



**NEOSHO**  
**SCHOOL DISTRICT**

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**Neosho VoAg Building  
Internal Connections, Category 2  
Invitation for Competitive Bid**

**Proposals must be submitted to CRW Vendor portal January 16, 2024**

**Inquiries and requests regarding this IFCB should be directed to:**

CRW Consulting  
<https://www.crwconsulting.com/ifcb>  
918.445.0048

## Vendor Data Sheet

<b>Company Name:</b>	
<b>Company Address:</b>	
<b>Tax ID Number:</b>	
<b>Orders Submitted To:</b>	
<b>Payments Submitted To:</b>	
<b>Contact Administrator Information:</b>	<b>Name</b>
	<b>Title</b>
	<b>Address</b>
	<b>Telephone Cell</b>
	<b>Fax</b>
	<b>Email</b>
<b>Anticipated delivery will be _____ DAYS/WEEKS after receiving PO.</b>	

**NEOSHO SCHOOLS  
 INVITATION FOR COMPETITIVE BID – VoAg Building  
 Internal Data Connections - ERATE Program 2024-2025**

The NEOSHO SCHOOL DISTRICT is seeking proposals from qualified vendors to install, replace and/or upgrade the existing data infrastructure for the new VoAg building as described in this Invitation for Competitive Bid (“IFCB”).

### **Scope**

The scope of work consists of all labor to define a complete and functional structured wiring system for the new VoAg building(VoAg). The scope of work includes the installation of cabling, termination, testing, certification and documentation for work area outlets and main equipment room. The installation must meet or exceed all current TIA/EIA specifications listed below. This work includes, but is not limited to, installation of copper and fiber optic cable, terminators, face plates, outlets, labeling, documentation, testing and certification for a telecommunications cabling system to support voice, data and video applications. The intent is to provide all pertinent information to allow the vendor to bid a complete installation. All materials will be supplied by the contractor.

### **VoAg Building**

In April 2023, the voters of the Neosho community approved a bond issue to construct a new Vocational Agriculture building. The anticipated completion is by December 2024/January 2025.

### **Summary of Key Dates**

- December 15<sup>th</sup> **or** December 18<sup>th</sup> - 10 am – Mandatory building plan review. Meet at Neosho High School, 511 S. Neosho Blvd.  
**Contractor attendance at only one meeting is required.**
- December 19, 2023 – End of Question period (Questions submitted through CRW vendor portal)
- January 16, 2024 - IFCB's response due
- February 20, 2024 – Selection of Vendor at Board of Education meeting
- February 21, 2024 – Notification to winning bidder
- Sept/Oct 2024 – Estimated Project start date (contractor to coordinate with project GM)

All materials and equipment must be Original Equipment Manufacturer (OEM), no used or refurbished equipment will be acceptable.

All responding companies must be registered certified providers in the State of Missouri with the ability to supply services and installation to NEOSHO SCHOOLS. As per Board policy DJF-1 (AP), responding companies located in the State of Missouri will be given preference. Winning vendor must register with the District Purchasing Department. In addition, the responding company must be in good standing with the SLD and agree to participate in the E-rate Program.

***Bid Conditions:***

- 
- This will be a "Prevailing Wage" job. Newton County Annual Wage Order #30
- It is required by the district that the contractor is a current BICSI member in good standing and it is also the preference of the district that the contractor has at least one Registered Communications Distribution Designer (RCDD) certification.
- One or more BCSI Certified (Level II) or Certified Network Cable Installer are (CNCI) required on-site during the entirety of installation.
- Contractor shall provide references showing experience on similar size projects listing the name of the project, contact name, telephone number and a brief description of the project, and completion date. The School Representative reserves the right to contact any and all references to determine qualifications for the project.
- Contractor shall provide a project manager for the cable installation who shall act as a single point of contact for all activities regarding the cable project. The contractor's project manager shall be responsible for all aspects of the work, shall have the authority to make immediate decisions regarding changes to the work and shall document progress via various status meetings with the School Representative.
- Contractors are responsible for all errors or omissions in their bids, and any such errors or omissions will not serve to diminish their obligations to the Neosho School District. •The contractor, performing as an independent contractor hereunder, shall be fully responsible for providing Workers' Compensation or other applicable insurance coverage for itself and its employees and Neosho School District shall have no responsibility of liability for such insurance coverage.
- All responding companies must be registered certified providers in the State of Missouri with the ability to supply services and installation to NEOSHO SCHOOLS. As per Board policy DJF-1 (AP), responding companies located in the State of Missouri will be given preference. All responding companies must register as a vendor with the District Purchasing Department. In addition, the responding company must participate in the e-Verify system.
- The Board reserves the right to reject any or all proposals, request new proposals, consider alternate proposals which meet the general specifications set forth and waive any informality.
- The Board reserves the right to award proposals on such products and/or services it deems will best serve the NEOSHO SCHOOLS's interest from the standpoint of price, quality, and suitability for the intended purpose.

## Requirements

- Installation of 223 total cable runs
  - 155 - Cat6
  - 20 - Cat6A
  - 48 - 22/4 Shielded cables
- Quantity 48 22/4 shielded cables ineligible for e-RATE reimbursement. Contractor will indicate these ineligible runs separately on invoice. These cables will be run by the low voltage contractor to designated locations in the building (endpoint and MDF). Contractor will not be responsible for terminating these cables.
- Areas with multiple intercom speakers will require only one cable run to MDF. Additional speakers in the area will be "daisy-chained" from the originating cable. Contractor will be responsible for splice runs as determined by set plans and the Owner.
- Installation of all cable support systems including cable tray
- Installation and termination of fiber cable from service entrance to MDF (SingleMode)
- Installation of data cabling (estimated Sept/Oct 2024 install) including data rack, all patch panels, connectors, patch cables and required cabling components.
- The district data cabling color coding standards for modular ends and patch cables are:
  - Security Camera – Yellow
  - Network clocks – Green
  - Phones – White
  - A/V - Purple
  - Wireless Access Points (Cat6A) - Orange
  - All other data cabling (Cat6) - Blue  
(district reserves the right to change prior to cable purchase if necessary)
- District data material standards are Hubbell Premise or Leviton
- District data cabling backbone will be Berk-Tek LANmark (or **Approved** equivalent)

## **Suggested materials to furnish for MDF and Classroom/Office spaces**

(contractor will supply complete list of required project materials)

- BERK-TEK LANmark-6, Category 6, Plenum UTP Cable, Blue
- BERK-TEK LANmark-10G2, Category 6A, Plenum UTP Cable, Orange
- ARMORED MC FIBER CABLE
- RACKMOUNT FIBER TERMINATION ENCLOSURE AND MODULES
- FIBER WALL CABINET (NEAR SERVICE ENTRANCE)
- HUBBELL OR LEVITON 48-PORT MODULAR RACK MOUNT PATCH PANEL
- HUBBELL OR LEVITON RJ45 CAT 6a, Orange (AP)
- HUBBELL OR LEVITON RJ45, CORRESPONDING DATA CABLE COLORS (RACK)
- HUBBELL OR LEVITON RJ45, LIGHT ALMOND/IVORY (ENDPOINT)
- SURFACE MOUNT HOUSING, SNG PORT, WHITE
- SURFACE MOUNT HOUSING, 2 PORT, WHITE (INCLUDING CAT6A opening)
- HUBBELL/LEVITON CAT 6A SHIELDED **MINI** PATCH CABLE, 1', ORANGE (Qty 20-ENDPNT)
- HUBBELL/LEVITON CAT 6A SHIELDED **MINI** PATCH CABLE, 5', ORANGE (Qty 15 - RACK)
- HUBBELL/LEVITON CAT 6A SHIELDED **MINI** PATCH CABLE, 7', ORANGE (Qty 30 - RACK)
- HUBBELL/LEVITON CAT 6 HIGH-FLEX **MINI** PATCH CABLE, 1', WHITE (Qty 20 -ENDPNT)

## **ADDITIONAL CABLES w/ CORRESPONDING COLORS FOR RACK & ENDPOINTS**

- HUBBELL/LEVITON CAT 6 HIGH-FLEX **MINI** PATCH CABLE, 3'
- HUBBELL/LEVITON CAT 6 HIGH-FLEX **MINI** PATCH CABLE, 5'
- HUBBELL/LEVITON CAT 6 HIGH-FLEX **MINI** PATCH CABLE, 7'
  
- HUBBELL/LEVITON INSERT (BLANKS), LIGHT ALMOND or IVORY (ENDPOINT)
- HUBBELL/LEVITON STAINLESS WALLPLATE, SNG GANG, 2 PORT
- STAINLESS STEEL WALLPLATE W/ BLANK & MOUNT BRACKET - WALLMOUNT PHONE INSTALLATION
- PANDUIT HORIZONTAL (1U & 2U) & VERTICAL MGMT
- HOFFMAN 2 POST FLOOR RACK
- DOUBLESIDED 2-POST RACK SHELF
- GROUNDING BUS BARS & INSULATORS
- VELCRO & ZIP TIES
- CABLOFIL CABLE TRAY MGMT & MOUNTING COMPONENTS (COLOR: BLACK IN MDF TO RACK AND ANY OPEN CEILING AREA, STAINLESS ABOVE DROP CEILING)
- CADDY J-HOOKS, SADDLE RINGS, BRACKETS
- ENTRY SLEEVES w/ SAFETY BUSHING ABOVE CLASSROOM/OFFICE DOORS
- EZ-PASS FIRESTOP PASSTHROUGH (IF NECESSARY, NO FOAM OR CAULK ALLOWED)

## **BACKBONE CABLE DISTRIBUTION INSTALLATION**

The backbone cables shall be routed and supported in the supplied cable tray or conduit in a way as to not interfere with any other cable inside said cable tray or conduit. Core holes & conduits required are the responsibility of the installing contractor. Fiber cables are to be installed in this same manner along a different path in the supplied cable tray.

All backbone cables shall be installed in the following manner:

- Backbone cables shall be installed separately from horizontal distribution cables.
- Where cables are housed in conduits; the backbone and horizontal cables shall be installed in separate conduits or in separate inner ducts within conduits.
- Where backbone cables and distribution cables are installed in a cable tray, backbone cables shall be installed and bundled separately from the horizontal distribution cables.
- Cables shall be installed in continuous lengths from origin to destination (no splices).
- Cables must be unbroken runs between wire closets. No cross connects or transition points shall be allowed for any cables or fiber except for termination into patch panels in wire closets.

## **OPEN CABLE SUPPORT AND INSTALLATION PATHWAYS**

- Where cables are indicated to be installed as 'Open Cabling', cable supports shall be installed to allow cabling to be grouped and run along a common path.
- Cables shall run parallel or at right angles to the building structure, and shall not be looped diagonally across the ceiling space.
- Cables shall be loosely bundled with cable ties at 30 inches on center. Provide plenum rated Teflon cable ties in spaces used to handle environmental air. Provide Velcro-style cable management at workstation and closet. No cable ties are to be used in the closet, or at the workstation.
- Do not support cables from ductwork; sprinkler piping, water piping, waste piping or electrical conduit.
- Provide suitably sized J-Hooks for cables (Caddy) where the cable tray is not installed. Cable supports shall be permanently anchored to building structure or substrates. Provide attachment hardware and anchors designed for the structure to which attached, and that are suitably sized to carry the weight of the cables to be supported.
- Cable shall be installed above fire-sprinkler systems and shall not lie on lights or within 6" of any power and shall not be attached to the system or any ancillary equipment or hardware. The cable system and support hardware shall be installed so that it does not obscure any valves, fire alarm conduit, boxes, or other control devices.
- Cables shall not be attached to ceiling grid or lighting support wires. Where light supports for drop cable legs are required, the contractor shall install clips to support the cabling. • Any cable damaged or exceeding recommended installation parameters during installation should be replaced by the

- contractor prior to final acceptance at no cost to the Owner.
- Cables shall be identified by a self-adhesive label in accordance with the Cable System Labeling section of this specification. The cable label shall be applied to the cable behind the faceplate on a section of cable that can be accessed by removing the cover plate. Faceplates will be labeled with the same identifiers as each cable.
  - Maximum size cable bundles shall be 75 cables per J-Hook. Cable tray is to be utilized where specified.
  - Maximum spacing for supports for open cable runs shall be 48".

### **CABLE SYSTEM TESTING AND DOCUMENTATION**

- Provide a record of installation information to include the following: Cable identifier, Cable point of origin, Cable destination, Cable type, Cable rating, Cable distance/length, Termination hardware and type. All Category 6/6A copper connectivity should be capable of a minimum of Gigabit Ethernet or faster.

### **AS-BUILT DRAWINGS**

- The Installation contractor will be provided with one (1) set of drawings at the start of the project. The set will be designated as the central location to document all as-built information as it occurs throughout the project. Anticipated variations from the build-to drawings may be for such things as cable routing and actual outlet placement. No variations will be allowed to the planned termination positions of horizontal and backbone cables, and grounding conductors unless approved by the Owner.
- The Contractor shall provide the central drawing set to the owner at the conclusion of the project. The marked up drawing set will accurately depict the as-built status of the system including termination locations, cable routing, and all administration labeling for the cable system. In addition, a narrative will be provided that describes any areas of difficulty encountered during the installation that could potentially cause problems to the telecommunications system.



## TEST DOCUMENTATION

Test documentation shall be provided electronically within three weeks after the completion of the project. The file shall be clearly marked "VoAg Test Results," and the date of completion (month and year). The test document shall detail the test method used and the specific settings of the equipment during the test.

## TESTING

Submit Test Results for all installed cabling verifying compliance with all current UTP Channel test requirements. An electronic copy of the test results must be submitted to Owner. Test results must also be provided to the Owner in printed form. Testing equipment used must be certified, using up-to-date industry standards and less than 6 years old.

Test each pair of each cable for opens, shorts, grounds, and pair reversal. Copper cable shall be tested along the full channel from end of patch cable to end of patch cable. Correct grounded and reversed pairs. Examine open and shorted pairs to determine if the problem is caused by improper termination. If termination is proper, tag bad pairs at both ends and note on termination sheets. Results should include: Wire Map, Length, Attenuation, Insertion Loss, Delay, Delay Skew and Return Loss.

### **Cable - Bad Pairs**

If horizontal or vertical cable contains bad conductors or shield, the contractor will remove and replace cable at no additional cost to the owner. If any cable does not perform within specifications because of outer sheath damage, remove and replace cable at no additional cost to the owner. If any bad connectors are discovered, replace at no additional cost to the owner. Where any portion of the system does not meet the specifications, correct any problems and repeat applicable testing at no additional cost to the owner.

### **Cable System Labeling**

The cable labeling system will be designated by room number and cable run. All cables will be labeled according to that process. Racks and patch panels shall be labeled to identify the location within the cable system infrastructure. All labeling information shall be recorded on the as built drawings and all test documents shall reflect the appropriate labeling scheme. All label printing will be machine generated using indelible ink ribbons or cartridges. Self-laminating labels will be used on cable jackets, appropriately sized to the OD of the cable, and placed within view at the termination point on each end. Work Area Outlet (WOA) labels will be machine generated using indelible ink ribbons or cartridges. All cables shall be labeled at both the work area outlet and patch panel. Labels at work area outlets shall be inserted into the faceplate windows.

### **Warranty**

#### INSTALLATION WARRANTY

Contractor must meet or exceed the specifications of the standards organizations including ISO/IEC and ANSI/TIA/EIA for the specified category rating of the channel performance installed. The contractor shall warrant the cabling system against defects in workmanship for a period of one year from the date of system acceptance. The warranty shall cover all labor necessary to correct a failed portion of the system and to demonstrate performance within the original

installation specifications after repairs are accomplished. This warranty shall be provided at no additional cost to the Owner. Warranty must protect against any defects in workmanship after Owner acceptance. Warranty must include and cover both UTP and Fiber and all connectivity for both Backbone and Horizontal distribution. Under the warranty the contractor will cover any problems that occur related to installation with no cost to the Owner.

### **Cable System Acceptance**

The Owner's Technical Representative will make periodic inspections of the project in progress. One inspection will be performed at the conclusion of cable pulling, prior to closing of the false ceiling, to inspect the method of cable routing and support, and the fire stopping of penetrations. A second inspection will be performed at completion of cable termination to validate that cables were dressed and terminated in accordance with TIA/EIA specifications for jacket removal and pair untwist, compliance with manufacturer's minimum bend radius, and that cable ends are dressed neatly and orderly.

### **FINAL INSPECTION**

Upon completion of the project, the Owner's Technical Representative will perform a final inspection of the installed cable system with the Contractor's Project Manager. The final inspection will be performed to validate that all horizontal and backbone cables were installed as defined in the drawing package, and that the installation meets the aesthetic expectations of the Owner.

### **TEST VERIFICATION**

Upon receipt of the test documentation, the Owner reserves the right to perform spot testing of a representative sample of the cabling system to validate test results provided in the test document.

Owner testing will use the same method employed by the contractor, and minor variations will be allowed to account for differences in test equipment. If significant discrepancies are found the Contractor will be notified for resolution.

### **SYSTEM PERFORMANCE**

During the four-week period between final inspection and delivery of the test and as built documentation, the Owner will activate the cabling system. The Owner will validate the operation of the cabling system during this period.

### **FINAL ACCEPTANCE**

Completion of the installation and in-progress and final inspections, receipt of the test and as-built documentation, and successful performance of the system for a two-week period will constitute acceptance of the system.



**VOAG Building  
Internal Connections, Category 2  
Invitation for Competitive Bid**

**Vendor Name:** \_\_\_\_\_

	<b>Cost</b>	
<b>Total Materials Cost</b>		
<b>Total Installation Cost</b>		

Optional: Additional Cost for single cable run		
Optional: Any additional fees		
Comments		
	<b>Total Project Price:</b>	

Authorized Signature: \_\_\_\_\_

Printed Name & Title: \_\_\_\_\_

Phone Number: \_\_\_\_\_

**REFERENCES**

Vendor must complete and submit the required references for similar services you have provided to at least five (5) clients in the past three (3) years. Missouri school district references preferred.

**Reference # 1**

District/Company Name: \_\_\_\_\_

Contact Name/Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Reference # 2**

District/Company Name: \_\_\_\_\_

Contact Name/Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Reference # 3**

District/Company Name: \_\_\_\_\_

Contact Name/Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Reference # 4**

District/Company Name: \_\_\_\_\_

Contact Name/Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Reference # 5**

District/Company Name: \_\_\_\_\_

Contact Name/Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

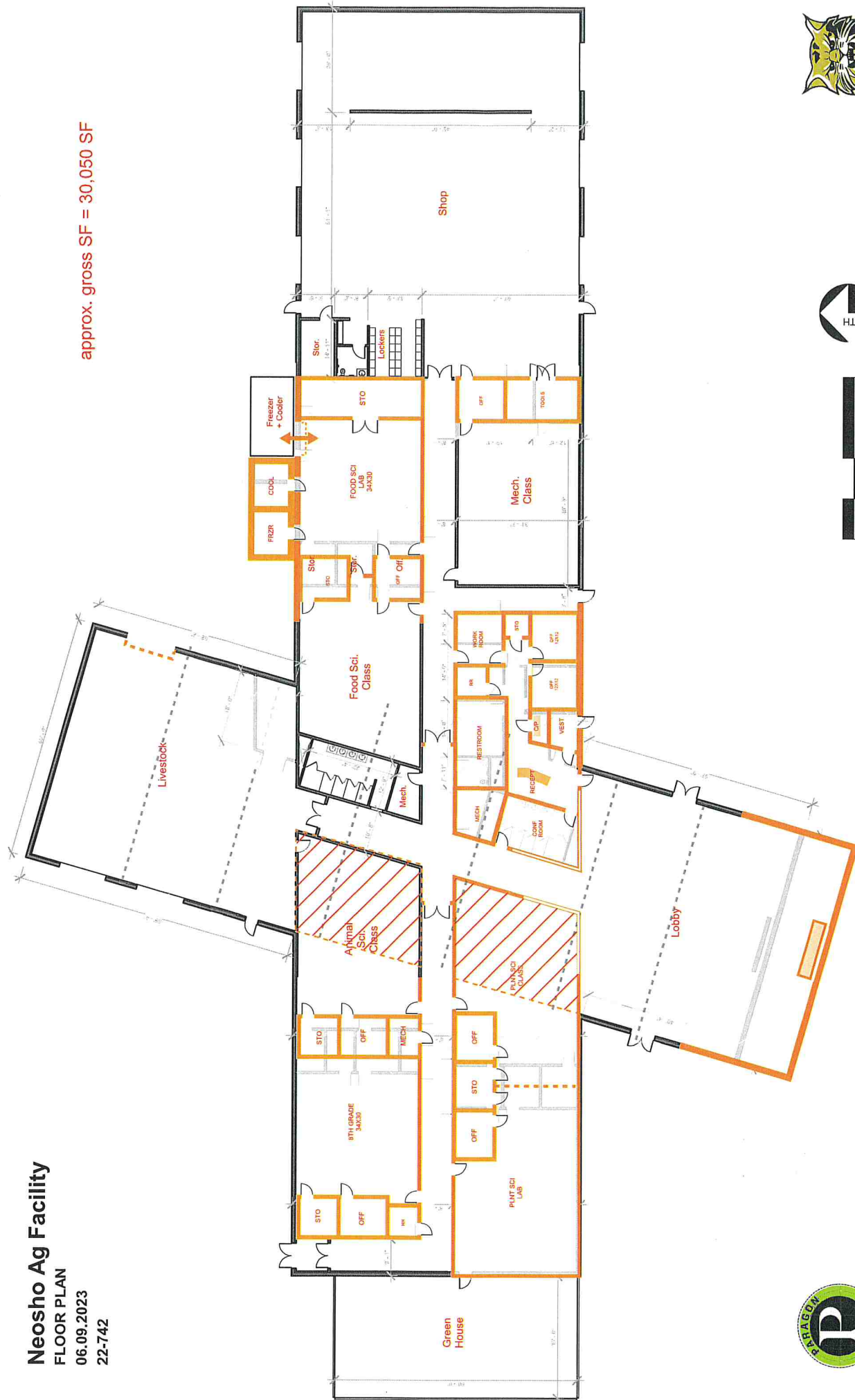
# Neosho Ag Facility

FLOOR PLAN

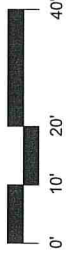
06.09.2023

22-742

approx. gross SF = 30,050 SF



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MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2017019282  
 637 COLLEGE STREET  
 SPRINGFIELD, MO 65806  
 PH: 417.885.0002  
 www.paragonarchitecture.com

**CIVIL ENGINEER**  
 OLSSON  
 550 E ST LOUIS ST  
 SPRINGFIELD, MO 65806  
 417-890-8802

**STRUCTURAL ENGINEER**  
 RTM ENGINEERING CONSULTANTS  
 3045 S KANSAS EXPY  
 SPRINGFIELD, MO 65807  
 417-708-8015

**MEP ENGINEER**  
 RTM ENGINEERING CONSULTANTS  
 3333 E BATTLEFIELD RD SUITE 1000  
 SPRINGFIELD, MO 65804  
 417-881-0500

**CONSTRUCTION MANAGER**  
 CONSTRUCTION SERVICES GROUP  
 12451 MO-69  
 NEOSHO, MO 64850  
 417-451-5743



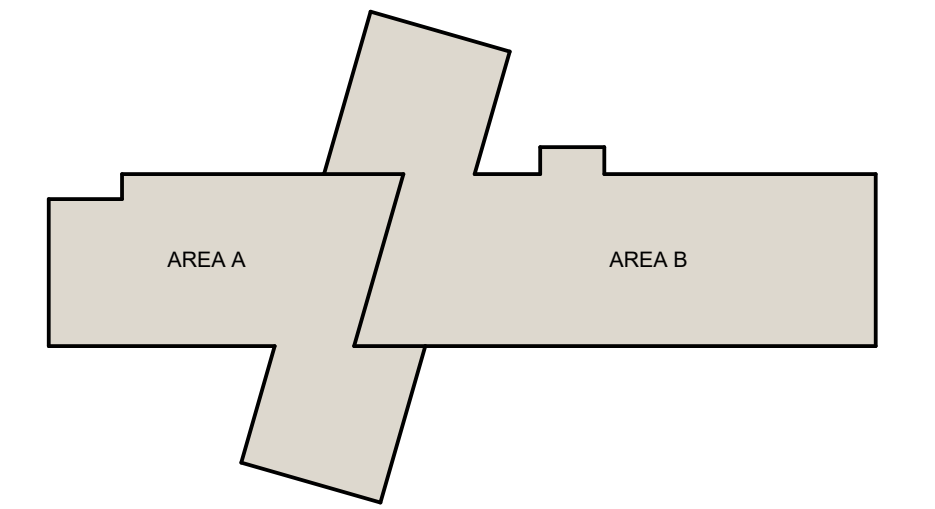
10.25.23  
 JARED A. YOUNGLOVE, ARCHITECT  
 MO #: A-2017019282

REVISION SCHEDULE

KEYNOTE LEGEND

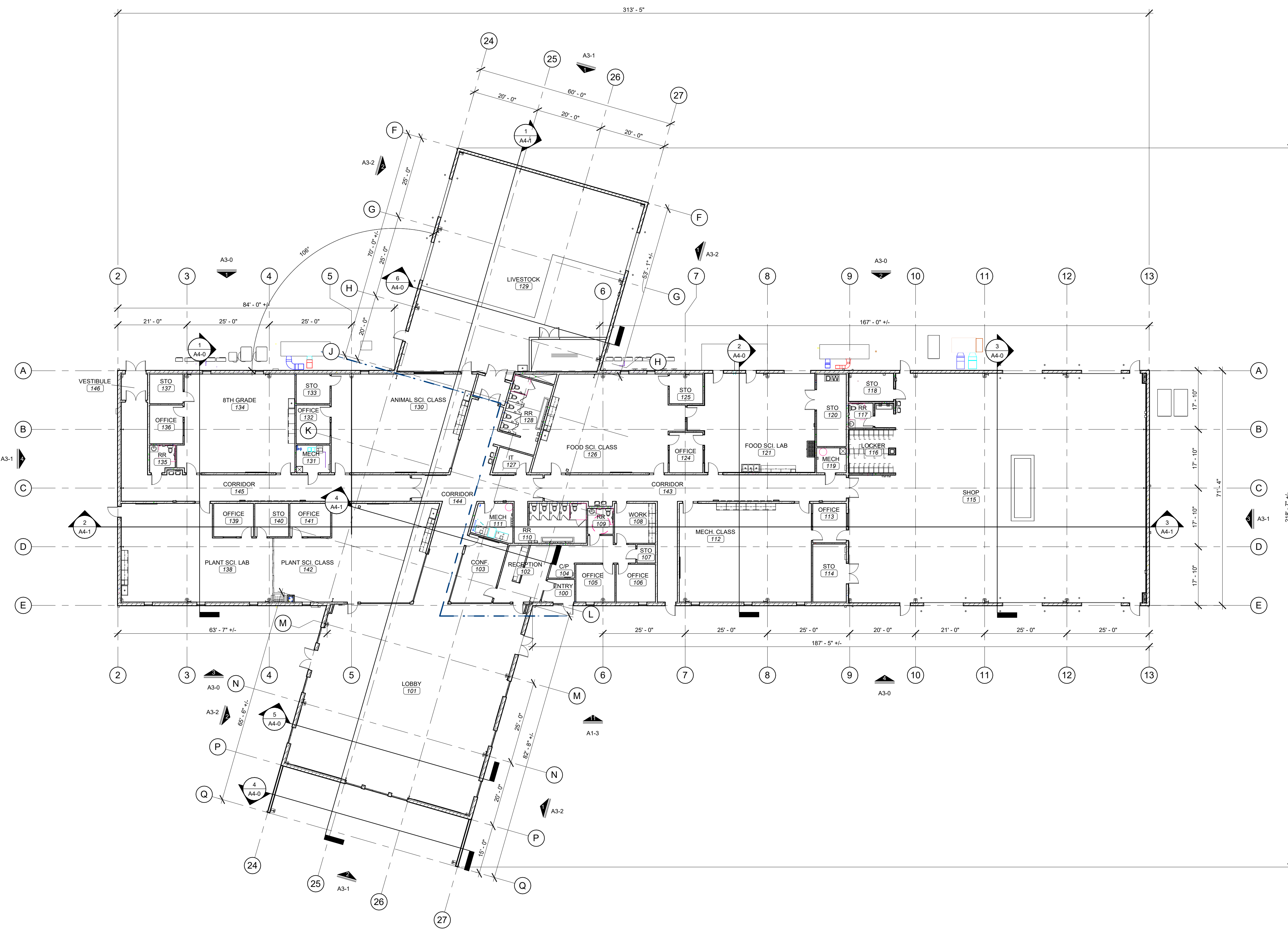
**EXTERIOR WALL SCHEDULE**

MB.00	PRE-ENGINEERED METAL BUILDING METAL WALL PANEL SIDING OVER 8" GIRTS WITH INTERIOR LINER PANELS. GIRTS ENGINEERED BY METAL BUILDING MANUFACTURER. PROVIDE SIMPLE SAVER INSULATION WALL SYSTEM THAT MEETS R-26 MINIMUM. ADD 7/8" HAT CHANNELS AT 16" O.C. WHEN FINISHED WITH EXTERIOR HORIZONTAL METAL PANEL.
MB.01	PRE-ENGINEERED METAL BUILDING METAL WALL PANEL SIDING OVER 8" GIRTS WITH INTERIOR LINER PANELS. GIRTS ENGINEERED BY METAL BUILDING MANUFACTURER. PROVIDE SIMPLE SAVER INSULATION WALL SYSTEM THAT MEETS R-26 MINIMUM. 3-5/8" INTERIOR STUD WALL WITH GYPSUM FINISH. ADD 7/8" HAT CHANNELS AT 16" O.C. WHEN FINISHED WITH EXTERIOR HORIZONTAL METAL PANEL.
MB.02	PRE-ENGINEERED METAL BUILDING METAL WALL PANEL SIDING OVER 8" GIRTS. GIRTS ENGINEERED BY METAL BUILDING MANUFACTURER. PROVIDE SIMPLE SAVER INSULATION WALL SYSTEM THAT MEETS R-26 MINIMUM. ADD 7/8" HAT CHANNELS AT 16" O.C. WHEN FINISHED WITH EXTERIOR HORIZONTAL METAL PANEL.
MB.03	PERFORATED METAL PANEL SCREENING
MB.20	PRE-ENGINEERED METAL BUILDING METAL WALL PANEL SIDING OVER 8" GIRTS WITH INTERIOR LINER PANEL OVER (3) LAYERS OF GYPSUM ON 7/8" FURRING CHANNEL. GIRTS ENGINEERED BY METAL BUILDING MANUFACTURER. PROVIDE SIMPLE SAVER INSULATION WALL SYSTEM THAT MEETS R-26 MINIMUM. ADD 7/8" HAT CHANNELS AT 16" O.C. WHEN FINISHED WITH EXTERIOR HORIZONTAL METAL PANEL. WALL TO HAVE A 2-HR FIRE RESISTANCE RATING.



FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. DIMENSIONS OF EXISTING STRUCTURE ARE NOTED "+", AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES IN WRITING.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK. CONTRACTOR TO PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING.
- PROVIDE SOLID WOOD BLOCKING AS REQUIRED TO INSTALL EQUIPMENT AND CASEWORK. VERIFY WITH OWNER FOR ALL ADDITIONAL OWNER-FURNISHED ITEMS THAT REQUIRE BLOCKING.
- BUILDING IS TO BE STAKED OUT ON SITE BY A REGISTERED LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION TO VERIFY THAT NO CONFLICTS EXIST BETWEEN PROPOSED CONSTRUCTION AND PROPERTY SETBACKS, EASEMENTS, EXISTING STRUCTURES, OR OTHER PHYSICAL OBJECTS ON SITE. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY CONFLICTS OR VARIATIONS FROM PLANS.
- INTERIOR DOORS TO BE LOCATED 5' AWAY FROM ADJACENT CORNERS, UNLESS NOTED OTHERWISE.
- SEE STRUCTURAL DRAWINGS FOR ALL HEADER, BOND BEAM, LINTEL, COLUMN, AND OTHER STRUCTURAL REQUIREMENTS.
- SEE CODE COMPLIANCE PLAN FOR FIRE EXTINGUISHER AND SIGNAGE REQUIREMENTS AND LOCATIONS.
- FINISH FLOOR ELEVATION INDICATED ON ARCHITECTURAL DRAWINGS IS AT ELEVATION 100'-0". SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.



**1 OVERALL FLOOR PLAN**  
 SCALE 1/16" = 1'-0"

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS SILENT, USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT, WHICH SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.0% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

PROJECT DESCRIPTION  
**NEOSHO AGRICULTURAL FACILITY**  
 14646 KODIAK RD., NEOSHO, MO. 64850

PROJECT ARCHITECT: JAY  
 DRAWN BY: TD, KS, KW  
 CHECKED BY: KW, JS, JY

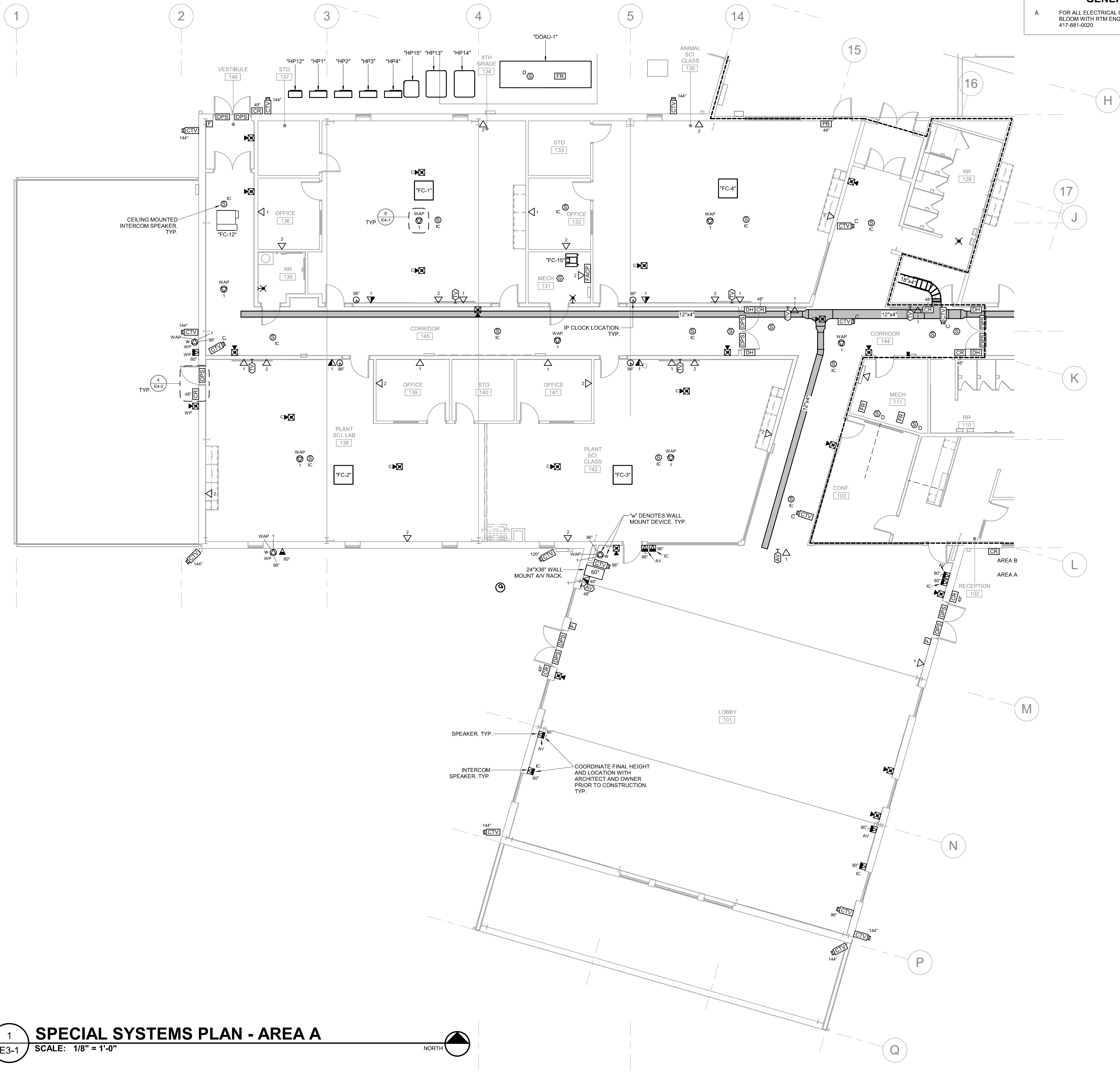
PROJECT NUMBER:  
**22-742**

DATE:  
 2023-10-25

**OVERALL FLOOR PLAN**

SHEET NUMBER:  
**A1-0**

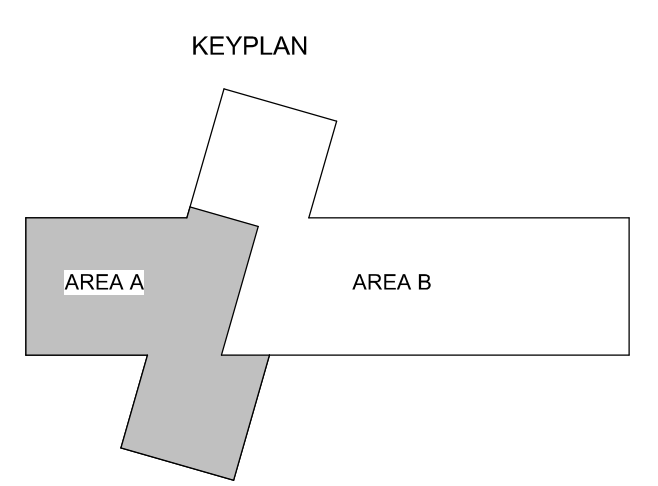




**GENERAL NOTES:**  
 A. FOR ALL ELECTRICAL QUESTIONS CONTACT DEREK BLOOM WITH RTM ENGINEERING CONSULTANTS. 417-881-0020.

**PLAN HEX NOTES:**

**1 SPECIAL SYSTEMS PLAN - AREA A**  
 E3-1 SCALE: 1/8" = 1'-0"  
 NORTH

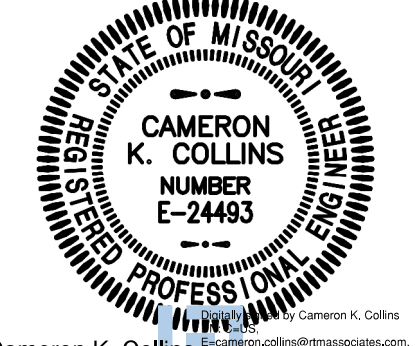


MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-20880415  
 637 COLLEGE STREET  
 SPRINGFIELD, MO 65806  
 PH: 417.885.0002  
 www.paragonarchitecture.com



3333 E. Battlefield Rd | Suite 1000  
 Springfield, MO 65804  
 417.881.0020 | www.rtmec.com  
 STATE OF MISSOURI  
 CERTIFICATE OF AUTHORITY:  
 #201405828  
 FOR ENGINEERING

CAMERON K. COLLINS  
 024493



Cameron K. Collins  
 COP - VALIDITY - 2025  
 THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE. ANY USE SHALL BE STRICTLY FOR THE PROJECT REFERENCED BELOW.

REVISION SCHEDULE

PROJECT DESCRIPTION:  
**Neosho Agricultural Facility**  
 14846 KODIAK RD., NEOSHO, MO, 64850

PROJECT ENGINEER: Approver  
 DRAWN BY: DJMB  
 CHECKED BY: JAL

PROJECT NUMBER:  
 22-742

DATE:  
 2023-10-25

**SPECIAL SYSTEMS PLAN - AREA A**

SHEET NUMBER:

**E3-1**

10/25/2023 11:28:57 AM  
 Altimetor Doc: 22-742 Neosho  
 A:\M\A\B\E3-1.rvt

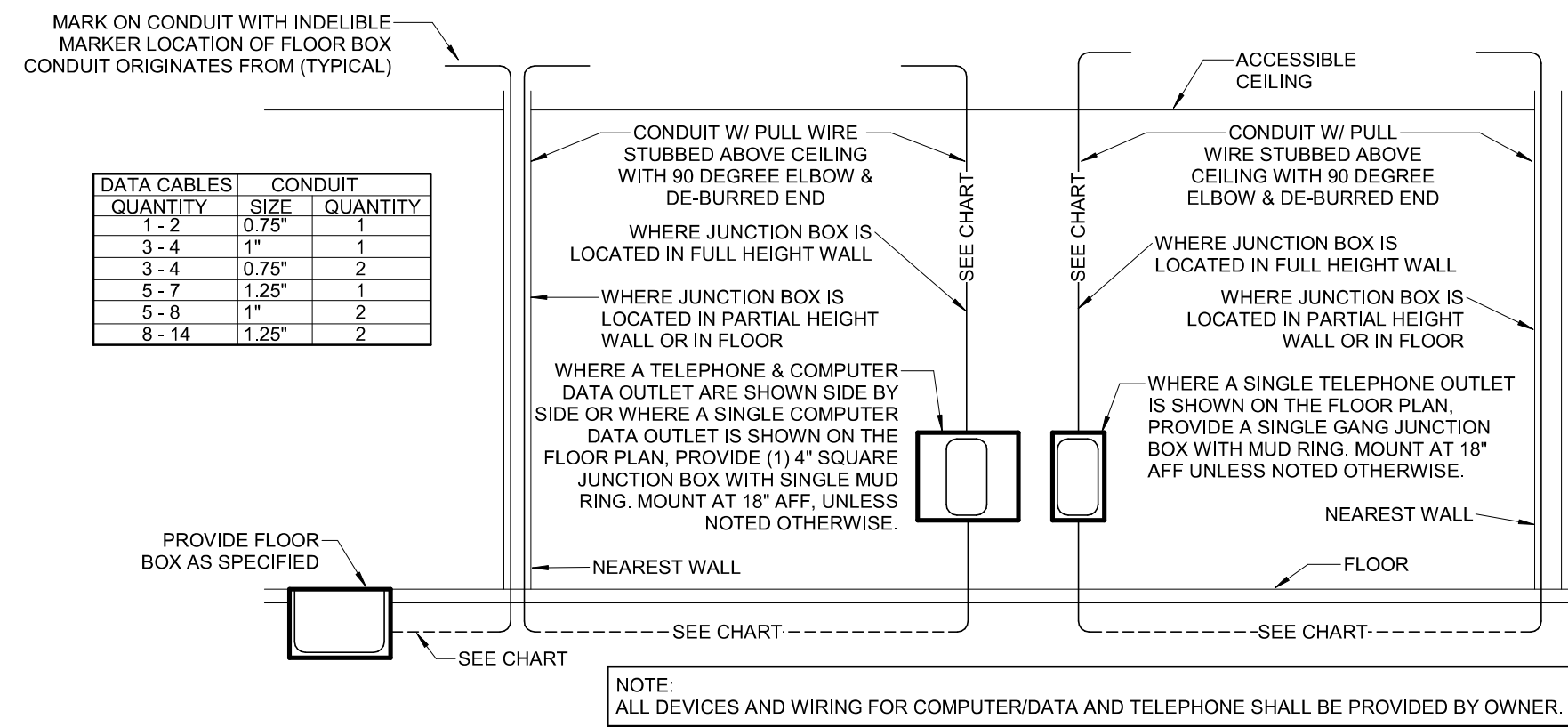
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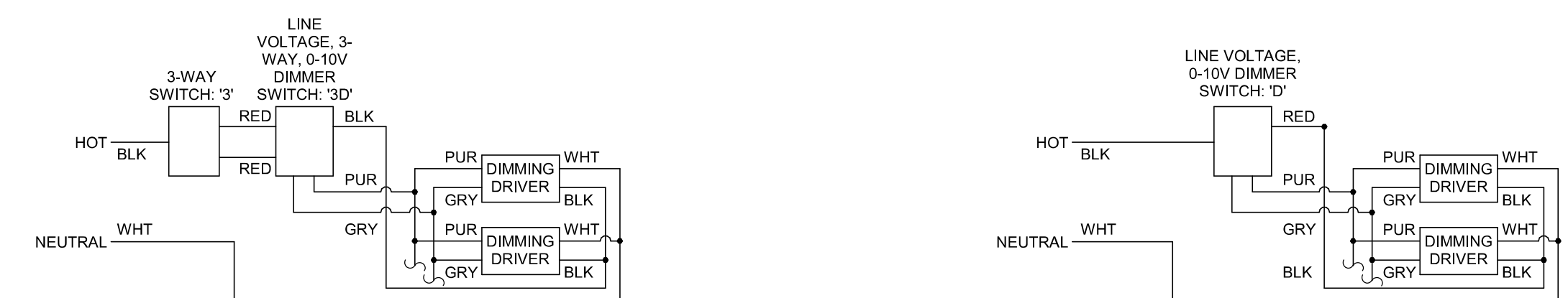


**GENERAL NOTES:**

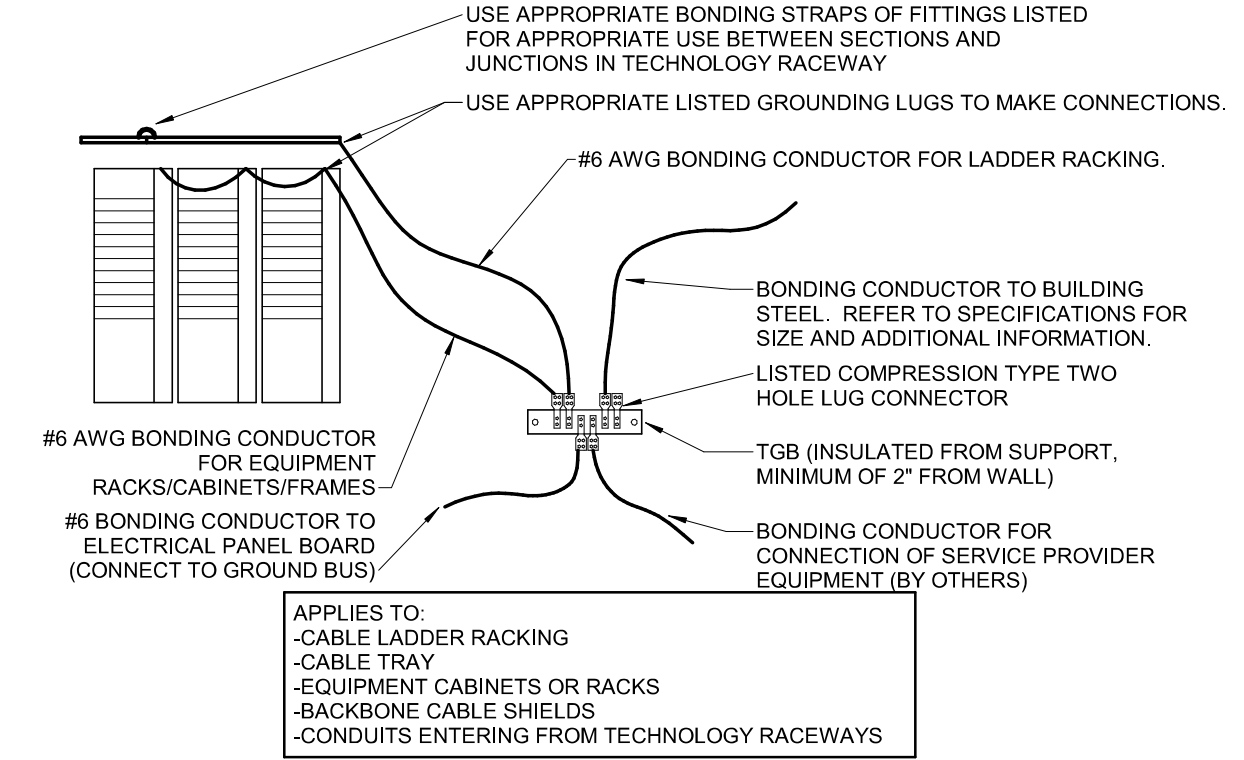
A. FOR ALL ELECTRICAL QUESTIONS CONTACT DEREK BLOOM WITH RTM ENGINEERING CONSULTANTS. 417-881-0020.



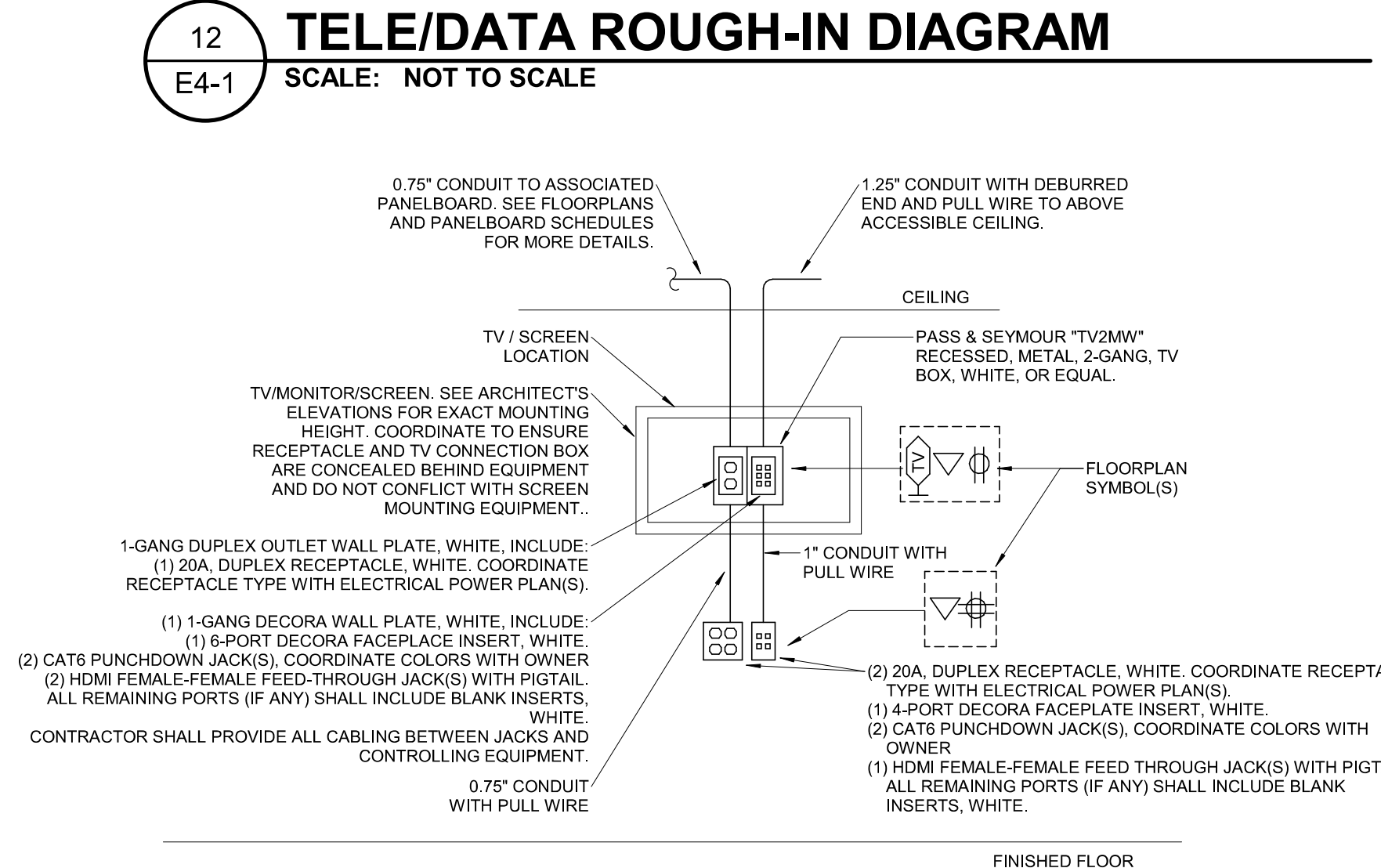
**12 TELE/DATA ROUGH-IN DIAGRAM**  
E4-1 SCALE: NOT TO SCALE



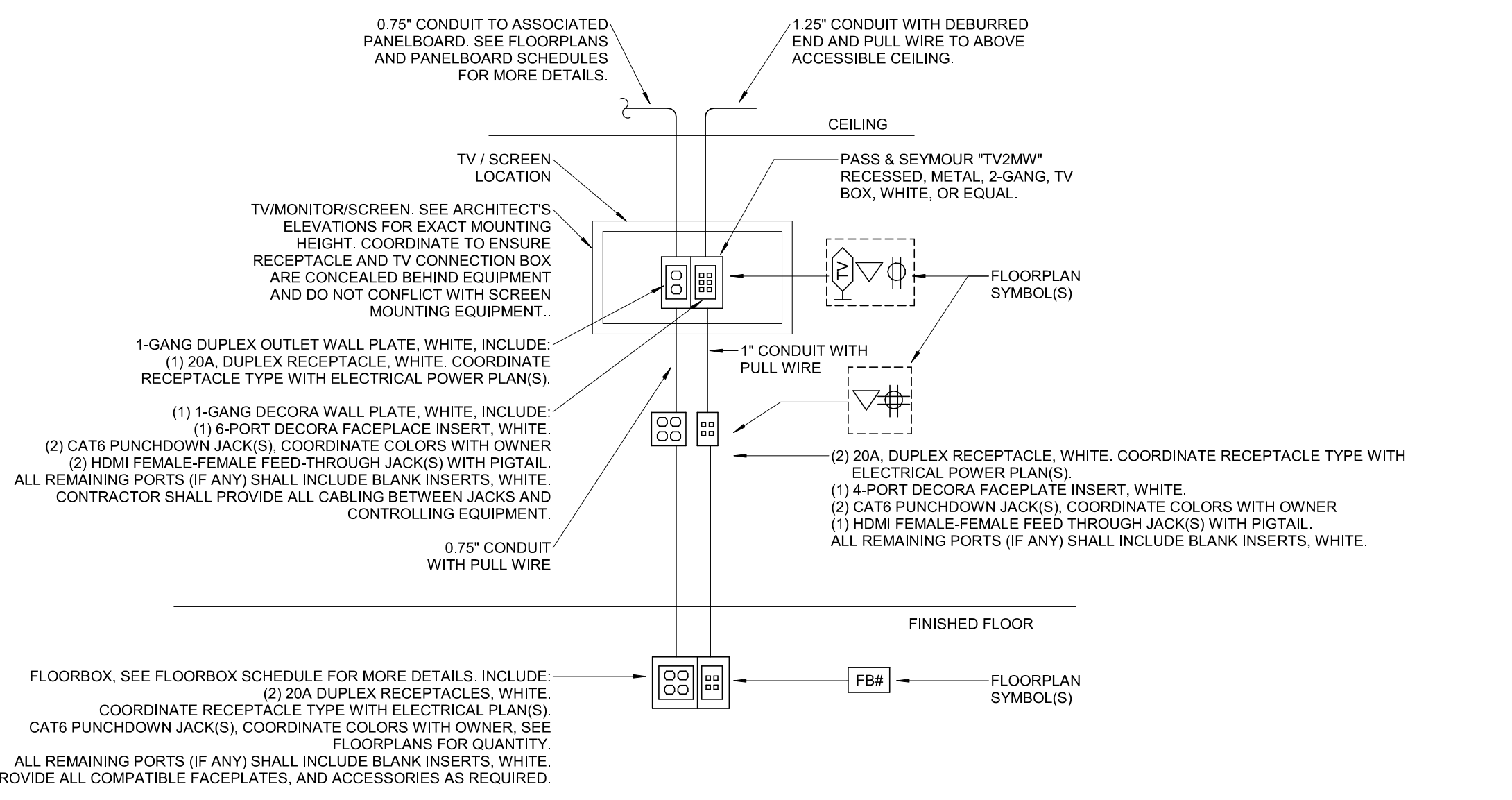
**8 3-WAY DIMMER WIRING DIAGRAM** E4-1 SCALE: NOT TO SCALE  
**7 1-POLE DIMMER WIRING DIAGRAM** E4-1 SCALE: NOT TO SCALE



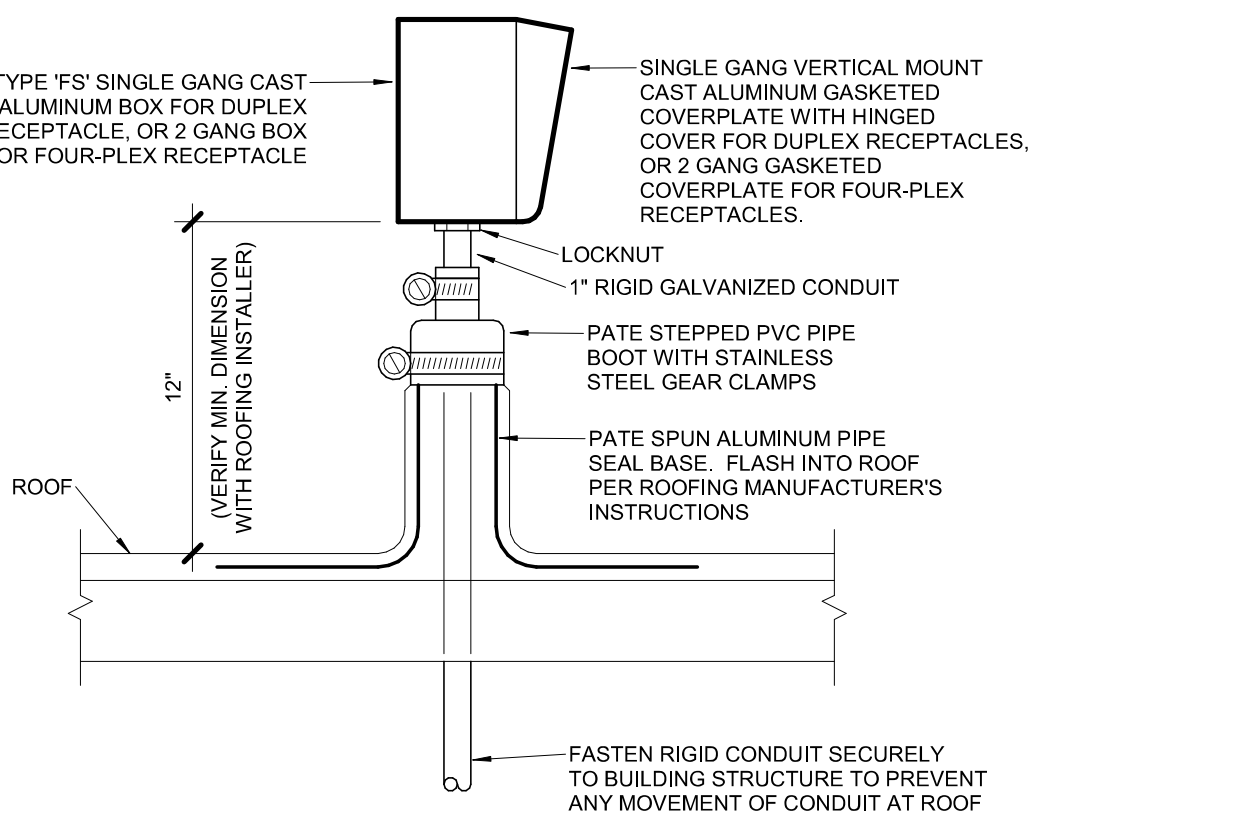
**4 TYPICAL TERMINAL GROUNDING BUS CONNECTIONS DIAGRAM**  
E4-1 SCALE: NOT TO SCALE



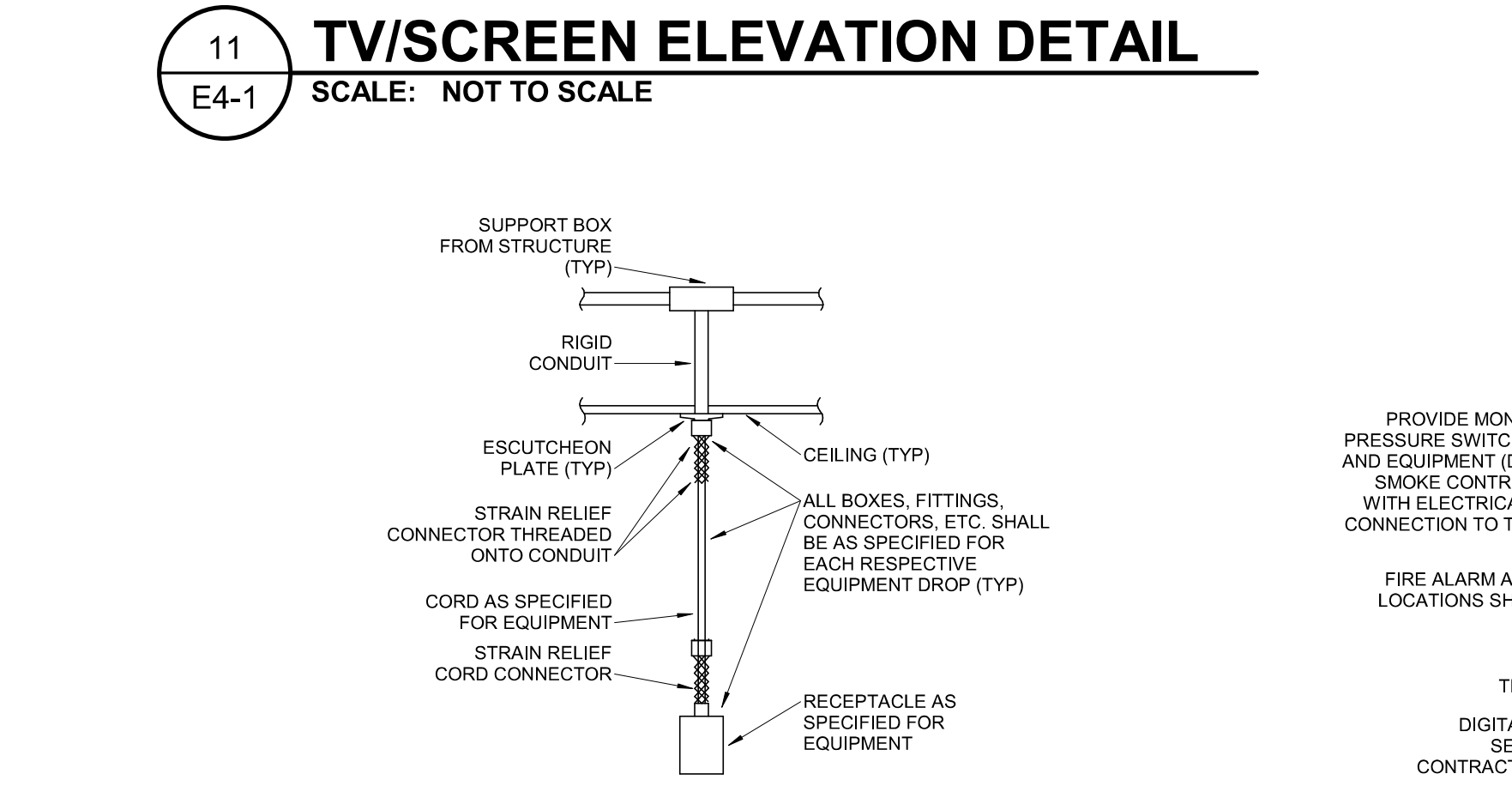
**11 TV/SCREEN ELEVATION DETAIL**  
E4-1 SCALE: NOT TO SCALE



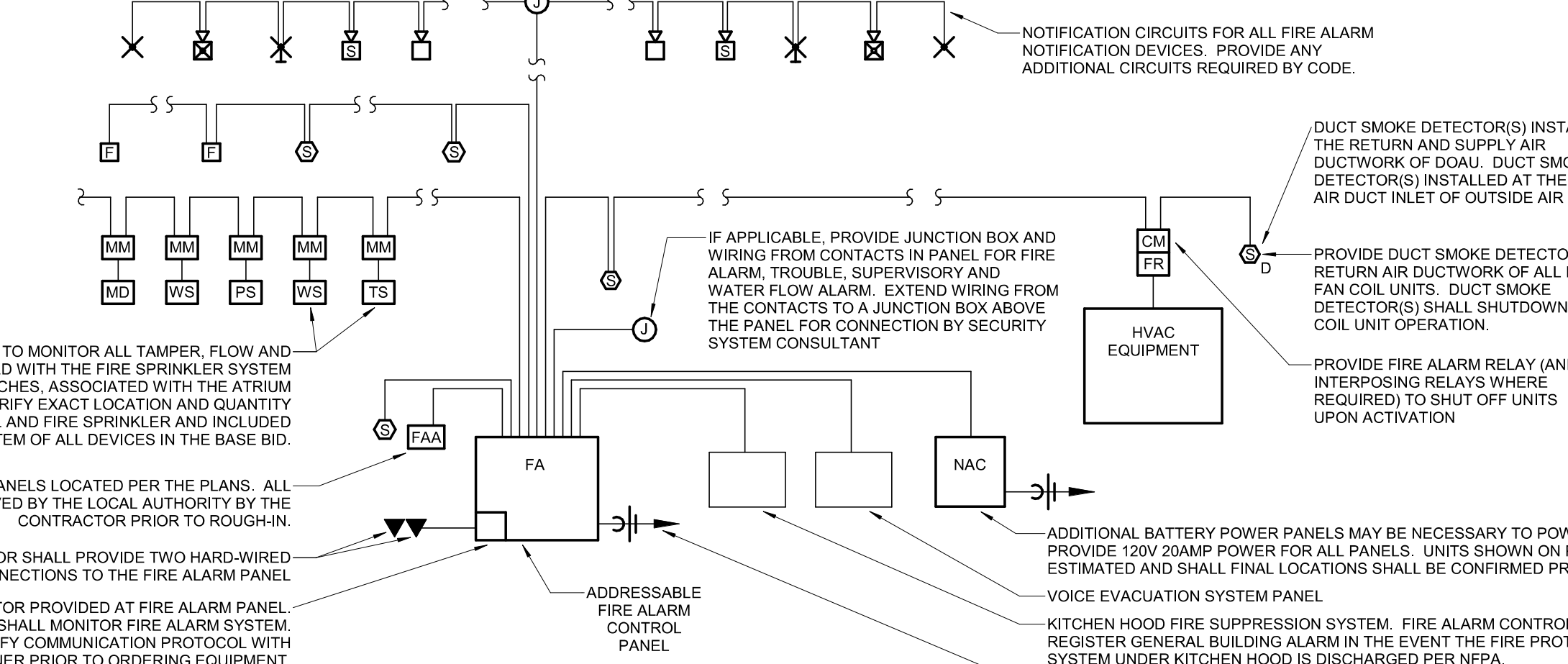
**6 MEETING ROOM TV ELEVATION**  
E4-1 SCALE: NOT TO SCALE



**3 ROOF RECEPTACLE MOUNTING DETAIL**  
E4-1 SCALE: NOT TO SCALE



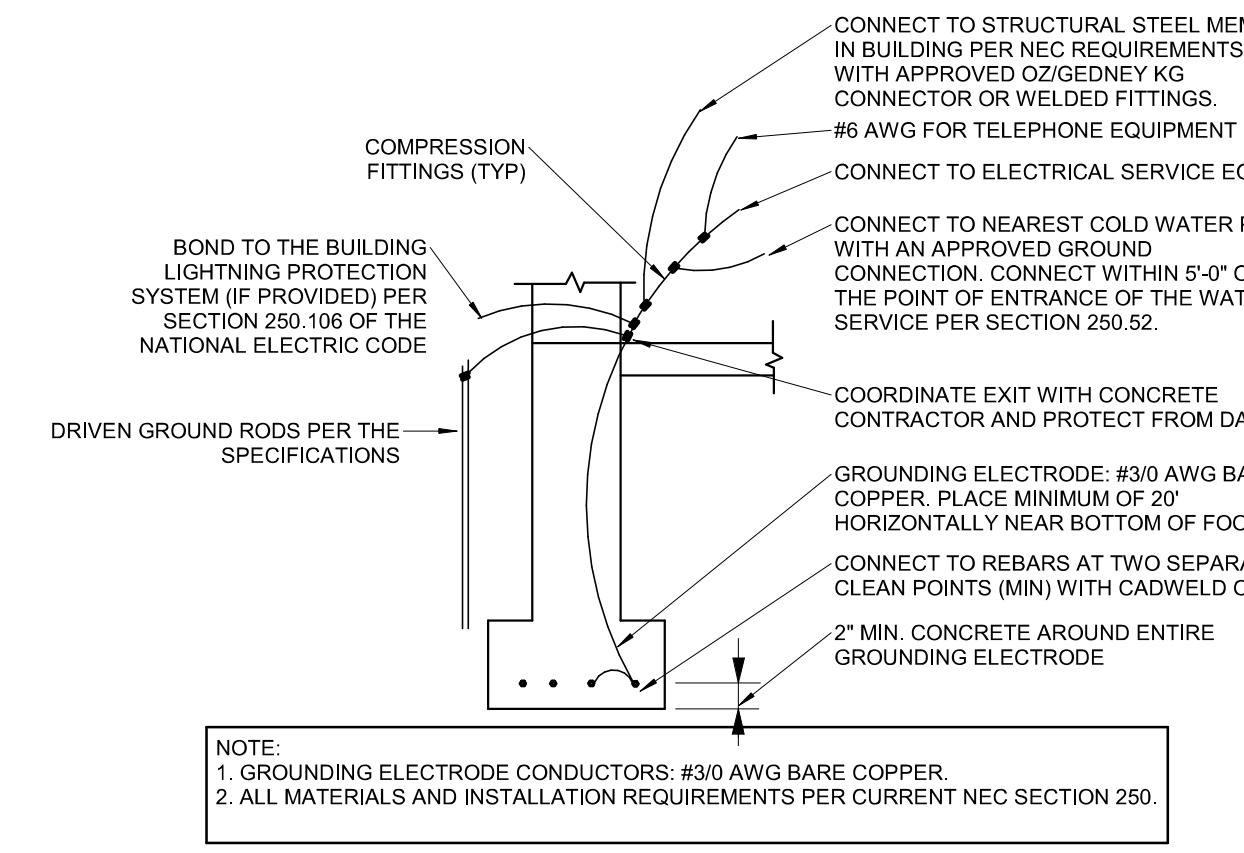
**10 POWER DROP DETAIL**  
E4-1 SCALE: NOT TO SCALE



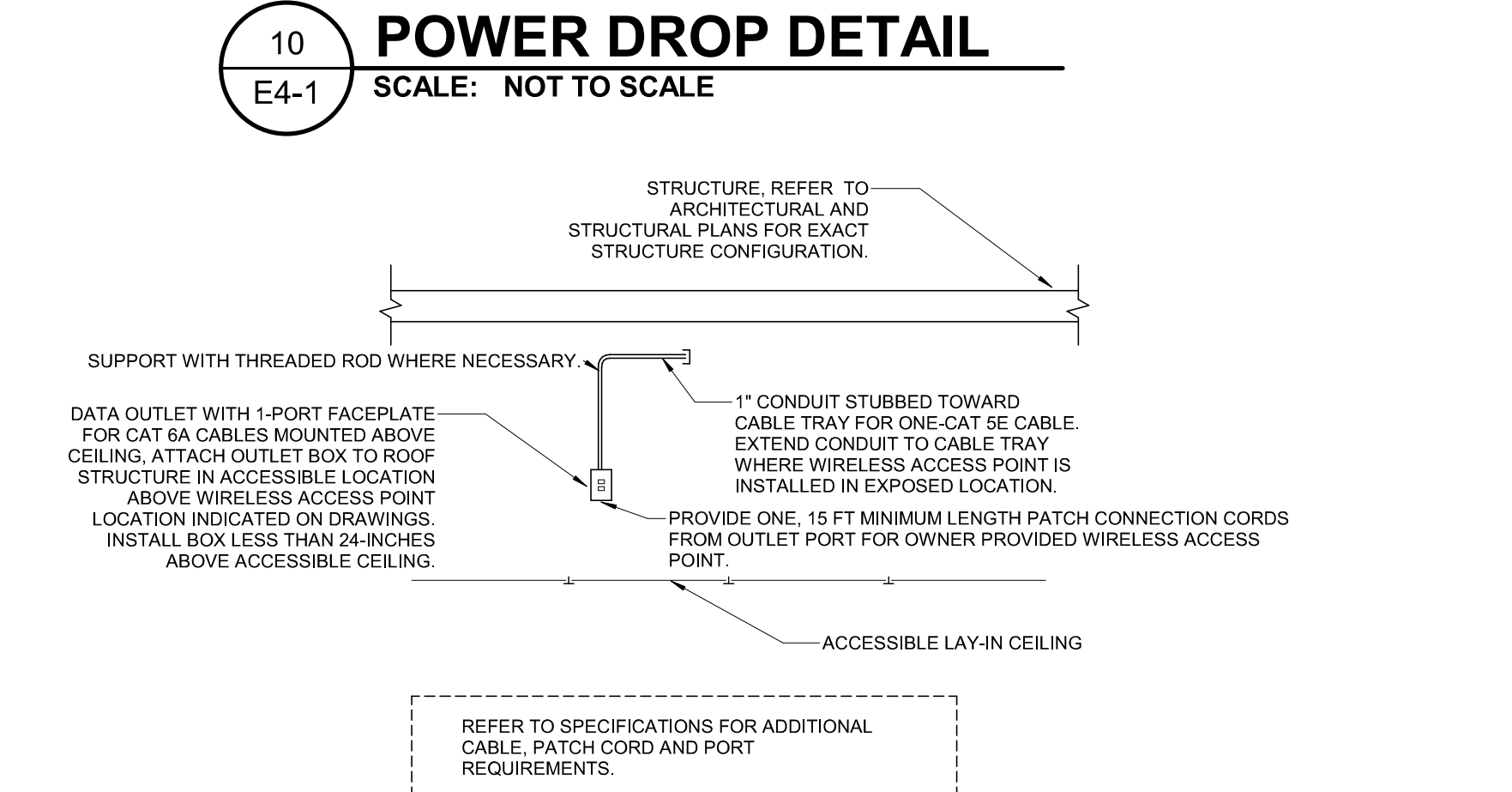
ACTIVATED DEVICE	LOCATION	ACTION
SMOKE DETECTOR	HVAC EQUIPMENT DUCT AT RETURN OR SUPPLY AIR OPENING	ASSOCIATED HVAC EQUIPMENT SHUTDOWN VIA FIRE ALARM RELAY CONTACT CENTRAL MONITORING FACILITY - ALARM
SMOKE DETECTOR	GENERAL	GENERAL BUILDING ALARM CLOSE FIRE/SMOKE DAMPERS (WHERE DAMPERS ARE SHOWN ON THE PLAN) ALL HVAC EQUIPMENT SHUTDOWN VIA FIRE ALARM RELAY RELEASE FIRE DOOR MAGNETIC HOLD-OPENS CONTACT CENTRAL MONITORING FACILITY - ALARM
MANUAL PULL STATION	ALL LOCATIONS	GENERAL BUILDING ALARM CLOSE FIRE/SMOKE DAMPERS (WHERE DAMPERS ARE SHOWN ON PLAN) CONTACT CENTRAL MONITORING FACILITY - ALARM
SPRINKLER WATER FLOW SWITCH	ALL LOCATIONS	GENERAL BUILDING ALARM CLOSE FIRE/SMOKE DAMPERS (WHERE DAMPERS ARE SHOWN ON PLAN) CONTACT CENTRAL MONITORING FACILITY - ALARM
VALVE TAMPER SWITCH	ALL LOCATIONS	AUDIBLE & VISUAL ALARM AT FIRE ALARM PANELS SUPERVISORY ALARM CONTACT CENTRAL MONITORING FACILITY - SUPERVISORY ALARM
SUMP PUMP HIGH WATER ALARM	SUMP PUMPS	AUDIBLE & VISUAL ALARM AT FIRE ALARM PANELS SUPERVISORY ALARM CONTACT CENTRAL MONITORING FACILITY - SUPERVISORY ALARM
FIRE SUPPRESSION SYSTEM	ALL KITCHEN EXHAUST HOODS & IT SERVER SUPPRESSION SYSTEM	GENERAL BUILDING ALARM CLOSE FIRE/SMOKE DAMPERS (WHERE DAMPERS ARE SHOWN ON PLAN) CONTACT CENTRAL MONITORING FACILITY - ALARM

NOTE: SEQUENCE OF OPERATION IS SUBJECT TO APPROVAL BY LOCAL FIRE MARSHAL AND CODE OFFICIAL

**5 FIRE ALARM SYSTEM SCHEMATIC RISER AND SEQUENCE**  
E4-1 SCALE: NOT TO SCALE

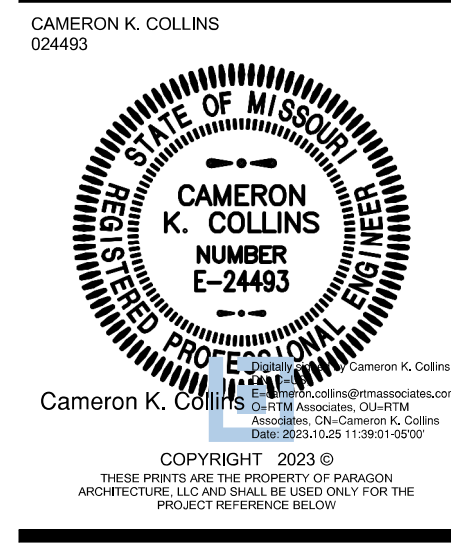


**2 GROUNDING ELECTRODE DETAIL**  
E4-1 SCALE: NOT TO SCALE



**9 E-SS-WIRELESS ACCESS POINT DETAIL**  
E4-1 SCALE: NOT TO SCALE

**1 UNDERGROUND UTILITY ELECTRICAL CONDUITS**  
E4-1 SCALE: NOT TO SCALE



REVISION SCHEDULE

**Neosho Agricultural Facility**  
PROJECT DESCRIPTION:  
14846 KODIAK RD., NEOSHO, MO, 64850

PROJECT ENGINEER: Approver  
DRAWN BY: DJMB  
CHECKED BY: JAL

PROJECT NUMBER: 22-742

DATE: 2023-10-25

**ELECTRICAL DETAILS**

SHEET NUMBER:

**E4-1**