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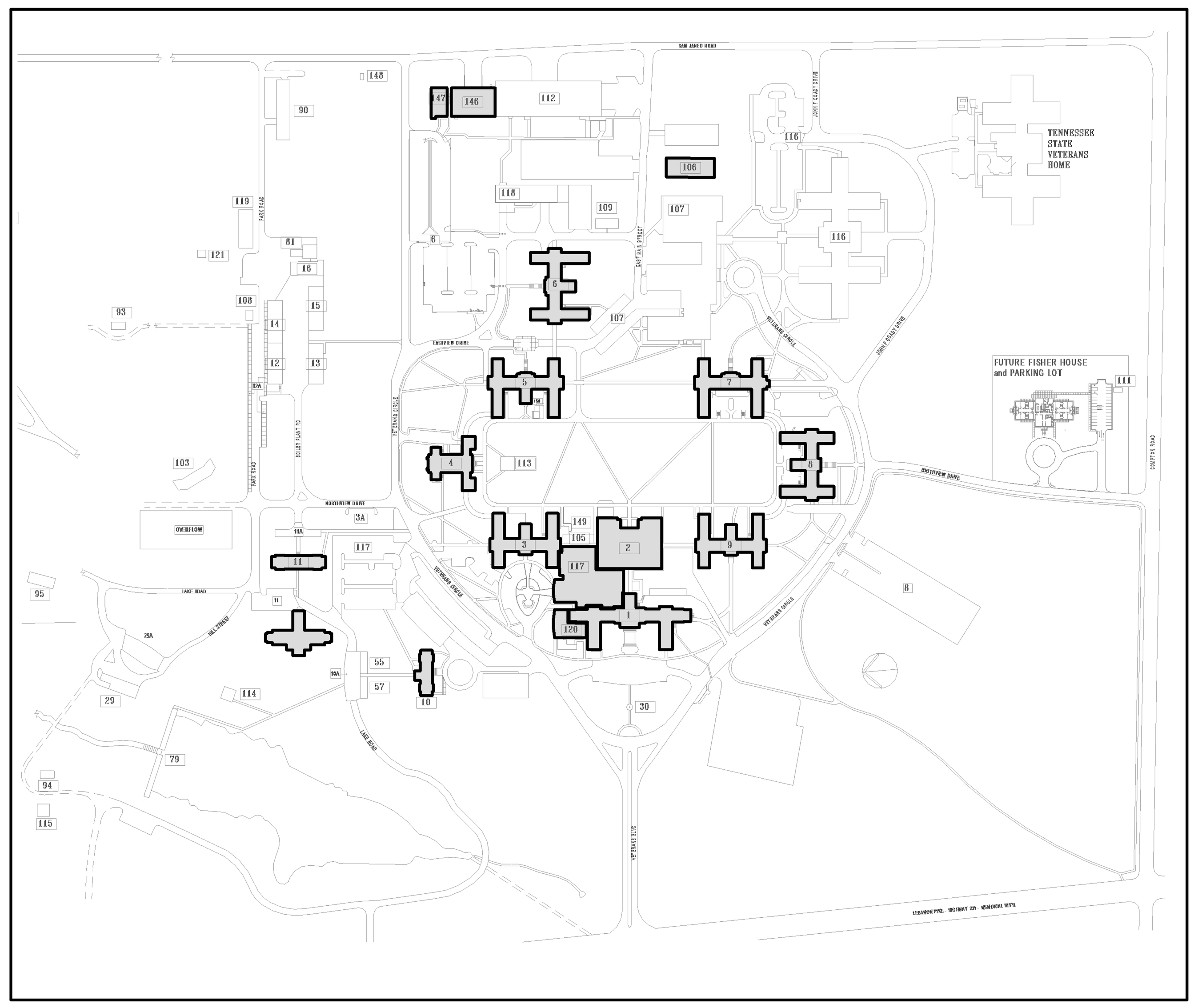
VIDEO SURVEILLANCE SECURITY YORK

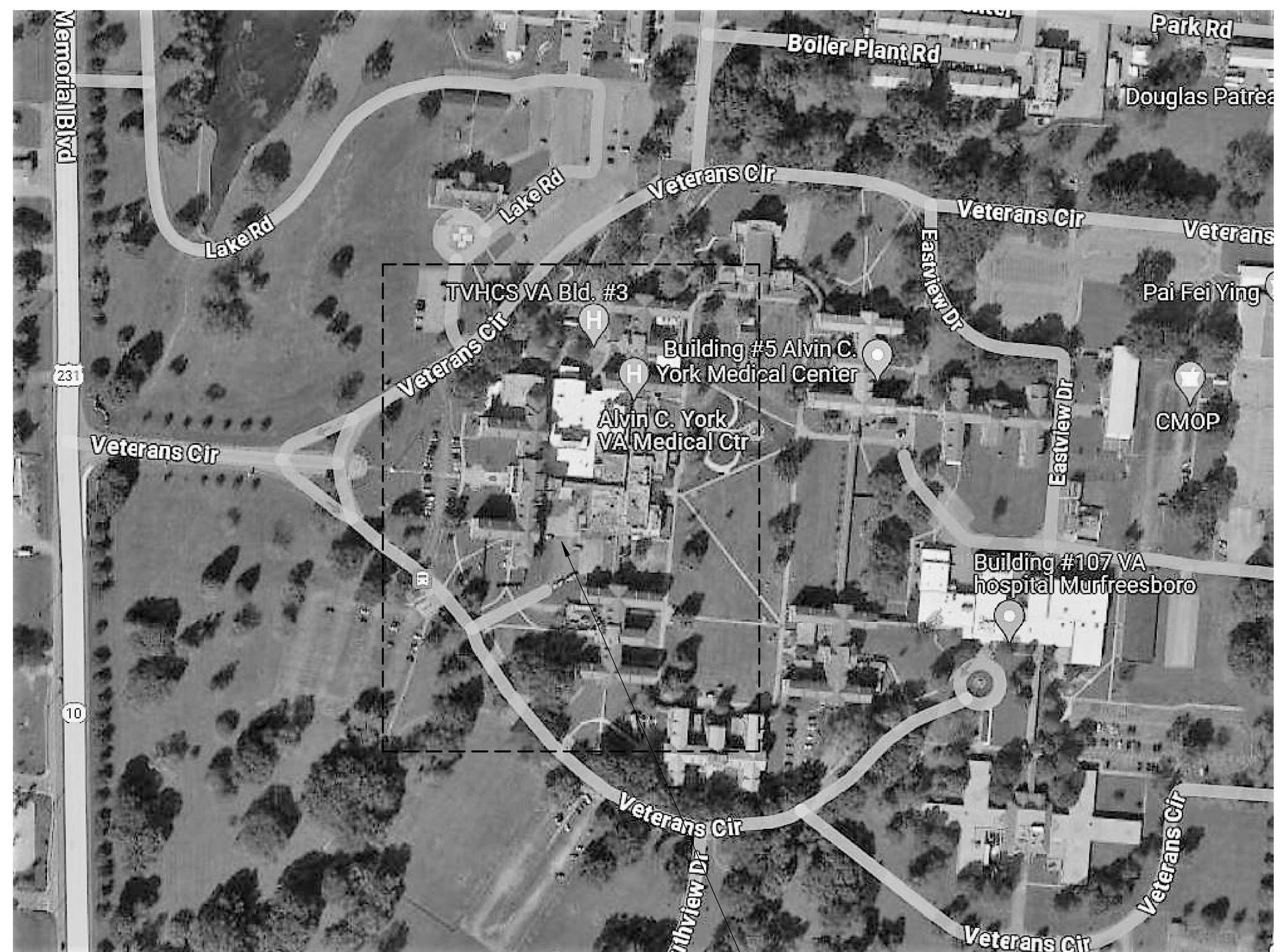
ALVIN C. YORK CAMPUS
3400 LEBANON ROAD
MURFREESBORO, TN 37129

VA PROJECT #: 626A4-22-104

PROJECT SITE MAP



PROJECT LOCATION MAP



PROJECT LOCATION

DRAWING LIST

GENERAL

G-001	ENG. PROJECT COVER	1	3
G-002	SITE PLAN - MURFREESBORO VAMC	2	3
G-100	ICRA INFORMATION AND DETAILS	3	3

TECHNOLOGY

T-001	TECHNOLOGY GENERAL NOTES, SYMBOL LEGEND, AND ABBREVIATIONS	1	26
TS101	TECHNOLOGY SITE PLAN	2	26
TS102	TECHNOLOGY SITE PLAN	3	26
1.T-101	BUILDING 1 GROUND FLOOR SECURITY PLAN	4	26
1.T-102	BULIDING 1 FIRST FLOOR SECURITY PLAN	5	26
2.T-101	BULDING 2 GROUND FLOOR SECURITY PLAN	6	26
3.T-101	BUILDING 3 GROUND FLOOR SECURITY PLAN	7	26
3.T-102	BUILDING 3 FIRST FLOOR SECURITY PLAN	8	26
4.T-101	BULIDING 4 GROUND FLOOR SECURITY PLAN	9	26
5.T-101	BUILDING 5 FIRST FLOOR SECURITY PLAN	10	26
6.T-101	BULDING 6 GROUND FLOOR SECURITY PLAN	11	26
7.T-101	BULDING 7 GROUND FLOOR SECURITY PLAN	12	26
7.T-102	BULDING 7 FIRST FLOOR SECURITY PLAN	13	26
8.T-101	BUILDING 8 GROUND FLOOR SECURITY PLAN	14	26
8.T-102	BUILDING 8 FIRST FLOOR SECURITY PLAN	15	26
8.T-103	BUILDING 8 SECOND FLOOR SECURITY PLAN	16	26
9.T-101	BUILDING 9 GROUND FLOOR SECURITY PLAN	17	26
9.T-102	BUILDING 9 FIRST FLOOR SECURITY PLAN	18	26
9.T-103	BUILDING 9 SECOND FLOOR SECURITY PLAN	19	26
112.T-101	BUILDING 112 GROUND FLOOR SECURITY PLAN	20	26
117.T-101	BUILDING 117 GROUND FLOOR SECURITY PLAN	21	26
117.T-102	BUILDING 117 FIRST FLOOR SECURITY PLAN	22	26
120.T-101	BUILDING 120 SECURITY PLANS	23	26
T-501	TECHNOLOGY DETAILS	24	26
T-502	TECHNOLOGY DETAILS	25	26
T-601	TECHNOLOGY RISERS	26	26

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BID DOCUMENTS

#	Revisions:	Date

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EXPIRES 12-31-24
RCDD

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 36876
GARRETT R. GOSSETT
6/12/2024

PROJECT MANAGER

ACG Project Number 22-215

APOGEE Engineers | Architects

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENG. PROJECT COVER

Location: ALVIN C. YORK CAMPUS, 3400 LEBANON ROAD, MURFREESBORO, TN 37129

Project Title: VIDEO SURVEILLANCE SECURITY YORK

Approved:

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LS

VA PROJECT NUMBER: 626A4-22-104

Building Number: # 1

Drawing Number: G-001

Dwg 1 of 3

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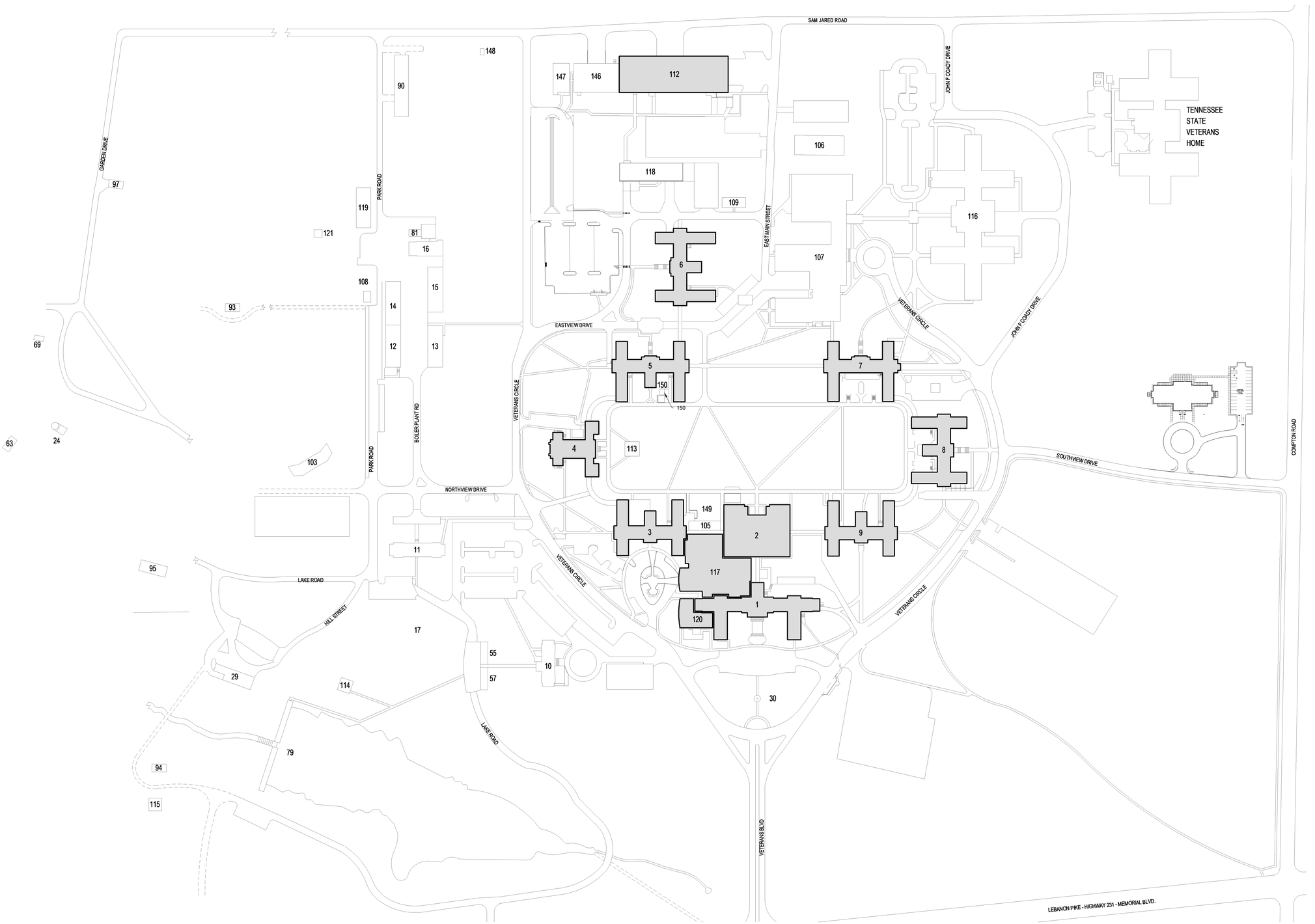

1 **SITE PLAN - MURFREESBORO VAMC**
Scale: 1" = 110'-0"

0 55 110 220 NORTH

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

B. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

C. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

D. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

E. WERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

F. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

LEGEND

AREA OF WORK

FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

BICSI JAMES V EZEKIEL BICSI ID# 290762 EXPIRES 12-31-24 RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT 6/12/2024

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE PLAN - MURFREESBORO VAMC

Location: ALVIN C. YORK CAMPUS
3400 LEBANON ROAD
MURFREESBORO, TN 37129

Project Title: VIDEO SURVEILLANCE SECURITY YORK

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LS

VA PROJECT NUMBER: 626A4-22-104

Building Number: # 1,2,3,4,5,6,7,8,9,10,11, 17,106,117,120,146,147

Drawing Number: G-002

Dwg 2 of 3

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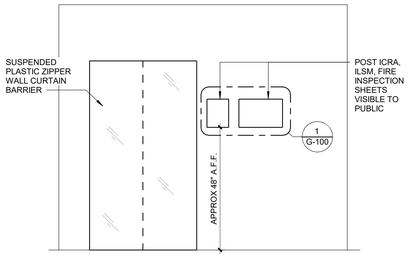
ILSM TEMPORARY BARRIER TAG	
PROJECT:	
PRIME CONTRACTOR:	
SUB CONTRACTOR:	
EMERGENCY CONTACT NO.:	
BARRIER INSTALLATION DATE:	
BARRIER EXPIRATION DATE:	

3 ILSM BARRIER TAG

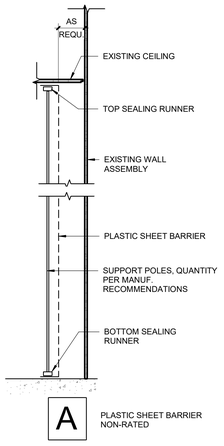
Scale: 12" = 1'-0"

NOTE:
TAG SHALL BE PLACED ON ALL ILSM
TEMPORARY BARRIERS, FINAL LOCATION BY G.C.



4 ICRA ROOM ELEVATION

Scale: 1/2" = 1'-0"

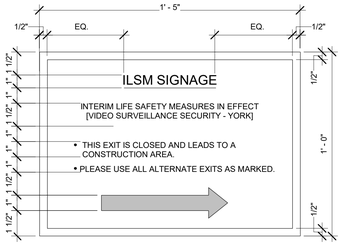


5 ICRA BARRIER WALL TYPE

Scale: 3/4" = 1'-0"

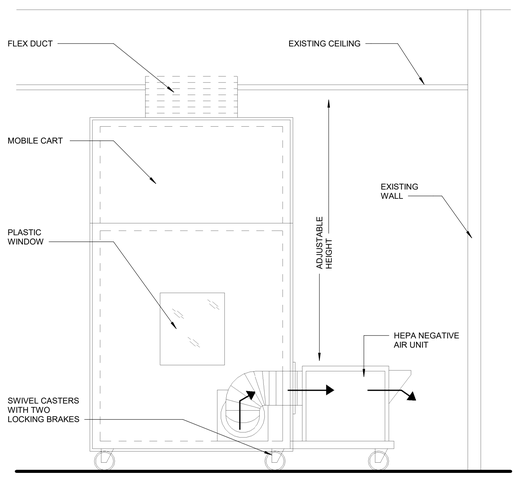
INFECTION CONTROL RISK ASSESSMENT, INTERIM LIFE SAFETY MEASURES, FIRE WATCH AND MISCELLANEOUS FORMS

PAPER CADDY



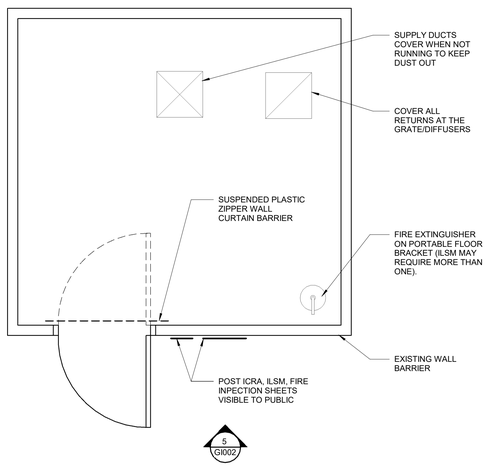
1 ILSM CONSTRUCTION EGRESS SIGNAGE

Scale: 3" = 1'-0"



6 ICRA MOBILE CONTAINMENT CART

Scale: 1/2" = 1'-0"



2 TYPICAL CONSTRUCTION PLAN LAYOUT

Scale: 1/2" = 1'-0"

INFECTION CONTROL RISK MITIGATION RECOMMENDATIONS MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION

Type of Construction / Project Activity Table

TYPE A	**Inspection and Non-Invasive Activities** Includes, but is not limited to: • Removal of ceiling tile for visual inspection-limited to 1 tile per 50 square feet with limited exposure time. • Limited building system maintenance (e.g., pneumatic tube station, HVAC system, fire suppression system, electrical and carpentry work to include painting without sanding) that does not create dust or debris. • Clean plumbing activity limited in nature.
TYPE B	**Small scale, short duration activities which create minimal dust** Includes, but is not limited to: • Work conducted above the ceiling (e.g., prolonged inspection or repair of firewalls and barriers, installation of conduit and/or cabling, and access to mechanical and/or electrical chase spaces). • Fan shutdown/startup. • Installation of electrical devices or new flooring that produces minimal dust and debris. • The removal of drywall where minimal dust and debris is created. • Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris.
TYPE C	**Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies** Includes, but is not limited to: • Removal of preexisting floor covering, walls, casework or other building components. • New drywall placement. • Renovation work in a single room. • Nonexisting cable pathway or invasive electrical work above ceilings. • The removal of drywall where a moderate amount of dust and debris is created. • Dry sanding where a moderate amount of dust and debris is created. • Work creating significant vibration and/or noise. • Any activity that cannot be completed in a single work shift.
TYPE D	**Major demolition and construction projects** Includes, but is not limited to: • Removal or replacement of building system component(s). • Removal/installation of drywall partitions. • Invasive large-scale new building construction. • Renovation work in two or more rooms.

Patient Risk Group Table

Group 1 Low Risk	Group 2 Medium Risk	Group 3 High Risk	Group 4 Highest Risk
• Office areas (non-clinical) • FES/EMS areas	• Physical Therapy • Radiology departments • All patient waiting rooms • All outpatient clinics • Research Areas • Respiratory Therapy	• Emergency Room • Clinical Laboratories (specimen) • Same Day Surgery • Pharmacy • Nutrition and Food Service/Canteen • Procedural Areas (GI) • Inpatient Mental Health	• Any area caring for immunocompromised patients • Cardiac Cath Lab/IR • Central Sterile Supply • Sterile Processing Service • Intensive Care Units • Medical/Surgical Units • Negative pressure isolation rooms • Outpatient Chemotherapy Areas • Operating rooms • Post Anesthesia Care Unit • Dialysis • Dental

Infection Control Matrix - Class of Precautions: Construction Project by Patient Risk

Patient Risk Group	Construction Project Type TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group 1	I	II	II	III
MEDIUM Risk Group 2	I	II	III	IV
HIGH Risk Group 3	I	III	IV	V
HIGHEST Risk Group 4	III	IV	V	V

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

CONSTRUCTION ACTIVITIES SHALL BE CLASSIFIED AS FOLLOWS UNLESS NOTED OTHERWISE:
1. INSTALLATION OF CABLE TRAY IN CORRIDOR CEILINGS SHALL BE CONSIDERED CONSTRUCITON ACTIVITY TYPE B.
2. ALL CONDUIT SPECIFIED TO BE INSTALLED IN WALL SHALL BE CONSIDERED CONSTRUCTION ACTIVITY TYPE C.
3. CONSTRUCTION OF NEW ROOMS SHALL BE CONSIDERED CONSTRUCTION ACTIVITY TYPE D.
4. INSTALLATION OF NEW DOORS TO OR FROM EXISTING SPACES SHALL BE CONSIDERED CONSTRUCTION ACTIVITY TYPE C.

It is the Contractor's Responsibility to provide the following Infection Control Precautions depending upon the Area Class Designation

	During Construction Project	Upon Completion of Project
CLASS I	1. Execute work by methods to minimize raising dust from construction operations. 2. Perform noninvasive work activity as to not block or interrupt patient care. 3. Perform noninvasive work activities in areas that are not directly occupied with patients. 4. Perform noninvasive work activity in a manner that does not create dust. 5. Immediately replace any displaced ceiling tile before leaving the area and/or at end of noninvasive work activity.	Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. HVAC Systems: 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications.
CLASS II	1. Includes all activities required by Class I 2. Perform only limited dust work and/or activities designed for basic facilities and engineering work. 3. Perform limited dust and invasive work following standing precautions procedures approved by the organization. 4. This Class of Precautions must never be used for construction or renovation activities. 5. Provide active means to prevent airborne dust from dispersing into atmosphere. 6. Water mist work surfaces to control dust while cutting. 7. Seal unused doors with duct tape. 8. Block off and seal air vents. 9. Replace adhesive walk-off mats at entrance and exit of work area. Replace used mats in accordance with manufacturer's recommendations. 10. Remove or isolate HVAC system in area where work is being done to prevent contamination of duct system.	Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. HVAC Systems: 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications.

INFECTION CONTROL RISK MITIGATION RECOMMENDATIONS MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION

It is the Contractor's Responsibility to provide the following Infection Control Precautions depending upon the Area Class Designation

	During Construction Project	Upon Completion of Project
CLASS III	1. Includes all activities required by Class II 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Provide active means to prevent airborne dust dispersion into the occupied areas. 4. Means for controlling minimal dust dispersion may include hand-held HEPA vacuum devices, polyethylene plastic containment, or isolation of work area by closing room door. 5. Remove or isolate return air diffusers to avoid dust from entering the HVAC system. 6. Remove or isolate the supply air diffusers to avoid positive pressurization of the space, 7. If work area is contained, then it must be neutrally to negatively pressurized at all times. 8. Seal all doors with tape that will not leave residue. 9. Contain all trash and debris in the work area. 10. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 11. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 12. Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces. 13. Clean construction area at the end of each shift by damp mopping or HEPA Vacuum.	For Type C activities, follow procedures for Class IV. Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. HVAC Systems: 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications.
CLASS IV	1. Includes all activities required by Class III 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Construct and complete critical barriers meeting NFPA 241 requirements. Barriers must extend to the ceiling or if ceiling tile is removed, to the deck above. 4. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to ground and ceiling and secure from movement or damage. Apply tape that will not leave a residue to seal gaps between barriers, ceiling or floor. 5. Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type). 6. Containment units or environmental containment units (ECUs) approved for Class IV precautions in small areas totally contained by the unit and that has HEPA-filtered exhaust air. 7. Remove or isolate return air diffusers to avoid dust entering the HVAC system. 8. Remove or isolate the supply air diffusers to avoid positive pressurization of the space. 9. Negative airflow pattern must be maintained from the entry point to the anteroom and into the construction area. The airflow must cascade from outside to inside the construction area. The entire construction area must remain negatively pressurized. 10. Maintain negative pressurization of the entire workspace by use of HEPA exhaust air systems directed outdoors. Exhaust discharged directly to the outdoors that is 25 feet or greater from entrances, air intakes and windows does not require HEPA-filtered air. 11. If exhaust is directed indoors, then the system must be HEPA filtered. Prior to start of work, HEPA filtration must be verified by particulate measurement as no less than 99.97% efficiency and must not alter or change airflow/pressure relationships in other areas. 12. Exhaust into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is not acceptable. 13. Install device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor negative pressurization. The "ball in the wall" or similar apparatus are not acceptable. 14. Contain all trash and debris in the work area. 15. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 16. Worker clothing must be clean and free of visible dust before leaving the work area. HEPA vacuuming of clothing or use of cover suites is acceptable. 17. Workers must wear shoe covers prior to entry into the work area. Shoe covers must be changed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be immediately changed. 18. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 19. Consider collection of particulate data during work to monitor and ensure that contaminates do not enter the occupied spaces. Routine collection of particulate samples may be used to verify HEPA filtration efficiencies.	Construction areas must be inspected by an infection preventionist or designee and engineering representative for discontinuation or downgrading of ICRA precautions. Work Area Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. Removal of Critical Barriers: 1. Critical barriers must remain in place during all work involving drywall removal, creation of dust and activities beyond simple touch-up work. The barrier may NOT be removed until a work area cleaning has been performed. 2. All (plastic or hard) barrier removal activities must be completed in a manner that prevents dust release. Use the following precautions when removing hard barriers: 1. Carefully remove screws and painter tape. 2. If dust will be generated during screw removal, use hand-held HEPA vacuum. 3. Drywall cutting is prohibited during removal process. 4. Clean all stud tracks with HEPA vacuum before removing outer hard barrier. 5. Use a plastic barrier to enclose area if dust could be generated. Negative Air Requirements: 1. The use of negative air must be designed to remove contaminates from the work area. 2. Negative air devices must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers. HVAC systems: 1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed. 2. Verify that HVAC systems are clean and operational. 3. Verify the HVAC systems meets original airflow and air exchange design specifications.
CLASS V	1. Includes all activities required by Class IV 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Construct and complete critical barriers meeting NFPA 241 requirements. Barriers must extend to the ceiling or if ceiling tile is removed, to the deck above. 4. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to ground and ceiling and secure from movement or damage. Apply tape that will not leave a residue to seal gaps between barriers, ceiling or floor. 5. Seal all penetrations in containment barriers, anteroom barriers, including floors and ceiling using approved materials (UL schedule firestop if applicable for barrier type). 6. Construct anteroom large enough for equipment staging, cart cleaning, workers. The anteroom must be constructed adjacent to entrance of construction work area. 7. Personnel will be required to wear coveralls at all times during Class V work activities. Coveralls must be removed before leaving the anteroom. 8. Remove or isolate return air diffusers to avoid dust entering the HVAC system. 9. Remove or isolate the supply air diffusers to avoid positive pressurization of the space. 10. Negative airflow pattern must be maintained from the entry point to the anteroom and into the construction area. The airflow must cascade from outside to inside the construction area. The entire construction area must remain negatively pressurized. 11. Maintain negative pressurization of the entire workspace using HEPA exhaust air systems directed outdoors. Exhaust discharged directly to the outdoors that is 25 feet or greater from entrances, air intakes and windows does not require HEPA-filtered air. 12. If exhaust is directed indoors, then the system must be HEPA filtered. Prior to start of work, HEPA filtration must be verified by particulate measurement as no less than 99.97% efficiency and must not alter or change airflow/pressure relationships in other areas. 13. Exhaust into shared or recirculating HVAC systems, or other shared exhaust systems (bathroom exhaust) is not acceptable. 14. Install device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor negative pressurization. The "ball in the wall" or similar apparatus are not acceptable. 15. Contain all trash and debris in the work area. 16. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 17. Worker clothing must be clean and free of visible dust before leaving the work area anteroom. 18. Workers must wear shoe covers prior to entry into the work area. Shoe covers must be changed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be immediately changed. 19. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 20. Consider collection of particulate data during work to monitor and ensure that contaminates do not enter the occupied spaces. Routine collection of particulate samples may be used to verify HEPA filtration efficiencies.	Construction areas must be inspected by an infection preventionist or designee and engineering representative for discontinuation or downgrading of ICRA precautions. Work Area Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. 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Negative air devices must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers. HVAC systems: 1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed. 2. Verify that HVAC systems are clean and operational. 3. Verify the HVAC systems meets original airflow and air exchange design specifications.

SHEET NOTES:

A. TAPE ALL SERVICES TO PROTECT AGAINST CONTAMINATION

B. THE CONTRACTOR SHALL NOT HAUL DEBRIS THROUGH PATIENT-CARE AREAS WITHOUT PRIOR APPROVAL OF THE COR AND THE MEDICAL CENTER

C. USING A HEPA VACUUM, CLEAN INSIDE THE BARRIER AND VACUUM CEILING TILE PRIOR TO REPLACEMENT. ANY CEILING ACCESS PANELS OPENED FOR INVESTIGATION BEYOND SEALED AREAS SHALL BE SEALED IMMEDIATELY WHEN UNATTENDED.

D. AT COMPLETION, REMOVE CONSTRUCTION BARRIERS AND CEILING PROTECTION CAREFULLY, OUTSIDE OF NORMAL WORK HOURS. VACUUM AND CLEAN ALL SURFACES FREE OF DUST AFTER THE REMOVAL.

E. CONTRACTOR TO VERIFY AND COORDINATE FINAL AND APPROVED ICRA MEASURES WITH THE NASHVILLE VA MEDICAL CENTER'S ICRA PERSONNEL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITY.

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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JAMES V EZEKIEL
BICSI ID# 290762
EXPIRES 12-31-24

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
6/12/2024

PROJECT MANAGER

ACG Project Number 22-215

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Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

Drawing Title: ICRA INFORMATION AND DETAILS

Location: ALVIN C. YORK CAMPUS
3400 LEBANON ROAD
MURFREESBORO, TN 37129

Project Title: VIDEO SURVEILLANCE SECURITY YORK

Approved

Date: JUNE 13, 2024 | Checked: GTS | Drawn: NPM

VA PROJECT NUMBER: 626A4-22-104

Building Number: #

Drawing Number: G-100

Dwg 3 of 3

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CABLES AND CONNECTORS COLOR LEGEND

DESCRIPTION ITEM	JACK	CABLE	PATCH CABLES	I.D.	CONDUIT COLOR	NOTES
TELEPHONE	IVORY	IVORY	IVORY	T	-	4 PAIR CABLE
DATA/COMPUTER	BLUE	BLUE	BLUE	C	BLUE[1]	4 PAIR CABLE
WIRELESS ACCESS POINT	GREEN	GREEN[3]	GREEN	WAP	-	4 PAIR CABLE
FIBER - MULTI-MODE	BLACK	AQUA	AQUA	FO	-	6/12/24/36
FIBER - SINGLE-MODE	IVORY	YELLOW[3]	YELLOW	FO	-	6/12
SOUND SYSTEM	N/A	GREEN[3]	N/A	SS	YELLOW[2]	MULTI COLOR CONDUCTORS
NURSE CALL	N/A	YELLOW[3]	N/A	NC	YELLOW[2]	4 PAIR UTP
MATV	N/A	BLACK	N/A	MATV	YELLOW[2]	COAX RG6
SSTV - IP	WHITE	WHITE	WHITE	SSTV	YELLOW[2]	SSTV
PACS	N/A	GRAY	N/A	PACS	YELLOW[2]	MULTI COLOR CONDUCTORS

1. HORIZONTAL DATA RUNS SHALL BE INSTALLED IN BLUE CONDUIT WHERE USED FOR HORIZONTAL DATA CABLING. OTHER THAN HORIZONTAL CABLING CONDITIONS SHALL BE IDENTIFIED BY THE FOLLOWING COLORS:
   - DEMARCATION POINT - ORANGE
   - NETWORK CONNECTION - GREEN
   - FIRST LEVEL, TERMINATING BUILDING BACKBONE, MC(CD) TO IC(BD) - WHITE
   - SECOND LEVEL, IC(BD) TO TR(HD/FD) - GRAY
   - CAMPUS BACKBONE - BROWN
2. YELLOW CONDUIT SHALL HAVE A SECONDARY IDENTIFIER COLOR ADDED AS A STRIPE IN ORDER TO INDICATE SPECIFIC SYSTEM SERVED. COORDINATE SECONDARY INDICATING COLOR WITH COR.
3. WHERE MULTIPLE SYSTEMS UTILIZE THE SAME CABLE COLOR, SYSTEM SPECIFIC CABLING SHALL HAVE A STRIPE IN ORDER TO INDICATE SPECIFIC SYSTEM SERVED. COORDINATE STRIPE COLOR FOR SPECIFIC SUBSYSTEMS WITH COR.

SECURITY SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
PACS	6' TO TOP	PHYSICAL ACCESS CONTROL SYSTEM
CR	48"	CARD READER (K - KEYPAD)
ES	DOOR	ELECTRONIC LOCKING MECHANISM
EP	DOOR	ELECTRONIC PANIC HARDWARE
DC	DOOR	DOOR CONTACT
RX	ABOVE DOOR	REQUEST FOR EXIT SENSOR
ADO	DOOR	DOOR OPERATOR
	48"	HANDWAVE
	48"	EMERGENCY EXIT BUTTON TO RELEASE DOOR (EEB)
MD	88"	MOTION DETECTOR
	54"	INTERCOM WITH CAMERA
M	DESK	INTERCOM MASTER WITH PUSH TO RELEASE DOOR
H6	CEILING	SSTV H6 ANALYTIC DOME CAMERA FIXED
H6SL	CEILING	SSTV H6SL NON ANALYTIC DOME CAMERA FIXED
SW	CEILING	SSTV H6SL NON ANALYTIC DOME CAMERA FIXED, 2MP VARIENT FOR STAIRWELL
DH	CEILING	SSTV DUAL HEAD CAMERA FIXED
90	CEILING	SSTV 90 DEGREE PANORAMIC MULTISENSOR CAMERA
180	CEILING	SSTV 180 DEGREE PANORAMIC MULTISENSOR CAMERA
270	CEILING	SSTV 270 DEGREE PANORAMIC MULTISENSOR CAMERA
360	CEILING	SSTV 360 DEGREE PANORAMIC MULTISENSOR CAMERA
FE	CEILING	SSTV FISHEYE PANORAMIC CAMERA
SSTV	FLOOR	SSTV CAMERA EQUIPMENT CABINET
AOF	6' TO TOP	AREA OF REFUGE PANEL
AOFA	6' TO TOP	AREA OF REFUGE ANNUNCIATION PANEL
IC	48"	AREA OF REFUGE INTERCOM
S	CEILING	AREA OF REFUGE STROBE LIGHT
DP	48"	DURESS PANIC ALARM PUSH BUTTON
DPP	6' TO TOP	DURESS PANIC ALARM PANEL

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

WALL RATING LEGEND

- 2 HOUR FIRE SEPARATION
- 1 HOUR FIRE SEPARATION
- SMOKE RATED

GENERAL TECHNOLOGY SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION	
N	18"	DATA OUTLET - N-4 PR UTP	(N - QUANTITY)
N	48"	TELCO OUTLET - N-4 PR UTP	(N - QUANTITY)
W	48"	WALL PHONE JACK	
N	CEILING	WIRELESS ACCESS POINT - N-4 PR UTP	(N - QUANTITY)
S N	CEILING	SECURE WIRELESS ACCESS POINT - N-4 PR UTP	(N - QUANTITY)
	AS NOTED	TV OUTLET WALL MOUNTED	
	FLOOR	CHANNEL TR EQUIPMENT RACK	
	FLOOR	TR EQUIPMENT CABINET	
MATV	6' TO TOP	MATV EQUIPMENT CABINET	
	ABOVE CEILING	LADDER CABLE TRAY (4" HIGH - SEE PLANS FOR OTHER DIMENSIONS)	
	18"	GROUND BUS	
	8"	4'x8'x3/4" FIRE RETARDED TTB	
M	FLOOR	HIGH CAPACITY FLOOR BOX FOR DATA (2-4P) & POWER (4-RECEPTACLE)	
J	AS NOTED	JUNCTION BOX - AS NOTED ON PLANS	

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

TECHNOLOGY GENERAL NOTES

1. PROVIDE TECHNOLOGY DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICANS WITH DISABILITIES ACT, LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, BICSI STANDARDS, AND VA OIT STANDARDS.
2. PROVIDE ADDITIONAL SUPPORT FOR DEVICES AND EQUIPMENT WHERE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
3. FIRESTOP, DRAFTSTOP, SMOKESTOP OR PROTECT ANNULAR SPACE AROUND PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILINGS, AND ROOF IN ACCORDANCE WITH REQUIREMENTS OF NFPA 70, UL LISTING REQUIREMENT AND APPLICABLE BUILDING CODES.
4. PROVIDE CABLING THAT COMPLIES WITH THE LATEST EDITION OF TELECOMMUNICATIONS DISTRIBUTION METHOD MANUAL AND ANSI/TIA/EIA PUBLICATIONS.
5. COMPLY WITH THE LATEST ANSI/TIA/EIA 758 AND 607D - BONDING AND GROUNDING TELECOMMUNICATIONS.
6. COMPLY WITH THE LATEST ANSI/TIA/EIA 568.1E - COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING STANDARD.
7. COMPLY WITH THE LATEST ANSI/TIA/EIA 569E - TELECOMMUNICATIONS PATHWAYS AND SPACES.
8. COMPLY WITH ANSI/TIA-1069 STANDARD FOR HOSPITAL SIGNALING & NURSE CALL EQUIPMENT.
9. COMPLY WITH ANSI/TIA-1179 HEALTHCARE FACILITY TELECOMMUNICATION INFRASTRUCTURE STANDARD.
10. COMPLY WITH THE LATEST NFPA 70 NATIONAL ELECTRICAL CODE.
11. COMPLY WITH THE LATEST NFPA 99 HEALTHCARE FACILITIES CODE.
12. COMPLY WITH THE LATEST NFPA 101 LIFE SAFETY CODE.
13. CONTRACTOR RESPONSIBLE FOR THE COORDINATION OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
14. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL IN ACCORDANCE WITH SPECIFIED PROCESSES FOR APPROVAL AND APPROVED BY THE COR WILL BE ACCEPTABLE. COMPLY WITH "BUY AMERICAN ACT".
15. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, BOXES, OUTLET, OR EQUIPMENT UNLESS NOTED OTHERWISE.
16. PROVIDE RGS OR EMT CONDUIT UNLESS OTHERWISE NOTED.
17. PROVIDE MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT LABEL LISTED BY APPROVED THIRD PARTY TESTING AGENCY.
18. NOTIFY COR REGARDING DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS FOR CLARIFICATION. THE MORE STRINGENT SHALL TAKE PRECEDENCE.
19. PROVIDE TIA/EIA 4 PR UTP COPPER CABLE, JACKS, AND CONNECTORS.
20. ALL WORK AREA OUTLETS SHALL BE 8 PIN, 8P8C KEYSTONE JACK WIRED PER T568B.
21. LABEL DEVICES IN ACCORDANCE WITH LATEST ANSI/TIA 606A OR 606B EDITION AS WELL AS THE STANDARDS SET FORTH BY THE VAMC OIT.
22. PROVIDE A MINIMUM OF 12" CLEARANCE ABOVE THE CABLE TRAY PER TIA/EIA 569.B PARAGRAPH 4.5.6.2.
23. VA SHALL CONDUCT A WAP SURVEY AND PROVIDE THE SURVEY TO THE CONTRACTOR. CONTRACTOR SHALL INSTALL CABLING AND EQUIPMENT IN ACCORDANCE WITH THE SURVEY. COORDINATE WITH COR/OIT.
24. ALL CABLING INSTALLED ABOVE CEILING SHALL BE PLENUM RATED.
25. MINIMUM CONDUIT SIZE TO BE USED IS 1 1/4" CONDUIT.
26. WALL MOUNTED DEVICES PLACED IN TELECOMMUNICATIONS ROOM TO BE MOUNTED ON FIRE RETARDANT PLYWOOD.
27. ALL CAMERAS SHALL BE IN COMPLIANCE WITH THE NATIONAL DEFENSE AUTHORIZATION ACT.

TECHNOLOGY ABBREVIATIONS LIST

ADO	AUTOMATIC DOOR OPERATOR	OC	ON CENTER
AFF	ABOVE FINISH FLOOR	OIT	OFFICE OF INFORMATION TECHNOLOGY
AFG	ABOVE FINISH GRADE		
		PACS	PHYSICAL ACCESS CONTROL SYSTEM
BOD	BASIS OF DESIGN	PAMN	PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEM
		PB	PUSH BUTTON
CCTV	CLOSED CIRCUIT TELEVISION	PBB	PRIMARY BONDING BUSBAR
COAX	COAXIAL CABLE	PDU	RACK POWER DISTRIBUTION UNITS
COMM	COMMUNICATION	POE	POWER OVER ETHERNET
COR	CONTRACTING OFFICER REPRESENTATIVE	PR	PAIR
DC	DOOR CONTACT SWITCH	RBB	RACK BONDING BUSBAR
DN	DOWN	RGS	RIGID GALVANIZED STEEL CONDUIT
DO	DOOR OPERATOR	RX	REQUEST TO EXIT
DVC	DIGITAL VOICE COMMAND		
DVR	DIGITAL VIDEO RECORDER	SBB	SECONDARY BONDING BUSBAR
		SEP	SERVICE ENTRANCE PROTECTION
E	EXISTING DEVICES	SLC	SIGNALING LINE CIRCUIT
EEB	EMERGENCY EXIT BUTTON	SM	SINGLE MODE FIBER
EL	ELECTRICAL STRIKE	SSTV	SECURITY SURVAILLANCE TELEVISION SYSTEM
EMT	ELECTRICAL METALLIC CONDUIT		
ETR	EXISTING TO REMAIN	TBB	TELECOM BONDING CONDUCTOR
		TEL	TELEPHONE
FA	FIRE ALARM	TM	TELEMONITORING
FACP	FIRE ALARM CONTROL PANEL	TP	TWISTED PAIR
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TR	TELECOM ROOM
FO	FIBER OPTIC	TTB	TELEPHONE TERMINAL BOARD
FAGAP	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL	TV	TELEVISION
IT	INTERCOMMUNICATION ROOM	WM	WIRE MANAGEMENT
		WAP	WIRELESS ACCESS POINT
MATV	MASTER ANTENNA TELEVISION		
MMF	MULTI MODE FIBER	UL	UNDERWRITERS LABORATORY
		UPS	UNINTERRUPTIBLE POWER SUPPLY
NAC	NOTIFICATION APPLIANCE CONTROL PANEL	UTP	UNSHIELDED TWISTED PAIR
N	NEW DEVICES		
NCA	NETWORK CONTROL ANNUNCIATOR		
NS	NO SCALE		
NTS	NOT TO SCALE		
NVR	NETWORK VIDEO RECORDER		

CAMERA TYPE SCHEDULE

HEIGHT	TYPE	DESCRIPTION	MANUFACTURER	COUNT
12'-0" AFG UNO	H5A DH	SSTV DUEL HEAD	AVIGILON (BASIS OF DESIGN)	11
12'-0" AFG UNO	H5A FE	SSTV FISH EYE	AVIGILON (BASIS OF DESIGN)	17
12'-0" AFG UNO	H5A MS 180	SSTV MULTISENSOR	AVIGILON (BASIS OF DESIGN)	2
12'-0" AFG UNO	H5A MS 270	SSTV MULTISENSOR	AVIGILON (BASIS OF DESIGN)	47
12'-0" AFG UNO	H5A MS 360	SSTV MULTISENSOR	AVIGILON (BASIS OF DESIGN)	13
12'-0" AFG UNO	H6	SSTV FIXED DOME	AVIGILON (BASIS OF DESIGN)	112
12'-0" AFG UNO	H6SL	SSTV FIXED DOME	AVIGILON (BASIS OF DESIGN)	23
12'-0" AFG UNO	H6SL SW	SSTV FIXED DOME	AVIGILON (BASIS OF DESIGN)	17
Grand total: 242				242

PROPOSED PHASING SCHEME

1. INSTALL FIBER BACKBONE CABLING FROM NEW SECURITY CAMERA HEADENED EQUIPMENT TO NEW POE CISCO SWITCH TO BE INSTALLED IN ROOM 115, BUILDING 5, TO FACILITATE CONNECTION TO CAMPUS SECURED FIBER OPTIC NETWORK.
2. RUN NEW CAT6A COPPER CABLES (OR FIBER CABLES FOR DISTANCES OVER 90 METERS) FROM EXISTING IT ROOM TO CAMERA LOCATIONS.
3. INSTALL SECURITY CAMERA HEADEND EQUIPMENT, CONDUIT ALONG WITH EQUIPMENT RACK IN SERVER ROOM 115 AND REQUIRED POWER OUTLETS.
4. INSTALL MONITORS IN POLICE DISPATCH ROOM.
5. INSTALL WALL MOUNTED AND CEILING MOUNTED SECURITY CAMERAS. NEW CAMERAS TO BE CONNECTED PRIOR TO REMOVAL OF THOSE BEING REPLACED TO AVOID BLIND SPOTS.
6. MAKE CONNECTIONS TO CAMERAS.
7. REMOVE ALL REMAINING EXISTING CAMERAS, EQUIPMENT AND CABLING.
8. REMOVE ALL REMAINING EXISTING CAMERAS, EQUIPMENT AND CABLING.
9. REMOVE REPLACED EXISTING CAMERAS AND UNUSED POWER AND DATA CABLES.

FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

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Drawing Title: TECHNOLOGY GENERAL NOTES, SYMBOL LEGEND, AND ABBREVIATIONS

Project Title: VIDEO SURVEILLANCE SECURITY YORK

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Building Number: #

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Dwg 1 of 26

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