

DOCUMENT 009113 – ADDENDUM #1

1.1 PROJECT INFORMATION

- A. Project Name: Infrastructure Upgrades
- B. Owner: St. Joseph Public Schools
- C. Designer: AE Tech Design
- D. Designer Project Number: SJPS2304-0300
- E. Date of Addendum: 1/16/2024

1.2 NOTICE TO BIDDERS

- A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. All drawing changes incorporated via addenda are bubbled with a revision cloud and denoted by a diamond containing the addendums number.
- D. The date for receipt of bids is unchanged by this Addendum.

1.3 QUESTION AND ANSWERS

- A. Q1: Where are structured cabling locations shown on the drawings?
  - 1. A: Inner-Building backbone connections that are being replaced are shown on page T306, and the closet locations can be seen on the floor plans on the T100 series. Rack Elevations on pages T302-T305 shows the structured cabling scope within each closet.
- B. Q2: Is there any new Cat6E with this project?
  - 1. A: There is new Cat6 patch panels and jacks in some of the technology closets, but the scope does not currently include running new premise cabling. All copper premise cabling is to be reused and will be replaced later under a separate project. We are however asking for a unit-price per new Cat6 drop to cover the need for individual drops to be replaced should it arise.
- C. Q3: Who is responsible of removal and reinstallation of equipment?
  - 1. A: Structured Cabling contractor is responsible for removal of structured cabling equipment (patch panels, racks, fiber trays, etc.), Network Electronics contractor is responsible for removal of all network electronics (switches, routers, UPSes, etc.).
- D. Q4: Is there any asbuilt drawings available?

1. A: Historical project documentation and asbuilt drawings that currently exist will be made available to the awarded contractor.
- E. Q5: Is the contractor responsible for disposal?
  1. A: Yes, the owner and contractor will agree on a centralized staging location(s) for the owner to first salvage any equipment, before the contractor fully removes demolished equipment from the site.
- F. Q6: Should we provide dual power supplies for the network switches?
  1. A: Yes.
- G. Q7: Should fiber patch cables be provided by the network electronics contractor or the structured cabling contractor?
  1. A: Structured cabling contractor.
- H. Q8: Should copper patch cables be provided?
  1. A: Yes, the patch cord legend on sheet TG02 has been updated.

#### 1.4 ATTACHMENTS

- A. This Addendum contains the attached Specification Sections:
  1. Section 004123 Bidform – Dated 1/16/2024 (Reissued)
    - a. Updated unit prices and alternates.
- B. This Addendum includes the attached Addendum Drawings:
  1. Drawing TG02 “Technology General Information” – Dated 01/16/2024 (Reissued)
    - a. “Patch Cord Legend” updated to show quantity, length, and details.
    - b. “Work Scope Legend” updated.
  2. Drawing T106B “Saint Joseph HS Main Floor Technology Plan – Unit F & G” – Dated 01/16/2024 (Reissued)
    - a. “Saint Joseph HS Mech. Mezzanine Technology Plan – Unit F” view added to sheet.
  3. Drawing T302 “Tech Rack Elevations” – Dated 01/16/2024 (Reissued)
    - a. Keyed note #2 was updated in “Tech Closet Keyed Notes.”
    - b. New Meraki switch models were updated to show PoE capability.
    - c. Keyed note #2 was added to racks with UPS that are to be rack mounted.
  4. Drawing T303 “Tech Rack Elevations” – Dated 01/16/2024 (Reissued)
    - a. Keyed note #2 was updated in “Tech Closet Keyed Notes.”
    - b. New Meraki switch models were updated to show PoE capability.
    - c. Keyed note #2 was added to racks with UPS that are to be rack mounted.
    - d. Upton MS TC-D rack elevation was updated to accurately show the new rack size and give mounting details.
  5. Drawing T304 “Tech Rack Elevations” – Dated 01/16/2024 (Reissued)
    - a. Keyed note #2 was updated in “Tech Closet Keyed Notes.”
    - b. New Meraki switch models were updated to show PoE capability.
    - c. Keyed note #2 was added to racks with UPS that are to be rack mounted.

- d. UPS were removed from HS racks that are being served by the central floor-standing unit in the MDF.
  - e. SJHS TC-I rack elevation was updated to accurately show the new rack size and give mounting details.
6. Drawing T305 "Tech Rack Elevations" – Dated 01/16/2024 (Reissued)
    - a. Keyed note #2 was updated in "Tech Closet Keyed Notes."
    - b. New Meraki switch models were updated to show PoE capability.
    - c. Keyed note #2 was added to racks with UPS that are to be rack mounted.
    - d. SJHS TC-CA rack elevation and details were added.
  7. Drawing T306 "Structured Cabling Details & Risers" – Dated 01/16/2024 (Reissued)
    - a. Fiber connection to TC-CA was added in the "SJHS Inner-Building Backbone Cabling Riser."
  8. Drawing T308 "Network Diagram" – Dated 01/16/2024 (Reissued)
    - a. New Cisco Catalyst core switch models were updated.
    - b. New Meraki switch models were updated to show PoE capability.
    - c. 'General Network Notes' No. 1 was updated to show different licenses for the core switches.

END OF DOCUMENT 009113

DOCUMENT 004123 – BID FORM

1.1 SUMMARY

- A. This section includes the forms to be used by bidders for the purposes of bidding the project
- B. Intent to Bid
- C. Bid Including:
  - 1. Vendor Profile
  - 2. Familial Relationship Disclosure
  - 3. Iran Sanctions Act Affidavit of Compliance
  - 4. Technology References
  - 5. Bid Bond Form (AIA Document A310) or bid security

1.2 INTENT TO BID

- A. Submit form to Evan Cain, AE Tech Design, [ecain@aetech.design](mailto:ecain@aetech.design)
- B. Project Name: Infrastructure Upgrades
- C. Company Name: \_\_\_\_\_
- D. Company Street Address: \_\_\_\_\_
- E. Company City, State and zip code: \_\_\_\_\_
- F. Contact Name: \_\_\_\_\_
- G. Email Address: \_\_\_\_\_
- H. Phone: \_\_\_\_\_

1.3 VENDOR PROFILE

- A. Company Name: \_\_\_\_\_
- B. Company Street Address: \_\_\_\_\_
- C. Company City, State and zip code: \_\_\_\_\_
- D. Contact Name: \_\_\_\_\_
- E. Email Address: \_\_\_\_\_
- F. Phone: \_\_\_\_\_
- G. Fax: \_\_\_\_\_
- H. Date Founded: \_\_\_\_\_ Number of employees: \_\_\_\_\_
- I. Total revenue last fiscal year: \_\_\_\_\_
- J. Type of Organization (Corporation, Partnership, LLC, etc.): \_\_\_\_\_
- K. Has organization ever had a contract terminated prior to completion: \_\_\_\_\_
- L. Has organization ever failed to complete a project: \_\_\_\_\_
- M. Has organization ever filed for bankruptcy, reorganization, or receivership: \_\_\_\_\_
- N. Number of full-time technicians qualified to perform work on this project: \_\_\_\_\_
- O. Has organization ever been involved in a lawsuit with Owners, Engineers or other contractors within the last five years: \_\_\_\_\_

1.4 FAMILIAL DISCLOSURE FORM

A. All proposals shall be accompanied by a notarized statement disclosing any familial relationship (or lack of a relationship) that exists between the Owner or any employee of the bidder and any member of the Board of Education of St. Joseph Public Schools or the Superintendent of the School District. The district shall not accept a bid that does not include a sworn and notarized disclosure statement.

1. St. Joseph Public Schools  
Attn: Jenny Fee  
2580 S. Cleveland Avenue  
St. Joseph, MI 49085

B. Dear Ladies and Gentlemen: I/We the undersigned acknowledge the details stated in "Statement of Disclosure", regarding familial relationship (or lack of) that exists between the Owner or any employee of the bidder and any member of St. Joseph Public Schools Board of Education or the Superintendent of the School District.

C. We have prior familial knowledge of parties involved. (Attach clarification.)

D. We have no prior familial knowledge of parties involved.

E. Signature \_\_\_\_\_

F. Company Name \_\_\_\_\_

G. Notary Public \_\_\_\_\_

H. \_\_\_\_\_ County, State \_\_\_\_\_

I. My commission Expires: \_\_\_\_\_

1.5 IRAN ECONOMIC SANCTIONS ACT AFFIDAVIT OF COMPLIANCE - MICHIGAN PUBLIC ACT NO. 517 OF 2012

- A. The undersigned, the owner or authorized officer of the below-named contractor (the "Contractor"), pursuant to the compliance certification requirement provided in the St. Joseph Public Schools (the "School District") RFP for Infrastructure Upgrades (the "RFP"), hereby certifies, represents and warrants that the Contractor (including its officers, directors and employees) is not an "Iran linked business" within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the "Act"), and that in the event Contractor is awarded a contract as a result of the aforementioned RFP, the Contractor will not become an "Iran linked business" at any time during the course of performing any services under the contract.
- B. The Act defines an Iran Linked Business as an individual or any entity, including all successors, parent companies, subsidiaries and companies under common control, engaged in investment activities of \$20,000,000.00 or more with the energy sector of Iran, including providing products used to construct or maintain oil or liquefied natural gas pipelines.
- C. The Contractor further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 (or 2 times the amount of the contract, or proposed contract, for which the false certification was made), whichever is greater. Additionally, the cost of the School District's investigation, and reasonable attorney fees, will be added to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a Request for Proposal for three (3) years from the date it is determined that the person has submitted the false certification.
- D. The District shall not accept a bid that does not include a sworn and notarized Affidavit of Compliance.
- E. Signature\_\_\_\_\_
- F. Company Name\_\_\_\_\_
- G. Notary Public\_\_\_\_\_
- H. \_\_\_\_\_ County, State\_\_\_\_\_
- I. My commission Expires:\_\_\_\_\_



1.6 TECHNOLOGY VENDOR REFERENCES

A. Include at least three references for similar K-12 projects in West Michigan.

1. Customer Name: \_\_\_\_\_  
2. Address: \_\_\_\_\_  
3. Contact Name: \_\_\_\_\_  
4. Contact Title: \_\_\_\_\_  
5. Phone: \_\_\_\_\_  
6. E-Mail Address: \_\_\_\_\_  
7. Date Started & Completed: \_\_\_\_\_  
8. Dollar Amount of Project: \_\_\_\_\_  
9. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Customer Name: \_\_\_\_\_  
11. Address: \_\_\_\_\_  
12. Contact Name: \_\_\_\_\_  
13. Contact Title: \_\_\_\_\_  
14. Phone: \_\_\_\_\_  
15. E-Mail Address: \_\_\_\_\_  
16. Date Started & Completed: \_\_\_\_\_  
17. Dollar Amount of Project: \_\_\_\_\_  
18. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. Customer Name: \_\_\_\_\_  
20. Address: \_\_\_\_\_  
21. Contact Name: \_\_\_\_\_  
22. Contact Title: \_\_\_\_\_  
23. Phone: \_\_\_\_\_  
24. E-Mail Address: \_\_\_\_\_  
25. Date Started & Completed: \_\_\_\_\_  
26. Dollar Amount of Project: \_\_\_\_\_  
27. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1.7 CERTIFICATIONS AND BASE BID

A. Base Bid, Multiple-Prime (Single-Trades) Contract:

B. The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by AE Tech Design and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of each bid category below, Work for above-named Project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sums of:

1. Structured Cabling:

- a. Total (All Buildings)  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- b. St. Joseph High School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- c. Upton Middle School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- d. E.P. Clarke Elementary School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- e. Lincoln Elementary School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- f. Brown Elementary School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- g. St. Joseph Central Office  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- h. Transportation Building  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

2. Network Electronics:

- a. Total (All Buildings)  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- b. St. Joseph High School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- c. Upton Middle School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- d. E.P. Clarke Elementary School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

- e. Lincoln Elementary School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- f. Brown Elementary School  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- g. St. Joseph Central Office  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- h. Transportation Building  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

3. Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1.8 UNIT PRICES

- A. The undersigned Bidder has reviewed the Unit Price requirements and agrees the amounts below shall be added to or deducted from the Contract Sum on performance and measurement of the individual items of Work.
- B. Unit Price No. 1: To pull and terminate a new CAT6 data drop.  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.
- C. Unit Price No. 2: To add or delete one network switch (Model: Meraki MS-250-48FP)  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.
- D. Unit Price No. 3: To add or delete one network switch (Model: Meraki MA-250-24P)  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.
- E. Unit Price No. 4: To add or delete one Cisco LR SFP (Model: SFP-10GB-LR)  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.
- F. Unit Price No. 5: To add or delete one Meraki LRM SFP (Model: MA-SFP-10GB-LRM)  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.
- G. Unit Price No. 6: To add or delete one Meraki LR SFP (Model: MA-SFP-10GB-LR)  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.
- H. Unit Price No. 7: Cost per foot to pull new 12 strand SM Fiber.  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.
- I. Unit Price No. 8: Cost per duplex LC fiber termination.  
1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) per unit.

- J. Unit Price No. 9: Cost per CAT6 re-termination at the workstation end.
  - 1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

1.9 ALTERNATES

- A. Alternate No. 1: Price difference to provide third-party branded SFP's.
  - 1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_).
    - a. \_\_\_\_ Added or \_\_\_\_ Subtracted from total bid.
- B. Alternate No. 2: Price difference to provide 7 Year Advantage Tier Cisco DNA licenses for core switches.
  - 1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_).
    - a. \_\_\_\_ Added or \_\_\_\_ Subtracted from total bid.

1.10 BID GUARANTEE

- A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within 10 days after a written Notice of Award, if offered within 60 days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Base Bid amount above:
  - 1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_).
- B. In the event Owner does not offer a Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.11 SUBCONTRACTORS AND SUPPLIERS

- A. The following companies are included as subcontractors under the Prime contractor for the portions of the Work indicated:
  - 1. Work Scope: \_\_\_\_\_ Company \_\_\_\_\_
  - 2. Work Scope: \_\_\_\_\_ Company \_\_\_\_\_
  - 3. Work Scope: \_\_\_\_\_ Comapny \_\_\_\_\_
  - 4. Work Scope: \_\_\_\_\_ Company \_\_\_\_\_

1.12 TIME OF COMPLETION

- A. The undersigned Bidder proposes and agrees hereby to fully complete the Work by August 2<sup>nd</sup>, 2024.

1.13 ACKNOWLEDGEMENT OF ADDENDA

- A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:
  - 1. Addendum No. 1, dated \_\_\_\_\_.
  - 2. Addendum No. 2, dated \_\_\_\_\_.
  - 3. Addendum No. 3, dated \_\_\_\_\_.

4. Addendum No. 4, dated \_\_\_\_\_.

1.14 BID SUPPLEMENTS

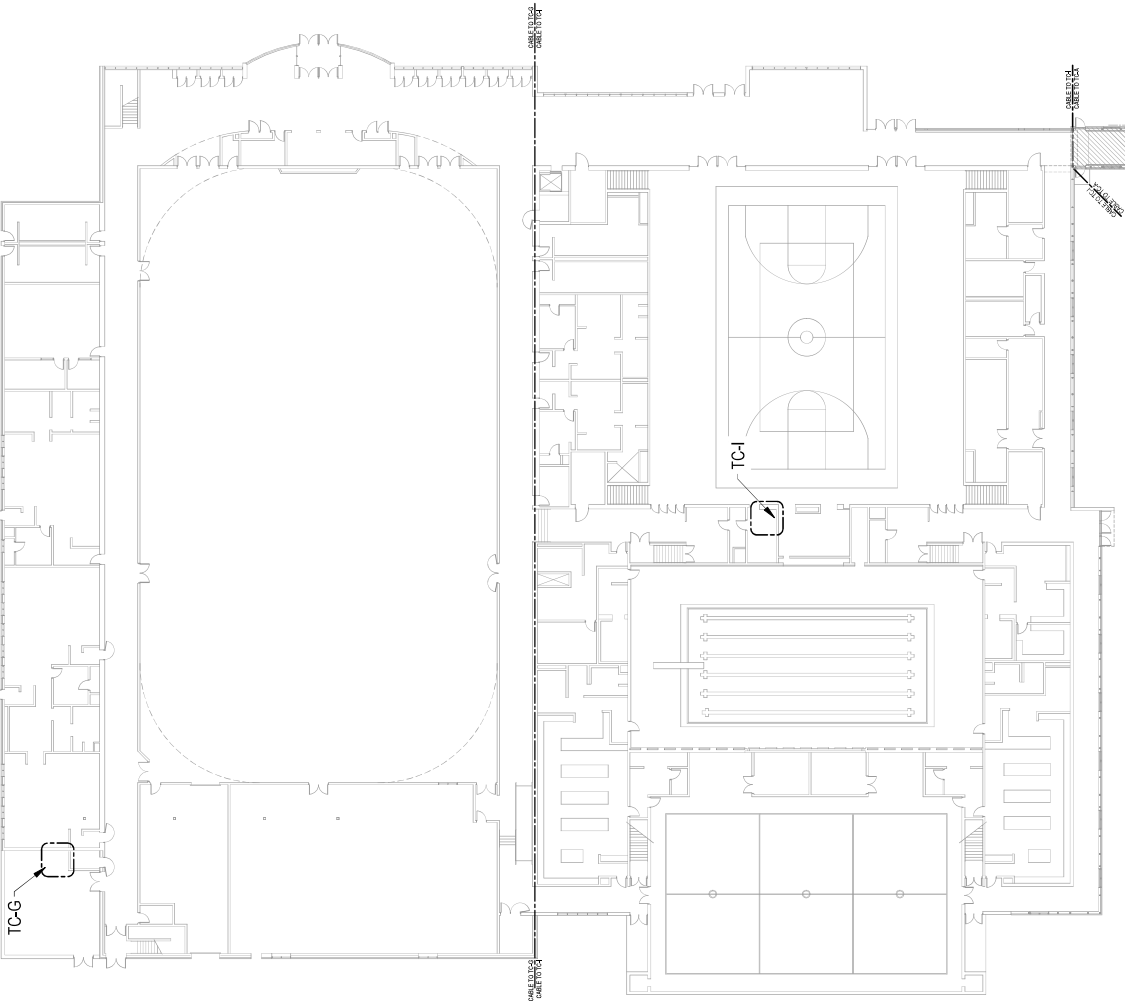
- A. The following supplements are a part of this Bid Form and are attached here to:
1. Bid Form Supplement - Bid Bond Form (AIA Document A310) or bid security.
  2. Bid Form Supplement – Iran Sanctions Act.
  3. Bid Form Supplement – Familial Disclosure.

1.15 SUBMISSION OF BID

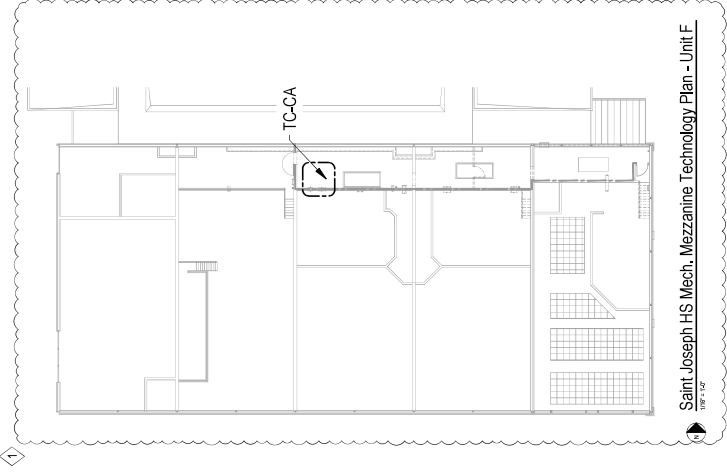
- A. Respectfully submitted this \_\_\_\_ day of \_\_\_\_\_, 2024.
- B. Submitted By: \_\_\_\_\_  
1) (Name of bidding firm or corporation)
- C. Authorized Signature: \_\_\_\_\_
- D. Signed By: \_\_\_\_\_  
a) (Type or Printed name)
- E. Title: \_\_\_\_\_
- F. Street Address: \_\_\_\_\_
- G. City, State, Zip: \_\_\_\_\_
- H. Phone: \_\_\_\_\_
- I. Federal ID No.: \_\_\_\_\_

END OF DOCUMENT 004123

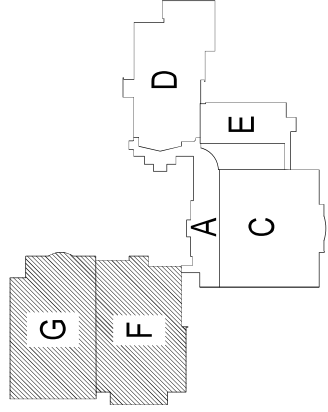




4 Saint Joseph HS Main Floor Technology Plan - Unit F & G  
10/17/12



5 Saint Joseph HS Mech. Mezzanine Technology Plan - Unit F  
10/17/12



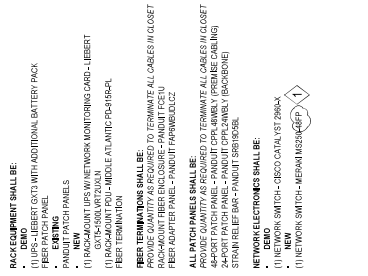
- DEMO GENERAL NOTES**
1. DEMO ALL DEMONSTRATED CHANGES TO THESE COORDINATES.
  2. DEMO ALL DEMONSTRATED CHANGES TO THESE COORDINATES. DEMO SHALL BE COMPLETED TO ORDER FOR THE PROJECT BEFORE REMOVAL FROM SITE.
  3. DEMO PLANS ARE NOT PROVIDED FOR THE CENTRAL OFFICE, TRANSPORTATION AND/OR MECHANICAL ROOMS.

**TECH CLOSET GENERAL NOTES**

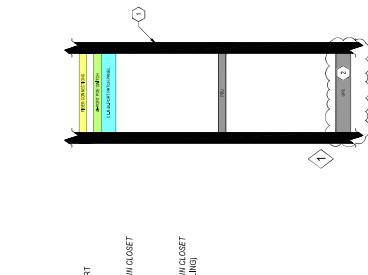
1. TECHNICAL CLOSET SHALL BE CONFORMANCE FRAME.
2. CABLES SHALL BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
3. ALL CABLES IN THE TECHNICAL CLOSET SHOULD BE PROTECTED FROM PHYSICAL DAMAGE.
4. EQUIPMENT MOUNTED ON RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
5. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
6. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
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15. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
16. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
17. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
18. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
19. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.
20. RACKS SHOULD BE INSTALLED IN A MANNER THAT PREVENTS OVERHEATING AND IS PROTECTED FROM PHYSICAL DAMAGE.

**TECH CLOSET KEYED NOTES**

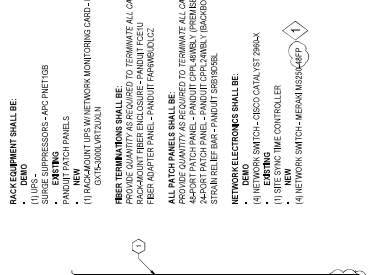
1. ENCLOSED BATTERY PACK
2. NETWORK SWITCH
3. UPS
4. NETWORK SWITCH
5. UPS
6. NETWORK SWITCH
7. UPS
8. NETWORK SWITCH
9. UPS
10. NETWORK SWITCH
11. UPS
12. NETWORK SWITCH
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15. UPS
16. NETWORK SWITCH
17. UPS
18. NETWORK SWITCH
19. UPS
20. NETWORK SWITCH



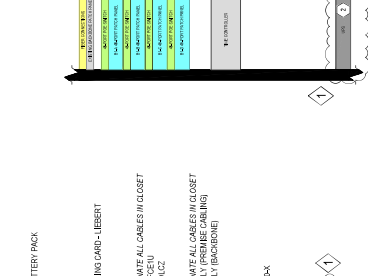
**Brown ES TC-C Tech Rack Elevation**



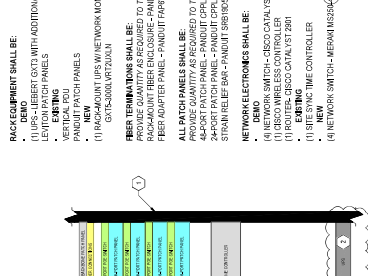
**Lincoln ES TC-A Tech Rack Elevation**



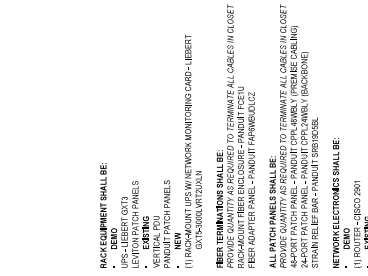
**Upton MS TC-A Tech Rack 1 Elevation**



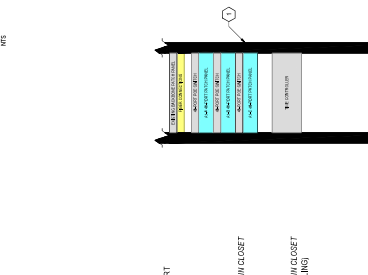
**Upton MS TC-B Tech Rack Elevation**



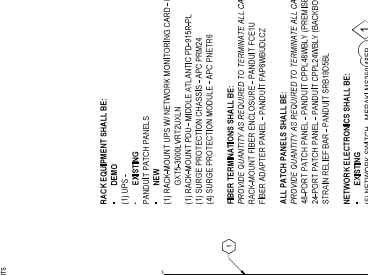
**Brown ES TC-B Tech Rack Elevation**



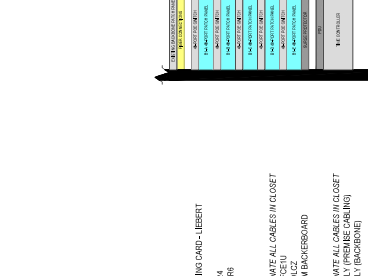
**Brown ES TC-C Tech Rack Elevation**



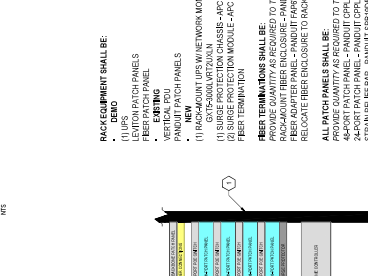
**Lincoln ES TC-A Tech Rack Elevation**



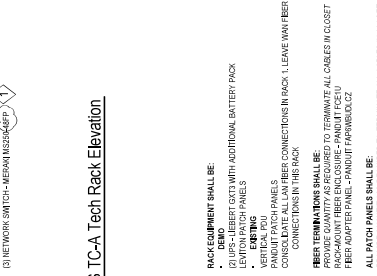
**Upton MS TC-A Tech Rack 1 Elevation**



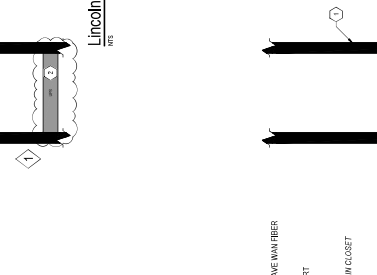
**Upton MS TC-B Tech Rack Elevation**



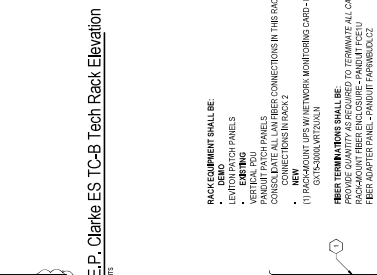
**Brown ES TC-B Tech Rack Elevation**



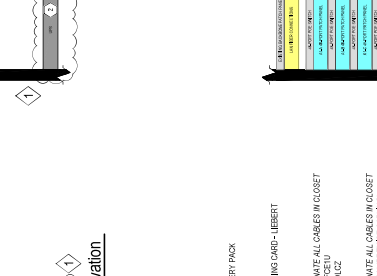
**Brown ES TC-C Tech Rack Elevation**



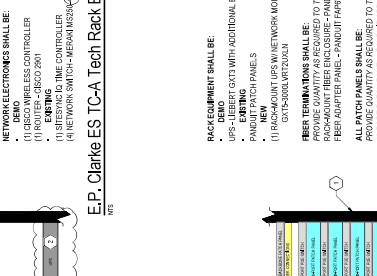
**Lincoln ES TC-A Tech Rack Elevation**



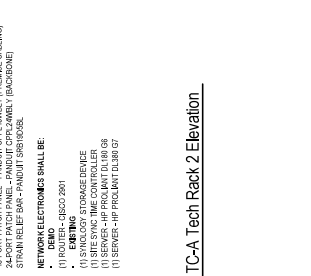
**Upton MS TC-A Tech Rack 1 Elevation**



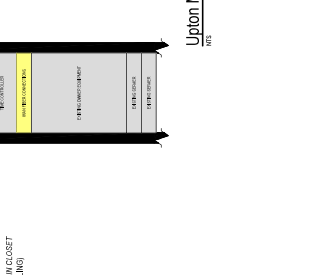
**Upton MS TC-B Tech Rack Elevation**



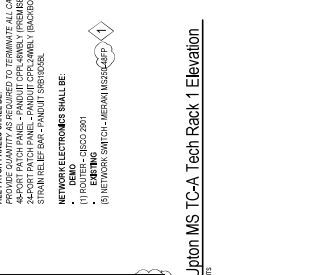
**Brown ES TC-B Tech Rack Elevation**



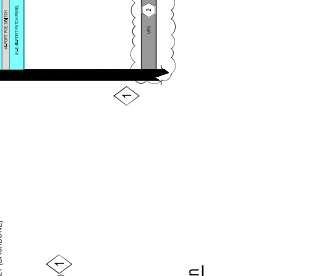
**Brown ES TC-C Tech Rack Elevation**



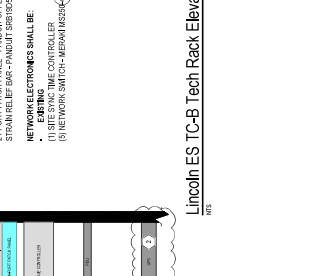
**Lincoln ES TC-A Tech Rack Elevation**



**Upton MS TC-A Tech Rack 1 Elevation**



**Upton MS TC-B Tech Rack Elevation**



**Brown ES TC-B Tech Rack Elevation**





TECH CLOSET GENERAL NOTES

1. TECHNICAL CLOSET SHALL BE CONFORMANCE FRAME.
2. CABLES SHALL BE RATED FOR USE IN A TECHNOLOGY CLOSET. IF ANYTHING IS TO BE INSTALLED IN THE CLOSET, THE SYSTEM SHOULD BE INSTALLED IN A CONFORMANCE FRAME.
3. ALL CABLES IN THE TECHNOLOGY CLOSET SHOULD BE RATED FOR USE IN A CONFORMANCE FRAME.
4. EQUIPMENT MOUNTED ON A CONFORMANCE FRAME SHALL BE RATED FOR USE IN A CONFORMANCE FRAME.
5. CABLES SHALL BE RATED FOR USE IN A TECHNOLOGY CLOSET. IF ANYTHING IS TO BE INSTALLED IN THE CLOSET, THE SYSTEM SHOULD BE INSTALLED IN A CONFORMANCE FRAME.
6. ALL CABLES IN THE TECHNOLOGY CLOSET SHOULD BE RATED FOR USE IN A CONFORMANCE FRAME.
7. EQUIPMENT MOUNTED ON A CONFORMANCE FRAME SHALL BE RATED FOR USE IN A CONFORMANCE FRAME.
8. CABLES SHALL BE RATED FOR USE IN A TECHNOLOGY CLOSET. IF ANYTHING IS TO BE INSTALLED IN THE CLOSET, THE SYSTEM SHOULD BE INSTALLED IN A CONFORMANCE FRAME.
9. ALL CABLES IN THE TECHNOLOGY CLOSET SHOULD BE RATED FOR USE IN A CONFORMANCE FRAME.
10. EQUIPMENT MOUNTED ON A CONFORMANCE FRAME SHALL BE RATED FOR USE IN A CONFORMANCE FRAME.
11. CABLES SHALL BE RATED FOR USE IN A TECHNOLOGY CLOSET. IF ANYTHING IS TO BE INSTALLED IN THE CLOSET, THE SYSTEM SHOULD BE INSTALLED IN A CONFORMANCE FRAME.
12. ALL CABLES IN THE TECHNOLOGY CLOSET SHOULD BE RATED FOR USE IN A CONFORMANCE FRAME.
13. EQUIPMENT MOUNTED ON A CONFORMANCE FRAME SHALL BE RATED FOR USE IN A CONFORMANCE FRAME.
14. CABLES SHALL BE RATED FOR USE IN A TECHNOLOGY CLOSET. IF ANYTHING IS TO BE INSTALLED IN THE CLOSET, THE SYSTEM SHOULD BE INSTALLED IN A CONFORMANCE FRAME.
15. ALL CABLES IN THE TECHNOLOGY CLOSET SHOULD BE RATED FOR USE IN A CONFORMANCE FRAME.

TECH CLOSET KEYED NOTES

1. ENCLOSED DEVICE BACK.
2. INSTALL WITH BOTTOM OF RACK WHEN POSSIBLE (LEFT PANEL LOCATION).
3. NEW.
4. MAKE REFERENCE TO THE CONTRACTOR'S RACK AT OWNERS' RESIDENCE.
5. SEE DRAWING COMMENTS TO DRAW.

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

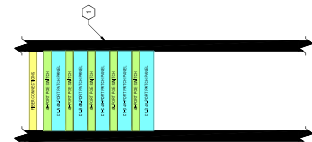
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-B Tech Rack Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-C Tech Rack Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

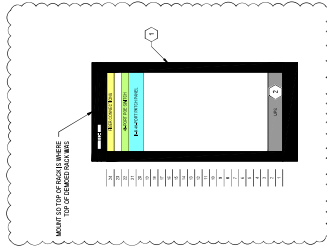
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-H Tech Rack Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

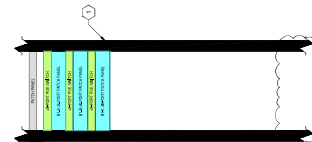
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-B Tech Rack Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

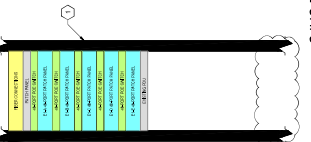
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-E Tech Rack Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

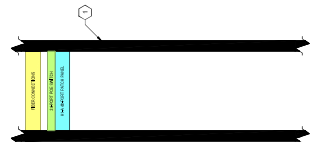
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-H (Stadium) Tech Rack Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

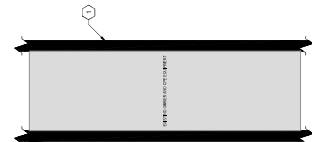
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-A Tech Rack 6 Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

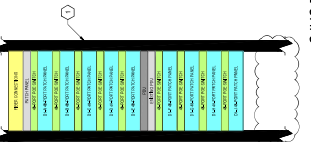
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP



SJHS TC-D Tech Rack Elevation

PACK EQUIPMENT SHALL BE:

- EXISTING
- NEW

NEW

BEER TERMINATIONS SHALL BE: TO TERMINATE ALL CABLES IN CLOSET

PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES IN CLOSET

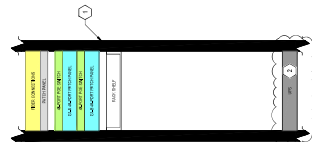
4-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

24-PORT PATCH PANEL - PANDUIT (PREMISE CABLING)

STRAIN RELIEF BAR - PANDUIT (SBI1800BL)

NETWORK ELECTRONICS SHALL BE:

- NEW
- 1) NETWORK SWITCH - CISCO CATALYST 2960-X
- 2) NETWORK SWITCH - MESA81M3240FP

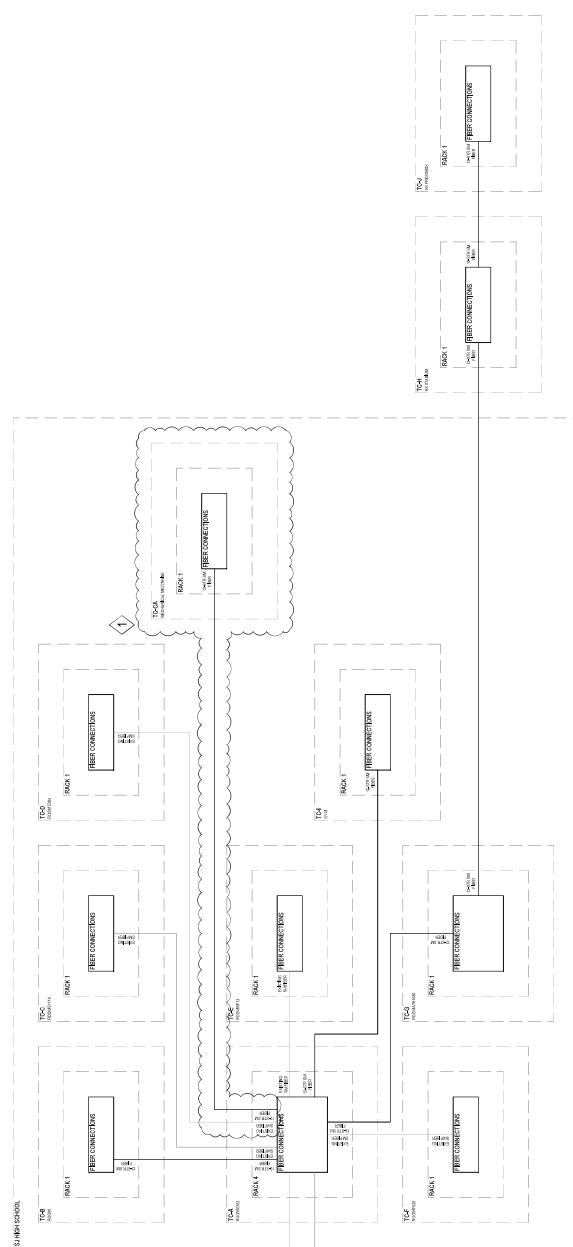


SJHS TC-G Tech Rack Elevation

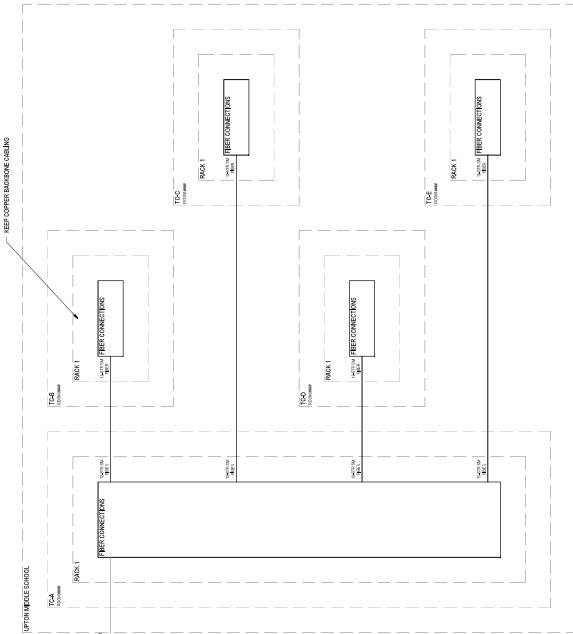


- CABLING DISTRIBUTION NOTES**
1. PROVIDE SUFFICIENT MAINTENANCE CLEARANCE TO ALLOW ACCESS TO ALL CABLES AND PATCH PANELS.
  2. PROVIDE FULLY FINISHED FLOORING BETWEEN TECHNOLOGY ROOMS. TERMINATE ALL CABLES TO THE FLOORING.
  3. USE PATCH PANELS TO CONNECT AND ORGANIZE CABLES AND PATCH PANELS TO THE FLOORING.
  4. PROVIDE PATCH PANELS TO ALL RACKS TO ALLOW FOR FUTURE EXPANSION AND RECONFIGURATION.
  5. PROVIDE PATCH PANELS TO ALL RACKS TO ALLOW FOR FUTURE EXPANSION AND RECONFIGURATION.

- GROUNDING NOTES**
1. PROVIDE ALL GROUNDING CONNECTIONS TO RACKS AND CABLE TRAYS ARE UNINTERRUPTED.



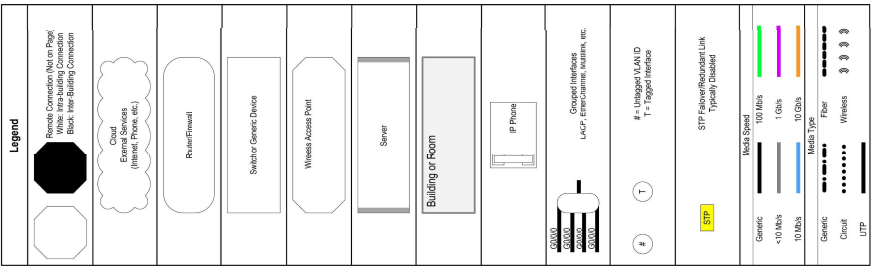
St. Joseph's Middle School  
SJHS Inner-Building Backbone Cabling Riser  
WTS



Upton Middle School  
Upton MS Inner-Building Backbone Cabling Riser  
WTS

ISSUE DATE	2024-10-27
PROJECT NO.	2024-10-27-001
PROJECT NAME	ST. JOSEPH'S MIDDLE SCHOOL
PROJECT LOCATION	ST. JOSEPH'S MIDDLE SCHOOL
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PROJECT LOCATION	ST. JOSEPH'S MIDDLE SCHOOL

100 REPORT ROAD, SUITE 1000 PORTLAND, ME 04259  
 TEL: 207.261.4444 FAX: 207.261.4444  
 WWW.TECHDESIGN.COM



**GENERAL NETWORK NOTES**

1. INCLUDE PORTS ON SWITCHES THAT ARE TO BE USED FOR FUTURE EXPANSION.
2. ALL OPTICAL EQUIPMENT SHALL BE CONNECTED TO OPTICAL SWITCHES.
3. ALL OPTICAL EQUIPMENT SHALL BE CONNECTED TO OPTICAL SWITCHES.
4. COMPARE ALL DUAL-PLEX CONNECTIONS APPROX.
5. INCLUDE DUAL-PLEX SUPPLY FOR ALL SWITCHES.
6. ALL SWITCHING SHALL BE COMPLETED AS PER PLAN TRUNKS.
7. ALL SWITCHES SHALL BE CONFIGURED TO SUPPORT VRRP.
8. ALL SWITCHES SHALL BE CONFIGURED WITH LOSS TO PRIORITIES W/MS AND W/MS PORTS.
9. RESISTANCE TO CHANGE IS PROHIBITED.
10. PROVIDE TO THE OWNER ALL NETWORKING TRUNK NETWORKS.

