SPRINKLER DESIGN DATA

PROJECT NAME:	HARNET COUNTY	GOVERNMENT SERVICES	S CENTER		
PROJECT STREET ADDRESS:	W. CORNELIUS HA	ARNETT BLVD, LILLINGTO	N, NC 27524		
SUITE #:	FLOOR #: 2		2	CEILING HGT:	VARIES
ESIGNED BY:	DEWBERRY	PHONE #:	919-881-9939	TOTAL BLDG. HGT:	41'-8"
ENERAL OCCUPANCY:		HAZARD:	LH/OH 1	SYSTEM NO.:	
		DESIGN SUMMAR	Y		
	SYSTEM# 1	SYSTEM# 2	SYSTEM#	SYSTEM#	SYSTEM#
DESIGN METHOD:	XXX	OTO/LIM/L	OTOTEMI	O TO LIVIN	O I O I LIVIII
SYSTEM I.D. NO.:	XXX				
LOCATION:	XXX				
TYPE OF SYSTEM:	WET	WET			
HAZARD CLASS:	LIGHT	OH 1			
CRITERIA FROM:	NFPA 13	NFPA 13			
DESIGN AREA:	1500 S.F.	1500 S.F.			
K-FACTOR:	5.6	5.6			
SPACING OF HEADS:	225 S.F. 130 S.F.				
SPRINKLER AREA:		CONTRACTR			
HOSE ALLOWANCE:	100				
# SPRINKLER DESIGN:	XXX				
REQUIREMENTS @:	XXX				
GPM REQ'D:	XXX				
PSI REQ'D:	XXX				
NODE #:	XXX				
SAFETY FACTOR @ NODE:	XXX				
GPM:	XXX				
PSI:	XXX				
	V	VATER SUPPLY INFORMA	TION		
TESTED BY:	DEWBERRY				
DATE/TIME:	6/27/19				
PRESS. HYDRANT:	SEE TEST				
HYDRANT ELEV:	SEE TEST				
FLOW HYDRANT:	SEE TEST				
STATIC (PSI):	78				
RESIDUAL (PSI):	58				
FLOW (GPM):	900				
	F	FIRE PUMP DATA			
RATED G.P.M.:	N/A	RATED PRESSURE:	N/A	DIESEL HP: 000	N/A
ELECTRIC VOLTS:	N/A	BOOST PRESSURE:	N/A	DISCHARGE FLOW:	N/A
RESIDUAL (PSI):	N/A	FLOW (GPM):	N/A	COMBINED GPM:	N/A
COMBINED STATIC:	N/A	COMBINED RESIDU	AL: N/A		SCHARGE NODE: N

YES

IS STORAGE HEIGHT GREATER THAN 12 FEET?

ABBREVIATIONS - FIRE PROTECTION

BACKFLOW PREVENTER BTV BUTTERFLY VALVE BV BALL VLVE CKV CHECK VALVE DOWN FBO FURNISHED BY OWNER FDC FIRE DEPARTMENT CONNECTION FIRE LINE FIRE PROTECTION GLOBE VALVE GATE VALVE NORMALLY CLOSED NIC NOT IN CONTRACT OS & Y **OUTSIDE SCREW & YOKE**

TYPICAL

TYP

GENERAL NOTES - FIRE PROTECTION

- 1. ALL WORK SHALL BE COORDINATED WTIH ALL OTHER TRADES PRIOR TO INSTALLATION. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS, AND OTHER TRADES WORK AND SHALL PROVIDE ANY NECESSARY OFFSETS, RE-ROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- 2. SPRINKLER CONTRACTOR SHALL INSTALL A DRAIN AT ALL RISER LOCATIONS AS WELL AS ALL LOW POINTS IN THE SYSTEM. AN INSPECTORS TEST DRAIN SHALL BE INSTALLED ON THE SYSTEM. SPRINKLER PIPING SHALL SLOPE DOWN TO DRAIN LOCATIONS.
- SPRINKLER HEADS SHALL BE SPACED PER NFPA 13, 2013. QUICK RESPONSE HEADS SHALL BE UTILIZED. ALL SPACES ARE LIGHT HAZARD UNLESS NOTED OTHERWISE.
- 4. SPRINKLER CONTRACTOR SHALL VERIFY LATEST ARCHITECTURAL LAYOUTS PRIOR TO INSTALLATION OF SYSTEM.
- THE ENTIRE SPRINKLER SYSTEM SHALL BE TESTED AT 200 PSI FOR A MINIMUM OF 2 HOURS UPON COMPLETION OF INSTALLATION. ALL LEAKS SHALL BE PROPERLY SEALED OR CORRECTED PRIOR TO TURNOVER TO OWNER.
- 6. ALL INSTALLATION, MATERIALS AND EQUIPMENT UTILIZED IN THIS INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN NFPA 13, CHAPTER 12, "SYSTEM COMPONENTS", AS WELL AS NFPA 14.
- 7. FIRE RATED PENETRATIONS ARE REQUIRED, AND SHALL BE INSTALLED PER THE FIRE STOPPING DETAILS INDICATED.
- 8. PIPING ELEVATIONS ARE TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
- 9. SPRINKLER CONTRACTOR SHALL ROUTE PIPING AS CLOSE TO BUILDING STRUCTURE (FLOORS, WALLS, COLUMNS, AND BEAMS) AS POSSIBLE. AND SHALL COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- 10. SPRINKLER CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL ACCESS DOORS AND HATCHES WITH GENERAL CONTRACTOR.
- 11. ONLY NEW MATERIALS AND EQUIPMENT ARE TO BE INSTALLED, AND SHALL BE OF THE LATEST DESIGN FROM EACH MANUFACTURER. ONLY EQUIPMENT AND MATERIALS APPROVED AND LISTED BY UL AND THE UNDERWRITER ARE TO BE INSTALLED. ONLY MATERIALS AND EQUIPMENT MANUFACTURED WITHIN THE UNITED STATES WILL BE INSTALLED. ALL SPRINKLER SYSTEM COMPONENTS SHALL HAVE A WORKING PRESSURE SUITABLE FOR THE CONDITIONS INDICATED BY THE FLOW TEST.
- 12. COORDINATE ALL SHUTDOWNS OF EXISTING UTILITIES IN ADVANCE WITH THE OWNER.
- 13. THE DRAWINGS ARE DIAGRAMMATIC; EXACT ROUTING MAY VARY BASED UPON FIELD CONDITIONS. INSTALL ALL NEW WORK TO AVOID INTERFERENCE WITH OTHER TRADES. REVIEW DESIGN DOCUMENTS PRIOR TO BID AND INCLUDE ALL OFFSETS THAT WILL BE NECESSARY TO PROPERLY INSTALL PIPING.
- 14. THE CLASS 1 MANUAL WET STANDPIPE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 14, THE LATEST CITY, COUNTY, AND STATE BUILDING CODE REQUIREMENTS, AS WELL AS LOCAL BUILDING INSPECTOR REQUIREMENTS.
- 15. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER A COMPLETE SET OF AS-BUILT PLANS INDICATING ALL CHANGES ENCOUNTERED DURING CONSTRUCTION.
- 16. ALL PIPE PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE SEALED, USING A UL LISTED SYSTEM, IN A MANNER THAT EQUALS THE RATING OF THE WALL. REFER TO UL DETAILS PROVIDED.
- 17. ALL PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL PIPING AND FITTINGS WITH ROLLED GROOVE JOINTS. ALL PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL AND FITTINGS WITH THREADED JOINTS.
- 18. ALL ARMOVERS SHALL BE 1" IN SIZE. ARMOVERS EXCEEDING 2'-0" IN LENGTH SHALL BE SUPPORTED WITH HANGERS PER NFPA 13.
- 19. ALL WORK SHALL COMPLY WITH THE NORTH CAROLINA DEPARTMENT OF INSURANCE OFFICE OF STATE FIRE MARSHAL FIRE SPRINKLER STANDARD, WHICH IS UTILIZED IN THESE CONTRACT DOCUMENTS. TO OBTAIN A COPY OF THE FULL STANDARD, PLEASE SEE WWW.NCDOI.COM/OSFM/ENGINEERING/DOCUMENTS/SPRINKLER(2009).pdf

STANDARD DETAILING SYMBOLS

PLAN / DETAIL SIM REF. CALLOUT A101 AREA TO BE | ENLARGED | _____ **BUILDING/WALL** SHEET REF.

VIEW NAME-

VIEW REF/SHEET REF WHERE -

VIEW IS REFERENCED

VIEW DESIGNATION √ Scale: 1/8" = 1'-0" 1/A101 VIEW SCALE

VIEW TITLE

LEVEL NAME FIRST FLOOR LEVEL LINE LEVEL ELEVATION ___ 100' - 0"

INDICATES PLAN NORTH **NORTH INDICATOR** INDICATES TRUE NORTH -

Space Name ROOM TAG ROOM NUMBER-

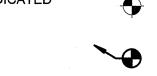
101

REVISION NUMBER-

REVISION TAG REVISION CLOUD

KEYNOTE NUMBER ELEVATION AT ----1' - 0" POINT INDICATED

SPOT ELEVATION



CONNECT NEW TO EXISTING



POINT OF DISCONNECTION

DRAWING LIST - FIRE PROTECTION

F-001 FIRE PROTECTION SYMBOLS, ABBREVIATIONS & NOTES

F-112 FIRST FLOOR RCP PLAN F-122 SECOND FLOOR RCP PLAN

F-501 DETAILS TOTAL SHEETS: 4

FIDE DOCTECTION DIDING CYMPOLS

SYMBOL	DESCRIPTION	
ABBV	PIPE WITH SYSTEM ABBREVIATION.	
•	PENDANT SPRINKLER	
•	PENDANT SPRINKLER ON DROP	
×	PENDANT SPRINKLER ON DROP WITH GUARD	
×	PENDANT SPRINKLER WITH GUARD	
• 0	UPRIGHT SPRINKLER	
⊚	UPRIGHT SPRINKLER ON SPRING	
×	UPRIGHT SPRINKLER ON SPRING WITH GUARD	
×	UPRIGHT SPRINKLER WITH GUARD	
▼ .	WALL MOUNTED SPRINKLER	
⊗	WINDOW PENDANT SPRINKLER	
	FLOW LIMITER	
2	FIRE VALVE	
\ 78 {	BALL VALVE	
\	BALANCING VALVE	
_ \	BACKWATER VALVE	
\ \	BUTTERFLY VALVE	
, , , , , , , , , , , , , , , , , , , 	CHECK VALVE WITH FLOW DIRECTION INDICATED	
,	CONTROL VALVE	
`	GATE VALVE	
. > > > > -	GLOBE VALVE	
;	OSY VALVE	
y	3-WAY VALVE	
SD F 02	RISER ID TAG	
F	WATER FLOW SWITCH	
,,,,,,	FIRE DEPARTMENT CONNECTION 2-WAY BODY	
Þ ÷	FIRE DEPARTMENT CONNECTION 3-WAY EXTENDED	
.Д	FIRE DEPARTMENT CONNECTION FLUSH OUTLET 2-WAY BODY	
4	FIRE DEPARTMENT CONNECTION FLUSH OUTLET 3-WAY BODY	
\$	FIRE DEPARTMENT CONNECTION STAND ALONE DO	
=	FIRE HOSE VALVE CABINET	
$\langle xx \rangle$	HYDROLIC REFERENCE NODE	
<u> </u>	FIRE ALARM BELL	
200	HEAT DETECTOR	



410 Blackwell Street, Suite 10 Durham, NC 27701 T: 919.474.2500

www.littleonline.com

This drawing and the design shown are the property of Little Diversified Architectural Consulting. The reproduction, copying or other use of this drawing without their written consent is probibited and any infringement will be subject

to legal action. ______ © Little 2018_____

COUNTY strong roots • new growth

Dewberry

Dewberry Engineers Inc. 2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 FAX: 919.881.9923 NCBELS # F-0929



CONSTRUCTION DOCUMENTS

ISSUE DATE

06.27.2019

PRINCIPAL IN CHARGE MBW

PROJECT MANAGER

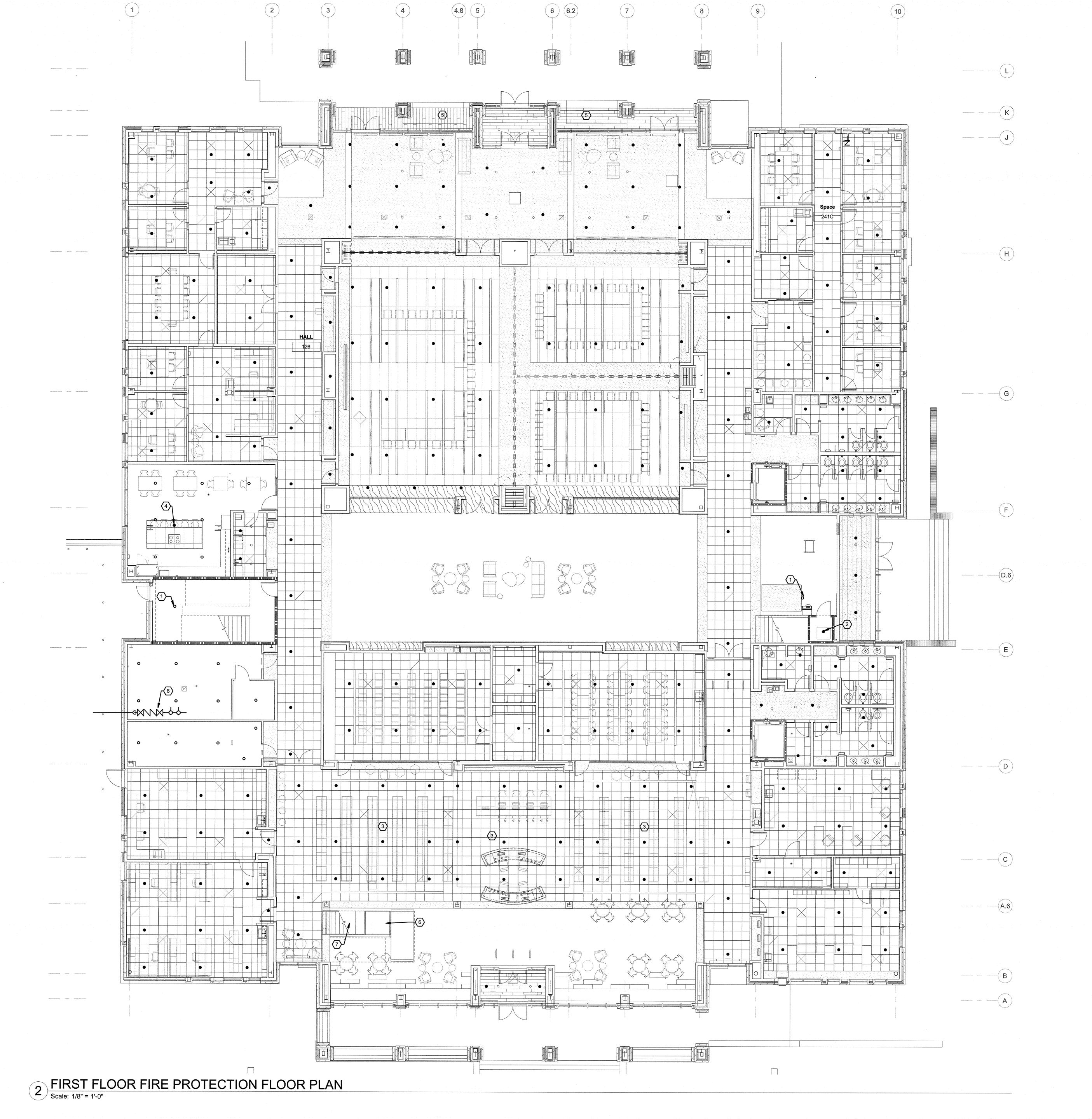
GAM ART, REW

HARNETT COUNTY GOVERNMENT SERVICES

514-8066-00

FIRE PROTECTION SYMBOLS, **ABBREVIATIONS &**

F-001



KEYED NOTES:

LANDING.

- 1 PROVIDE UPRIGHT SPRINKLER COVERAGE UNDER STAIRS.
- 2 PROVIDE SPRINKLER HEAD IN SMALL ROOM UNDER STAIRS.
- 3 TRIANGULAR CEILING TILES IN THIS AREA WILL HAVE SPECIAL LAYOUT FOR SPRINKLER HEAD SEE 4/F-501 FOR MORE INFORMATION.
- 4 PENDENT SPRINKLER HEAD IN THE DROP CEILING.
- 5 PROVIDE DRY FLEXIBLE PENDANT FOR COVERAGE UNDER OVERHANG DUE TO SPRINKLERED OCCUPANCY ABOVE.
- 6 PROVIDE CONCEALED PENDENT UNDER EXPOSED STAIR
- 7 PROVIDE TAMPER RESISTANT INSTITUTIONAL SPRINKLER LOCATED IN READING NOOK LOCATED UNDER STAIRS.
- 8 6" RPDA FOR FIRE SERVICE. SEE DETAIL 1/F-501 FOR MORE INFORMATION.

Dewberry

410 Blackwell Street, Suite 10 Durham, NC 27701 T: 919.474.2500

www.littleonline.com

This drawing and the design shown are the property of Little Diversified Architectural

to legal action.

Consulting. The reproduction, copying or other

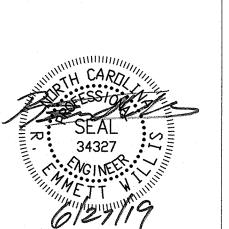
use of this drawing without their written consent is probibited and any infringement will be subject

— © Little 2018—

strong roots • new growth

Harnett

Dewberry Engineers Inc. 2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 FAX: 919.881.9923 NCBELS # F-0929



CONSTRUCTION DOCUMENTS

SMOKE BARRIER

1-HOUR

O RATE	ED WALLS & P	PROJECT NAME HARNETT COUNTY GOVERNMENT SERVICES CENTER		
	FIRE BARRIER FIRE & SMOKE BARRIER			
1-HOUR		1-HOUR	NUMUMI	
2-HOUR		2-HOUR		
3-HOUR		3-HOUR		
				PROJECT NO.
	FIRE WALL		FIRE PARTITION	E44 0000 00
2-HOUR		0.5-HOUR	[O] [O]	514-8066-00
3-HOUR		1-HOUR		SHEET TITLE
4-HOUR				FIRST FLOOR RCP PLAN

SMOKE PARTITION

0-HOUR

FIRST FLOOR RCP PLAN

• — — (H) • — - (G) Produced Resident Produced STATE OF THE STATE

(4.8) (5)

KEYED NOTES:

1 PIPING TO BE ROUTED WITHIN COLUMN WRAP UP TO SPRINKLER HEADS IN CLEAR STORY.



410 Blackwell Street, Suite 10
Durham, NC 27701
T: 919.474.2500
Www.littleonline.com

This drawing and the design shown are the property of Little Diversified Architectural Consulting. The reproduction, copying or other

to legal action.

© Little 2018

Harnett
C 0 U N T Y

use of this drawing without their written consent is prohibited and any infringement will be subject

Dewberry

strong roots • new growth

Dewberry Engineers Inc.
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
FAX: 919.881.9923
NCBELS # F-0929



CONSTRUCTION DOCUMENTS

NO. REASON DATE

HARNETT COUNTY GOVERNMENT SERVICES

PROJECT TEAM
PRINCIPAL IN CHARGE
MBW
PROJECT MANAGER
GAM

CENTER

514-8066-00

O RATED WALLS & PARTITIONS

0-HOUR

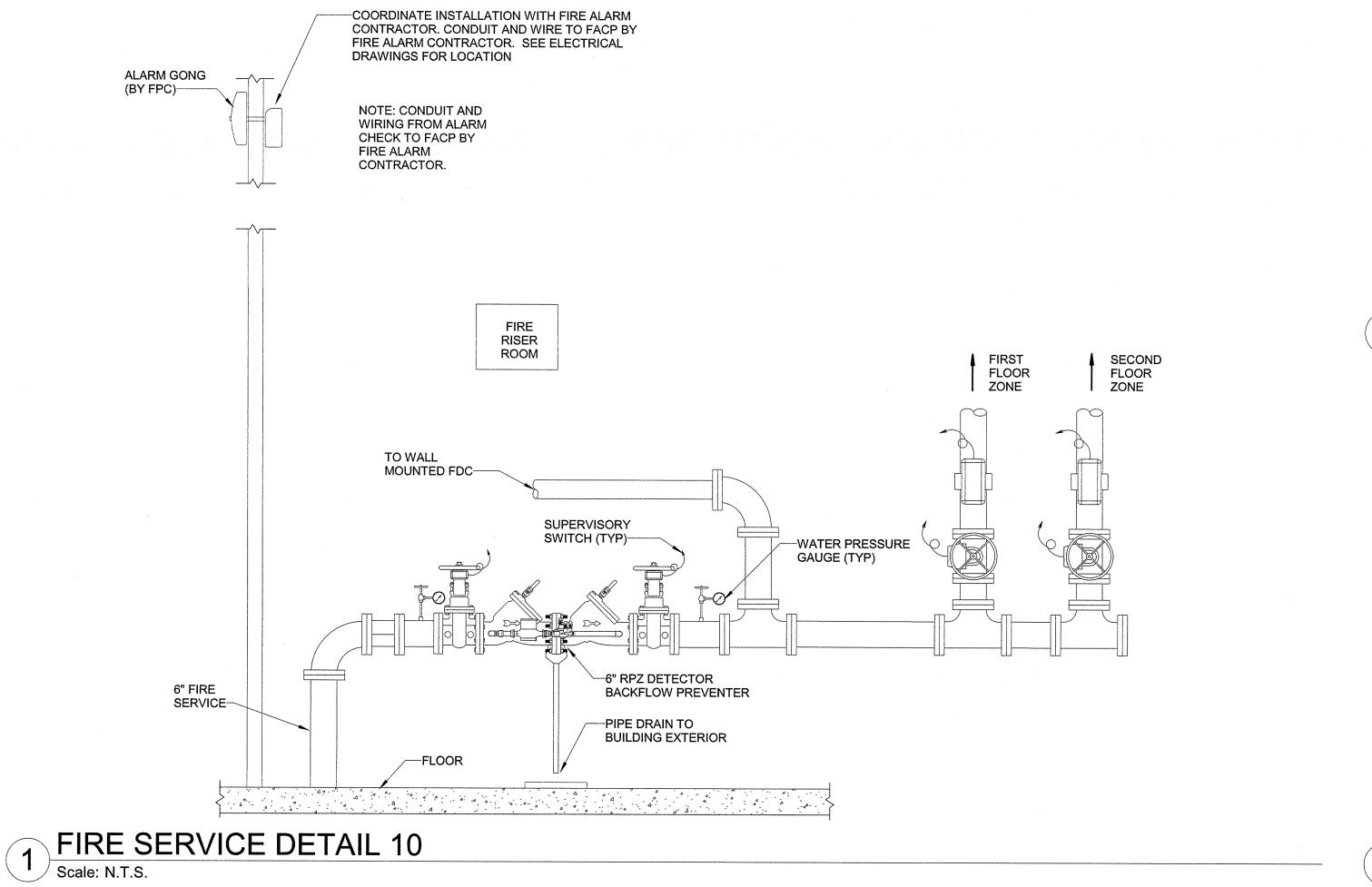
	FIRE BARRIER	FIR	E & SMOKE BAR
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	IIV//IIIV/
	FIRE WALL		FIRE PARTITION
2-HOUR		0.5-HOUR	[0]
3-HOUR		1-HOUR	
4-HOUR			

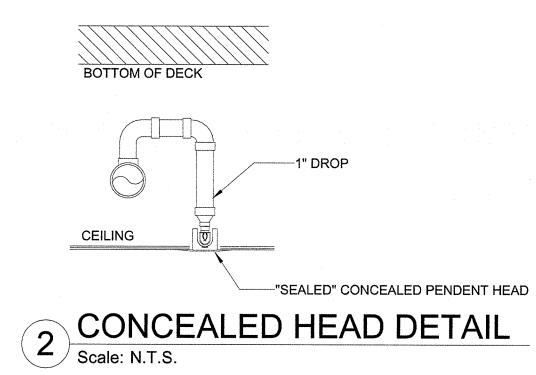
SMOKE PARTITION SMOKE BARRIER

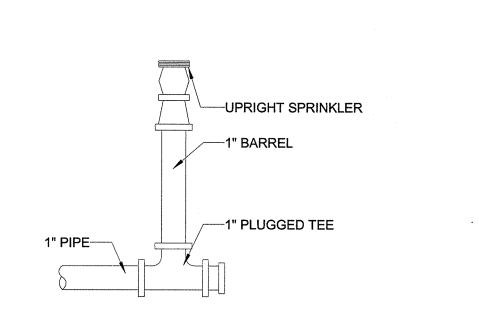
1-HOUR

SECOND FLOOR RCP PLAN

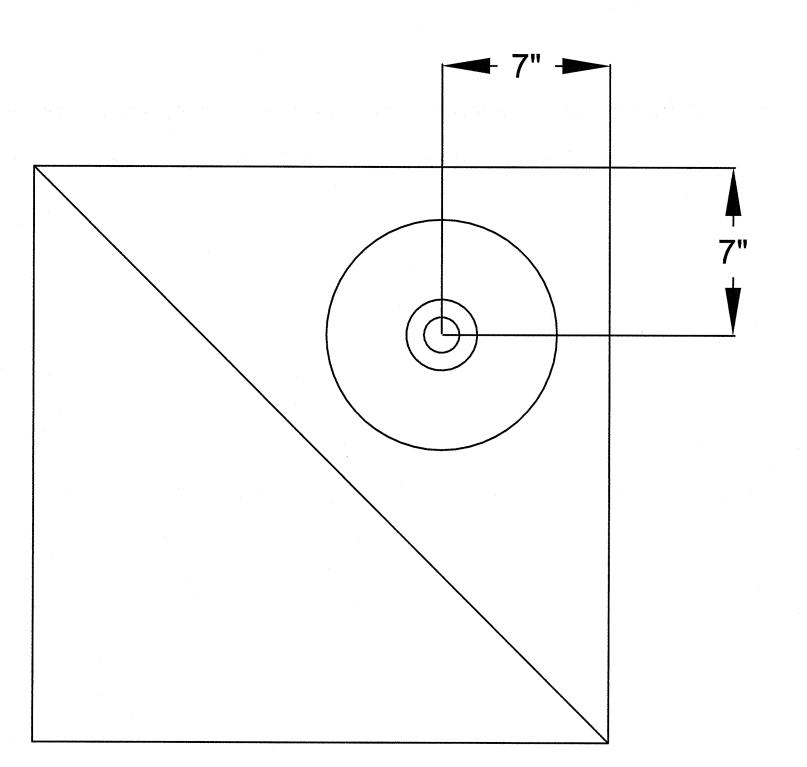
F-122







3 UPRIGHT SPRINKLER DETAIL Scale: N.T.S.



NOTE:

- CENTER HEADS IN TRIANGULAR SECTIONS OF CEILING GRID AS INDICATED.

4 HEAD PLACEMENT DETAIL - TRIANGULAR CEILING
Scale: N.T.S.



410 Blackwell Street, Suite 10 Durham, NC 27701 T: 919.474.2500

www.littleonline.com

This drawing and the design shown are the

This drawing and the design shown are the property of Little Diversified Architectural Consulting. The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action.

© Little 2018—



Dewberry

Dewberry Engineers Inc.
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
FAX: 919.881.9923
NCBELS # F-0929



CONSTRUCTION DOCUMENTS

06.27.2019

NO. REASON DA

PROJECT TEAM
PRINCIPAL IN CHARGE
MBW
PROJECT MANAGER
GAM

HARNETT COUNTY
GOVERNMENT SERVICES
CENTER

PROJECT NO. 514-8066-00

SHEET TITLE

DETAILS

F-501