



U.S. Department of Veterans Affairs

Office of Information and Technology

IT Operations and Services

Solution Delivery

COMMUNITY BASED OUTPATIENT CLINIC (CBOC)
INSIDE PLANT
INFORMATION TRANSPORT SYSTEMS SPECIFICATIONS

DEVELOPED BY:
-- DATA CENTER ENGINEERING--DATA CENTER & CLOUD ENGINEERING

Department of Veterans Affairs

IT Operations and Services Solution Delivery



PROJECT:

CBOC ITS SPECIFICATIONS

PROJECT No:

36C10F18R0566 Portland, ME

MARK	DATE	DESCRIPTION
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FILE: CBOC INSIDE PLANT ITS SPEC V.

DRAWN BY: Kevin Grze

CHECKED BY: Michael Julian, R.C.

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SHEET TITLE

COVER PAGE

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SHEET: 1 OF 1

FRONT MATTER

PURPOSE:

THIS DRAWING SET REPRESENTS THE COMPUTING AND PASSIVE INFRASTRUCTURE DESIGN AND RACK ELEVATIONS FOR A GENERIC HEALHCARE FACILITY EQUIPMENT ROOM (ER) AND A GENERIC TELECOMMUNICATION ROOM (TR). UNLESS NOTED OTHERWISE, ACTIVE EQUIPMENT WILL BE FURNISHED AND INSTALLED BY VA OR VA CONTRACTORS. THE STRUCTURED CABLING PLANT INSTALLERS WILL FURNISH AND INSTALL PASSIVE CABLE PLANT INFRASTRUCTURE INCLUDING HORIZONTAL CABLE MANAGERS, UTP AND FO HORIZONTAL CABLE, PATCH PANELS, PATHWAY RACKS, FIBER DISTRIBUTION CABINETS AND FIBER CASSETTES.

DESIGN OBJECTIVES

THIS DESIGN IS HIGHLY MODULAR. 1. MODULARITY:

THIS DESIGN IS FLEXIBLE TO ACCOMMODATE CHANGES TO FLOOR PLANS. 2. FLEXIBLE:

3.CABLE PLANT: UTP CATEGORY 6A CABLE PLANT WILL SUPPORT 10 GIGABIT ETHERNET.

FIBER PLANT WILL UTILIZE LASER ENHANCED OM4 40 GbE RATED 50/125

MULTIMODE.

THIS DRAWING IS SCALED TO 11X17 FORMAT.

DRAWING TYPE DEFINITIONS

TO - Campus or Site Plans - Exterior Pathways and Inter-Building Backbones

T1 - Layout of complete building per floor - Serving Zone Boundaries, Backbone Systems, and Horizontal Pathways

T2 - Serving Zones Drawings - Drop Locations and Cable ID's

T3 - Communication Equipment Rooms - Plan Views - Tech and AMEP / Elevations - Racks and Walls Elevations

T4 - Typical Detail Drawings - Faceplate Labeling, Firestopping, ADA, Safety, DOT, etc...

T5 - Schedules (Cabling and Equipment Spreadsheets) for cutovers

Standard or Document Description

ANSI/TIA-606-C. Administration Standard for Telecommunications Infrastructure

ANSI/TIA-606-B-1, Administration Standard for Telecommunications Infrastructure Addendum 1- Automated Infrastructure Management Systems - Addendum to ANSI/TIA-606-B

ANSI/TIA-607-C, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises

ANSI/TIA-607-C-1, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises - Addendum to TIA-607-C

ANSI/TIA-942-A, Telecommunications Infrastructure Standard for Data Centers

ANSI/TIA-942-A-1, Telecommunications Infrastructure Standard for Data Centers Addendum 1- Cabling Guidelines for Data Center Fabrics -Addendum to TIA-942-A

ANSI/TIA-1179, Healthcare Facility Telecommunications Infrastructure

BICSI 002, Data Center Design and Implementation Best Practices

BICSI ITSIMM, Information Technology Systems Installation Methods Manual (ITSIMM) - 7th Edition

BICSI/NECA 568, Standard for Installing Commercial Building Telecommunications Cabling

BICSI/NECA 607 Standard for Telecommunications Bonding and Grounding Planning and Installation Methods for Commercial Buildings 2011

CSI MASTERFORMAT ™ 2004 EDITION NUMBERS & TITLES Construction Specifications Institute (CSI)

NFPA 70, National Electrical Code

NFPA 75, Standard for the Fire Protection of Information Technology Equipment

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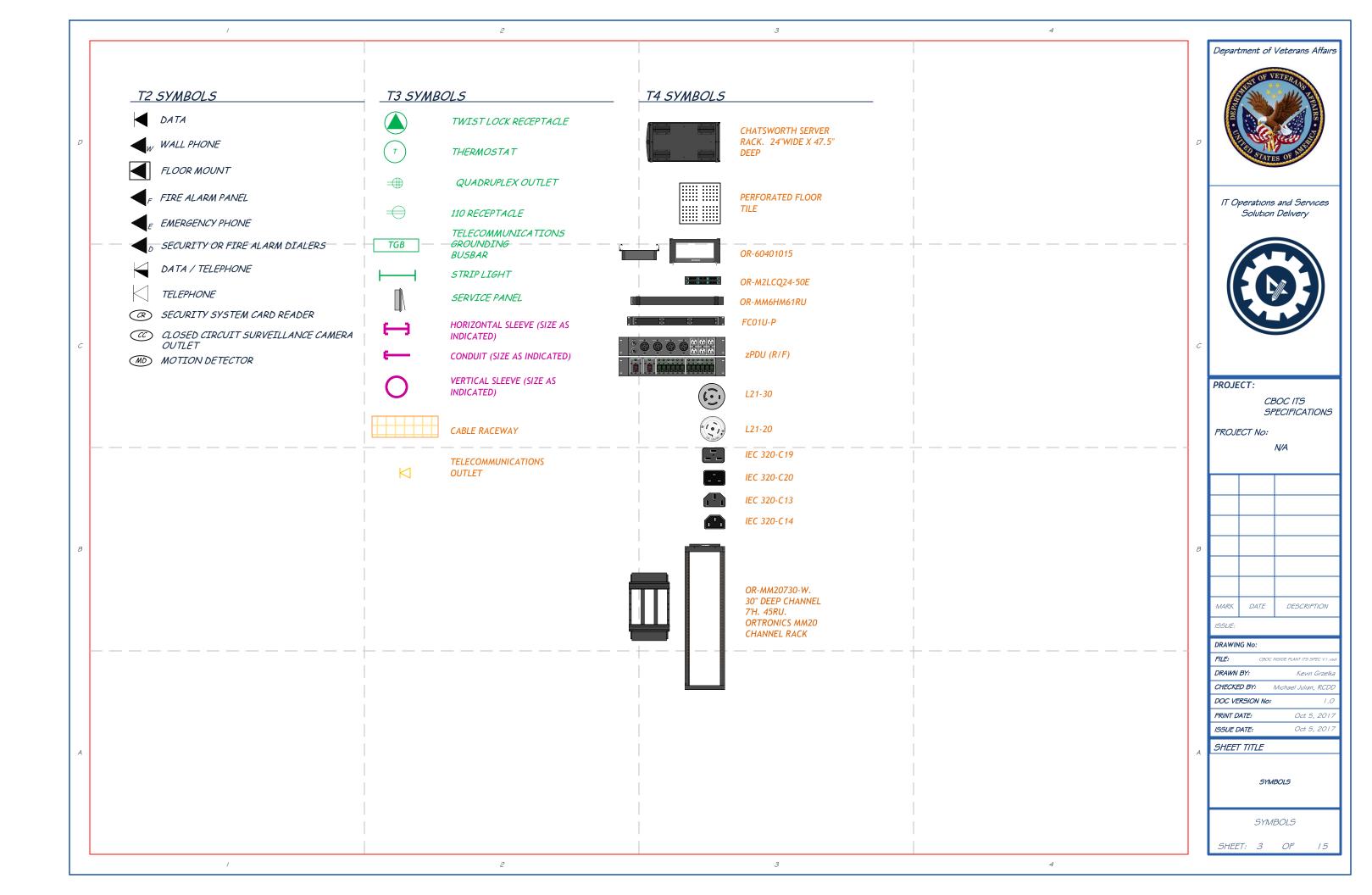
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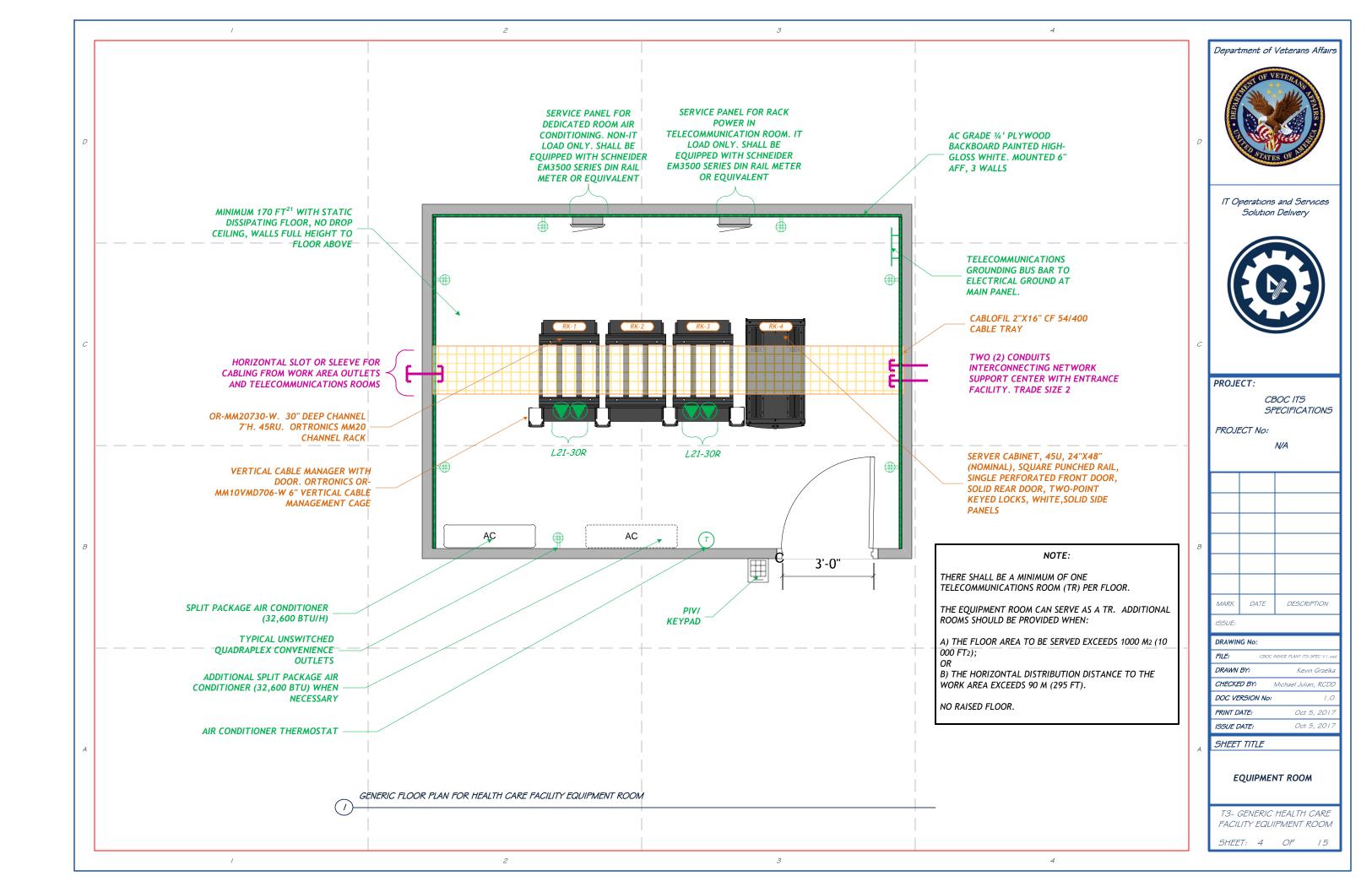
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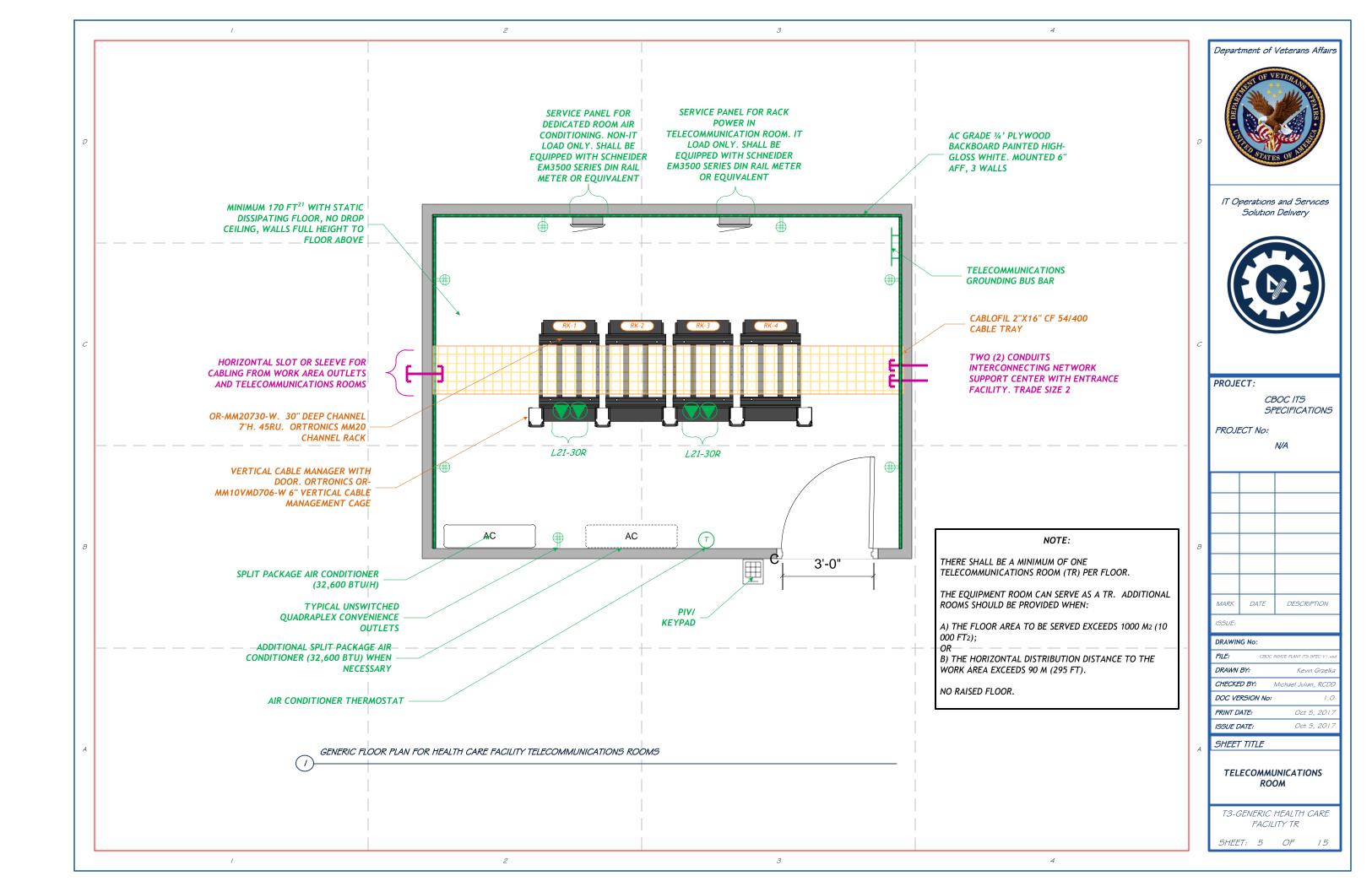
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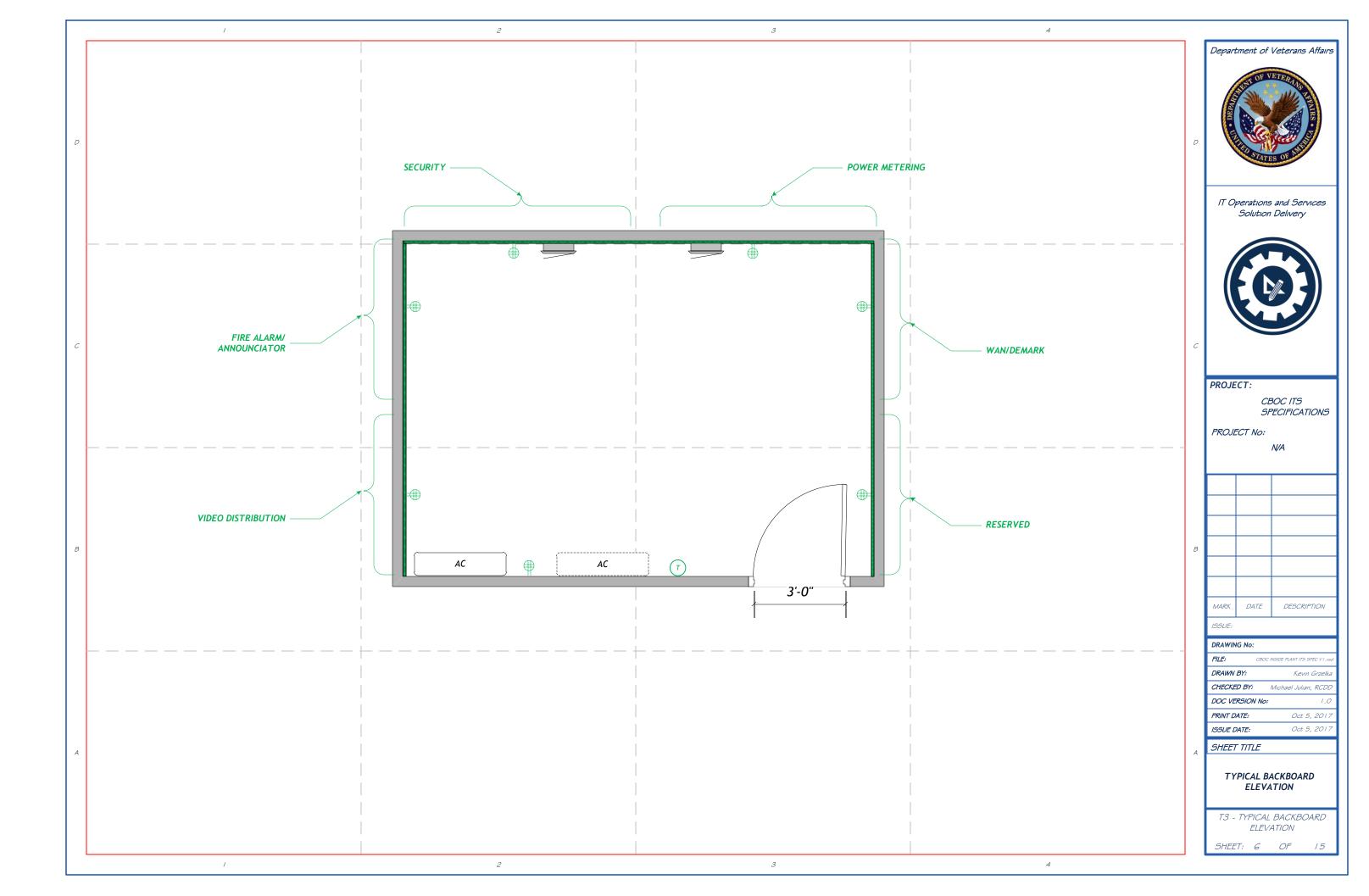
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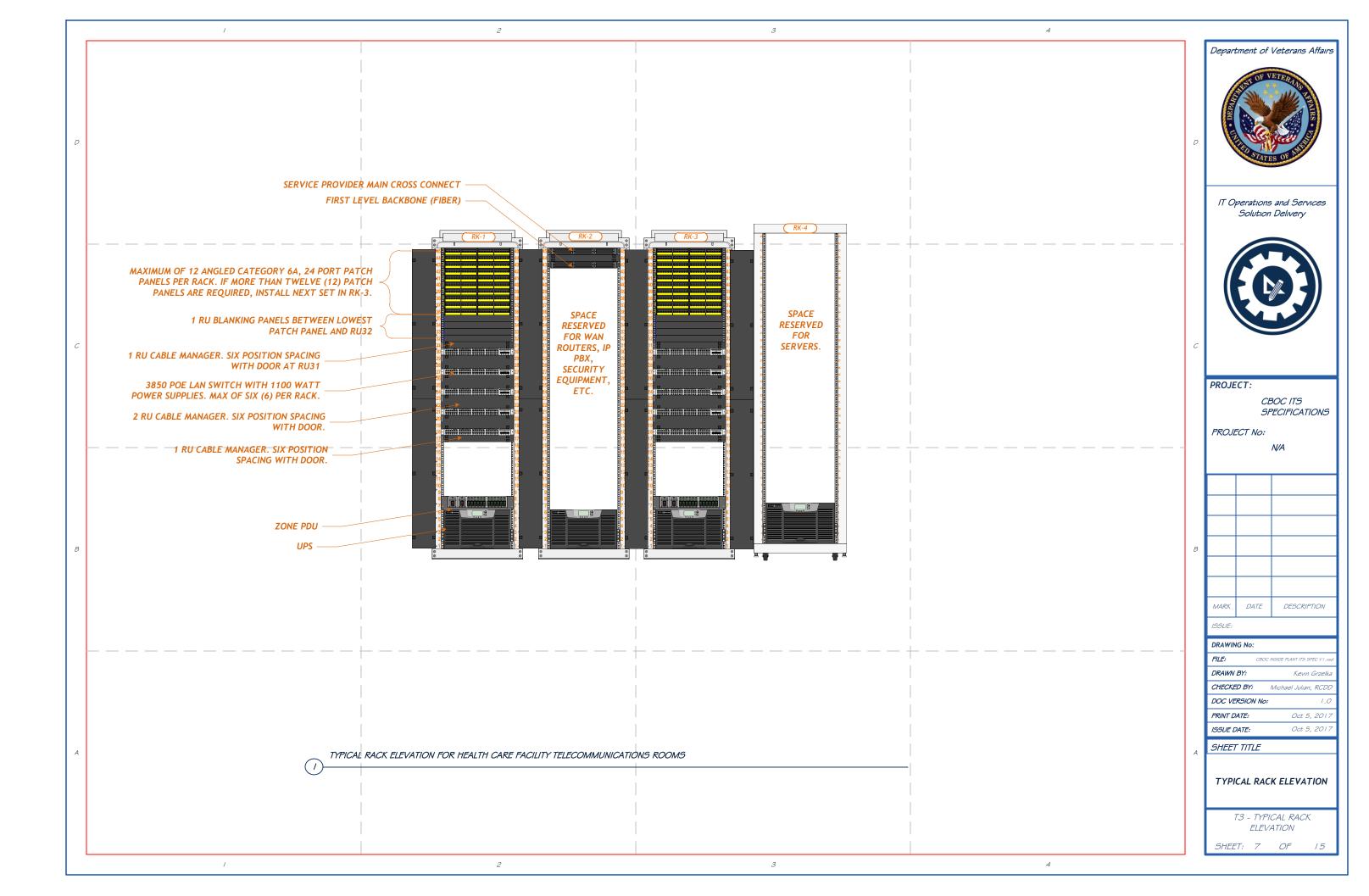
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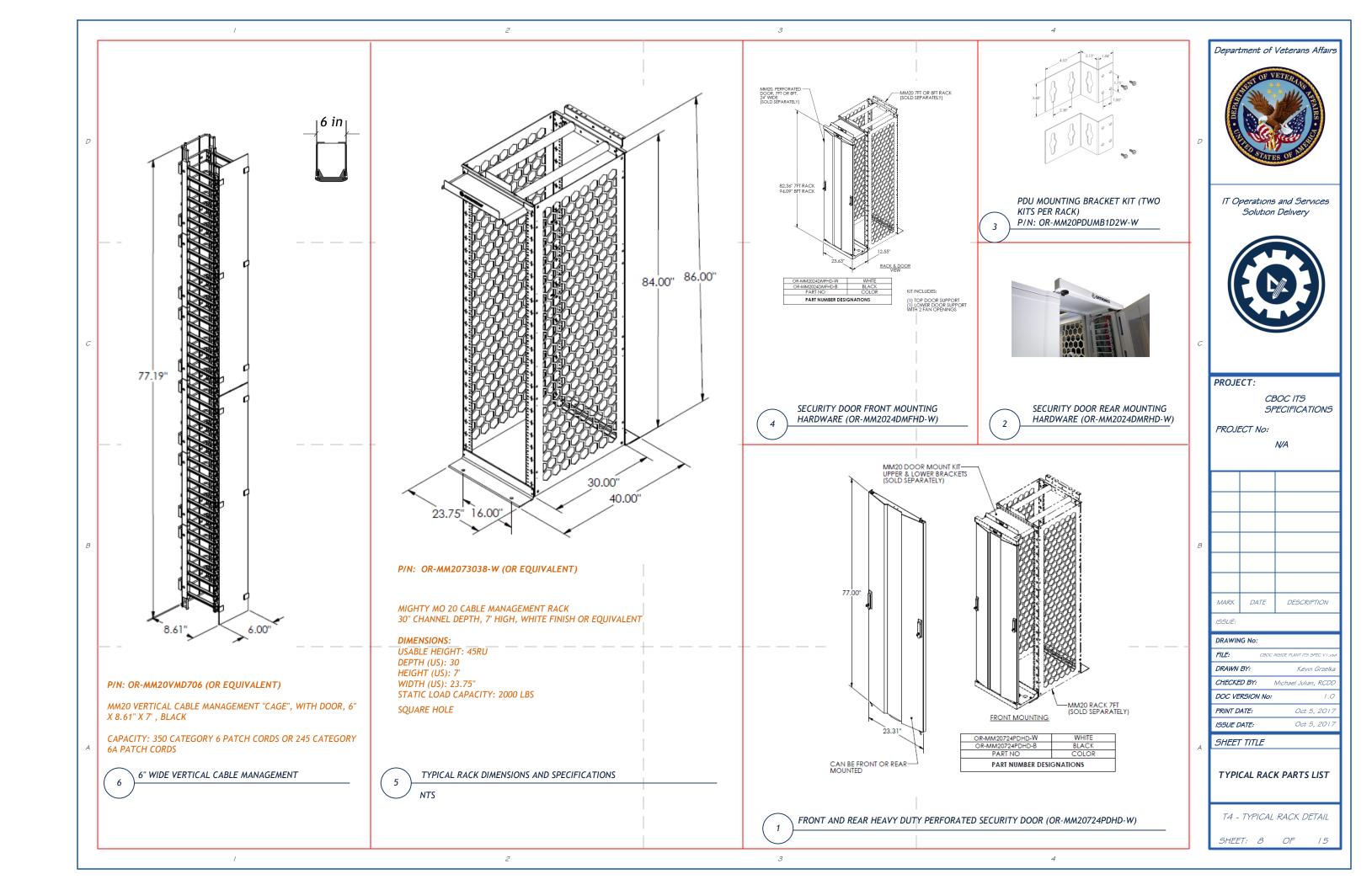


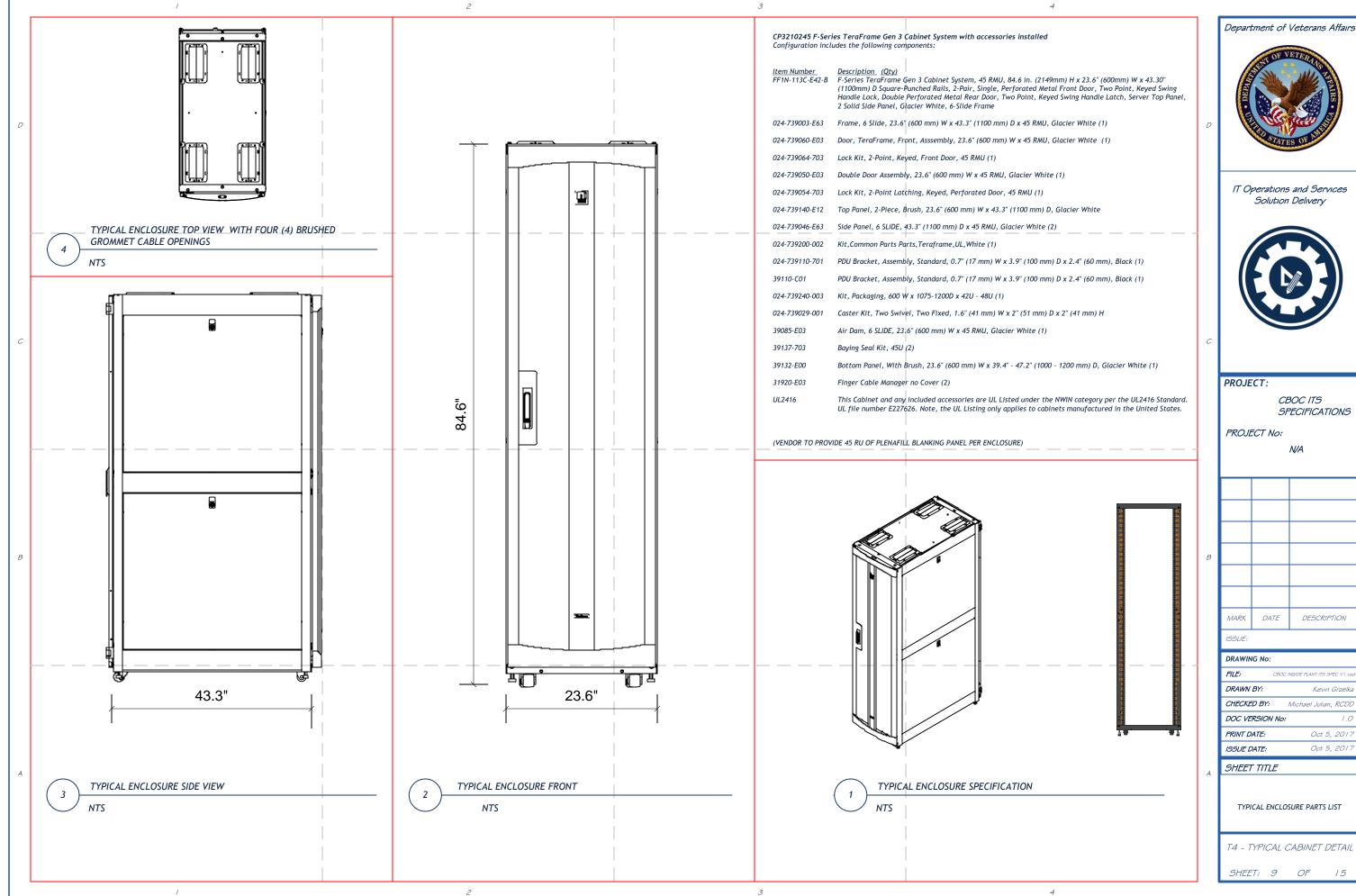






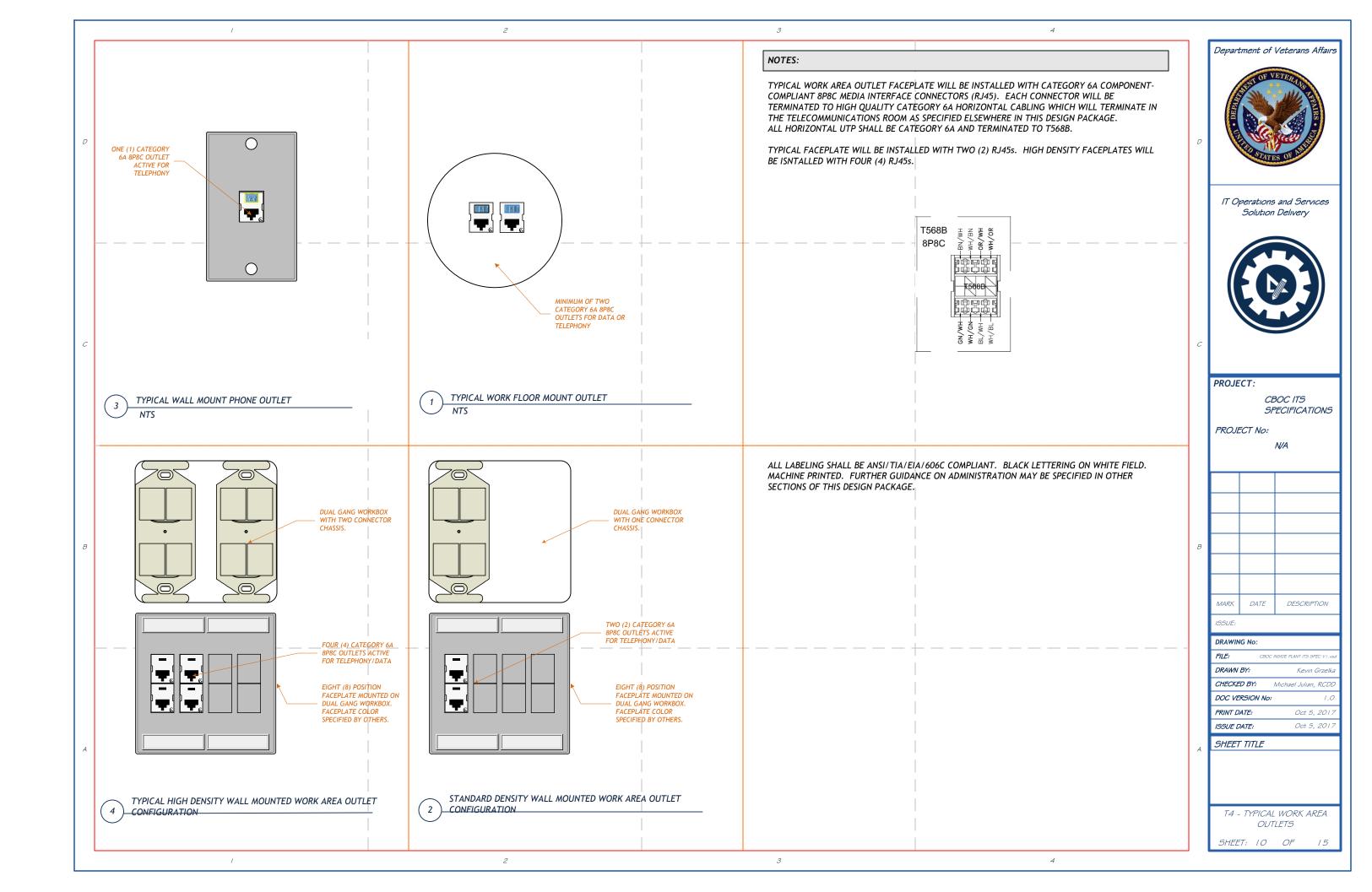


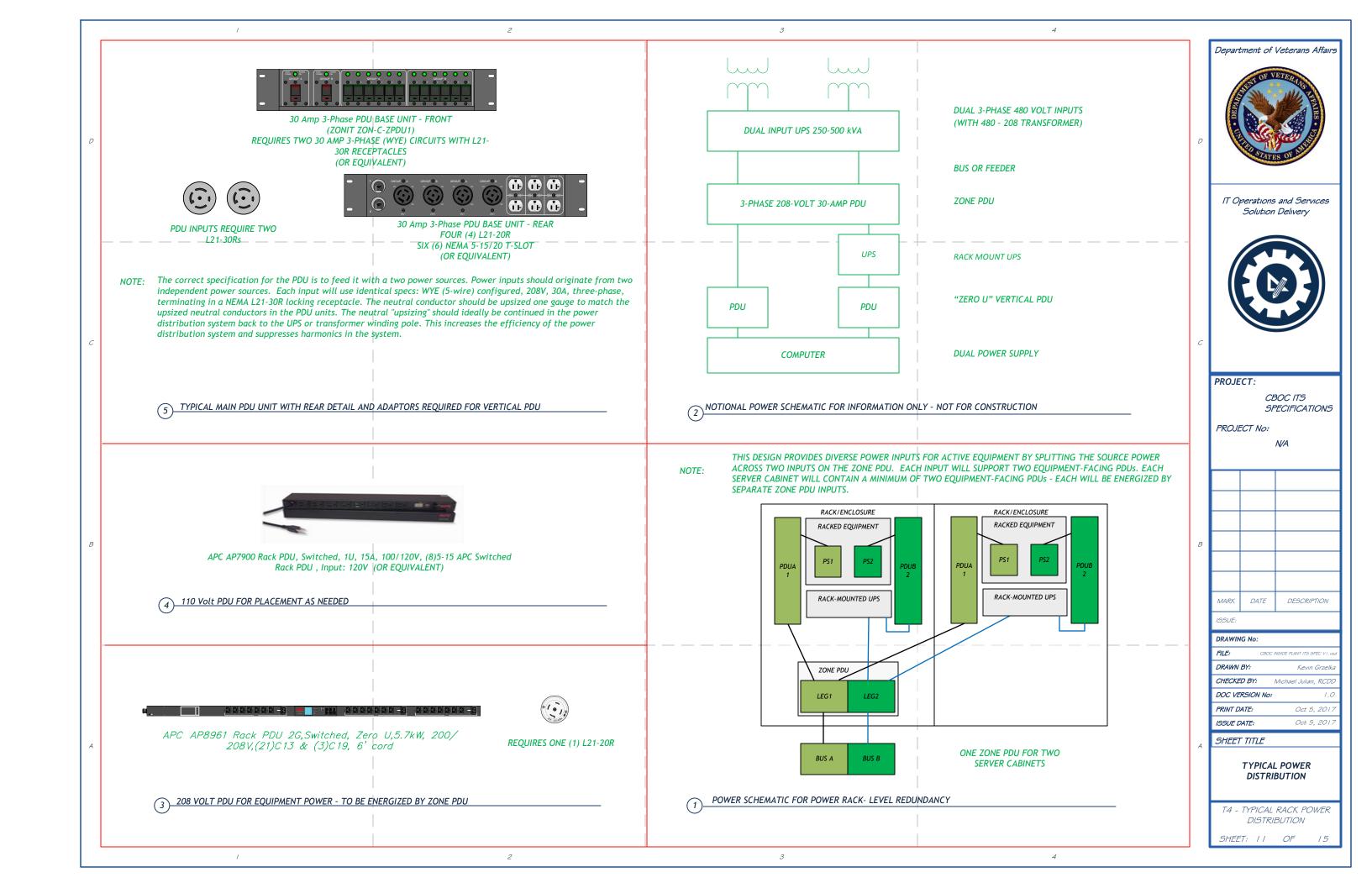


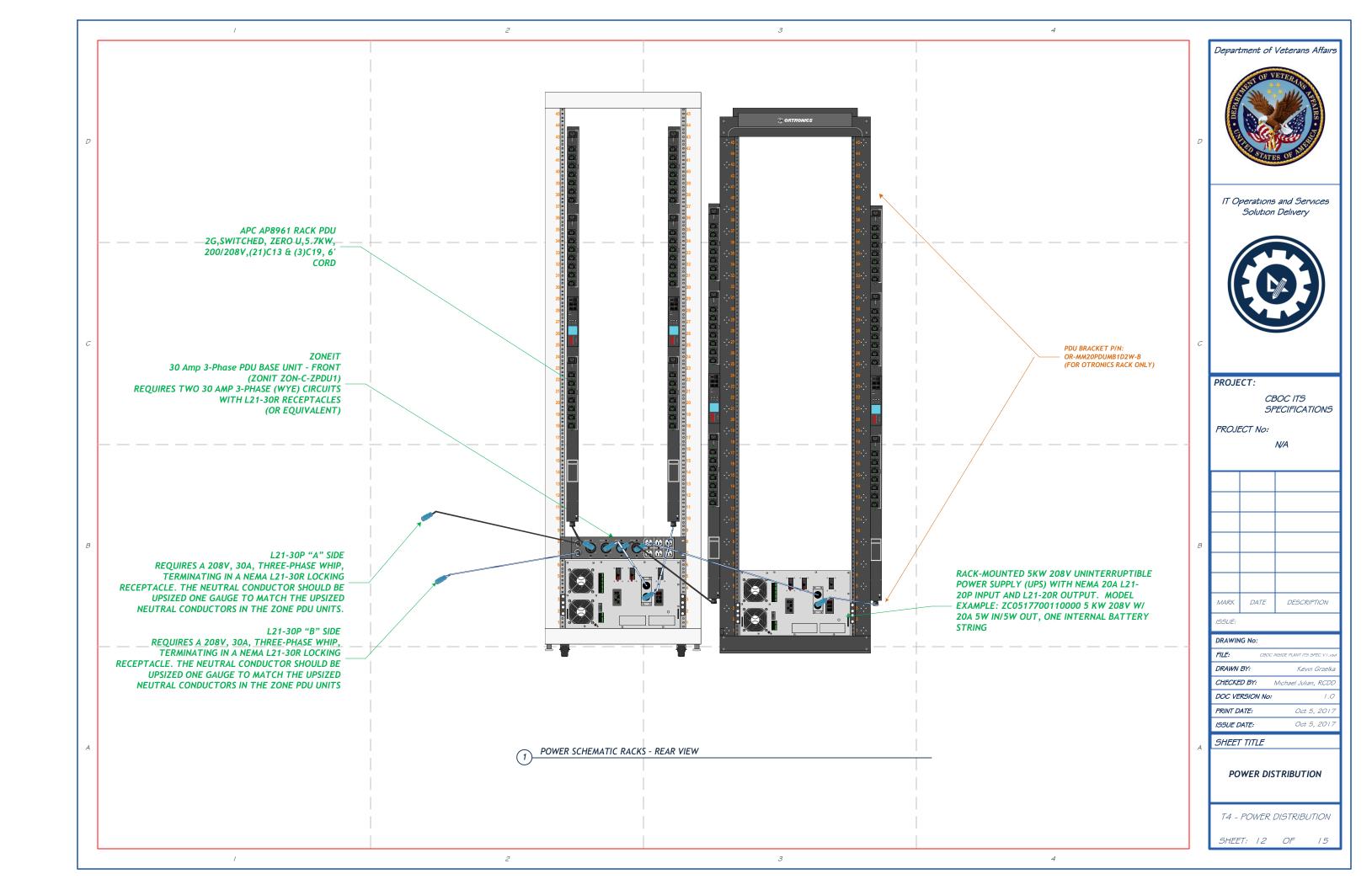


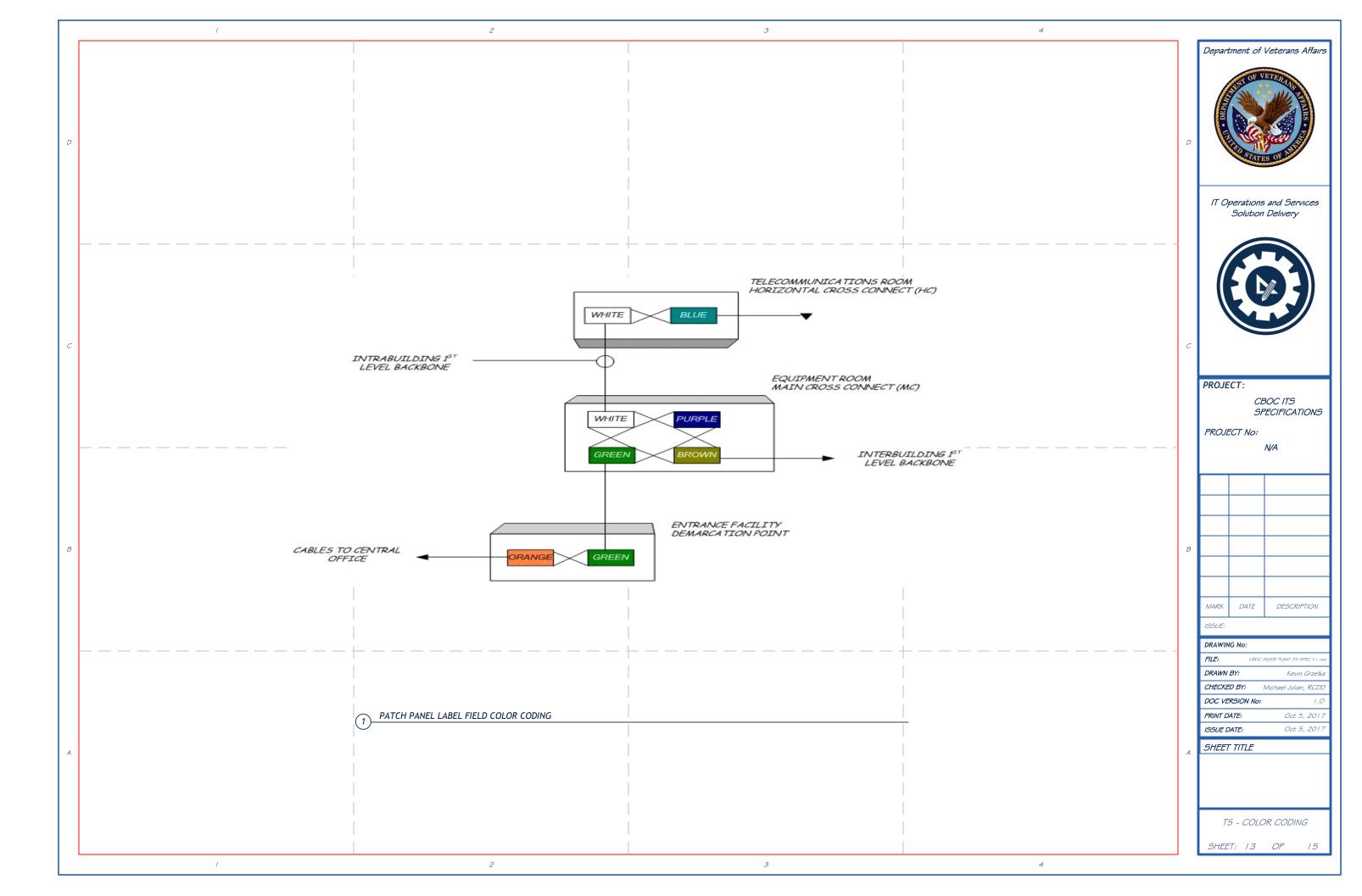


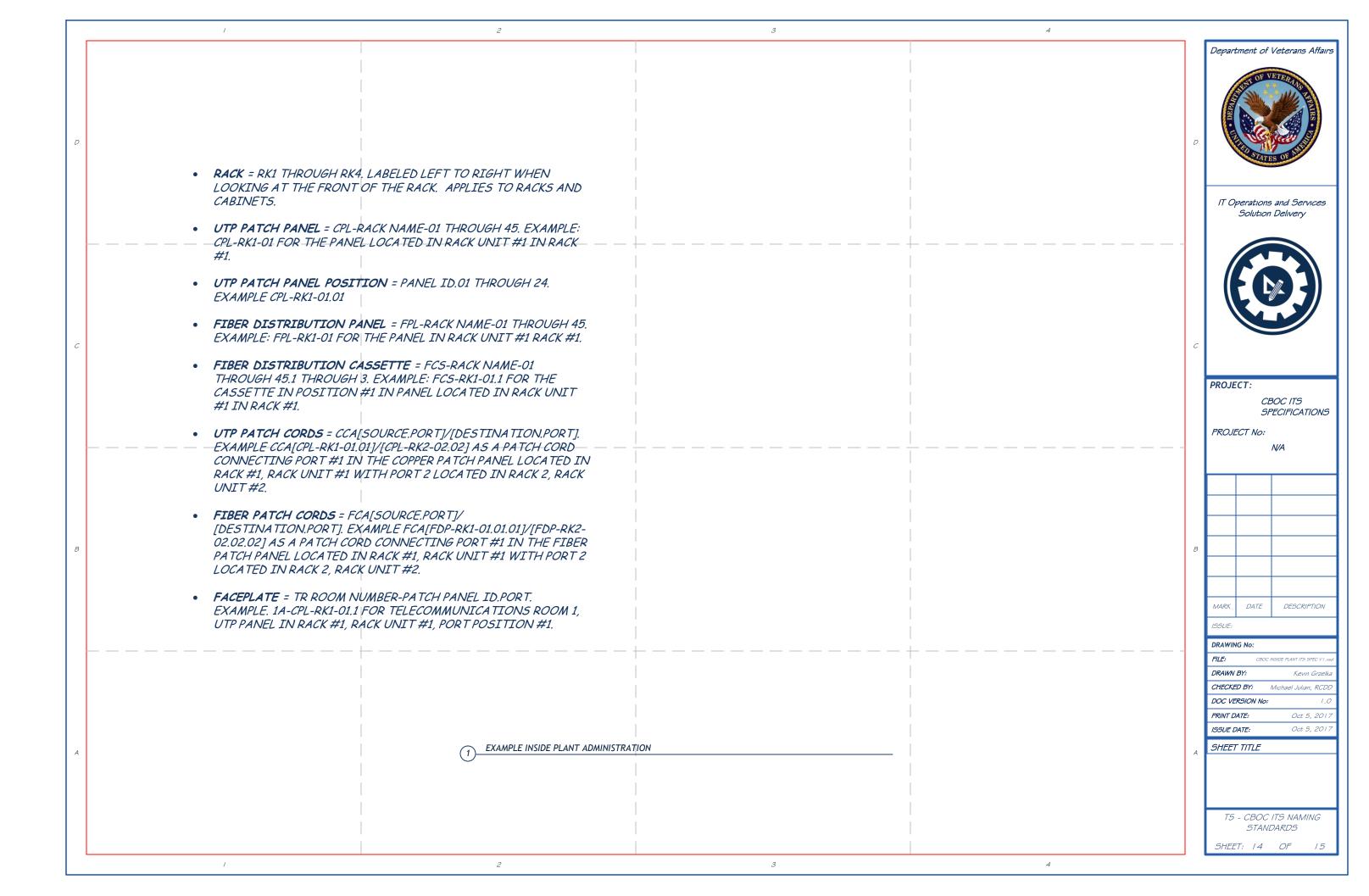












ID	PRIMARY ATTRIBUTE	SECONDARY ATTRIBUTE	SPECIFICATION
		PERFORMANCE CATEGORY	CATEGORY 6A (10 GBE)
		POSITION COUNT	24 (4 SIX-PORT MODULES)
1	COPPER PATCH PANELS	FORM FACTOR	ANGLED
		SIZE	ONE RACK UNIT
		COLOR CODING	BLACK
		CASSETTE CAPACITY	24 STRAND (TWO 12-STRAND MULTI-FIBER PUSH ON (MPO))
		CASSETTE USER INTERFACES	LC QUAD CONNECTORS
2	FIBER DISTRIBUTION CASSETTES	CASSETTE BACKBONE INTERFACES	МРО
		PERFORMANCE CHARACTERISTICS	OM4 LASER ENHANCED 40 GBE 50/125 MULTIMODE
		FORM FACTOR	ONE (1) RU
		PERFORMANCE CATEGORY	CATEGORY 6A (10 GBE)
		PERFORMANCE SPECIFICATIONS	MEETS OR EXCEEDS TIA-EIA-568-C.2-10, TSB-155.
3	UTP (HORIZONTAL AND FIRST LEVEL BACKBONE)	JACKET COLOR	BLUE (HORIZONTAL), WHITE (1 ST LEVEL BACKBONE)
		SIZE	ONE RACK UNIT
		COLOR CODING	BLACK
		PERFORMANCE CATEGORY	OM4 LASER ENHANCED TO 40 GIGABIT ETHERNET (GBE
		PERFORMANCE SPECIFICATIONS	LASER OPTIMIZED 50/125 MM FIBERS WITH EFFECTIVE MODA BANDWIDTH OF AT LEAST 4,700 MHZ·KM AT 850 NM
		MODE	MULTIMODE
4	FIBER (HORIZONTAL AND FIRST LEVEL BACKBONE)	JACKET COLOR	AQUA
		MEDIA CONNECTOR	PRE-TERMINATED WITH MPO, TYPE A
		STRAND COUNT	12
		BUNDLING	LOOSE TUBE
		PERFORMANCE CATEGORY	CATEGORY 6A, 26-GAUGE, STRANDED
		PERFORMANCE SPECIFICATIONS	CENTER TUNED TO HORIZONTAL MEDIA
5	UTP PATCH CORDS	JACKET COLOR	BLUE
		TERMINATION METHOD	FACTORY PRE-TERMINATED
		PERFORMANCE CATEGORY	OM4 LASER ENHANCED TO 40 GIGABIT ETHERNET (GBE
		PERFORMANCE SPECIFICATIONS	OM4
6	FIBER PATCH CORDS	MODE	MULTIMODE
		JACKET COLOR	AQUA
		MEDIA CONNECTOR	PRE-TERMINATED WITH DUPLEX LC
	1		

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T5 - SPECIFICATIONS

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