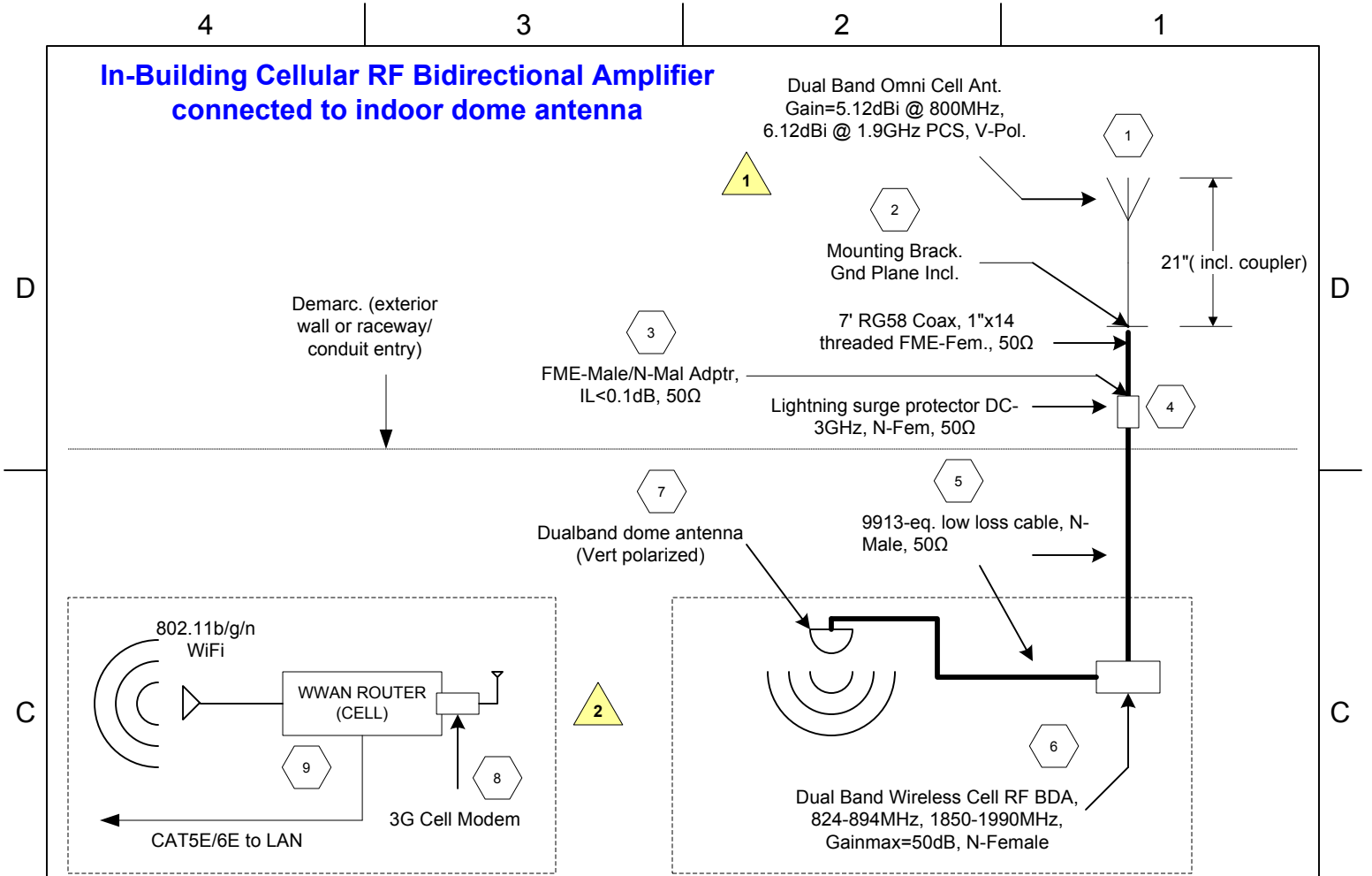


# In-Building Cellular RF Bidirectional Amplifier connected to indoor dome antenna



## Bill of Materials (BOM)

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	CL301130	Dual band cellular omni antenna (incl 7' RG58 w/ FME-Fem)
2	1	CL901119	Omni ant. Mount Kit
3	1	CL97xxx	FME-Male/N-Mal Adaptr, IL<0.1dB
4	1	CL859902	Lightning surge protector DC-3GHz, IL<0.2dB
5	2	CL951120	10' 9913-eq. Low loss coaxial cable, N-male, Att<0.1dB
6	1	CL801245	50dB Wireless dualband Amp. (N-female)
7	1	CL301121	Dualband Dome Antenna, Vert Pol, N-fem
8	1	CLS720	Sprint Novatel S720 EVDO RevA Modem
9	1	CLLC2-411	Proxicast LAN Cell-2 WWAN 3G Cell Router

- 1** Maintain 20FT max separation between outside antenna and inside antenna unless sufficient RF shielding exists
- 2** Max distance between dome and cellphone/ datacard is limited by
  - i) outside RSS
  - ii) coaxial cable length
 E.g for 10ft cables and -90dBm at outside gives ~50ft. Less if through walls!!!



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DRAWN BY: RT (Engr)  
APPROVED BY:

FREQ(s): 800MHz SMR, 2.4GHz ISM, 1.9 GHz PCS

Generic WWAN, RF-BDA Conn

Direct Conn Dualband Cellular Amp & Omni Ant Generic Conn.

SIZE	FSCM NO	DWG NO	REV
SCALE	NO SCALE	BW-00000000	1A
FRN: 0018086041	SHEET	1 OF 1	