### **GENERAL NOTES**

1. ALL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 13 2013 AND THE NORTH CAROLINA STATE BUILDING CODE, THE GENERAL CONDITIONS OF THE CONTRACT APPLY.

2. THE FP CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE WORKING SYSTEM WHICH MEETS ALL REQUIRMENTS OF THE STATE BUILDING CODE, NFPA 13, AND LOCAL AUTHORITY.

3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURE'S RECOMMENDATIONS.

4. ALL UNDERGROUND BY OTHERS.

5. ALL PIPE 2" AND LARGER SHALL BE BLACK STEEL SCH.10 WITH GROOVED ENDS JOINED BY GROOVE FITTINGS. PIPE THAT IS TO BE THREADED SHALL BE SCH. 40 ONLY

6. ALL PIPE 1 1/2" AND SMALLER SHALL BE BLACK STEEL SCH.40 WITH GROOVED ENDS JOINED BY GROOVE FITTINGS OR THREADED FITTINGS.

7. ALL FIREWALL PIPE PENETRATIONS SHALL BE PROTECTED AND SEALED WITH APPROVED FIRE-STOP MATERIAL.

8. LOCATIONS OF EQUIPMENT, HEADS AND PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS AS NECESSARY IN THE FIELD.

9. HEAD GUARD SHALL BE INSTALLED ON SPRINKLER HEADS AS NECESSARY.

10. LOW POINT DRAINS TO BE ROUTED TO EXTERIOR, MOP SINK, OR FLOOR DRAIN IN MECHANICAL ROOM.

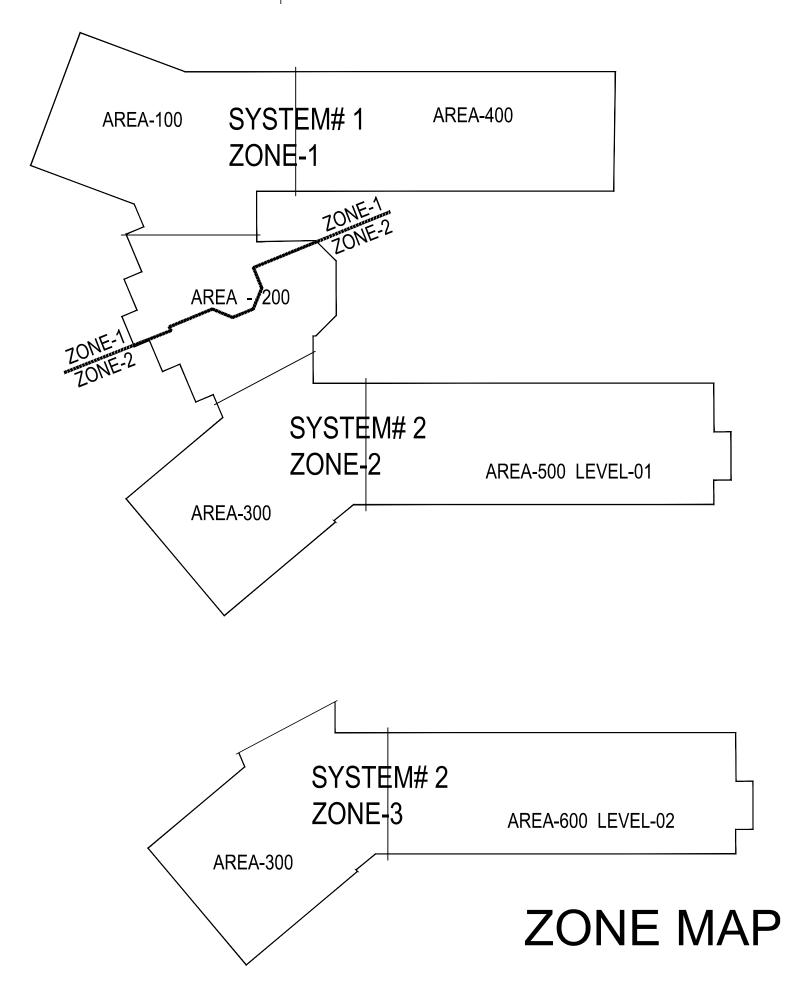
11. UPRIGHT HEADS WITH CAGE GUARDS SHALL BE USED IN MECHANICAL SPACES OR ROOMS WITHOUT CEILINGS.

## HANGER INSTALLATION REQUIREMENTS

STEEL PIPE (10/ 40)	1⁄2"-3⁄4"	1"	1¼"	1½"	2"	21⁄2"	3"		
MAXIMUM DISTANCE	10'0"	12'0"	12'0"	15'0"	15'0"	15'0"	15'0"		
UNSUPPORT ARM OVER MAXIMUM 12"									

ALL RODS SHALL SHOW THROUGH THE BOTTOM OF THE HANGER BUTTON. ALL BEAM CLAMP SAFETY NUTS SHALL BE TIGHTENED AFTER INSTALLATION. ALL THREAED ROD IS NOT TO BE BENT OR FORMED.

SHEET INDEX - FIRE PROTECTIONSheet NumberSheet NameFP01FIRE PROTECTION LEAD SHEET, TITLE & DETAILFP02PUMP ROOM DETAILFP03HYDRAULIC SITE PLAN	N
FP01FIRE PROTECTION LEAD SHEET, TITLE & DETAILFP02PUMP ROOM DETAIL	
FP02 PUMP ROOM DETAIL	
FP03 HYDRAULIC SITE PLAN	
FP04 BUILDING SECTIONS (FOR REFERENCE ONLY)	
FP11 AREA-100 FIRE SPRINKLER OVER HEAD PIPING PL	LAN
FP12 AREA-200 FIRE SPRINKLER OVER HEAD PIPING PL	LAN
FP13 AREA-300 FIRST FLOOR FIRE SPRINKLER OVER H	EAD PIPINO
FP14 AREA-400 FIRE SPRINKLER OVER HEAD PIPING PL	LAN
FP15 AREA-500 FIRE SPRINKLER OVER HEAD PIPING PL	LAN
FP16 AREA-300 SECOND FLOOR FIRE SPRINKLER OVEF	R HEAD PIP
FP17 AREA-600 FIRE SPRINKLER OVER HEAD PIPING PL	LAN
FP21 AREA-100 FIRE SPRINKLER REFLECTED CEILING F	PLAN
FP22 AREA-200 FIRE SPRINKLER REFLECTED CEILING F	PLAN
FP23 AREA-300 FIRST FLOOR FIRE SPRINKLER REFLEC	TED CEILIN
FP24 AREA-400 FIRE SPRINKLER REFLECTED CEILING F	PLAN
FP25 AREA-500 FIRE SPRINKLER REFLECTED CEILING F	PLAN
FP26 AREA-300 SECOND FLOOR FIRE SPRINKLER REFL	ECTED CEI
FP27 AREA-600 FIRE SPRINKLER REFLECTED CEILING F	PLAN



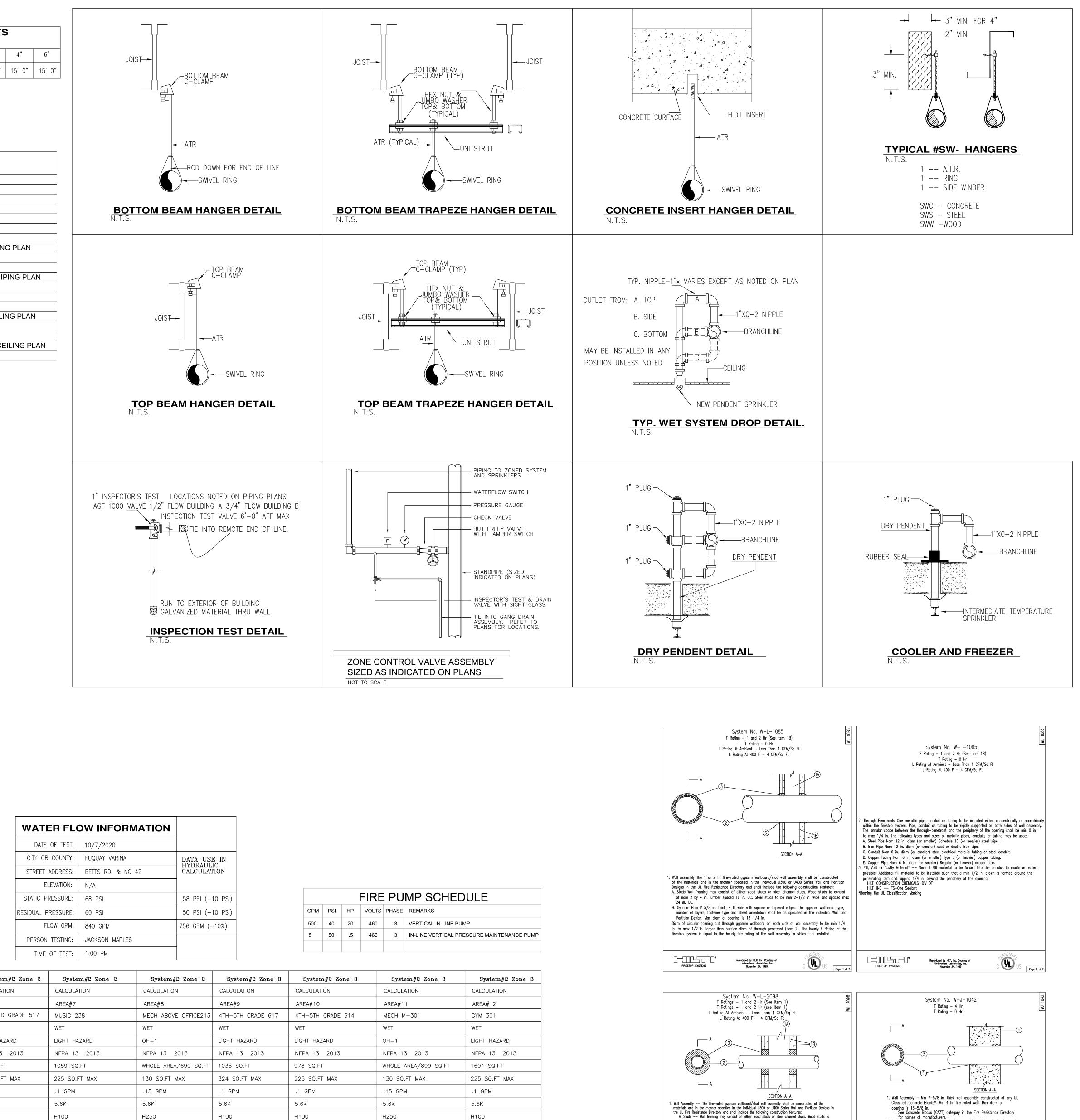
# **Sprinkler Design Data**

Project Name: NORTHWEST HARNETT ELEMEN	TARY SCHOOL	System: 2 WET SYSTEM
Project Street Address: 736 ROLLINS ROAD,	FUQUAY VARINA, NC 27526	Sys. Sq. Ft.: 118.323
Suite:	Floor#: 2	Ceiling Height: VARIES
Designed By: CHRISTY LAMSON	Phone: (919) 868-4050	Total Bldg. Hgt.: 46'-3"
Occupancy: EDUCATIONAL	Hazard: LIGHT HAZARD	

	System#1 Zone-1	System#1 Zone-1
Design Method	CALCULATION	CALCULATION
Design Area #	AREA#1	AREA#2
Location	1ST GRADE 419	KITCHEN 108
Type of System	WET	WET

Design Summary

	System#1 Zone-1	System#1 Zone-1	System#1 Zone-1	System#1 Zone-1	System#1 Zone-1	System#2 Zone-2	System#2 Zone-2	System#2 Zone-2	System#2 Zone-3	System#2 Zone-3	System#2 Zone-3	System#2 Zon
Design Method	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION	CALCULATION
Design Area #	AREA#1	AREA#2	AREA#3	AREA#4	AREA#5	AREA#6	AREA#7	AREA#8	AREA#9	AREA#10	AREA#11	AREA#12
Location	1ST GRADE 419	KITCHEN 108	DINING 101	MECH ABOVE 227	MECH 100	2ND-3RD GRADE 517	MUSIC 238	MECH ABOVE OFFICE213	4TH–5TH GRADE 617	4TH–5TH GRADE 614	MECH M-301	GYM 301
Type of System	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
Hazard Class	LIGHT HAZARD	OH-1	LIGHT HAZARD	OH-1	0H-2	LIGHT HAZARD	LIGHT HAZARD	OH-1	LIGHT HAZARD	LIGHT HAZARD	OH-1	LIGHT HAZARD
Criteria From	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013	NFPA 13 2013
Design Area	1037 SQ.FT	993 SQ.FT	1597 SQ.FT	WHOLE AREA/908 SQ.FT	WHOLE AREA/895 SQ.FT	991 SQ.FT	1059 SQ.FT	WHOLE AREA/690 SQ.FT	1035 SQ.FT	978 SQ.FT	WHOLE AREA/899 SQ.FT	1604 SQ.FT
Sprinkler Spacing	324 SQ.FT MAX	130 SQ.FT MAX	225 SQ.FT MAX	130 SQ.FT MAX	130 SQ.FT MAX	324 SQ.FT MAX	225 SQ.FT MAX	130 SQ.FT MAX	324 SQ.FT MAX	225 SQ.FT MAX	130 SQ.FT MAX	225 SQ.FT MAX
Density	.10 GPM	.15 GPM	.1 GPM	.15 GPM	.2 GPM	.1 GPM	.1 GPM	.15 GPM	.1 GPM	.1 GPM	.15 GPM	.1 GPM
K-factor	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K
Hose Allowance	H150	H250	H100	H250	H250	H100	H100	H250	H100	H100	H250	H100
# Design Sprinklers	8 HEADS	10 HEADS	11 HEADS	11 HEADS	12 HEADS	6 HEADS	9 HEADS	9 HEADS	6 HEADS	6 HEADS	10 HEADS	10 HEADS
pecial Application Spk.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Requirement @	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
G.P.M. Req'd	340.085 GPM	477.155 GPM	283.656 GPM	483.170 GPM	582.363 GPM	297.747 GPM	295.959 GPM	429.199 GPM	258.623 GPM	231.274 GPM	445.991 GPM	307.095 GPM
P.S.I. Req'd	45.721 PSI	37.872 PSI	26.831 PSI	49.229 PSI	39.38 PSI	53.452 PSI	46.173 PSI	45.198 PSI	48.547 PSI	41.517 PSI	44.260 PSI	43.130 PSI
Safety Factor @	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
Safety Factor (PSI)	+10.45 PSI	+16.71 PSI	+29.86 PSI	+5.28 PSI	+13.68 PSI	+3.11 PSI	+10.42 PSI	+10.00 PSI	+8.35 PSI	+15.59 PSI	+10.73 PSI	+13.36 PSI
Data on sheet #	FP14	FP11	FP11	FP12	FP11	FP15	FP13	FP12	FP17	FP17	FP16	FP16
Dry Sys. Volume (gal)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



WATER FL	OW INFORMATION								
DATE OF TEST:	10/7/2020	-							
CITY OR COUNTY:	FUQUAY VARINA	DATA USE IN							
STREET ADDRESS:	BETTS RD. & NC 42	HYDRAULIC CALCULATION							
ELEVATION:	N/A	-							
STATIC PRESSURE:	68 PSI	58 PSI (-10 PSI)					FIRE	E PU	MP SCHEDULE
ESIDUAL PRESSURE:	60 PSI	50 PSI (-10 PSI)	GP	PM	PSI	HP	VOLTS	PHASE	REMARKS
FLOW GPM:	840 GPM	756 GPM (-10%)	50	00	40	20	460	3	VERTICAL IN-LINE PUMP
PERSON TESTING:	JACKSON MAPLES		5		50	.5	460	3	IN-LINE VERTICAL PRESSURE MAINTENANCE F
TIME OF TEST:	1:00 PM	1							

Harnett County School Northwest Harnett Elementary School
736 Rollins Road, Fuquay Varina, NC 27526
Owner or Occupant Harnett County School Dr. Aaron Fleming 1008 South 11th Street, Lillington, NC 27546 (919) 573-6350 ARCHITECT SfL+a Architexch 333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350 Job Site Address Northwest Harnett Eelemtary School 736 Rollins Road, Fuquay-Varina, NC 27526
Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372
(910) 521-8013 Authority Having Jurisdiction Harnett County Fire Marshall
Fire Protection Contact ABL Fire Protection, LLC Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050
KEYPLAN
Fire Protection, LLC
ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210
Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS
I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced,
altered or used in any form without consent from ABL Fire         Protection, LLC.         DRAWN BY         CHRISTY LAMSON
DATE         04/19/2022           SCALE         ½" = 1'-0" UNO           SPRINKLERS ON JOBS         *           CONTRACT NO.         4070
DESCRIPTION     REV     DATE     BY       1     SUBMITTAL DRAWING     04/28/22     CL       1     Image: Submitted in the submitted in th
Image: second
SHEET TITLE TITLE & DETAILS

opening is 13-5/8 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. 3. Through Penetrants — One metallic pipe, conduit or tubing to be installed concentrically within the firestop system. Pipe, conduit or tubing to be

rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and the periphery of the opening shall

be min 3/8 in. to 1/2 in. maximum. The following types and sizes of

A. Steel Pipe - Nom 12 in. diam (or smaller) Schedule 10 (or heavier)

6 in. diam steel conduit. C. Copper Tubing - Nom 6 in. diam (or smaller) Type L (or heavier)

4. Fill, Void or Cavity Material\* - Sealant - Min 2 in. thickness applied

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.

copper tubing D. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper

B. Conduit – Nom 4 in. diam (or smaller) steel electrical metallic tubing or

metallic pipes, conduits or tubing may be used:

within annulus, flush with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI, INC. - FS-ONE Sealant \*Bearing the OL Classification Marking

steel pipe.

consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel study to be min 2-1/2 in. wide and spaced max 24 in. OC.
 B. Gypsum Board\* -- 5/8 in. thick, 4 ft wide with square or tappered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the

individual Wall and Partition Design. Max diam of opening is 4-3/8 in. The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in

supported on both sides of floor or wall assembly. The space between pipe and periphery of opening shall be min 3/4 in. to max 1-1/4 in. Pipe to be rigidly supported on both sides of the floor or wall

assembly. The following types and sizes of nonmetallic pipes may be used: A. Polyvinyl Chloride (PVC) Pipe -- Nom 2 in. diam (or smaller) Schedule 40 PVC pipe for use in

closed (process or supply) piping system. B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- Nom 2 in. diam (or smaller) SDR17 CPVC pipe

5. Fill, Void or Cavity Materials\* -- Sealant -- Installed to completely fill the annular space between the pipes and gypsum wallboard on both sides of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF

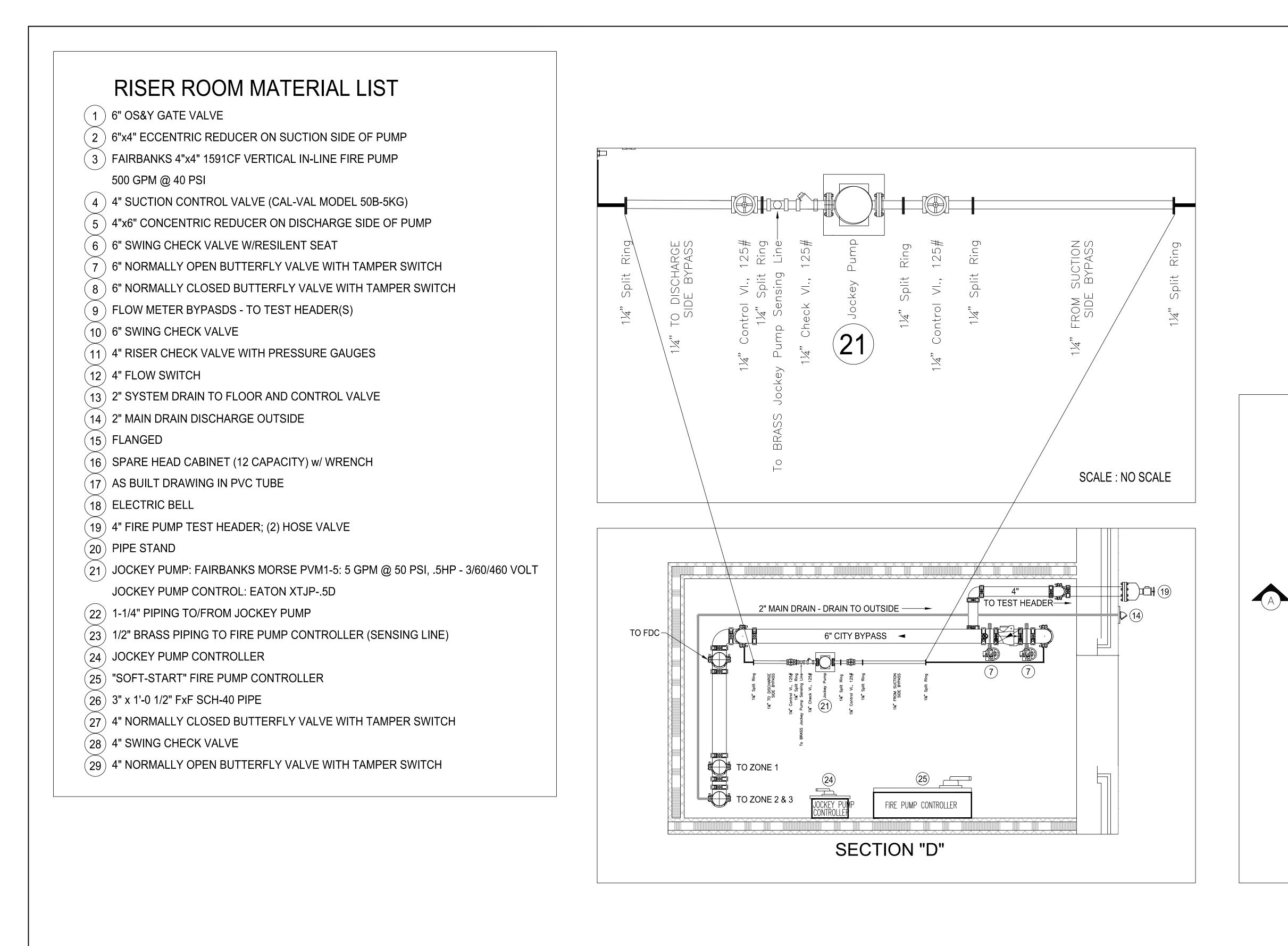
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 09, 2003

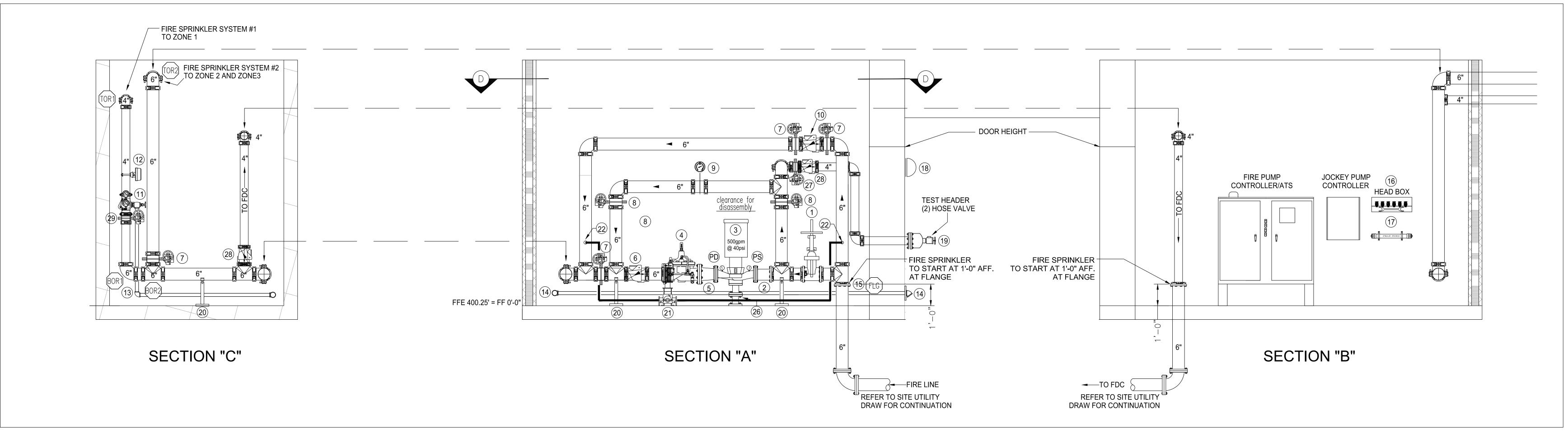
HILTI INC -- FS-One Sealant \*Bearing the UL Classification Mark

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FIRESTOP SYSTEMS

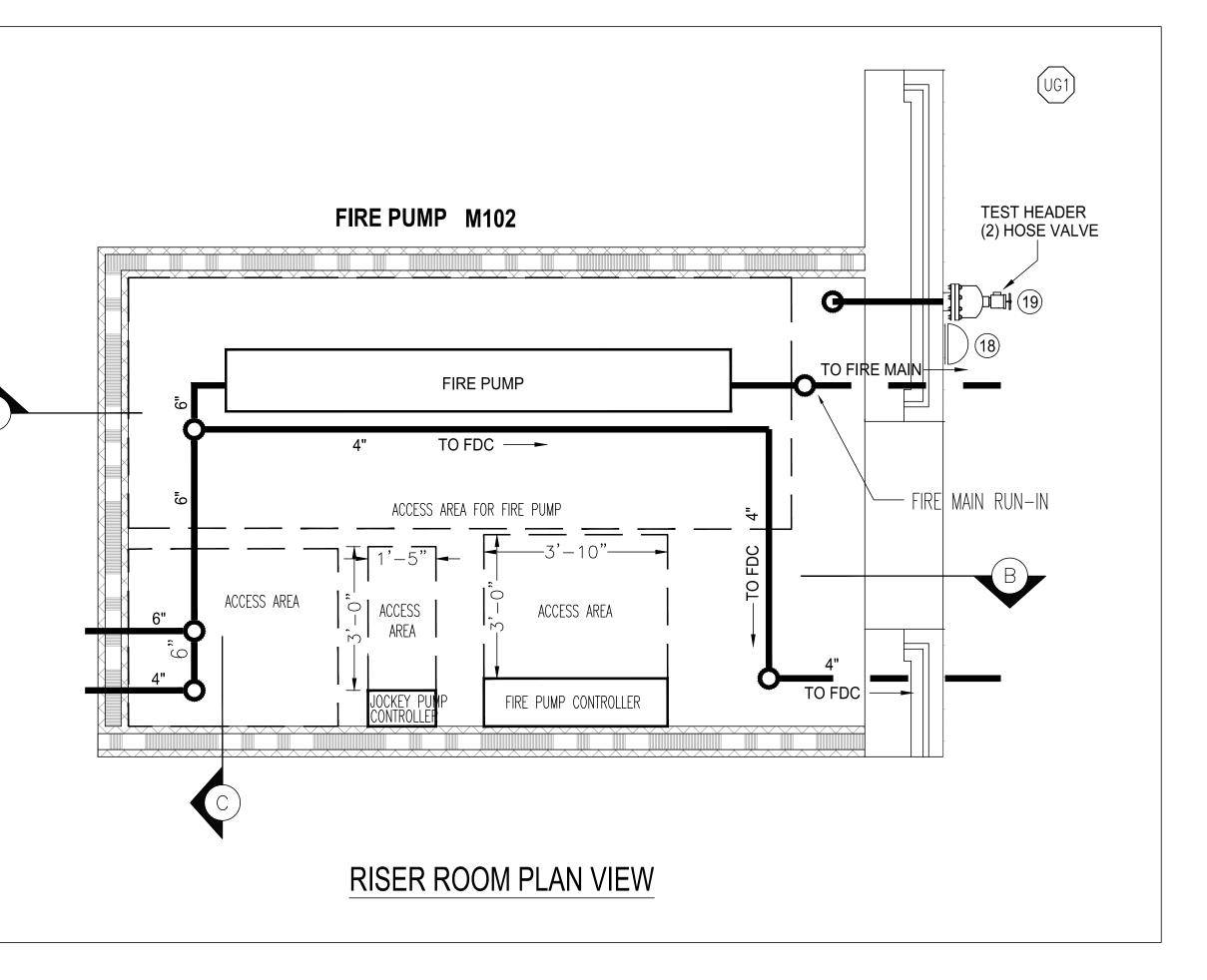
the is installed.
 Through Penetrants — One nonmetallic pipe installed within the firestop system. Pipe to be rigidly



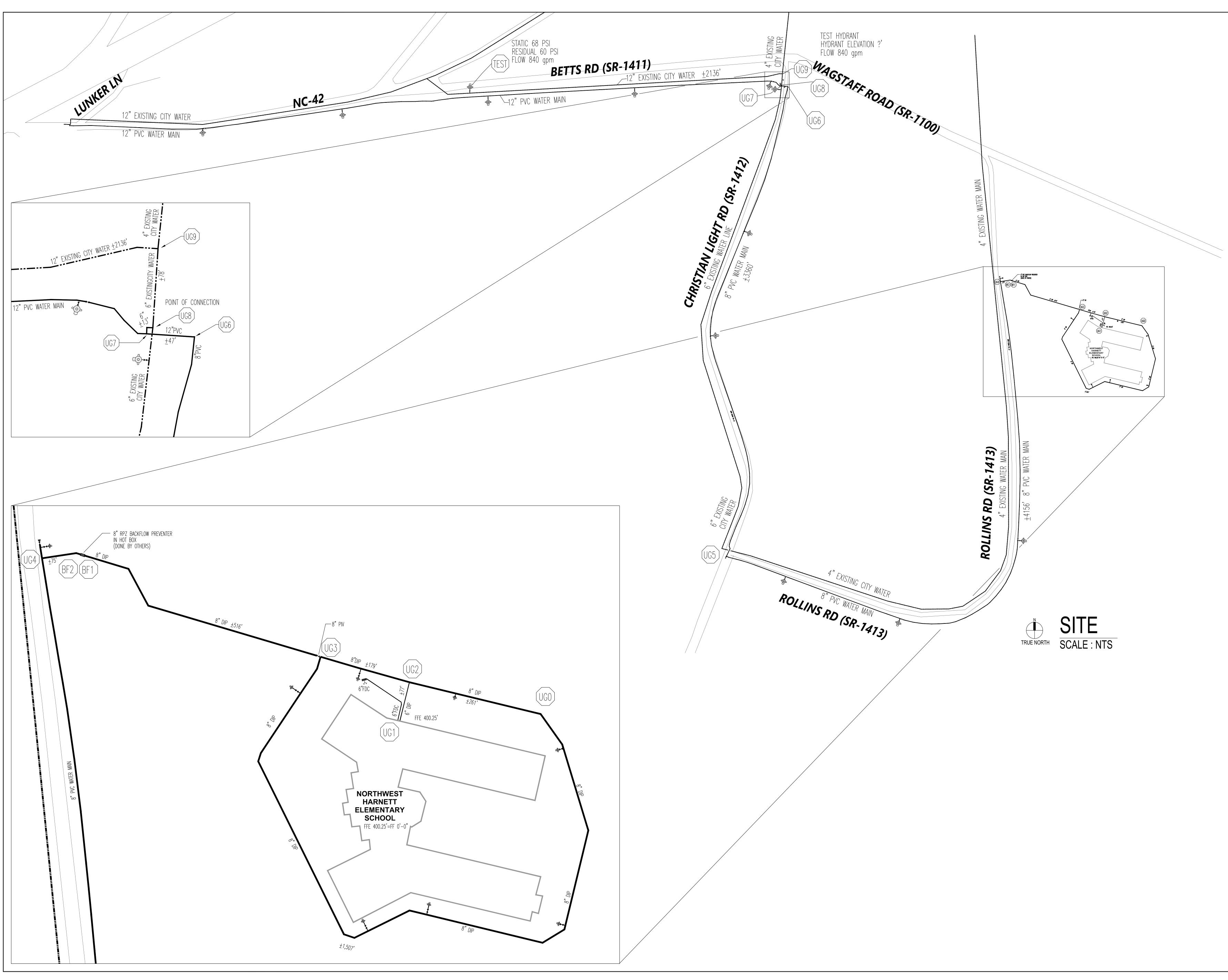


# SCALE 1/2" = 1'-0" UNO

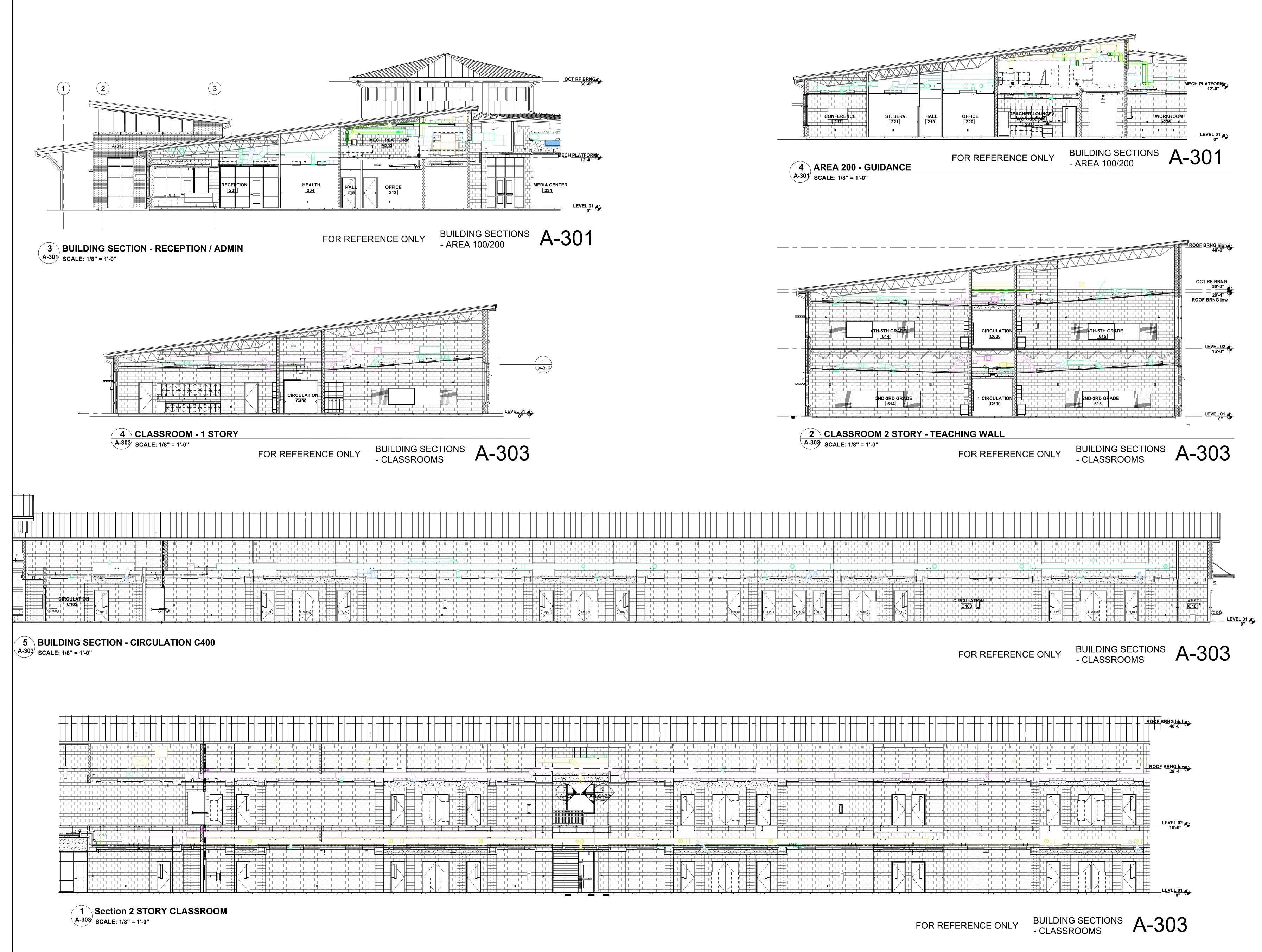
SCALE 1/2"=1'-0"



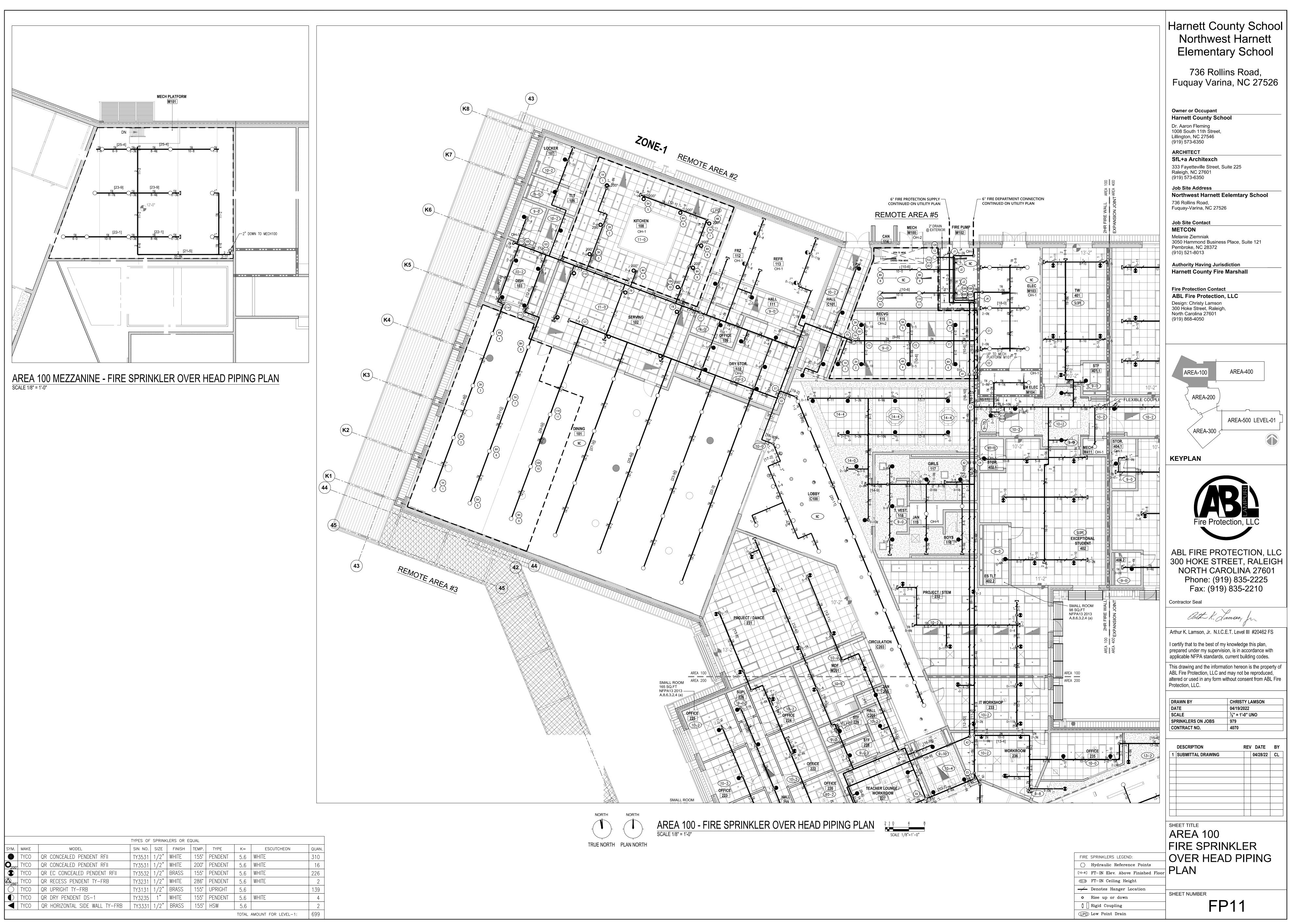
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736 Rollins Road, Fuquay Varina, NC 27526
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ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210
arth K. Jamson, fr.
Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes.
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DRAWN BY         CHRISTY LAMSON           DATE         04/19/2022           SCALE         ½" = 1'-0" UNO           SPRINKLERS ON JOBS         *           CONTRACT NO.         4070
DESCRIPTION     REV     DATE     BY       1     SUBMITTAL DRAWING     04/28/22     CL       1     Image: state
SHEET TITLE RISER ROOM DETAILS
sheet number FP02



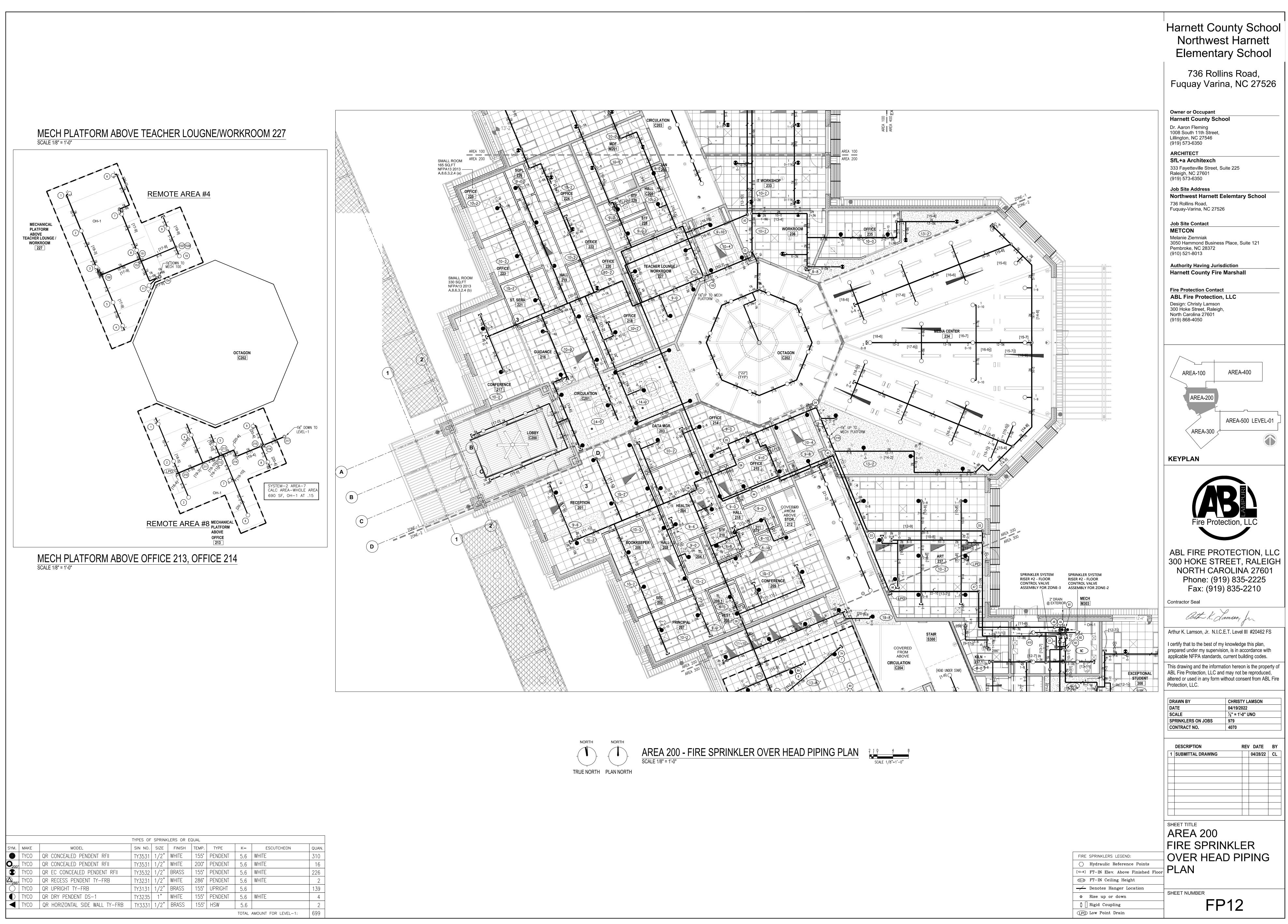
Harnett Cou Northwes Elementa	t Ha	rnett	
736 Rolliı Fuquay Varin		•	26
Owner or Occupant Harnett County Scho Dr. Aaron Fleming 1008 South 11th Street, Lillington, NC 27546 (919) 573-6350 ARCHITECT SfL+a Architexch 333 Fayetteville Street, Su Raleigh, NC 27601 (919) 573-6350			
Job Site Address Northwest Harnett Ee 736 Rollins Road, Fuquay-Varina, NC 27526	elemtary	School	
Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Pembroke, NC 28372 (910) 521-8013	Place, Suit	te 121	
Authority Having Jurisd Harnett County Fire I			
Fire Protection Contact ABL Fire Protection, Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050	LLC		
KEYPLAN			
Fire Prote	Ction, L	LC	
ABL FIRE PRO 300 HOKE STR NORTH CAR Phone: (919 Fax: (919)	EET, 1 OLINA 9) 835-	RALEI 2760 2225	GH
Contractor Seal	O emson f	1	
Arthur K. Lamson, Jr. N.I.C.E	E.T. Level III	#20462 F	S
I certify that to the best of my prepared under my supervision applicable NFPA standards, of This drawing and the informate ABL Fire Protection, LLC and altered or used in any form with	on, is in acco current build ion hereon may not be	ordance wit ing codes. is the prope reproduce	erty of d,
Protection, LLC. DRAWN BY DATE	CHRISTY I 04/19/2022	AMSON	
SCALE SPRINKLERS ON JOBS CONTRACT NO.	1/8" = 1'-0" * 4070		
DESCRIPTION           1         SUBMITTAL DRAWING	RE	V DATE 04/28/22	BY CL
SHEET TITLE			
HYDRAULIO SITE PLAN	C		
SHEET NUMBER			



Harnett County School Northwest Harnett Elementary School
736 Rollins Road, Fuquay Varina, NC 27526
Owner or Occupant Harnett County School Dr. Aaron Fleming 1008 South 11th Street, Lillington, NC 27546 (919) 573-6350 ARCHITECT SfL+a Architexch 333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350 Job Site Address Northwest Harnett Eelemtary School Age Rollins Road, Fuquay-Varina, NC 27526
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arth K. Jamson, fr.
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DRAWN BYCHRISTY LAMSONDATE04/19/2022SCALE1/8" = 1'-0" UNOSPRINKLERS ON JOBS*CONTRACT NO.4070
DESCRIPTION REV DATE BY
SHEET TITLE BUILDING SECTIONS
FP04

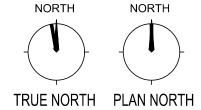


Set int	1,3	
	FIRE SPRINKLERS LEGEND:	
	[10-8] FT-IN Elev. Above Finished F	loo
	• FT-IN Ceiling Height	
	Denotes Hanger Location	
	• Rise up or down	
	0 🛛 Rigid Coupling	
	(LPD) Low Point Drain	





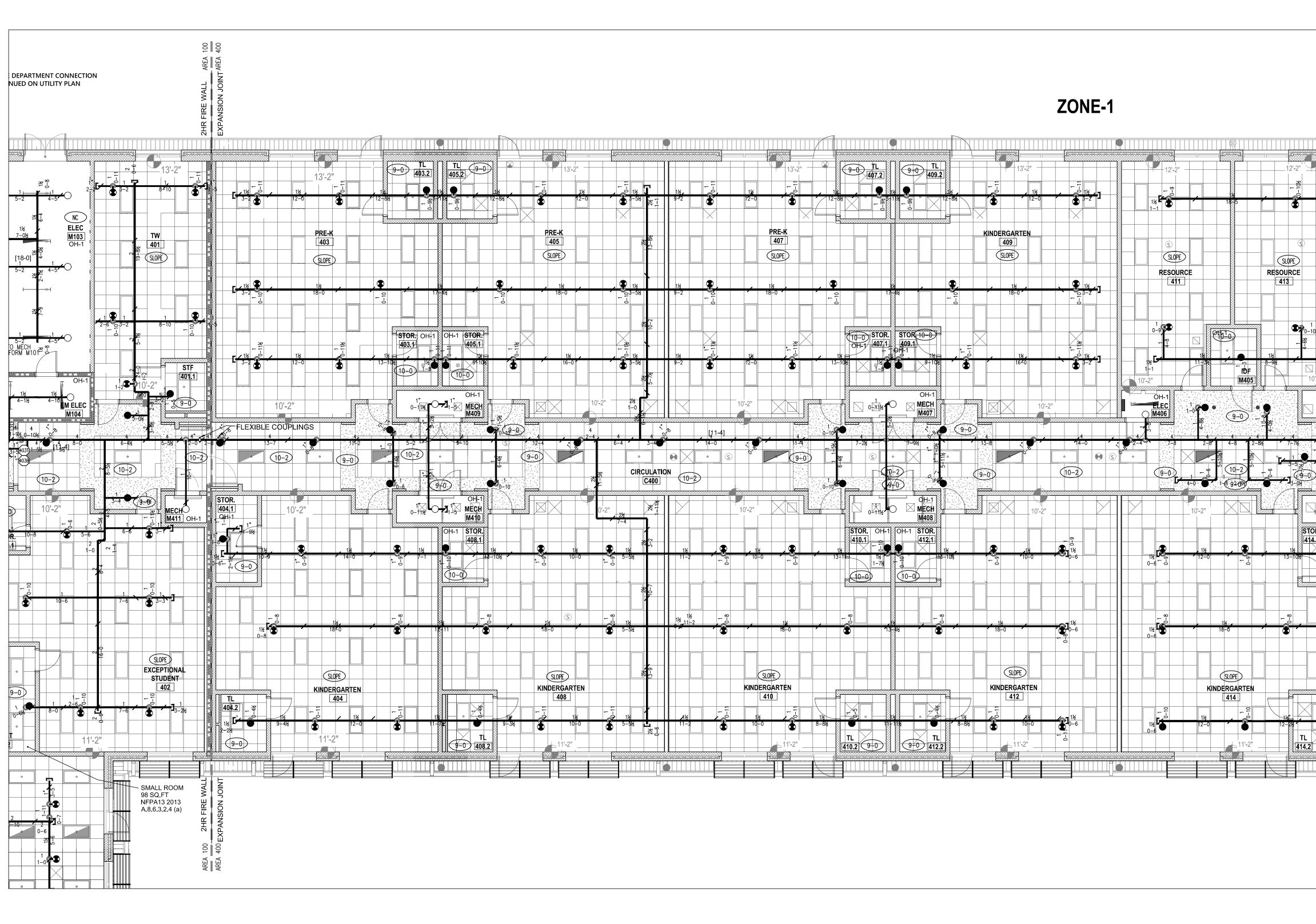
	TYPES OF SPRINKLERS OR EQUAL										
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.	
0	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310	
<b>O</b> <sub>200°</sub>	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16	
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226	
$\bigtriangleup_{286^\circ}$	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2	
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		139	
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	4	
	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		2	
								TOTAL	AMOUNT FOR LEVEL-1:	699	



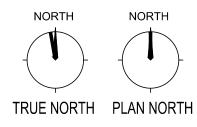
AREA-300 FIRST FLOOR - FIRE SPRINKLER OVER HEAD PIPING PLAN SCALE 1/8" = 1'-0"

	Harnett County School Northwest Harnett Elementary School
	736 Rollins Road, Fuquay Varina, NC 27526
	Owner or Occupant Harnett County School
4TH-5TH GRADE	Dr. Aaron Fleming 1008 South 11th Street, Lillington, NC 27546 (919) 573-6350
	ARCHITECT SfL+a Architexch 333 Fayetteville Street, Suite 225 Raleigh, NC 27601
	(919) 573-6350 Job Site Address Northwest Harnett Eelemtary School 736 Rollins Road,
	Fuquay-Varina, NC 27526 <u>Job Site Contact</u> METCON
	Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013
	Authority Having Jurisdiction Harnett County Fire Marshall Fire Protection Contact
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ABL Fire Protection, LLC Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050
[11-6] (11-6) (11-6] (11-6) (11-6]	AREA-100 AREA-200
	AREA-300 LEVEL-01
	Fire Protection, LLC
	ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210 Contractor Seal
	Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire Protection, LLC.
	DRAWN BY         CHRISTY LAMSON           DATE         04/19/2022           SCALE         ½" = 1'-0" UNO
	SPRINKLERS ON JOBS       979         CONTRACT NO.       4070         DESCRIPTION       REV_DATE
	Description     Rev     Date     By       1     SUBMITTAL DRAWING     04/28/22     CL       -     -     -     -
FIRE SPRINKLERS LEGEND:	AREA 300 FIRST FLOOR FIRE SPRINKLER OVER HEAD PIPING
<ul> <li>[10-8] FT−IN Elev. Above Finished Floor</li> <li>Image: FT−IN Ceiling Height</li> <li>Image: Denotes Hanger Location</li> <li>Image: Rise up or down</li> </ul>	OVER HEAD PIPING PLAN SHEET NUMBER
Image: Complete state       Rigid Coupling         Image: CPD Low Point Drain	FP13

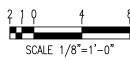
2 1 0 4 8 SCALE 1/8"=1'-0"



	TYPES OF SPRINKLERS OR EQUAL									
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
0	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
<b>O</b> 200°	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226
$\bigtriangleup_{286^{\circ}}$	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		139
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	4
	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		2
								TOTAL	AMOUNT FOR LEVEL-1:	699

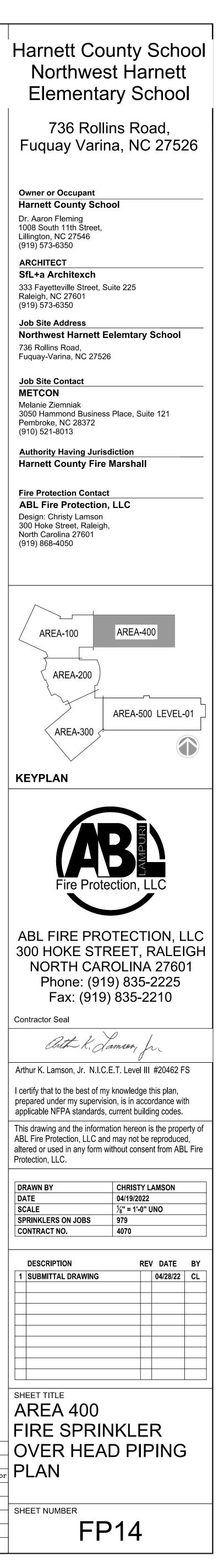


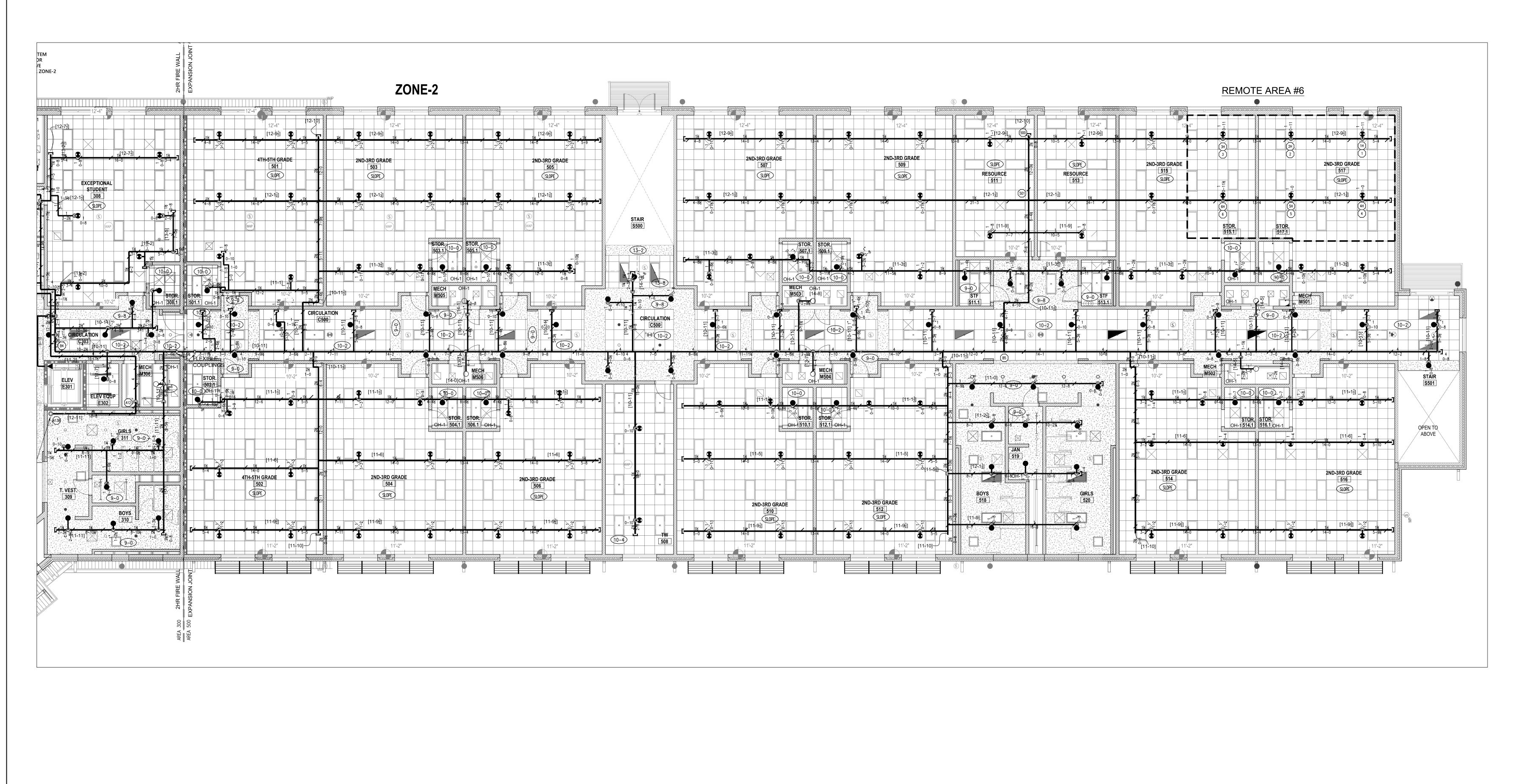




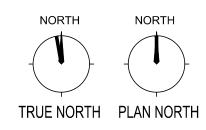
	REMOTE AREA #1
9     11     13-2       12     -     -     -       12     -     -     -       12     -     -     -       12     -     -     -       12     -     -     -       12     -     -     -       13-2     -     -     -       14     -     -     -       15     -     -     -       15     -     -     -       15     -     -     -	
$ \begin{array}{c}                                     $	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$10^{-2''} \\ \hline 38 \\ \hline -2^{-3} \\ \hline -2^{-3}$
11/2 15-8/2 14-0 14-0 14-0 14-0 14-0 14-0 15-8/2 14-0 14-0 14-0 15-8/2 14-0 14-0 15-8/2 14-0 14-0 14-0 14-0 15-8/2 14-0 14-0 14-0 14-0 15-8/2 14-0 14-0 15-8/2 14-0 14-0 15-8/2 14-0 15-8/2 14-0 15-8/2 14-0 15-8/2 14-0 15-8/2 14-0 15-8/2 14-0 15-8/2 15-8/2 14-0 15-8/2 15-8/2 15-8/2 14-0 15-8/2 15-8/	

FIRE	SPRINKLERS LEGEND:
$\bigcirc$	Hydraulic Reference Points
[10-8]	FT-IN Elev. Above Finished Floo
0-0	FT-IN Ceiling Height
	Denotes Hanger Location
0	Rise up or down
	Rigid Coupling
LPD	Low Point Drain

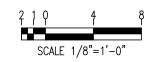




			TYPES OF	SPRINK	LERS OR E	QUAL				
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
٩	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
<b>O</b> <sub>200°</sub>	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226
$\Delta_{286^{\circ}}$	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		139
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	4
◀	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		2
								TOTAL	AMOUNT FOR LEVEL-1:	699



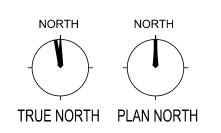
FIRE SPRINKLERS LEGEND: ○ Hydraulic Reference Points [10-8] FT-IN Elev. Above Finished Floor ⓓ–℗ FT−IN Ceiling Height ----- Denotes Hanger Location • Rise up or down 🛯 🗌 Rigid Coupling (LPD) Low Point Drain

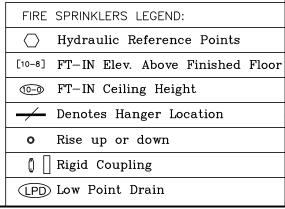


Harnett County School Northwest Harnett Elementary School				
736 Rollins Road, Fuquay Varina, NC 27526				
Owner or Occupant Harnett County School Dr. Aaron Fleming 1008 South 11th Street, Lillington, NC 27546 (919) 573-6350				
ARCHITECT SfL+a Architexch 333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350 Job Site Address Northweat Harpott Falamtany School				
Northwest Harnett Eelemtary School 736 Rollins Road, Fuquay-Varina, NC 27526 Job Site Contact				
<b>METCON</b> Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013				
Authority Having Jurisdiction Harnett County Fire Marshall				
Fire Protection Contact ABL Fire Protection, LLC Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050				
AREA-100 AREA-400				
AREA-300 AREA-500 LEVEL-01				
KEYPLAN				
Fire Protection, LLC				
ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210 Contractor Seal				
Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS				
I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire				
DRAWN BY     CHRISTY LAMSON       DATE     04/19/2022       SCALE     1/8" = 1'-0" UNO       SPRINKLERS ON JOBS     979				
OF REFERENCE OF CODE     OTO       CONTRACT NO.     4070       DESCRIPTION     REV DATE				
1         SUBMITTAL DRAWING         04/28/22         CL           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -				
SHEET TITLE AREA 500				
FIRST FLOOR FIRE SPRINKLER OVER HEAD PIPING PLAN				
SHEET NUMBER FP15				



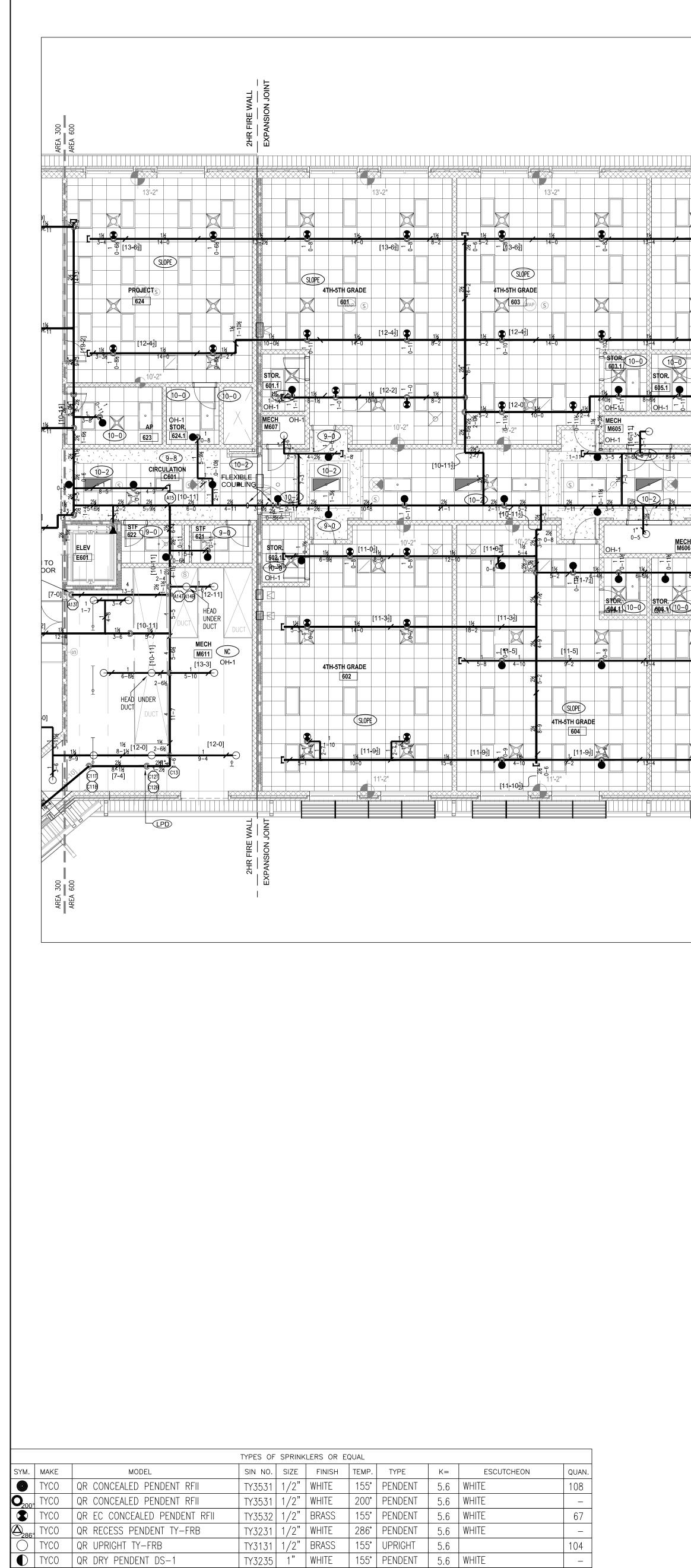
			TYPES OF	SPRINK	LERS OR E	QUAL				
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
0	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	108
<b>O</b> <sub>200</sub> <sup>c</sup>	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	_
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	67
$\bigcirc$	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	_
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		104
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	_
	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		1
TOTAL AMOUNT FOR LEVEL-2:							280			





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

Harnett Cou Northwes Elementai	t Harnett	
736 Rollir Fuquay Varina	ns Road,	
Owner or Occupant Harnett County Scho	ol	
ARCHITECT SfL+a Architexch 333 Fayetteville Street, Sui Raleigh, NC 27601 (919) 573-6350 Job Site Address Northwest Harnett Ee 736 Rollins Road, Fuguay-Varina, NC 27526		
Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Pembroke, NC 28372 (910) 521-8013	Place, Suite 121	
Authority Having Jurisd Harnett County Fire N		
Fire Protection Contact ABL Fire Protection, Design: Michael Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 602-6441	LLC	
AREA-100	AREA-400	
AREA-200		
F.		1
AREA-300	AREA-600 LEVEL-02	J
KEYPLAN		
Fire Protect	ction, LLC	
ABL FIRE PRO 300 HOKE STR NORTH CAR Phone: (919 Fax: (919)	EET, RALEIGH OLINA 27601 ) 835-2225	
arth K. Ja	meon fr.	
Arthur K. Lamson, Jr. N.I.C.E	.T. Level III #20462 FS	
I certify that to the best of my l prepared under my supervisio applicable NFPA standards, c	n, is in accordance with urrent building codes.	
This drawing and the informati ABL Fire Protection, LLC and altered or used in any form wit Protection, LLC.	may not be reproduced,	
DRAWN BY DATE SCALE SPRINKLERS ON JOBS CONTRACT NO.	CHRISTY LAMSON 04/19/2022 1/8" = 1'-0" UNO 979 4070	
DESCRIPTION           1         SUBMITTAL DRAWING	REV DATE BY	
SHEET TITLE AREA 300 SECOND FL FIRE SPRIN OVER HEAD PLAN SHEET NUMBER	KLER	
FP	16	

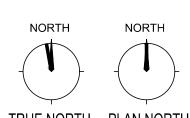


TOTAL AMOUNT FOR LEVEL-2: 280

1

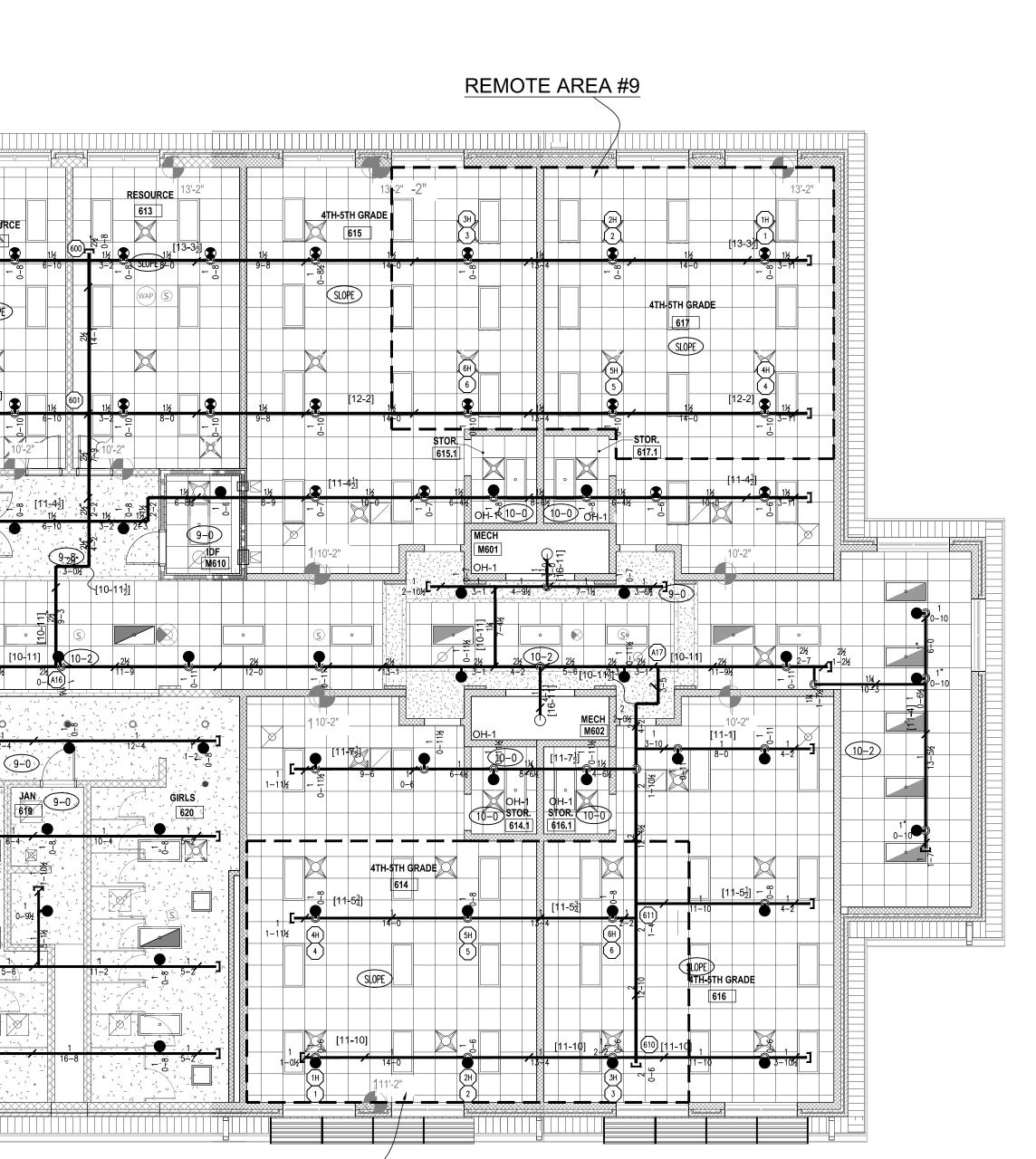
▼ TYCO QR HORIZONTAL SIDE WALL TY-FRB TY3331 1/2" BRASS 155° HSW 5.6

	13'-2" TH GRAUE		13'-2"		4TH-5TH GRADE	
			607 [13-3 <sup>1</sup> ] 1½ 4-5 ∞ 14-0		609 1½ ∞ 14=0	Image: Weight of the second
			4-5 - 0 - 0 SLOPE			9=8 - 8=0 WAR11/2 8=10 (S) SLOPE
		$\frac{1}{12-4}$	WAP (S)			
[12-0]				607.1 OH-1 OH-1		
			4-51) 9-22 " 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			½         1½ </td
	10-2" 9-8 (9-8)	2=6 CIRCULATION		7		M609 OH-1
Z/2	S     • <td></td> <td>• (S)</td> <td></td> <td></td> <td></td>		• (S)			
		$\begin{bmatrix} 2-5k \\ 17-4k \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $		MECH M604 M604		
	0			STOR 0 51010 0 5100 0 510000000000		
				$1 - \frac{9}{100}$ [11-5 <sup>1</sup> <sub>2</sub> ]		
4TH-5TH GRA	6E <sup>0</sup> 525 →					
			4TH-5TH GRADE		4TH-5TH GRADE	
	[11-9 <sup>1</sup> ]			× ≝ [11-9 <sup>3</sup> ] <u>1</u> 1 13 4 2-10 13 4	612 , [11] 14-0	



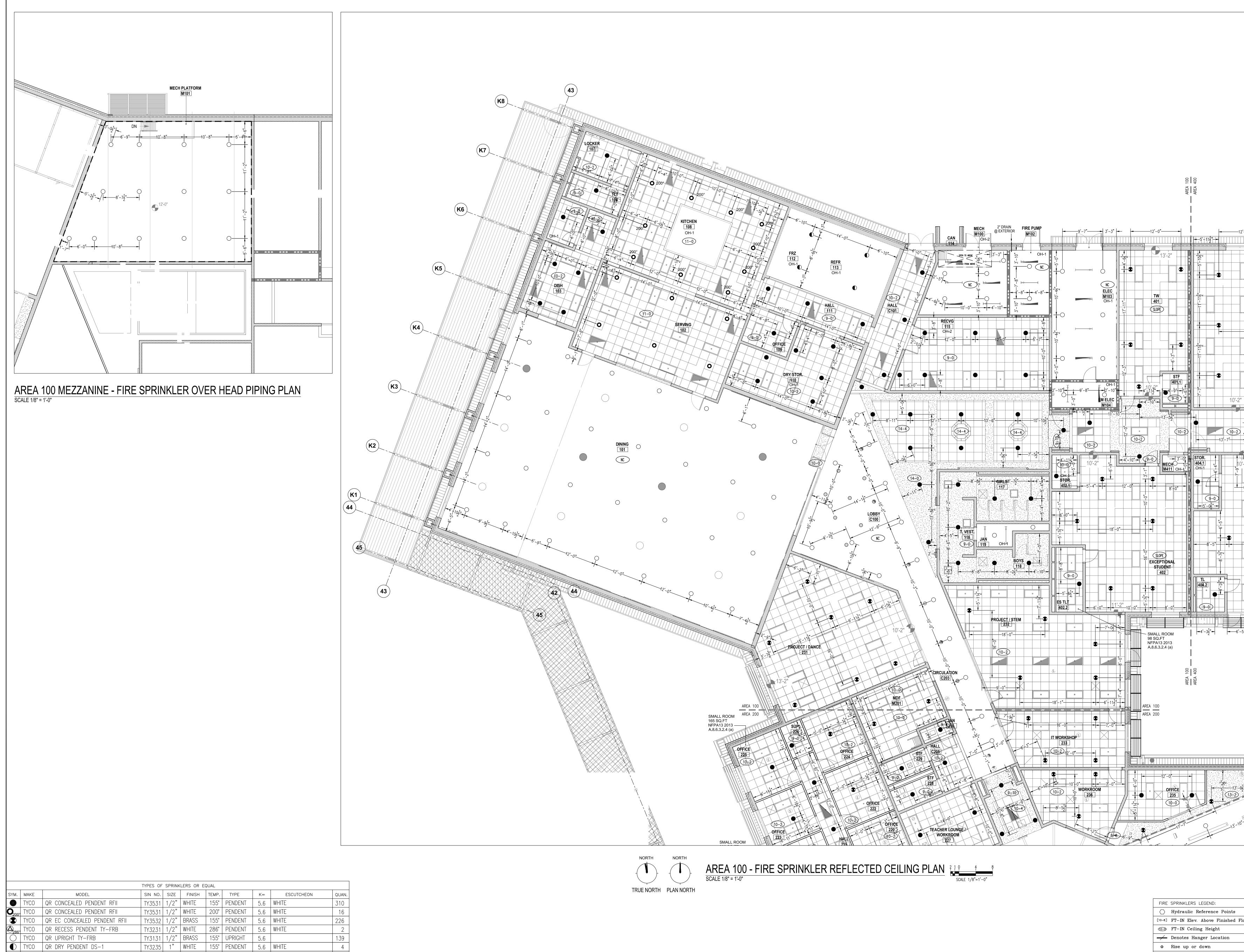
# AREA-600 SECOND FLOOR - FIRE SPRINKLER OVER HEAD PIPING PLAN

TRUE NORTH PLAN NORTH



REMOTE AREA #10

	Harnett County School Northwest Harnett
	Elementary School
	736 Rollins Road, Fuquay Varina, NC 27526
	Owner or Occupant Harnett County School
	ARCHITECT
	<b>SfL+a Architexch</b> 333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350
	Job Site Address Northwest Harnett Eelemtary School 736 Rollins Road, Fuquay-Varina, NC 27526
	Job Site Contact
	METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013
	Authority Having Jurisdiction Harnett County Fire Marshall
	Fire Protection Contact
	ABL Fire Protection, LLC Design: Michael Lamson 300 Hoke Street, Raleigh,
	North Carolina 27601 (919) 602-6441
	AREA-100 AREA-400
	AREA-200
	AREA-300
	KEYPLAN
	KLIFLAN
	Fire Protection, LLC
	ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210
	Contractor Seal
	Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS
	I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with
	applicable NFPA standards, current building codes. This drawing and the information hereon is the property of
	ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire Protection, LLC.
	DRAWN BY CHRISTY LAMSON DATE 04/19/2022
	SCALE $\frac{1}{8}$ " = 1'-0" UNOSPRINKLERS ON JOBS979CONTRACT NO.4070
	DESCRIPTION     REV     DATE     BY       1     SUBMITTAL DRAWING     04/28/22     CL
	SHEET TITLE AREA 600
FIRE SPRINKLERS LEGEND:	SECOND FLOOR
Image: First Section of the section	OVER HEAD PIPING
Image: Image	PLAN SHEET NUMBER
• Rise up or down	FP17
LED TOM LOUIL DLAIN	



◄ TYCO QR HORIZONTAL SIDE WALL TY-FRB TY3331 1/2" BRASS 155 HSW 5.6 TOTAL AMOUNT FOR LEVEL-1:

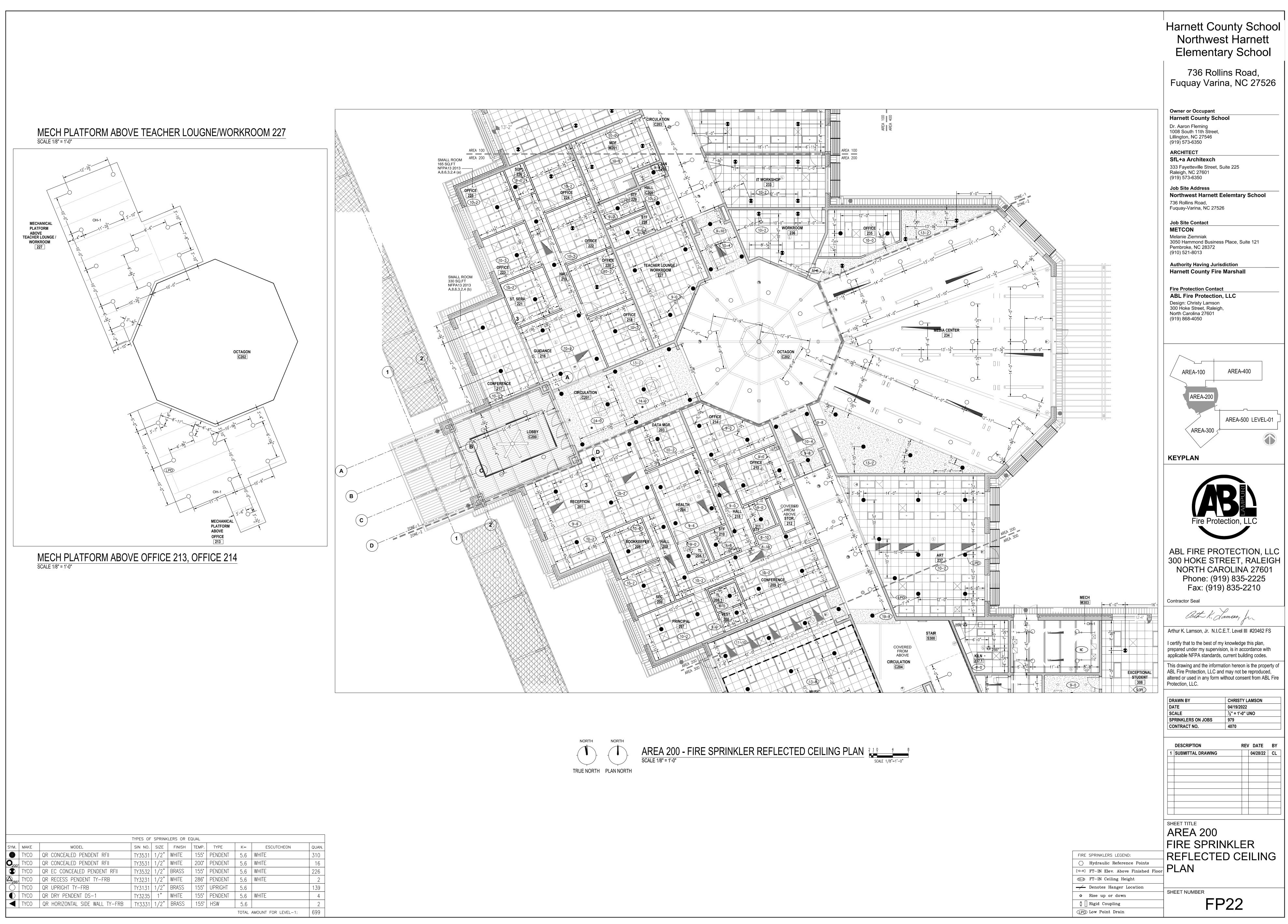
2

699

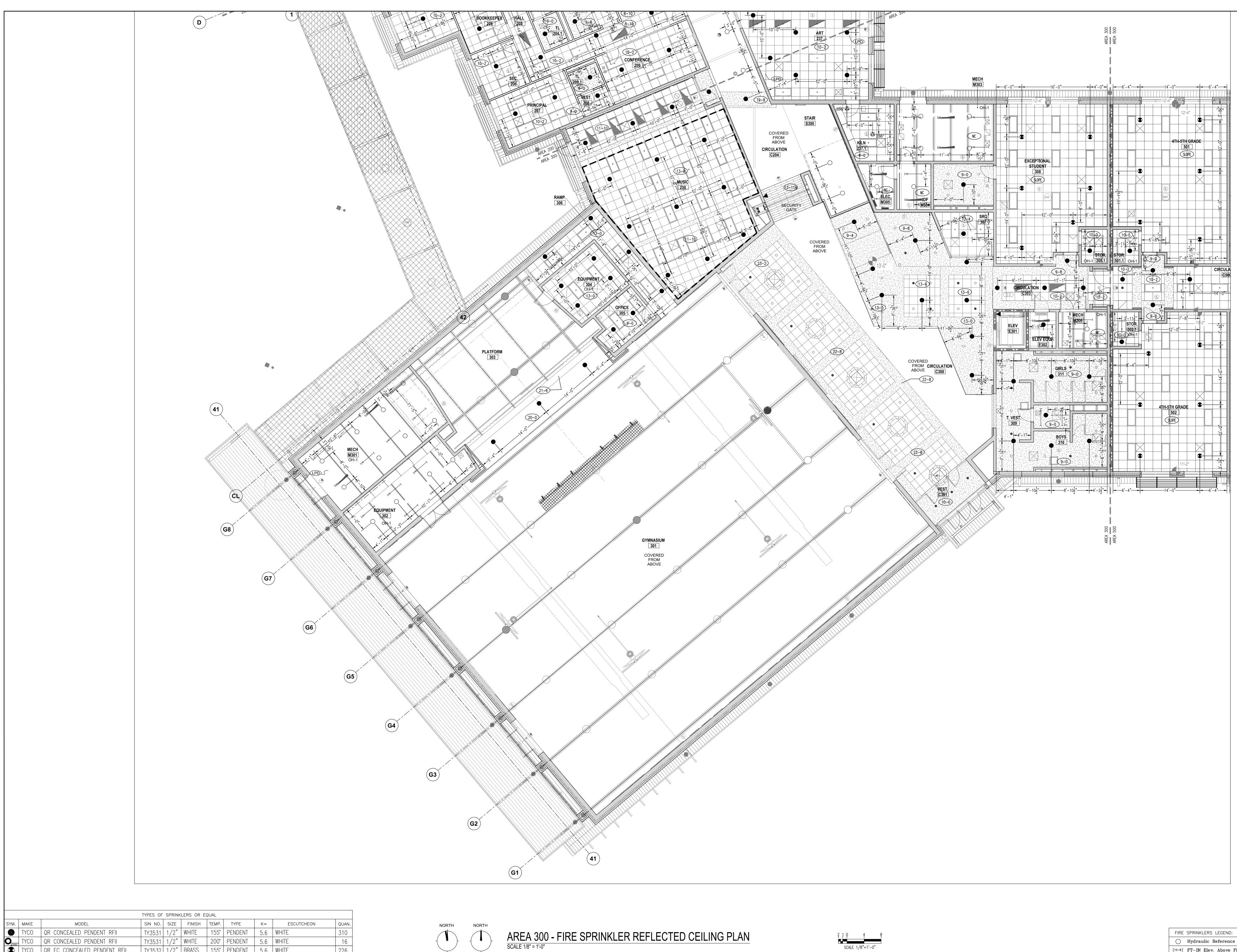


FIRE	SPRINKLERS LEGEND:
$\bigcirc$	Hydraulic Reference Points
[10-8]	FT-IN Elev. Above Finished Floor
10-0	FT-IN Ceiling Height
—	Denotes Hanger Location
0	Rise up or down
0 [	Rigid Coupling
(LPD)	Low Point Drain

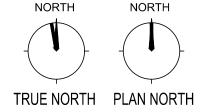
Harnett County School Northwest Harnett
Elementary School 736 Rollins Road,
Fuquay Varina, NC 27526
Owner or Occupant         Harnett County School         Dr. Aaron Fleming         1008 South 11th Street,         Lillington, NC 27546         (919) 573-6350         ARCHITECT         SfL+a Architexch         333 Fayetteville Street, Suite 225         Raleigh, NC 27601
(919) 573-6350 Job Site Address Northwest Harnett Eelemtary School 736 Rollins Road, Fuquay-Varina, NC 27526
Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013
Authority Having Jurisdiction Harnett County Fire Marshall
Fire Protection Contact ABL Fire Protection, LLC Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050
AREA-100 AREA-400
AREA-200
AREA-300
KEYPLAN
Fire Protection, LLC
ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210
anth K. Jamson, Jr.
Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire
Protection, LLC.           DRAWN BY         CHRISTY LAMSON           DATE         04/40/2022
DATE         04/19/2022           SCALE         ½" = 1'-0" UNO           SPRINKLERS ON JOBS         979           CONTRACT NO.         4070
DESCRIPTION REV DATE BY       1     SUBMITTAL DRAWING     04/28/22     CL
SHEET TITLE AREA 100 FIRE SPRINKLER REFLECTED CEILING PLAN
SHEET NUMBER FP21



FIRE	SPRINKLERS LEGEND:
$\bigcirc$	Hydraulic Reference Points
[10-8]	FT-IN Elev. Above Finished Floor
10-0	FT-IN Ceiling Height
	Denotes Hanger Location
0	Rise up or down
00	Rigid Coupling
(PD)	Low Point Drain
L	

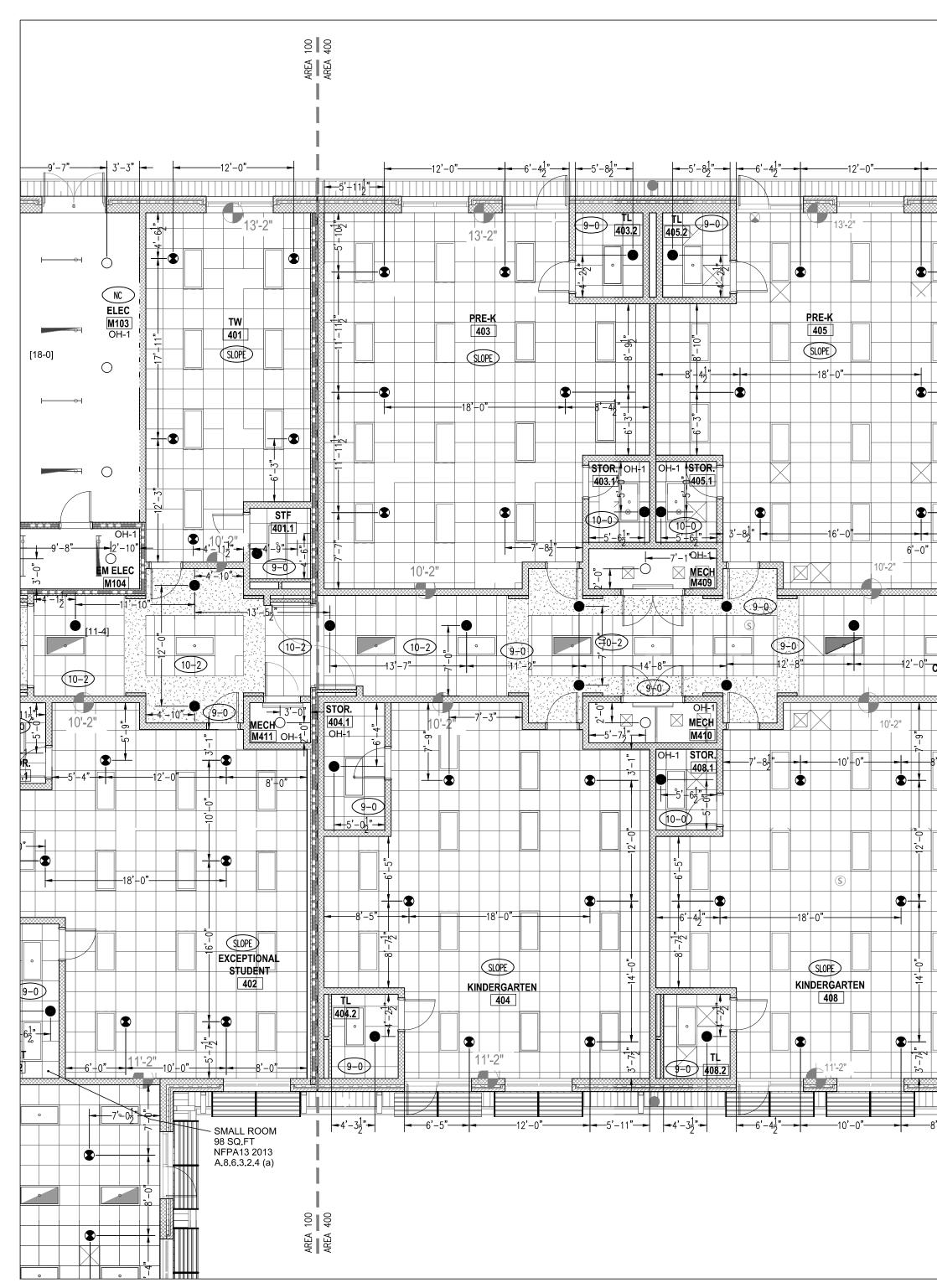


			TYPES OF	SPRINK	LERS OR E	QUAL				
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
0	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
<b>O</b> <sub>200</sub> °	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226
$\Delta_{286}$	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		139
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	4
	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		2
								TOTAL	AMOUNT FOR LEVEL-1:	699



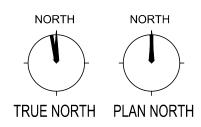
I	
	Harnett County School Northwest Harnett Elementary School
	736 Rollins Road, Fuquay Varina, NC 27526
4TH-5TH GRADE	Owner or Occupant Harnett County School Dr. Aaron Fleming 1008 South 11th Street, Lillington, NC 27546 (919) 573-6350 ARCHITECT SfL+a Architexch
	333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350 Job Site Address Northwest Harnett Eelemtary School 736 Rollins Road, Fuquay-Varina, NC 27526
	Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013
	Authority Having Jurisdiction Harnett County Fire Marshall
	Fire Protection Contact ABL Fire Protection, LLC Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050
H GRADE	AREA-100 AREA-400 AREA-200 AREA-200 AREA-500 LEVEL-01 AREA-300
	ABL FIRE PROTECTION, LLC         ABL FIRE PROTECTION, LLC         State Streef, Rateigh         NORTH CAROLINA 27601         Phone: (919) 835-2225         Fax: (919) 835-2225         Contractor Seal         Athur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS         I certify that to the best of my knowledge this plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision in in generating mathematical plan, researed under my automision plan, researed under my aut
	prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire Protection, LLC.
	DRAWN BY         CHRISTY LAMSON           DATE         04/19/2022           SCALE         ½" = 1'-0" UNO           SPRINKLERS ON JOBS         979           CONTRACT NO.         4070
	DESCRIPTION     REV     DATE     BY       1     SUBMITTAL DRAWING     04/28/22     CL       1     Image: Submittal drawing     Image: Submittal drawing     Image: Submittal drawing
FIRE       SPRINKLERS LEGEND:         Image: Optimized Description       Image: Optimized Description         Image: Optimized Description       Image: Optimized Descriptic Descriptic Description	SHEET TITLE AREA 300 FIRE SPRINKLER REFLECTED CEILING PLAN
<ul> <li>Denotes Hanger Location</li> <li>Rise up or down</li> <li>Rigid Coupling</li> <li>Low Point Drain</li> </ul>	SHEET NUMBER FP23

SCALE 1/8"=1'-0"



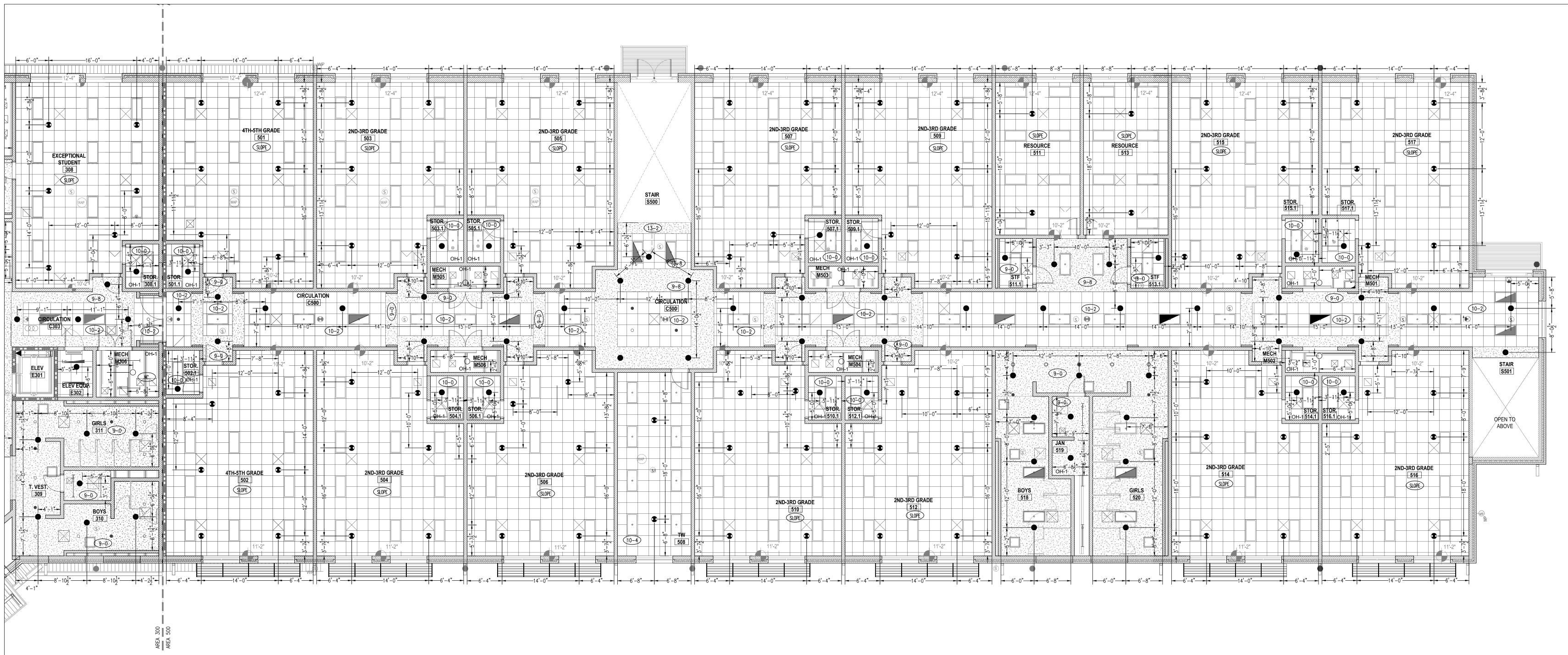
	1		TIFLS OF		LERS OR E		I			
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
<b>O</b> <sub>200°</sub>	, TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226
(ک) 286°	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		139
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	4
	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		2
TOTAL AMOUNT FOR LEVEL-1:						699				

	13'-2" 9-0 TL 9-0 407.2		
			╘║╁────────────────────────────────────
	PRE-K		
	$-18'-0" \qquad -18'-4\frac{1}{2}" \qquad -8'-4\frac{1}{2}" \qquad -$		
			$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	<u></u>		
	0H-1 <sup>+</sup> → DH-1 <sup>+</sup> →		
47'-7	$10^{1} 2^{11} \qquad $		$-\frac{1}{2} OH-1$
[11-4]		9-0	- LELA - 방법가상업수를 전망하는 방상 방법을 해외했다. 이는 소문의 가는 이는 NELA 이는 NELA - N
• • • • • •			
RCULATION 14'-0"			
			$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	10'-2" 		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	10'-2"		$10^{-2''}$ $10^{$
	10'-2"		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	10'-2" 		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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	10'-2"		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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	$10'-2'' \qquad $		10-2     10-2
	$10'-2'' \qquad $		
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10'-2" -7'-8 <sup>1</sup> " -10'-2" -1	
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	7'-82"     10'-2"       7'-82"     0       8     0       10'-2"     0	
	$10^{-2^{\prime\prime}} \qquad \qquad$	7'-82"     10'-2"       7'-82"     0       8     0       10'-2"     0	
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	7'-82"     10'-2"       7'-82"     0       8     0       10'-2"     0	
	$10^{-2''} \qquad $	7'-82"     10'-2"       7'-82"     10'-2"       8     10'-2"       8     10'-2"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-1"     10'-1"       10'-	
	$10^{-2''} \qquad $	7'-82"     10'-2"       7'-82"     10'-2"       8     10'-2"       8     10'-2"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-1"     10'-1"       10'-	
	$10^{-2''} \qquad $	7'-82"     10'-2"       7'-82"     10'-2"       8     10'-2"       8     10'-2"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-1"     10'-1"       10'-	
	$10^{-2''} \qquad $	7'-82"     10'-2"       7'-82"     10'-2"       8     10'-2"       8     10'-2"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-1"     10'-1"       10'-	
	$10^{-2''} \qquad $	7'-82"     10'-2"       7'-82"     10'-2"       8     10'-2"       8     10'-2"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-2"     10'-1"       10'-1"     10'-1"       10'-	

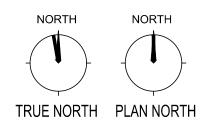


AREA 400 - FIRE SPRINKLER REFLECTED CEILING PLAN SCALE 1/8" = 1'-0"

	Harnett County School Northwest Harnett Elementary School
	736 Rollins Road, Fuquay Varina, NC 27526
	Owner or Occupant Harnett County School Dr. Aaron Fleming 1008 South 11th Street, Lillington, NC 27546 (919) 573-6350 ARCHITECT
	SfL+a Architexch 333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350 Job Site Address Northwest Harnett Eelemtary School
	736 Rollins Road, Fuquay-Varina, NC 27526 Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121
	Pembroke, NC 28372 (910) 521-8013 Authority Having Jurisdiction Harnett County Fire Marshall Fire Protection Contact
	ABL Fire Protection, LLC Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050
<u>VEST</u> <u>C401</u> 10'-2" <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>10'-2"</u> <u>1</u>	AREA-100 AREA-200
	AREA-500 LEVEL-01 AREA-300 KEYPLAN
	Fire Protection, LLC ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601
	Phone: (919) 835-2225 Fax: (919) 835-2210 Contractor Seal
	Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire Protection, LLC.
	DRAWN BY         CHRISTY LAMSON           DATE         04/19/2022           SCALE         ½" = 1'-0" UNO           SPRINKLERS ON JOBS         979           CONTRACT NO.         4070
	DESCRIPTION     REV     DATE     BY       1     SUBMITTAL DRAWING     04/28/22     CL       -     -     -     -
FIRE SPRINKLERS LEGEND:	SHEET TITLE AREA 400 FIRE SPRINKLER REFLECTED CEILING
<ul> <li>Hydraulic Reference Points</li> <li>[10-8] FT-IN Elev. Above Finished Floor</li> <li>FT-IN Ceiling Height</li> <li>Denotes Hanger Location</li> <li>Rise up or down</li> <li>Rigid Coupling</li> </ul>	PLAN SHEET NUMBER FP24
LPD Low Point Drain	



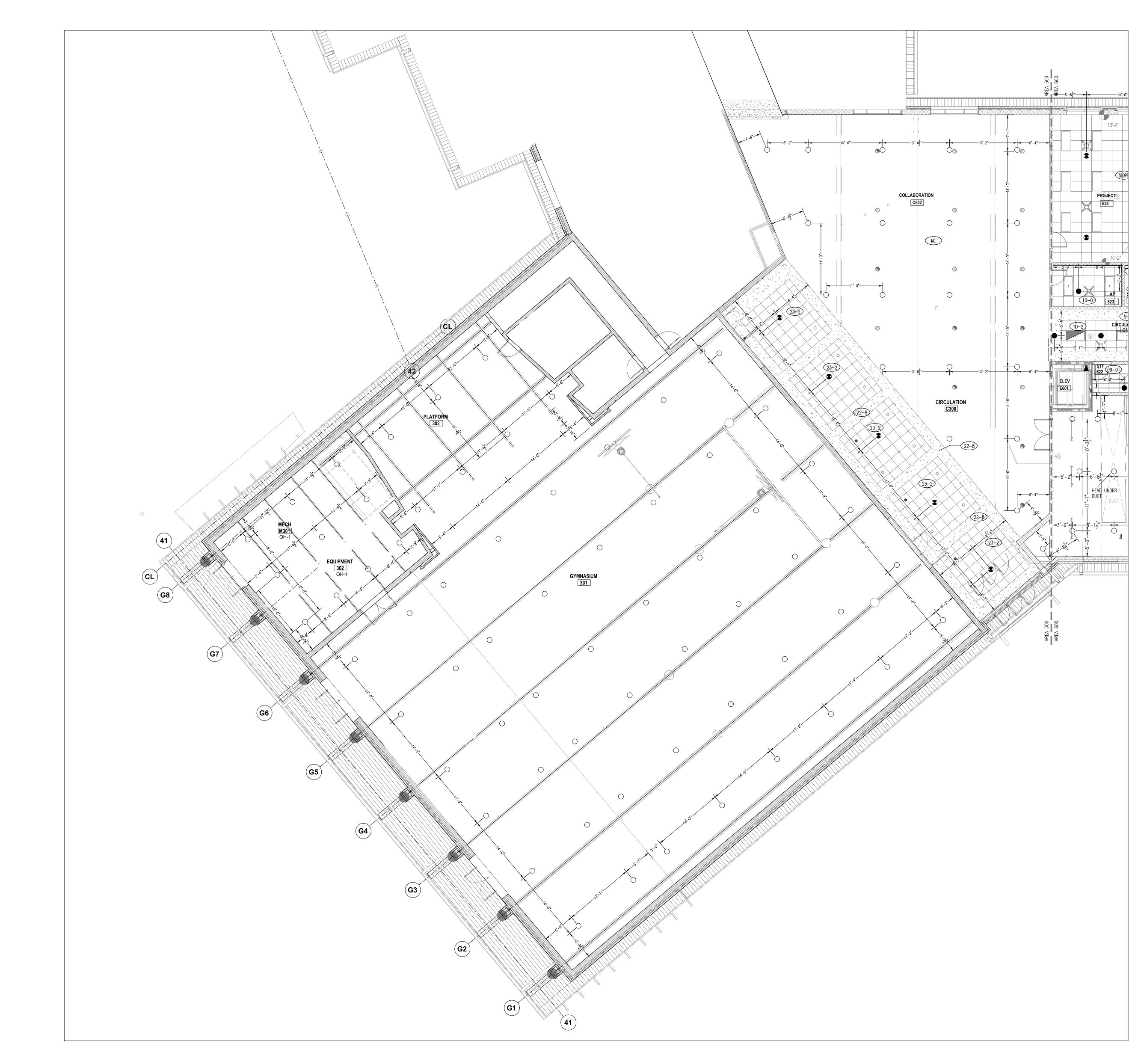
			TYPES OF	SPRINK	KLERS OR E	QUAL				
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
<b>O</b> <sub>200</sub> .	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226
$\Delta_{286^{\circ}}$	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		139
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	4
◀	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		2
								TOTAL	AMOUNT FOR LEVEL-1:	699



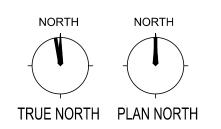


	Harnett County School Northwest Harnett Elementary School
	736 Rollins Road, Fuquay Varina, NC 27526
	Owner or OccupantHarnett County SchoolDr. Aaron Fleming1008 South 11th Street,Lillington, NC 27546(919) 573-6350ARCHITECTSfL+a Architexch333 Fayetteville Street, Suite 225Raleigh, NC 27601(919) 573-6350Job Site AddressNorthwest Harnett Eelemtary School736 Rollins Road,
201-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Fuquay-Varina, NC 27526 Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013
<sup>1</sup> <sup>1</sup> <sup>2</sup> - <sup>1</sup> - <sup>1</sup> <sup>2</sup> - <sup>1</sup> <sup>2</sup> - <sup>3</sup> - <sup>3</sup>	Authority Having Jurisdiction Harnett County Fire Marshall Fire Protection Contact ABL Fire Protection, LLC Design: Christy Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 868-4050
	AREA-100 AREA-200 AREA-200 AREA-300 AREA-300
OPEN TO ABOVE	KEYPLAN
€ Gam	ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210 Contractor Seal
	Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes.
	This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire Protection, LLC.         DRAWN BY       CHRISTY LAMSON
	DRAWN BT         CHRISTT LAMISON           DATE         04/19/2022           SCALE         ½" = 1'-0" UNO           SPRINKLERS ON JOBS         979           CONTRACT NO.         4070
	DESCRIPTION       REV       DATE       BY         1       SUBMITTAL DRAWING       04/28/22       CL         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -       -         -       -       -       -       -       -       -         -       -       -       -       -       -       -       -         -       -       -       -       -       -       -       -       -         -       -       -       -       -       -       -       -       -         -       -       -       -       -       -       -       -       -       -       -       - <tr< th=""></tr<>
FIRE SPRINKLERS LEGEND: Hydraulic Reference Points [10-8] FT-IN Elev. Above Finished Floor FT-IN Ceiling Height	AREA 500 FIRE SPRINKLER REFLECTED CEILING PLAN
<ul> <li>Denotes Hanger Location</li> <li>Rise up or down</li> <li>Rigid Coupling</li> <li>Low Point Drain</li> </ul>	SHEET NUMBER FP25

SCALE 1/8"=1'-0"



			TYPES OF	SPRINK	LERS OR E	QUAL				
SYM.	MAKE	MODEL	SIN NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN
0	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	108
<b>O</b> <sub>200°</sub>	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	_
	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	67
(ک) 286°	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	-
$\bigcirc$	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6		104
	TYCO	QR DRY PENDENT DS-1	TY3235	1"	WHITE	155°	PENDENT	5.6	WHITE	_
	TYCO	QR HORIZONTAL SIDE WALL TY-FRB	TY3331	1/2"	BRASS	155°	HSW	5.6		1
								TOTAL	AMOUNT FOR LEVEL-2:	280

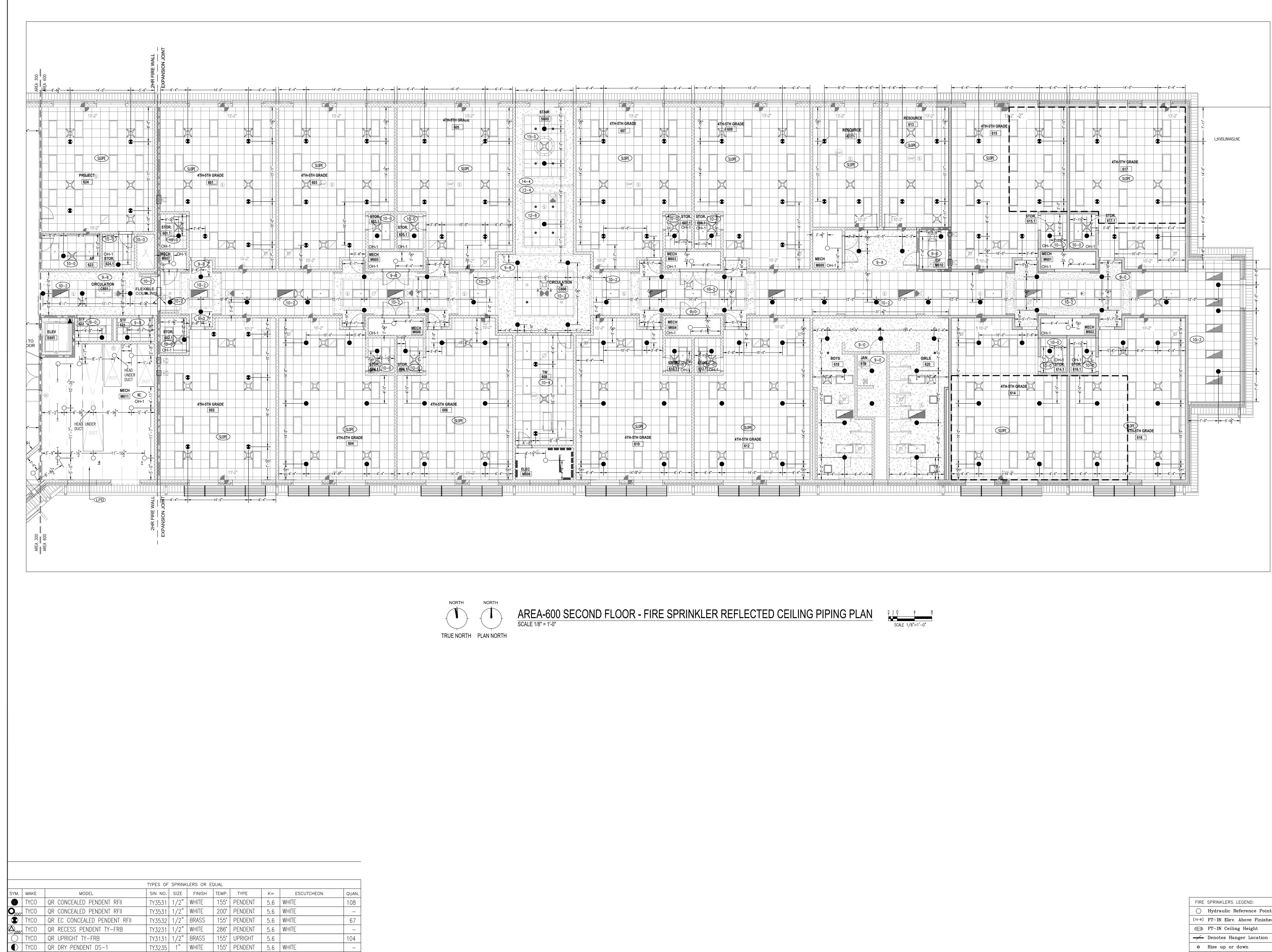


AREA-300 SECOND FLOOR - FIRE SPRINKLER REFLECTED CEILING PIPING PL/ SCALE 1/8" = 1'-0"

LAN		4	8 
	SCALE	1/8"=1'-0	"

FIRE	SPRINKLERS LEGEND:
$\bigcirc$	Hydraulic Reference Points
[10-8]	FT-IN Elev. Above Finished Floc
10-0	FT-IN Ceiling Height
	Denotes Hanger Location
0	Rise up or down
	Rigid Coupling
	Low Point Drain

Harnett County School Northwest Harnett Elementary School
736 Rollins Road, Fuquay Varina, NC 27526
Owner or Occupant Harnett County School
ARCHITECT SfL+a Architexch 333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350
Job Site Address Northwest Harnett Eelemtary School 736 Rollins Road, Fuquay-Varina, NC 27526
Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013
Authority Having Jurisdiction Harnett County Fire Marshall
Fire Protection Contact ABL Fire Protection, LLC Design: Michael Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 602-6441
AREA-100 AREA-400
AREA-200 AREA-600 LEVEL-02
KEYPLAN
Fire Protection, LLC
ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210 Contractor Seal
Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS
I certify that to the best of my knowledge this plan, prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced,
altered or used in any form without consent from ABL Fire         Protection, LLC.         DRAWN BY         CHRISTY LAMSON
DATE         04/19/2022           SCALE         1/8" = 1'-0" UNO           SPRINKLERS ON JOBS         979           CONTRACT NO.         4070
DESCRIPTION     REV     DATE     BY       1     SUBMITTAL DRAWING     04/28/22     CL       -     -     -     -     -
SHEET TITLE AREA 300 SECOND FLOOR FIRE SPRINKLER REFLECTED CEILING PIPING PLAN
SHEET NUMBER FP26



◄ TYCO QR HORIZONTAL SIDE WALL TY-FRB TY3331 1/2" BRASS 155° HSW

5.6

TOTAL AMOUNT FOR LEVEL-2: 280

	Harnett County School Northwest Harnett Elementary School
	736 Rollins Road, Fuquay Varina, NC 27526
	Owner or Occupant Harnett County School
	ARCHITECT SfL+a Architexch 333 Fayetteville Street, Suite 225 Raleigh, NC 27601 (919) 573-6350 Job Site Address Northwest Harnett Eelemtary School 736 Rollins Road, Fuquay-Varina, NC 27526 Job Site Contact METCON Melanie Ziemniak 3050 Hammond Business Place, Suite 121 Pembroke, NC 28372 (910) 521-8013 Authority Having Jurisdiction Harnett County Fire Marshall Fire Protection Contact ABL Fire Protection, LLC Design: Michael Lamson 300 Hoke Street, Raleigh, North Carolina 27601 (919) 602-6441
	AREA-100 AREA-200 AREA-200 AREA-300 KEYPLAN
	<b>ABE</b> Fire Protection, LLC
	ABL FIRE PROTECTION, LLC 300 HOKE STREET, RALEIGH NORTH CAROLINA 27601 Phone: (919) 835-2225 Fax: (919) 835-2210 Contractor Seal
	Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS I certify that to the best of my knowledge this plan,
	prepared under my supervision, is in accordance with applicable NFPA standards, current building codes. This drawing and the information hereon is the property of ABL Fire Protection, LLC and may not be reproduced, altered or used in any form without consent from ABL Fire Protection, LLC.
	DRAWN BYCHRISTY LAMSONDATE04/19/2022SCALE1/8" = 1'-0" UNOSPRINKLERS ON JOBS979CONTRACT NO.4070
	DESCRIPTION     REV     DATE     BY       1     SUBMITTAL DRAWING     04/28/22     CL
FIRE       SPRINKLERS       LEGEND:         Image: Im	PIPING PLAN
o       Rise up or down         ∅       ☐       Rigid Coupling         ↓       □       Low Point Drain	FP27
	1