

## Submittal #21 13 00-2.0 - 211300 - Automatic Sprinkler Systems 21 13 00 - Automatic Sprinkler Systems

<b>Revision</b>	0	<b>Submittal Manager</b>	Marquis Mason (Metcon, Inc.)
<b>Status</b>	Open	<b>Date Created</b>	Jul 28, 2021
<b>Issue Date</b>		<b>Spec Section</b>	21 13 00 - Automatic Sprinkler Systems
<b>Responsible Contractor</b>	ABL Fire Protection	<b>Received From</b>	
<b>Received Date</b>		<b>Submit By</b>	Sep 30, 2021
<b>Final Due Date</b>	May 20, 2022	<b>Lead Time</b>	
		<b>Cost Code</b>	
<b>Location</b>		<b>Type</b>	Shop Drawing
<b>Owner Review</b>			
<b>Approvers</b>	Troy Ganus Jr. (Metcon, Inc.), Marquis Mason (Metcon, Inc.), Scott Drew (Optima Engineering, PA), Drew Landen (Optima Engineering, PA), Tom Hughes (SfL+a Architects), Mahan Kick (SfL+a Architects), Jaclin Wawak (SfL+a Architects), Troy Ganus Jr. (Metcon, Inc.), Marquis Mason (Metcon, Inc.)		
<b>Ball in Court</b>	Troy Ganus Jr. (Metcon, Inc.), Marquis Mason (Metcon, Inc.)		
<b>Distribution</b>	Denis Escobar (Metcon, Inc.)		
<b>Description</b>	<p>C. Submit shop drawings in accordance with the following: 1. Working plans shall be submitted for approval to the authority having jurisdiction before any equipment is installed or remodeled. 2. Deviation from approved plans shall require permission of the authority having jurisdiction. 3. Working plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor, and shall show those items from the following list that pertain to the design of the system: a. Name of the owner and occupant. b. Location, including street address. c. Point of compass. d. Full height cross section, or schematic diagram, including structural member information if required for clarity and including ceiling construction. e. Location of partitions. f. Location of fire walls. g. Occupancy class of each area or room. h. Location and size of concealed spaces, closets, attics, and bathrooms. i. Any small enclosures in which no sprinklers are to be installed. Automatic Sprinkler Systems 21 13 00 - 2 j. Size of city main in street and whether dead end or circulating; if dead end, direction, and distance to nearest circulating main; and city main test results and system elevation relative to test hydrant. k. Other sources of water supply, with pressure or elevation. l. Make, type, model, and nominal K-factor of sprinklers including sprinkler identification number. m. Temperature rating and location of high-temperature sprinklers. n. Total area protected by each system on each floor. o. Number of sprinklers on each riser per floor. p. Pipe type and schedule of wall thickness. q. Nominal pipe size and cutting lengths (or center-to-center dimensions). Where typical branch lines prevail, it shall be necessary to size only one typical line. r. Location and size of riser nipples. s. Type of fittings and joints and location of all welds and bends. The contractor shall specify on drawing any sections to be shop welded and the type of fittings or formations to be used. t. Type and locations of hangers, sleeves, braces, and methods of securing sprinklers when applicable. u. All control valves, check valves, drain pipes, and test connections. v. Make, type, model, and size of alarm valve. w. Kind and location of alarm bells. x. Private fire service main sizes, lengths, locations, weights, materials, point of connection to city main; the sizes, types, and locations of valves, valve indicators, regulators, meters, and valve pits; and the depth that the top of the pipe is laid below grade. y. Piping provisions for flushing. z. For hydraulically designed systems, the information on the hydraulic data nameplate. aa. A graphic representation of the scale used on all plans. bb. Name and address of the contractor. cc. Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculation sheets. dd. The minimum rate of water application (density or flow or discharge pressure), the design area of water application, and the water required for hose streams both inside and outside. ee. The total quantity of water and the pressure required noted at a common reference point for each system. ff. Relative elevations of sprinklers, junction points, and supply or reference points. gg. If room design method is used, all unprotected wall openings throughout the floor protected. Automatic Sprinkler Systems 21 13 00 - 3 hh. Information about backflow preventers. ii. Static and residual hydrants that were used in flow tests shall be shown. jj. Size, location, and piping arrangement of fire department connections. kk. Ceiling/roof heights and slopes not shown in the full height cross section. ll. Edition year of NFPA 13 to which the sprinkler system is designed. 4. A signed copy of the owner's certificate and the shop drawing submittal shall include the manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any sprinklers, devices, piping, or fittings. 5. Water supply information: a. Include the following water supply capacity information: 1) Location and elevation of static and residual test gauge with relation to the riser reference point. 2) Flow location. 3) Static</p>		

pressure in psi. 4) Residual pressure in psi. 5) Flow in gpm. 6) Date. 7) Time. 8) Name of person who conducted the test or supplied the information. 9) Other sources of water supply, with pressure or elevation. b. Where a waterflow test is used for the purposes of system design, the test shall be conducted no more than twelve (12) months prior to working plan submittal unless otherwise approved by the authority having jurisdiction. c. The following information shall be included when water supply treatment is provided: 1) Type of condition that requires treatment. 2) Type of treatment needed to address the problem. 3) Details of treatment plan.

**Submittal Workflow**

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					
Art Lamson		Oct 11, 2021		Pending	
Gail Lamson		Oct 11, 2021	Apr 28, 2022	Submitted	<a href="#">NWHEs FP SUBMITTAL DRAWING.pdf (Current)</a>
Troy Ganus Jr.		Apr 29, 2022		Pending	
Marquis Mason		Apr 29, 2022		Pending	
Scott Drew		May 20, 2022		Pending	
Drew Landen		May 20, 2022		Pending	
Tom Hughes		May 20, 2022		Pending	
Mahan Kick		May 20, 2022		Pending	
Jaclin Wawak		May 20, 2022		Pending	
Troy Ganus Jr.		May 20, 2022		Pending	
Marquis Mason		May 20, 2022		Pending	

SHOP DRAWING / SUBMITTAL REVIEW	
<input type="checkbox"/> APPROVED	<input type="checkbox"/> APPROVE WITH CHANGES NOTED
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> REVIEWED	
SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS. ONLY THE SUBCONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOBSITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION, PROCESSES AND TECHNIQUES OF CONSTRUCTION. COORDINATION OF HIS/HER WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.	
BY: <u>Marquis Mason</u>	04/29/22
Metcon Construction, Inc. Pembroke, NC 28372	

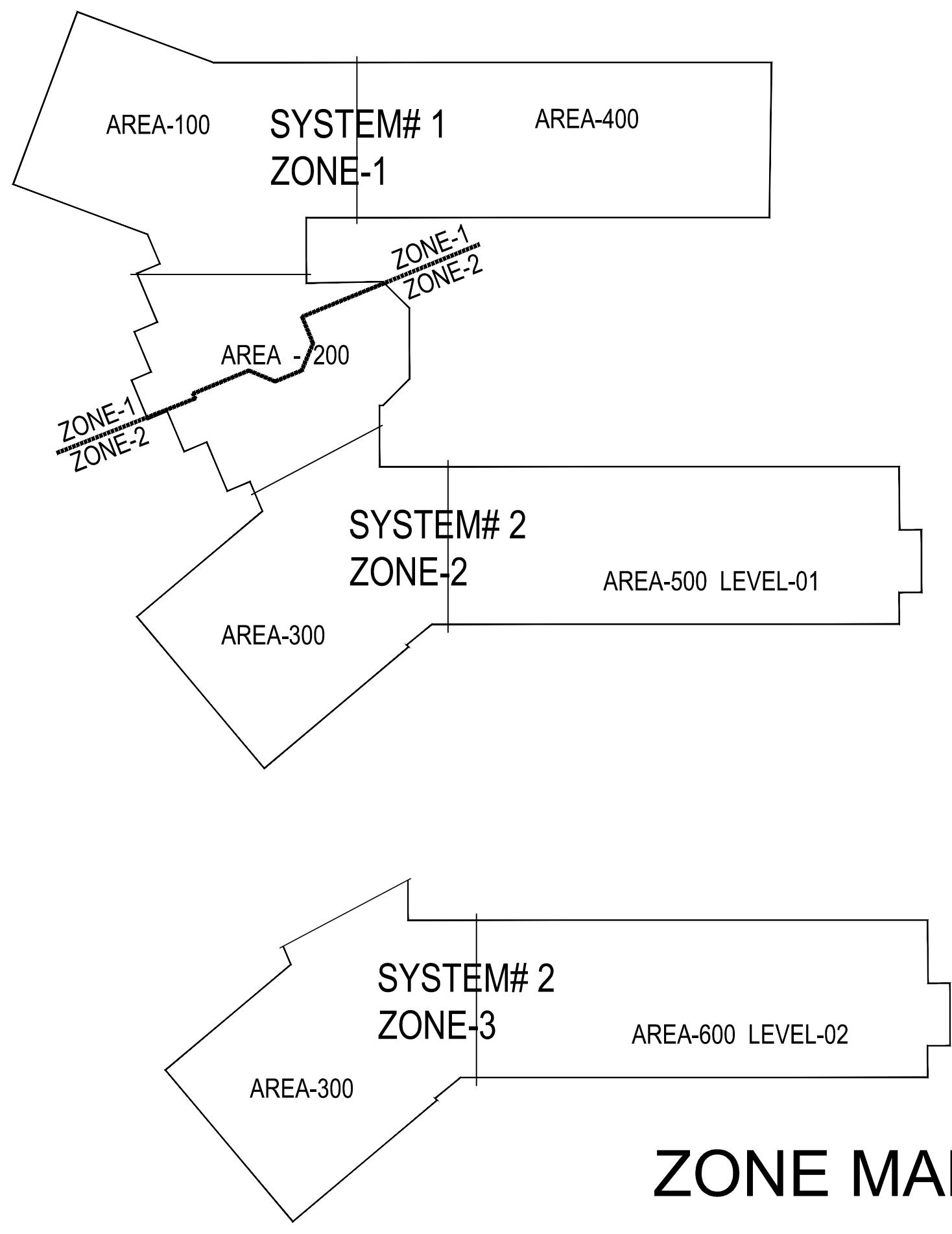
**GENERAL NOTES**

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 REQUIREMENTS 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 UNLESS NOTED OTHERWISE.
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.

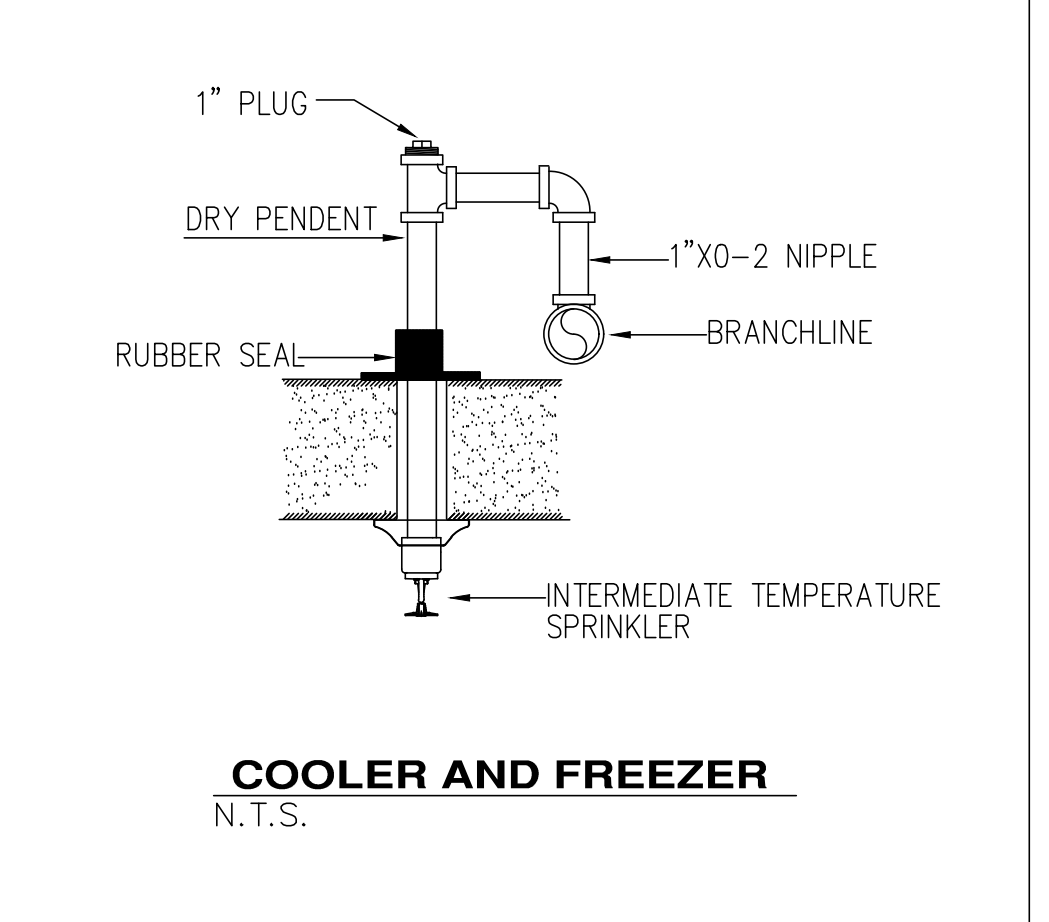
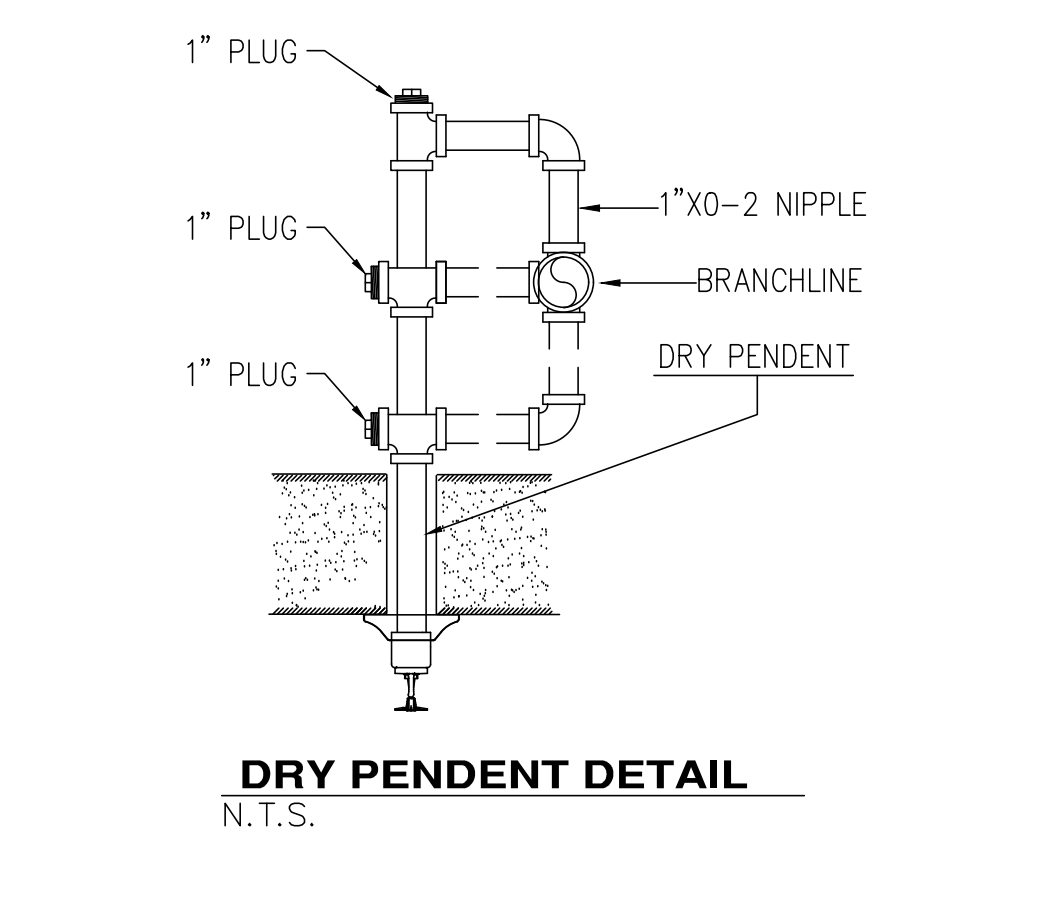
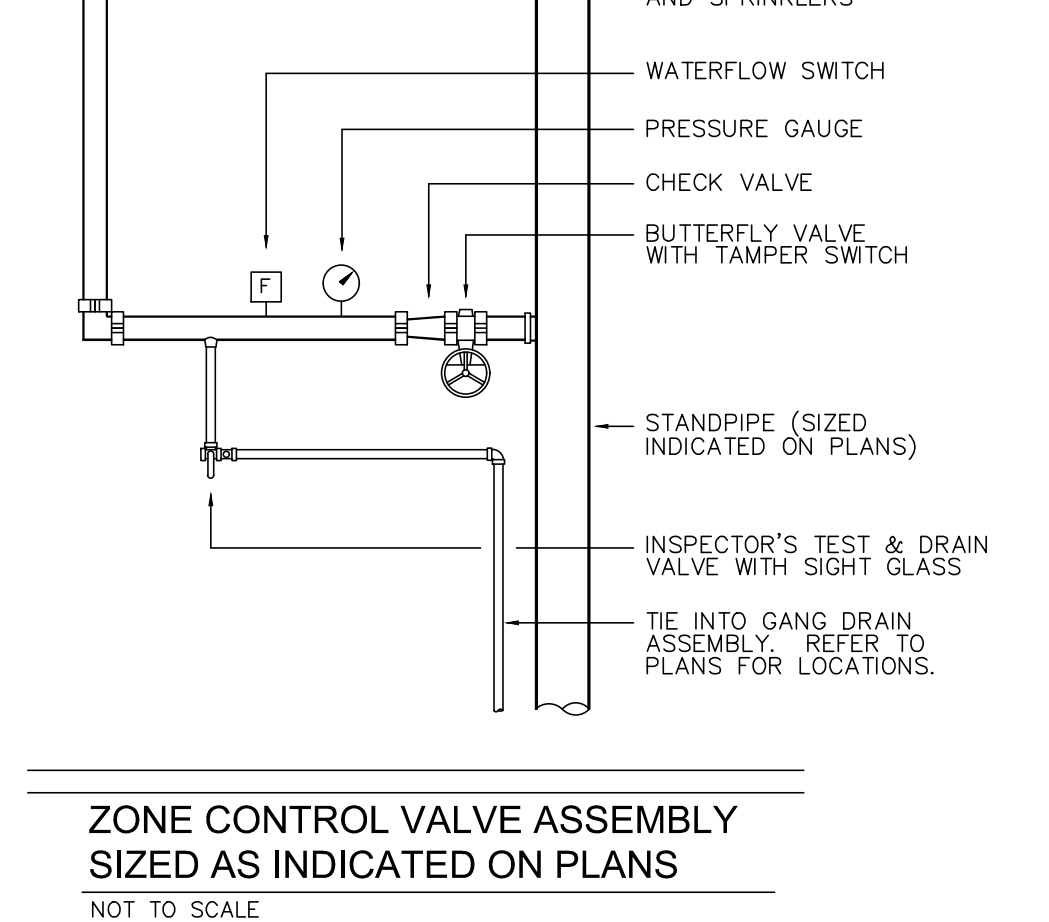
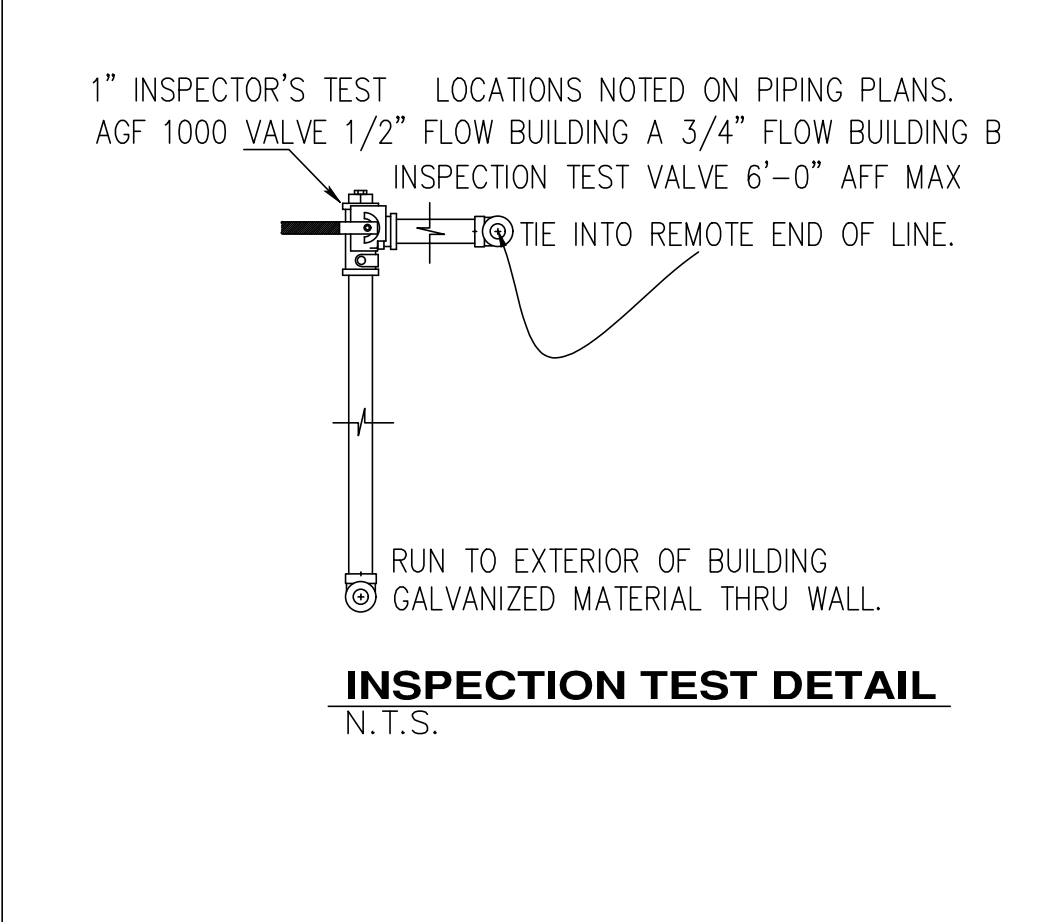
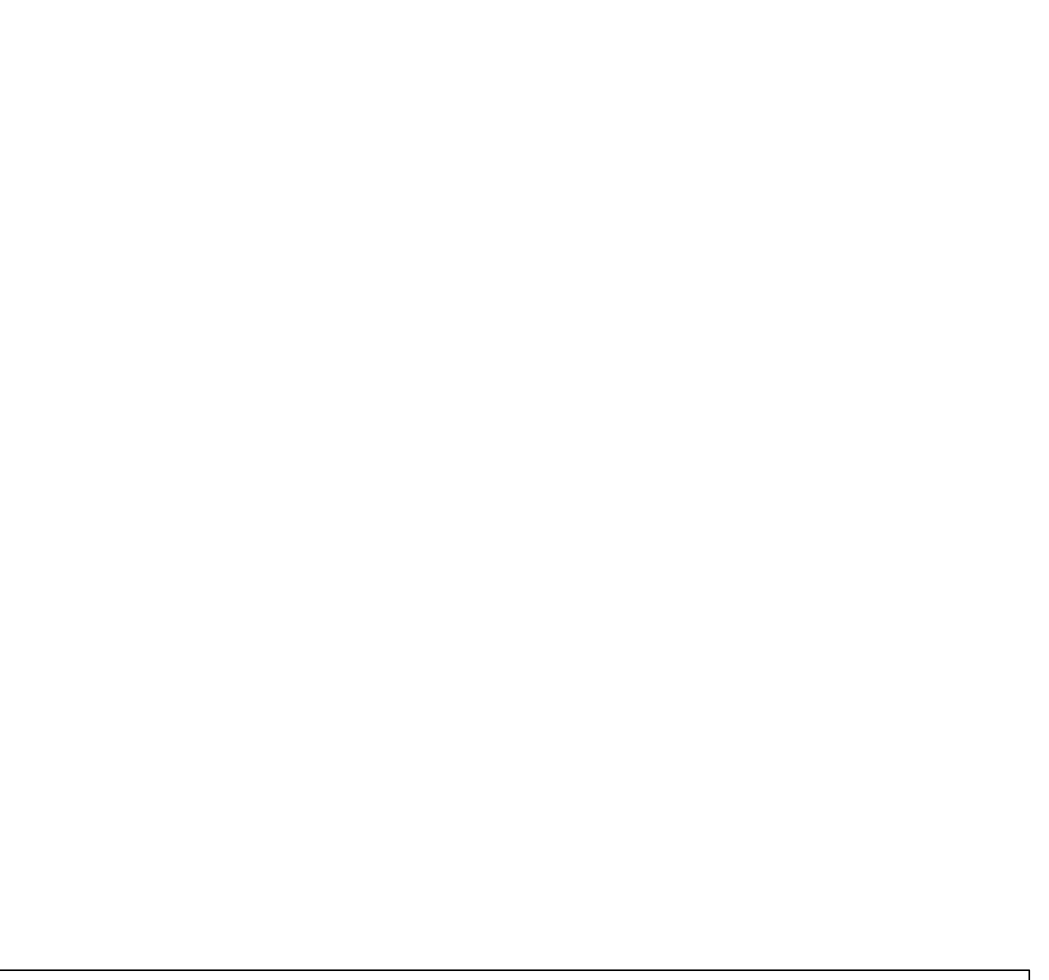
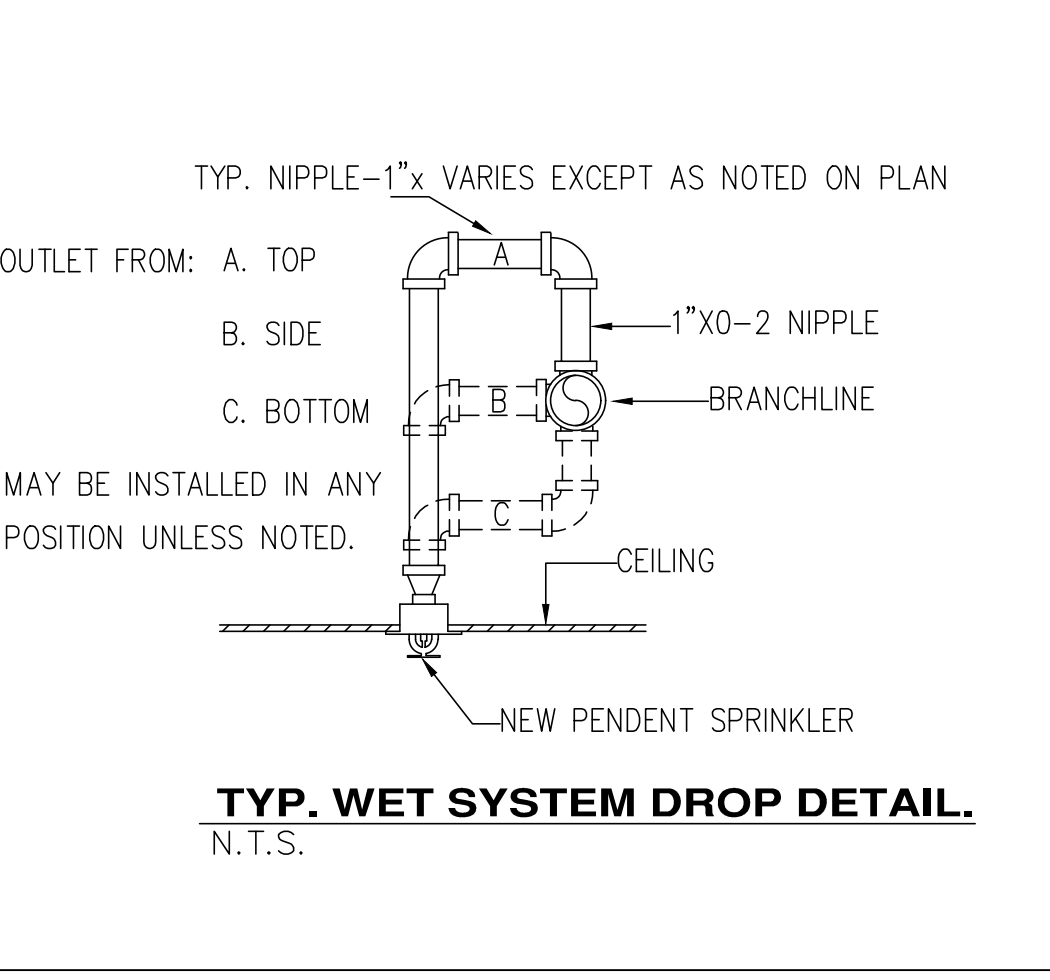
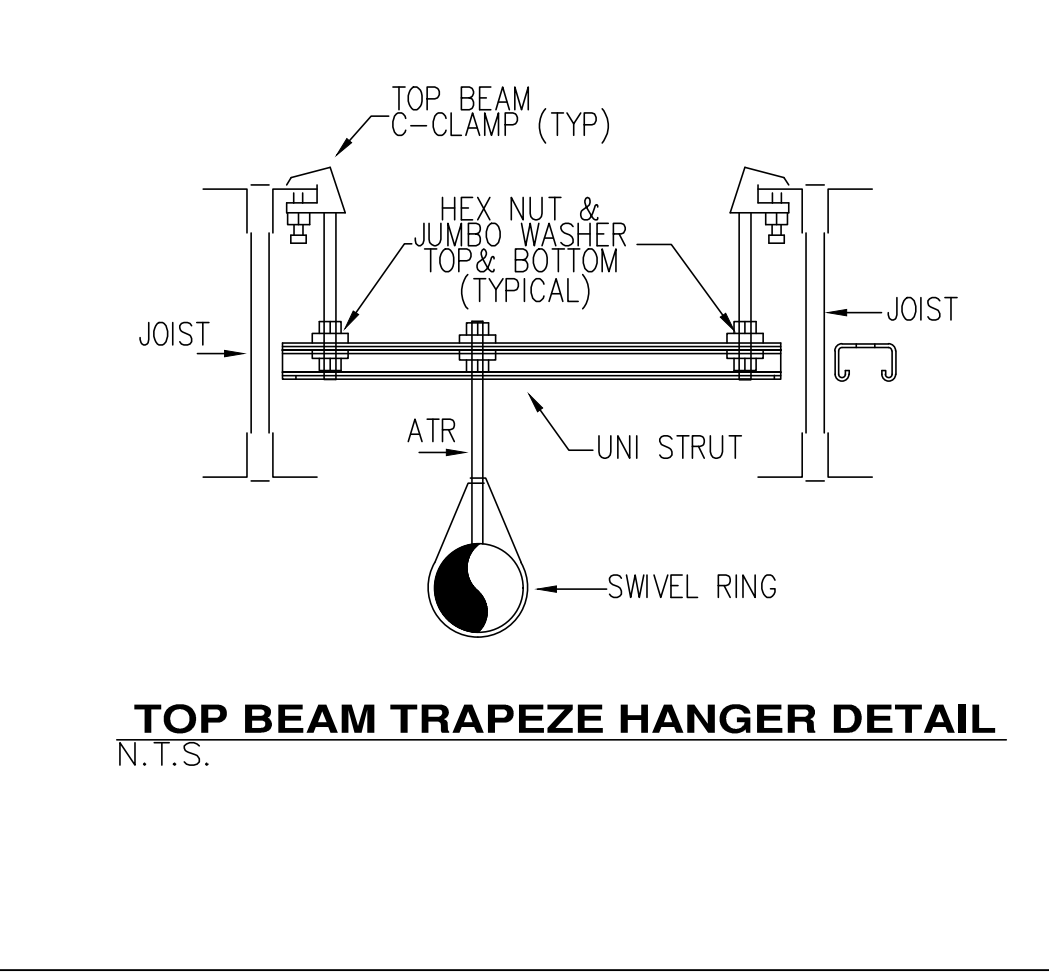
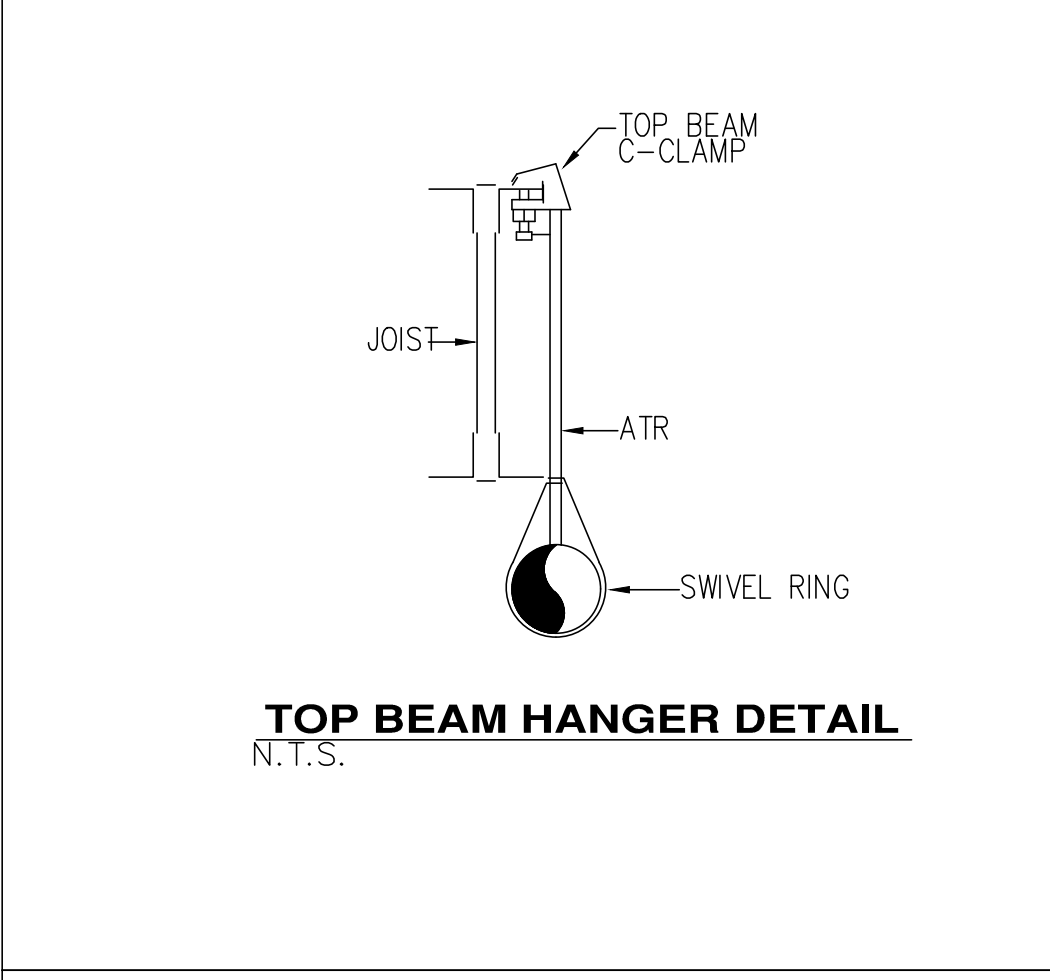
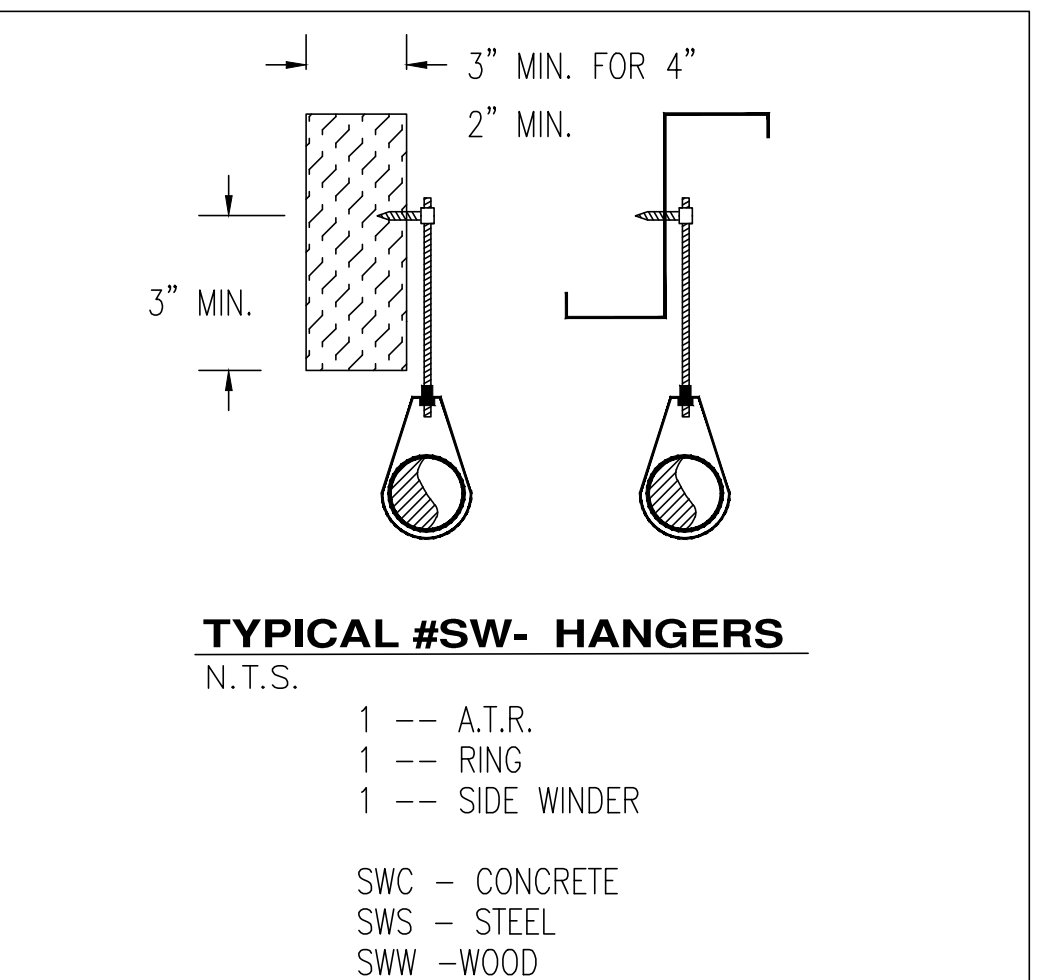
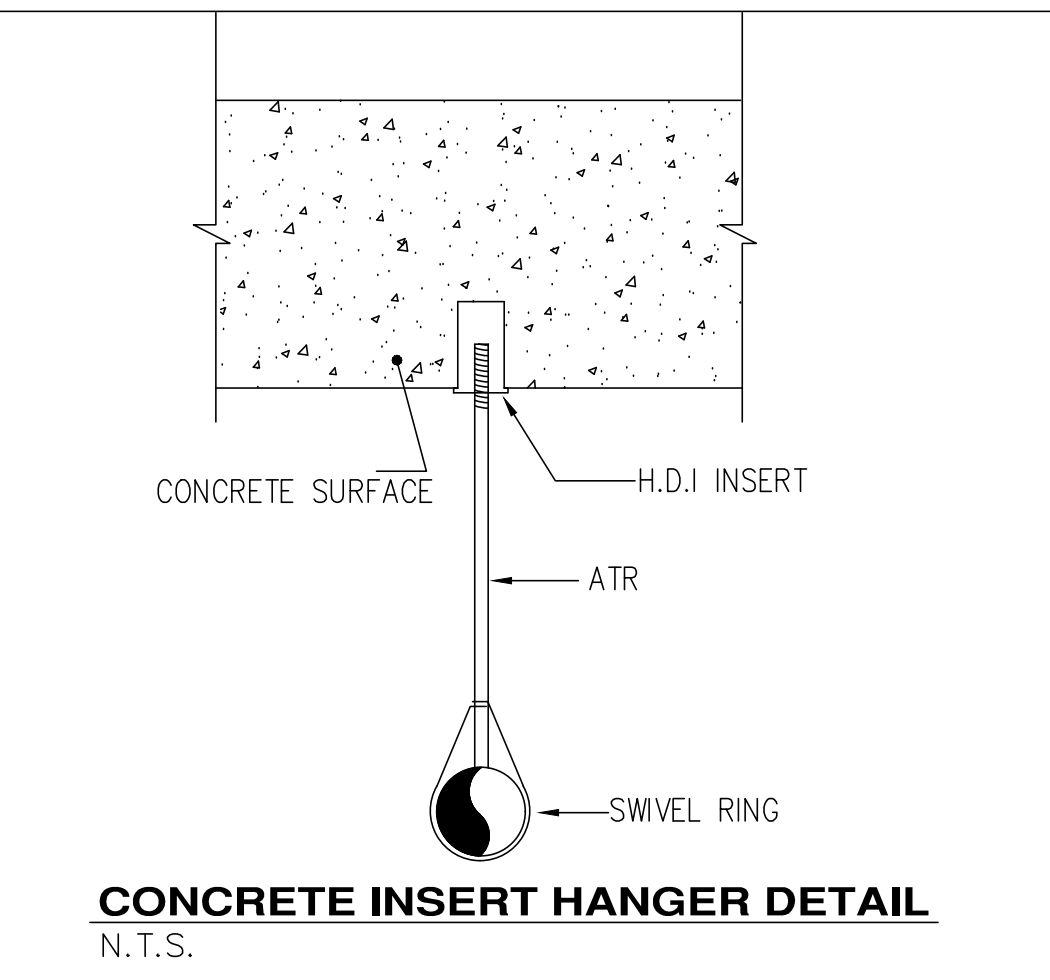
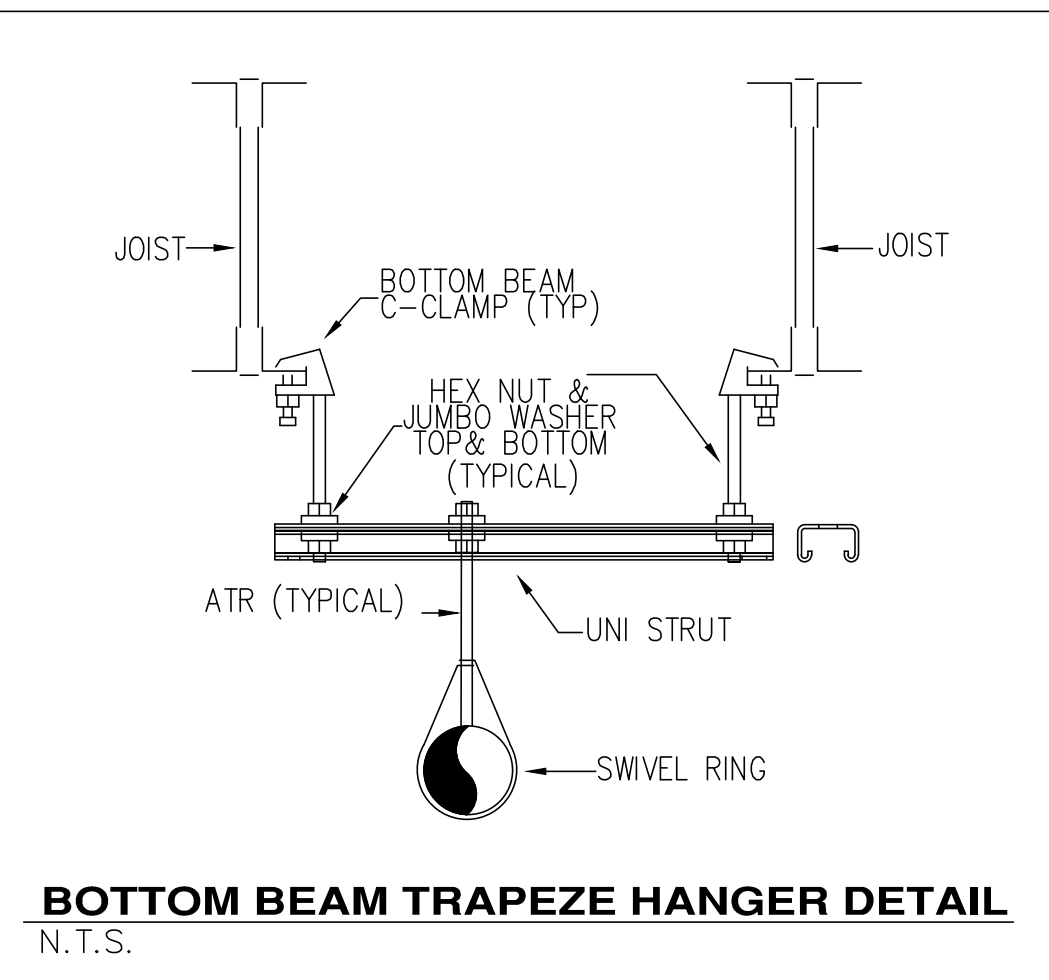
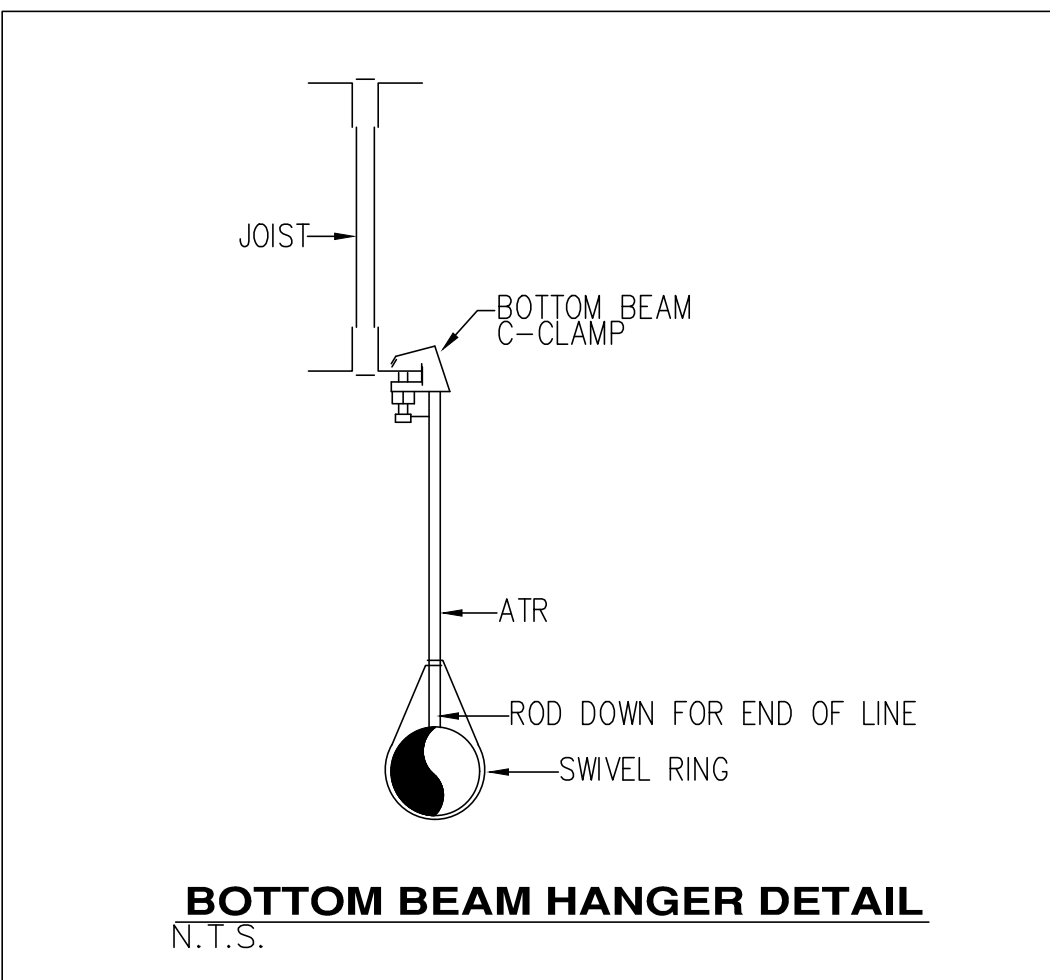
HANGER INSTALLATION REQUIREMENTS									
STEEL PIPE (10/40)	1/2"-3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
MAXIMUM DISTANCE	10' 0"	12' 0"	12' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"

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 THREADED ROD IS NOT TO BE BENT OR FORMED.

SHEET INDEX - FIRE PROTECTION	
Sheet Number	Sheet Name
FP01	FIRE PROTECTION LEAD SHEET, TITLE & DETAIL
FP02	PUMP ROOM DETAIL
FP03	HYDRAULIC SITE PLAN
FP04	BUILDING SECTIONS (FOR REFERENCE ONLY)
FP11	AREA-100 FIRE SPRINKLER OVER HEAD PIPING PLAN
FP12	AREA-200 FIRE SPRINKLER OVER HEAD PIPING PLAN
FP13	AREA-300 FIRST FLOOR FIRE SPRINKLER OVER HEAD PIPING PLAN
FP14	AREA-400 FIRE SPRINKLER OVER HEAD PIPING PLAN
FP15	AREA-500 FIRE SPRINKLER OVER HEAD PIPING PLAN
FP16	AREA-300 SECOND FLOOR FIRE SPRINKLER OVER HEAD PIPING PLAN
FP17	AREA-600 FIRE SPRINKLER OVER HEAD PIPING PLAN
FP21	AREA-100 FIRE SPRINKLER REFLECTED CEILING PLAN
FP22	AREA-200 FIRE SPRINKLER REFLECTED CEILING PLAN
FP23	AREA-300 FIRST FLOOR FIRE SPRINKLER REFLECTED CEILING PLAN
FP24	AREA-400 FIRE SPRINKLER REFLECTED CEILING PLAN
FP25	AREA-500 FIRE SPRINKLER REFLECTED CEILING PLAN
FP26	AREA-300 SECOND FLOOR FIRE SPRINKLER REFLECTED CEILING PLAN
FP27	AREA-600 FIRE SPRINKLER REFLECTED CEILING PLAN



**ZONE MAP**



WATER FLOW INFORMATION			
DATE OF TEST:	10/7/2020	CITY OR COUNTY:	FUQUAY VARINA
CITY OR COUNTY:	FUQUAY VARINA	DATA USE IN HYDRAULIC CALCULATION	
STREET ADDRESS:	BETTS RD. & NC 42		
ELEVATION:	N/A		
STATIC PRESSURE:	68 PSI	58 PSI (-10 PSI)	
RESIDUAL PRESSURE:	60 PSI	50 PSI (-10 PSI)	
FLOW GPM:	840 GPM	756 GPM (-10%)	
PERSON TESTING:	JACKSON MAPLES		
TIME OF TEST:	1:00 PM		

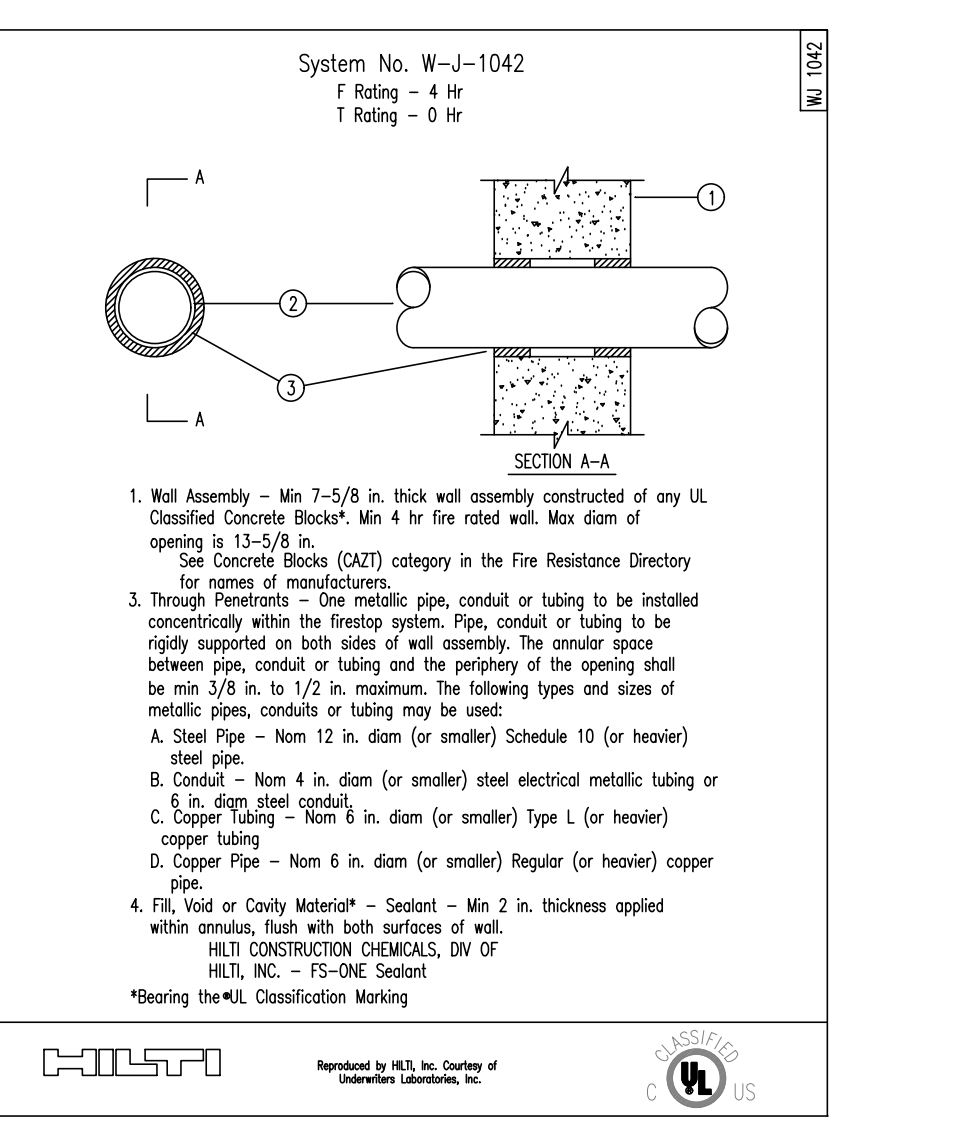
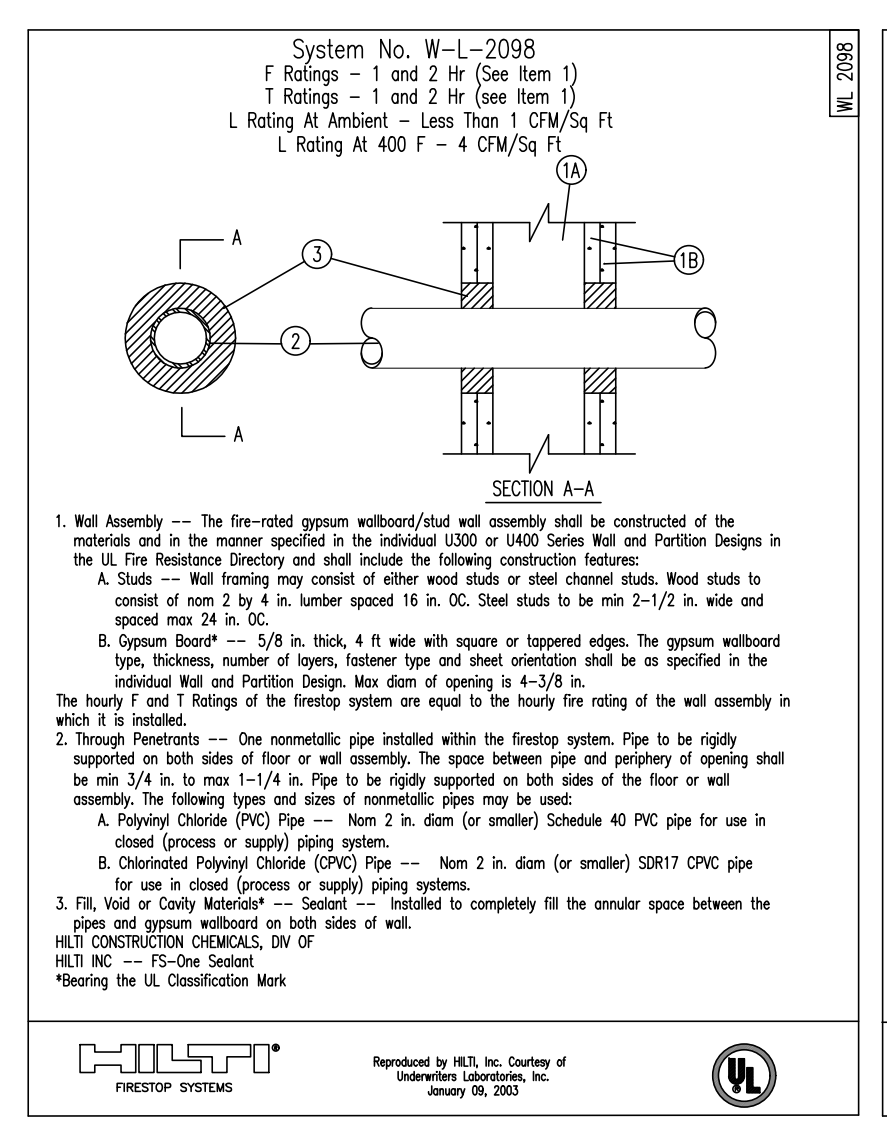
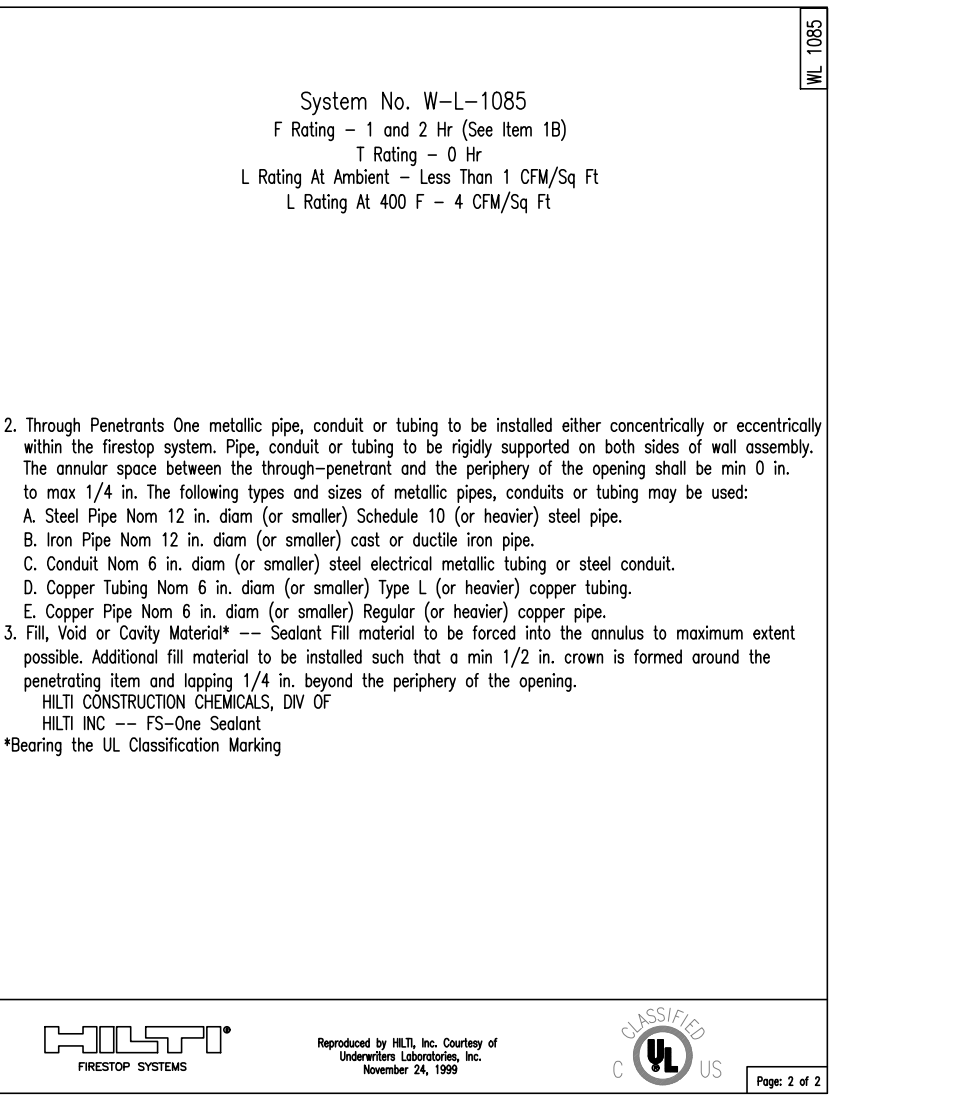
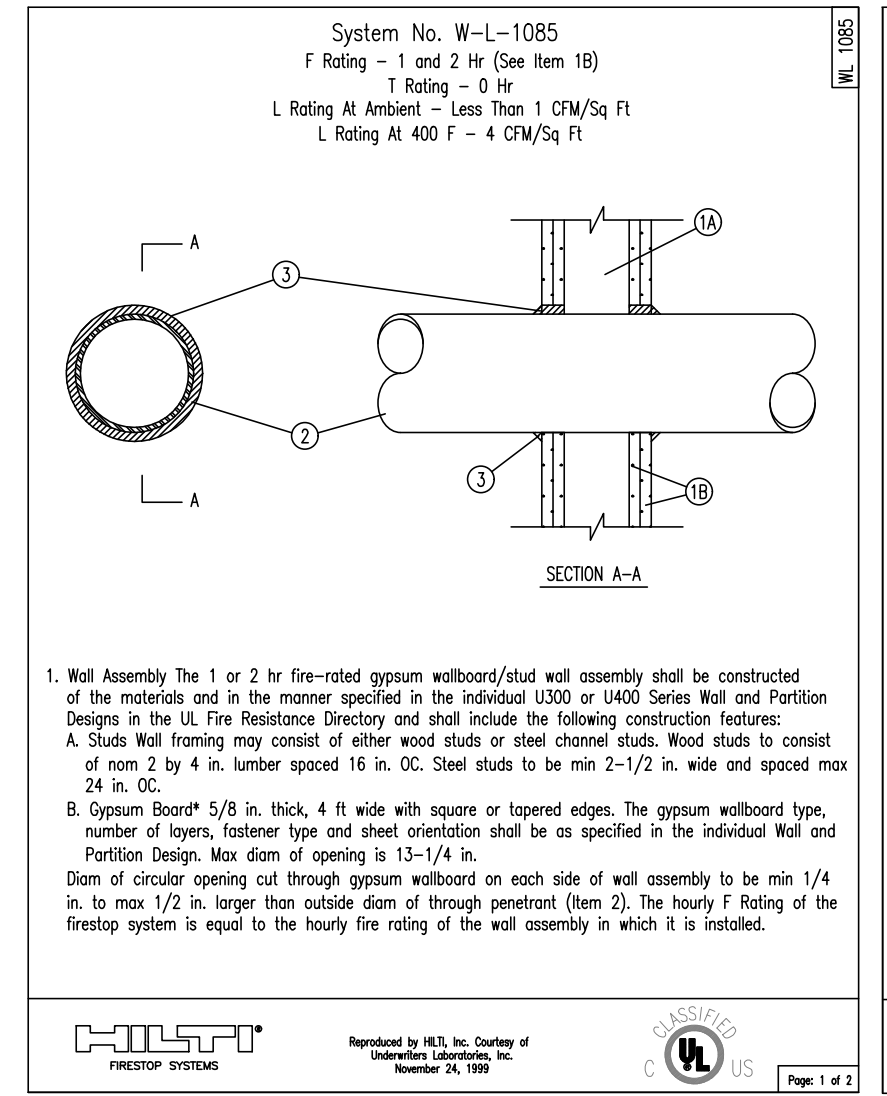
FIRE PUMP SCHEDULE					
GPM	PSI	HP	VOLTS	PHASE	REMARKS
500	40	20	460	3	VERTICAL IN-LINE PUMP
5	50	.5	460	3	IN-LINE VERTICAL PRESSURE MAINTENANCE PUMP

**Sprinkler Design Data**

Project Name:	NORTHWEST HARNETT ELEMENTARY SCHOOL	System:	2 WET SYSTEM
Project Street Address:	736 ROLLINS ROAD, FUQUAY VARINA, NC 27526	Sys. Sq. Ft.:	118,323
Suite#:	2	Floor#:	2
Designed By:	CHRISTY LAMSON	Phone:	(919) 868-4050
Occupancy:	EDUCATIONAL	Hazard:	LIGHT HAZARD
		Total Bldg. Hgt.:	46'-3"

**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 Zone-3
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	MUSIC 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	OH-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	130 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	.15 GPM	.1 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	H100	H100	H250	H100	H250	H100	H100	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
Special 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	53.452 PSI	45.198 PSI	48.547 PSI	41.517 PSI	46.173 PSI	44.260 PSI	43.130 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	FP12	FP12	FP17	FP12	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



**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

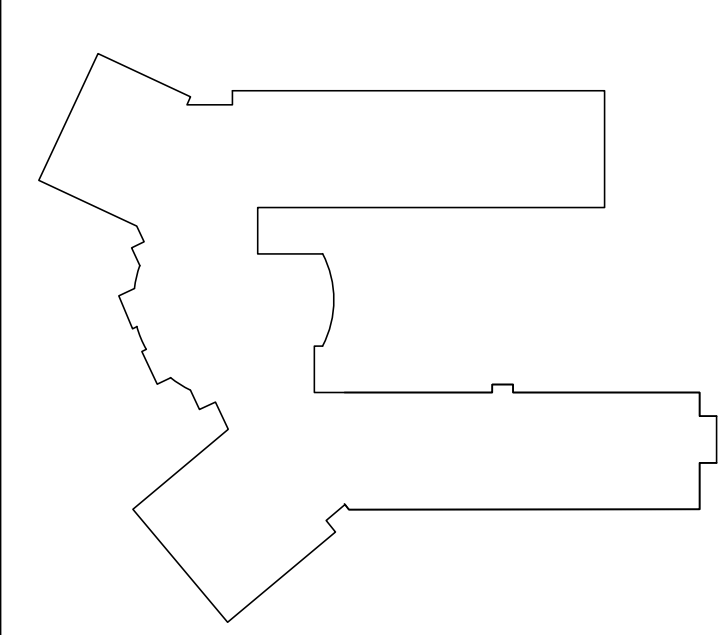
**ARCHITECT**  
SL+Architect  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Eelemtry 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**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



**ABL FIRE PROTECTION, LLC**  
300 HOKE STREET, RALEIGH  
NORTH CAROLINA 27601  
Phone: (919) 835-2225  
Fax: (919) 835-2210

Contractor Seal  
*Art K. Lamson, 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.

<b>DRAWN BY</b>	CHRISTY LAMSON
<b>DATE</b>	04/19/2022
<b>SCALE</b>	1/2" = 1'-0" UNO
<b>CONTRACT NO.</b>	4070

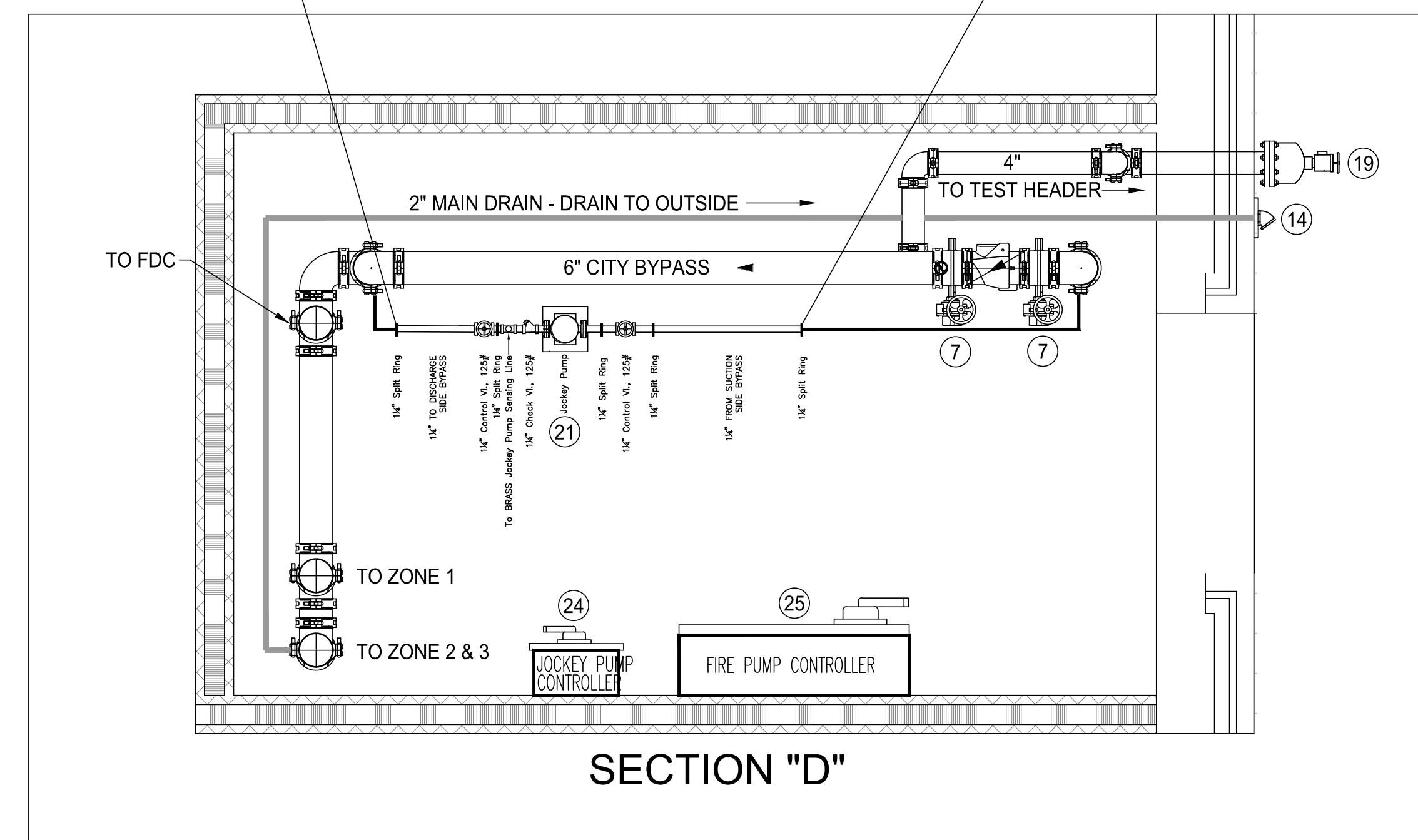
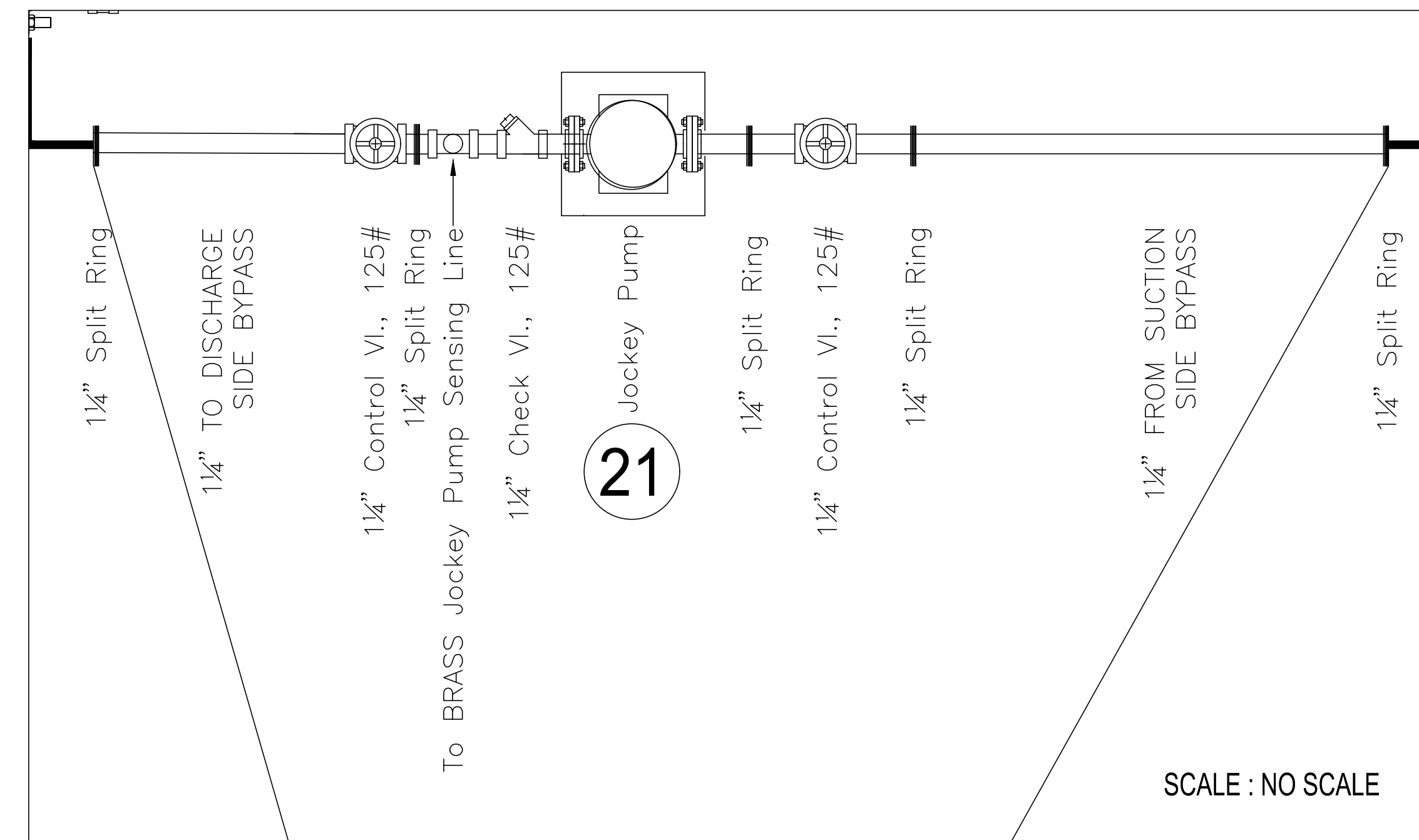
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

**SHEET TITLE**  
**TITLE & DETAILS**

**SHEET NUMBER**  
**FP01**

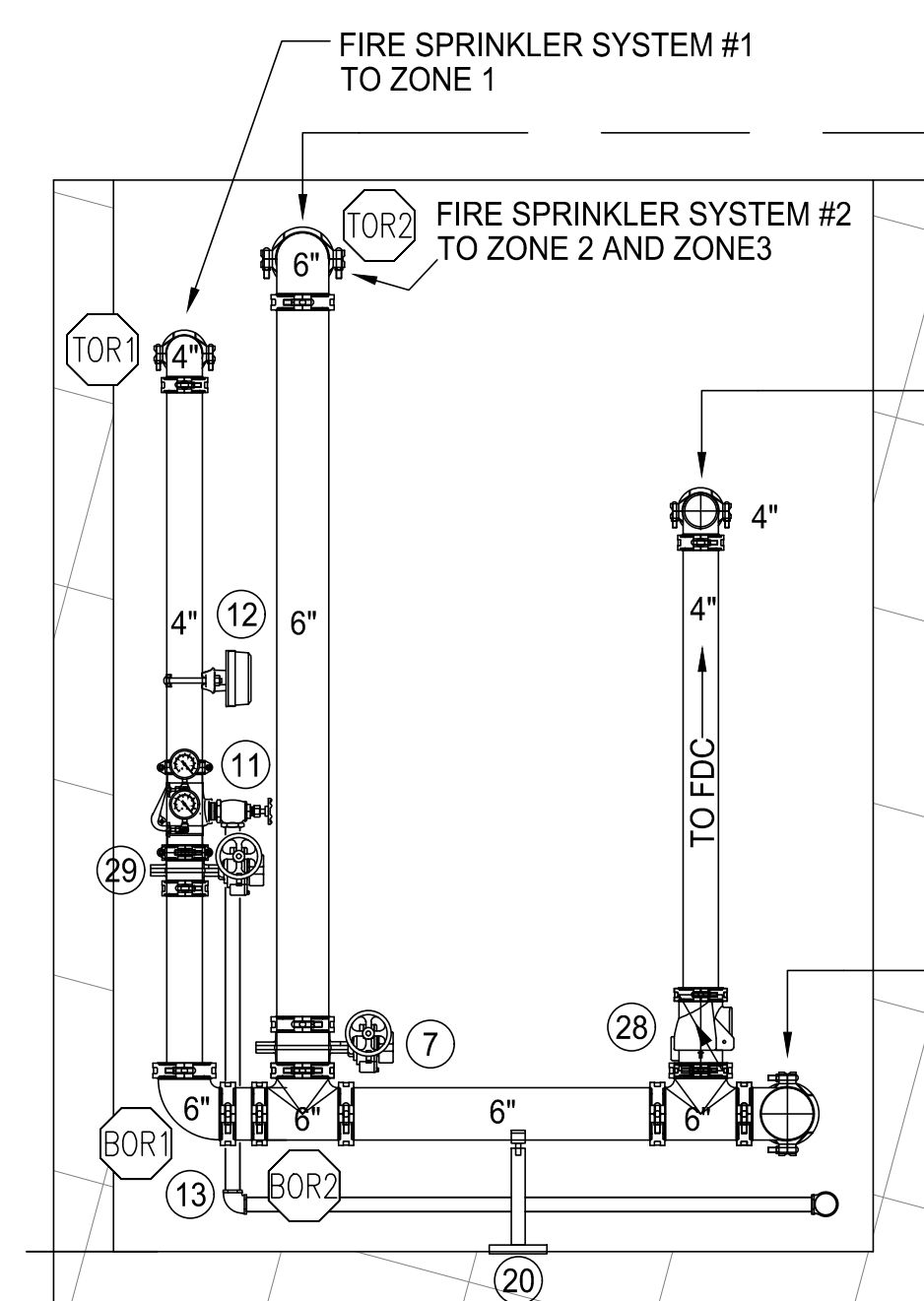
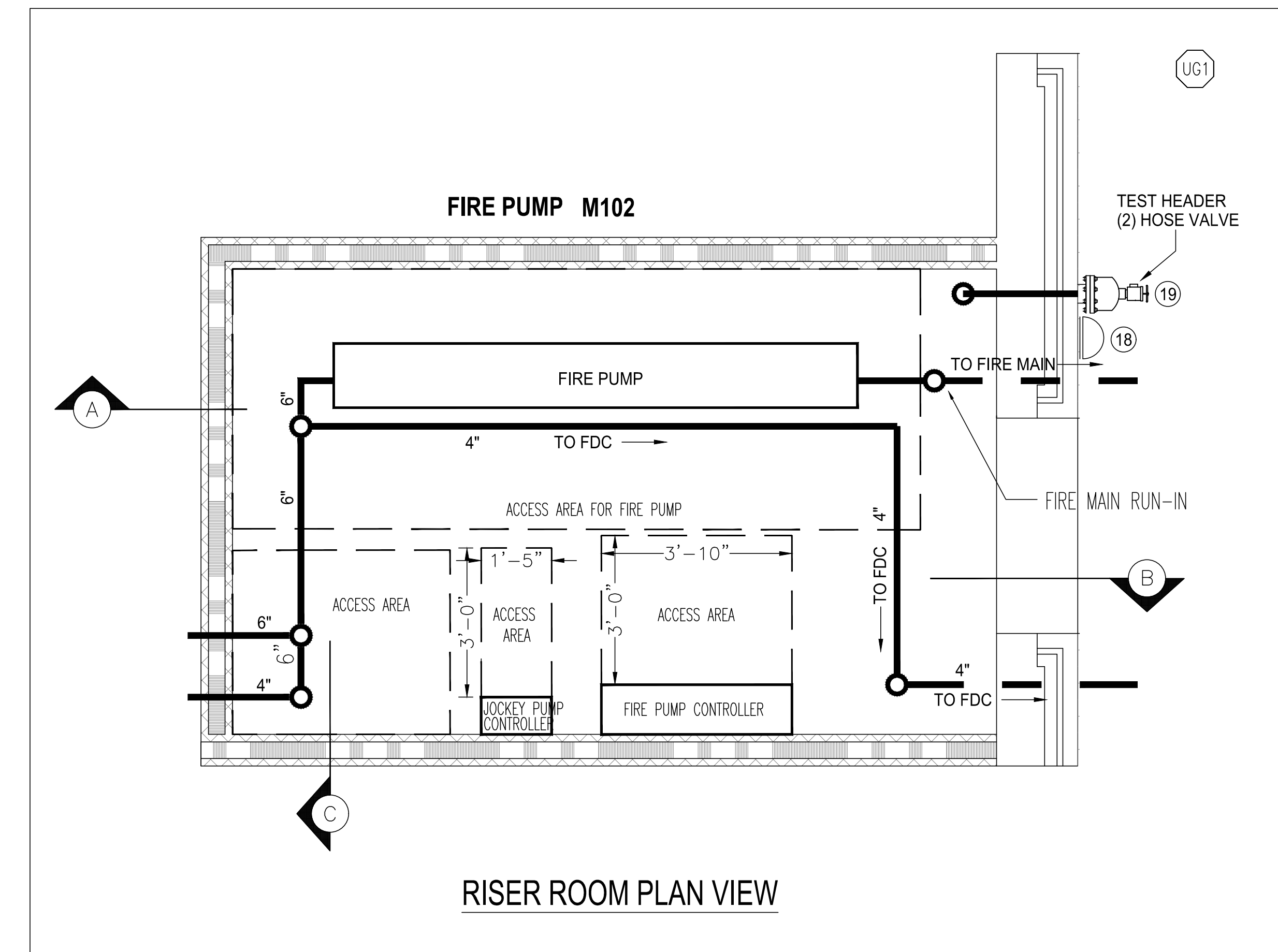
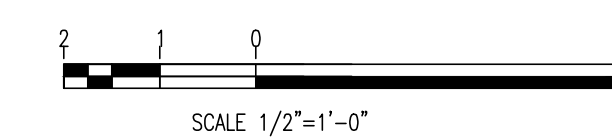
# RISER ROOM MATERIAL LIST

- 1 6" OS&Y GATE VALVE
- 2 6"x4" ECCENTRIC REDUCER ON SUCTION SIDE OF PUMP
- 3 FAIRBANKS 4"x4" 1591CF VERTICAL IN-LINE FIRE PUMP  
500 GPM @ 40 PSI
- 4 4" SUCTION CONTROL VALVE (CAL-VAL MODEL 50B-5KG)
- 5 4"x6" CONCENTRIC REDUCER ON DISCHARGE SIDE OF PUMP
- 6 6" SWING CHECK VALVE W/RESILIENT SEAT
- 7 6" NORMALLY OPEN BUTTERFLY VALVE WITH TAMPER SWITCH
- 8 6" NORMALLY CLOSED BUTTERFLY VALVE WITH TAMPER SWITCH
- 9 FLOW METER BYPASDS - TO TEST HEADER(S)
- 10 6" SWING CHECK VALVE
- 11 4" RISER CHECK VALVE WITH PRESSURE GAUGES
- 12 4" FLOW SWITCH
- 13 2" SYSTEM DRAIN TO FLOOR AND CONTROL VALVE
- 14 2" MAIN DRAIN DISCHARGE OUTSIDE
- 15 FLANGED
- 16 SPARE HEAD CABINET (12 CAPACITY) w/ WRENCH
- 17 AS BUILT DRAWING IN PVC TUBE
- 18 ELECTRIC BELL
- 19 4" FIRE PUMP TEST HEADER; (2) HOSE VALVE
- 20 PIPE STAND
- 21 JOCKEY PUMP: FAIRBANKS MORSE PVM1-5: 5 GPM @ 50 PSI, .5HP - 3/60/460 VOLT  
JOCKEY PUMP CONTROL: EATON XTJP-.5D
- 22 1-1/4" PIPING TO/FROM JOCKEY PUMP
- 23 1/2" BRASS PIPING TO FIRE PUMP CONTROLLER (SENSING LINE)
- 24 JOCKEY PUMP CONTROLLER
- 25 "SOFT-START" FIRE PUMP CONTROLLER
- 26 3" x 1'-0 1/2" FxF SCH-40 PIPE
- 27 4" NORMALLY CLOSED BUTTERFLY VALVE WITH TAMPER SWITCH
- 28 4" SWING CHECK VALVE
- 29 4" NORMALLY OPEN BUTTERFLY VALVE WITH TAMPER SWITCH

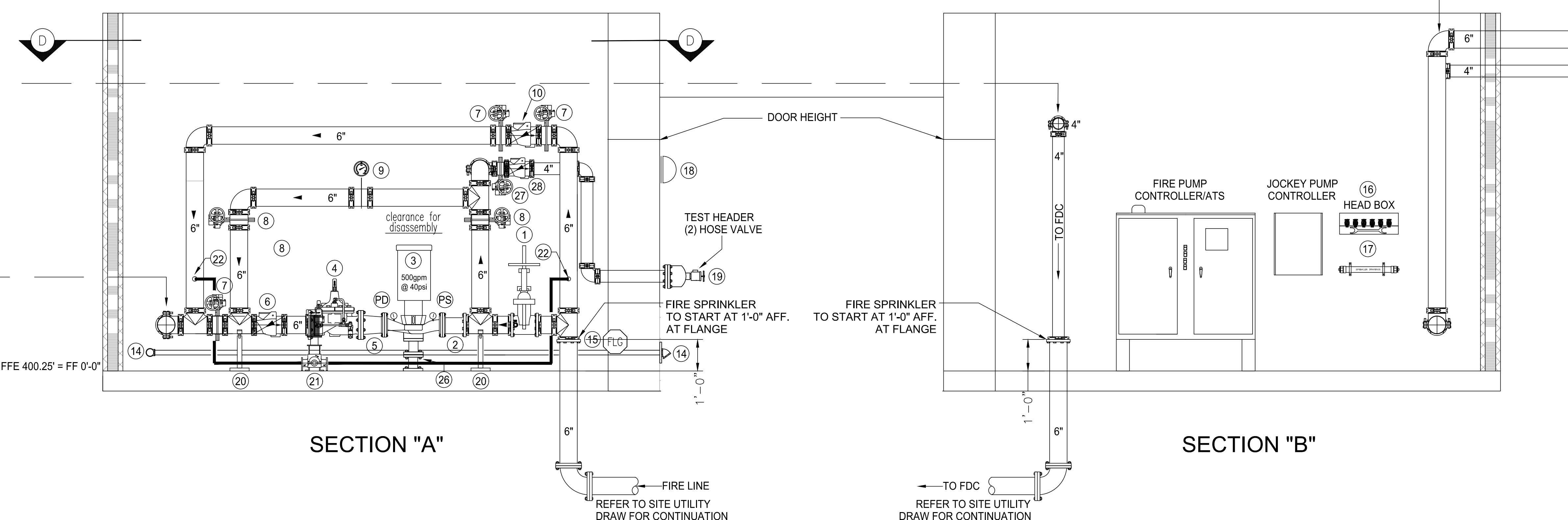


# SPRINKLER RISER ROOM

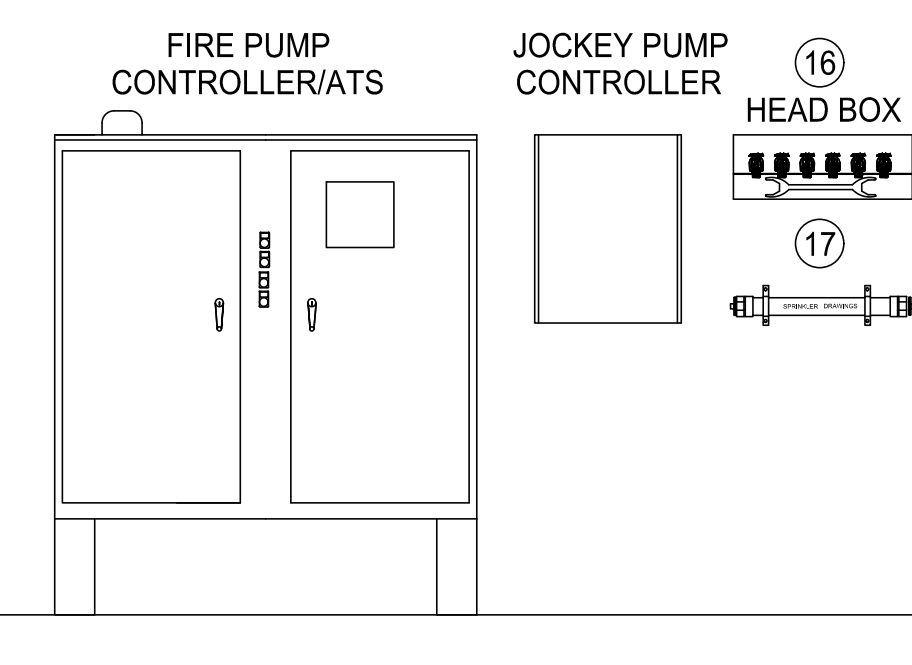
SCALE 1/2" = 1'-0" UNO



SECTION "C"



SECTION "A"



SECTION "B"

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

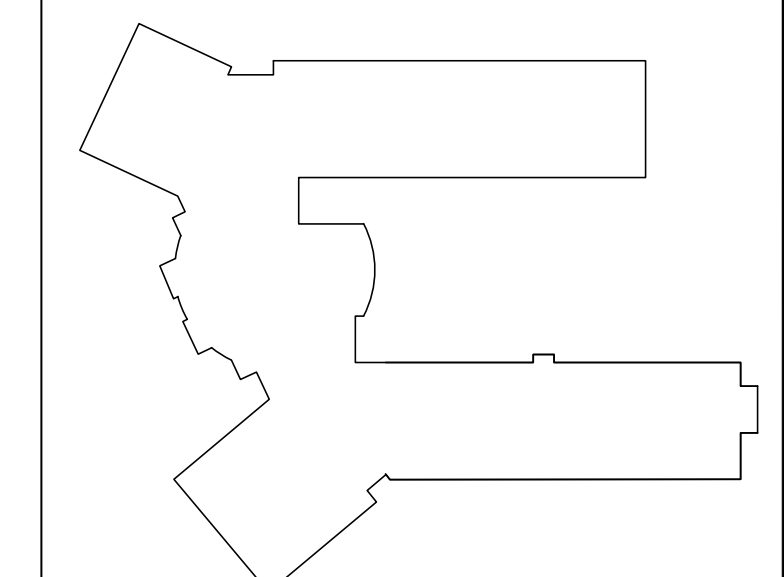
ARCHITECT  
**SFL+Architect**  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

Job Site Address  
**Northwest Harnett Elementary School**  
736 Rollins Road,  
Fuquay-Varina, NC 27526

Job Site Contact  
**METCON**  
Malarie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

Authority Having Jurisdiction  
**Fuquay-Varina Fire Marshall**

Fire Protection Contact  
**ABL Fire Protection, LLC**  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



KEYPLAN



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.*  
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	1/2" = 1'-0" UNO
SPRINKLERS ON JOBS	
CONTRACT NO.	4070

DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**RISER ROOM DETAILS**

SHEET NUMBER  
**FP02**

**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

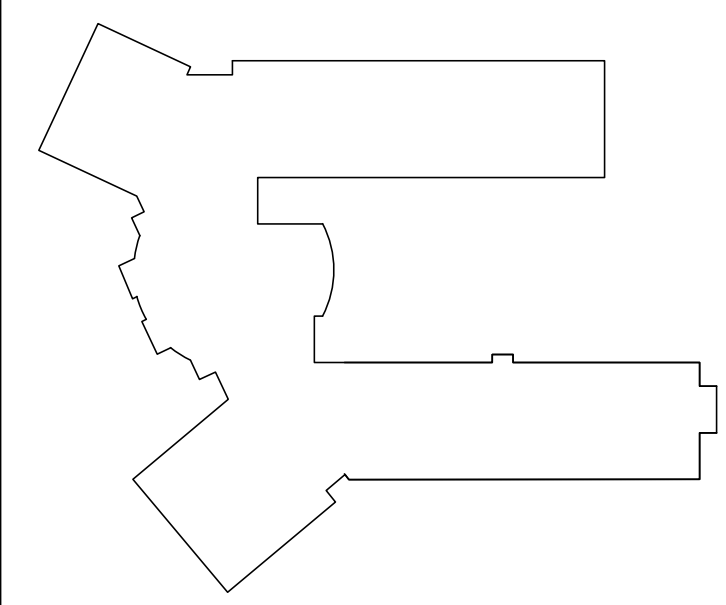
**ARCHITECT**  
**SFL+Architexch**  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
**Northwest Harnett Elementary School**  
736 Rollins Road,  
Fuquay-Varina, NC 27526

**Job Site Contact**  
**METCON**  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
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**Authority Having Jurisdiction**  
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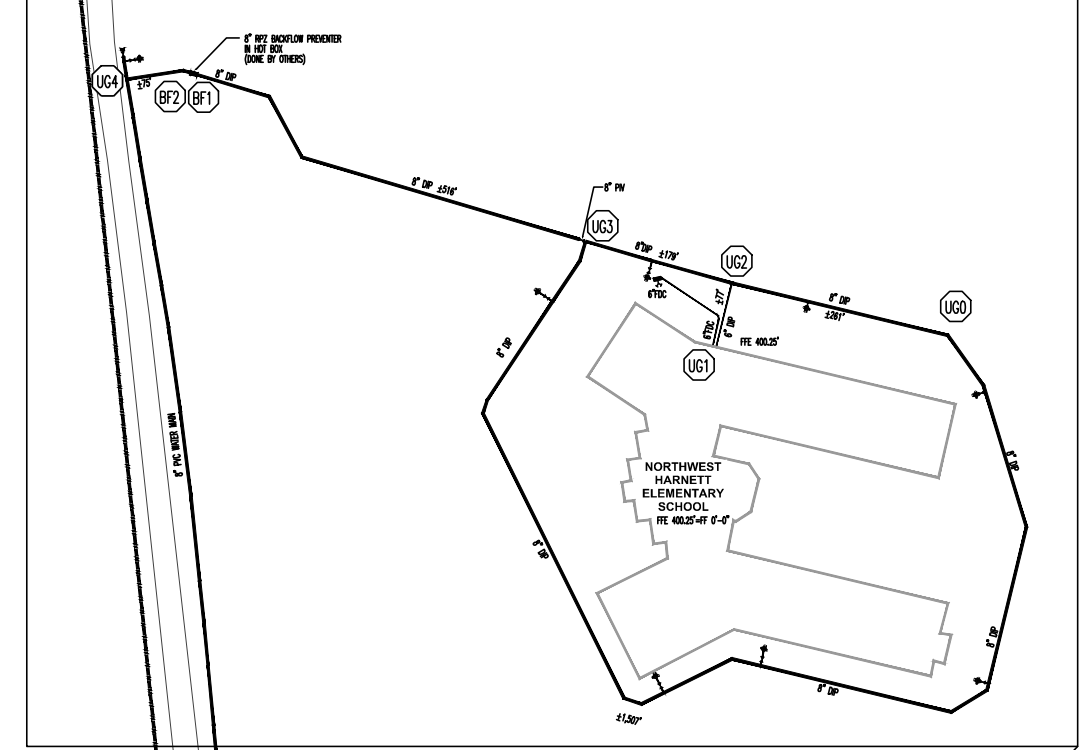
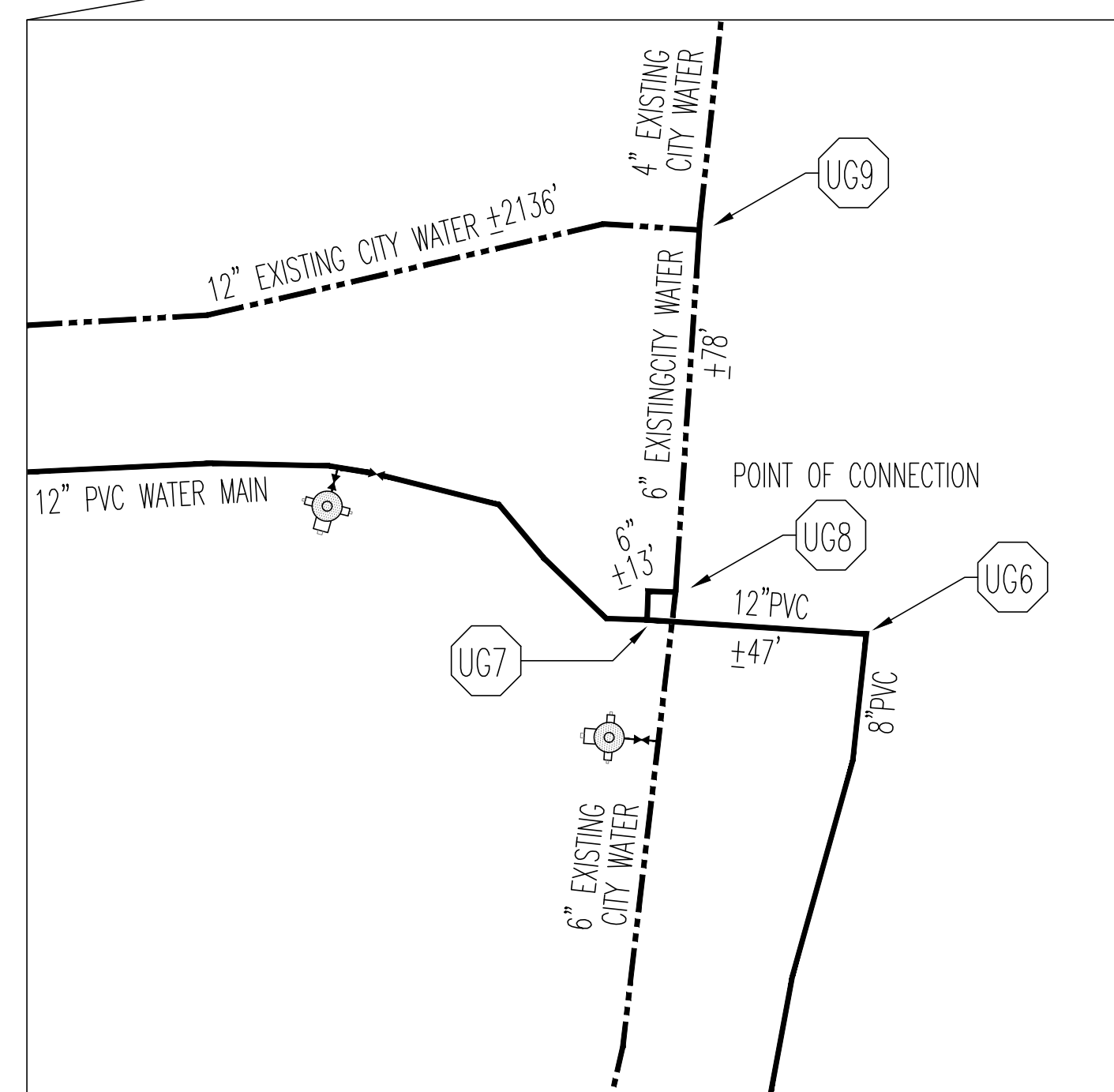
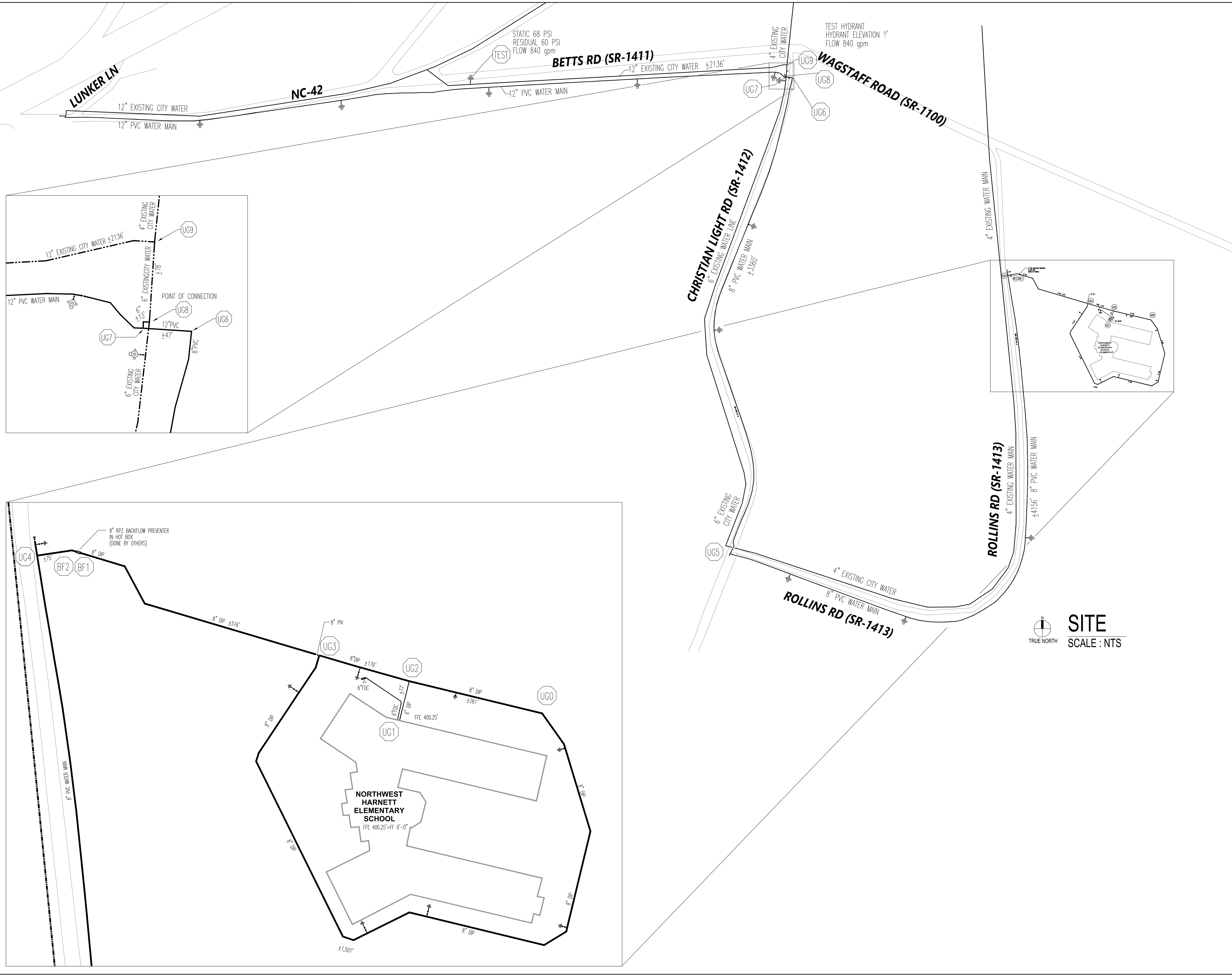
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DATE	04/19/2022
SCALE	1/2" = 1'-0" UNO
SPRINKLERS ON JOBS	*
CONTRACT NO.	4070

DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

**SHEET TITLE**  
**HYDRAULIC  
SITE PLAN**

**SHEET NUMBER**  
**FP03**



TRUE NORTH  
SCALE : NTS

Harnett County School  
Northwest Harnett  
Elementary School

736 Rollins Road,  
Fuquay Varina, NC 27526

Owner or Occupant  
**Harnett County School**  
Dr. Aaron Fleming  
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Lillington, NC 27546  
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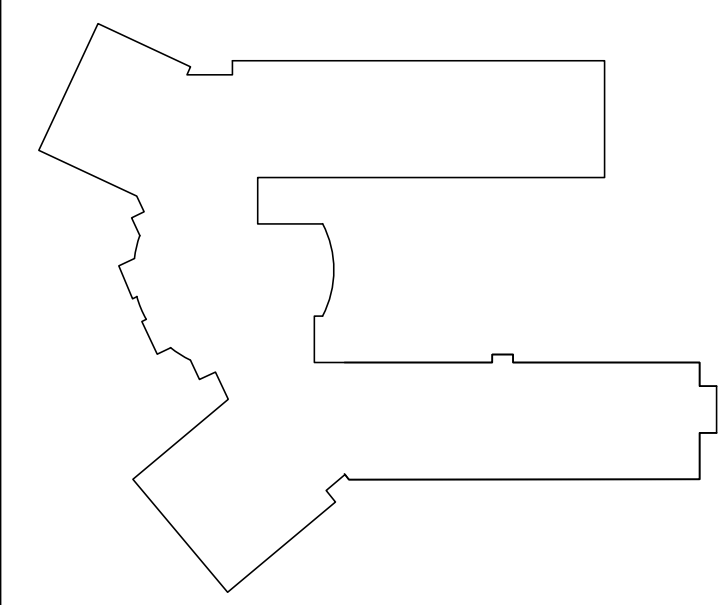
ARCHITECT  
**SL+A Architetech**  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

Job Site Address  
**Northwest Harnett Eelemtry School**  
736 Rollins Road,  
Fuquay-Varina, NC 27526

Job Site Contact  
**METCON**  
Malanie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
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Authority Having Jurisdiction  
**Fuquay-Varina Fire Marshall**

Fire Protection Contact  
**ABL Fire Protection, LLC**  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



KEYPLAN



**ABL FIRE PROTECTION, LLC**  
300 HOKE STREET, RALEIGH  
NORTH CAROLINA 27601  
Phone: (919) 835-2225  
Fax: (919) 835-2210

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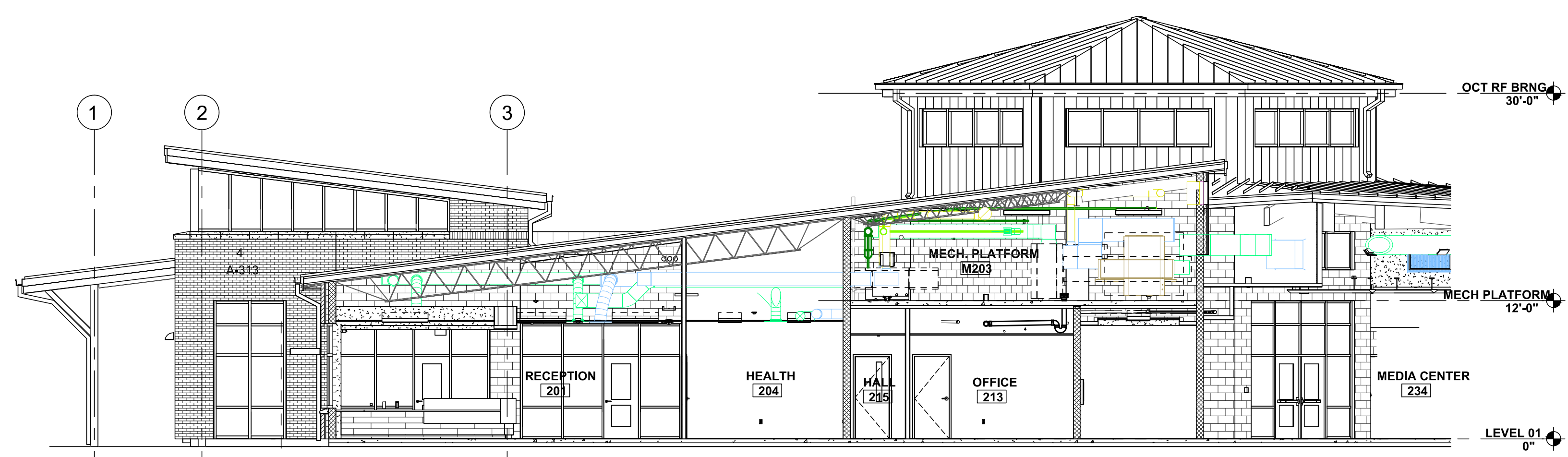
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DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/8" = 1'-0" UNO
SPRINKLERS ON JOBS	
CONTRACT NO.	4070

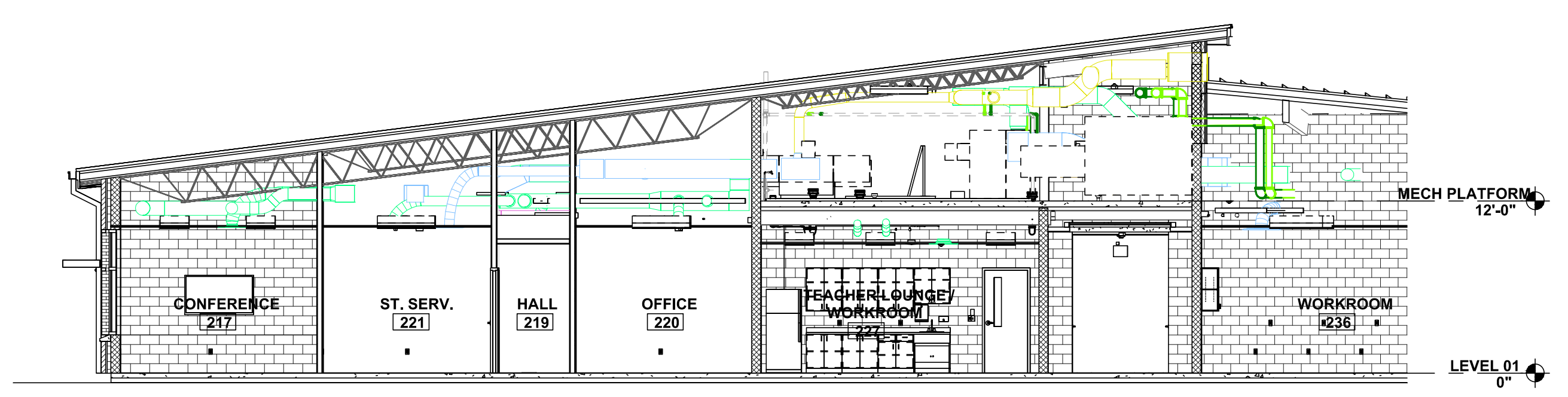
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**BUILDING SECTIONS**

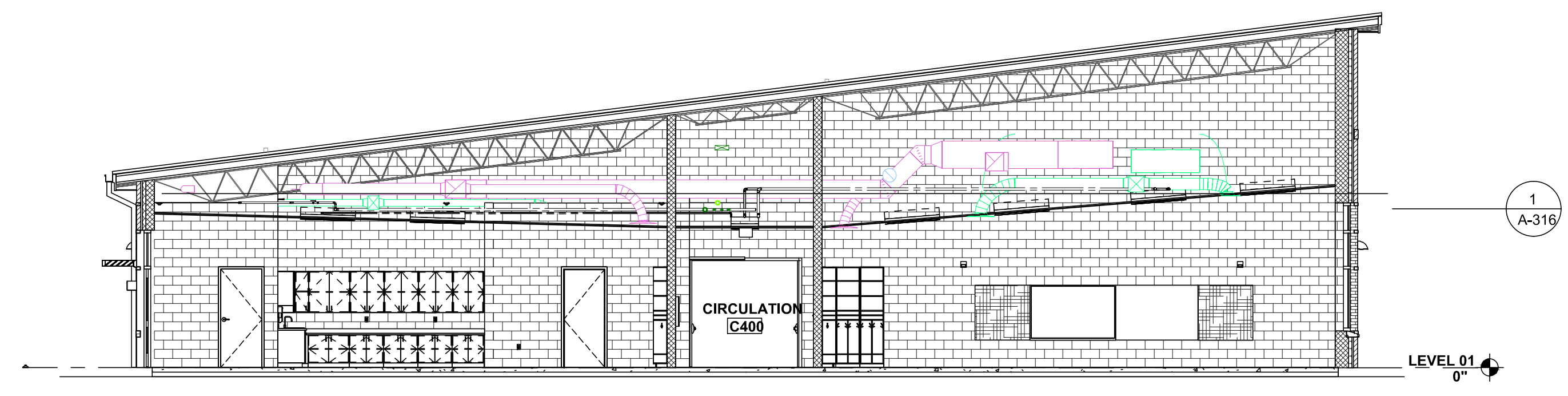
SHEET NUMBER  
**FP04**



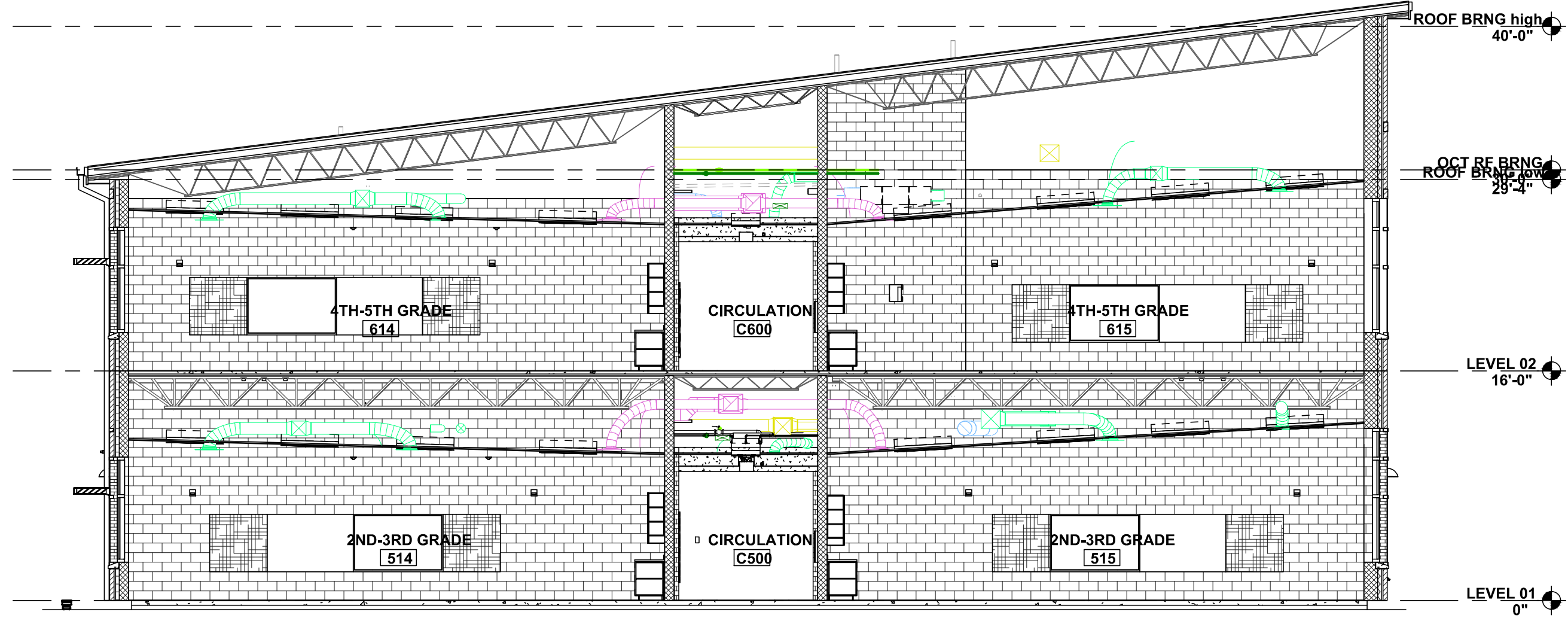
**3 BUILDING SECTION - RECEPTION / ADMIN**  
A-301 SCALE: 1/8" = 1'-0"  
FOR REFERENCE ONLY BUILDING SECTIONS - AREA 100/200 **A-301**



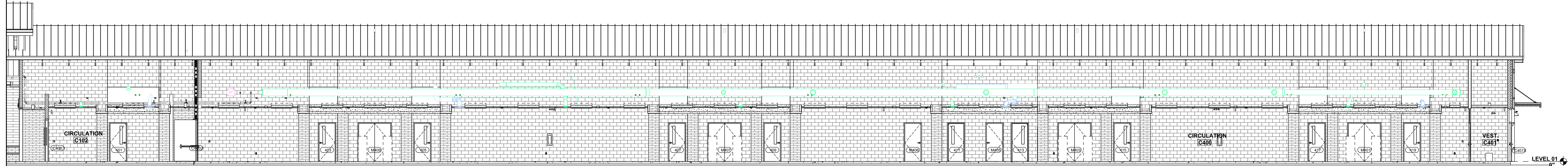
**4 AREA 200 - GUIDANCE**  
A-301 SCALE: 1/8" = 1'-0"  
FOR REFERENCE ONLY BUILDING SECTIONS - AREA 100/200 **A-301**



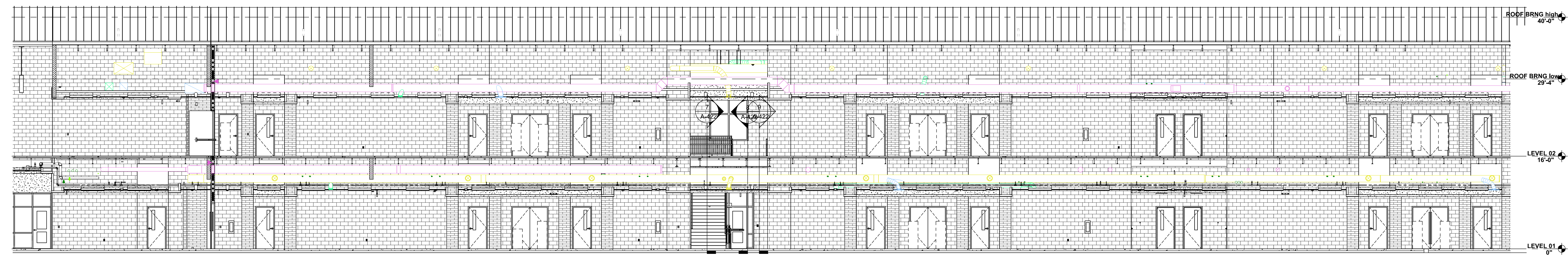
**4 CLASSROOM - 1 STORY**  
A-303 SCALE: 1/8" = 1'-0"  
FOR REFERENCE ONLY BUILDING SECTIONS - CLASSROOMS **A-303**



**2 CLASSROOM 2 STORY - TEACHING WALL**  
A-303 SCALE: 1/8" = 1'-0"  
FOR REFERENCE ONLY BUILDING SECTIONS - CLASSROOMS **A-303**



**5 BUILDING SECTION - CIRCULATION C400**  
A-303 SCALE: 1/8" = 1'-0"  
FOR REFERENCE ONLY BUILDING SECTIONS - CLASSROOMS **A-303**



**1 Section 2 STORY CLASSROOM**  
A-303 SCALE: 1/8" = 1'-0"  
FOR REFERENCE ONLY BUILDING SECTIONS - CLASSROOMS **A-303**

**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

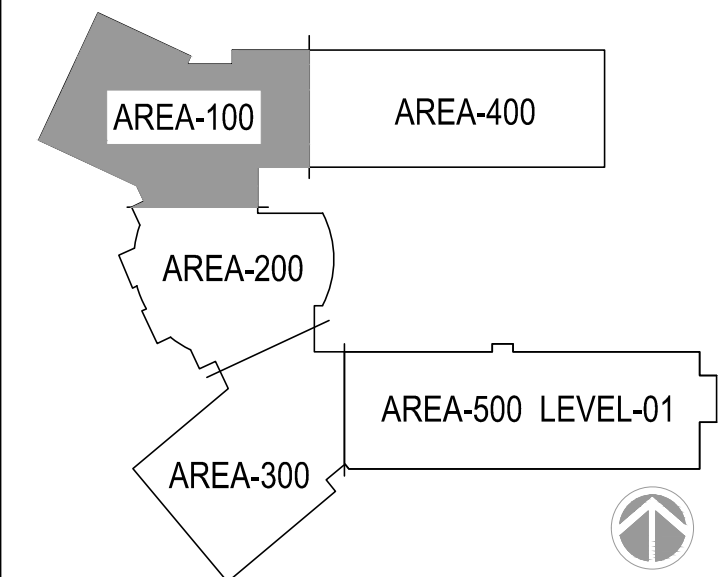
**ARCHITECT**  
SL+ Architects  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
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Fuquay-Varina, NC 27526

**Job Site Contact**  
METCON  
Malanie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

**Authority Having Jurisdiction**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



**KEYPLAN**



**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.*  
Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS

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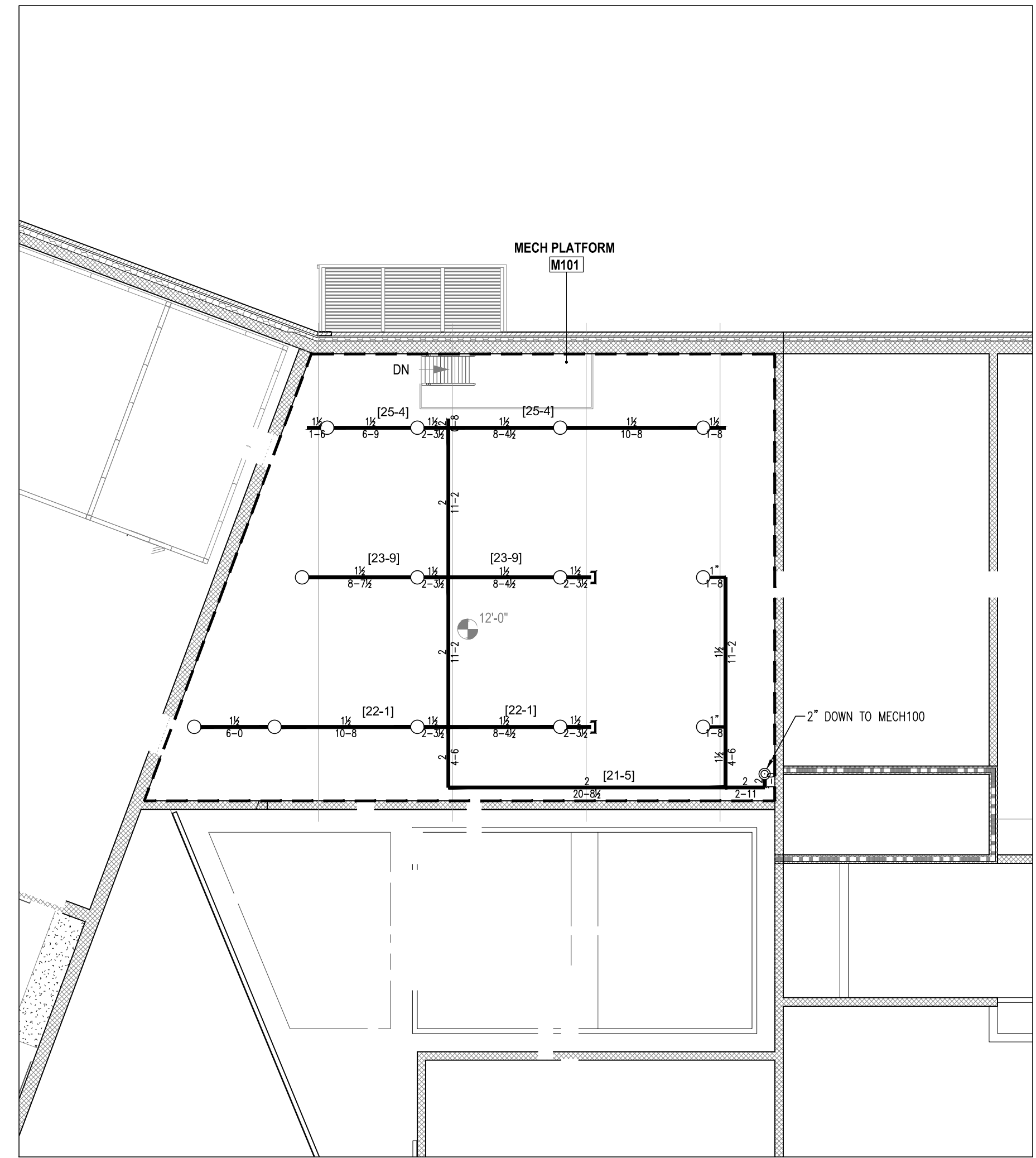
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<b>DRAWN BY</b>	CHRISTY LAMSON
<b>DATE</b>	04/19/2022
<b>SCALE</b>	1/8" = 1'-0" UNO
<b>SPRINKLERS ON JOBS</b>	979
<b>CONTRACT NO.</b>	4070

DESCRIPTION	REV DATE	BY
1 SUBMITTAL DRAWING	04/28/22	CL

**SHEET TITLE**  
AREA 100  
FIRE SPRINKLER  
OVER HEAD PIPING  
PLAN

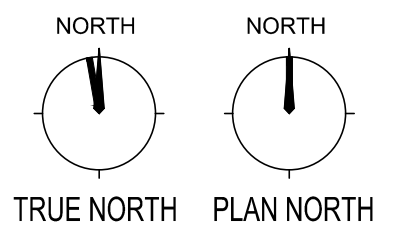
**SHEET NUMBER**  
FP11



**AREA 100 MEZZANINE - FIRE SPRINKLER OVER HEAD PIPING PLAN**  
SCALE 1/8" = 1'-0"



**AREA 100 - FIRE SPRINKLER OVER HEAD PIPING PLAN**  
SCALE 1/8" = 1'-0"



TYPES OF SPRINKLERS OR EQUAL										
SYM.	MAKE	MODEL	SIN. NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUICHEON	QUAN.
●	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
○	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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
<b>TOTAL AMOUNT FOR LEVEL-1:</b>										699

**FIRE SPRINKLERS LEGEND:**

- Hydraulic Reference Points
- 4 PT-IN Elev. Above Finished Floor
- 10 PT-IN Ceiling Height
- Denotes Hanger Location
- 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  
Dr. Aaron Fleming  
1008 South 11th Street,  
Lillington, NC 27546  
(919) 573-6350

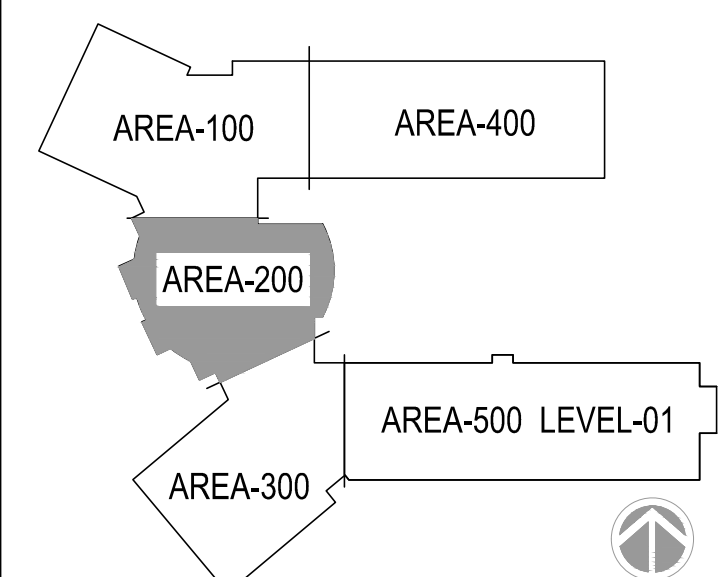
**ARCHITECT**  
SFL+Architect  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Elementary School  
736 Rollins Road,  
Fuquay-Varina, NC 27526

**Job Site Contact**  
METCON  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

**Authority Having Jurisdiction**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
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Design: Christy Lamson  
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KEYPLAN



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Contractor Seal

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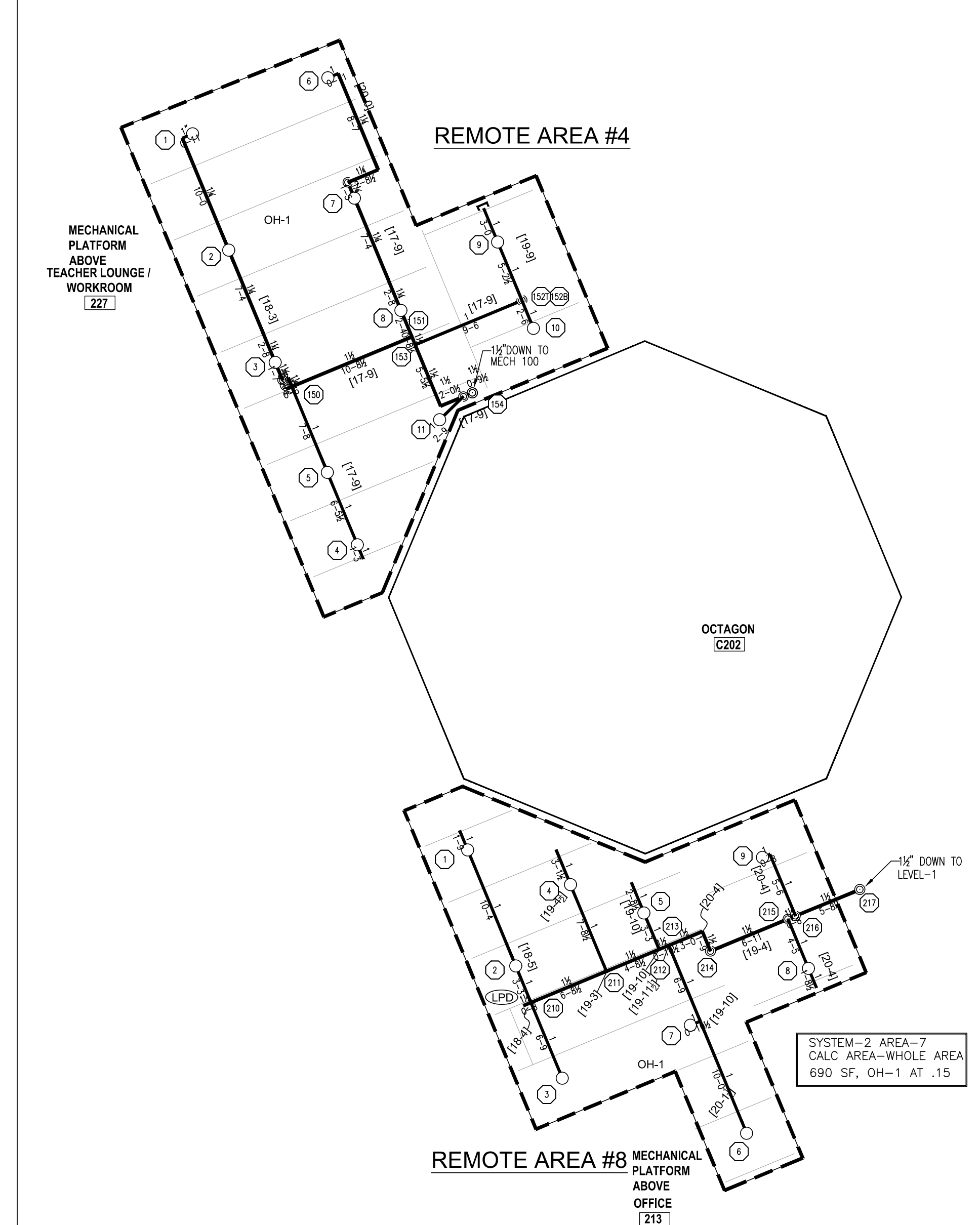
DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

DESCRIPTION	REV DATE	BY
1 SUBMITTAL DRAWING	04/28/22	CL

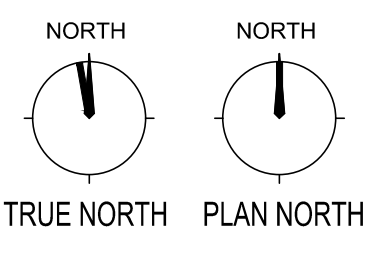
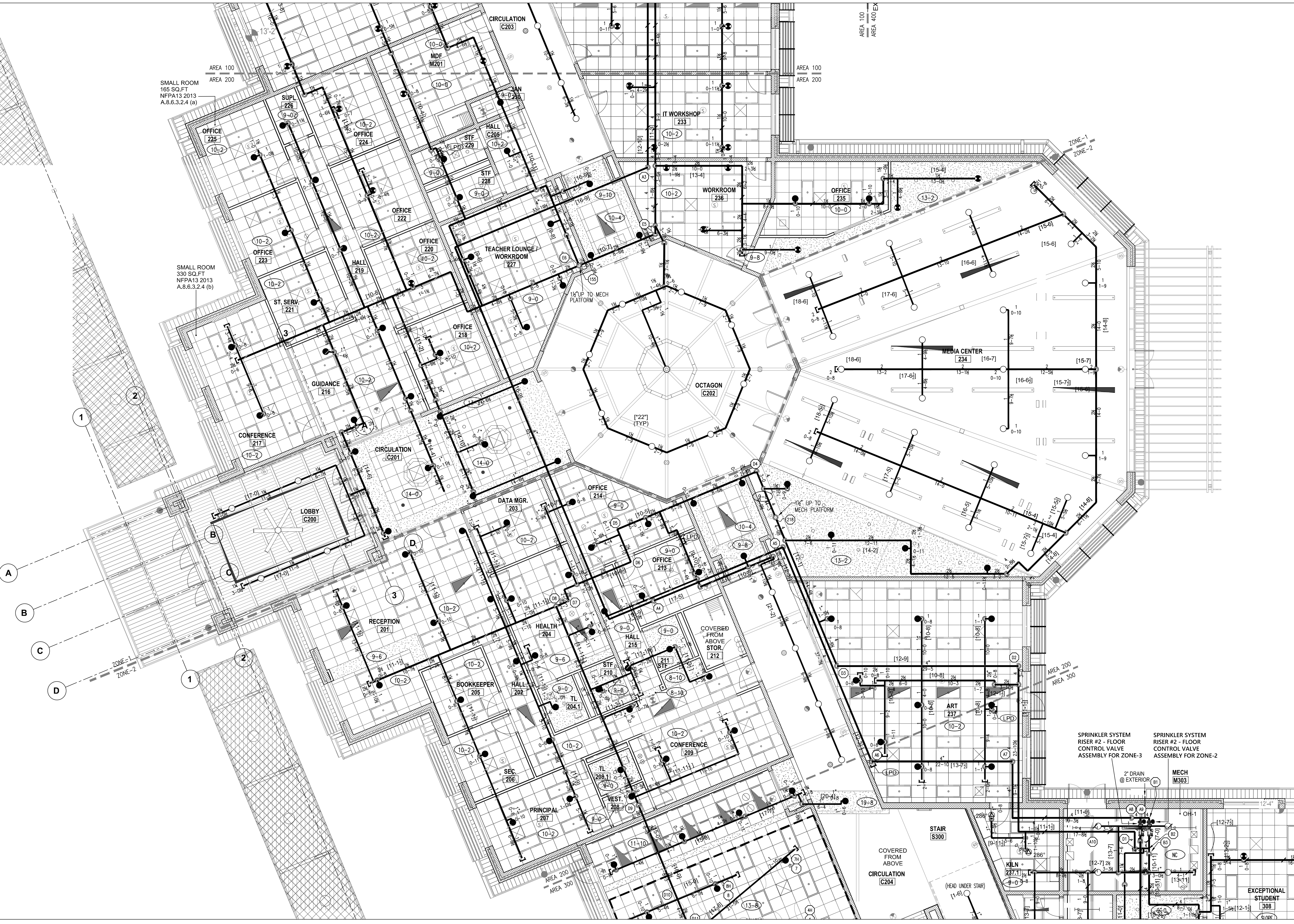
SHEET TITLE  
AREA 200  
FIRE SPRINKLER  
OVER HEAD PIPING  
PLAN

SHEET NUMBER  
FP12

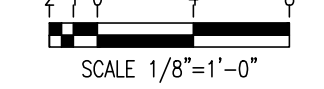
MECH PLATFORM ABOVE TEACHER LOUGNE/WORKROOM 227  
SCALE 1/8" = 1'-0"



MECH PLATFORM ABOVE OFFICE 213, OFFICE 214  
SCALE 1/8" = 1'-0"



AREA 200 - FIRE SPRINKLER OVER HEAD PIPING PLAN  
SCALE 1/8" = 1'-0"



TYPES OF SPRINKLERS OR EQUAL										
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
●	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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
- 4 PT-IN Elev. Above Finished Floor
- 5 PT-IN Ceiling Height
- Denotes Hanger Location
- Rise up or down
- Rigid Coupling
- Low Point Drain



**Harnett County School  
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**Owner or Occupant**

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(919) 573-6350

**ARCHITECT**

**SFL+Architexch**  
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**Job Site Address**

**Northwest Harnett Elementary School**  
736 Rollins Road,  
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**Job Site Contact**

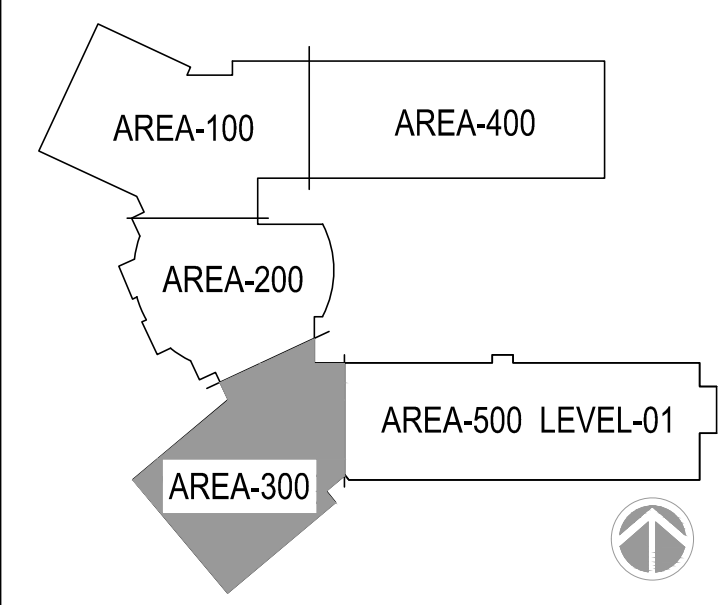
**METCON**  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
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(910) 521-8013

**Authority Having Jurisdiction**

**Fuquay-Varina Fire Marshal**

**Fire Protection Contact**

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(919) 868-4050



**KEYPLAN**



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Fax: (919) 835-2210

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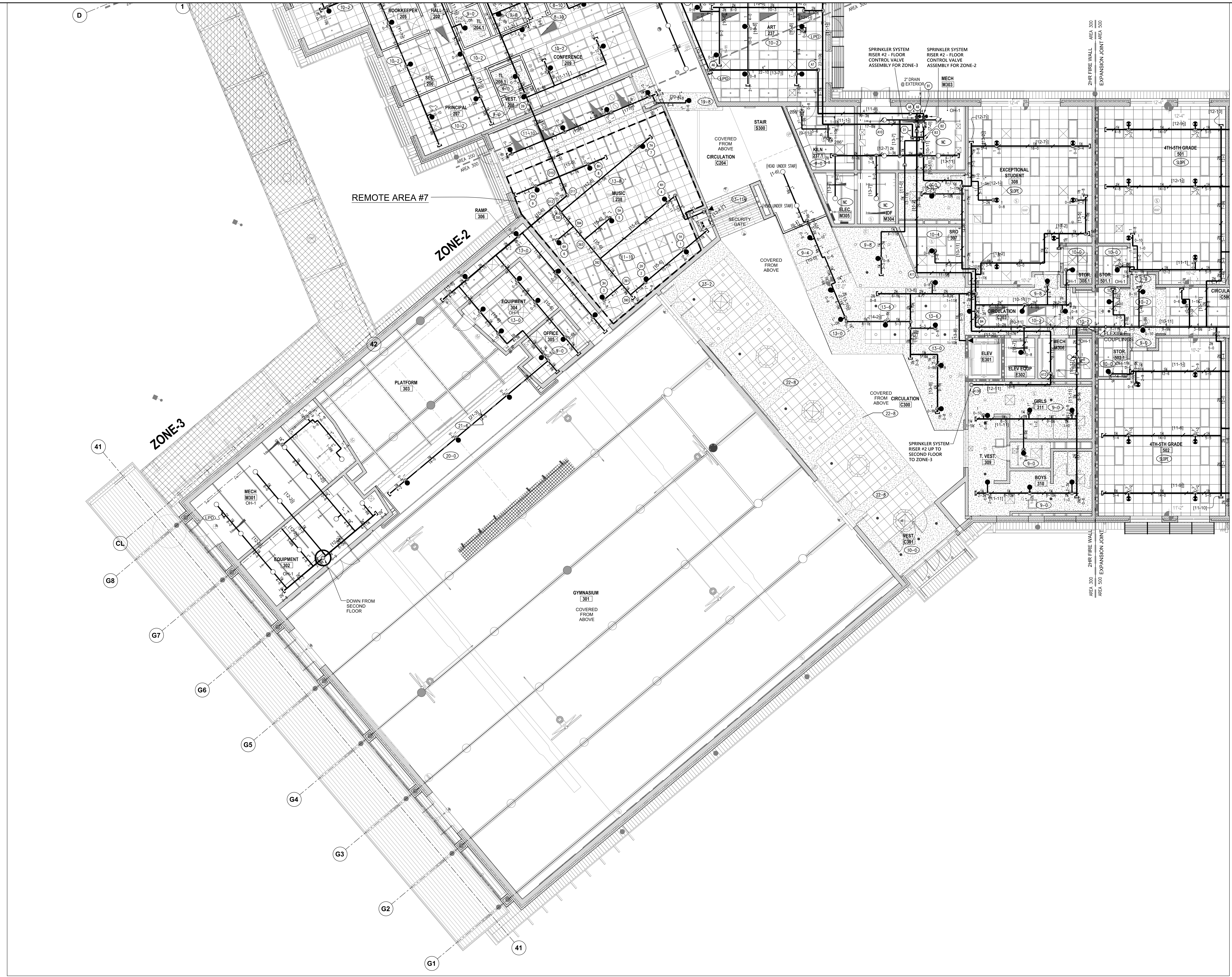
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SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

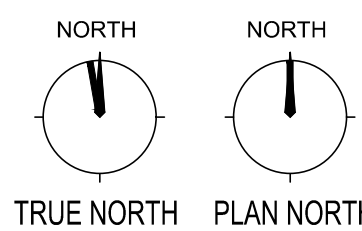
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**AREA 300  
FIRST FLOOR  
FIRE SPRINKLER  
OVER HEAD PIPING  
PLAN**

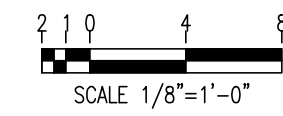
SHEET NUMBER  
**FP13**



TYPES OF SPRINKLERS OR EQUAL										
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
●	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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"



FIRE SPRINKLERS LEGEND:

○	Hydraulic Reference Points
○(+)	PT-IN Elev. Above Finished Floor
○(-)	PT-IN Ceiling Height
○	Denotes Hanger Location
○	Rise up or down
○	Rigid Coupling
○	Low Point Drain

**Owner or Occupant**  
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Dr. Aaron Fleming  
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Lillington, NC 27546  
(919) 573-6350

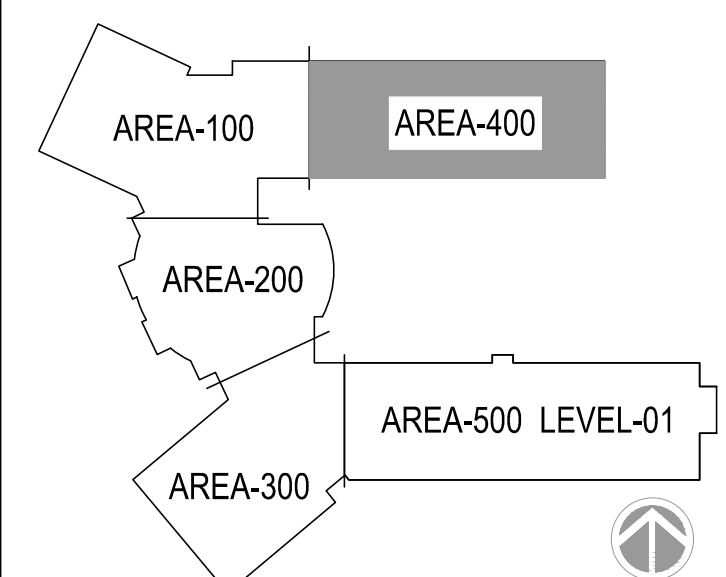
**ARCHITECT**  
SL+A Architech  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Elementary School  
736 Rollins Road,  
Fuquay-Varina, NC 27526

**Job Site Contact**  
METCON  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

**Authority Having Jurisdiction**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



**KEYPLAN**



ABL FIRE PROTECTION, LLC  
300 HOKE STREET, RALEIGH  
NORTH CAROLINA 27601  
Phone: (919) 835-2225  
Fax: (919) 835-2210

Contractor Seal

*Art K. Lamson, 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.

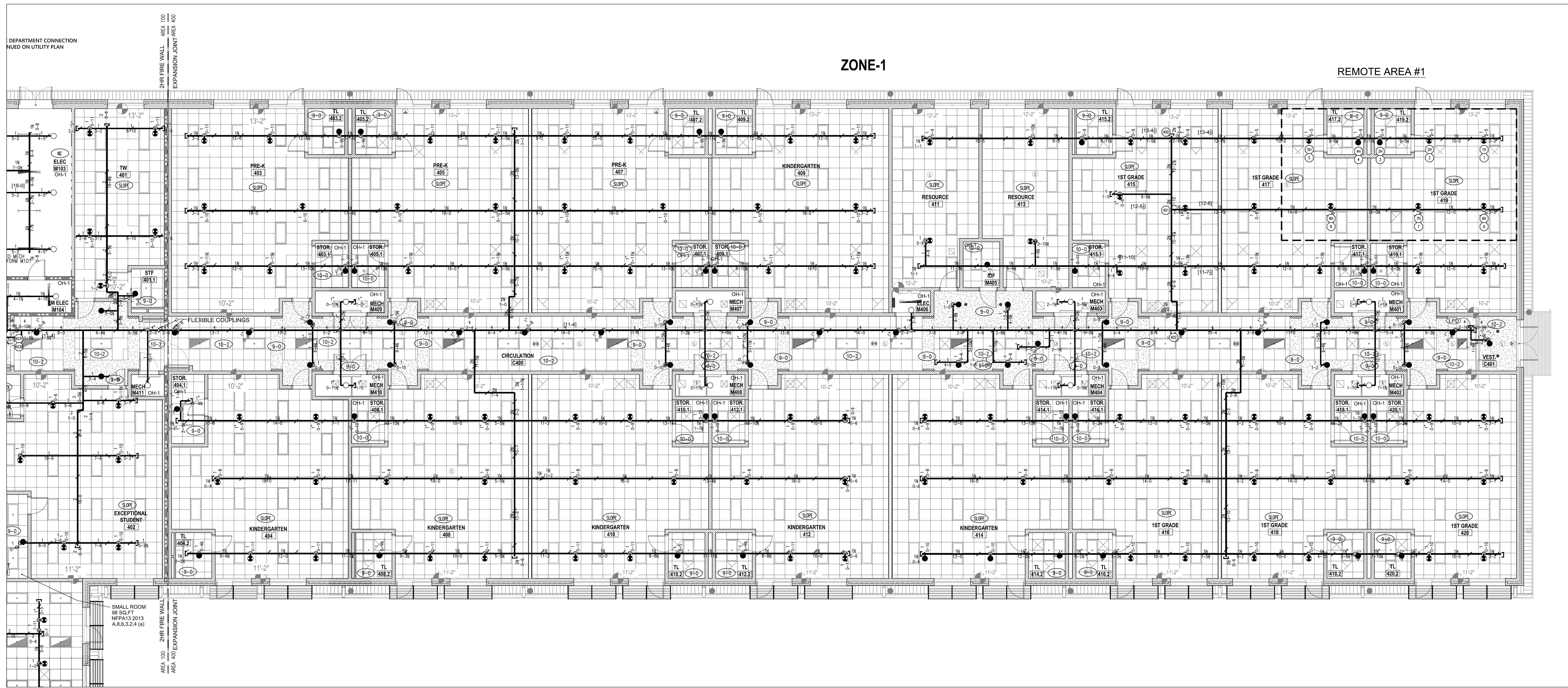
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DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/2" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

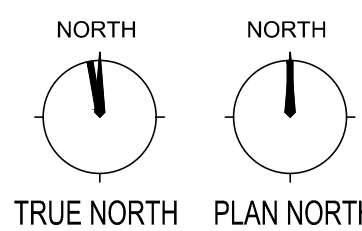
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**AREA 400  
FIRE SPRINKLER  
OVER HEAD PIPING  
PLAN**

SHEET NUMBER  
**FP14**

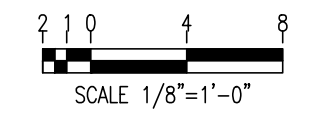


TYPES OF SPRINKLERS OR EQUAL										
SYM.	MAKE	MODEL	SIN. NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
●	TYCO	QR CONCEALED PENDENT RFI	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
○	TYCO	QR CONCEALED PENDENT RFI	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16
○	TYCO	QR EC CONCEALED PENDENT RFI	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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-400 - FIRE SPRINKLER OVER HEAD PIPING PLAN**

SCALE 1/8" = 1'-0"



FIRE SPRINKLERS LEGEND:

○	Hydraulic Reference Points
○(+4)	PT-IN Elev. Above Finished Floor
○	PT-IN Ceiling Height
—	Denotes Hanger Location
○	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  
Dr. Aaron Fleming  
1008 South 11th Street,  
Lillington, NC 27546  
(919) 573-6350

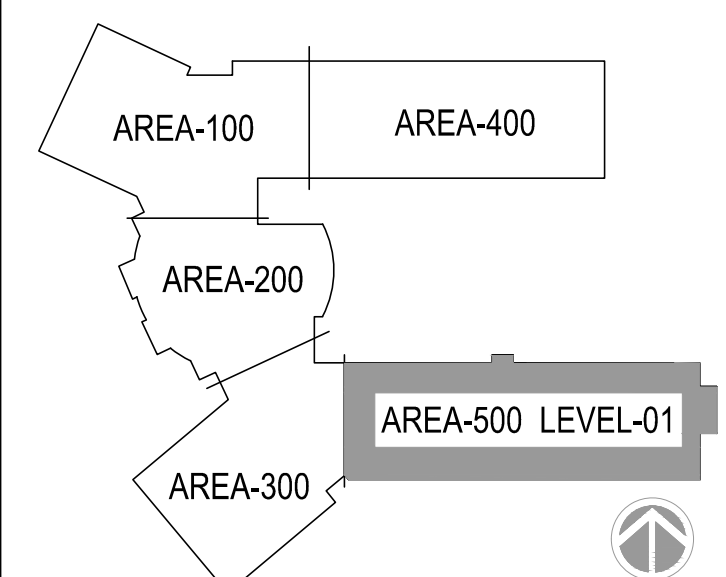
**ARCHITECT**  
SFL+Architexch  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Elementary 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**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 835-2225



KEYPLAN



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.*

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.

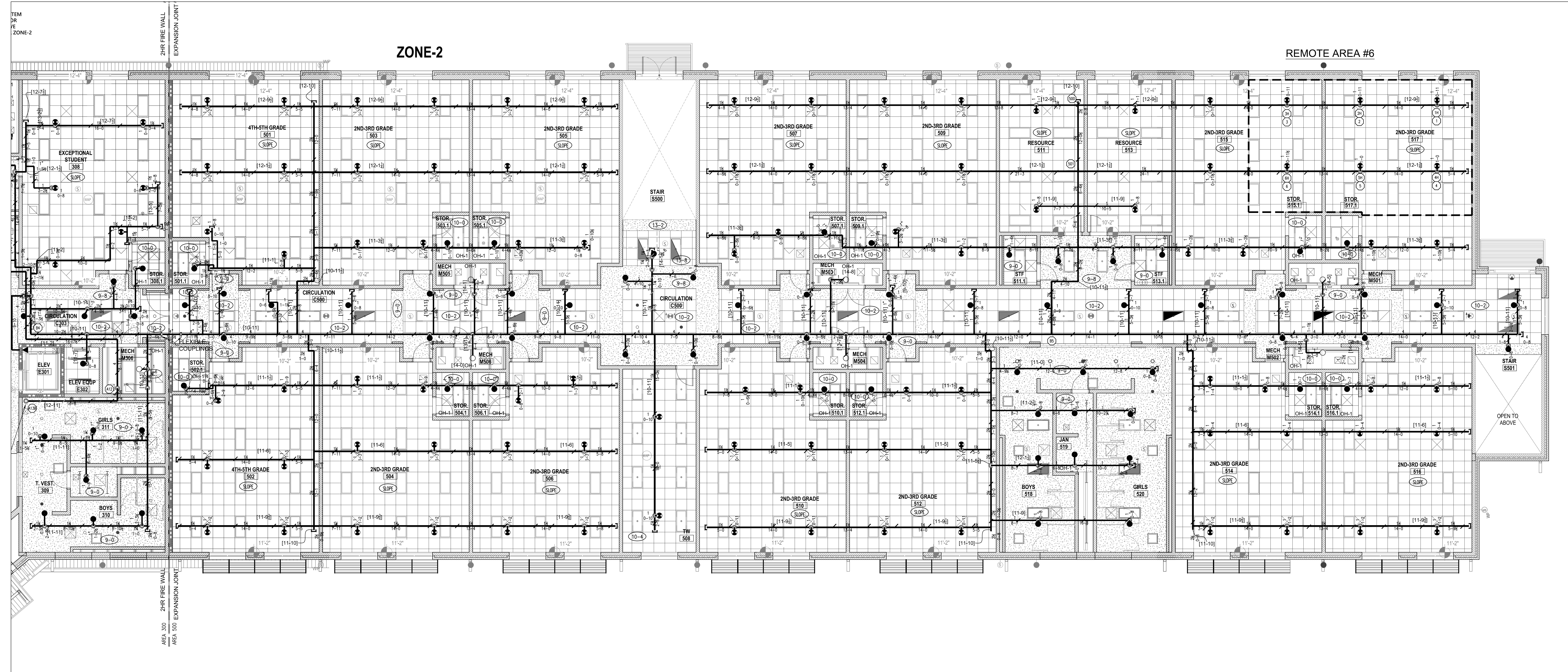
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altered or used in any form without consent from ABL Fire  
Protection, LLC.

DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

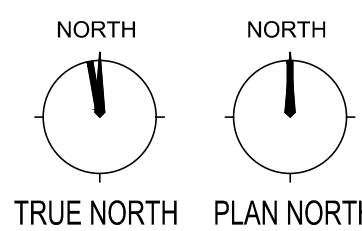
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
AREA 500  
FIRST FLOOR  
FIRE SPRINKLER  
OVER HEAD PIPING  
PLAN

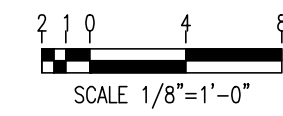
SHEET NUMBER  
FP15



TYPES OF SPRINKLERS OR EQUAL										
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
●	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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-500 FIRST FLOOR - FIRE SPRINKLER OVER HEAD PIPING PLAN  
SCALE 1/8" = 1'-0"



FIRE SPRINKLERS LEGEND:

○	Hydraulic Reference Points
○(4)	PT-IN Elev. Above Finished Floor
○	PT-IN Ceiling Height
—	Denotes Hanger Location
○	Rise up or down
□	Rigid Coupling
○(LD)	Low Point Drain

**Harnett County School  
Northwest Harnett  
Elementary School**

736 Rollins Road,  
Fuquay Varina, NC 27526

Owner or Occupant  
**Wake County Public School System**

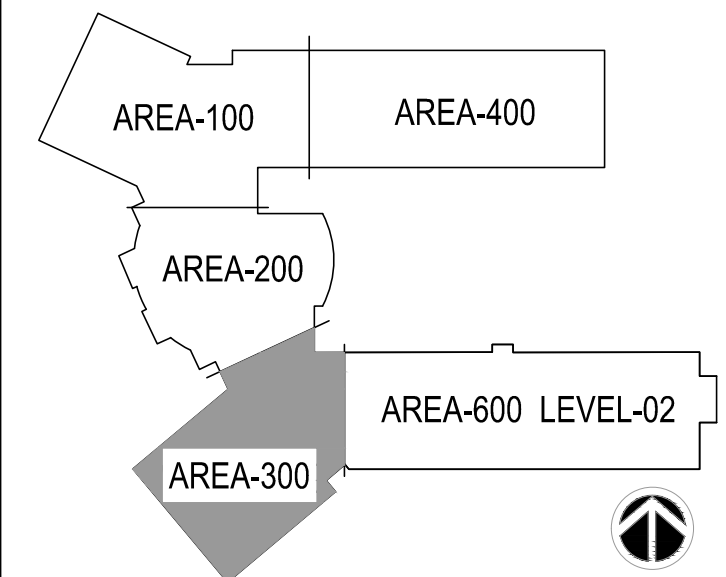
ARCHITECT  
**Skinner Farlow Kirwin Architecture**  
301 Glenwood Ave., Suite 270  
Raleigh, NC 27603  
(984) 222-0572

Job Site Address  
**York Elementary School**  
5201 Brookhaven Dr.  
Raleigh, NC 27612

Job Site Contact  
**Gilbane Building Company**  
Mason Colley  
1500 Fayetteville St. Suite 1100  
Raleigh, NC 27601  
(919) 400-0963

Authority Having Jurisdiction  
**Wake County Fire Services**

Fire Protection Contact  
**ABL Fire Protection, LLC**  
Design: Michael Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 602-6441



**KEYPLAN**



**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.*  
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.

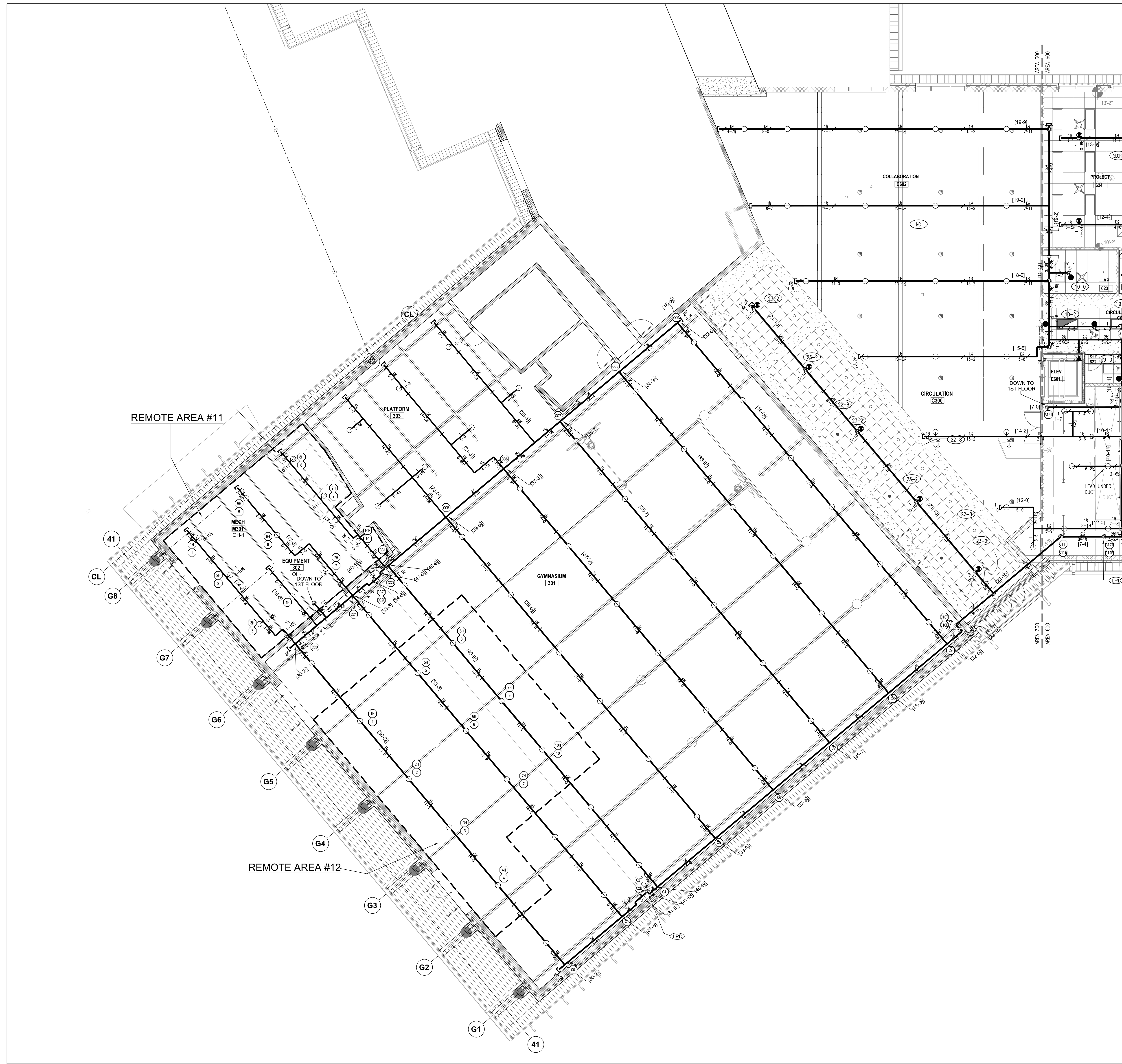
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DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/2" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

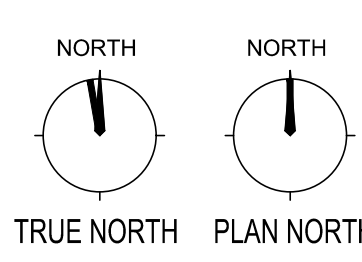
DESCRIPTION	REV DATE	BY
1 SUBMITTAL DRAWING	04/28/22	CL

SHEET TITLE  
**AREA 300  
SECOND FLOOR  
FIRE SPRINKLER  
OVER HEAD PIPING  
PLAN**

SHEET NUMBER  
**FP16**



TYPES OF SPRINKLERS OR EQUAL										
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	108
○	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	—
○	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6	WHITE	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	WHITE	1
TOTAL AMOUNT FOR LEVEL-2:										280

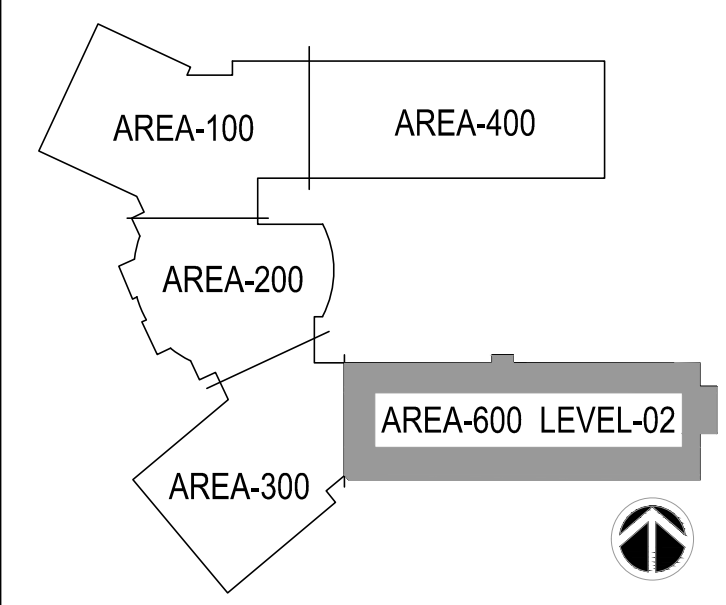


**AREA-300 SECOND FLOOR - FIRE SPRINKLER OVER HEAD PIPING PLAN**  
SCALE 1/8" = 1'-0"



FIRE SPRINKLERS LEGEND:

○	Hydraulic Reference Points
○(+4)	FT-IN Elev. Above Finished Floor
○	FT-IN Ceiling Height
—	Denotes Hanger Location
○	Rise up or down
○	Rigid Coupling
○	Low Point Drain



KEYPLAN



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.*

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.

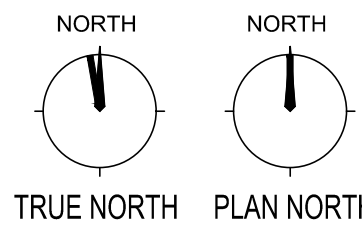
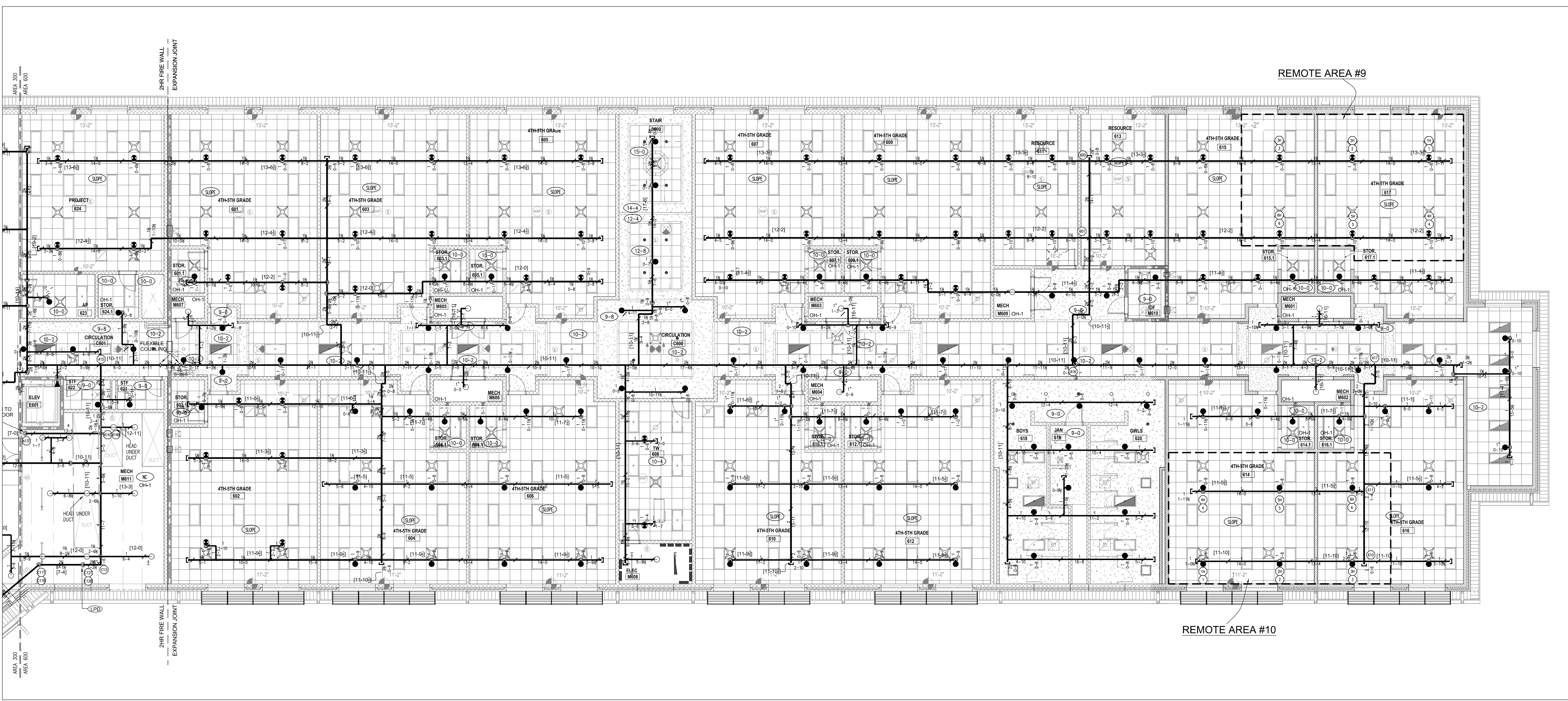
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DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	3/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

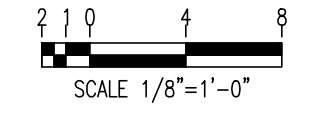
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**AREA 600  
SECOND FLOOR  
FIRE SPRINKLER  
OVER HEAD PIPING  
PLAN**

SHEET NUMBER  
**FP17**



AREA-600 SECOND FLOOR - FIRE SPRINKLER OVER HEAD PIPING PLAN  
SCALE 1/8" = 1'-0"



SYM.	MAKE	MODEL	TYPES OF SPRINKLERS OR EQUAL			K=	ESCUICHEON	QUAN.		
			SIN. NO.	SIZE	FINISH	TEMP.	TYPE			
●	TYCO	QR CONCEALED PENDENT RFI	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	108
○	TYCO	QR CONCEALED PENDENT RFI	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	-
●	TYCO	QR EC CONCEALED PENDENT RFI	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	67
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	-
○	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6	WHITE	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	WHITE	1
TOTAL AMOUNT FOR LEVEL-02:									280	

FIRE SPRINKLERS LEGEND:

- Hydraulic Reference Points
- 4 PT-IN Elev. Above Finished Floor
- 5 PT-IN Ceiling Height
- Denotes Hanger Location
- 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  
Dr. Aaron Fleming  
1008 South 11th Street,  
Lillington, NC 27546  
(919) 573-6350

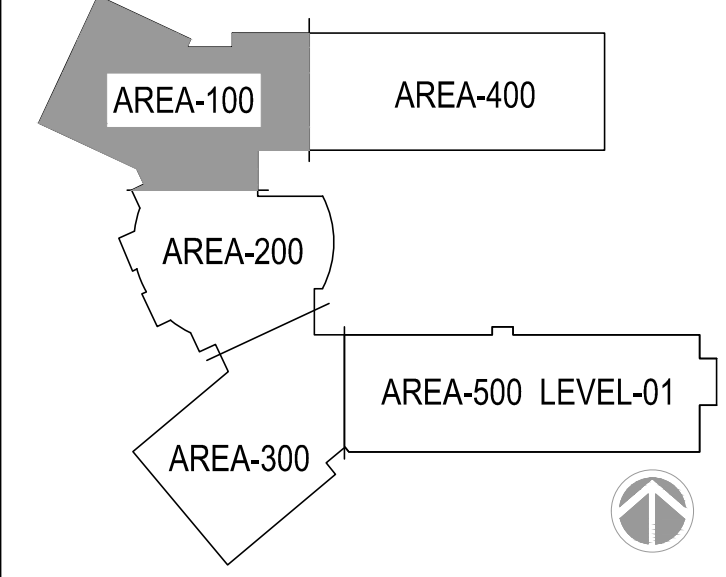
**ARCHITECT**  
SFL+Architect  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Elementary 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**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



**KEYPLAN**



**ABL FIRE PROTECTION, LLC**  
300 HOKE STREET, RALEIGH  
NORTH CAROLINA 27601  
Phone: (919) 835-2225  
Fax: (919) 835-2210

Contractor Seal

*Art K. Lamson, Jr.*

Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS

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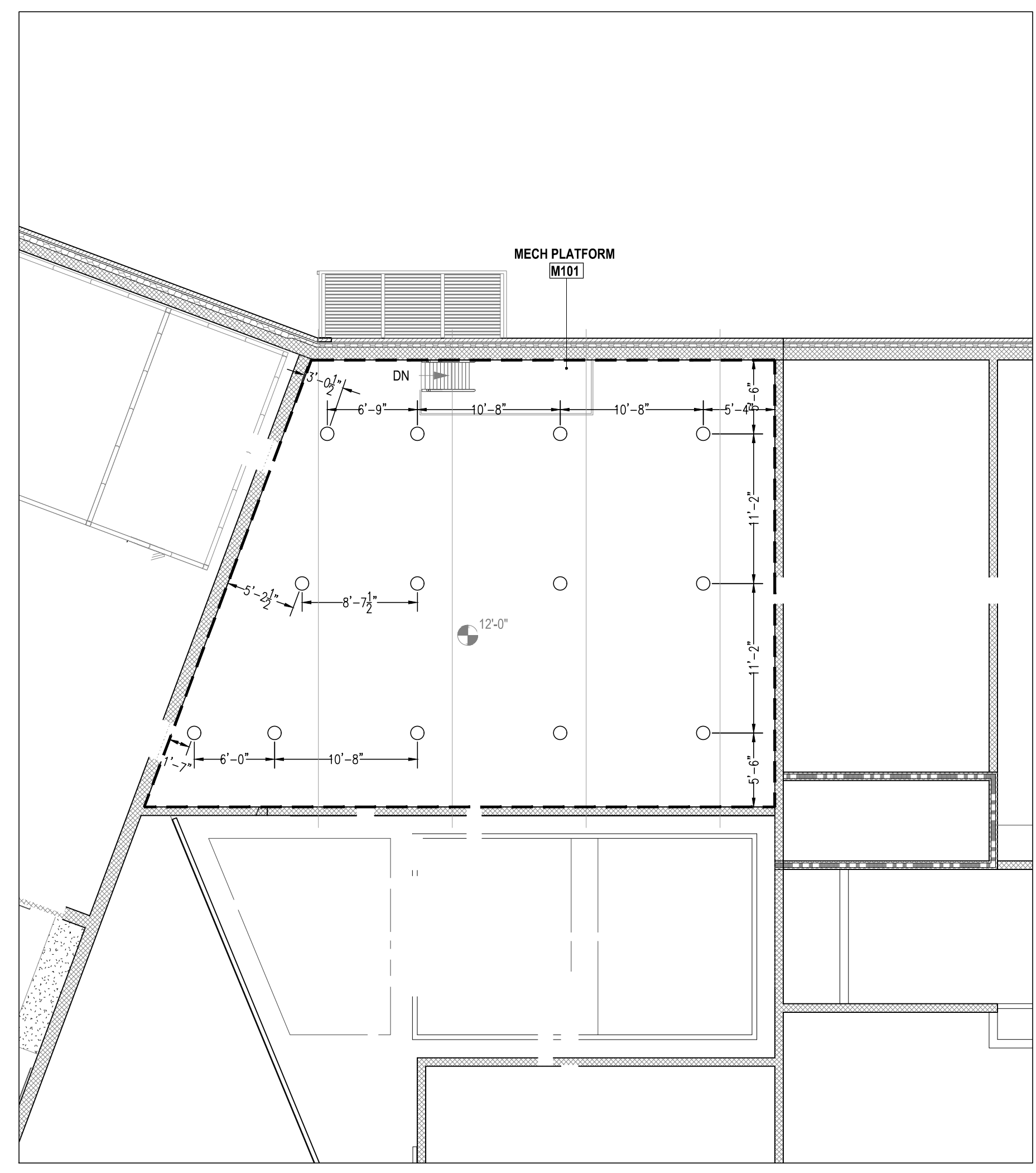
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<b>DRAWN BY</b>	CHRISTY LAMSON
<b>DATE</b>	04/19/2022
<b>SCALE</b>	1/2" = 1'-0" UNO
<b>SPRINKLERS ON JOBS</b>	979
<b>CONTRACT NO.</b>	4070

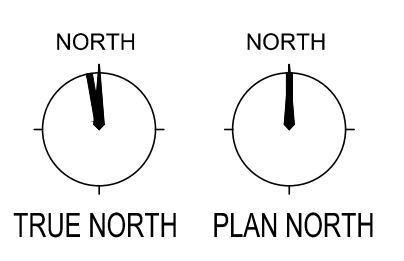
DESCRIPTION	REV DATE	BY
1 SUBMITTAL DRAWING	04/28/22	CL

**SHEET TITLE**  
AREA 100  
FIRE SPRINKLER  
REFLECTED CEILING  
PLAN

**SHEET NUMBER**  
FP21



**AREA 100 MEZZANINE - FIRE SPRINKLER OVER HEAD PIPING PLAN**  
SCALE 1/8" = 1'-0"



**AREA 100 - FIRE SPRINKLER REFLECTED CEILING PLAN**  
SCALE 1/8" = 1'-0"

TYPES OF SPRINKLERS OR EQUAL										
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
●	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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
<b>TOTAL AMOUNT FOR LEVEL-1:</b>										699

**FIRE SPRINKLERS LEGEND:**

- Hydraulic Reference Points
- (+4) PT-IN Elev. Above Finished Floor
- PT-IN Ceiling Height
- Denotes Hanger Location
- Rise up or down
- Rigid Coupling
- LD 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

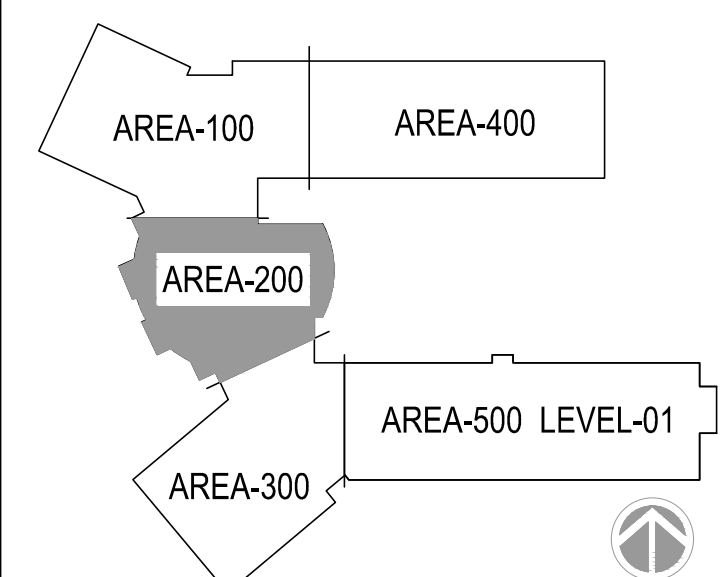
**ARCHITECT**  
SL+ Architects  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Elementary School  
736 Rollins Road,  
Fuquay-Varina, NC 27526

**Job Site Contact**  
METCON  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

**Authority Having Jurisdiction**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



KEYPLAN



ABL FIRE PROTECTION, LLC  
300 HOKE STREET, RALEIGH  
NORTH CAROLINA 27601  
Phone: (919) 835-2225  
Fax: (919) 835-2210

Contractor Seal  
*Art K. Lamson, Jr.*  
Arthur K. Lamson, Jr. N.I.C.E.T. Level III #20462 FS

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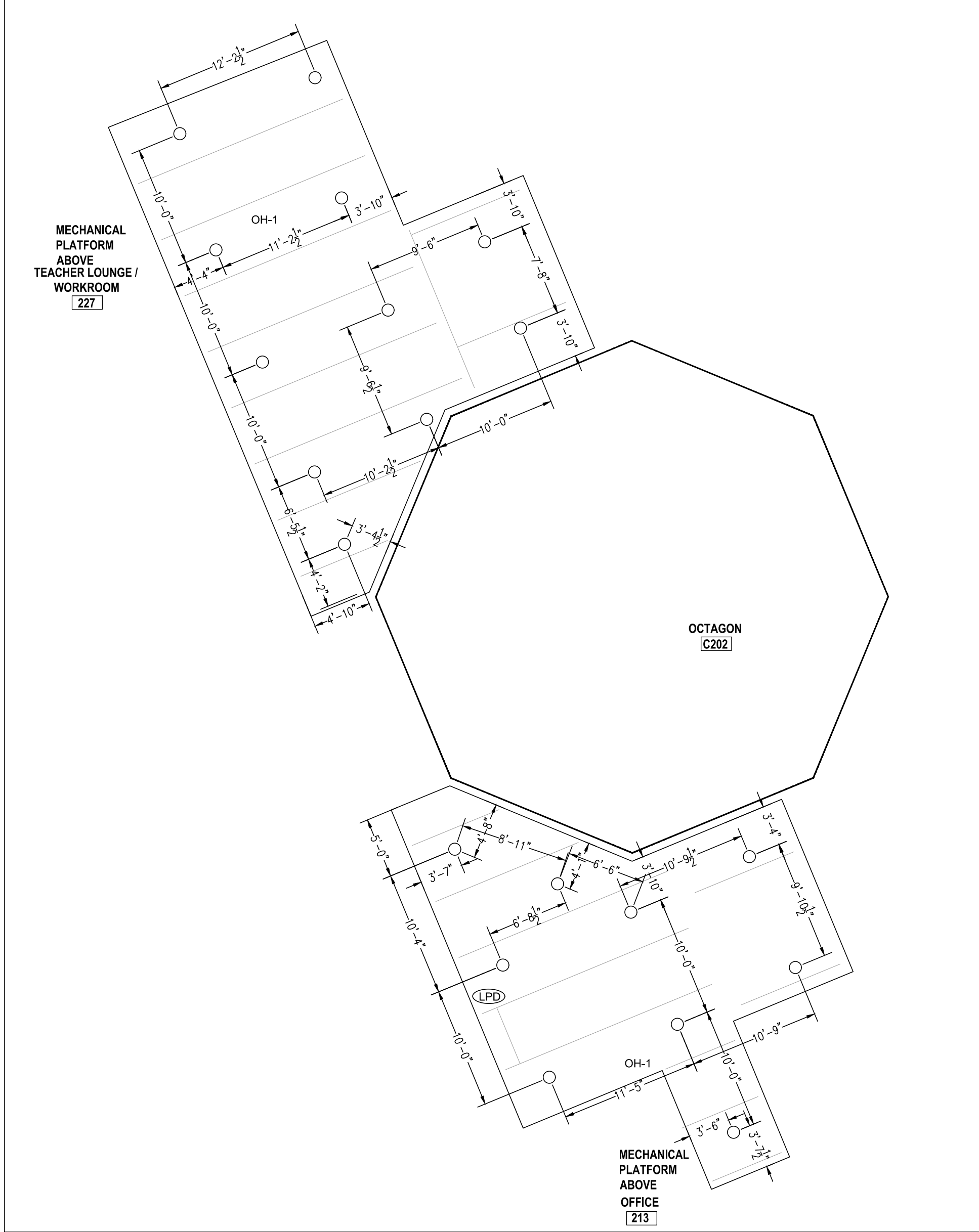
DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

DESCRIPTION	REV DATE	BY
1 SUBMITTAL DRAWING	04/28/22	CL

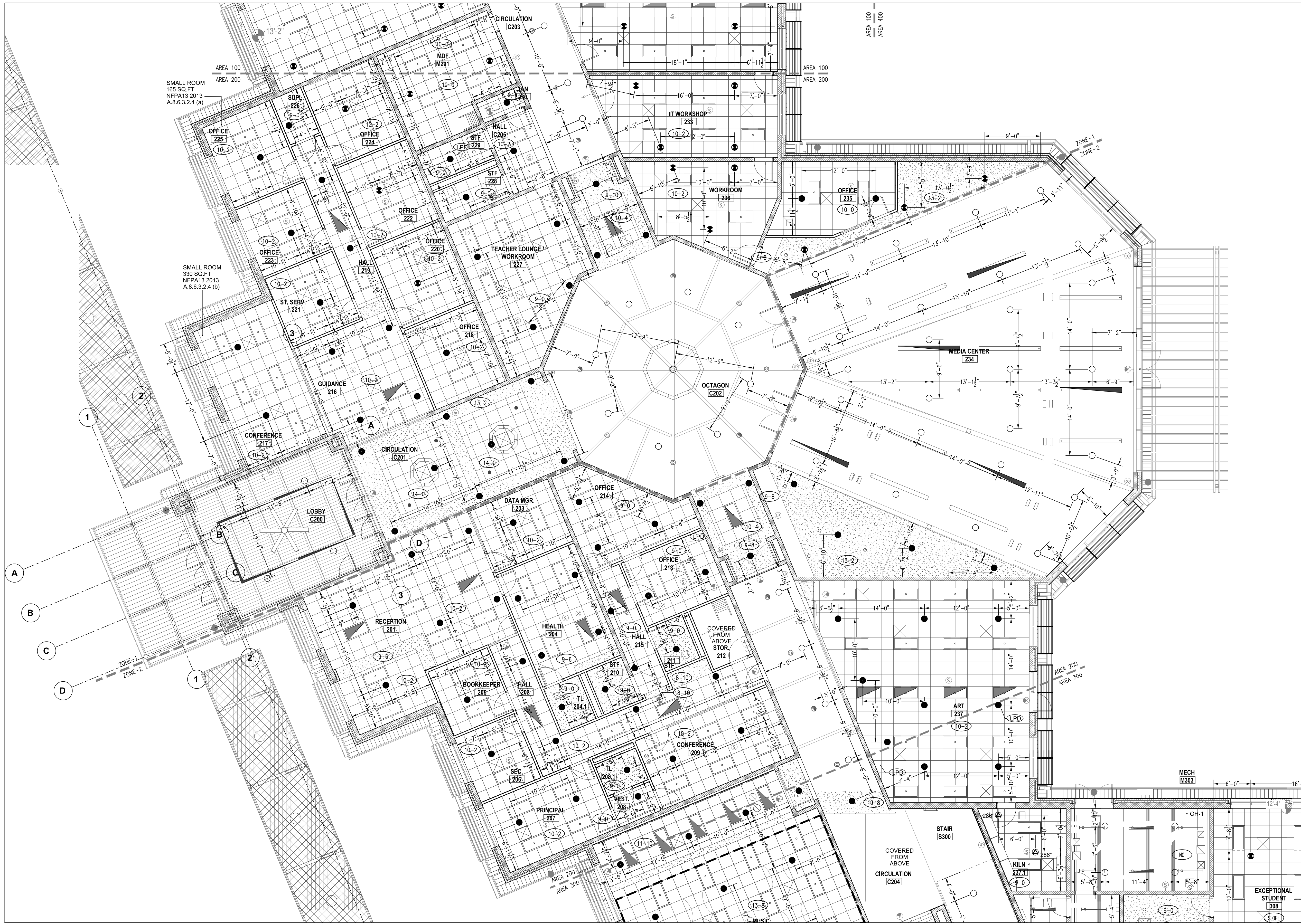
SHEET TITLE  
AREA 200  
FIRE SPRINKLER  
REFLECTED CEILING  
PLAN

SHEET NUMBER  
FP22

MECH PLATFORM ABOVE TEACHER LOUGNE/WORKROOM 227  
SCALE 1/8" = 1'-0"



MECH PLATFORM ABOVE OFFICE 213, OFFICE 214  
SCALE 1/8" = 1'-0"



NORTH NORTH  
TRUE NORTH PLAN NORTH  
AREA 200 - FIRE SPRINKLER REFLECTED CEILING PLAN  
SCALE 1/8" = 1'-0"  
2 1/2 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.
●	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
●	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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
(+4)	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

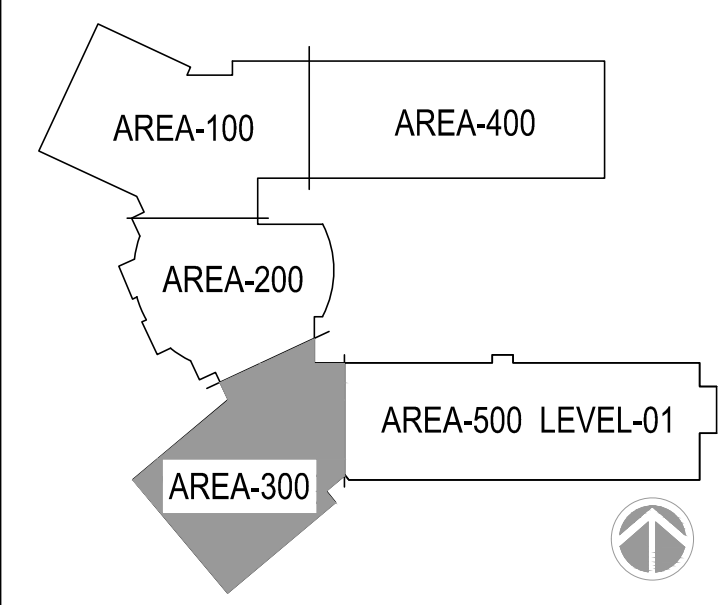
**ARCHITECT**  
SFL+Architexch  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Elementary School  
736 Rollins Road,  
Fuquay-Varina, NC 27526

**Job Site Contact**  
METCON  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

**Authority Having Jurisdiction**  
Fuquay-Varina Fire Marshall

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



**KEYPLAN**



**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.*

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.

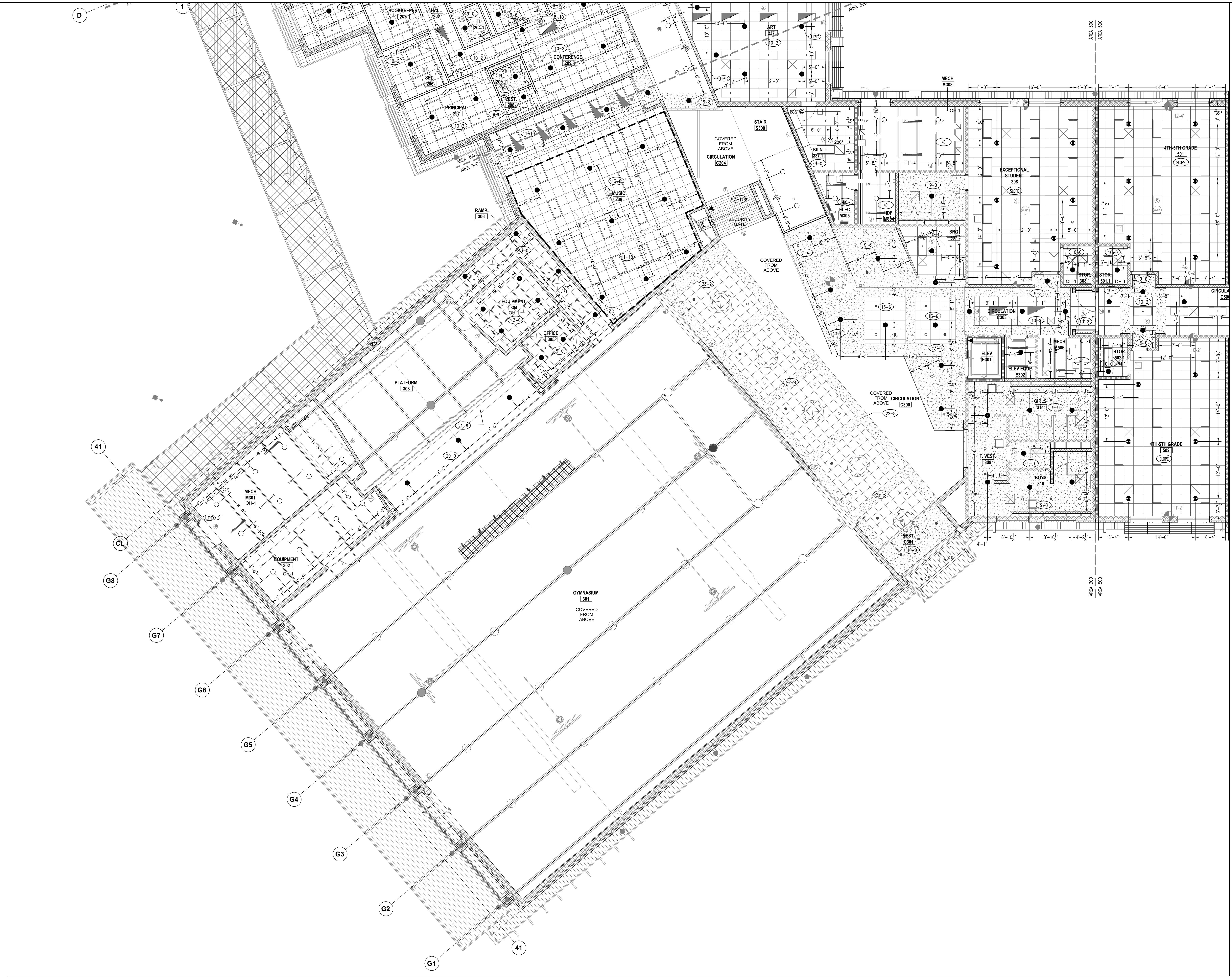
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DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

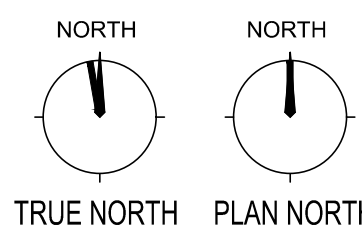
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**AREA 300  
FIRE SPRINKLER  
REFLECTED CEILING  
PLAN**

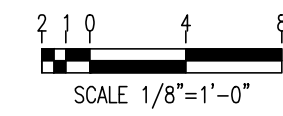
SHEET NUMBER  
**FP23**



TYPES OF SPRINKLERS OR EQUAL										
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
●	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6	WHITE	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 - FIRE SPRINKLER REFLECTED CEILING PLAN**  
SCALE 1/8" = 1'-0"



FIRE SPRINKLERS LEGEND:

○	Hydraulic Reference Points
○(+)	PT-IN Elev. Above Finished Floor
○(-)	PT-IN Ceiling Height
○	Denotes Hanger Location
○	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**

Dr. Aaron Fleming  
1008 South 11th Street,  
Lillington, NC 27546  
(919) 573-6350

**ARCHITECT  
SFL+Architect**

333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**

**Northwest Harnett Elementary School**  
736 Rollins Road,  
Fuquay-Varina, NC 27526

**Job Site Contact**

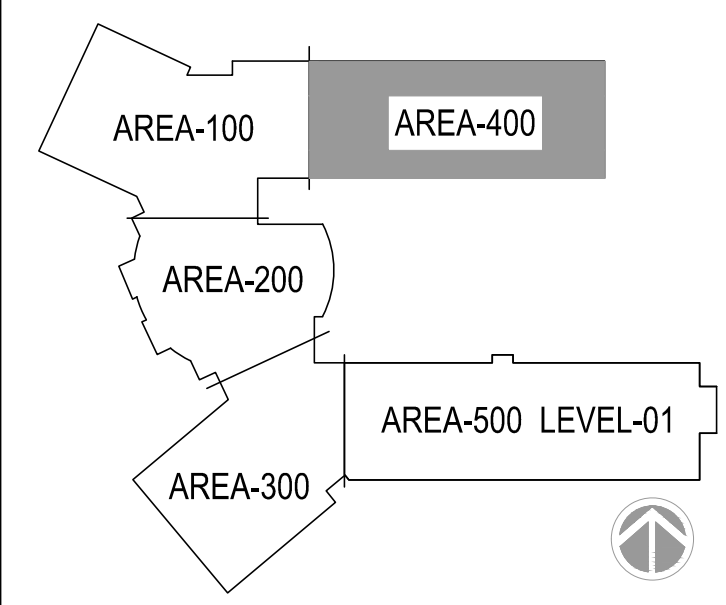
**METCON**  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

**Authority Having Jurisdiction**

**Fuquay-Varina Fire Marshal**

**Fire Protection Contact**

**ABL Fire Protection, LLC**  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 868-4050



**KEYPLAN**



**ABL FIRE PROTECTION, LLC**  
300 HOKE STREET, RALEIGH  
NORTH CAROLINA 27601  
Phone: (919) 835-2225  
Fax: (919) 835-2210

**Contractor Seal**

*Art K. Lamson, 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.

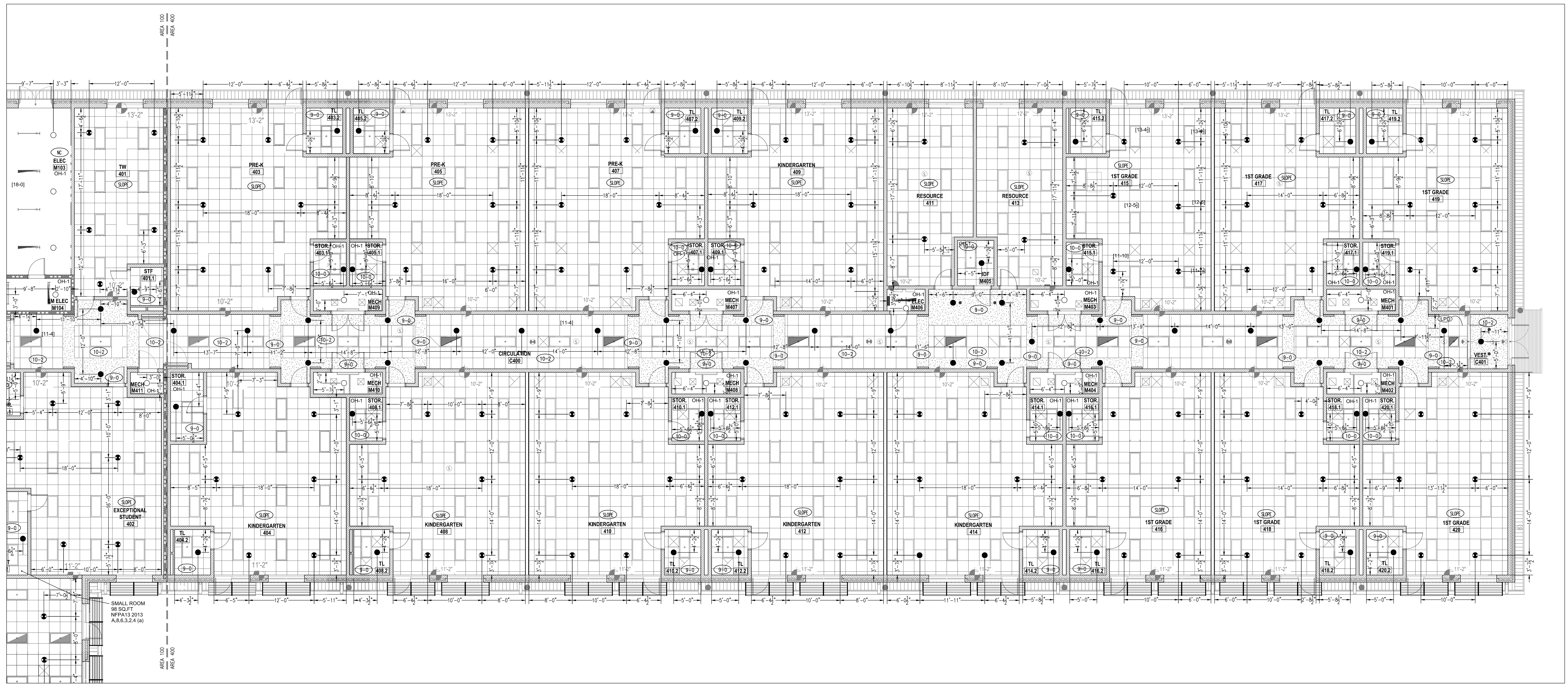
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DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	3/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

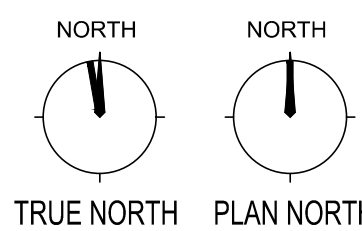
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**AREA 400  
FIRE SPRINKLER  
REFLECTED CEILING  
PLAN**

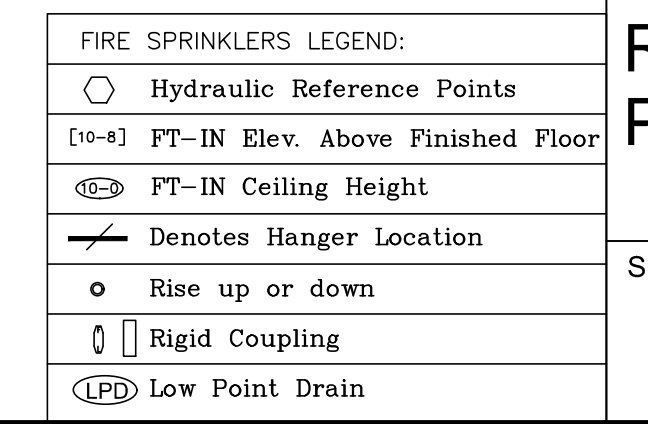
SHEET NUMBER  
**FP24**



TYPES OF SPRINKLERS OR EQUAL										
SYM.	MAKE	MODEL	SIN. NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
●	TYCO	QR CONCEALED PENDENT RFI	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	310
○	TYCO	QR CONCEALED PENDENT RFI	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	16
●	TYCO	QR EC CONCEALED PENDENT RFI	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	226
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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 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

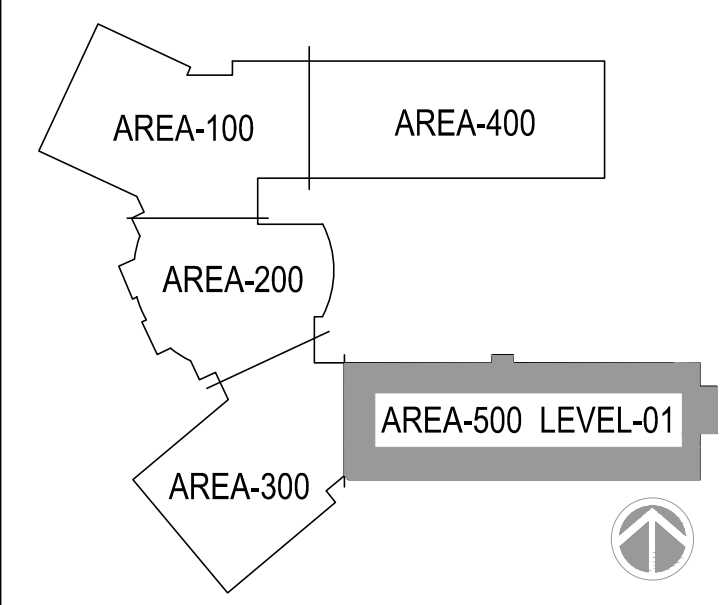
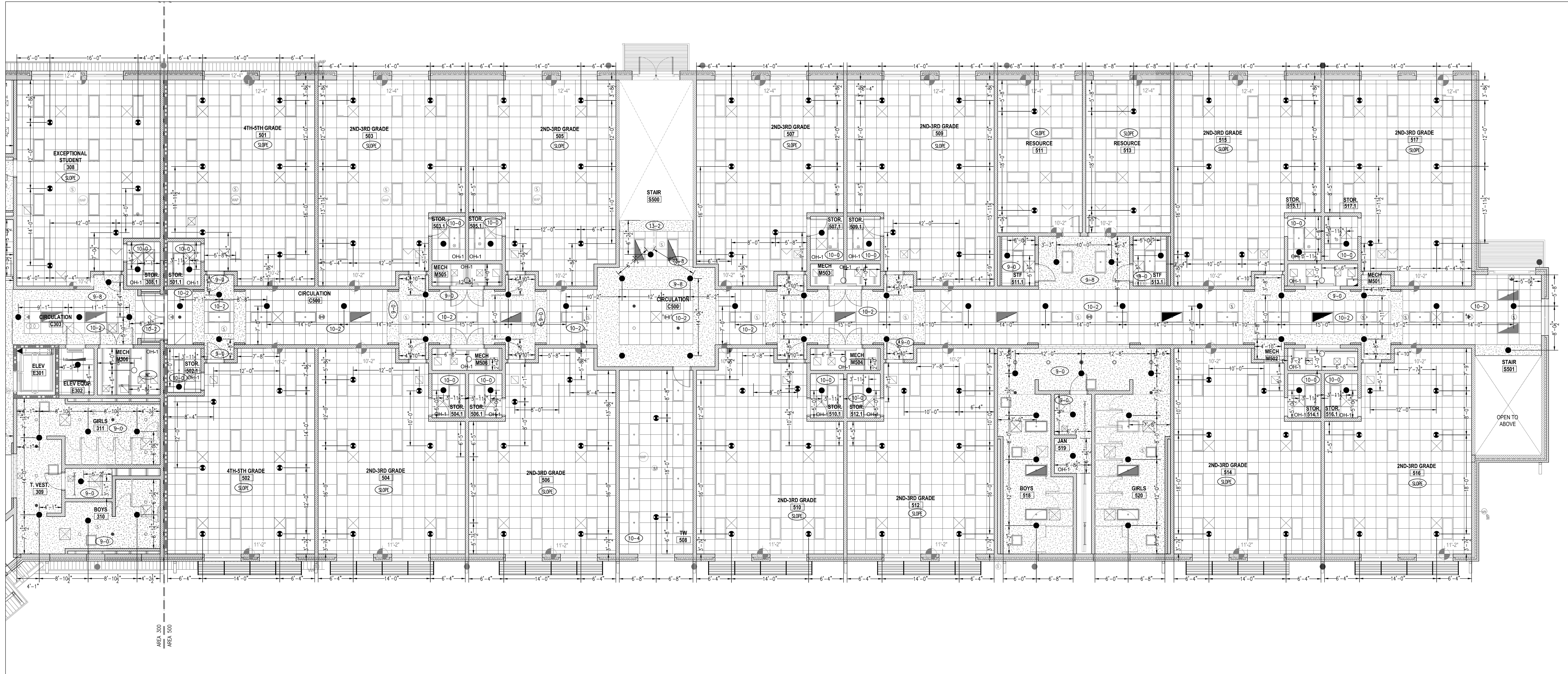
**ARCHITECT**  
SFL+Architexch  
333 Fayetteville Street, Suite 225  
Raleigh, NC 27601  
(919) 573-6350

**Job Site Address**  
Northwest Harnett Elementary School  
736 Rollins Road,  
Fuquay-Varina, NC 27526

**Job Site Contact**  
METCON  
Malenie Ziemniak  
3050 Hammond Business Place, Suite 121  
Pembroke, NC 28372  
(910) 521-8013

**Authority Having Jurisdiction**  
Fuquay-Varina Fire Marshal

**Fire Protection Contact**  
ABL Fire Protection, LLC  
Design: Christy Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 835-2210



KEYPLAN



ABL FIRE PROTECTION, LLC  
300 HOKE STREET, RALEIGH  
NORTH CAROLINA 27601  
Phone: (919) 835-2225  
Fax: (919) 835-2210

Contractor Seal  
*Art K. Lamson, 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.

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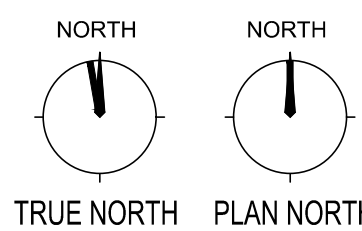
DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

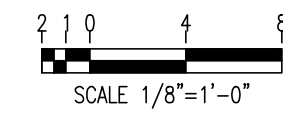
SHEET TITLE  
AREA 500  
FIRE SPRINKLER  
REFLECTED CEILING  
PLAN

SHEET NUMBER  
FP25

TYPES OF SPRINKLERS OR EQUAL										
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
●	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
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	2
○	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 500 - FIRE SPRINKLER REFLECTED CEILING PLAN  
SCALE 1/8" = 1'-0"



FIRE SPRINKLERS LEGEND:	
○	Hydraulic Reference Points
○(4)	FT-IN Elev. Above Finished Floor
○	FT-IN Ceiling Height
—	Denotes Hanger Location
○	Rise up or down
○	Rigid Coupling
○(LD)	Low Point Drain

**Harnett County School  
Northwest Harnett  
Elementary School**

736 Rollins Road,  
Fuquay Varina, NC 27526

Owner or Occupant  
**Wake County Public School System**

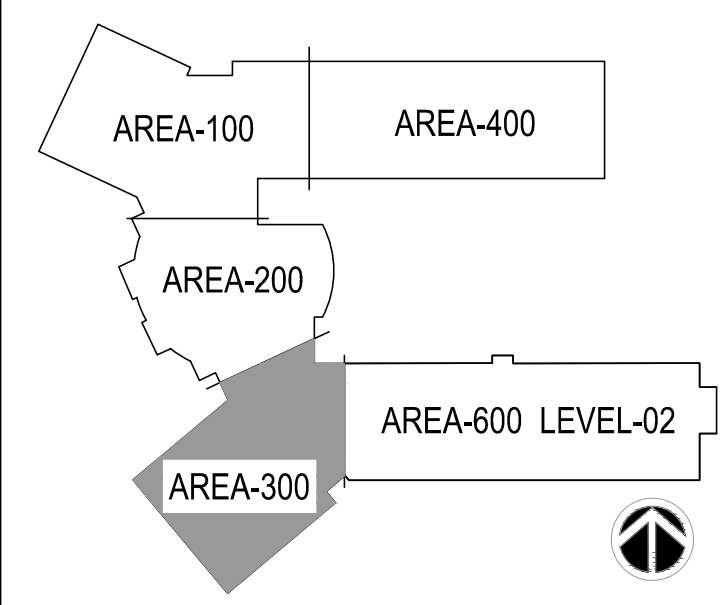
ARCHITECT  
**Skinner Farlow Kirwin Architecture**  
301 Glenwood Ave., Suite 270  
Raleigh, NC 27603  
(984) 222-0572

Job Site Address  
**York Elementary School**  
5201 Brookhaven Dr.  
Raleigh, NC 27612

Job Site Contact  
**Gilbane Building Company**  
Mason Colley  
1500 Fayetteville St. Suite 1100  
Raleigh, NC 27601  
(919) 400-0963

Authority Having Jurisdiction  
**Wake County Fire Services**

Fire Protection Contact  
**ABL Fire Protection, LLC**  
Design: Michael Lamson  
300 Hoke Street, Raleigh,  
North Carolina 27601  
(919) 602-6441



**KEYPLAN**



**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.*

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.

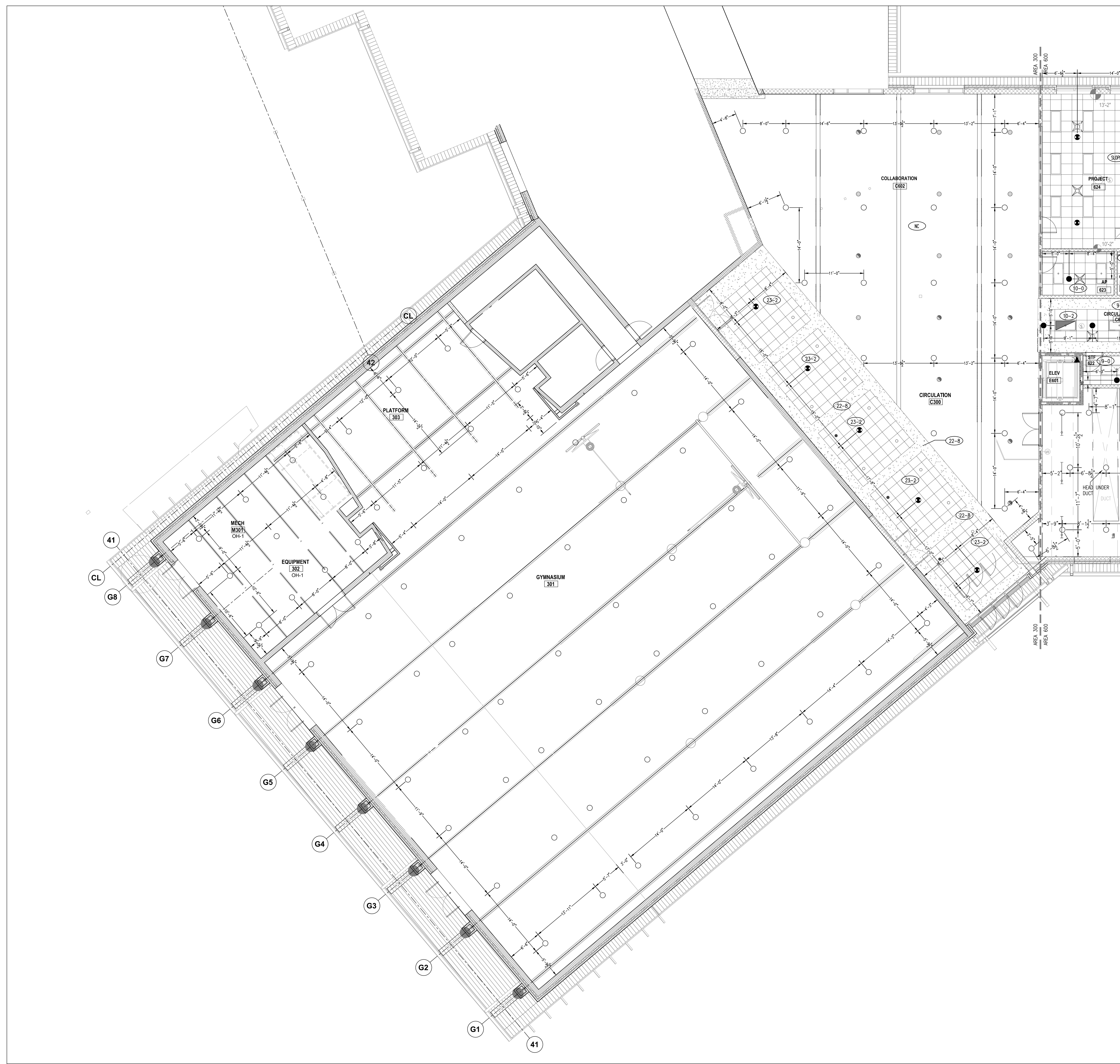
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DRAWN BY	CHRISTY LAMSON
DATE	04/19/2022
SCALE	1/8" = 1'-0" UNO
SPRINKLERS ON JOBS	979
CONTRACT NO.	4070

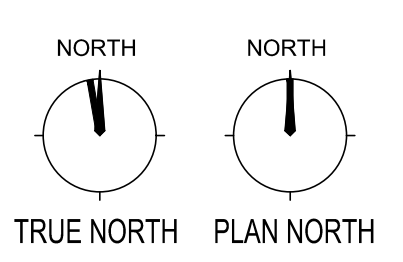
DESCRIPTION	REV	DATE	BY
1 SUBMITTAL DRAWING		04/28/22	CL

SHEET TITLE  
**AREA 300  
SECOND FLOOR  
FIRE SPRINKLER  
REFLECTED CEILING  
PIPING PLAN**

SHEET NUMBER  
**FP26**

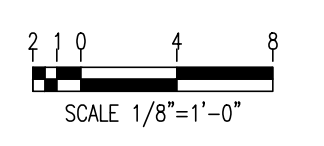


TYPES OF SPRINKLERS OR EQUAL										
SYM.	MAKE	MODEL	SIN. NO.	SIZE	FINISH	TEMP.	TYPE	K=	ESCUTCHEON	QUAN.
●	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	155°	PENDENT	5.6	WHITE	108
○	TYCO	QR CONCEALED PENDENT RFII	TY3531	1/2"	WHITE	200°	PENDENT	5.6	WHITE	—
●	TYCO	QR EC CONCEALED PENDENT RFII	TY3532	1/2"	BRASS	155°	PENDENT	5.6	WHITE	67
○	TYCO	QR RECESS PENDENT TY-FRB	TY3231	1/2"	WHITE	286°	PENDENT	5.6	WHITE	—
○	TYCO	QR UPRIGHT TY-FRB	TY3131	1/2"	BRASS	155°	UPRIGHT	5.6	WHITE	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	WHITE	1
TOTAL AMOUNT FOR LEVEL-2:										280



**AREA-300 SECOND FLOOR - FIRE SPRINKLER REFLECTED CEILING PIPING PLAN**

SCALE 1/8" = 1'-0"



FIRE SPRINKLERS LEGEND:

○	Hydraulic Reference Points
○(+4)	FT-IN Elev. Above Finished Floor
○	FT-IN Ceiling Height
—	Denotes Hanger Location
○	Rise up or down
○	Rigid Coupling
○	Low Point Drain

