTALLED INSIDE A TWO-HOUR RATED SHAFT WAY.
- DEDICATED RADIO CONSOLE (DRC) BY TOWERIQ MODEL TAC-H514 OR CURRENT MODEL. MUST BE LOCATED IN IMMEDIATE PROXIMITY OF FIRE ALARM PANEL OR FIRE ALARM ANNUNCIATOR.
- 6. ALL RISER CABLING IS 1/2" AIR DIELECTRIC CABLE, RED, PRINTED "FIRE DEPARTMENT COMMUNICATIONS USE" TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
- 7. INSTALLING CONTRACTOR TO DETERMINE FINAL DBM VALUES OF RF COMPONENTS.
- WHERE RISER AND/OR BRANCH CABLING IS EXPOSED TO GENERAL PUBLIC, MUST BE MECHANICALLY PROTECTED AGAINST ACCIDENTAL AND INTENTIONAL DAMAGE.
- ALL BRANCH CABLING IS 1/2" AIR DIELECTRIC CABLE WITH PLENUM RATING TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
- 10. RADIO AMPLIFICATION UNIT (RAU) BY TOWERIQ MODEL TAC-R414 OR CURRENT MODEL. RAU MUST BE LOCATED IN TWO HOUR RATED ROOM.
- 10. ALL COAXIAL CONNECTORS ARE TO BE N-TYPE CONNECTORS.
- 11. WHERE ANY ELECTRICAL AND R/F CONNECTION IS MADE, PHYSICAL ACCESS MUST BE AVAILABLE.
- 12. RAU REQUIRES A L5 30R ELECTRICAL CONNECTION TO LIFE SAFETY SOURCE. PROVIDE WITH A LOCKABLE FUSE DISCONNECT.
- 13. ALL INSTALLED CABLING AND COMPONENTS, WHERE PHYSICALLY ACCESSIBLE ARE TO BE LABELED "EMERGENCY RESPONDER COMMUNICATIONS USE," AT A MINIMUM INTERVAL OF 6'.
- 14. RAU MIST BE PROVIDED WITH INTERNET CONNECTIVITY VIA RJ-45 RECEPTACLE.
- 15. FDS CONNECTION TO DRC IS REQUIRED IF CABLE LENGTH EXCEEDS 2000 FEET.
- 16. LOCALIZED POWER CONNECTION TO THE DRC IS NOT REQUIRED WHEN THE CONTROL CABLE LENGTH IS LESS THAN 300 FEET. -EXCEPTION: WHEN BUILDING REQUIRES MULTIPLE DRCS, LOCALIZED POWER CONNECTIONS ARE REQUIRED FOR FOR EACH UNIT.
- 17. WHEN ENCASED IN THE DECK ALL CABLES MUST BE INSTALLED IN PROPERLY SIZED CONDUIT WITH CONSIDERATIONS FOR PULL BOXES, TURN CONNECTORS AND OTHER IN-LINE DEVISES.
- 18. PROVIDE FUSE QUANTITIES AND SIZES AS REQUIRED FOR SYSTEM.
- 19. PROVIDE WIRING AND CONDUIT AS REQUIRED.
- 20. NEW YORK STATE APPROVED CABINET WITH LOCAL FD KEY AND LOCKABLE DOOR. (FCO).
- 21. 4-#4 & 1-#8 GND IN 1-1/4"C FROM PANELBOARD PP11. QUANTITY OF PHASE CONDUCTORS SHOWN FOR INFORMATION ONLY. PROVIDE NUMBER OF PHASE CONDUCTORS AS REQUIRED.
- 22. 60AS/60AF. SIZE OF FUSES SHOWN FOR INFORMATION ONLY. SIZE FUSES AND PROVIDE NUMBER OF FUSES AS REQUIRED.
- 23. ERRCS DISCONNECT SWITCH.

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Sheet Title FIRE RADIO COMMUNICATIONS (ERRCS) ONE-LINE DIAGRAM

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