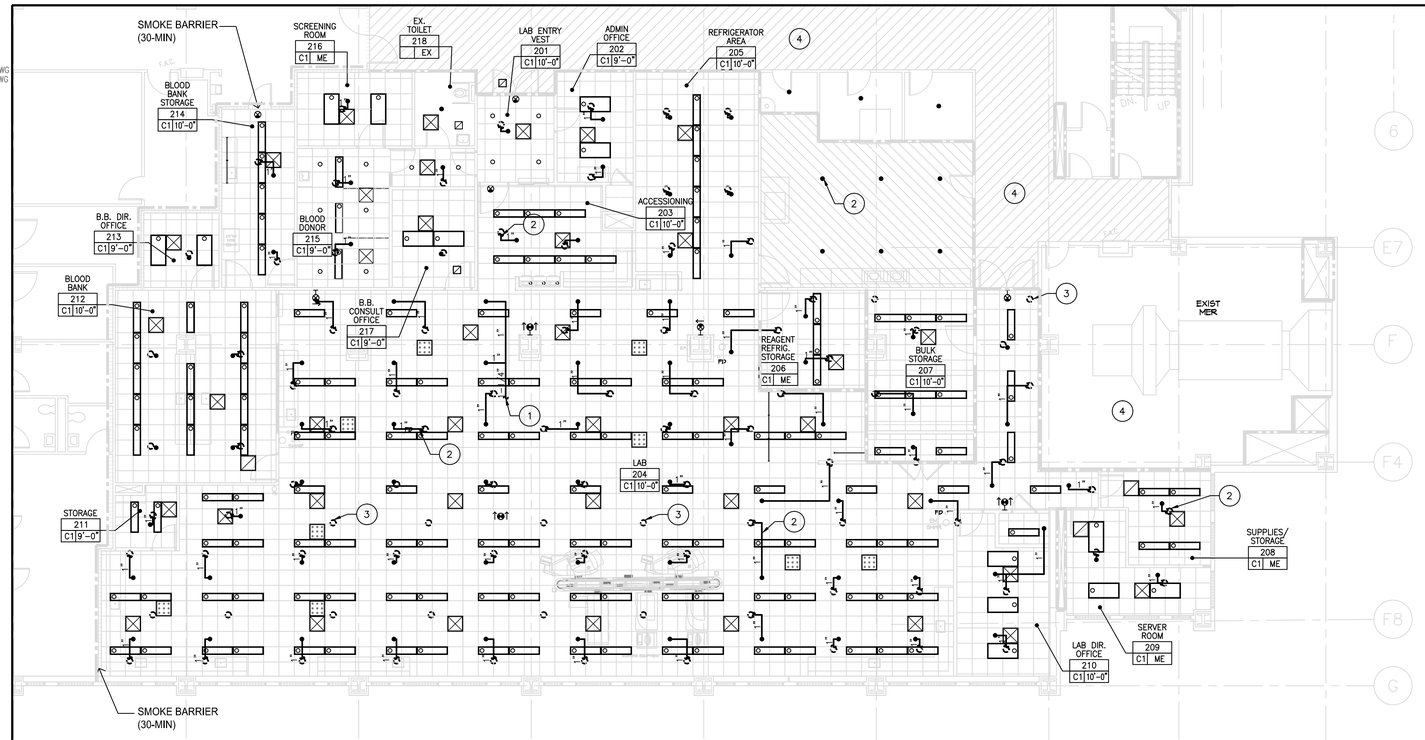
Plot Drawing
1925100-A1b.dwg
Working Drawing

Reference Drawings
Q:\1925100
\VAB30X42.DWG
\VABCL2.DWG
\VABEX2-OPTB.DWG
\VABFL2-OPTB.DWG



1 FX101 SPRINKLER PROPOSED SECOND FLOOR LABORATORY PLAN

1/8" = 1'-0"

LEGEND

- EXISTING SPRINKLER HEAD TO BE REMOVED
- NEW 1/2" QUICK RESPONSE PENDENT HEAD
- 1" NEW SPRINKLER PIPING

GENERAL NOTES

1. THE SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA #13, LATEST EDITION AND VA SPECS.
2. CONTRACTOR TO NOTE THAT THE LOCATIONS OF EXISTING SPRINKLER HEADS ARE APPROXIMATED. THE CONTRACTOR SHALL BE REPSONSIBLE FOR VERIFYING EXACT LOCATIONS IN FIELD.
3. NEW SPRINKLER HEADS SHALL BE QUICK RESPONSE PENDENT HEADS IN AREAS, UL LISTED AND FM APPROVED. NEW HEADS SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE SIZE OF NEW SPRINKLER PIPE TO EACH HEAD SHALL BE MIN. 1". PROVIDE ELBOWS & FITTING AS REQUIRED. CHECK IN FIELD.
4. NEW SPRINKLER PIPING SHALL BE SCHEDULE 40, STANDARD WEIGHT PIPE, WITH THREADED FITTINGS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SHUTDOWN AND/OR TO ISOLATE SECTIONS OF SPRINKLER SYSTEM, AND DRAIN WATER FROM THE SYSTEM TO ACCOMMODATE THE MODIFICATION OF SPRINKLER PIPING. RESTORE THE SYSTEM AS REQUIRED. COORDINATE WITH PROJECT MANAGER.
6. SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH SECT. 8-2.2 OF THE ABOVE REFERENCED CODE.
7. ALL SPRINKLER PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECT. 2-6 OF THE ABOVE REFERENCED CODE.
8. FIELD ADJUSTMENTS MAY BE NECESSARY TO CONFORM TO ACTUAL LOCATIONS OF MECHANICAL EQUIPMENT AND STRUCTURAL ELEMENTS.
9. SPRINKLER PIPING MAINS AND BRANCH PIPING ARE RUN IN INTERSTITIAL SPACE ABOVE.

EXISTING DESIGN CRITERIA

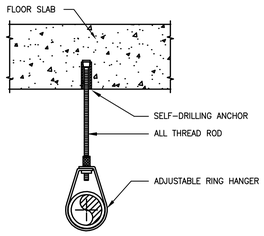
1. 2nd FLOOR – NEW HEALTH CARE OCCUPANCY
2. TYPE OF HAZARD: LIGHT HAZARD
3. AREA OF APPLICATION: 1,500 SF
4. DENSITY: 0.1 GPM/SF
5. REMOTE SPRINKLER HEAD PRESSURE: 7 PSI (MIN.)
6. TYPE OF SYSTEM: WET
7. SPRINKLER HEAD: PENDENT , 165°F
8. SPRINKLER SIZE: 1/2" DIA. (ORIFICE).
9. K-FACTOR: 5.62
10. C-FACTOR: 120

CONTRACTOR'S NOTES

1. SPRINKLER CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COMPLETE WORKING PLANS, SECTIONS/ ELEVATIONS, HYDRAULIC CALCULATIONS BASED ON RESULTS OF FIRE-HYDRANT FLOW TEST REPORT AND PREPARED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK.
2. THE SPRINKLER CONTRACTOR SHALL PERFORM ALL FIRE PROTECTION WORK IN ACCORDANCE WITH DESIGN CRITERIA AND NFPA-13 REQUIREMENTS, AND OBTAIN DESIGN APPROVAL, AND INSPECTION APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

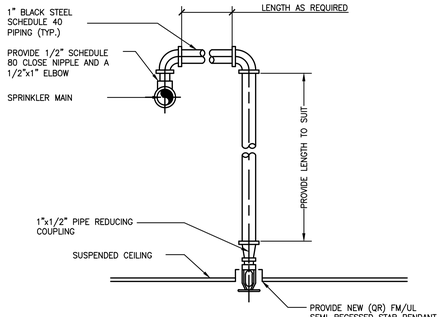
FIRE PROTECTION KEY NOTES

1. NEW SPRINKLER PIPE. CONNECT TO EXISTING MAIN ON INTERSTITIAL MECHANICAL FLOOR ABOVE. CHECK IN FIELD.
2. NEW 1" SPRINKLER PIPE CONNECT TO EXISTING. CHECK IN FIELD MAY REQUIRE ROUTING IN INTERSTITIAL MECHANICAL FLOOR ABOVE. PATCH PENETRATIONS AS REQUIRED (TYP.)
3. EXISTING SPRINKLER HEAD TO BE REMOVED. PATCH PENETRATIONS AS REQUIRED (TYP.)
4. EXISTING SPRINKLERS TO REMAIN. AREA OUTSIDE AREA OF RENOVATION.



2 FX101 PIPE HANGER DETAIL

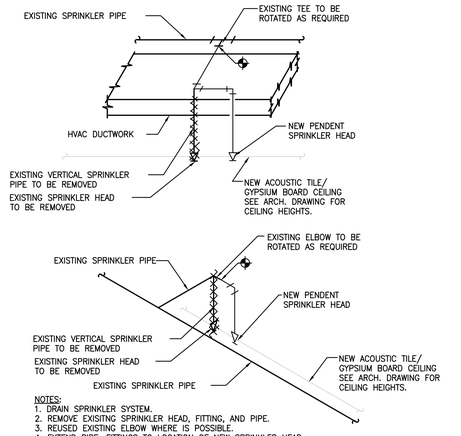
NOT TO SCALE



NOTES:
1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS CEILING "T" BAR SUSPENSION SYSTEM. LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24"
2. ALL NEW PENDENT HEADS SHALL BE FM APPROVED, SEMI-RECESSED, QUICK RESPONSE TYPE.
3. ALL NEW HEADS SHALL BE CENTER OF TILE
4. USE OF FLEXI-PIPE FOR SPRINKLER PIPING IS PROHIBITED.

3 FX101 SPRINKLER HEAD DROP DETAIL

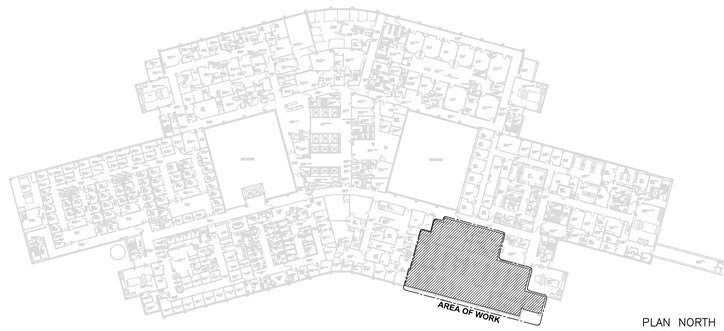
NOT TO SCALE



NOTES:
1. DRAIN SPRINKLER SYSTEM.
2. REMOVE EXISITNG SPRINKLER HEAD, FITTING, AND PIPE.
3. REUSED EXISTING ELBOW WHERE IS POSSIBLE.
4. EXTEND PIPE, FITTINGS TO LOCATION OF NEW SPRINKLER HEAD.
5. REFILL SPRINKLER SYSTEM.

4 FX101 REPLACEMENT SPRINKLER HEAD PIPING HOOK-UP

NOT TO SCALE



KEY PLAN
NOT TO SCALE

PLAN NORTH
ACTUAL NORTH

DESIGN APPROVED W/ COMMENT:	CONSULTANTS:		ARCHITECT/ENGINEERS:	Drawing Title: PROPOSED SPRINKLER SECOND FLOOR LABORATORY PLAN	Project Title: LABORATORY RENOVATION 100% CD SUBMISSION NK Job Number: 1925.400 LAN Job Number 4.1160.03	Project Number: 526-09-122
	LAN ASSOCIATES LLP engineering • planning • architecture • surveying 252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350		NADASKAY KOPELSON ARCHITECTS ARCHITECTURE ENGINEERING PLANNING INTERIORS 85 WASHINGTON STREET MORRISTOWN, NJ 07960 T: (973) 538-5353 F: (973) 538-1616 116 JOHN STREET, New York, NY 10038 T: (212) 661-7660 F: (212) 661-8111	Approved: Project Director	Location: BRONX, NY Date: 03/09/11 Checked: SS Drawn: EK	Building Number: 100 Drawing Number: FX 101 Dwg. of	Office of Facilities Management Department of Veterans Affairs

VA FORM 08-6231, OCT 1978