

J. Scott Fabling

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Medical Facilities Consulting and Engineering Projects

Colorado Department of Health – Denver, CO (12 Month Project – Staff of 8):

Background:

CDoH procured and performed a total renovation of 200,000 sq. ft. facilities to consolidate their administrative, laboratory and records divisions from five (5) locations, consisting of over 2,000 workstation nodes- Primary hosts Novell, HP and Wang.

Program Management:

Provided primary consultative and technical support, including:

- Strategic Business Planning
- Strategic Technical Planning
- Analysis and Inventory of Existing Systems and Facilities
- Business and Technical Requirements Identification and Documentation
- Demolition and Construction Oversight
- Life-Cycle Project Management

Engineering and Consulting:

Provided lead engineering and design consulting, including:

High-Level Design:

Facilities Renovation:

- Architecture Strategic Planning
- Architecture Design, Specification and Review
- Demolition and Decommission Planning
- Computer Room Design
- MDF and IDF Room Design
- Campus Services Access Design
- UPS, Transients, Harmonics, “Digital Quality” Power Design
- HVAC Design

Physical Cable-Plant:

- Architecture Strategic Planning (Voice, Video, Data – 8 Standards Supported)
- Raceways and Inter-Building Design Specifications
- MDF and IDF Room Design
- Lightning Protection Design
- Cat-5, Cat-3, Coax Copper Cabling Design
- Fiber-Optic Cabling Design
- Systems Design Specifications, RFP Management and Review

LAN / WAN Systems:

- Standards Specifications
- Topology Architecture
- Component Specifications, RFP Management and Review
- Connectivity Specifications

Production Systems:

- Standards Specifications
- Application Architecture and Interoperability
- Platform Architecture
- Computer Room Foot-Print Layout
- Component Specifications, RFP Management and Review

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Medical Facilities Consulting and Engineering Projects

Connectivity Specifications

Detailed-Level Design:

Facilities Renovation:

Naming and Numbering Specifications

Physical Locations Specifications

Architectural Plans Review

Physical Cable-Plant:

Naming and Numbering Specifications

Physical Location Specifications

Drop Specifications

Cut and Punch Lists

Cross-Connect Specifications

Extension Specifications

CAD and Document "To-Build-To" Specifications

LAN / WAN Systems:

Standards Specifications

Topology Architecture

Component Specifications, RFP Management and Review

Connectivity Specifications

CAD and Document "To-Build-To" Specifications

Production Systems:

Standards Specifications

Application Architecture and Interoperability

Platform Architecture

Computer Room Foot-Print Layout

Component Specifications, RFP Management and Review

Connectivity Specifications

OS and Applications Configuration Specifications

CAD and Document "To-Build-To" Specifications

Relocation Planning:

Physical Asset Move Planning

Staging and Production Down-time Planning

Systems Migration Planning

New Systems Training Planning

Fault-Tolerance and Redundancy Planning

Task List and Scheduling Planning

Implementation:

Facilities Renovation:

Monitor Construction

Identify, Document, Track and Resolve Issues

Physical Cable-Plant:

Review and Advise in Contract Negotiations

Source and Procure Components

Validate Custom Designs to Specifications

Monitor Construction

Identify, Document, Track and Resolve Issues

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Medical Facilities Consulting and Engineering Projects

Administrative Training

LAN / WAN Systems:

Review and Advise in Contract Negotiations
Source and Procure Components
Monitor Bench-Test and Assembly
Monitor Pre-Installation Configuration
Define & Monitor Proof-of-Concept Interoperability Testing
Identify, Document, Track and Resolve Issues
Administrative Training

Production Systems:

Review and Advise in Contract Negotiations
Source and Procure Components
Monitor Platform Bench-Test and Assembly
Monitor Pre-Installation Configuration
Monitor Application Development and Integration
Define & Monitor Proof-of-Concept Interoperability Testing
Monitor Migration
Identify, Document, Track and Resolve Issues
Administrative Training
Customer Training

Relocation:

Review and Advise in Mover Contract Negotiations
Source and Procure Components
Monitor Disassembly and Assembly
Monitor Pre-Installation Configuration
Monitor Application Development and Integration
Define & Monitor Proof-of-Concept Interoperability Testing
Monitor Migration
Identify, Document, Track and Resolve Issues

Post Implementation:

Facilities Renovation:

7 x 24 Maintenance and Support Contracts
CAD and "As-Built" Documentation

Physical Cable-Plant:

7 x 24 Maintenance and Support Contracts
Moves, Adds and Changes (MAC)
CAD and "As-Built" Documentation

LAN / WAN Systems:

7 x 24 Maintenance and Support Contracts
Moves, Adds and Changes (MAC)
CAD and "As-Built" Documentation

Production Systems:

7 x 24 Maintenance and Support Contracts
Moves, Adds and Changes (MAC)
Revisions, Upgrades and Enhancements (RUE)
CAD and "As-Built" Documentation

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Medical Facilities Consulting and Engineering Projects

Lutheran Medical Center - Westminster, CO (20 Month Project – Staff of 15):

Background:

LMC, one of the oldest and most prestigious medical facilities in the Denver Metro Area, performed a \$3M infrastructure enhancement, renovating a 7-Building Campus Design and Build – consisting of over 4,000 nodes - Primary hosts consisting of Novell, Sun, and DEC.

Program Management:

Provided primary consultative and technical support, including:

- Strategic Business Planning
- Strategic Technical Planning
- Analysis and Inventory of Existing Systems and Facilities
- Business and Technical Requirements Identification and Documentation
- Demolition and Construction Oversight
- Life-Cycle Project Management

Engineering and Consulting:

Provided lead engineering and design consulting, including:

High-Level Design:

Facilities Renovation:

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- Campus Services Access Design
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- HVAC Design

Physical Cable-Plant:

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- Cat-5, Cat-3, Coax Copper Cabling Design
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- Systems Design Specifications, RFP Management and Review

LAN / WAN Systems:

- Standards Specifications
- Topology Architecture
- Component Specifications, RFP Management and Review
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Production Systems:

- Standards Specifications
- Application Architecture and Interoperability
- Platform Architecture
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Medical Facilities Consulting and Engineering Projects

Connectivity Specifications

Detailed-Level Design:

Facilities Renovation:

Naming and Numbering Specifications

Physical Locations Specifications

Architectural Plans Review

Physical Cable-Plant:

Naming and Numbering Specifications

Physical Location Specifications

Drop Specifications

Cut and Punch Lists

Cross-Connect Specifications

Extension Specifications

CAD and Document "To-Build-To" Specifications

LAN / WAN Systems:

Standards Specifications

Topology Architecture

Component Specifications, RFP Management and Review

Connectivity Specifications

CAD and Document "To-Build-To" Specifications

Production Systems:

Standards Specifications

Application Architecture and Interoperability

Platform Architecture

Computer Room Foot-Print Layout

Component Specifications, RFP Management and Review

Connectivity Specifications

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Relocation Planning:

Physical Asset Move Planning

Staging and Production Down-time Planning

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New Systems Training Planning

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Task List and Scheduling Planning

Implementation:

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Validate Custom Designs to Specifications

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Medical Facilities Consulting and Engineering Projects

Administrative Training

LAN / WAN Systems:

Review and Advise in Contract Negotiations
Source and Procure Components
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Monitor Pre-Installation Configuration
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Identify, Document, Track and Resolve Issues
Administrative Training

Production Systems:

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Monitor Migration
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Administrative Training
Customer Training

Relocation:

Review and Advise in Mover Contract Negotiations
Source and Procure Components
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Medical Facilities Consulting and Engineering Projects

Sisters of Mercy Health Systems – St. Louis, MO (8 Month Project – Staff of 7):

Background:

Sisters of Mercy, an International caretaker and healthcare provider commissioned a infrastructure standards program to ensure continuity and consistency between all of their facilities.

Program Management:

Provided primary consultative and technical support, including:

- Strategic Business Planning
- Strategic Technical Planning
- Analysis and Inventory of Existing Systems and Facilities
- Business and Technical Requirements Identification and Documentation
- Life-Cycle Project Management

Engineering and Consulting:

Provided lead engineering and design consulting, including:

High-Level Design:

Facilities Renovation:

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LAN / WAN Systems:

- Standards Specifications
- Topology Architecture
- Component Specifications, RFP Management and Review
- Connectivity Specifications

Sisters of Mercy Health Center – Laredo, TX (20 Month Project – Staff of 35):

Background:

SoM-Laredo, the oldest medical facilities in southern Texas, invested in a 1,500% expansion project to build a new 650,000-square foot complex - located on a 50-acre site – Primary hosts consisting of Novell, Sun, DEC.

Program Management:

Provided primary consultative and technical support, including:

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Medical Facilities Consulting and Engineering Projects

Strategic Business Planning
Strategic Technical Planning
Analysis and Inventory of Existing Systems and Facilities
Business and Technical Requirements Identification and Documentation
Demolition and Construction Oversight
Life-Cycle Project Management

Engineering and Consulting:

Provided lead engineering and design consulting, including:

High-Level Design:

Facilities Renovation:

Architecture Strategic Planning
Architecture Design, Specification and Review
Demolition and Decommission Planning
Computer Room Design
MDF and IDF Room Design
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Physical Cable-Plant:

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Production Systems:

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Detailed-Level Design:

Facilities Renovation:

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Physical Locations Specifications
Architectural Plans Review

Physical Cable-Plant:

Naming and Numbering Specifications

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Catholic Health Care West – San Francisco, CA (6 Month Project – Staff of 3):

Background:

Catholic Health Care West, encompasses a 14 Hospital Network in the Seven (7) Western US State area – Headquarter in San Francisco, CA - Commissioned a infrastructure standards program to ensure continuity and consistency between all of their facilities.

Program Management:

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- Connectivity Specifications

HealthOne – Denver, CO (3 Month Project – Staff of 4):

Background:

HealthOne, one of the countries largest healthcare provider, Based out of Denver, CO, commissioned a infrastructure standards program to ensure continuity and consistency between all of their facilities.

Program Management:

Provided primary consultative and technical support, including:

- Strategic Business Planning
- Strategic Technical Planning
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Engineering and Consulting:

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Medical Facilities Consulting and Engineering Projects

Provided lead engineering and design consulting, including:

High-Level Design:

LAN / WAN Systems:

Standards Specifications

Topology Architecture

Component Specifications, RFP Management and Review

Connectivity Specifications

Centura Health – Denver, CO (Strategic Planning Project – Staff of 5):

Background:

Centura Health - Commissioned an infrastructure standards program to ensure continuity and consistency between all of their facilities.

Program Highlights:

Provided guidance and direction consulting, including:

Network Hardware Replacement

Wide Area Connectivity

Local Area Network Problem Resolution

Service Provider Trouble Shooting Procedures

2nd Tier Technical for Network and Infrastructure

Integrated Cabling Testing and Design Enhancement

Moves, Adds and Changes

Network Monitoring

Expansion Design and Procurement

Network Management Procedures

Data Archiving Storage Backup and Recovery

Report Generation Standards

Software and Hardware Installations and Upgrades

Data File Restructuring

Network Access Device Standards and Configurations

Preventative Maintenance and Services Processes