Budget

Part 1

Total cost of cabling = \$1,604.07

- Southwire 1000ft cat5e cable = \$178.23
- $$178.23 \times 19 = $3,386.37$
- Total cabling for building is 18,642ft (5,682 meters = 18,641.73 ft)
- Total cable per floor
 - o 1,617 meters (3rd Floor)
 - o 1,696 meters (2nd Floor)
 - o 1,557 meters (1st Floor)
 - o 812 meters (basement)
- Home depot Southwire 1000ft Cabling
 - o https://www.homedepot.com/p/Southwire-1000-ft-Blue-24-4-CAT5e-CMP-Plenum-Data-Cable-56917749/202316503

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Total cost of outlets = \$267.84

- Tripp Lite 2 port faceplate = \$1.99
 - \circ \$1.99 *x* 54 = \$107.46
- Commercial Electric = \$2.97
 - \circ \$2.97 × 54 = \$160.38
- Total outlet and faceplate per floor
 - 16 outlets & 8 faceplates (basement)
 - o 28 outlets & 14 faceplates (1st floor)
 - o 32 outlets & 16 faceplates (2nd floor)
 - o 32 outlets & 16 faceplates (3rd floor)
- Tripp Lite: https://www.insight.com/en_US/buy/product/N042-001-WH/Tripp-Lite-Dual-Outlet-RJ45-Universal-Keystone-Face-Plate--Wall-Plate--face-plate/
- Commercial Electric https://www.homedepot.com/p/Commercial-Electric-Category-5e-Jack-White-5025-WH/206427940

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Total cost of patch panels – \$227.83

- Tripp Lite 24 port patch panel (basement) \$38.92
 - \circ \$38.92 × 1 = \$38.92
- Tripp Lite 48 port patch panel- \$62.97
 - \circ \$62.97 \times 3 = \$188.91
- https://www.newegg.com/Product/Product.aspx?item=N82E16812998069
- https://www.newegg.com/Product/Product.aspx?item=N82E16812998084

Part 2

Equipment room (1st floor)

- Core switch (managed)
- 48 port switches

Telecomm room (Basement)

• 24 port switches

Telecomm room (2nd floor)

48 port switches

Telecomm room (3rd floor)

• 48 port switches

Total cost of switches = \$1,175.95

Core switch - NETGEAR 12 port managed switch - \$1,132.44

- $\$1,132.44 \times 1 = \$1,132.44$

NETGEAR 24-Port managed switch – \$259.99

- $$259.99 \times 1 = 259.99
- https://www.newegg.com/Product/Product.aspx?Item=N82E16833222025&Description =netgear%20managed%20switch&cm_re=netgear_managed_switch- -33-222-025-

Product NETGEAR 48-port managed switch – \$388.43

- $$388.43 \times 3 = $1.165.29$
- https://www.newegg.com/Product/Product.aspx?Item=N82E16833122948&Description =48%20port%20gigabit%20switch&cm_re=48_port_gigabit_switch-_-33-122-948-_-Product

Total cost of cabling – \$146.36

CAT5e Ethernet Patch cable 10ft (25 pack) - \$17.28

- Total price of cabling = \$17.28 x 5 = **\$86.40**
- 108 patch cables needed
- https://www.cablesys.com/ethernet/cat5e-ethernet-patch-cord-with-24-awg-utp-cable-with-snagless-boot-25-bulk-pack/

Belikn CAT5e Crossover Patch Cable – \$14.99 each

- \$14.99 x 4 = **\$59.96**
- https://www.belkin.com/us/p/P-A3X126-M/

Part 3

Firewall - NETGEAR ProSafe Firewall- \$109.99

- \$109.99 x 1 = \$109.99
- https://www.amazon.com/NETGEAR-ProSafe-FVS336G-Firewall-FVS336G-300NAS/dp/B00O4UJHFG/ref=sr 1 17?keywords=firewall&qid=1556206989&s=gateway&sr=8-17

Students:

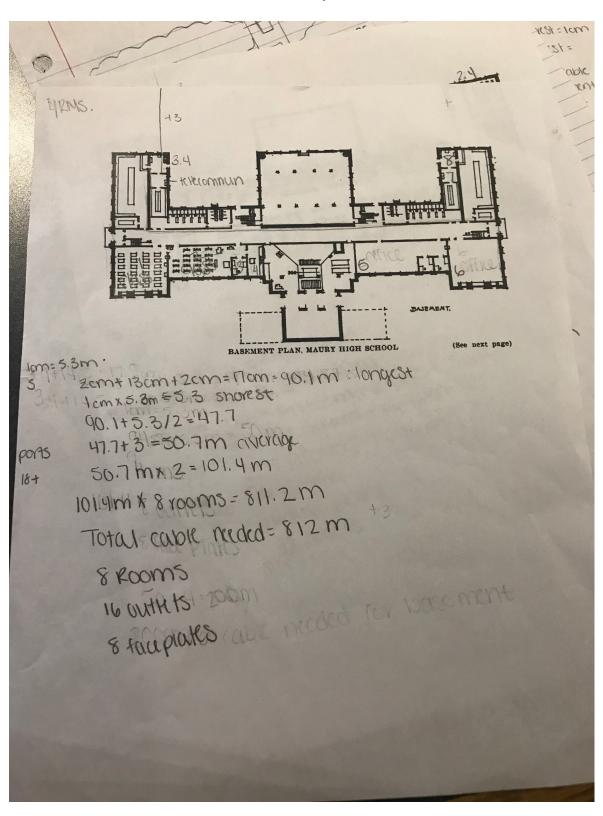
- Access will be restricted.
- Students won't be able to access
 - Porn sites
 - Twitter
 - o Facebook
 - Instagram
 - Unsecure sites
- Students will be able to access
 - o YouTube
 - o Google
 - o Yahoo
 - Educational sites

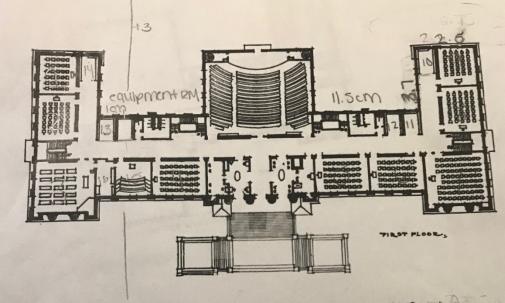
Staff

- Access will be restricted.
- Staff won't be able to access
 - Porn sites
 - Unsecure sites
- Staff will be able to access
 - Emails
 - o YouTube
 - o Google
 - o Yahoo
 - Educational sites

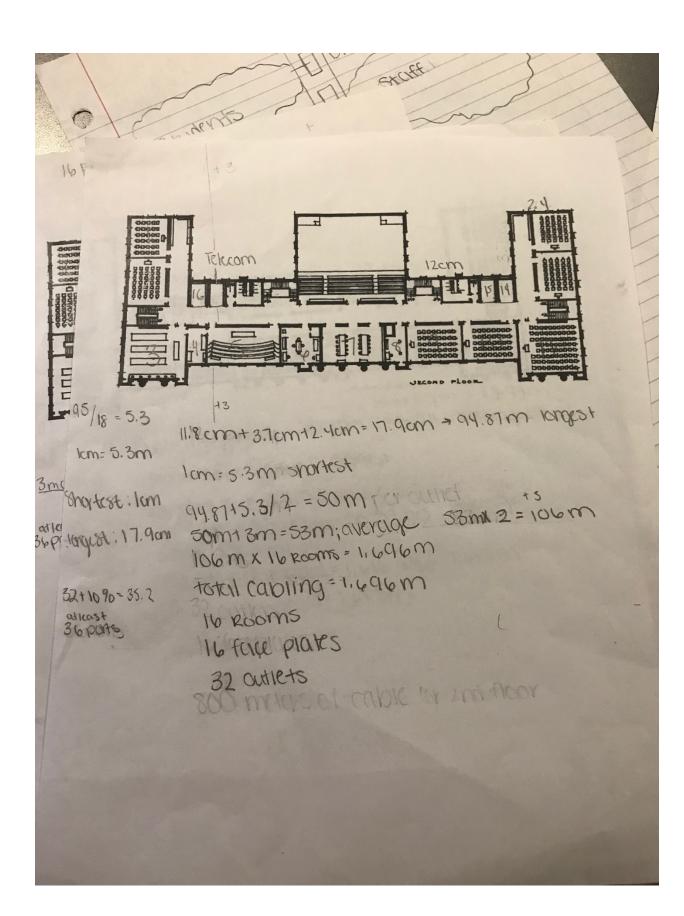
Total cost for Maury High School = \$4,913.81

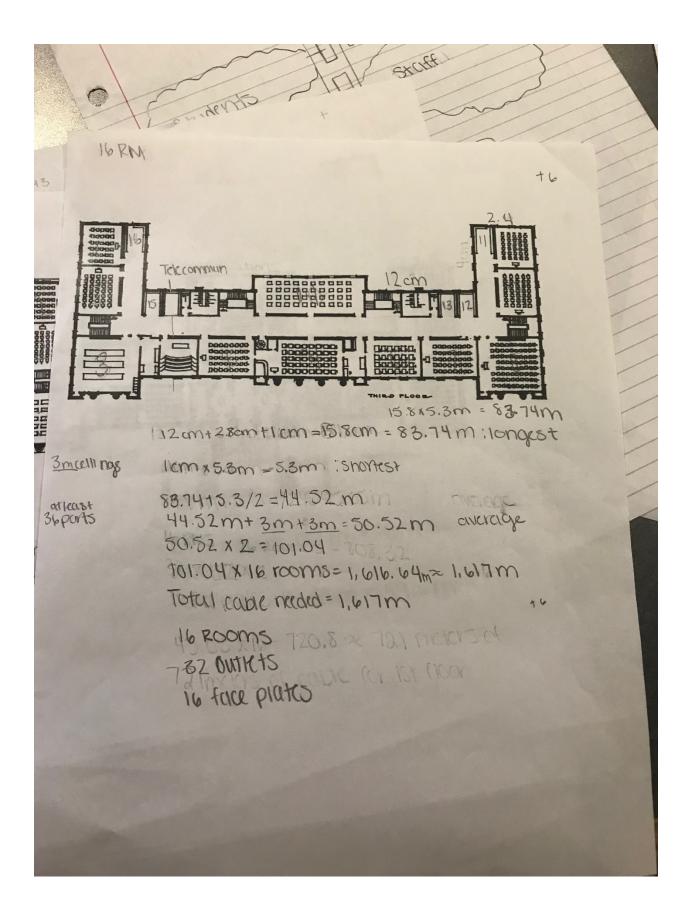
Floor plans





width-18cm $1.95/18\approx5.3.$ 1.75.3m=1cm 1.85.3m=1cm 1.





Part 2 2nd Floor PCIA 2 3rd floor Telecomm closed klecomm closet Switch Switch 48 port 48 port 1St Floor Equipment Core switch 48 port switch Basement KICCOMM CLOSE+ Switch 24 POPT

