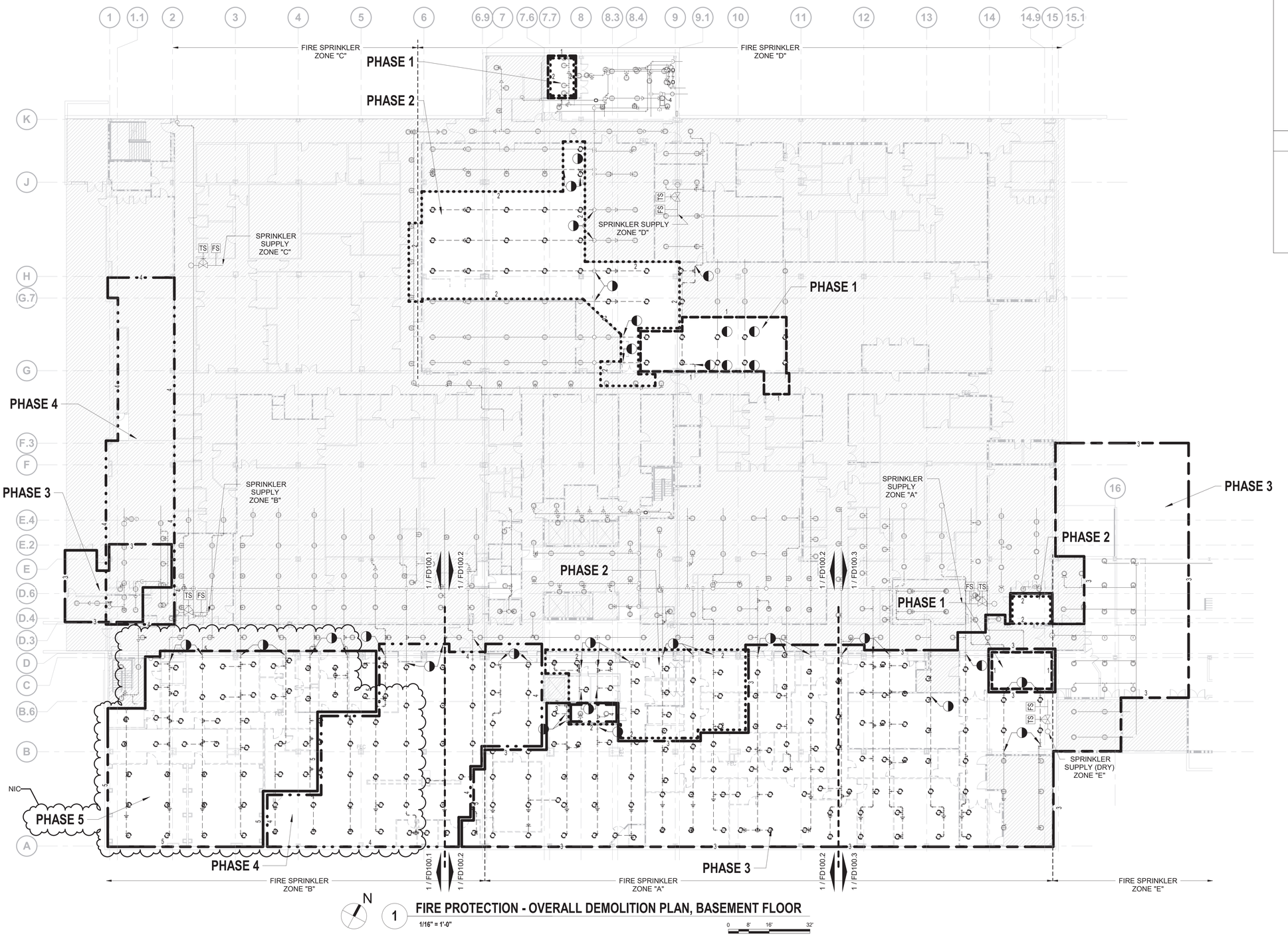
PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION
- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5 — NIC

GENERAL FIRE PROTECTION DEMOLITION NOTES

A. THIS OVERALL PLAN IS INTENDED TO GIVE AN OVERVIEW OF THE WORK. REFER TO CORRESPONDING ENLARGED PLANS FOR DETAILED INFORMATION.

B. REVIEW THIS DRAWING IN CONJUNCTION WITH SHEETS GI401 & GI403 AND CORRESPONDING ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND FOODSERVICE DEMOLITION AND NEW WORK DRAWINGS FOR A FULL SCOPE OF PROJECT CONSTRUCTION PHASING. THIS INFORMATION IS SUGGESTED, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL PHASED CONSTRUCTION PLANNING, SEQUENCING, MEANS, METHODS, PROCEDURES, COORDINATION AND PERFORMANCE OF THE WORK.



N

1 FIRE PROTECTION - OVERALL DEMOLITION PLAN, BASEMENT FLOOR

1/16" = 1'-0"

0 8' 16' 32'

BASEMENT KEY PLAN

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
60% DESIGN DEVELOPMENT SUBMISSION	09/11/2020
30% SCHEMATIC DESIGN SUBMISSION	05/24/2020
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS
700 Nicholas Blvd. Suite 300
Elk Grove Village, IL 60007
T:847.952.9362 F:847.952.9403
www. bancroft-ae.com

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - OVERALL DEMOLITION PLAN, BASEMENT FLOOR

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Project Number: 613-19-103

Building Number: 500

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Issue Date: 11/24/21 | Checked: JPK | Drawn: TE

Drawing Number: FD100

VA FORM 08-6231

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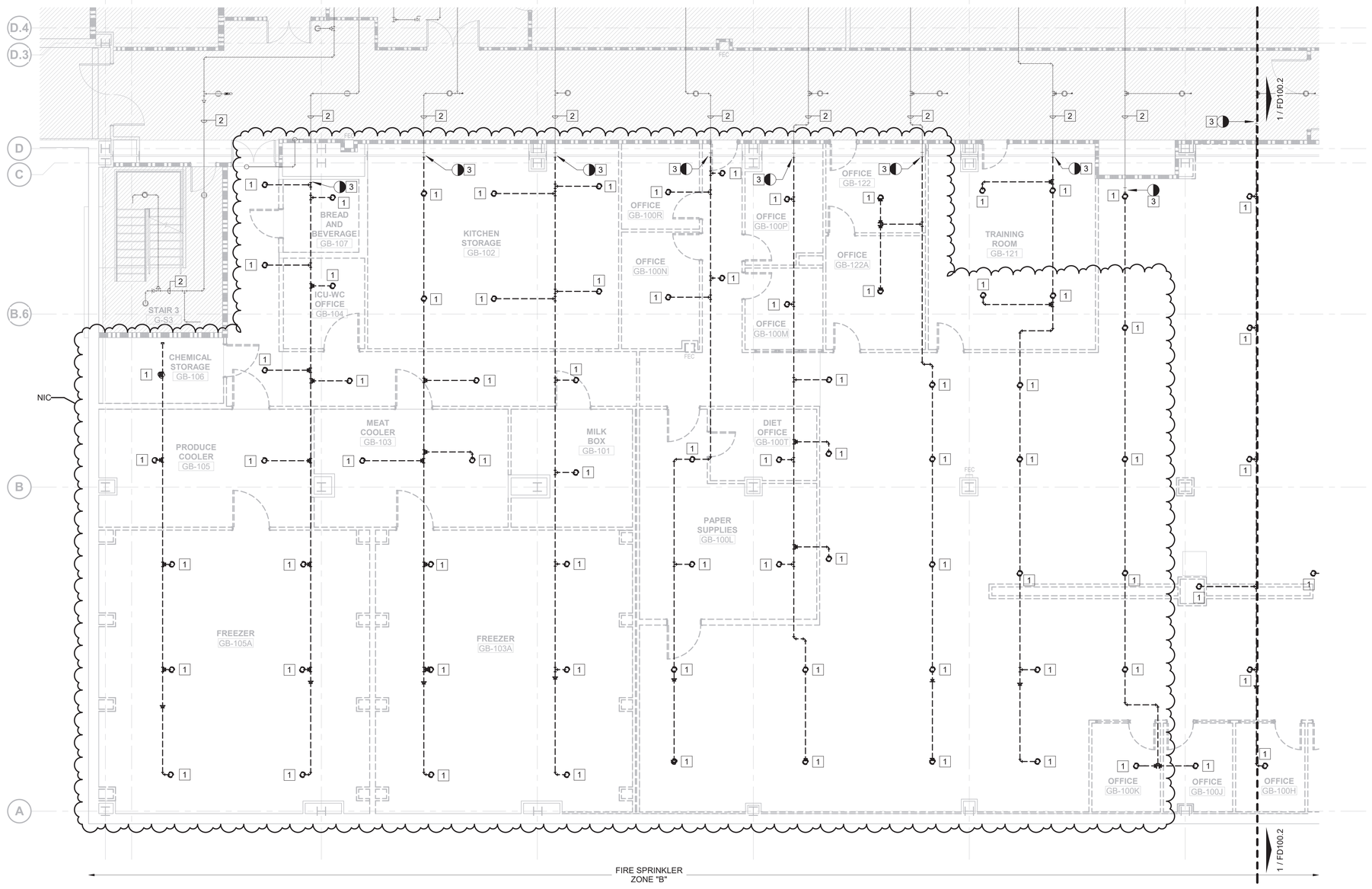

N

1 FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 1

3/16" = 1'-0"

0 4' 8' 12'

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION

GENERAL FIRE PROTECTION DEMOLITION NOTES

A. CONTRACTOR TO COORDINATE WITH VA COR FOR ALL FIRE PROTECTION SERVICE OUTAGES.

B. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL. FOR GENERAL INFORMATION ONLY AND NOT AN EXACT INDICATOR OF PIPE OR SPRINKLER HEAD LOCATIONS.

C. FIRE SPRINKLER MAINS LOCATED IN THE INTERSTITIAL SPACE SHALL REMAIN AS IS. BRANCH PIPING AND SPRINKLER HEADS WILL BE REVISED TO FIT NEW ARCHITECTURAL LAYOUT.

D. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET OR EXCEED FORMER CONDITIONS.

F. AREA OF WORK WHERE EXISTING CEILINGS ARE TO BE REMOVED AND NEW FINISHED CEILING TO BE INSTALLED; ALL EXISTING MOUNTED ITEMS SHALL BE REMOVED, STORED AND REINSTALLED IN THE SAME LOCATION.

G. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL.

H. FIELD VERIFY EXACT SPRINKLER HEAD AND BRANCH PIPING LOCATIONS AND ROUTING.

I. PRIOR TO START OF DEMOLITION WORK, GC SHALL ENSURE THAT A CURRENT VA PROVIDED HAZARDOUS MATERIAL SURVEY HAS BEEN CONDUCTED IDENTIFYING ALL HAZARDOUS MATERIAL FOUND IN SOW AREAS. GC TO VERIFY QUANTITIES AND LOCATIONS OF ALL HAZARDOUS MATERIALS FOUND TO BE REMOVED PRIOR TO DEMOLITION. REMOVAL TO BE IN ACCORDANCE WITH ANY REGULATORY PLANS OR APPROVALS IN STATE OF WEST VIRGINIA.

FIRE PROTECTION DEMOLITION KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING AUTOMATIC SPRINKLER HEADS.
2. EXISTING AUTOMATIC SPRINKLER VALVES, PIPING, AND HEADS TO REMAIN.
3. DISCONNECT AND REMOVE EXISTING AUTOMATIC SPRINKLER PIPING FROM THIS POINT. EXAMINE REMAINING FITTING THREADS OR COUPLING TO VERIFY INTEGRITY FOR NEW CONNECTION.

BASEMENT KEY PLAN - AREA 1

NOT TO SCALE

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
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30% SCHEMATIC DESIGN SUBMISSION	05/24/2020
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

VA CONTRACT NO: 36C24519C0171

Drawing Title: FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 1	Phase: BID DOCUMENTS SUBMITTAL	Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN	Project Number: 613-19-103
			Building Number: 500
Approved: Project Director	FULLY SPRINKLERED	Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405	Drawing Number: FD100.1
		Issue Date: 11/24/21 / Checked: JPK / Drawn: TE	

VA FORM 08-6231

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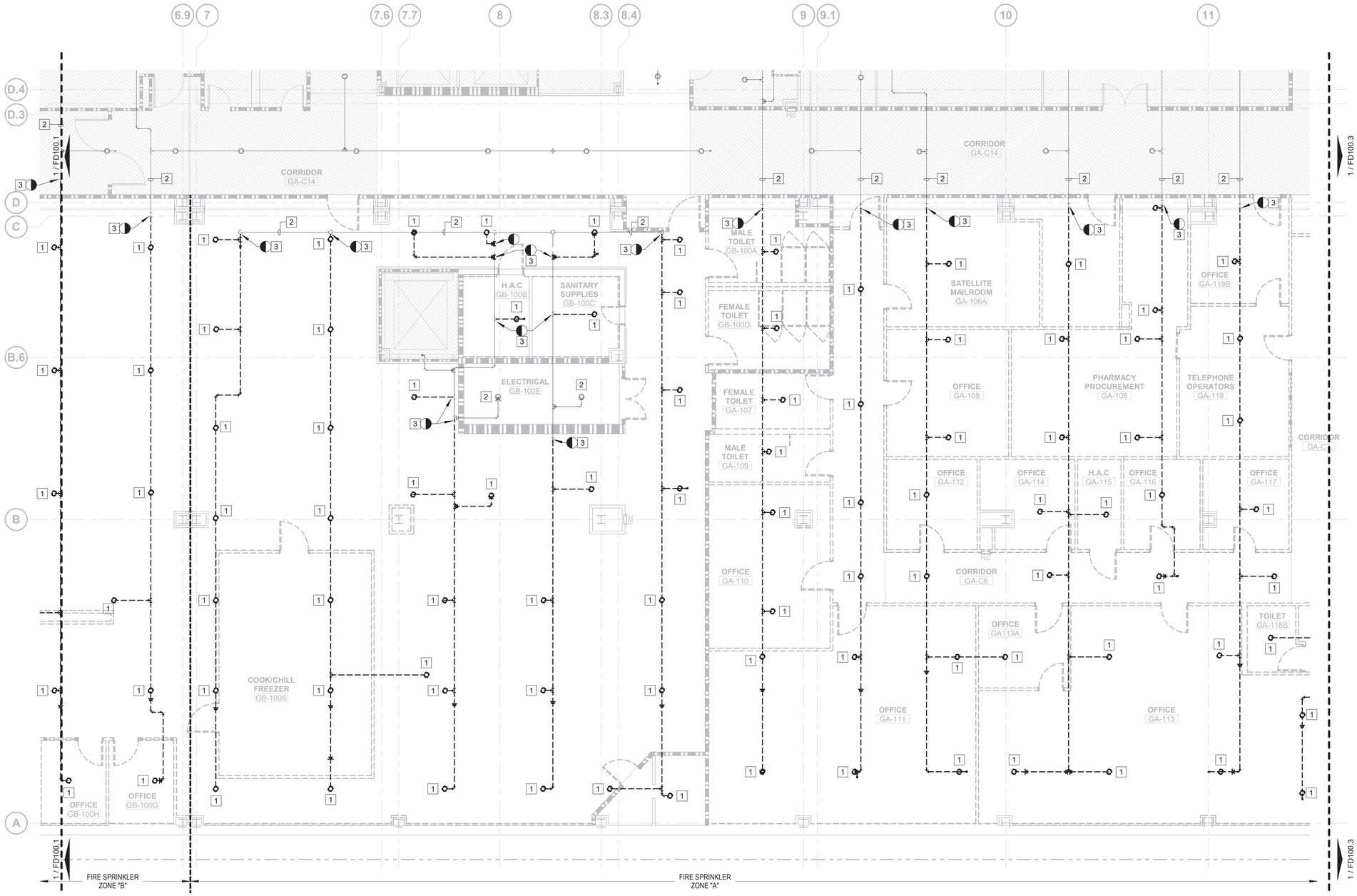

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION

GENERAL FIRE PROTECTION DEMOLITION NOTES

A. CONTRACTOR TO COORDINATE WITH VA COR FOR ALL FIRE PROTECTION SERVICE OUTAGES.

B. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL. FOR GENERAL INFORMATION ONLY AND NOT AN EXACT INDICATOR OF PIPE OR SPRINKLER HEAD LOCATIONS.

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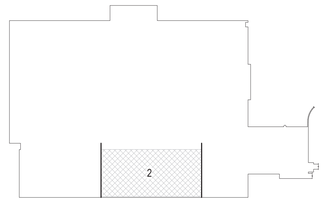
N

1 FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 2

3/16" = 1'-0"

0 4' 8' 12'



BASEMENT KEY PLAN - AREA 2

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
60% DESIGN DEVELOPMENT SUBMISSION	09/11/2020
30% SCHEMATIC DESIGN SUBMISSION	05/24/2020
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 2

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Issue Date: 11/24/21

Checked: JPK

Drawn: TE

Project Number: 613-19-103

Building Number: 500

Drawing Number: FD100.2

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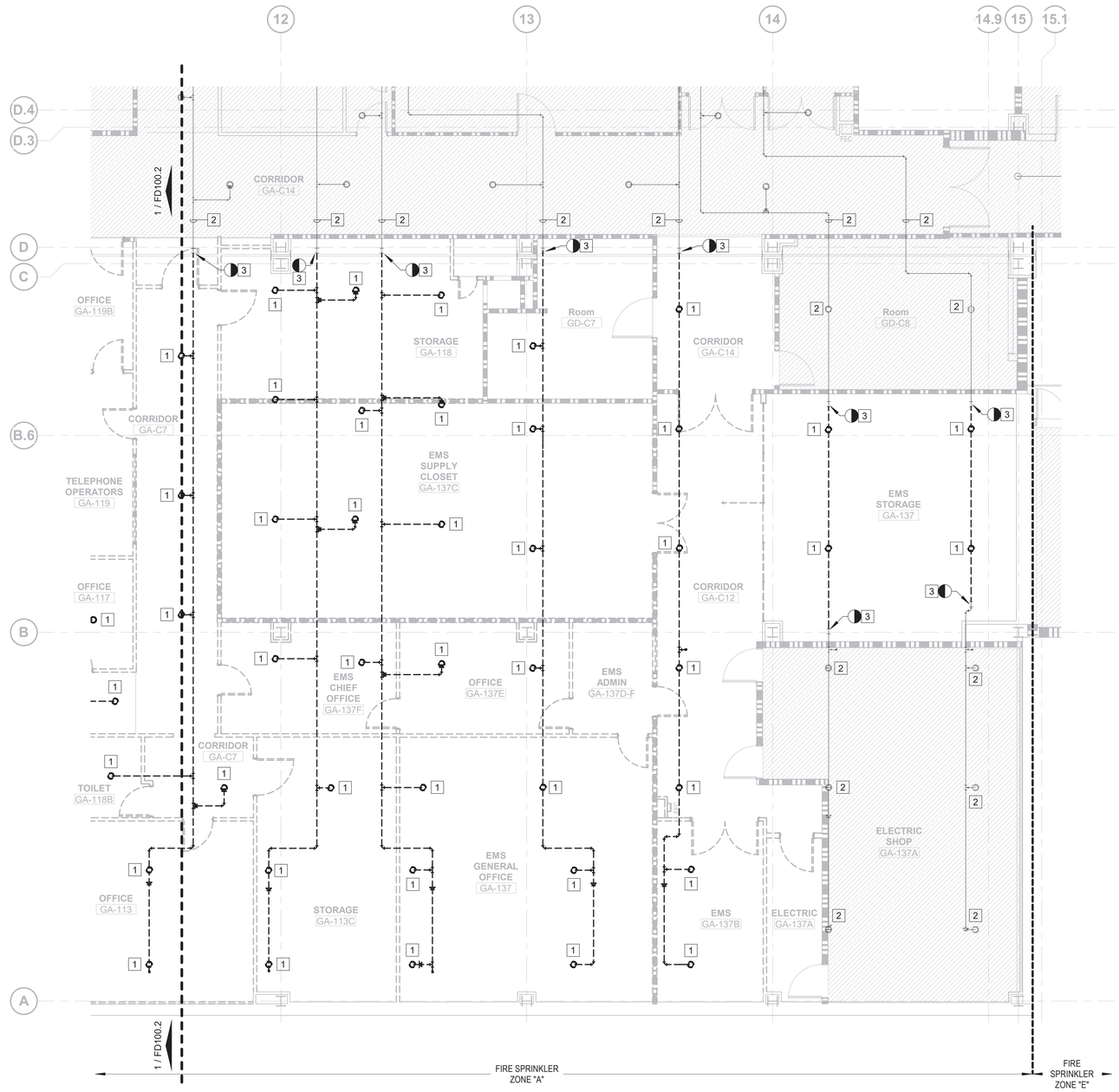

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION

GENERAL FIRE PROTECTION DEMOLITION NOTES

A. CONTRACTOR TO COORDINATE WITH VA COR FOR ALL FIRE PROTECTION SERVICE OUTAGES.

B. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL. FOR GENERAL INFORMATION ONLY AND NOT AN EXACT INDICATOR OF PIPE OR SPRINKLER HEAD LOCATIONS.

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N

1 FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 3

3/16" = 1'-0"

0 4' 8' 12'

BASEMENT KEY PLAN - AREA 3

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
60% DESIGN DEVELOPMENT SUBMISSION	09/11/2020
30% SCHEMATIC DESIGN SUBMISSION	05/24/2020
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 3

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Issue Date: 11/24/21 | Checked: JPK | Drawn: TE

Project Number: 613-19-103

Building Number: 500

Drawing Number: FD100.3

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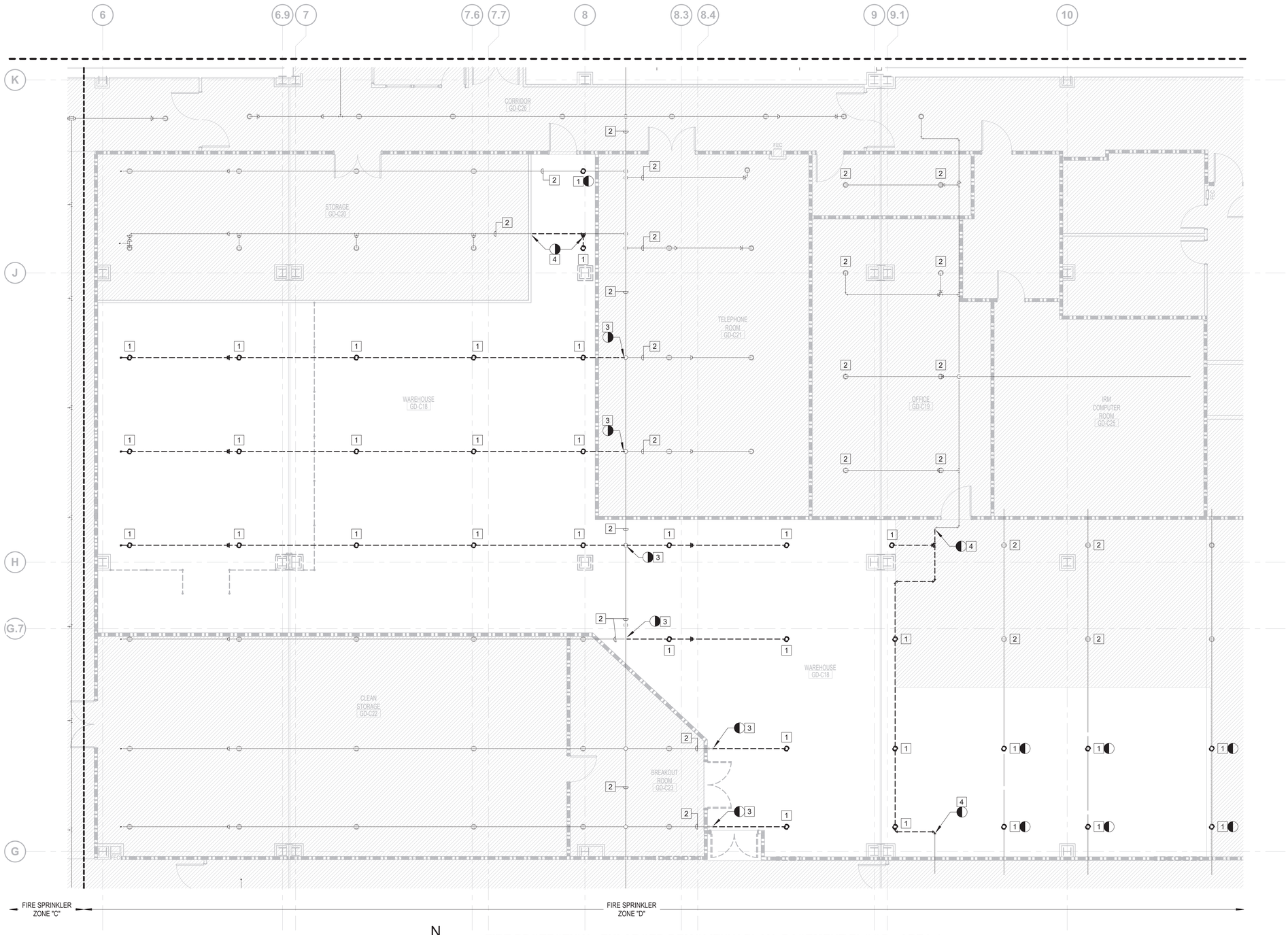
VA FORM 08-6231



N

1 FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 4

3/16" = 1'-0"

0 4' 8' 12'

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION

GENERAL FIRE PROTECTION DEMOLITION NOTES

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B. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL. FOR GENERAL INFORMATION ONLY AND NOT AN EXACT INDICATOR OF PIPE OR SPRINKLER HEAD LOCATIONS.

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G. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL.

H. FIELD VERIFY EXACT SPRINKLER HEAD AND BRANCH PIPING LOCATIONS AND ROUTING.

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FIRE PROTECTION DEMOLITION KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING AUTOMATIC SPRINKLER HEADS.
2. EXISTING AUTOMATIC SPRINKLER VALVES, PIPING, AND HEADS TO REMAIN.
3. DISCONNECT AND REMOVE EXISTING AUTOMATIC SPRINKLER PIPING FROM THIS POINT. EXAMINE REMAINING FITTING THREADS OR COUPLING TO VERIFY INTEGRITY FOR NEW CONNECTION.
4. COORDINATE REMOVAL AND RECONNECTION OF AUTOMATIC SPRINKLER HEADS AND SPRINKLER PIPING WITH WORK ON FX100.4. PHASING OF WORK SHALL ASSURE ADEQUATE FIRE PROTECTION FOR ASSOCIATED AREAS DOWNSTREAM DURING CONSTRUCTION.

BASEMENT KEY PLAN - AREA 4

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
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Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - ENLARGED DEMOLITION PLAN, BASEMENT FLOOR - AREA 4

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Issue Date: 11/24/21 | Checked: JPK | Drawn: TE

Project Number: 613-19-103

Building Number: 500

Drawing Number: FD100.4

FIRE PROTECTION GENERAL NOTES

ENGINEERING DISCIPLINE REFERENCE NOTES

GENERAL NOTES FOR CONTRACTORS: SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL WORK LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED HEREIN.

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN (BOD) COMPLIANCE PROTOCOLS" ARE TO BE FOLLOWED FOR ALL MATERIALS, EQUIPMENT, ASSEMBLIES AND SYSTEMS SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS, WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE SPECIFIC BOD COMPLIANCE REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

1. THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL DRAWIINGS AND ENTIRE PROJECT MANUAL. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THEIR WORK. THE CONTRACTOR SHALL FULLY COORDINATE THEIR WORK WITH THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL CHARGE TO THE VA/GOVERNMENT.
2. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VA/CO AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF OTHER TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTING CONDITIONS EXIST.
3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE VA/GOVERNMENT.
4. THIS CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, ON THE DRAWINGS WITHOUT DEVIATION FROM THE BOD.
5. IT IS THE INTENT OF THESE DOCUMENTS THAT THE FIRE PROTECTION CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS AND APPURTENANCES REQUIRED TO SET NEW AND MODIFIED SYSTEMS INTO OPERATION.
6. SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENTS, OR IF PIPING CAN BE RUN TO BETTER ADVANTAGE, PREPARE AND SUBMIT SHOP DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED BY THE VA/COR AND SUCCESSFULLY REVIEWED BY THE A/E, THEY SHALL BECOME A PART OF THE CONTRACT.
7. THIS CONTRACTOR SHALL VERIFY ALL MOUNTING, ALL ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, WEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT FEDERAL BUILDING CODES, REGULATIONS, AND REQUIREMENTS, LOCAL UTILITY COMPANY REQUIREMENTS,NFPA, IPC, AND ASHRAE STANDARDS. ALL COMPONENTS SHALL BE UL LISTED AND FM APPROVED.
9. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.
10. THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR THE PERIOD OF ONE YEAR. FROM FINAL ACCEPTANCE BY THE VA/GOVERNMENT.
11. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, IN., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.
12. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR AND EQUIPMENT FURNISHED BY VA/GOVERNMENT FROM DAMAGE BY VANDALISM AND WEATHER DURING CONSTRUCTION.
13. THIS CONTRACTOR SHALL PROVIDE A COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE VA/GOVERNMENT IN THE OPERATION AND MAINTENANCE OF THE NEW EQUIPMENT.
14. UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES. REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTONS BY THIS CONTRACTOR.
15. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL MEMBERS, SLEEVES, AND SHIMS REQUIRED TO LEVEL AND SUPPORT EQUIPMENT AND PIPES.
16. BEFORE PLACING WATER SYSTEM IN OPERATION, CHLORINATE ENTIRE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL PLUMBING CODES, SUPPLY CERTIFICATE.
17. EXISTING SERVICE VALVES AT ALL BRANCH SUPPLY PIPING SHALL REMAIN AS IS. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS AND/OR IN KEEPING WITH THE FACILITY STANDARDS.
18. THE FIRE PROTECTION SYSTEM SHALL BE A HYDRAULICALLY DESIGNED WET PIPE SYSTEMS, DESIGNED AND INSTALLED BY THE SPRINKLER CONTRACTOR IN ACCORDANCE WITH NFPA 13. THE SPRINKLER SYSTEM SHALL BE COMPLETE AND SHALL INCLUDE ALL PIPING, FITTINGS, VALVES, SPRINKLER HEADS, HANGERS, AND SUPPORT, ALARMS AS WELL AS MISCELLANEOUS MATERIAL ITEMS NECESSARY FOR SATISFACTORY OPERATION OF THE SYSTEM.
19. SPRINKLER HEADS SHALL BE LOCATED IN CEILING GRID IN A SYMMETRICAL PATTERN, COORDINATED WITH OTHER DEVICES MOUNTED IN OR ON THE CEILING. PROVIDE ADDITIONAL SPRINKLER HEADS REQUIRED TO ACHIEVE SYMMETRY. LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING TILES.
20. SPRINKLER CONTRACTOR SHALL PROVIDE A COORDINATED REFLECTED CEILING PLAN AS PART OF THE SUBMITTAL TO THE VA/COR SHOWING SPRINKLER HEAD LOCATIONS COORDINATED WITH CEILING AND ALL OBJECTS MOUNTED IN OR ON THE CEILING.

FIRE PROTECTION GENERAL NOTES

21. THE SPRINKLER CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF COMMERCIAL SPRINKLER SYSTEM AND SHALL HAVE HAD A MINIMUM OF THREE (3) YEARS OF EXPERIENCE IN THE INSTALLATION OF FIRE PROTECTION SPRINKLER SYSTEMS.
22. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN AND ENGINEERING OF THE SPRINKLER SYSTEM. THE SPRINKLER SYSTEM SHALL BE:
    A. A DESIGNED SYSTEM IN ACCORDANCE WITH NFPA 13, 2019 AND SPECIFICATION
    B. DESIGNED TO CONFORM WITH BUILDING STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEM, AS INDICATED AND DESCRIBED ON THE CONTRACT DOCUMENTS.
    C. ACCEPTABLE TO THE FIRE MARSHAL AND OR ALL LOCAL AUTHORITIES HAVING JURISDICTION.
23. THE SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE AUTHORITIES HAVING JURISDICTION, FULLY COORDINATED SHOP DRAWINGS, CAPACITY DATA, HYDRAULIC CALCULATIONS AND CATALOG CUTS OF PIPE, FITTINGS, SPRINKLER HEADS, HANGERS, SUPPORTS, VALVES, SPRINKLER, AND PIPING LAYOUT. DESIGN PLAN AND CALCULATIONS SHALL BE PREPARED AND SIGNED/SEALED BY A REGISTERED FIRE PROTECTION ENGINEER IN ACCORDANCE WITH UCF REQUIREMENT OR BY A NICET LEVEL III/IV TECHNICIAN.
24. THE SPRINKLER SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION CODE, AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
25. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTING OF ANY OR ALL PARTS OF THE WORK AS REQUIRED BY AUTHORITIES HAVING JURISDICTION AND PAY ALL CHARGES FOR SAME.
26. ALL SIZES AND CRITERIA ARE MINIMUM REQUIREMENT. ALL EQUIPMENT, PIPES, ETC. SHALL BE SIZED BY THE SPRINKLER CONTRACTOR.
27. ARCHITECT / ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE FLOW TEST DATA OR PERFORMING AN UPDATED FLOW TEST AS PER NFPA 13 AND NFPA 25.
28. SPRINKLER DRAINS SHALL DISCHARGE TO THE EXTERIOR OF THE BUILDING, IN A LOCATION THAT WILL NOT BE A NUISANCE OR CREATE A WET WALKING SURFACE.
29. AREA SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENT FOR OCCUPANCY PER NFPA 13.
30. THE AUTOMATIC WET FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN SUCH A MANNER TO PREVENT THE SYSTEM PIPING OR SPRINKLER HEAD EXPOSURE TO TEMPERATURES LESS THAN 40 DEGREES F.
31. PAINT NEW SPRINKLER PIPING RED AND LABEL PER NFPA 13.
32. ALL FIRE PROTECTION VALVES SHALL BE SUPERVISED.
33. CONTRACTOR SHALL PROVIDE COORDINATED PIPE SLEEVE DRAWINGS SHOWING ALL PENETRATIONS THROUGH FLOORS.
34. INSTALLER QUALIFICATIONS: CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE DESIGNING, FABRICATING AND INSTALLING FIRE-SUPPRESSION SYSTEMS AND PROVIDING PROFESSIONAL ENGINEERING SERVICES NEEDED TO ASSUME ENGINEERING RESPONSIBILITY. CALCULATIONS BASED ON RESULTS OF FIRE-HYDRANT FLOW TEST.
    A. ENGINEERING RESPONSIBILITY: PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS BY A QUALIFIED PROFESSIONAL ENGINEER OR NICET LEVEL III/IV TECHNICIAN.
35. WELDING: QUALIFY PROCESSES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE, SECTION IX.
36. NFPA STANDARDS: FIRE SUPPRESSION SYSTEM EQUIPMENT, SPECIALTIES, ACCESSORIES, INSTALLATION AND TESTING SHALL COMPLY WITH THE FOLLOWING:

    NFPA 13, 2019 INSTALLATION OF SPRINKLER SYSTEMS.
    NFPA 230, 2003 FIRE PROTECTION OF STORAGE.
    NFPA 101, 2018 LIFE SAFETY CODE.
    NFPA 72, 2019 FIRE ALARM CODE.

37. FIRE-SUPPRESSION SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION.
    A. MARGIN OF SAFETY FOR AVAILABLE WATER FLOW AND PRESSURE: 10 PERCENT, INCLUDING LOSSES THROUGH WATER-SERVICE PIPING, VALVES, AND BACKFLOW PREVENTERS.
38. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE VA/COR A COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. INCLUDING, BUT NOT BE LIMITED TO THE FOLLOWING:
    A. DIMENSIONED SHOP DRAWINGS OF MATERIALS, FIXTURES AND EQUIPMENT. DIMENSIONED SHOP DRAWINGS OF EQUIPMENT AND PIPING PLAN LAYOUT(S).
39. REQUIRED ITEMS TO BE SUBMITTED SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
    A. PRODUCT DATA.
    B. APPROVED SPRINKLER PIPING DRAWINGS: WORKING PLANS, PREPARED ACCORDING TO NFPA, AND HAVE BEEN APPROVED BY AUTHORITIES HAVING JURISDICTION, INCLUDING HYDRAULIC CALCULATIONS.
    C. FIELD QUALITY-CONTROL TEST REPORTS.
    D. FIELD TEST CERTIFICATES.
    E. OPERATION AND MAINTENANCE DATA.
    F. EQUIPMENT MANUALS.
    G. VALVE TAGS.
40. SPRINKLER SHALL BE THE APPROPRIATE TEMPERATURE RATING FOR LOCATION AND OCCUPANCY IN ACCORDANCE WITH NFPA 13.
41. SPRINKLER SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS (RCP), AND PROVIDE ADDITIONAL SPRINKLERS WHERE REQUIRED TO ACCOMODATE THE RCP LAYOUTS.
42. PROVIDE HIGH TEMPERATURE RATED SPINKLER HEADS IN VACINITY OF KITCHEN HOODS.

    PROVIDE DRY PIPE AUTOMATIC SPRINKLER HEADS FOR WALK-IN REFRIGERATORS AND FREEZERS.

    PROVIDE WITH LISTED SPRINKLER GUARD FOR INSTALLATION BELOW 7-FT AFF.

FIRE PROTECTION GENERAL NOTES

44. FLEXIBLE CONNECTORS:
    A. FLEXIBLE CONNECTORS SHALL HAVE MATERIALS SUITABLE FOR SYSTEM FLUID. INCLUDE 175 PSIG MINIMUM WORKING-PRESSURE RATING AND ENDS ACCORDING TO THE FOLLOWING:
        a. NPS 2 AND SMALLER: THREADED.
        b. NPS 2-1/2 AND LARGER: GROOVED FOR USE WITH GROOVED-END PIPE COUPLING.
    B. STAINLESS STEEL HOSE/STEEL PIPE, FLEXIBLE CONNECTORS: CORRUGATED, STAINLESS STEEL, INNER TUBING COVERED WITH STAINLESS-STEEL WIRE BRAID. INCLUDE STEEL NIPPLES OR FLANGES, WELDED TO HOSE.
    C. STAINLESS STEEL HOSE/STAINLESS STEEL PIPE, FLEXIBLE CONNECTORS: CORRUGATED STAINLESS STEEL. INNER TUBING COVERED WITH STAINLESS STEEL WIRE BRAID. INCLUDE STAINLESS STEEL NIPPLES OR FLANGES, WELDED TO HOSE.
    D. ALL CONNECTIONS AND FLEXIBLE HOSES SHALL BE FM APPROVED.

INTERIM LIFE SAFETY MEASURES - ILSM

1. CONTRACTOR WITH VA SUPERVISION WILL DRAIN THE FIRE PROTECTION ZONE FOR THE PROJECT AREA/SPACE.
2. CONTRACTOR TO THEN WORK ON FIRE PROTECTION PIPING AS INDICATED.
3. CONTRCTOR WITH VA SUPERVISION WILL THEN REFILL THE FIRE PROTECTION SYSTEM WITH WATER.
4. CONTRACTOR SHALL INSPECT ALL TEMPORARY CAPS AT SPRINKLER HEAD LOCATIONS FOR ANY WATER FLOW.
5. AT COMPLETION PHASE OF WORK THE CONTRACTOR WITH VA SUPERVISION WILL DRAIN THE FIRE PROTECTION SYSTEM.
6. ONCE THE FIRE PROTECTION SYSTEM IS DRAINED, CONTRACTOR SHALL FURNISH AND INSTALL FINAL BRANCH PIPING TO FIRE PROTECTION MAIN LINES. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY SMOKE DETECTORS AT ALL PROJECT ROOMS AND SPACES DURING CONSTRUCTION PHASE OF WORK, FURNISH AND INSTALL TEMPORARY CONDUITS, WIRING AND DEVICES AND CONNECT TO EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL CONSULT WITH VA FIRE ALARM CONTROL COMPANY AND PERFORM A CERTIFICATION TESTING THAT TEMPORARY DEVICES ARE IN OPERATION AND SUBMIT WRITTEN REPORT. AT PROJECT COMPLETION PHASE CONTRACTOR SHALL REMOVE TEMPORARY HEAT DETECTORS AND RESPECTIVE FIRE ALARM WIRING AND CONDUITS.
7. CONTRACTOR IS REQUIRED TO INSTALL UPRIGHT HEADS WHERE CEILING IS REMOVED OR PROVIDE HOURLY FIRE WATCH.
8. WHEN SPRINKLER SYSTEM IS DRAINED, PROVIDE FIRE WATCH OR TEMPORARY HEAT DETECTOR SYSTEM.

FIRE PROTECTION DELEGATED - DESIGN NOTE

THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING A COMPLETE, FUNCTIONAL, AND CODE COMPLIANT AUTOMATIC SPRINKLER SYSTEM. REFER TO GENERAL NOTES FOR ADDITIONAL DETAIL CONCERNING DESIGN, FLOW PRESSURE TEST, HYDRAULIC CALCULATIONS PER NFPA 13, 14, TO BE SUBMITTED, COORDINATION, AND SHOP DRAWINGS REQUIREMENTS.

FIRE PROTECTION SPRINKLER SCHEDULE

SP-1: QUICK RESPONSE SPRINKLER WITH SMALL THERMOSENSITIVE GLASS BULB, MIN. PRESSURE 7 PSI, UL LISTED, WHITE FINISH, K=5.6, 165°F, SEMI-RECESS, ADJUSTABLE ESCUTCHEON.

NOTES:
1. PROVIDE HIGH TEMPERATURE RATED SPRINKLERS IN VESTIBULES.
2. PROVIDED WITH LISTED SPRINKLER GUARD FOR INSTALLATION BELOW 7-FT AFF.

FIRE PROTECTION SPRINKLER SCHEDULE

SYMBOL	TYPE	RE.	K-F	FINISH	REMARKS
⊛	SEMI-RECESSED DRY PENDENT	QR	5.6		NOTE 1
●	SEMI-RECESSED PENDENT	QR	5.6	WHITE	NOTE 2
○	UPRIGHT	QR	5.6	BRASS	NOTE 2
▼	SIDEWALL	QR	5.6	WHITE	NOTE 2
▽	DRY SIDEWALL	QR	5.6	WHITE	NOTE 2

GENERAL NOTES:

1. SPRINKLER SHALL BE THE APPROPRIATE TEMPERATURE RATING FOR LOCATION AND OCCUPANCY IN ACCORDANCE WITH NFPA 13.
2. SPRINKLER SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, AND PROVIDE ADDITIONAL SPRINKLERS WHERE REQUIRED TO MAINTAIN THE CEILING LAYOUT OF ALL DISCIPLINES, FIXTURES, EQUIPMENT AND WORK.

NOTES:

1. PROVIDE HIGH TEMPERATURE RATED SPRINKLERS IN VESTIBULES.
2. PROVIDED WITH LISTED SPRINKLER GUARD FOR INSTALLATION BELOW 7-FT AFF.

FIRE PROTECTION DESIGN CRITERIA

HAZARD	AREA	DESIGN CRITERIA	HOSE (GPM)	MAX SPACING	DESIGN BASIS	REMARKS
LIGHT HAZARD GROUP 1	OFFICE AREAS / PUBLIC AREA / CORRIDORS / RESTROOMS / LOBBY / CONFERENCE ROOMS / BREAK ROOM	0.10/1500 SQFT	100	225 SQFT	NFPA 13 SECTIONS 4.3.2, 19.3.3.2 & TABLE 19.3.3.1.2	NOTES 1, 2, AND 3
ORDINARY HAZARD GROUP 1	ELECTRICAL / MECHANICAL / SERVER / IT SERVER	0.15/1500 SQFT	250	130 SQFT	NFPA 13 SECTIONS 4.3.3, 19.3.3.2 & TABLE 19.3.3.1.2	NOTES 1, 2, AND 3
ORDINARY HAZARD GROUP 2	COMMERCIAL KITCHENS / STORAGE	0.2/1500 SQFT	250	130 SQFT	NFPA 13 SECTIONS 4.3.4, 19.3.3.2 & TABLE 19.3.3.1.2	NOTES 1, 2, AND 3

NOTE:

1. HYDRAULIC AREA OF OPERATION SHALL BE INCREASED (CUMULATIVELY) WITHOUT REVISING THE DENSITY FOR THE FOLLOWING APPLICATIONS:
    A. INCREASED BY 30% FOR AREAS WITH SLOPED CEILINGS WITH A PITCH EXCEEDING 1 IN 6 (16.7%) SLOPE IN ACCORDANCE WITH NFPA 13 19.3.3.2.4.
    B. INCREASED TO 3,000 SQFT IF THE BUILDING HAS ADJACENT, NON-SPRINKLERED COMBUSTIBLE SPACES.
2. THE ABOVE CRITERIA NOTED DOES NOT PRECLUDE THE USE OF EXTENDED COVERAGE OR LISTED SPECIAL APPLICATION SPRINKLERS THAT ARE DESIGNED AND INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURER REQUIREMENTS.
3. THE HOSE STREAM ALLOWANCE SHALL BE PROVIDED AT THE BASE OF RISER.

FIRE PROTECTION ABBREVIATION LIST

SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
DP	DRY PENDENT
DN	DOWN
DS	DATA SHEET
EC	EXTENDED COVERAGE
EX	EXISTING
FHV	FIRE HOSE VALVE
FM	FACTORY MUTUAL
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GC	GENERAL CONTRACTOR
HT	HIGH TEMPERATURE
IN	INCH
K-F	SPRINKLER K-FACTOR
NIC	NOT IN CONTRACT
PC	PLUMBING CONTRACTOR
QR / QRS	QUICK RESPONSE
SPR	SPRINKLER RESPONSE
SR	STANDARD RESPONSE
SS	STANDPIPE SYSTEM
SSP	STANDARD PENDENT SPRINKLER
SSU	STANDARD UPRIGHT SPRINKLER
STND	STANDARD
THR	THREADED

HYDRANT FLOW PRESSURE TEST

HYDRANT NO.	LOCATION	DATE TESTED	STATIC PRESSURE	RESIDUAL PRESSURE	GPM
8	SW #5 BLDG 500	10 / 2017	50	24	750

BID DOCUMENTS SUBMITTAL	**11/24/2021**
100% CONSTRUCTION DOCUMENTS SUBMISSION	**07/23/2021**
95% CONSTRUCTION DOCUMENTS SUBMISSION	**02/12/2021**
60% DESIGN DEVELOPMENT SUBMISSION	**09/11/2020**
30% SCHEMATIC DESIGN SUBMISSION	**05/24/2020**
Revisions:	**Date:**

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS

700 Nicholas Blvd. Suite 300
Elk Grove Village, IL 60007
T:847.952.9362 F:847.952.9403
www.bancroft-ae.com

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

VA CONTRACT NO: 36C24519C0171

Drawing Title	FIRE PROTECTION - GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
Approved: Project Director	
Phase	BID DOCUMENTS SUBMITTAL
	FULLY SPRINKLERED
Project Title	RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN
Location	510 BUTLER AVENUE, MARTINSBURG, WV 25405
Issue Date	11/24/21
Checked	JPK
Drawn	TE
Project Number	613-19-103
Building Number	500
Drawing Number	FX001

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VA FORM 08-6231

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1 FIRE PROTECTION - OVERALL SPRINKLER PLAN, BASEMENT FLOOR

1/16" = 1'-0"

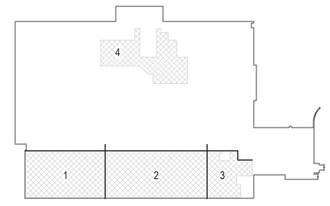
0 8' 16' 32'

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION
- LIGHT HAZARD
- ORDINARY HAZARD GROUP 1
- ORDINARY HAZARD GROUP 2
- KITCHEN EQUIPMENT (PROVIDED BY OTHERS)

GENERAL FIRE PROTECTION NOTES

A. THIS OVERALL PLAN IS INTENDED TO GIVE AN OVERVIEW OF THE WORK. REFER TO CORRESPONDING ENLARGED PLANS FOR DETAILED INFORMATION.



BASEMENT KEY PLAN

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
60% DESIGN DEVELOPMENT SUBMISSION	09/11/2020
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS

700 Nicholas Blvd. Suite 300
Elk Grove Village, IL 60007
T: 847.952.9362 F: 847.952.9403
www.bancroft-ae.com

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - OVERALL SPRINKLER PLAN, BASEMENT FLOOR

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Project Number: 613-19-103

Building Number: 500

Drawing Number: FX100

Issue Date: 11/24/21

Checked: JPK

Drawn: TE

VA FORM 08-6231

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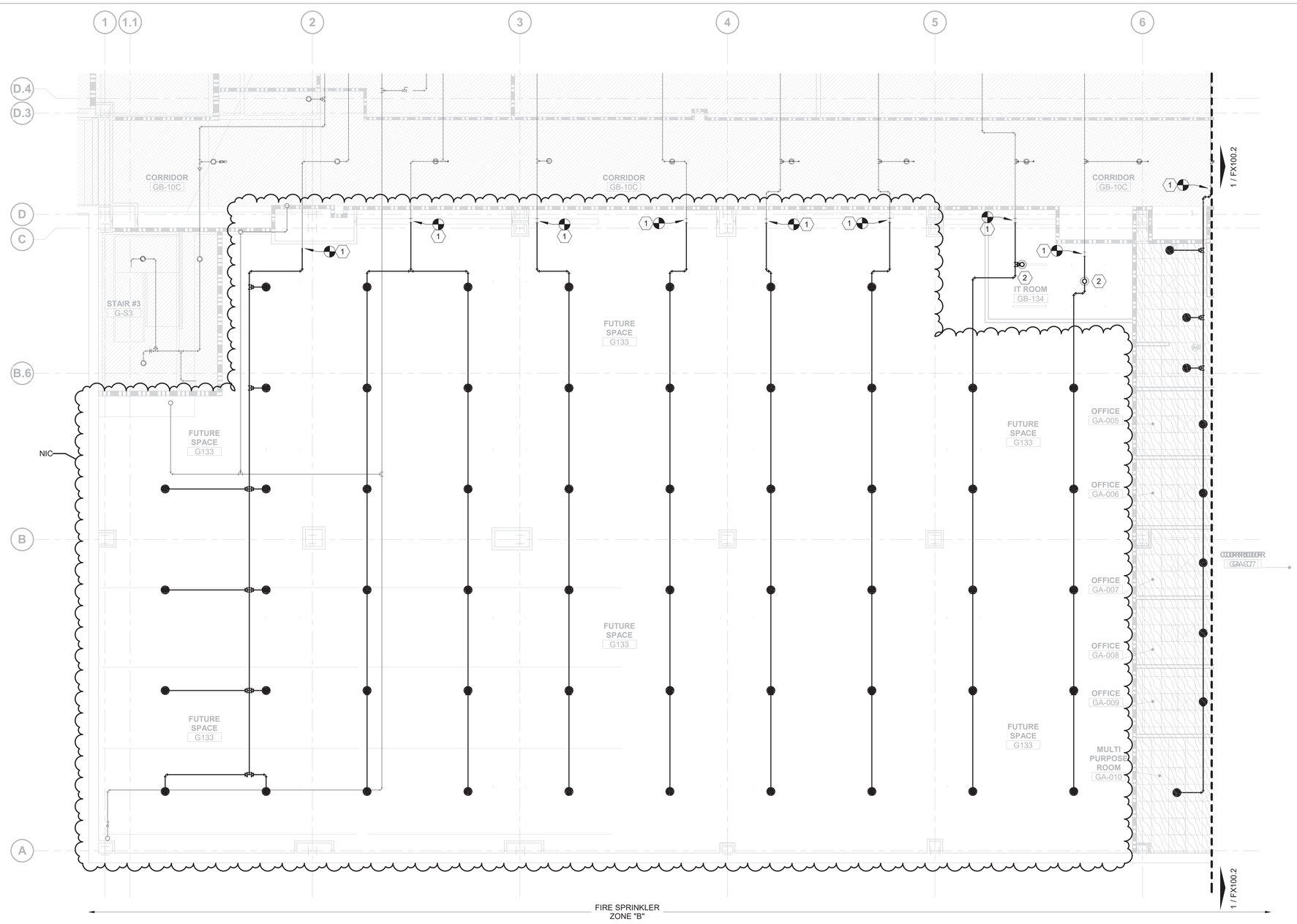

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1 FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 1

3/16" = 1'-0"

0 4' 8' 12'

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION
- LIGHT HAZARD
- ORDINARY HAZARD GROUP 1
- ORDINARY HAZARD GROUP 2
- KITCHEN EQUIPMENT (PROVIDED BY OTHERS)

FIRE PROTECTION GENERAL NOTES

A. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR, THIS INCLUDES THE RELOCATIONS OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.

B. DESIGN TO BE IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, DATED DECEMBER 2015.

C. CONTRACTOR TO COORDINATE WITH BEAMS, OBSTRUCTIONS AND OTHER DISCIPLINES.

D. CENTER ALL SPRINKLERS WITHIN CEILING TILE UNLESS OTHERWISE NOTED.

E. PAINT EXPOSED SPRINKLER PIPING "RED".

F. SEAL/FIRESTOP PENETRATIONS IN ALL SMOKE BARRIER AND FIRE RATED WALLS (EXTENDING TO BOTTOM OF STRUCTURE ABOVE) AND FLOORS, WHERE OPENINGS ARE ENCOUNTERED UP TO 4" DIAMETER.

G. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.

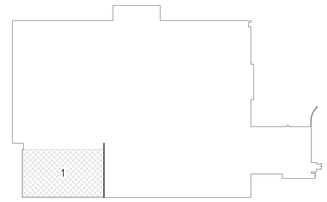
H. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

I. ALL SPRINKLER HEADS ARE TO BE NEW QUICK RESPONSE TYPE (QRS). FLEXIBLE SPRINKLERS ARE PERMITTED PER NOTE 41 ON FX001. BASIS OF DESIGN MANUFACTURER: GLOBE SERIES GL-QR OR VA APPROVED EQUAL. REFER TO VA SPECIFICATION 21 13 13.

J. AREAS SHOWN AS NOT IN CONTRACT (NIC) PERTAIN TO THE DISCIPLINES REPRESENTED BY THOSE DRAWINGS. REFER TO CORRESPONDING DRAWINGS IN OTHER DISCIPLINES FOR FULL EXTENT OF WORK. THE CONTRACTOR SHALL COORDINATE ACROSS ALL DRAWINGS AND ALL TRADES.

FIRE PROTECTION KEY NOTES

1. CONNECT NEW AUTOMATIC SPRINKLER PIPING TO EXISTING AUTOMATIC PIPING.
2. INSTALL UPRIGHT PENDANT IN IT ROOM.



BASEMENT KEY PLAN - AREA 1

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
60% DESIGN DEVELOPMENT SUBMISSION	09/11/2020
Revisions:	Date:

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T:847.952.9362 F:847.952.9403
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 1

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Project Number: 613-19-103

Building Number: 500

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Issue Date: 11/24/21

Checked: JPK

Drawn: TE

Drawing Number: FX100.1

VA FORM 08-6231

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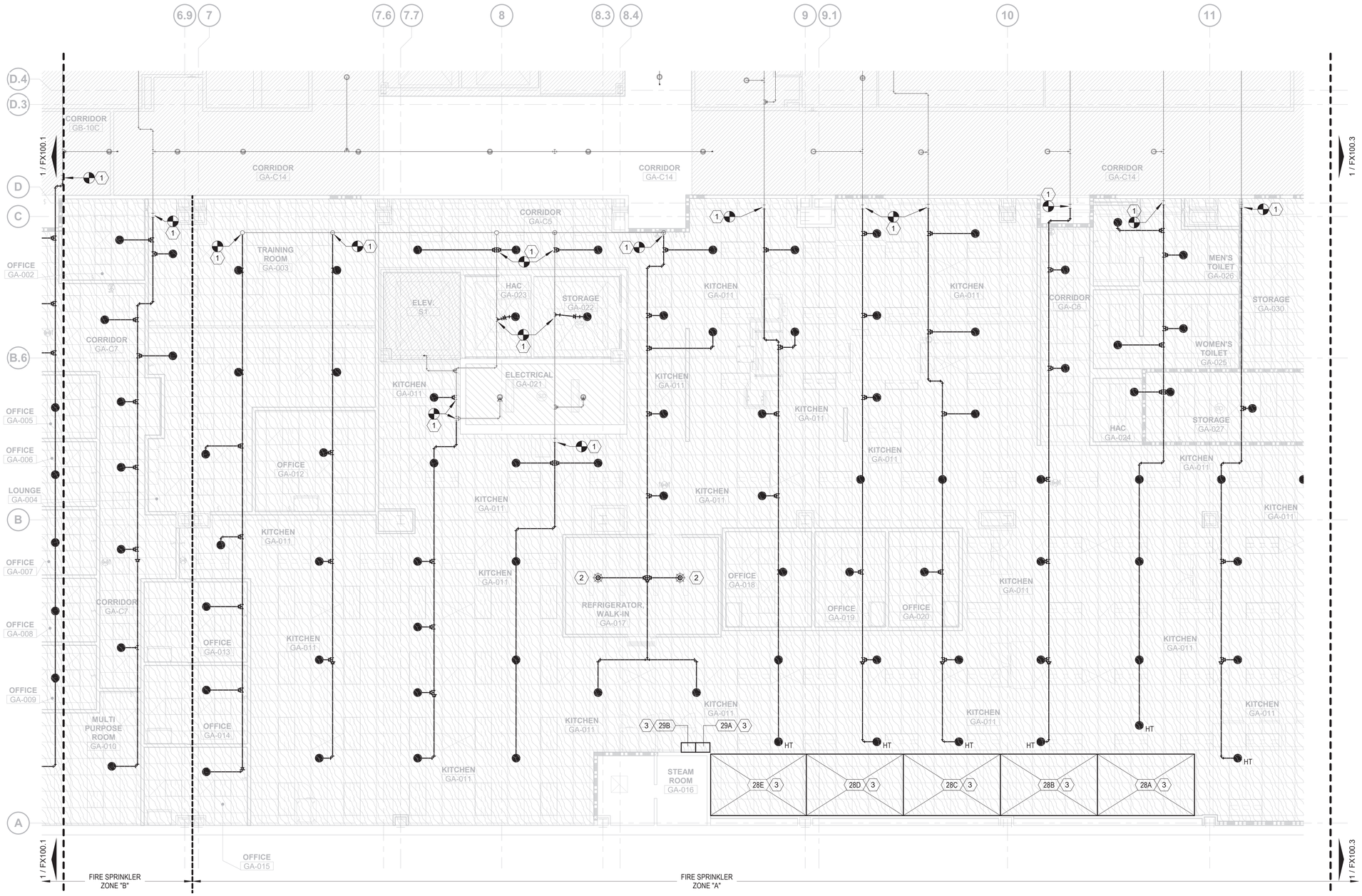

N

1 FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 2

3/16" = 1'-0"

0 4' 8' 12'

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION
- LIGHT HAZARD
- ORDINARY HAZARD GROUP 1
- ORDINARY HAZARD GROUP 2
- KITCHEN EQUIPMENT (PROVIDED BY OTHERS)

FIRE PROTECTION GENERAL NOTES

A. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR, THIS INCLUDES THE RELOCATIONS OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.

B. DESIGN TO BE IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, DATED DECEMBER 2015.

C. CONTRACTOR TO COORDINATE WITH BEAMS, OBSTRUCTIONS AND OTHER DISCIPLINES.

D. CENTER ALL SPRINKLERS WITHIN CEILING TILE UNLESS OTHERWISE NOTED.

E. PAINT EXPOSED SPRINKLER PIPING "RED".

F. SEAL/FIRESTOP PENETRATIONS IN ALL SMOKE BARRIER AND FIRE RATED WALLS (EXTENDING TO BOTTOM OF STRUCTURE ABOVE) AND FLOORS, WHERE OPENINGS ARE ENCOUNTERED UP TO 4" DIAMETER.

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H. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

I. ALL SPRINKLER HEADS ARE TO BE NEW QUICK RESPONSE TYPE (QRS). FLEXIBLE SPRINKLERS ARE PERMITTED PER NOTE 41 ON FX001. BASIS OF DESIGN MANUFACTURER: GLOBE SERIES GL-QR OR VA APPROVED EQUAL. REFER TO VA SPECIFICATION 21 13 13.

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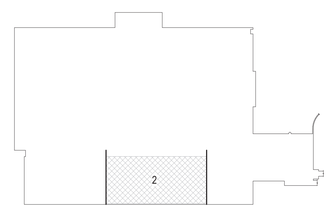
FIRE PROTECTION KEY NOTES

1. CONNECT NEW AUTOMATIC SPRINKLER PIPING TO EXISTING AUTOMATIC PIPING.
2. INSTALL DRY PENDANT FREEZER SPRINKLER IN WALK-IN REFRIGERATOR AND FREEZER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON SHEET FX501.
3. REFER TO FOOD SERVICES DRAWING(S) FOR INFORMATION ON KITCHEN WET CHEMICAL SUPPRESSION SYSTEM.



BASEMENT KEY PLAN - AREA 2

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
60% DESIGN DEVELOPMENT SUBMISSION	09/11/2020
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS
700 Nicholas Blvd. Suite 300
Elk Grove Village, IL 60007
T:847.952.9362 F:847.952.9403
www. bancroft-ae.com

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 2

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Project Number: 613-19-103

Building Number: 500

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Issue Date: 11/24/21

Checked: JPK

Drawn: TE

Drawing Number: FX100.2

VA FORM 08-6231

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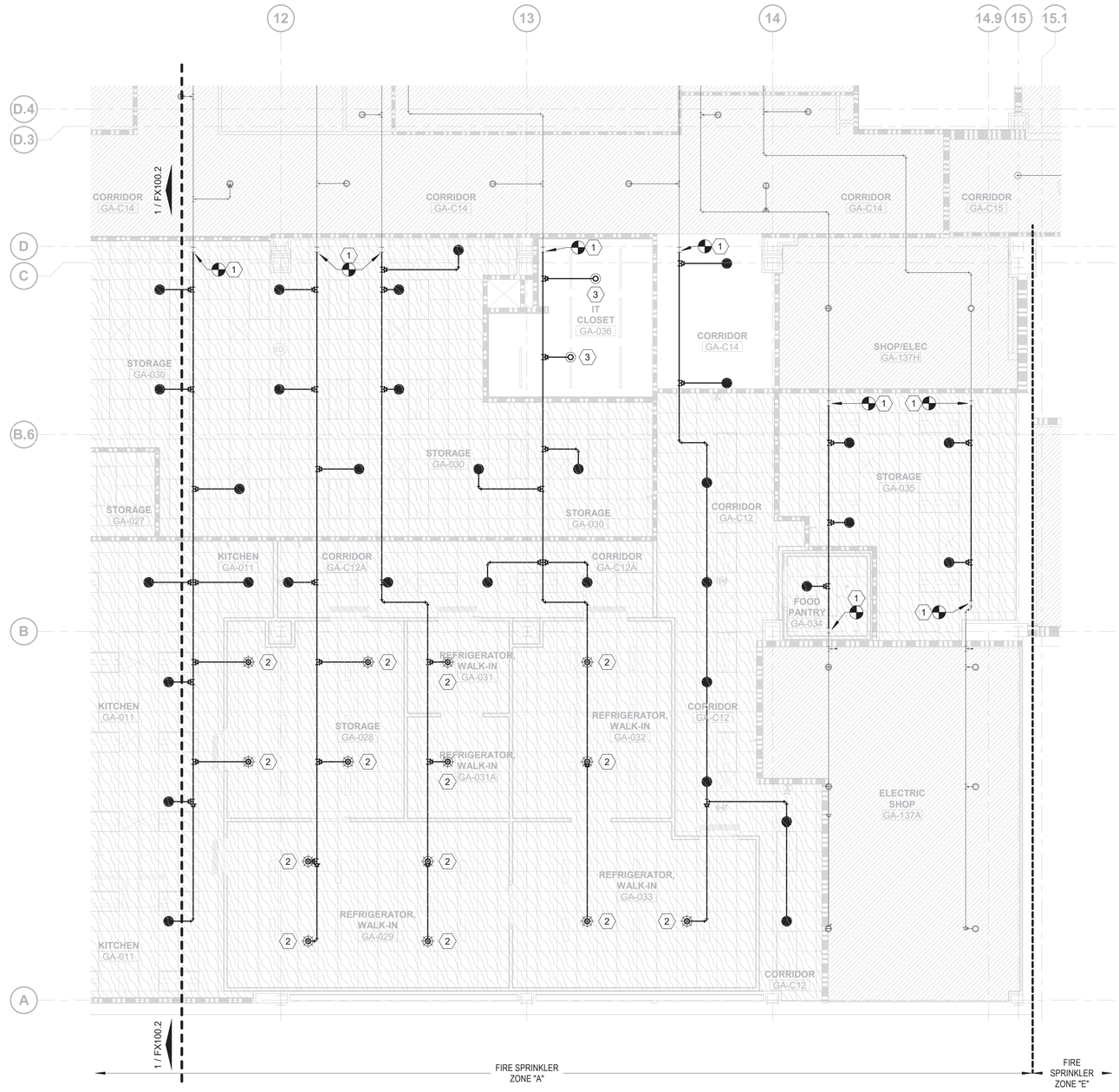


N

1 FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 3

3/16" = 1'-0"

0 4' 8' 12'

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION
- LIGHT HAZARD
- ORDINARY HAZARD GROUP 1
- ORDINARY HAZARD GROUP 2
- KITCHEN EQUIPMENT (PROVIDED BY OTHERS)

FIRE PROTECTION GENERAL NOTES

A. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR, THIS INCLUDES THE RELOCATIONS OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.

B. DESIGN TO BE IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, DATED DECEMBER 2015.

C. CONTRACTOR TO COORDINATE WITH BEAMS, OBSTRUCTIONS AND OTHER DISCIPLINES.

D. CENTER ALL SPRINKLERS WITHIN CEILING TILE UNLESS OTHERWISE NOTED.

E. PAINT EXPOSED SPRINKLER PIPING "RED".

F. SEAL/FIRESTOP PENETRATIONS IN ALL SMOKE BARRIER AND FIRE RATED WALLS (EXTENDING TO BOTTOM OF STRUCTURE ABOVE) AND FLOORS, WHERE OPENINGS ARE ENCOUNTERED UP TO 4" DIAMETER.

G. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.

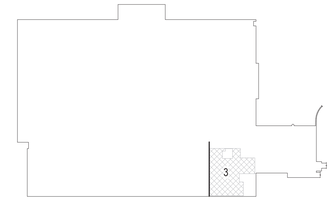
H. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

I. ALL SPRINKLER HEADS ARE TO BE NEW QUICK RESPONSE TYPE (QRS). FLEXIBLE SPRINKLERS ARE PERMITTED PER NOTE 41 ON FX001. BASIS OF DESIGN MANUFACTURER: GLOBE SERIES GL-QR OR VA APPROVED EQUAL. REFER TO VA SPECIFICATION 21 13 13.

J. AREAS SHOWN AS NOT IN CONTRACT (NIC) PERTAIN TO THE DISCIPLINES REPRESENTED BY THOSE DRAWINGS. REFER TO CORRESPONDING DRAWINGS IN OTHER DISCIPLINES FOR FULL EXTENT OF WORK. THE CONTRACTOR SHALL COORDINATE ACROSS ALL DRAWINGS AND ALL TRADES.

FIRE PROTECTION KEY NOTES

1. CONNECT NEW AUTOMATIC SPRINKLER PIPING TO EXISTING AUTOMATIC PIPING.
2. INSTALL DRY PENDANT FREEZER SPRINKLER IN WALK-IN REFRIGERATOR AND FREEZER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON SHEET FX501.
3. INSTALL UPRIGHT PENDANT IN IT ROOM.



BASEMENT KEY PLAN - AREA 3

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 3

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Project Number: 613-19-103

Building Number: 500

Drawing Number: FX100.3

Issue Date: 11/24/21 | Checked: JPK | Drawn: TE

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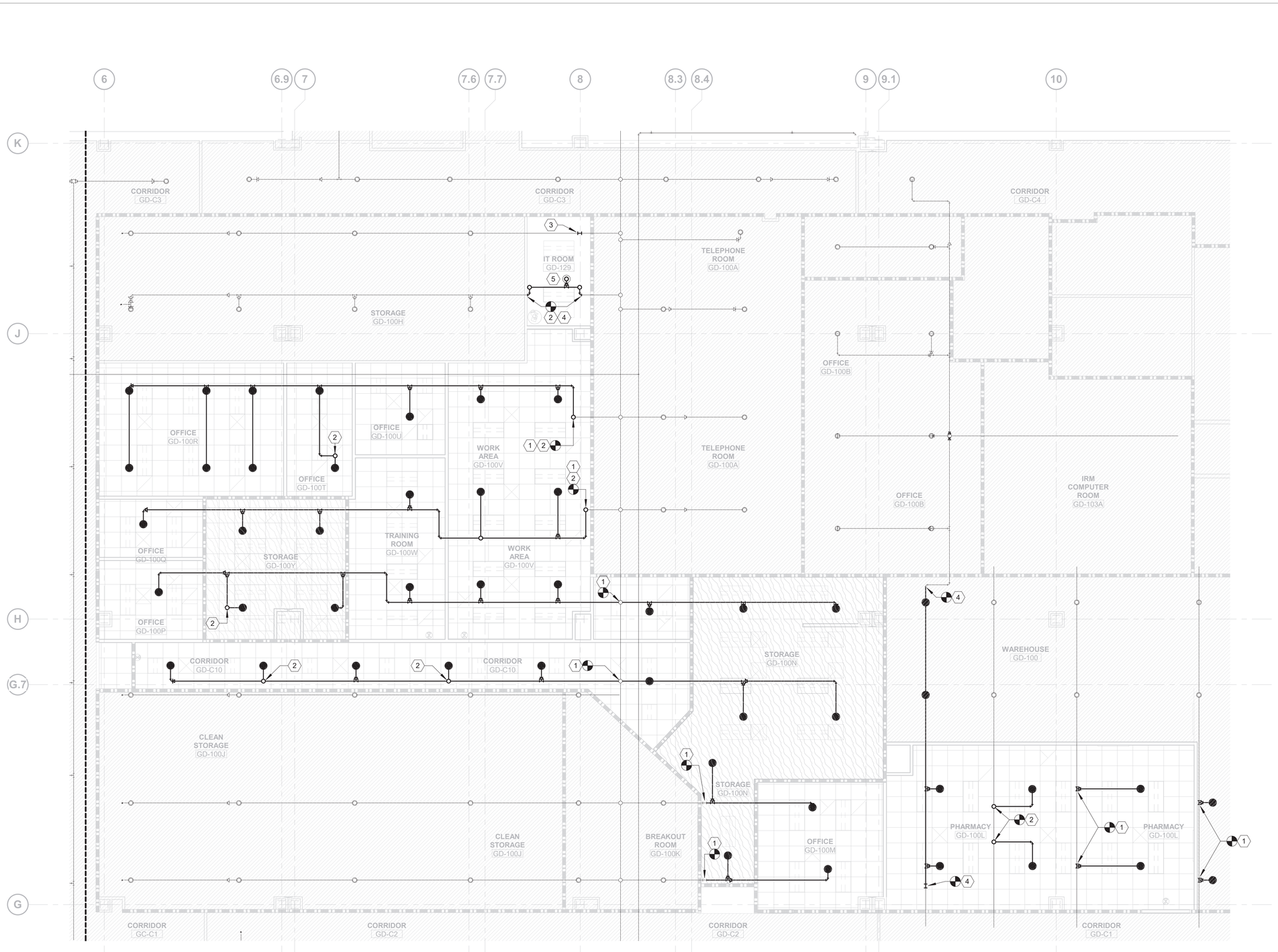

N

1 FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 4

3/16" = 1'-0"

0 4' 8' 12'

PLAN LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE & SMOKE SEPARATION
- 1 HOUR FIRE & SMOKE SEPARATION
- LIGHT HAZARD
- ORDINARY HAZARD GROUP 1
- ORDINARY HAZARD GROUP 2
- KITCHEN EQUIPMENT (PROVIDED BY OTHERS)

FIRE PROTECTION GENERAL NOTES

A. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR, THIS INCLUDES THE RELOCATIONS OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.

B. DESIGN TO BE IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, DATED DECEMBER 2015.

C. CONTRACTOR TO COORDINATE WITH BEAMS, OBSTRUCTIONS AND OTHER DISCIPLINES.

D. CENTER ALL SPRINKLERS WITHIN CEILING TILE UNLESS OTHERWISE NOTED.

E. PAINT EXPOSED SPRINKLER PIPING "RED".

F. SEAL/FIRESTOP PENETRATIONS IN ALL SMOKE BARRIER AND FIRE RATED WALLS (EXTENDING TO BOTTOM OF STRUCTURE ABOVE) AND FLOORS, WHERE OPENINGS ARE ENCOUNTERED UP TO 4" DIAMETER.

G. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.

H. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

I. ALL SPRINKLER HEADS ARE TO BE NEW QUICK RESPONSE TYPE (QRS). FLEXIBLE SPRINKLERS ARE PERMITTED PER NOTE 41 ON FX001. BASIS OF DESIGN MANUFACTURER: GLOBE SERIES GL-QR OR VA APPROVED EQUAL. REFER TO VA SPECIFICATION 21 13 13.

J. AREAS SHOWN AS NOT IN CONTRACT (NIC) PERTAIN TO THE DISCIPLINES REPRESENTED BY THOSE DRAWINGS. REFER TO CORRESPONDING DRAWINGS IN OTHER DISCIPLINES FOR FULL EXTENT OF WORK. THE CONTRACTOR SHALL COORDINATE ACROSS ALL DRAWINGS AND ALL TRADES.

FIRE PROTECTION KEY NOTES

1. CONNECT NEW AUTOMATIC SPRINKLER PIPING TO EXISTING AUTOMATIC PIPING.
2. ROUTE SPRINKLER PIPING TO AVOID MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE WITH OTHER DISCIPLINES.
3. RECONNECT TO EXISTING SPRINKLER PIPING.
4. COORDINATE CONNECTION OF AUTOMATIC SPRINKLER HEADS AND SPRINKLER PIPING WITH DEMOLITION WORK ON FD100.4. PHASING OF WORK SHALL ASSURE ADEQUATE FIRE PROTECTION FOR ASSOCIATED AREAS DOWNSTREAM DURING CONSTRUCTION.
5. INSTALL UPRIGHT PENDANT IN IT ROOM.

BASEMENT KEY PLAN - AREA 4

NOT TO SCALE

VA CONTRACT NO: 36C24519C0171

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
60% DESIGN DEVELOPMENT SUBMISSION	09/11/2020
Revisions:	Date:

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700 Nicholas Blvd. Suite 300
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T:847.952.9362 F:847.952.9403
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - ENLARGED SPRINKLER PLAN, BASEMENT FLOOR - AREA 4

Approved: Project Director

Phase: BID DOCUMENTS SUBMITTAL

FULLY SPRINKLERED

Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN

Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405

Issue Date: 11/24/21 | Checked: JPK | Drawn: TE

Project Number: 613-19-103

Building Number: 500

Drawing Number: FX100.4

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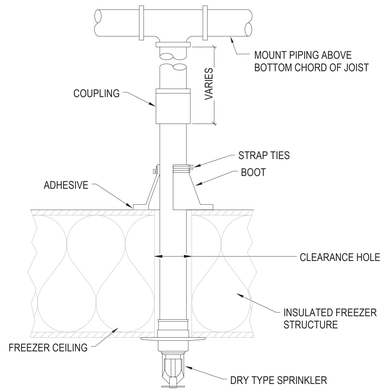
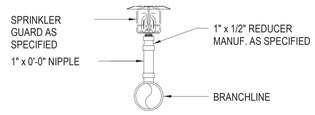


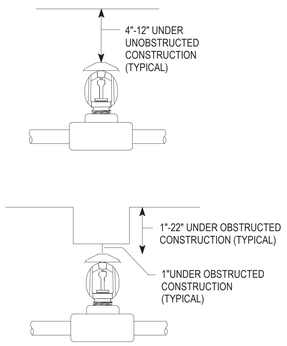
7 DRY FREEZER SPRINKLER HEAD WITH BOOT

NOT TO SCALE



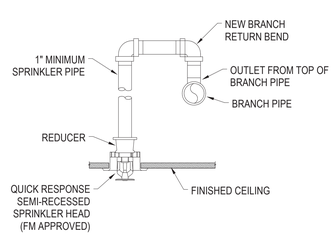
3 TYPICAL SPRINKLER WITH WIRE GUARD DETAIL

NOT TO SCALE



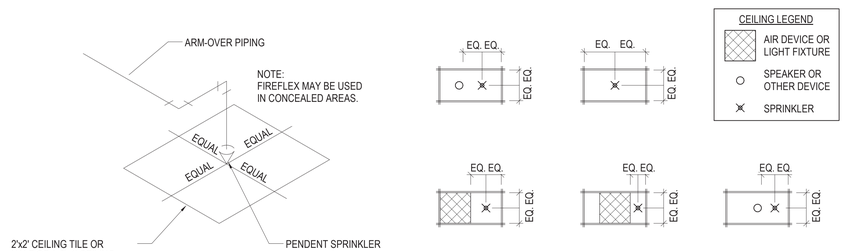
4 TYPICAL SPRINKLER FROM DECK OR OBSTRUCTION

NOT TO SCALE



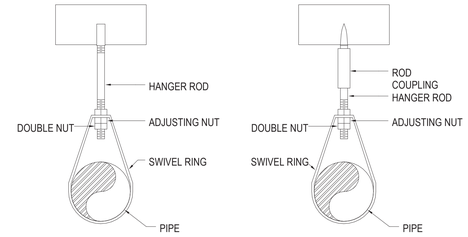
5 RETURN BEND DETAIL

NOT TO SCALE



6 TYPICAL CEILING SPRINKLER ARM DETAIL

NOT TO SCALE



HANGER INSTALLATION REQUIREMENTS								
MAXIMUM DISTANCE BETWEEN HANGERS								
NOMINAL PIPE SIZE	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
STEEL PIPE (EXCEPT TREADED LIGHT WALL)	12' 0"	12' 0"	15' 0"	15' 0"	15' 0"	15' 0"	14' 0"	15' 0"
STEEL PIPE TREADED LIGHT WALL	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	-	-

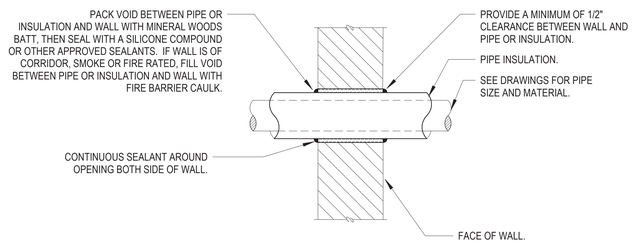
NOTES:

1. 100 PSI STATIC PRESSURE ON SYSTEM REQUIRES UP-LIFT RESTRAINT WITHIN 12 INCHES HORIZONTALLY OF HEAD FOR ARM-OVERS AND END OF BRANCH LINE
2. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER
3. THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"

*MANY CODES AND SPECIFICATIONS REQUIRE PIPE HANGERS TO BE SPACED EVERY 10 FT (3.05M) REGARDLESS OF SIZE. CHECK LOCAL CODES.

1 TYPICAL PIPE HANGER DETAILS

NOT TO SCALE



NOTES:

1. I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR CONTRACTORS.
3. PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.

2 PIPE PENETRATION OF INTERIOR WALL DETAIL OR FLOOR DETAIL

NOT TO SCALE

BID DOCUMENTS SUBMITTAL	11/24/2021
100% CONSTRUCTION DOCUMENTS SUBMISSION	07/23/2021
95% CONSTRUCTION DOCUMENTS SUBMISSION	02/12/2021
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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

VA CONTRACT NO: 36C24519C0171

Drawing Title: FIRE PROTECTION - DETAILS	Phase: BID DOCUMENTS SUBMITTAL	Project Title: RENOVATE/UPGRADE NUTRITION & FOOD SERVICE KITCHEN	Project Number: 613-19-103
Approved: Project Director	FULLY SPRINKLERED	Location: 510 BUTLER AVENUE, MARTINSBURG, WV 25405	Building Number: 500
		Issue Date: 11/24/21 / Checked: JPK / Drawn: TE	Drawing Number: FX500

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