

Precision Valley Communications

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November 1, 2018

Regarding; FCC Auction 903 Certification of Network Design for the Westfield Gas & Electric Light Department Consortium

To FCC Auction Staff,

I Alan D. Kinney, PE of Precision Valley Communications (PVC) have reviewed the network design plan for Census Block Groups in which Westfield Gas & Electric Department Consortium is planning to deploy Internet services as the successful bidder. The Census Block Groups reviewed were:

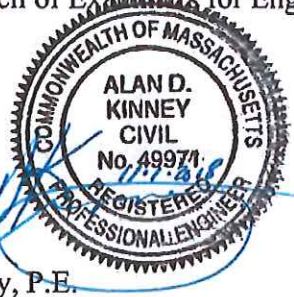
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MA-011-0401003
MA-011-0401002
MA-015-8227002
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MA-003-9334002
MA-015-8227001
MA-027-7022002
MA-011-0406002
MA-003-9322001
MA-011-0404003
MA-003-9314001

After careful review of the locations within these Census Block Groups, I confirm that if completed as designed, in excess of 95% of the locations state-wide will have service available as described in the application.

I offer the following credentials as qualifications and expertise in this matter;
Registered Professional Civil Engineer, Commonwealth of Massachusetts, License #:
49971

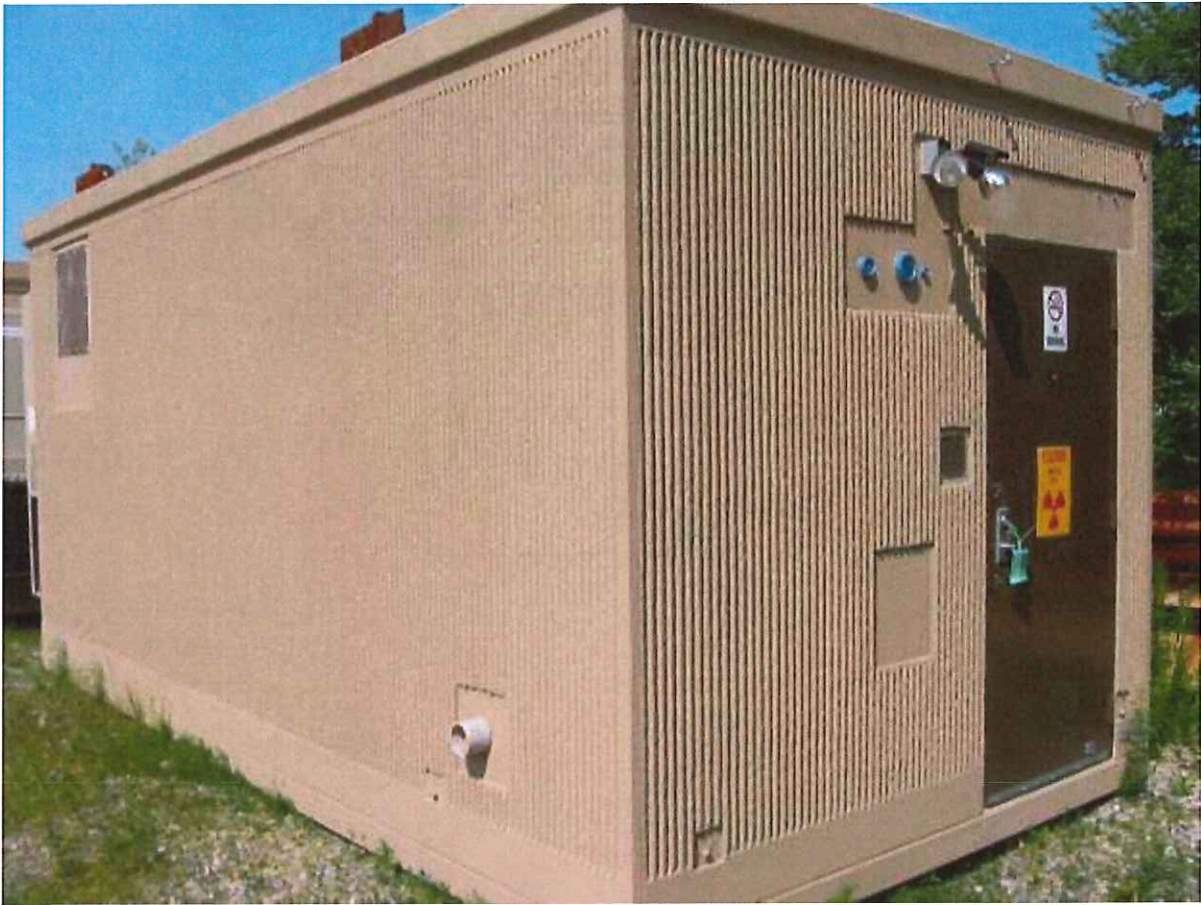
National Council of Examiners for Engineering and Surveying, No. 48837

Sincerely,

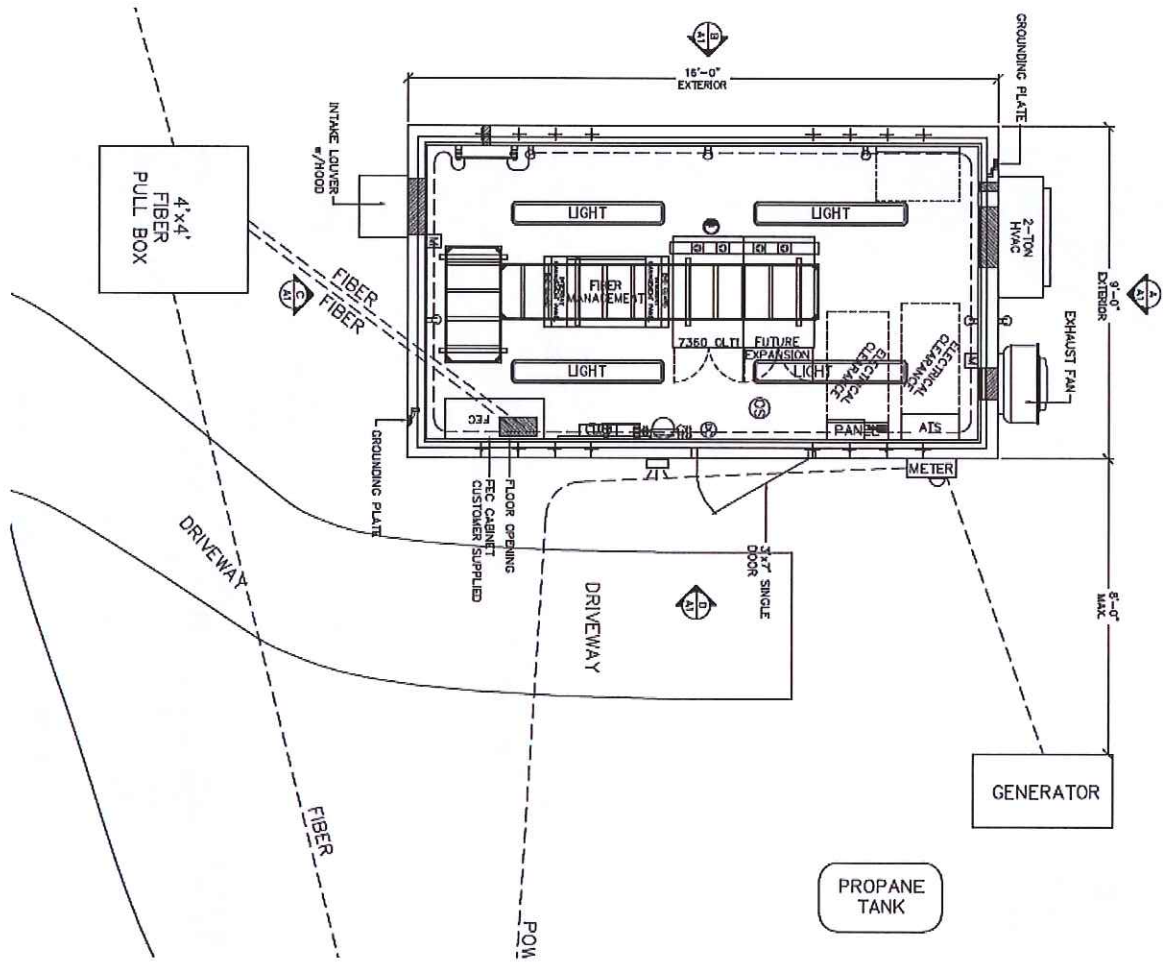


Alan D. Kinney, P.E.

Telecommunications Centralized Town Hut



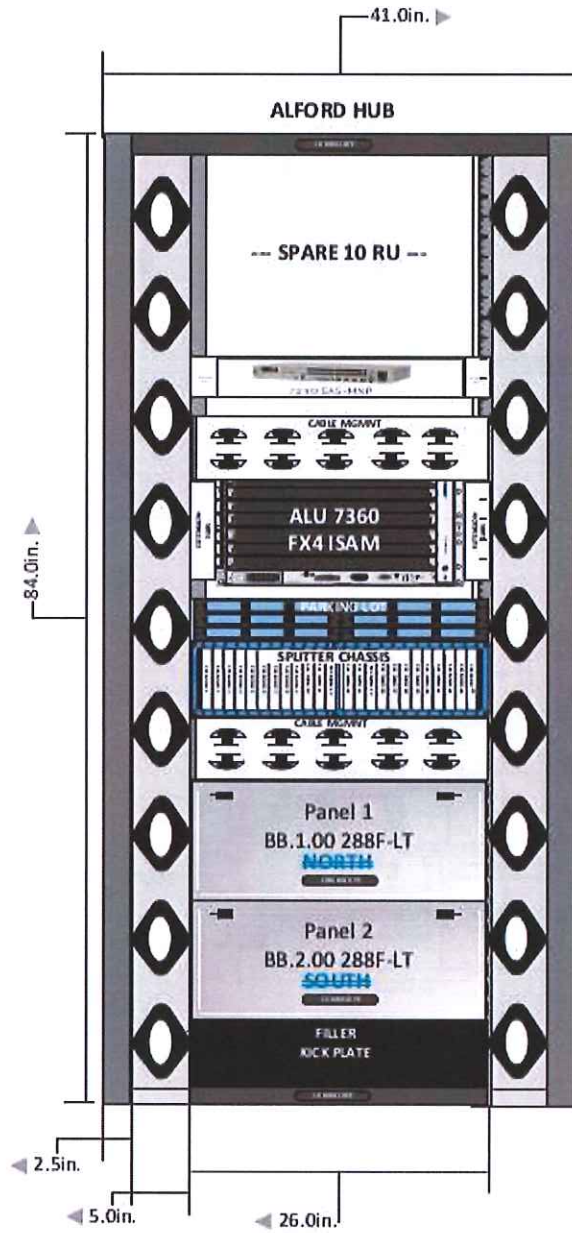
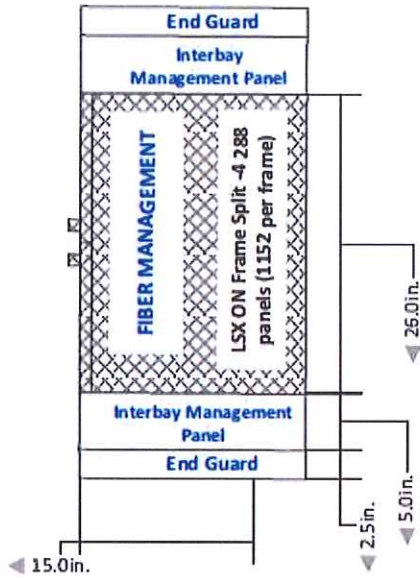
Typical site layout



RACK CONFIGURATION FOR FTTH_ALFORD,MA



ALFORD, MA HUB	
Fiber Management	
Drawing:	JDP
Date:	12-11-2017
Rev:	
Rev:	



Hut Primary Active Component list

Nokia 7360 Optical Line Terminal

Site	Description of Terminal
	(1) 7360 ISAM Redundant FX-16 Starter Kit w/ 16-PON Card
Identifier	Descriptions
	Equipment - Bay Mounting
3HG01263AA	Redundant FX-16 Starter Kit w/ 16-PON Card. Each kit includes:
3FE65209BA	7360 ISAM FX-16 shelf (ANSI variant), 48V only, excl. fan unit
3FE66546AA	ISAM FD/FX Intelligent Fan with Dustfilter, 48V only (for FX-16)
3FE68285AA	FX-16 Baffle Kit
3FE61087FA	Fiber Routing Kit for FX-16
3FE53701BD	7360 ISAM FX 480Gbps NT with ANSI T1 BITS, Synchronous Ethernet and IEEE1588 for high density/high bandwidth applications, without SFPs (ANSI variant)
3FE68954AB	FGLT-B, ISAM FX 16port GPON Line board
3FE65651BA	Blank Filler Panel for NTIO and LT, no pre-cabling
3FE62600DA	SFP+ 1310 nm 0°C to + 70°C 10 km 10 dB Duplex LC
3FE53441AC	ISAM FD/FX GPON SFP OLT (I-temp) Class B+
3FE68295AA	Drip Tray for 23" Rack
3HE03065BA	Valere External AC Rectifier Bundle. Includes: Redundant AC power for SR-7, ESS-7 with AC split shelf (3HE02786BA x1), AC power supplies (3HE02787AA x4), status cable (3HE04519AA x1), DC lugs and blunt-cut AC International power cords(3HE02946AA x4), user must supply DC power cables, chassis lugs and AC wall connectors.
	7360 ISAM FX Optical Line Cards
3FE68954AB	FGLT-B, ISAM FX 16port GPON Line board.
	7360 ISAM FX SFP Modules
	GigE SFPs
3FE25774AA	SFP Pluggable Optical Module, GE LX SM 1310nm, -40C to +85C, Duplex LC connector, 10km (11dB)
	GPON SFPs
3FE53441CC	ISAM FD/FX GPON SFP OLT (I-temp) Class B+ with OTDR

Nokia 7210 Layer 2 Transport device

Site	Description of Terminal
	(1) 7210 SAS-T 12F 10T 4XFP AC Units (Redundant Power Supplies)
Identifier	Descriptions
	Equipment - Bay Mounting
3HE08364AA	SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; (1) 7210 SAS AC Power supply, (1) Fan Tray, (10) 10/100/1000 TX + Accepts(12) 100/1000 SFP + (4) XFP(s) with NAR Power Cord
3HE04414AA	PS - 7210 SAS E/M/T AC Power Supply (Non ETR)
3HE09915AA	ACC-7210 SAS-E/M/T 19" rack mount
3HE00028CA	SFP - GIGE LX SFP OPT MOD - LC (1310 nm) SFP's
3HE09507BA	OS - 7210 SAS-T Release 8.x Software

