

MARC/DECT FIELD DAY 2015

20 MAY 2015

Briefing #1



Spreadsheet & Schedule Updates

- Please check your name, call sign, phone & email address
- Please indicate the modes you are interested in operating (SSB-CW-DIG-SAT)
- Please check your general availability (ALL-AM-PM)
- Please verify what supplies/equipment you are volunteering

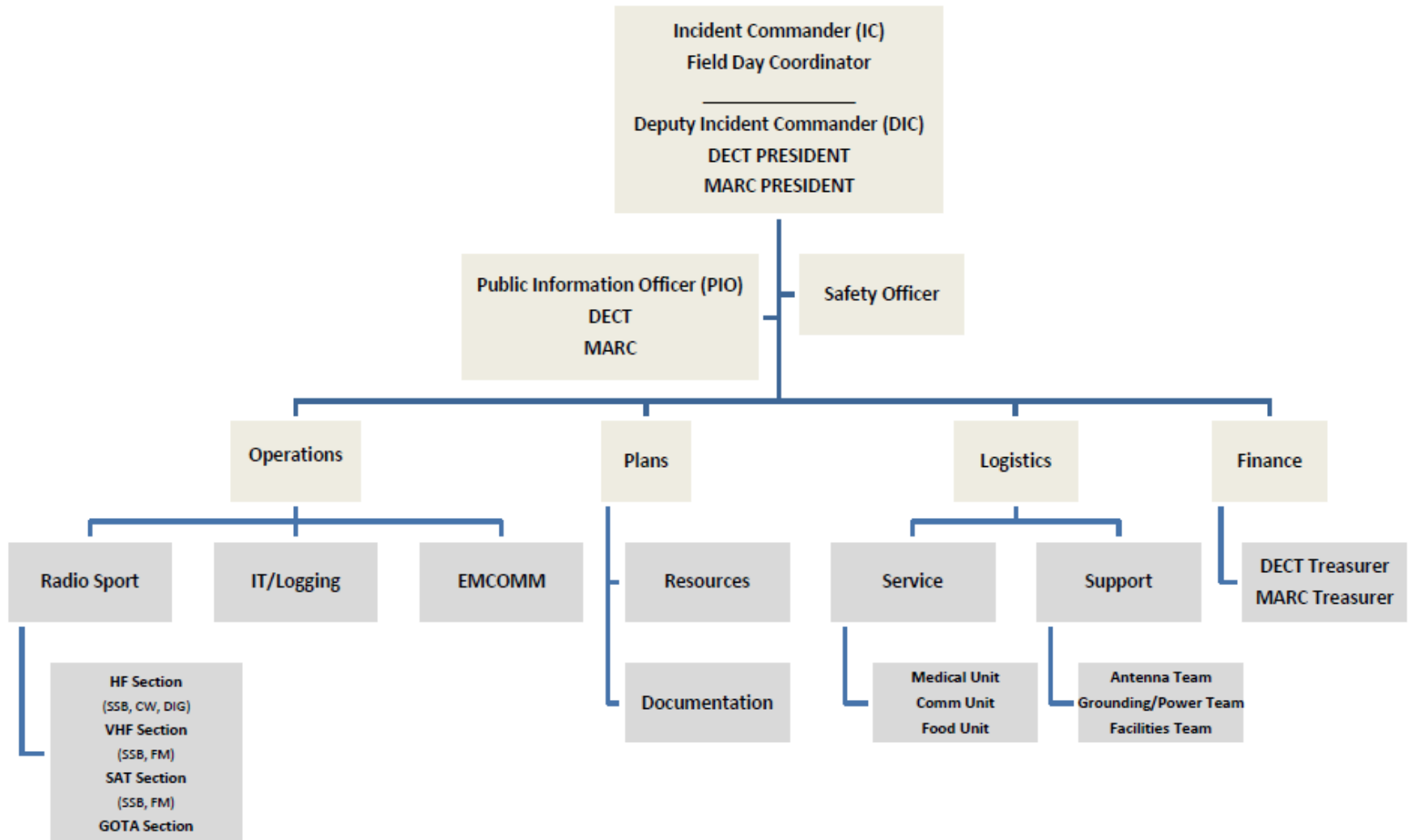
Objectives

- **HAVE FUN!** While promoting the art and science of Amateur Radio through public outreach and education.
- **HAVE FUN!** By promoting Amateur Radio as a professional service supporting the community and emergency communication.
- **HAVE FUN!** By showcasing Amateur Radio as a Radiosport through contesting activities.

Public Relations/Media

- Emails Out
- All Letters Out By Weekend
- Need Scouting Contacts
- Pending media follow-up
 - Gazette
 - Everything Damascus
 - MV Patch
- We have/will notified
 - Governor/Lt. Governor
 - Senators/Reps
 - State Delegates
 - County Exec/Council
 - County School Board
 - ARRL-MDC Section
 - Media
 - American Legion Post

FIELD DAY 2015



WX Forecast

Temperature

- **Saturday – 27 June**

- High 84/96
- Low 63/51

- **Sunday – 28 June**

- High 87/91
- Low 64/60

Sun & Moon

- **Saturday – 27 June**

- Sunrise 0544
- Sunset 2039
- Moonrise 1619
- Moonset 0231
- Day Length 14h 55m

- **Sunday – 28 June**

- Sunrise 0544
- Sunset 2039
- Moonrise 1718
- Moonset 0307
- Day Length 14h 55m

Health & Safety

- Set –Up & Tear Down
 - Hard Hat & Work Gloves/Protective Eye Wear
 - Closed Shoe wear
- 360 Situational Awareness
- Good Body Mechanics and Teamwork
- Water & More Water
- Headgear/Sunglasses/Sun Screen
- Bug Repellent



General Rules and Guidance

- **Safety is Rule 1**
- **All other rules begin with Have Fun! Experiment and Practice.**
- Maintain situational awareness for safety and security
- Please sign into and out of the Field Day Site (@CP)
- All visitors should sign into the visitors log book.
Visitors should be escorted in the operating areas.
- Please report all injuries no matter how small
- Mark all your material and supplies
- **Please fill the operating schedule**

June Work Party

- Meet at Tom's W3TDH
711 Ludlow Street, Takoma
Park, MD 20912-7309
- Please bring your work
gloves and wear
appropriate clothes and
footwear.
- Please notify K3DHS of
any changes at
K3DHS@arrl.net or 240-
360-3771
- Date/Time
 - **Primary - 6 JUN**
 - Alternate – 13 JUN
 - 0900-1600
- Talk-IN: MARC Repeater
 - 146.955
- Personnel TBD

Load Out

- Meet at Tom's W3TDH
711 Ludlow Street, Takoma
Park, MD 20912-7309
- Please bring your work
gloves and wear
appropriate clothes and
footwear.
- Please notify K3DHS of
any changes at
K3DHS@arri.net or 240-
360-3771
- Date: 25 JUNE @ 1730
- Personnel TBD

Set-Up

- Friday, 26 JUN 2014
- Meet at the FD Site @ 0830 - 1700
- MARC will provide
 - Coffee
 - Water/Gatorade (G2)
 - Breakfast pastries/bagels
 - Lunch Pizza
- Please bring your safety gear
- We still need overnight security

Saturday-Sunday

- SAT, 27 JUN
 - 0830 – Complete Set-up and Test Stations
 - 1200 – Visitor hours begin
 - 1400 – Radiosport Activity (Contesting) begins and runs 24-hours.
- SUN, 28 JUN
 - 1200 – Initial demobilization begins
 - 1400 – Full demobilization
 - 1700 – Final Load-In @ W3TDH QTH

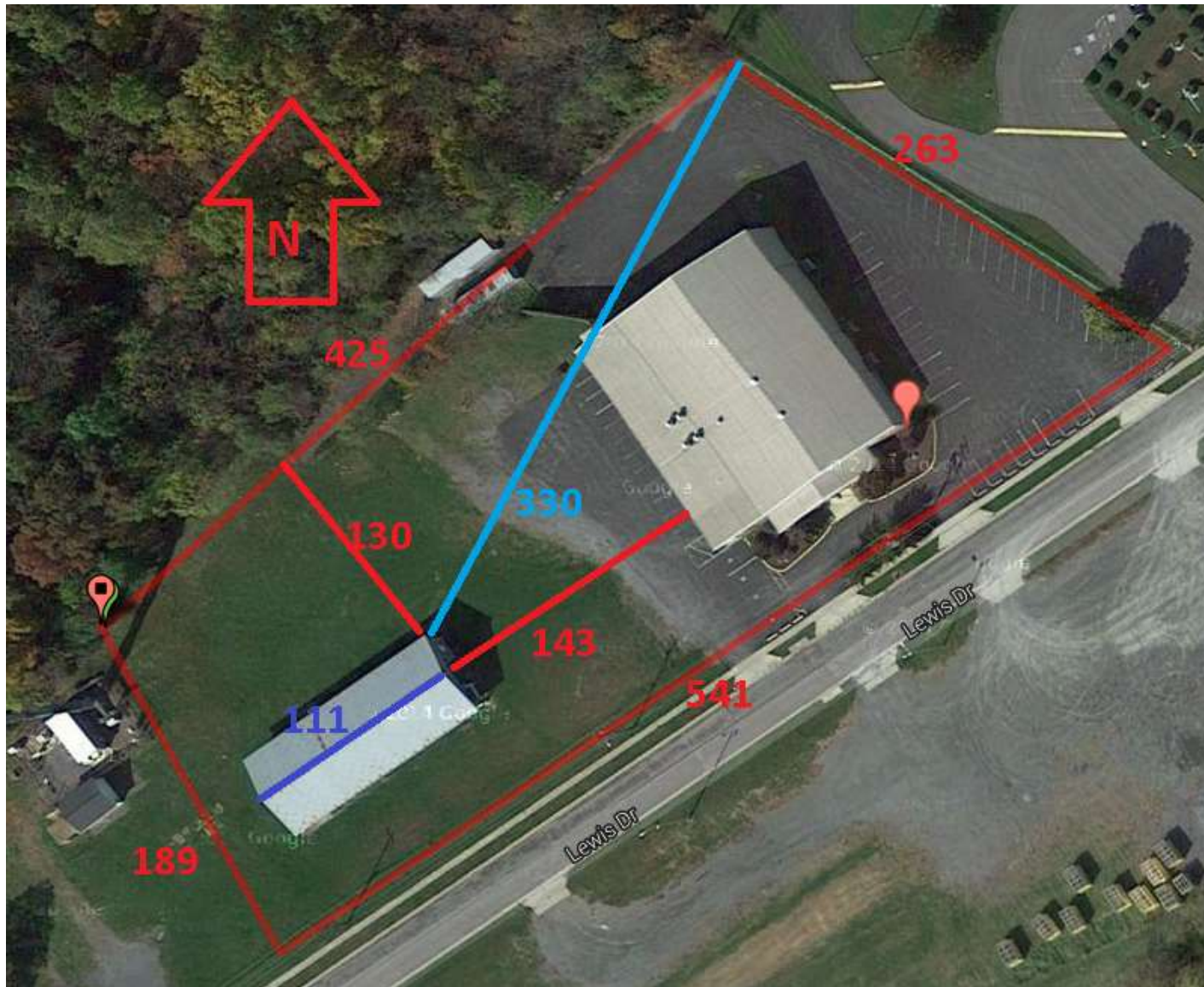
Location

- This year the event location is again being hosted by [DECT](#) through its served agency the Damascus Volunteer Fire Department at its Activities Center (also known as the Damascus Fair Ground area on Google Maps) at [10124-10308 Lewis Drive, Damascus, MD 20872](#). This location provides a variety of amenities and an excellent field with pavilion to establish the operating area and antenna farm.
- Lat/Long 39.291085 N 77.212624 W
- Elevation 825 Feet

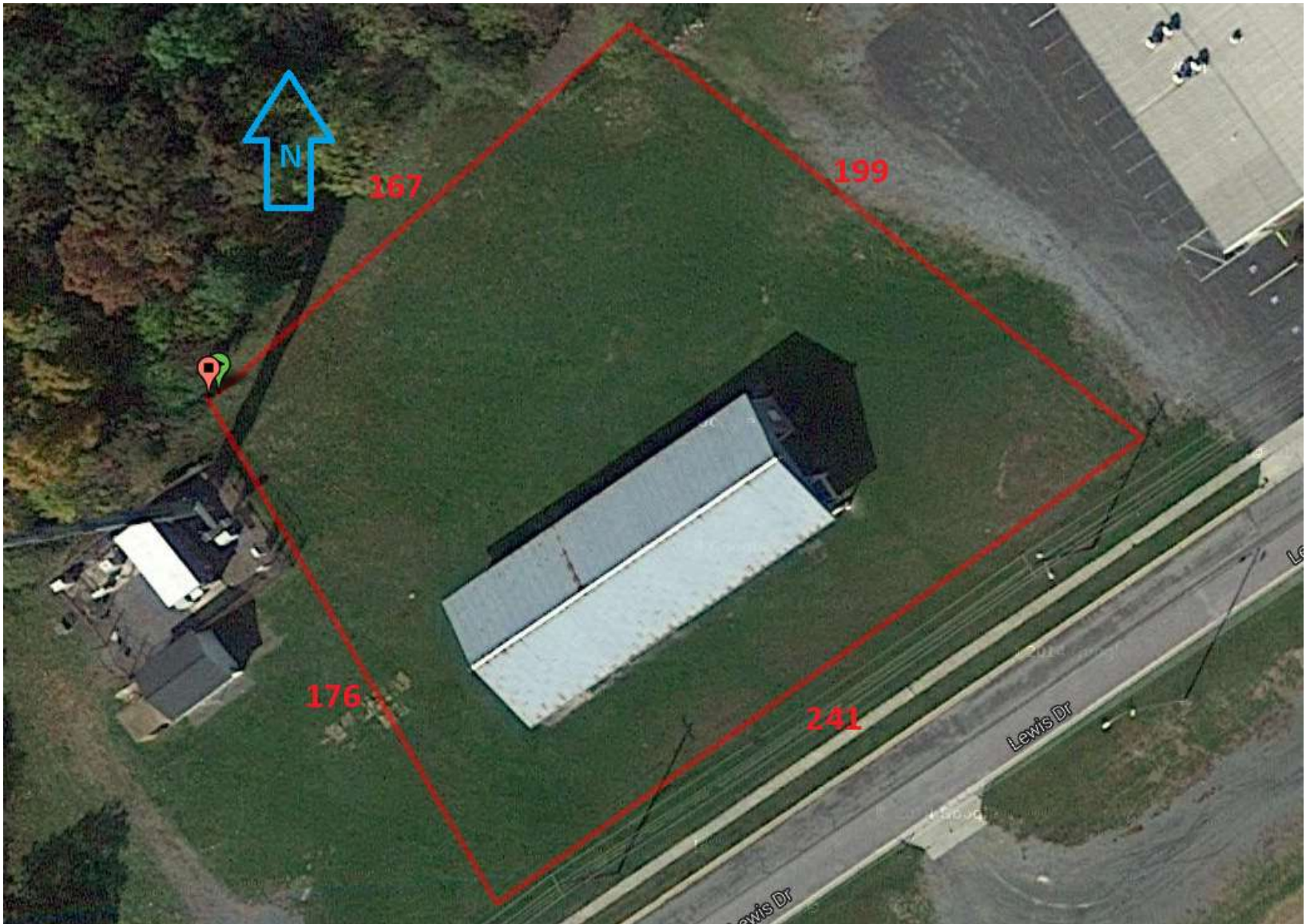
Location



Birds Eye View



Pavillion Ara



Front of Activities Center



Front – Looking Into



Rear Forward



Exhibition Stations (Tables)

- DECT Information w/ “Go-Box” (KB3SYA, WB3CFJ & N1AFO)
- MARC/ARRL Information (W3JAG)
- CW Operations (WB2U & N1AFO)
- Digital/Kits/Other (?)
- HAM Broadband (KB3TCB & WB3WRT)
- DVFD Apparatus Display (TBD)
- MC OEMHS (TBD)

Pavilion - Front



Pavilion - Inside



Pavilion – Facing Front



Pavilion – Roof/Rafters



Pavilion – Electrical Control Box



Command Post Pavilion – Right Front Corner



GOTA Station Pavilion – Left Front Corner



KP Area

Pavilion – Right Rear Corner



Pavilion – Front Field Area



Satellite Station Area Pavilion – Left Side Field



Antenna Farm Area

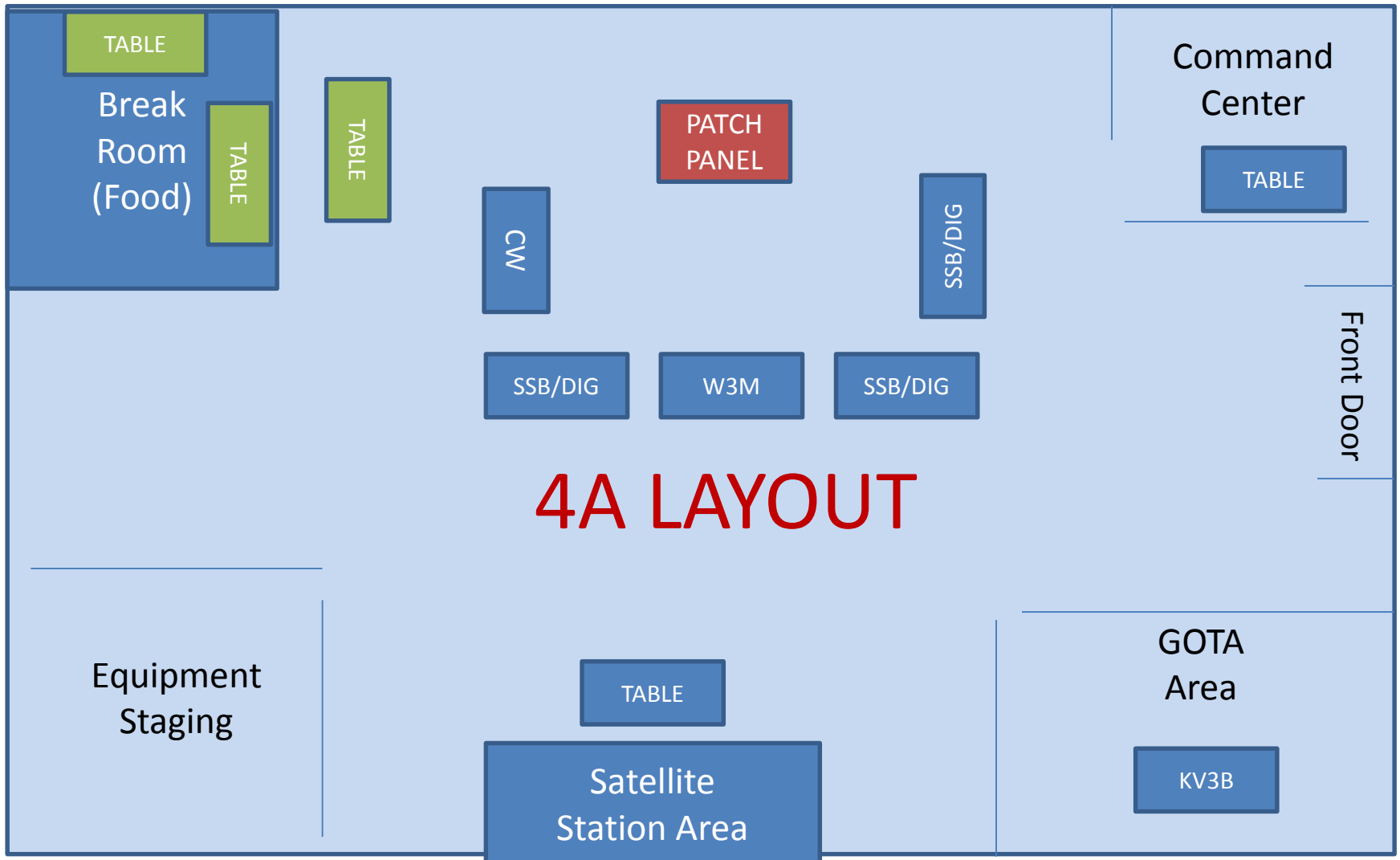
Pavilion – Right Side Field



Cell Phone Tower



Antenna Field



Patch Panel

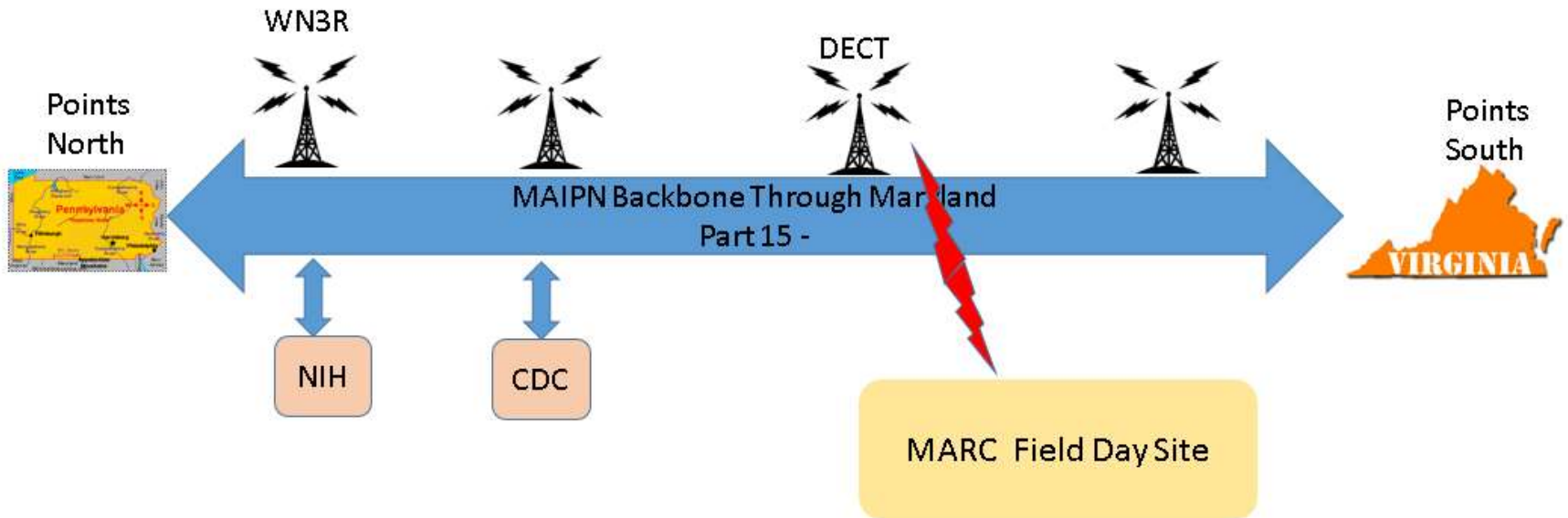


Operating Stations

- 4A (four portable stations with 3 or more operators, using 100% emergency power)
 - Plus GOTA, VHF & SAT Stations
 - Exchange 4A-MDC (Four Alpha-Mike Delta Charlie)
- All Stations (except GOTA) will use W3M Special Event Call
- GOTA will use club call KV3B
- A control operator must be present if operating beyond license class privileges

We Will Have Internet Access!

MAIPN Backbone Providing Internet Access



Operating Stations

Branch Chief (WA3SWJ)

- GOTA (N3ADE)
- VHF (?)
- SSB/DIG 1 (?)
- SSB/DIG 2 (?)
- CW (WB2U)
- SAT (KC3CNX)
- NTS MSG (K3CSX)

- VHF 2-6M (FM & SSB)
- GOTA (All Bands)
- SSB/DIG (Pending Prop)
- CW (Pending Prop)
- Please fill the gaps on the schedule.

Band Plan & Scheduling

Shift	Band				
14:00	80	40	20	15	10
15:00	80	40	20	15	10
16:00	80	40	20	15	10
17:00	80	40	20	15	10
18:00	80	40	20	15	10
19:00	80	40	20	15	10
20:00	80	40	20	15	10
21:00	80	40	20	15	10
22:00	80	40	20	15	10
23:00	80	40	20	15	10

Shift	Band				
0:00	80	40	20	15	10
1:00	80	40	20	15	10
2:00	80	40	20	15	10
3:00	80	40	20	15	10
4:00	80	40	20	15	10
5:00	80	40	20	15	10
6:00	80	40	20	15	10
7:00	80	40	20	15	10
8:00	80	40	20	15	10
9:00	80	40	20	15	10
10:00	80	40	20	15	10
11:00	80	40	20	15	10
12:00	80	40	20	15	10
13:00	80	40	20	15	10

Antenna “Scheduling”

Need to Factor in Propagation

Time Of Day	HF #1 CW	HF #2 Voice	HF #3 Voice	HF #4 Dig	VHF/UHF Voice	GOTA Voice
1400		20	20	40	40 2M/ 6M / 10M	80
1500		20	20	40	40 2M/ 6M / 10M	80
1600		20	20	40	40 2M/ 6M / 10M	80
1700		20	20	40	40 2M/ 6M / 10M	80
1800		20	20	40	40 2M/ 6M / 10M	80
1900		20	20	40	40 2M/ 6M / 10M	80
2000		20	20	40	40 2M/ 6M / 10M	80
2100					2M/ 6M / 10M	
2200					2M/ 6M / 10M	
2300					2M/ 6M / 10M	
0000					2M/ 6M / 10M	
0100					2M/ 6M / 10M	
0200					2M/ 6M / 10M	
0300					2M/ 6M / 10M	
0400					2M/ 6M / 10M	
0500					2M/ 6M / 10M	
0600					2M/ 6M / 10M	
0700		20	20		2M/ 6M / 10M	
0800		20	20		2M/ 6M / 10M	
0900		20	20		2M/ 6M / 10M	
1000		20	20		2M/ 6M / 10M	
1100		20	20		2M/ 6M / 10M	
1200		20	20		2M/ 6M / 10M	
1300		20	20		2M/ 6M / 10M	

Satellite Challenge

- Current Team
 - Phil KC3CNX
 - Bruce WA3SWJ
- Need additional personnel to support
- Need pass schedule

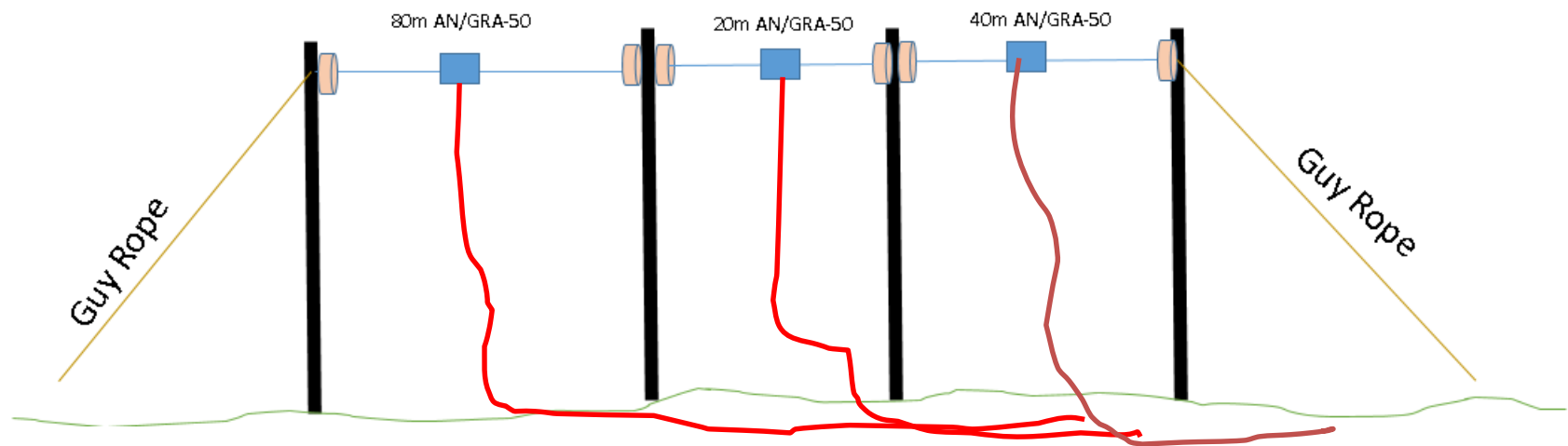
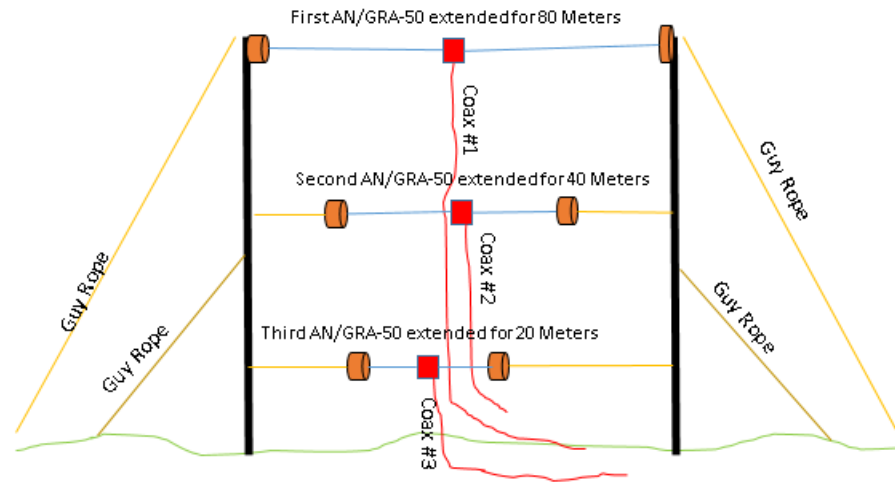
Food & Refreshments

- Friday – Saturday – Sunday (Club Provided)
 - Coffee, Water, & G2 (All Day)
 - Breakfast – Pastries and Bagels
 - Lunch – Pizzas
 - Dinner – On your own

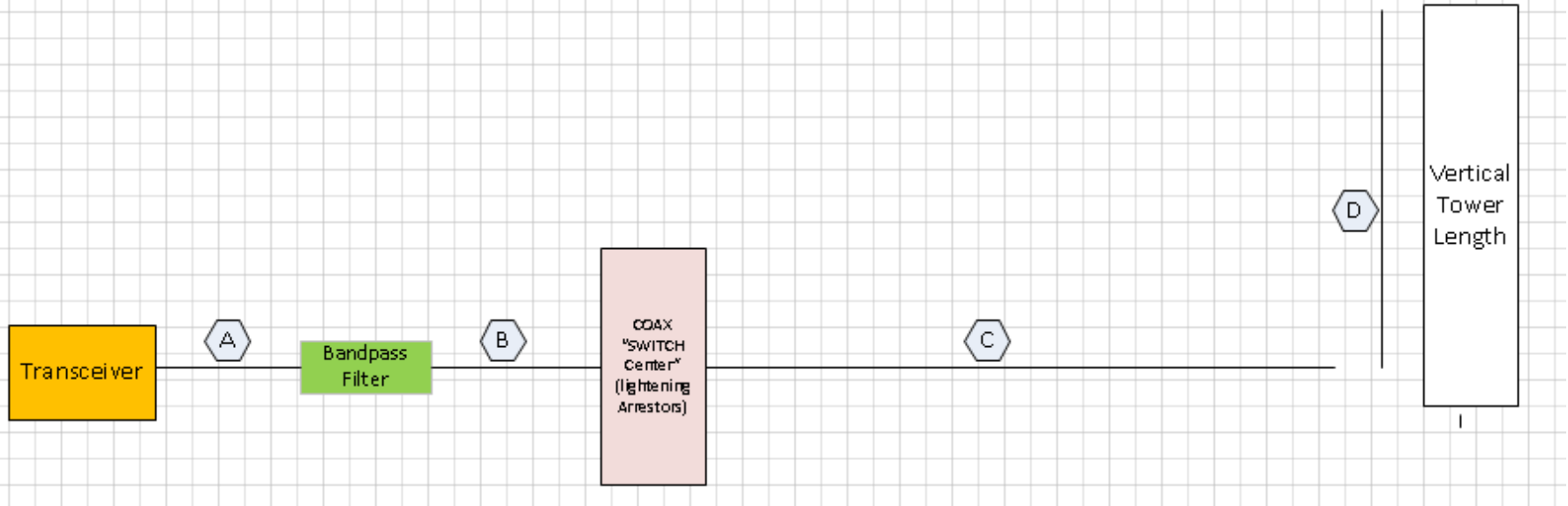
Wire Antenna Candidates

Antenna	Status	Contact
40/80 horizontal Loop	Needs to be built	Vic – WB2u
20-15-10 wire Yagi	Needs to be built – ARRL PDF file	Bruce – WA3SWJ
Carolina Wyndom	Needs to be built	Glenn N3COB
20-15-10 Fan Dipole	Built	Joe AB3CR
Parallel Dipoles	Built	Stored at Tom's W3TDH
AN-GRA-4 Adjustable Dipole	Built	Stored at Tom's W3TDH
Budipole Antenna System (BANDS ?)	Built	Stored at Tom's W3TDH

AN/GRA-50 Layout



Coax Length Sections



2014 Total Coax Calculation

Run ID	Description	DISTANCE				Comments
		A	B	C	D	
1	Ant site #1 Tribander	0	0	60	60	50 ft tower, rotating beam
2	Ant Site #1 20 meter dipole			60	60	
3	Ant Site #2 2 Meter Beam			100	60	50 ft tower rotating beam – Order a duplexor or splitter? (consolidate with 6 Meter run)
4	Ant Site #2 6 Meter Beam			100	60	50 ft tower rotating beam Order a duplexor or splitter to consolidate with 2 meter run
5	Ant Site #2 Dipole			100	50	
6	Ant Site #3 LongWire/Tuner			60	10	
7	Ant Site #4 Alpha Vertical			75	10	
8	Ant Site #5 Multi-Band Vertical			30	10	
10	Operating Station #1	1	50			Transceiver to patch panel run
11	Operating Station #2	1	50			Transceiver to patch panel run
12	Operating Station #3	1	50			Transceiver to patch panel run
13	Operating Station #4	1	50			Transceiver to patch panel run
14	GOTA	1	70			Transceiver to patch panel run
15	VHF (2 M)	1	50			Transceiver to patch panel run Possible to double up here --
16	VHF(6M)	1	50			
TOTALS		7	370	685	320	TOTAL COAX required .. 1382 feet If we double up the 2m/6M – and double up the vhf transceiver runs - then this number drops 1172 feet (saves 210 feet)

Coax Run Inventory

Totals From Tom

$$1 \times 140 = 140$$

$$3 \times 75 = 150$$

$$4 \times 100 = 400$$

$$4 \times 25 = 100$$

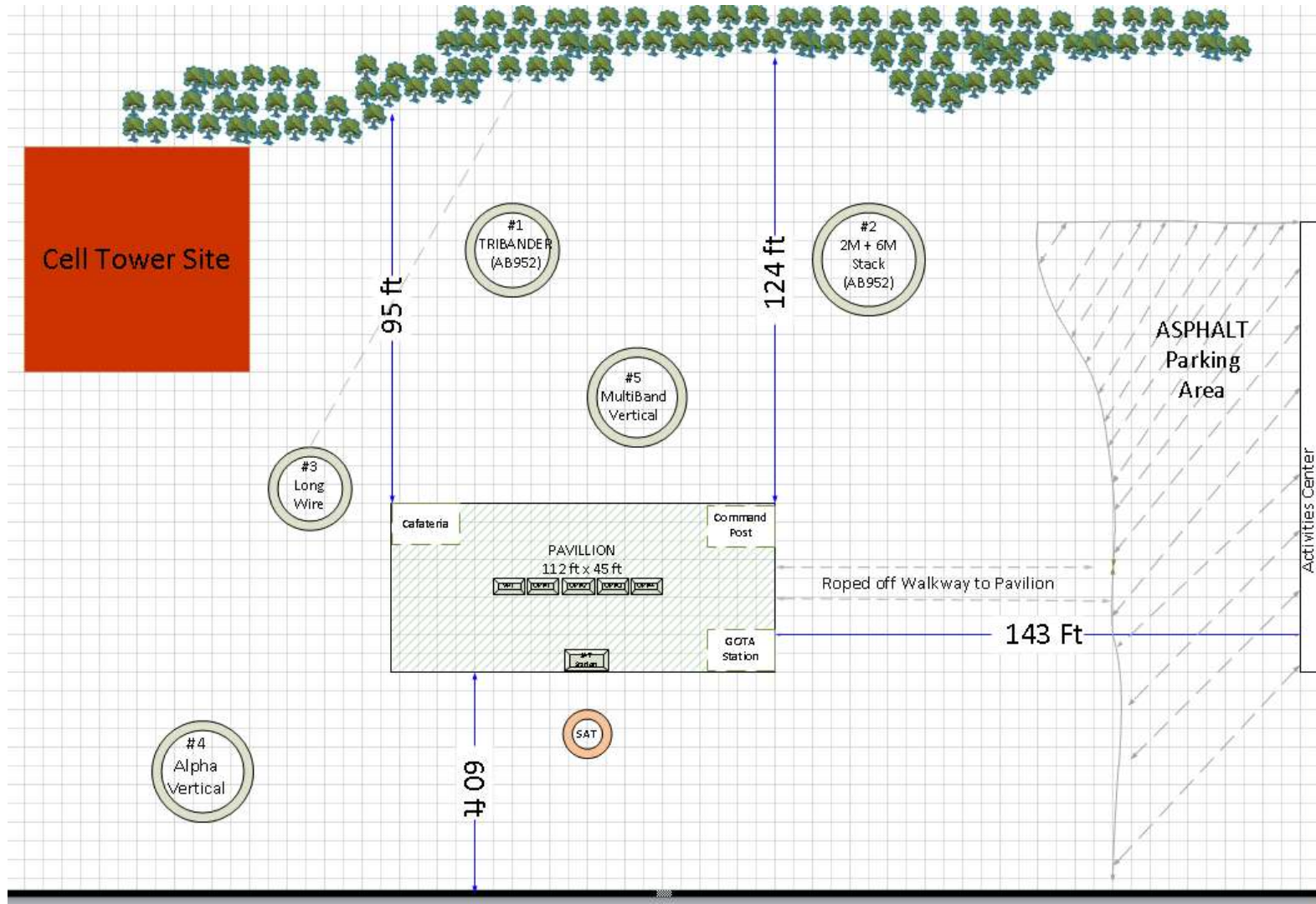
$$2 \times 50 = 100 \text{ (needs connectors)}$$

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890 feet

Looks like we need
another 300 ft or so

2014 Field Layout (approximate)



Last Years Totals

BAND	CW		Digital		Phone		Total by Band		% by BAND	
	QSOs	Pts	QSOs	Pts	QSOs	Pts	QSOs	Pts	QSOs	Pts
80M	2	4			157	157	159	161	26%	21%
40M	27	54	60	120	95	95	182	269	30%	35%
20M	42	84	29	58	91	91	162	233	27%	30%
15M	4	8	1	2	74	74	79	84	13%	11%
10M		0		0	5	5	5	5	1%	1%
6M		0		0	16	16	16	16	3%	2%
2M		0		0	1	1	1	1	0%	0%
	75	150	90	180	439	439	604	769		
	12%	20%	15%	23%	73%	57%			<<% by Mode	
					Total QSOs =====>		604			
					total Points =====>		769			

Bonus Point Reminder

Emergency Power – 4 Transmitters @ 100 each (GOTA and free VHF don't qualify)		400	
Media Publicity		100	
Setup In Public Place		100	
Information Table		100	
NTS Message to ARR SM		100	
Formal NTS Msg Handled 11@10pts MAX: 100		100	
W1AW Bulletin		100	
Natural Power QSO for 5 QSOs		100	
Site Visited by Elected Official		100	
Site Visited by Served Agency official (Laytonsville Fire Chief		100	
Education Activity- Dave - W2LNX conducted class on Broadbadn over Amateur Radio		100	
Youth Element # youth the completed at least 1 QSO --3 youth @ 20 each		60	
GOTA BONUS			
# of contacts		0	
No participants made over 20 contacts each			
Gota Coach present - double the GOTA bonus of # participants made over 20 contacts		#VALUE!	
Sat Contact		0	
Submitted using the b4h.net applet		50	

Still Need

- Power Cords (Extension Cords)
- Ice Chests
- Water Coolers
- Commercial Coffee Pot
- Box Fans
- Orange Traffic Cones
- Signage
- Ladders
- Headsets w/ Splitters & PTT
- Rig Power Supplies
- Rotators?
- Coax (LMR 400/RG8)
- Antennas
- Analyzers
- Laptops/Netbooks to run Logging SW

QUESTIONS?