Audio Visual Symbols, Abbreviations & Schedules
DRAWING NOTES

AV201 AUDIO VISUAL PLAN - FIRST LEVEL

1/8" = 1'-0" SCALE

N

1 STUB CONDUIT TO OPEN CEILING SPACE ABOVE
2 PROJECTOR WITH MOUNT AFIXED TO STRUCTURE WITH ALL THREAD AND UNISTRUT. CABLING ROUTED TO SMART LECTERN
3 SMART LECTERN AUDIO VISUAL EQUIPMENT IS RACK MOUNTED WITH UNIT
4 CEILING SPEAKER WITH TILE BRIDGE. CABLING ROUTED TO SMART LECTERN

March 31, 2006
DRAWING NOTES

1. STUB CONDUIT TO OPEN CEILING SPACE ABOVE
2. PROJECTOR WITH MOUNT AFIXED TO STRUCTURE WITH ALL THREAD AND UNISTRUT. CABLING ROUTED TO SMART LECTERN
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4. CEILING SPEAKER WITH TILE BRIDGE. CABLING ROUTED TO SMART LECTERN

March 31, 2006

DATE SHEET NUMBER

ARCHITECT/ENGINEER STAMP

DESIGN DEVELOPMENT

SHEET TITLE

REVISIONS

PHASE

12499 WEST COLFAX AVENUE
LAKEWOOD, CO 80215
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LAKEWOOD, CO 80215

v 303.431.6100
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2190 EAST 17TH AVENUE
DENVER, CO 80206
DENVER, CO 80206
DENVER, CO 80206
DENVER, CO 80206

v 303.832.1712
v 303.832.1712
v 303.832.1712
v 303.832.1712

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f 303.832.1713
f 303.832.1713

1550 DOVER STREET
SUITE 2
LAKEWOOD, CO 80215

v 303.232.6200

f 303.233.3701

2060 BRIARGATE PARKWAY
SUITE 220
COLORADO SPRINGS, CO 80920
COLORADO SPRINGS, CO 80920
COLORADO SPRINGS, CO 80920
COLORADO SPRINGS, CO 80920

v 719.533.1112
v 719.533.1112
v 719.533.1112
v 719.533.1112

f 719.533.1113

4309 WEST 44TH AVE.
DENVER, CO 80212

v 303.455.3779
v 303.455.3779
v 303.455.3779
v 303.455.3779

f 303.455.8140
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DWIRE HALL Renovation and Technology Upgrade
UNIVERSITY OF COLORADO
COLORADO SPRINGS
OWNER

University of Colorado
Colorado Springs Campus Services
1420 Austin Bluffs Parkway
Colorado Springs, CO 80918

925 ELKTON DRIVE COLORADO SPRINGS, CO 80949

v 719.599.7710
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v 719.599.7710

f 719.599.4744
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MECHANICAL/ELECTRICAL ENGINEER
CATOR, RUMA, & ASSOCIATES, CO
TECHNOLOGY
RIMROCK GROUP, INC

LANDSCAPE ARCHITECT
PARKS & GARDENS LLC PARKS & GARDENS LLC PARKS & GARDENS LLC PARKS & GARDENS LLC

CM/GC
NUNN CONSTRUCTION INC. NUNN CONSTRUCTION INC. NUNN CONSTRUCTION INC. NUNN CONSTRUCTION INC.

925 ELKTON DRIVE COLORADO SPRINGS, CO 80949

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DWIRE HALL Audio Visual Plan - Third Level

1/8" = 1'-0" SCALE
Telecommunications Symbols, Abbreviations & Schedules

**General Notes**
- All telecommunications equipment and accessories shall conform to the latest edition of the National Electrical Code, Local Electrical Codes, and all applicable TIA/EIA Standards.
- Electrical contractor to provide backboards, surface mounted on wall, surface mounted on/in surface raceway. Provide specialized faceplate/mounting. Prior to rough-in, coordinate with architectural elevations, details, and/or drawings, shop drawings, and/or respective trades for exact location.
- Telecommunication contractor to provide elevations, details, and/or drawings, shop drawings, and/or respective trades for exact location.
- Basic specifications and drawings. Telecommunication contractor to provide elevations, details, and/or drawings, shop drawings, and/or respective trades for exact location.
- Outlets in device box installed in wall, furniture, or casework; complete with cable, ports, and faceplate.
- Outlet installed in floor box; complete with cable, ports, and faceplate.
- Empty box installed in ceiling; ready for telecommunication outlet (cable, ports, and faceplate) to be installed.
- Junction box empty box; ready for telecommunication outlet (cables) to be installed.

**Symbols and Abbreviations**

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**Equipment Schedule**

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GENERAL NOTES

KEY NOTES

NOT ALL NOTES APPEAR ON THIS SHEET

1. COPPER BACKBONE CABLES ARE CALLED OUT ON THIS DRAWING IN MULTIPLES OF 50 PAIRS FOR CLARITY. AT THE CONTRACTOR’S DISCRETION, IF A TELECOMMUNICATIONS ROOM IS SERVED BY MORE THAN ONE 50-PAIR CABLE, THE CONTRACTOR MAY SUBSTITUTE A SINGLE HIGHER PAIR COUNT CABLE FOR THE MULTIPLE 50-PAIR CABLES SHOWN (I.E. THE CONTRACTOR MAY SUBSTITUTE A SINGLE 100-PAIR CABLE IN LIEU OF (2) 50-PAIR CABLES, A SINGLE 200-PAIR CABLE IN LIEU OF (4) 50-PAIR CABLES, ETC). INTERCONNECTING COPPER BACKBONE CABLES BETWEEN TELECOMMUNICATION ROOMS ARE NOT ACCEPTABLE.

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1. Coordinate with civil utility plan for all utility work prior to trenching or sawcutting for new ductbank. Contractor shall provide pothole visual verification of all existing underground cabling and ducts, prepare field notes and associated documentation, and discuss and coordinate with general contractor and other trades. Existing cable damaged by the contractor shall be repaired or replaced by the contractor at no additional cost to the owner and shall...

2. Refer to division 16 specifications, electrical drawings, and telecom drawing details for provision of outside plant telecommunications ductbanks, handholes, cable support arms, ducts, and plugs.

3. Submittals shall, as a minimum, include:
   - Warning tape
   - Approximate intercept
   - Approximate location of existing telecom room

4. The duct encasement shall be built up layer by layer. Maximum depth of each layer to be 6". After each layer is placed, sand shall be spread evenly and compacted to the depth indicated. To maintain uniform clearance between existing conduits and (1) 24-mm/12-sm backbone cabling to manhole MH-B.

5. Place backfill in a manner to avoid dislodging soil from movement of the free end with expansion required to permit uniform grade and alignment of ductbank joints shall be offset a minimum of 6 inches horizontally and connected longitudoinal to provide continuous support for the next tier of ducts. Sand shall be spread evenly and compacted to the depth indicated. To maintain uniform clearance between existing conduits and new (3) 4-inch direct buried conduits.

6. Provide 3/16" (minimum) nylon pull cord in all new conduits at demolition, contractor to uninstall (1) 24-mm/12-mm fiber to TR-1, contractor to reinstall 200-pr copper and (1) 48-mm/24-sm (1) 24-mm/12-sm backbone cabling to manhole MH-E after installation of new handhole and (3) 4-inch conduits to TR-1, contractor to splice 200-pr copper and (1) 48-mm/24-sm (1) 24-mm/12-sm fiber to TR-1.

7. Expose existing ducts and connect points in advance as required to permit uniform grade and alignment of ductbank.
1. TELECOMMUNICATIONS RACEWAY SHALL CONSIST OF 1-INCH MINIMUM DIA.

2. ROUTE STATION CABLING INTO CABLE SUPPORTS SUCH THAT CABLE VISIBILITY WILL BE MINIMIZED IN OPEN CEILING AREAS.

3. PRIOR TO INSTALLATION, CONTRACTOR SHALL VERIFY THE TOTAL RUN LENGTH OF CABLE (SLEEVES, ETC) AS INSTALLED. FOR RUN LENGTHS WHICH EXCEED 270 FEET, CONTRACTOR SHALL OBTAIN THE ENGINEER'S DIRECTION PRIOR TO PROCEEDING WITH INSTALLATION.
1. TELECOMMUNICATIONS RACEWAY SHALL CONSIST OF 1-INCH MINIMUM CONDUIT FROM EACH DEVICE BOX TO OPEN OR ACCESSIBLE CEILING SPACE. REFER TO DIVISION 16 SPECIFICATIONS, ELECTRICAL DRAWINGS AND TELECOM DETAIL DRAWING FOR PROVISION OF DEVICE BOXES AND TELECOM RACEWAYS.

2. PROVIDE J-HOOK TYPE CABLE SUPPORTS IN OPEN OR ACCESSIBLE CEILING SPACE AS REQUIRED TO SUPPORT STATION CABLES. ROUTE STATION CABLING INTO CABLE SUPPORTS SUCH THAT CABLE VISIBILITY WILL BE MINIMIZED IN OPEN CEILING AREAS.

3. PRIOR TO INSTALLATION, CONTRACTOR SHALL VERIFY THE TOTAL RUN LENGTH FOR EACH STATION (OUTLET) CABLE BACK TO THE TELECOMMUNICATIONS ROOM, USING THE RACEWAYS (CONDUIT, SLEEVES, ETC) AS INSTALLED. FOR RUN LENGTHS WHICH EXCEED 270 FEET (INCLUDING UPS/DOWNS AND REQUIRED CABLE SLACK), CONTRACTOR SHALL OBTAIN THE ENGINEER'S DIRECTION PRIOR TO PROCEEDING WITH INSTALLATION.

GENERAL NOTES

KEY NOTES

NOT ALL NOTES APPEAR ON THIS SHEET

1. BOUNDARY/ZONE FOR STATION DROPS SERVED BY TR-1

89 EZ-PATH FIRESTOP DEVICE(S)
1. TELECOMMUNICATIONS RACEWAY SHALL CONSIST OF 1-INCH MINIMUM CONDUIT FROM EACH DEVICE BOX TO OPEN OR ACCESSIBLE CEILING SPACE. REFER TO DIVISION 16 SPECIFICATIONS, ELECTRICAL DRAWINGS AND TELECOM DETAIL DRAWING FOR PROVISION OF DEVICE BOXES AND TELECOM RACEWAYS.

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1. Station patch panel quantities shown are representative of University of Colorado only. The contractor is to provide final quantities as required to support all stations, along with 2U horizontal management panels between all station patch panels.

Key Notes:

- Not all notes appear on this sheet.
- See division 16 specifications and electrical drawings.
- Mount at +7ft AFF.
- Mount at +8ft-3in AFF.
- Mount ladder rack (cable runway) vertically.
- Ladder rack used to support cable to/from sleeves. Install with cross members out from wall.
- 4-inch conduit sleeves to floor above/below. Sleeves used to route backbone and station cables. See division 16 specifications and drawings.
- 4-inch ducts from handhole. See division 16 specifications and drawings. Ducts used to route OSP backbone cables. Location is approximate.
- Out inside plant (OSP) cable(s) from handhole. TYP.
- Singlemode and multimode fiber OSP cable from EL POMAR CENTER. See riser diagram sheet T001.
- Terminalize singlemode and multimode fiber tie cable from COPPER STUB(S) FROM BEP TO COPPER SPLICE ENCLOSURE.
- Terminalize singlemode and multimode fiber tie cable from COPPER STUB(S) FROM BEP TO 110-BLOCK ON WALL.
GENERAL NOTES

1. STATION PATCH PANEL QUANTITIES SHOWN ARE REPRESENTATIVE ONLY. THE CONTRACTOR IS TO PROVIDE FINAL QUANTITIES AS MANAGEMENT PANELS BETWEEN ALL STATION PATCH PANELS.

2. SEE DIVISION 16 SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR SLEEVE LOCATIONS APPROXIMATE.

3. SPACE RESERVED FOR FUTURE AND/OR OWNER EQUIPMENT.

4. SPACE RESERVED FOR SECURITY PANEL. COORDINATE LOCATION WITH SECURITY DRAWINGS AND SHOP DRAWINGS.

5. 3/4" = 1'-0"

6. DO NOT PLACE BACKBONE CABLES ON THIS SECTION.

7. 2'-9" = 1'-0"

8. SEE DIVISION 16 SPECIFICATIONS AND DRAWINGS FOR SLEEVE LOCATIONS APPROXIMATE.

9. EZ-PATH FIRESTOP DEVICE(S)

10. OSP DUCTS AND CABLES TO ENTER ROOM HERE. LOCATION SHOWN IS APPROXIMATE. SEE NOTE 23

11. OSP DUCTS AND CABLES TO ENTER ROOM HERE. LOCATION SHOWN IS APPROXIMATE. SEE DIVISION 16 SPECIFICATIONS AND DRAWINGS FOR SLEEVE LOCATIONS APPROXIMATE.

12. DO NOT PLACE BACKBONE CABLES ON THIS SECTION.

13. 3/4" = 1'-0"

14. DO NOT PLACE BACKBONE CABLES ON THIS SECTION.

15. 2'-9" = 1'-0"

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