

GENERAL NOTES

- ALL CAMERAS SHOWN ON THIS SHEET SHALL REQUIRE A LOCAL 120V TO 24 /28 V POWER SUPPLY OR A RACK MOUNT 120V TO 24 /28V POWER SUPPLY AT THE CLOSEST TELECOMM ROOM (TR).

KEYNOTES

- EXISTING CAMERA TO BE REPLACED, EXISTING MOUNT TO BE RE-USED
- EXISTING CAMERA AND MOUNT TO BE REPLACED
- NEW CAMERA LOCATION
- DUCT ALTERNATE #2. REFER TO BID FORM.

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



SITE PLAN
 SCALE: 1" = 50'-0"

A
 B
 C
 D
 E
 F

ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

KJ ENGINEERING CONSULTANTS
 Experience you can build on
 870 SUMNER DRIVE, SUITE 104
 2110210, MUSKOGEE, OK 74403
 204-211-2124
 FAX: 204-211-1173
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ARCHITECTS/ENGINEERS:

303rd Engineering Group, LLC
 Service-Disabled Veteran-Owned Small Business
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Dept. of Veterans Affairs
Jack C. Montgomery
Medical Center
1011 Honor Height Drive
Muskogee, Oklahoma 74401

APPROVED: _____

Drawing Title:
SITE PLAN

Scale:
AS SHOWN

Building Number:
SITE

Project Title:
REPLACE SURVEILLANCE SYSTEM

Approved: **TWC - JCMVAMC** Checked By: **DAVLAR** Drawn By: **KEIEVE**

Location: **Jack C. Montgomery VA Medical Center - Muskogee, OK**

Date: **08.23.13**

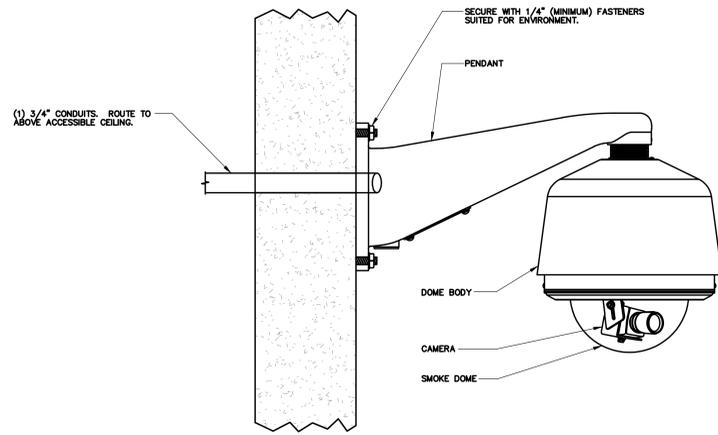
Project No.: **623.12.105**

Drawing No.: **00 TY001**
 Dwg. 26 of 122



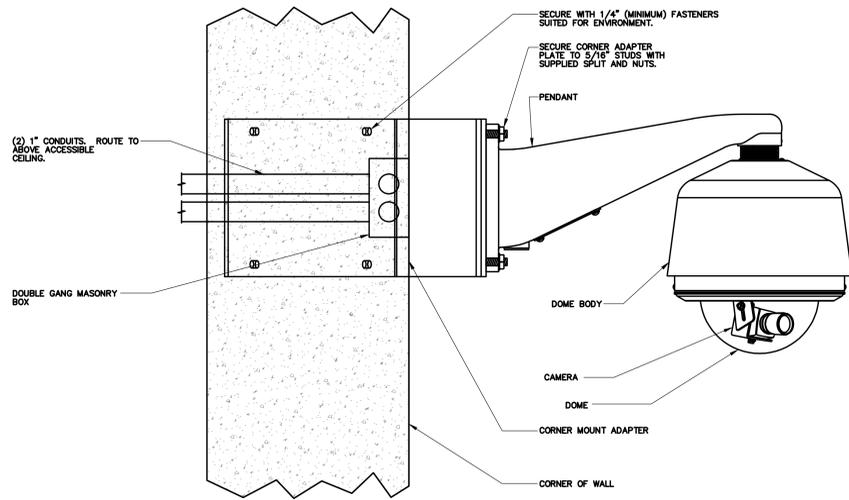
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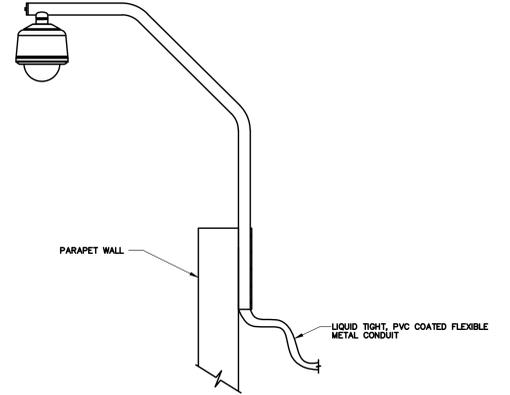
1 EXTERIOR WALL MOUNT CAMERA DETAIL

- NO SCALE
 NOTES:
 1. SECURE WALL MOUNT BASE PLATE TO CMU WITH MINIMUM 1/4\"/>



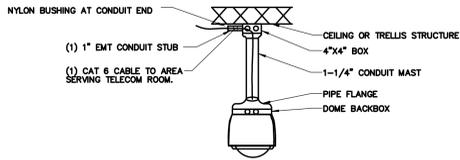
2 EXTERIOR CORNER MOUNT PTZ CAMERA DETAIL

- NO SCALE
 NOTES:
 1. SECURE WALL MOUNT BASE PLATE TO CMU WITH MINIMUM 1/4\"/>



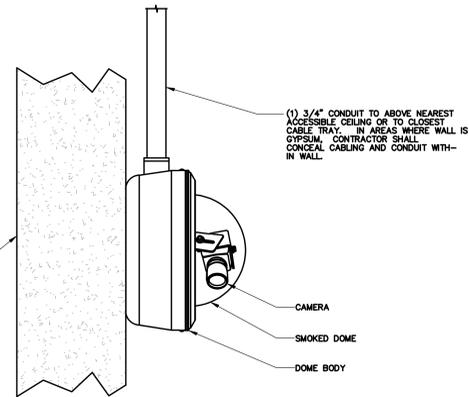
3 EXTERIOR PARAPET MOUNTING DETAIL

- NO SCALE
 NOTES:
 1. SECURE WALL MOUNT BASE PLATE TO PARAPET WALL WITH MINIMUM 1/4\"/>



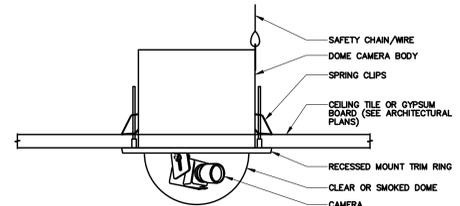
4 PENDANT MOUNTING DETAIL

- NO SCALE
 NOTES:
 1. COORDINATE INSTALLATION WITH OWNER PRIOR INSTALLATION.
 2. CONTRACTOR SHALL ENSURE SUPPORT OF ALL OPEN CABLE WITH APPROPRIATE MEANS.
 3. THE DETAIL IS DIAGRAMMATIC, AND IS NOT INTENDED TO CONVEY ALL EQUIPMENT, CONDUCTORS, CONNECTIONS, AND QUANTITIES REQUIRED. CONTRACTOR SHALL PROVIDE EQUIPMENT AS NECESSARY TO SUPPORT ALL CAMERAS AS SHOWN ON PLANS.
 4. PAINT RACEWAY TO MATCH FINISH OF EXISTING WALLS.
 5. CABLE SHALL BE TERMINATED WITH AN RJ-45 PLUG FOR DIRECT CONNECTION TO DEVICE.
 6. COORDINATE WITH OWNER FOR MAST LENGTH.



5 INTERIOR FIXED CAMERA WALL MOUNTING DETAIL

- NO SCALE
 NOTES:
 1. COORDINATE EXACT LOCATION OF CAMERA ON SITE WITH WORK BY OTHER TRADES TO ENSURE DESIRED VIEWING AREA AND SERVICE ACCESS AFTER COMPLETION OF PROJECT AND TO MINIMIZE ANY POSSIBLE DAMAGE TO INSTALLED CAMERA OR ASSOCIATED CABLING.
 2. CONDUIT SHALL STUB TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT. WHERE CONDUIT STUBS THROUGH A WALL IN TO A CORRIDOR AND TERMINATES AT AN ASSOCIATED J-HOOK ROUTE, THE CONDUIT SHOULD ONLY EXTEND 2-4 INCHES IN TO THE CORRIDOR. WHERE CONDUIT STUBS TO AN ASSOCIATED CABLE TRAY, CONDUIT SHOULD EXTEND TO CABLE TRAY. ALL CONDUITS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
 3. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR CAMERA ROUTING PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.
 4. REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE FOR MOUNTING HEIGHT OF CAMERA.



6 INTERIOR RECESSED CAMERA CEILING MOUNTING DETAIL

- NO SCALE
 NOTES:
 1. COORDINATE INSTALLATION WITH CEILING INSTALLATION.
 2. REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION.

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 TECHNOLOGY | MEDICAL EQUIPMENT SOLUTIONS

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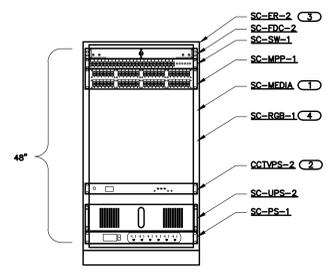
Dept. of Veterans Affairs
 Jack C. Montgomery
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 1011 Honor Height Drive
 Muskogee, Oklahoma 74401

APPROVED:	APPROVED: President AF.G.E. 2250	APPROVED: Energy Engineer	APPROVED: Medical Center Director
APPROVED:	APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director
APPROVED:	APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

Drawing Title: TECHNOLOGY DETAILS	Scale: AS SHOWN	Building Number: SITE
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Project Title: REPLACE SURVEILLANCE SYSTEM	Date: 08.23.13
Approved: TWC - JCMVAMC	Checked By: DAVLAR
Drawn By: KEIEVE	Project No.: 623.12.105
Location: Jack C. Montgomery VA Medical Center - Muskogee, OK	Drawing No.: 00 TY300
	Dwg. 27 of 122

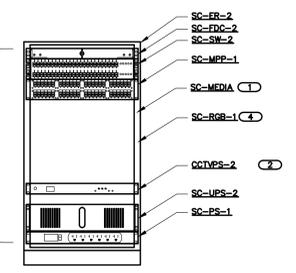
ISSUED FOR CONSTRUCTION



1 RACK ELEVATION - 24 PORT SWITCH

- NO SCALE
 NOTES:
 1. COORDINATE MOUNTING LOCATIONS WITH OWNER.
 2. REFER TO 2/00 TY401 FOR CONNECTIVITY DIAGRAM.
 3. REFER TO 00 TY600 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
 4. RACK SHALL HAVE TWO DOOR POSITION SWITCHES, ONE FOR THE FRONT AND ONE FOR THE WALL SIDE. SWITCHES SHALL BE PLUNGER OR ROLLER, THEY SHALL NOT BE MAGNETIC.
 5. NETWORK VIDEO RECORDER MAY BE PRESENT IN THE RACK.

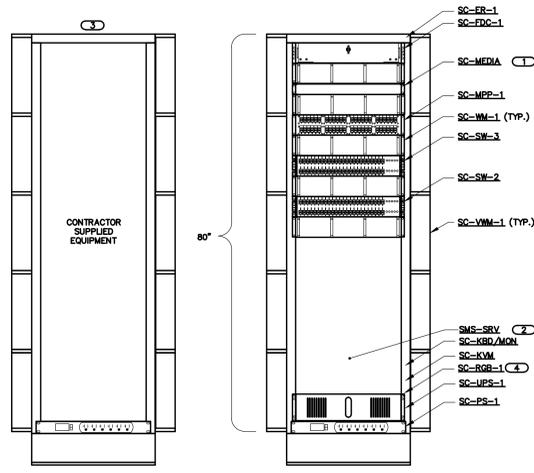
- KEYNOTES:
 1. MEDIA CONVERTERS ARE ONLY PRESENT WHEN AN EXTERIOR CAMERA IS TERMINATED AT THIS RACK.
 2. POWER SUPPLY IS ONLY PRESENT WHEN AN EXTERIOR CAMERA IS TERMINATED AT THIS RACK. ALTERNATIVELY, A NON-RACK MOUNT POWER SUPPLY MAY BE USED, CCTVPS-1.
 3. CONTRACTOR SHALL FURNISH AND INSTALL PLYWOOD BACKBOARD FOR WALL MOUNTING.
 4. RACK MOUNT GROUNDING BUS BAR BONDED TO NEAREST TELECOMMUNICATIONS GROUNDING BUS BAR. ALL ACTIVE EQUIPMENT SHALL BE BONDED TO THE SC-RGB-1.



2 RACK ELEVATION - 48 PORT SWITCH

- NO SCALE
 NOTES:
 1. COORDINATE MOUNTING LOCATIONS WITH OWNER.
 2. REFER TO 2/00 TY401 FOR CONNECTIVITY DIAGRAM.
 3. REFER TO 00 TY600 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
 4. RACK SHALL HAVE TWO DOOR POSITION SWITCHES, ONE FOR THE FRONT AND ONE FOR THE WALL SIDE. SWITCHES SHALL BE PLUNGER OR ROLLER, THEY SHALL NOT BE MAGNETIC.
 5. NETWORK VIDEO RECORDER MAY BE PRESENT IN THE RACK.

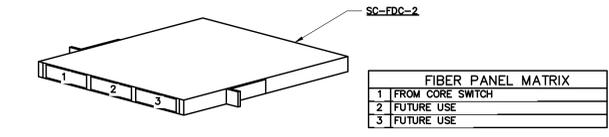
- KEYNOTES:
 1. MEDIA CONVERTERS ARE ONLY PRESENT WHEN AN EXTERIOR CAMERA IS TERMINATED AT THIS RACK.
 2. POWER SUPPLY IS ONLY PRESENT WHEN AN EXTERIOR CAMERA IS TERMINATED AT THIS RACK. ALTERNATIVELY, A NON-RACK MOUNT POWER SUPPLY MAY BE USED, SC-CCTVPS-1.
 3. CONTRACTOR SHALL FURNISH AND INSTALL PLYWOOD BACKBOARD IF RACK IS WALL MOUNTING. RACK MAY BE FLOOR MOUNTED WITH USE OF OPTIONAL CONTRACTOR FURNISHED BASE.
 4. RACK MOUNT GROUNDING BUS BAR BONDED TO NEAREST TELECOMMUNICATIONS GROUNDING BUS BAR. ALL ACTIVE EQUIPMENT SHALL BE BONDED TO THE SC-RGB-1.



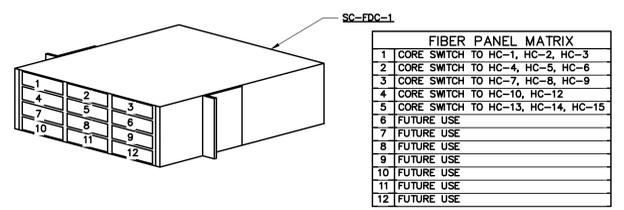
3 MC RACK ELEVATION

- NO SCALE
 NOTES:
 1. COORDINATE MOUNTING LOCATIONS WITH OWNER.
 2. REFER TO 3/00 TY401 FOR CONNECTIVITY DIAGRAM.
 3. REFER TO 00 TY600 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

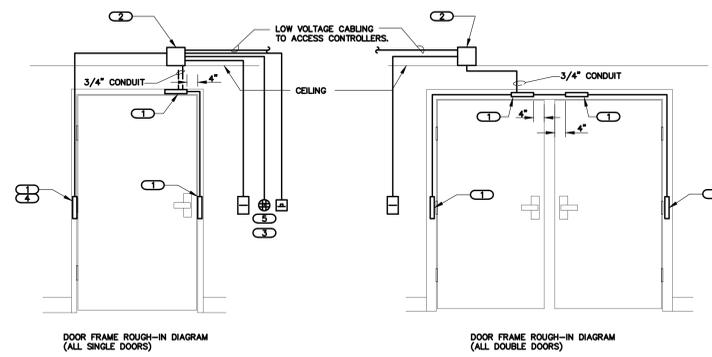
- KEYNOTES:
 1. MEDIA CONVERTERS ARE ONLY PRESENT WHEN AN EXTERIOR CAMERA IS TERMINATED AT THIS RACK.
 2. CONTRACTOR SHALL FURNISH NUMBER OF SERVER TO MEET SPECIFICATIONS. CONTRACTOR SHALL FURNISH CCTV-1 WITH VASS SERVER.
 3. SECOND RACK CONTRACTOR SHALL FURNISH AND INSTALL RACK, SC-MPP-1, SC-UPS-1, SC-PS-1 IN ADDITION TO REQUIRED SERVER(S) AND STORAGE.
 4. RACK MOUNT GROUNDING BUS BAR BONDED TO NEAREST TELECOMMUNICATIONS GROUNDING BUS BAR. ALL ACTIVE EQUIPMENT SHALL BE BONDED TO THE SC-RGB-1.



4 FIBER DISTRIBUTION CABINET - 1RU



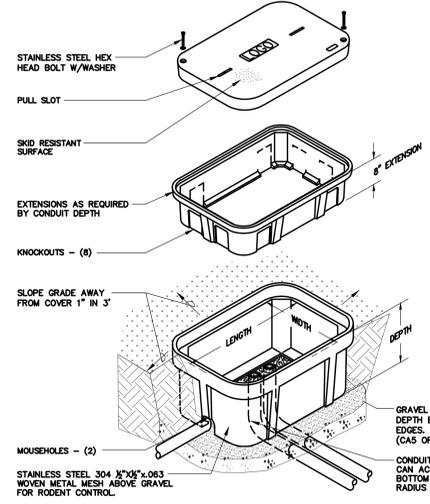
5 FIBER DISTRIBUTION CABINET - 4RU



6 DOOR ROUGH-IN AND WIRING DIAGRAMS

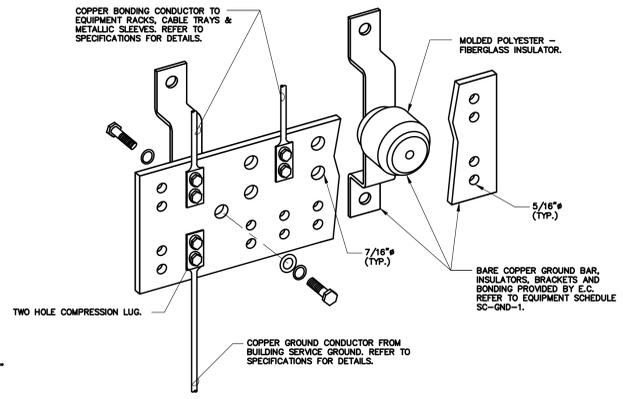
- NO SCALE
 NOTES:
 1. WIRING SHOWN ON THESE DIAGRAMS IS FOR BIDDING PURPOSES AND REPRESENTS MINIMUM REQUIREMENTS. COORDINATE EXACT REQUIREMENTS WITH SELECTED MANUFACTURER.
 2. DETAILS ABOVE MAY NOT BE REPRESENTATIVE OF SPECIFIC DOOR SWING DIRECTION. MIRROR DETAIL AS REQUIRED.
 3. WIRING SHOWN IN CONFIGURATION DETAILS SHALL UTILIZE RELEVANT JUNCTION BOXES SHOWN IN ROUGH-IN DETAIL. ALL WIRING IS CONCEALED IN DOOR FRAME OR DOOR. NO EXPOSED CABLING IS ALLOWED.
 4. CONFIGURATIONS SHOWN ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE SECURITY REQUIREMENTS OF THE DOORS. THEY ARE NOT INTENDED TO ACCURATELY REPRESENT DOOR SIZE, DOOR FUNCTIONALITY OR DOOR HARDWARE. REFER TO ARCHITECTURAL DOOR HARDWARE GROUPS AND SPECIFICATION FOR COMPLETE INFORMATION.
 5. ALL DOOR POSITION SWITCHES SHALL BE RECESSED, CONCEALED TYPE UNLESS OTHERWISE NOTED.
 6. ALL CABLING IN WALLS AND WHEN EXPOSED ON VERTICAL SURFACES, (I.E., THE OVERHEAD DOOR FRAME) SHALL BE ROUTED IN MINIMUM 1/2" EMT CONDUIT. EXPOSED CABLING TRAVELING HORIZONTALLY ALONG THE CEILING DECK OR ABOVE A LAY-IN CEILING MAY BE PLENUM RATED EXPOSED CABLING.
 7. ELECTRIC HINGE MONITORS ARE NOT ACCEPTABLE REPLACEMENTS FOR THE CONCEALED DOOR POSITION SWITCHES.
 8. REFER TO FLOOR PLANS FOR CARD READER LOCATIONS.
 9. FOR FRAMES WHICH ARE GROUTED SOLID, SURFACE MOUNTED RACEWAY AND SURFACE MOUNTED DEVICES SUCH AS DOOR POSITION SWITCHES ARE ALLOWED.

- KEYNOTES:
 1. PROVIDE A JUNCTION BOX IN THE DOOR FRAME WHERE SHOWN ON THE DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. CONNECT THE JUNCTION BOXES IN THE VERTICAL SECTIONS OF THE DOOR FRAME TO THE BOX IN THE HEADER WITH 3/4" EMT.
 2. MOUNT 1 DOUBLE GANG BACKBOX WITH BLANK COVER PLATE ABOVE THE CEILING. MAINTAIN ACCESS TO JUNCTION BOX WHERE CEILING IS A GYPSUM BOARD CEILING, LOCATE BOXES ABOVE NEAREST LAY-IN CEILING AND EXTEND CONDUITS TO THIS LOCATION.
 3. PROVIDE DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING AND 3/4" CONDUIT ABOVE ACCESSIBLE CEILING.
 4. WHERE LOCKING DEVICE REQUIRES CABLING THROUGH THE DOOR, A JUNCTION BOX SHALL BE LOCATED ON THE HINGE SIDE IN THE FRAME WHERE LOCKING DEVICE DOESN'T REQUIRE CABLING THROUGH THE DOOR, A JUNCTION BOX SHALL BE LOCATED ON THE NON-HINGED SIDE IN THE FRAME.
 5. USER ACCESSIBLE DEVICES SUCH AS READER, ANNUNCIATOR AND REQUEST TO EXIT BUTTON SHALL BE 42" TO 48" A.F.F. DEVICES SHALL BE MOUNTED ON THE SAME CENTERLINE.



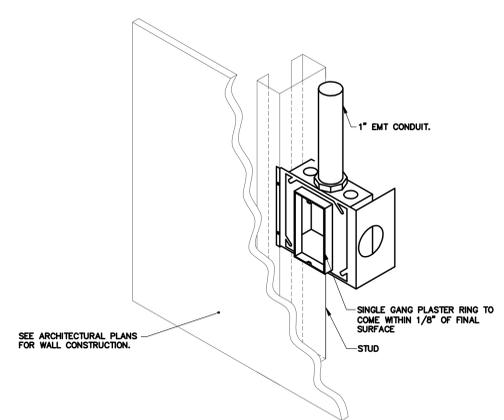
7 EXTERIOR HANDHOLE DETAIL SC-HH

- NO SCALE
 NOTES:
 1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.
 2. ALL SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERSIBLE.
 3. SEAL ALL CONDUIT ENDS WITH DUCTSEAL.



8 BONDING BUS BAR DETAIL

- NO SCALE
 NOTES:
 1. REFER TO EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.



9 TECHNOLOGY ROUGH-IN MOUNTING DETAIL

- NO SCALE
 NOTES:
 1. REFER TO EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.

No.	Description	Date

CONSULTANTS:

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APPROVED: _____
 APPROVED: _____
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 APPROVED: _____

APPROVED: President AF.G.E. 2250
 APPROVED: Safety Manager
 APPROVED: Infection Control Nurse
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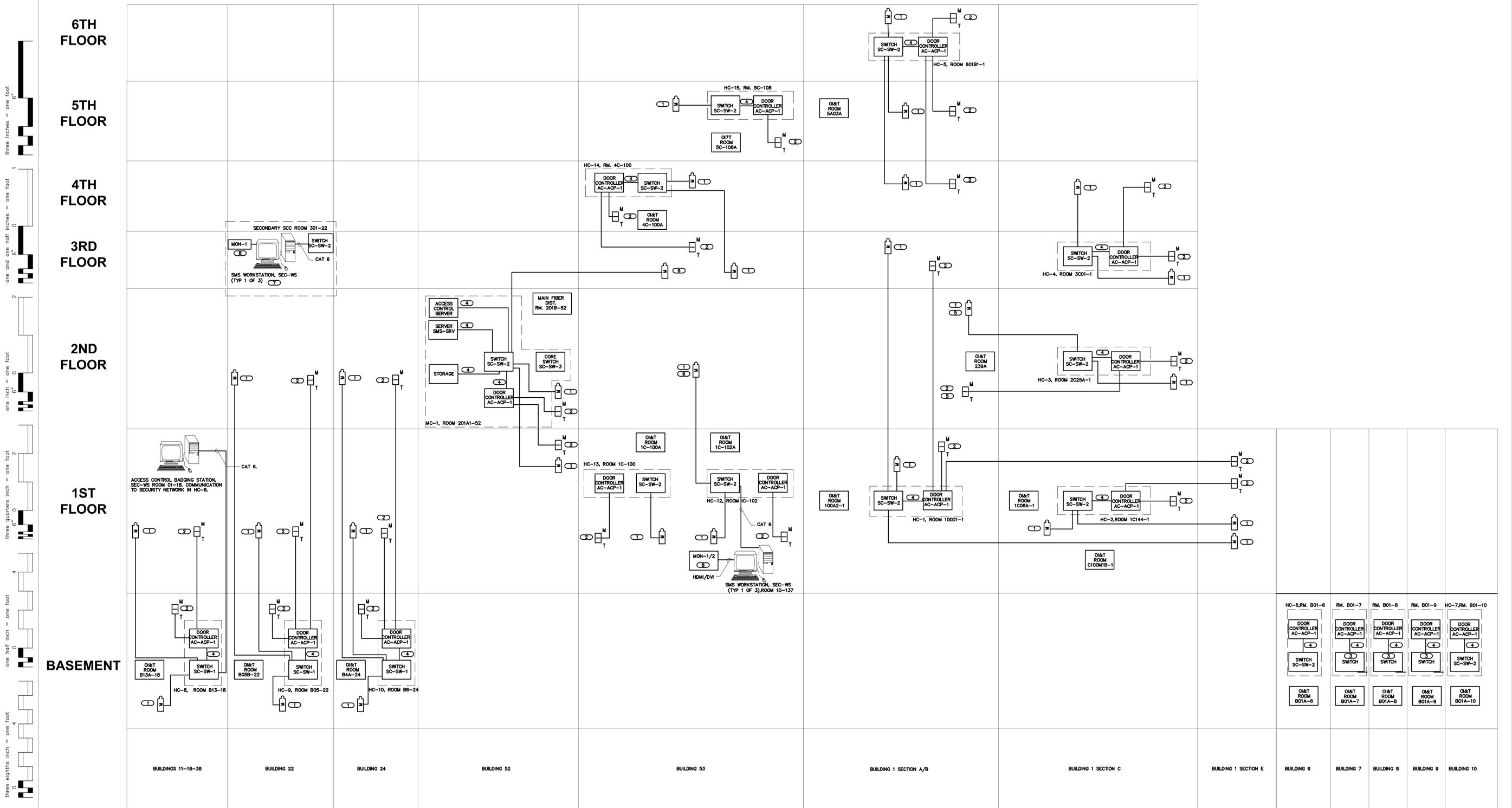
APPROVED: Energy Engineer
 APPROVED: Associate Director
 APPROVED: Chief of Staff
 APPROVED: Chief of Engineering Service

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REPLACE SURVEILLANCE SYSTEM
 Approved: TWC - JCMVAMC
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 Drawn By: KEIEVE
 Location:
Jack C. Montgomery VA Medical Center - Muskogee, OK

Date:
 08.23.13
 Project No.
 623.12.105
 Drawing No.
00 TY301
 Dwg. 28 of 122

ISSUED FOR CONSTRUCTION
 Department of Veterans Affairs



1 TECHNOLOGY RISER DIAGRAM, COPPER

NO SCALE

- NOTES:**
- THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. SEE PLANS FOR MORE SPECIFIC ROUTING INFORMATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO DDY500, 501,502 AND 504 FOR DEVICE LOCATIONS AND QUANTITIES.
 - LEGEND:
CAT 6 OR ACCESS CONTROL CABLE
 - NETWORK SWITCHES AND CONTROL PANELS TO WHICH DEVICES ARE SHOWN CONNECTED ARE RECOMMENDATIONS AND NOT NECESSARILY THE ONLY POSSIBLE TERMINATION LOCATION. DUE TO PHYSICAL BUILDING CONNECTIONS, DEVICES MAY BE WITHIN CABLE DISTANCE LIMITATIONS OF MULTIPLE TERMINATION POINTS.
 - REFER TO DRAWING DDY403 FOR FIBER BACKBONE CONNECTING THE VARIOUS HCs TO THE MC.

- KEYNOTES:**
- ONE TYPICAL CAMERA SHOWN, PER FLOOR, CONNECTED VIA CAT6 CABLE TO ITS ASSOCIATED NETWORK SWITCH. CAMERA POWERED POE. EXTERIOR PTZ CAMERA MAY REQUIRE ADDITIONAL CABLE FOR POWER IF POE+ IS NOT PRACTICAL. REFER TO FLOOR PLANS FOR DEVICE LOCATIONS.
 - ONE TYPICAL READER SHOWN, PER FLOOR, TO ITS ASSOCIATED DOOR CONTROL PANEL. ASSOCIATED DEVICES SUCH AS LOCK ARE NOT SHOWN FOR CLARITY. REFER TO FLOOR PLANS FOR DEVICE LOCATIONS.
 - FOUR (4) PORT HARDENED NETWORK SWITCH, LOCATED IN ENCLOSURE ADJACENT TO DOOR CONTROL PANEL. NEITHER FIBER NOR COPPER PATCH PANEL IS REQUIRED.
 - CAT 6 PATCH CABLE
 - DEVICES IN BUILDING 1 A/B, 2ND FLOOR, ARE SHOWN AS BEING ROUTED TO BUILDING 1C, 2ND FLOOR, SO AS TO REDUCE THE NUMBER OF CABLES BETWEEN FLOORS.
 - SELECT BUILDING 53 DEVICES SHALL BE ROUTED TO BUILDING 52 DUE TO IP DISTANCE LIMITATIONS. OTHER DEVICES MAY BE ROUTED THERE FOR EASE OF INSTALLATION.
 - EACH WORKSTATION SHALL INCLUDE A KEYBOARD/JOYSTICK CONTROLLER IN ADDITION TO STANDARD KEYBOARD AND MOUSE.
 - CONTRACTOR SHALL UTILIZE HDMI EXTENDERS AS REQUIRED

No.	Description	Date

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Drawing Title:
TECHNOLOGY RISER DIAGRAMS

Scale:
AS SHOWN

Building Number:
SITE

Project Title:
REPLACE SURVEILLANCE SYSTEM

Approved: **TWC - JCMVAMC**

Checked By: **DAVLAR**

Drawn By: **KEIEVE**

Location:
Jack C. Montgomery VA Medical Center - Muskogee, OK

Date: 08.23.13

Project No. 623.12.105

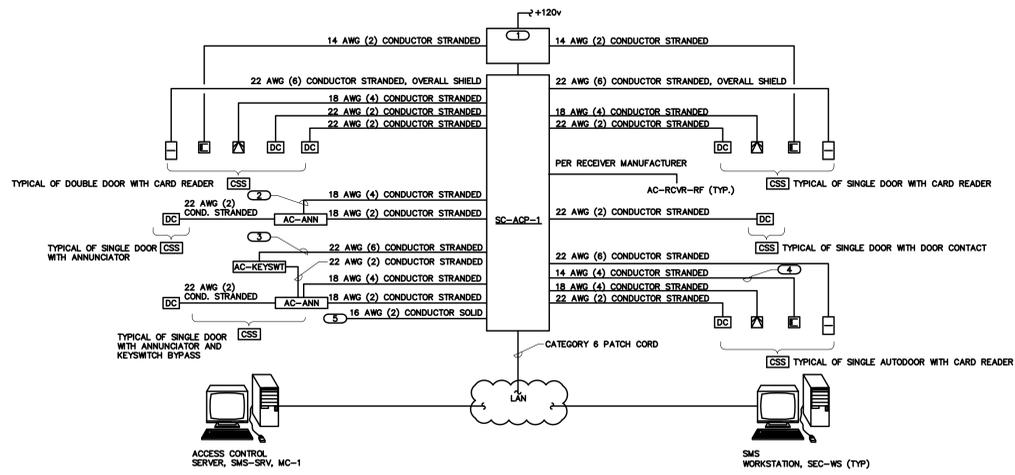
Drawing No. **00 TY400**

Dwg. 29 of 122

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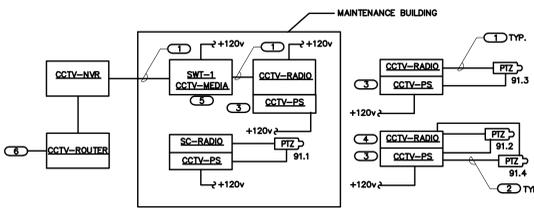


1 ACCESS CONTROL RISER DIAGRAM

NO SCALE
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KEYNOTES:
1 ACCESS CONTROL POWER SUPPLY MAY BE LOCATED IN SAME ENCLOSURE AS ACCESS CONTROL PANEL.
2 ONE PAIR SHALL BE FOR REMOTE SHUNTING FROM SCC, ONE PAIR FOR MONITORING ALARM.
3 KEYSWITCH SHALL BE DPDT FOR LOCAL SHUNTING AND SCC NOTIFICATION OF SHUNTING.
4 CONTRACTOR SHALL COORDINATE WITH DOOR HARDWARE PROVIDER FOR SEQUENCE OF OPERATION OF ADA PADDLE(S), TIMED RELEASE AND ACCESS CONTROL. EXIT ADA PADDLE SHALL ALWAYS BE ACTIVE. ENTRANCE ADA PADDLE SHALL BE ACTIVE ONLY AFTER PRESENTATION OF A VALID BADGE OR DURING DEFINED TIME PERIOD(S). TWO CONDUCTORS OF LOCK CABLE SHALL INTERFACE WITH OPERATOR. ISOLATION RELAY MAY BE LOCATED AT ACCESS PANEL OR AT OPERATOR.
5 NORMALLY CLOSED DRY CONTACT OUTPUT FROM FIRE ALARM SYSTEM.

2 TECHNOLOGY ROOM CONNECTIVITY DIAGRAM (HC-#)

NO SCALE
NOTES:
1. THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. SEE PLANS FOR MORE SPECIFIC ROUTING INFORMATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. LEGEND:
FIBER -
COPPER -
MM - MULTIMODE FIBER
SM - SINGLEMODE FIBER
KEYNOTES:
1 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, SEE SPECIFICATIONS
2 SEE PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET
3 CONTRACTOR PROVIDED CAT8 PATCH CORDS.
4 SEE 00/TY301 FOR SWITCH REQUIREMENTS.

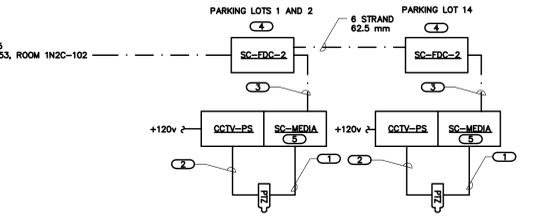


4 CONNECTIVITY DIAGRAM, BUILDING 91, CEMETERY

NO SCALE
NOTES:
1. THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. SEE PLANS FOR MORE SPECIFIC ROUTING INFORMATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. LEGEND:
FIBER -
COPPER -
MM - MULTIMODE FIBER
SM - SINGLEMODE FIBER
KEYNOTES:
1 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, RATED FOR THE ENVIRONMENT. SEE SPECIFICATIONS
2 16 AWG 2 CONDUCTOR, POWER
3 POWER SUPPLY MAY OR MAY NOT BE ADJACENT TO RADIO.
4 IF RADIO DOES NOT HAVE AN INTEGRATED, MULTIPORT SWITCH, CONTRACTOR SHALL FURNISH A HARDENED, 10 / 100 SWITCH WITH A MINIMUM OF 4 PORTS.
5 TWO (2) MEDIA CONVERTERS ARE REQUIRED TO PROVIDE NETWORK ISOLATION FROM SURGES AT THE CAMERA. CONTRACTOR SHALL FURNISH FIBER OPTIC JUMPER TO CONNECT THE TWO CONVERTERS.
6 POSSIBLE FUTURE T1/DSL LINE BY OWNER. OWNER SHALL FURNISH ROUTER.

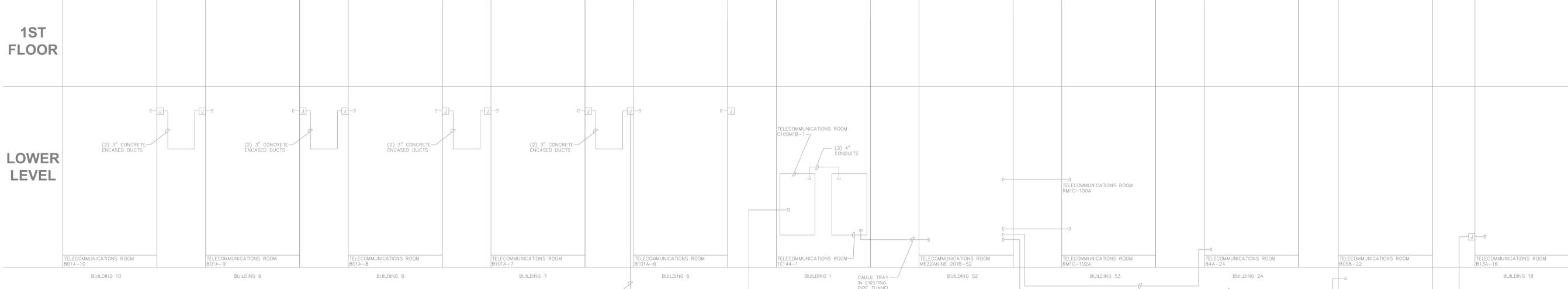
3 TECHNOLOGY ROOM CONNECTIVITY DIAGRAM (MC-1)

NO SCALE
NOTES:
1. THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. SEE PLANS FOR MORE SPECIFIC ROUTING INFORMATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. LEGEND:
FIBER -
COPPER -
MM - MULTIMODE FIBER
SM - SINGLEMODE FIBER
KEYNOTES:
1 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, SEE SPECIFICATIONS
2 SEE PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET
3 CONTRACTOR PROVIDED PATCH CORDS.



5 CONNECTIVITY DIAGRAM, PARKING LOTS 1,2,14

NO SCALE
NOTES:
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2. LEGEND:
FIBER -
COPPER -
MM - MULTIMODE FIBER
SM - SINGLEMODE FIBER
KEYNOTES:
1 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, SEE SPECIFICATIONS
2 16 AWG 2 CONDUCTOR, POWER
3 CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS.
4 FIBER CONNECTOR PANEL, POWER SUPPLY AND MEDIA CONVERTER SHALL BE LOCATED IN A NEMA 4X SS PADLOCKABLE ENCLOSURE WITH COMPONENTS RATED FOR THE TEMPERATURES TO WHICH THEY WILL BE EXPOSED.
5 OTHER HALF OF MEDIA CONVERTER PAIR FOR EACH CAMERA TO BE LOCATED AT POINT OF CONNECTION TO NETWORK SWITCH.



6 EXISTING CONDUIT RISER DIAGRAM

NO SCALE
NOTES:
1. THIS RISER IS BASED ON EXISTING CONDITIONS DEFINED IN DOCUMENTATION FROM A PREVIOUS PROJECT. CONTRACTOR SHALL CONFIRM THAT ANY PATHWAYS INTENDED ON BEING USED FOR THE SYSTEM DEFINED IN THESE PLANS IS PRESENT AND AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR NEW, REQUIRED PATHWAYS.

No.	Description	Date

CONSULTANTS:
KJW ENGINEERING CONSULTANTS
1875 SUMNER DRIVE, SUITE 104
SLIDERS, MISSISSAUGA, ONTARIO
L4R 1A4
TEL: 905.881.1173
WWW.KJW.COM

ARCHITECTS/ENGINEERS:
303rd Engineering Group, LLC
Service-Disabled Veteran-Owned Small Business
1925 ARDENVALE STREET
ST. LOUIS, MO 63118
PHONE: (314) 569-3282
HTTP://WWW.303ENGINEERING.COM

Dept. of Veterans Affairs
Jack C. Montgomery
Medical Center
1011 Honor Height Drive
Muskogee, Oklahoma 74401

APPROVED: _____
APPROVED: _____
APPROVED: _____
APPROVED: _____

APPROVED: President AF.G.E. 2250
APPROVED: Safety Manager
APPROVED: Infection Control Nurse
APPROVED: Industrial Hygienist

APPROVED: Energy Engineer
APPROVED: Associate Director
APPROVED: Chief of Staff
APPROVED: Chief of Engineering Service

APPROVED: Medical Center Director
APPROVED: Chief of Staff
APPROVED: Chief of Engineering Service

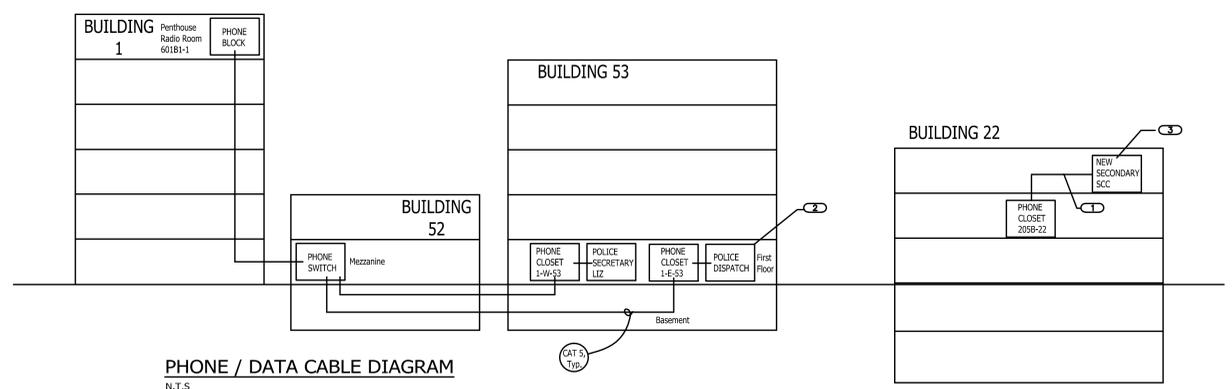
Drawing Title:
TECHNOLOGY RISER DIAGRAMS
Scale:
AS SHOWN
Building Number:
SITE

Project Title:
REPLACE SURVEILLANCE SYSTEM
Approved: TWC - JCMVAMC
Checked By: DAVLAR
Drawn By: KEIEVE
Location:
**Jack C. Montgomery
VA Medical Center - Muskogee, OK**

Date:
08.23.13
Project No.
623.12.105
Drawing No.
00 TY401
Dwg. 30 of 122



ISSUED FOR CONSTRUCTION



PHONE / DATA CABLE DIAGRAM
 N.T.S.
KEYNOTES:
 (1) FOUR (4) VOICE GRADE CABLE PAIRS REQUIRED FOR NEW ZETRON CONSOLE. TO BE ROUTED TO 205B-22, TELEPHONE ROOM ROOM 1D-137, EXISTING ZETRON CONSOLE TO REMAIN.
 (2) ROOM 301-22, LOCATION OF NEW, SECONDARY ZETRON CONSOLE.

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

A
 B
 C
 D
 E
 F

ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

 K J W ENGINEERING CONSULTANTS
 Experience you can build on.
 870 SUMNER DRIVE, SUITE 104
 2110210, MUSKOGEE, OK 74403
 205-424-1234
 FAX: 205-424-1173
 WWW.KJW.COM
 STRUCTURAL | MECHANICAL | ELECTRICAL
 TECHNOLOGY | MEDICAL EQUIPMENT SOLUTIONS

ARCHITECTS/ENGINEERS:

 303rd Engineering Group, LLC
 Service-Disabled Veteran-Owned Small Business
 19225 AIRBORNE STREET
 ST. LOUIS, MO 63118
 PHONE: (314) 564-3282
 HTTP://WWW.303ENGINEERING.COM

Dept. of Veterans Affairs
 Jack C. Montgomery
 Medical Center
 1011 Honor Height Drive
 Muskogee, Oklahoma 74401



APPROVED	APPROVED President AF.G.E. 2250
APPROVED	APPROVED
APPROVED	APPROVED
APPROVED	APPROVED

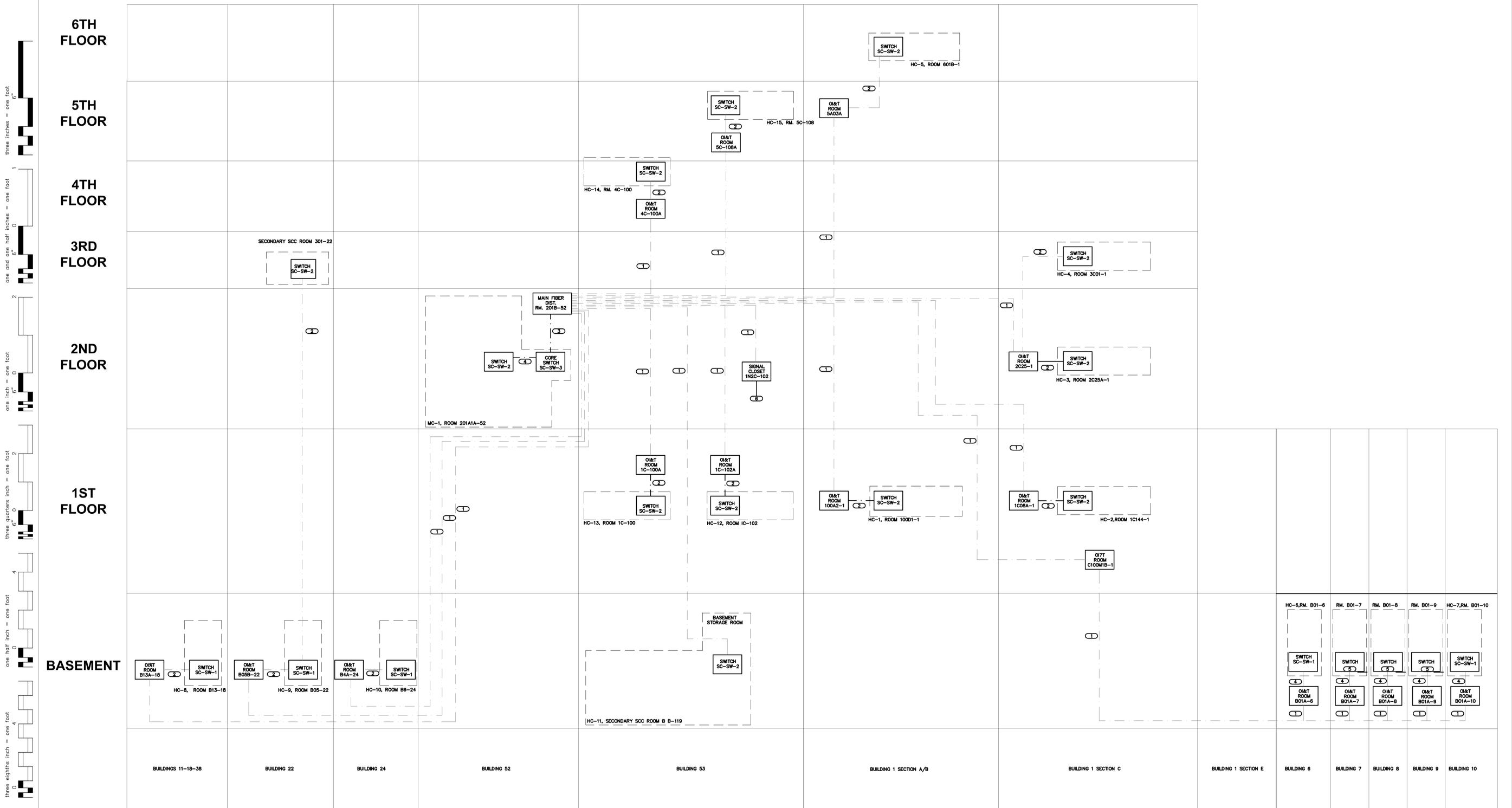
APPROVED Energy Engineer	APPROVED Medical Center Director
APPROVED Safety Manager	APPROVED Associate Director
APPROVED Infection Control Nurse	APPROVED Chief of Staff
APPROVED Industrial Hygienist	APPROVED Chief of Engineering Service

Drawing Title: TECHNOLOGY RISER DIAGRAMS	Scale: AS SHOWN	Building Number: SITE
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Project Title: REPLACE SURVEILLANCE SYSTEM	Date: 08.23.13
Approved: TWC - JCMVAMC	Project No.: 623.12.105
Checked By: DAVLAR	Drawing No.: 00 TY402
Drawn By: KEIEVE	Dwg. 31 of 122

Location: Jack C. Montgomery VA Medical Center - Muskogee, OK

Department of Veterans Affairs



three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

1 TECHNOLOGY RISER DIAGRAM, FIBER OPTIC BACKBONE
 NO SCALE

- NOTES:**
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 - LEGEND:**
 FIBER - ---
 CAT 6 - ---
 MM - MULTIMODE FIBER

- KEYNOTES:**
- EXISTING, SPARE MULTIMODE FIBER TO BE USED.
 - CONTRACTOR FURNISHED, INSTALLED AND TERMINATED 6 STRAND MM FIBER, 50/125
 - CONTRACTOR FURNISHED, INSTALLED AND TERMINATED, 20 DUPLEX FIBER JUMPERS
 - CONTRACTOR FURNISHED, INSTALLED AND TERMINATED, DUPLEX FIBER JUMPER
 - 4 PORT HARDENED SWITCH IN WALL MOUNTED ENCLOSURE
 - FIBER TO PARKING LOTS, EXISTING FROM PARKING LOT LIGHTING PROJECT.

No.	Description	Date

CONSULTANTS:

KJ ENGINEERING CONSULTANTS
 Experience you can build on.
 870 SUMNER DRIVE, SUITE 104
 2111020, MUSKOGEE, OK 74401
 204-212-0224
 FAX: 204-212-1173
 WWW.KJENGINEERING.COM

ARCHITECTS/ENGINEERS:

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Dept. of Veterans Affairs
 Jack C. Montgomery
 Medical Center
 1011 Honor Height Drive
 Muskogee, Oklahoma 74401

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Drawing Title:
TECHNOLOGY RISER DIAGRAMS

Scale:
AS SHOWN

Building Number:
SITE

Project Title:
REPLACE SURVEILLANCE SYSTEM

Approved: TWC - JCMVAMC
 Checked By: DAVLAR
 Drawn By: KEEVE

Location:
 Jack C. Montgomery
 VA Medical Center - Muskogee, OK

Date: 08.23.13
 Project No. 623.12.105
 Drawing No. 00 TY403
 Dwg. 32 of 122

ISSUED FOR CONSTRUCTION

Department of Veterans Affairs