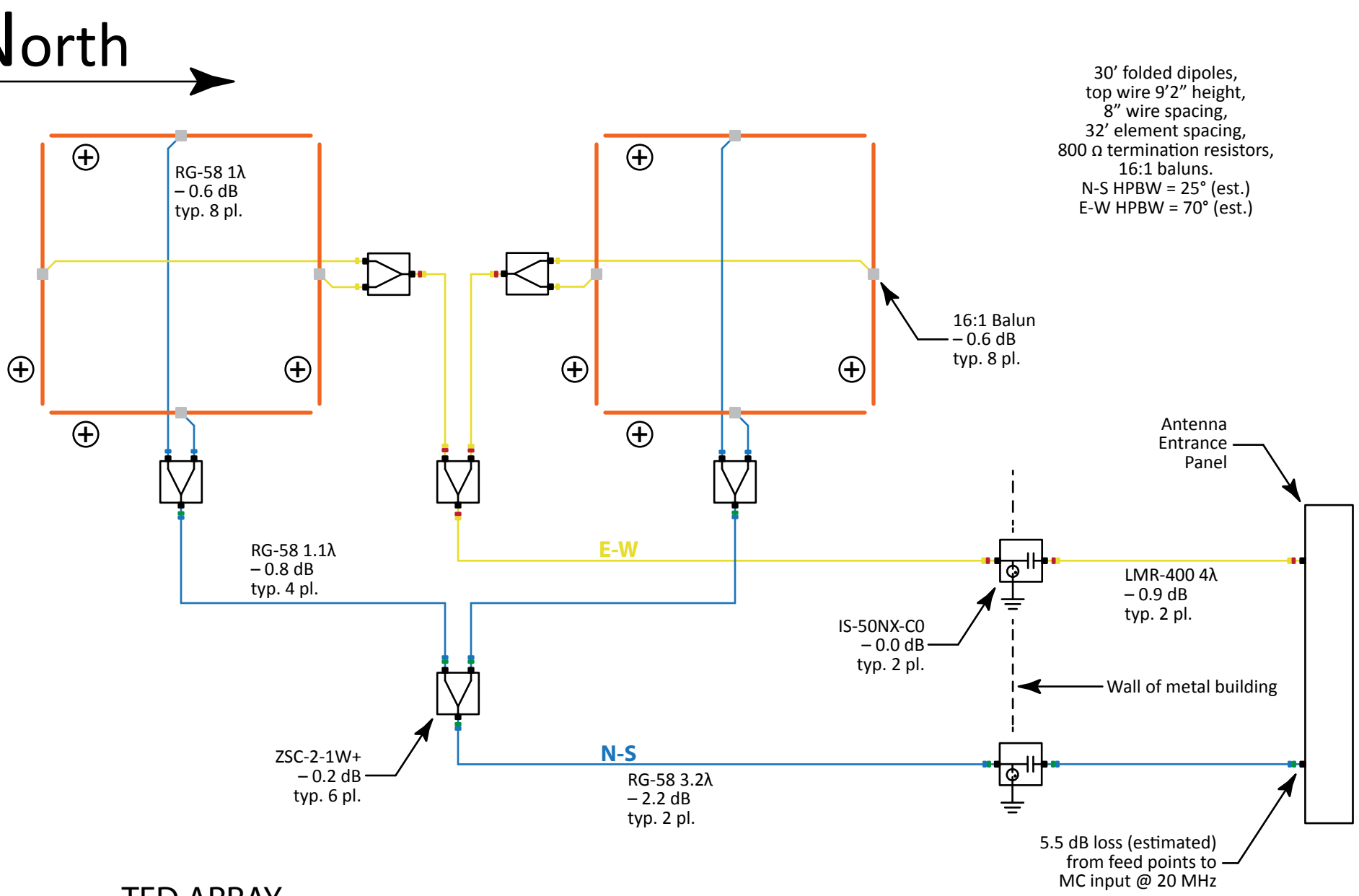


TFD ARRAY CONFIGURATION A X-Y MODE

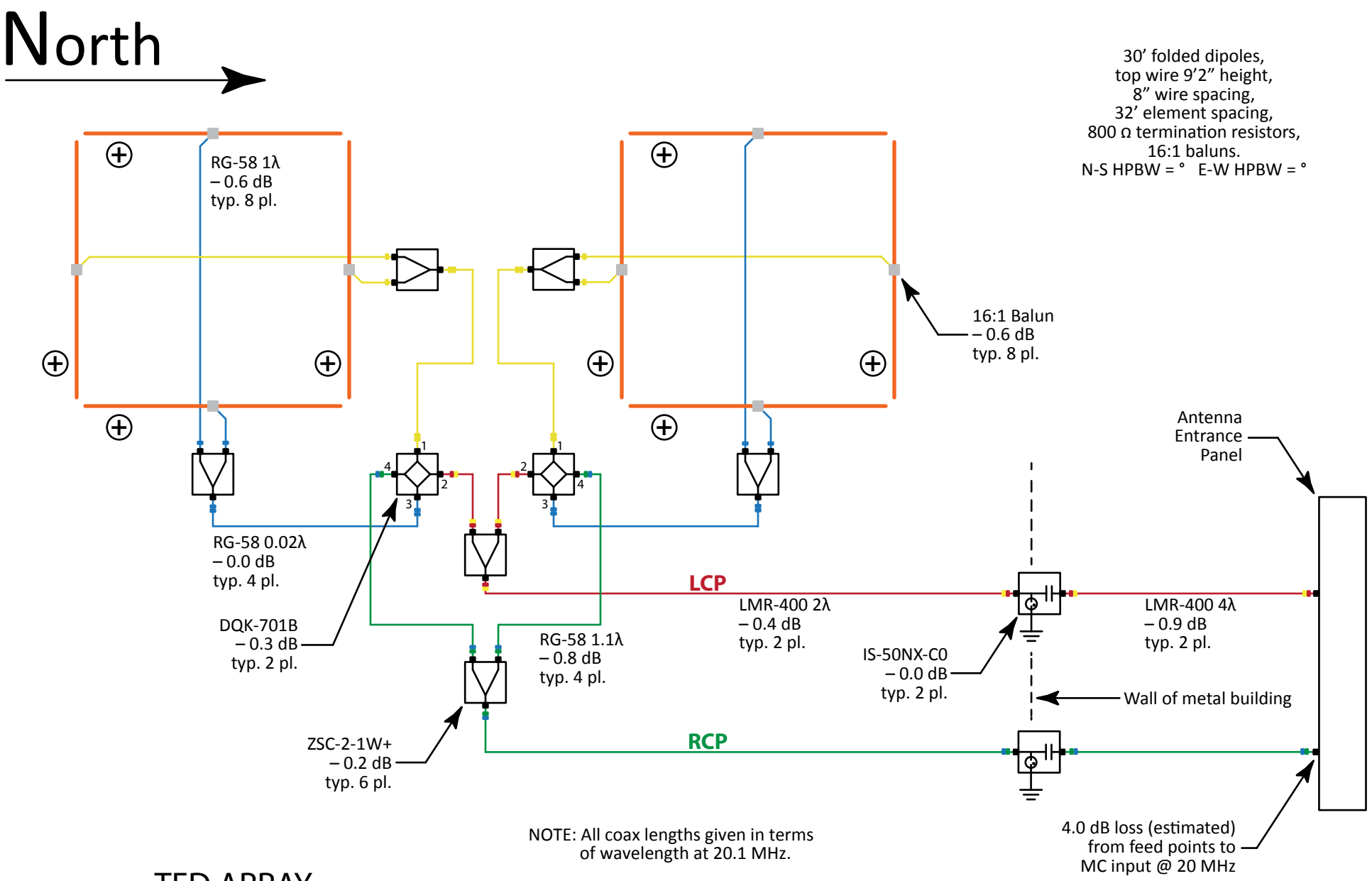
NOTE: All coax lengths given in terms of wavelength at 20.1 MHz.

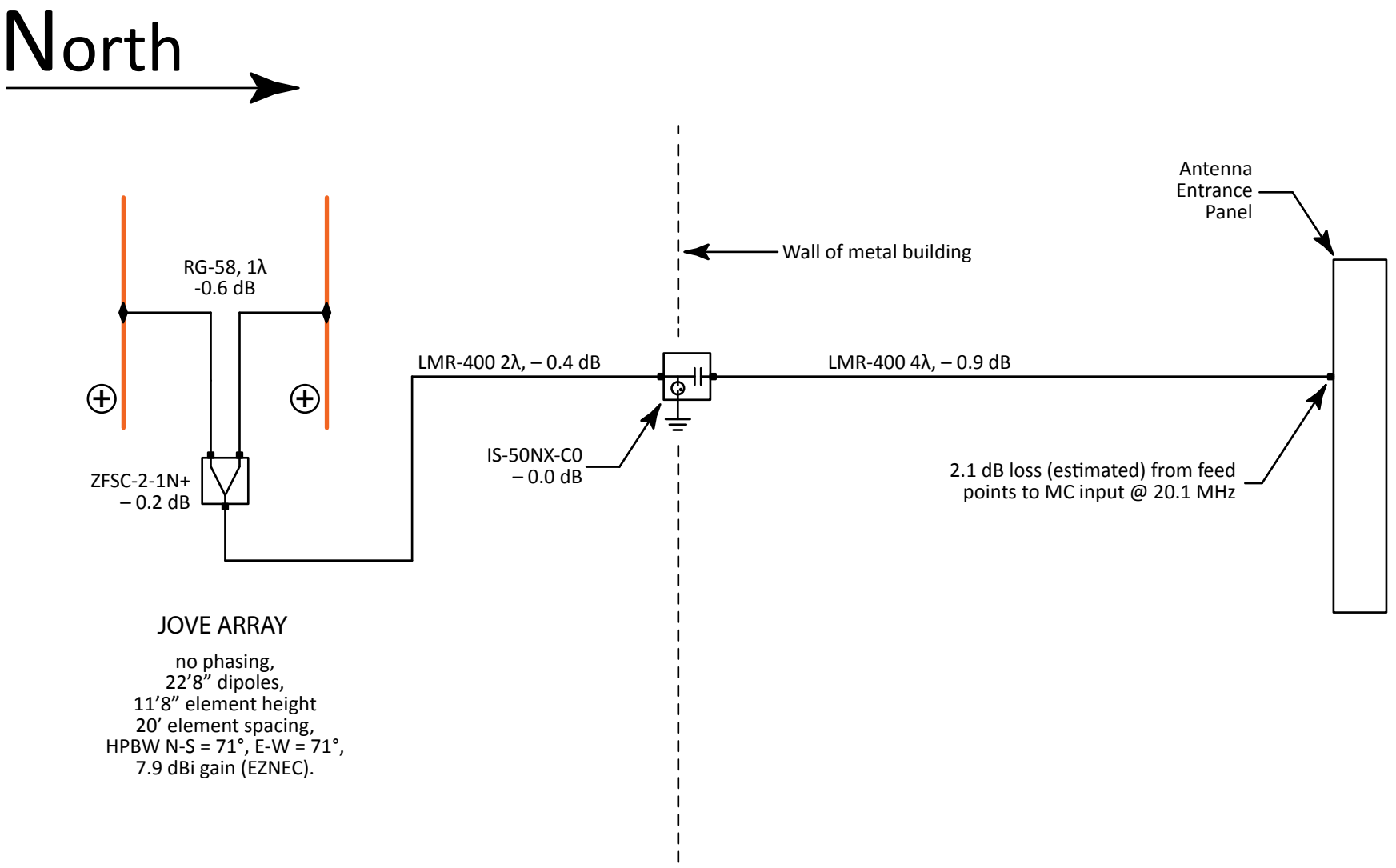
AJ4CO OBSERVATORY

AJ4CO Observatory Diagram

SIZE	DATE	PART NUMBER	REV
A	04 DEC 2013	N/A	

SCALE	DRAWN BY	SHEET
NONE	DAVE TYPINSKI	1 OF 4


North
30’ folded dipoles,
top wire 9’2” height,
8” wire spacing,
32’ element spacing,
800 Ω termination resistors,
16:1 baluns.
N-S HPBW = ° E-W HPBW = °
RG-58 1λ
– 0.6 dB
typ. 8 pl.
16:1 Balun
– 0.6 dB
typ. 8 pl.
Antenna
Entrance
Panel
RG-58 0.02λ
– 0.0 dB
typ. 4 pl.
LCP
LMR-400 2λ
– 0.4 dB
typ. 2 pl.
LMR-400 4λ
– 0.9 dB
typ. 2 pl.
DQK-701B
– 0.3 dB
typ. 2 pl.
RG-58 1.1λ
– 0.8 dB
typ. 4 pl.
IS-50NX-C0
– 0.0 dB
typ. 2 pl.
Wall of metal building
ZSC-2-1W+
– 0.2 dB
typ. 6 pl.
RCP
4.0 dB loss (estimated)
from feed points to
MC input @ 20 MHz
NOTE: All coax lengths given in terms
of wavelength at 20.1 MHz.
TFD ARRAY
CONFIGURATION B
CP MODE
AJ4CO OBSERVATORY
AJ4CO Observatory Diagram
SIZE A
DATE 04 DEC 2013
PART NUMBER N/A
REV
SCALE NONE
DRAWN BY DAVE TYPINSKI
SHEET 2 OF 4



JOVE ARRAY

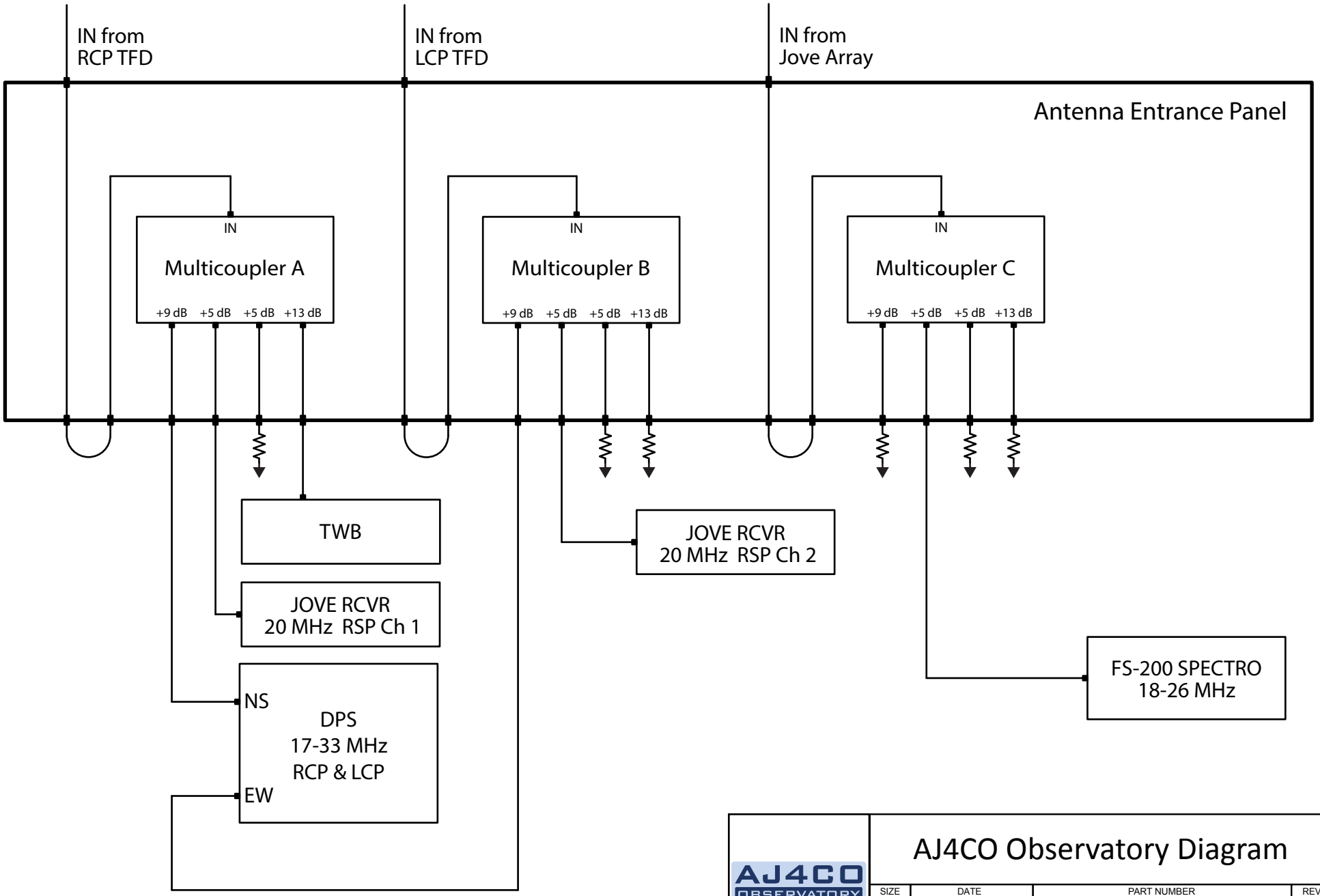
no phasing,
22’8” dipoles,
11’8” element height
20’ element spacing,
HPBW N-S = 71°, E-W = 71°,
7.9 dBi gain (EZNEC).

NOTE: All coax lengths given in terms of wavelength at 20.1 MHz.

AJ4CO Observatory Diagram

SIZE	DATE	PART NUMBER	REV
A	04 DEC 2013	N/A	

SCALE	DRAWN BY	SHEET
NONE	DAVE TYPINSKI	3 OF 4

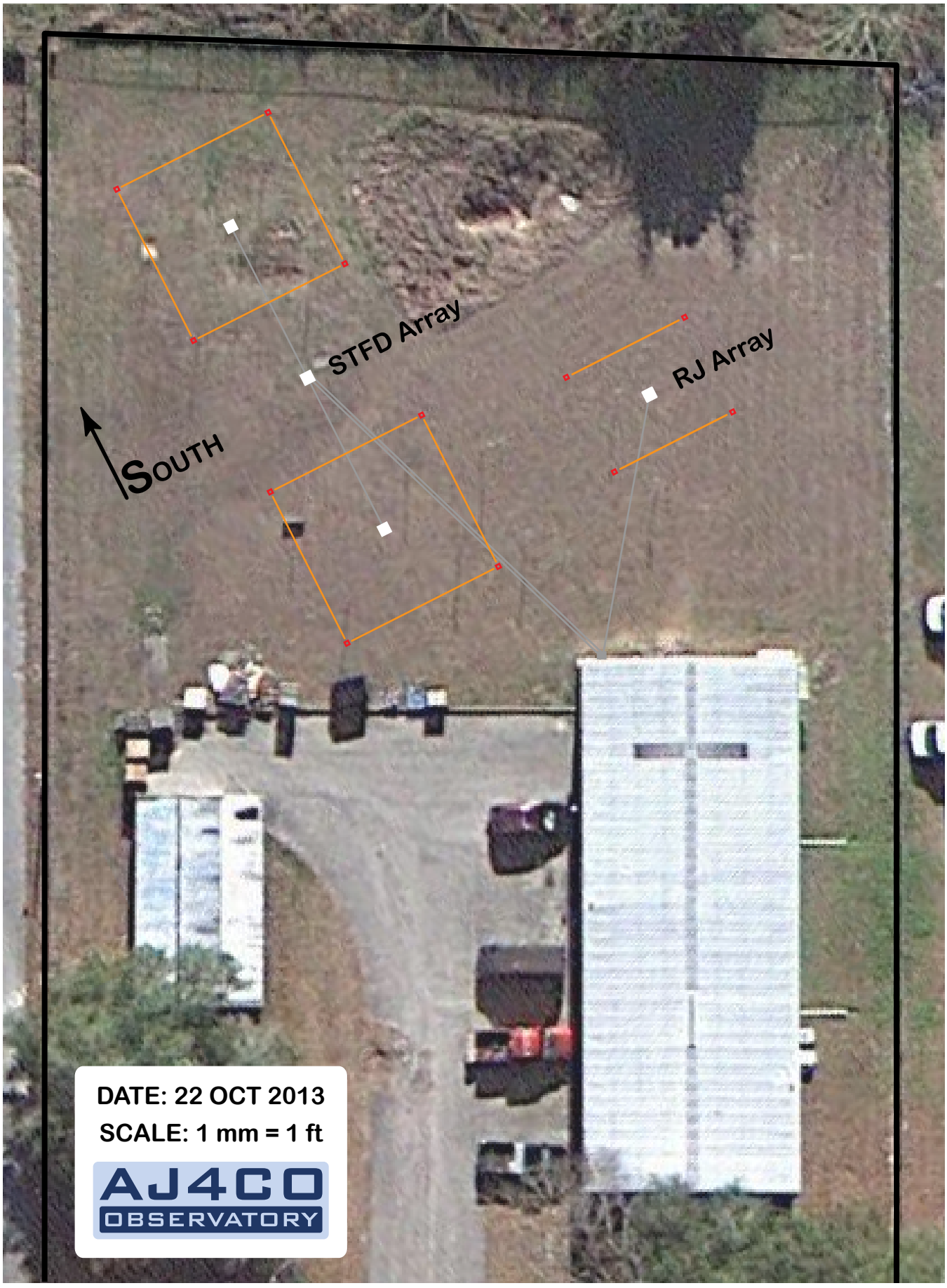


AJ4CO OBSERVATORY

AJ4CO Observatory Diagram

SIZE	DATE	PART NUMBER	REV
A	04 DEC 2013	**N/A**	

SCALE	DRAWN BY	SHEET
NONE	DAVE TYPINSKI	4 OF 4


STFD Array
RJ Array
SOUTH
DATE: 22 OCT 2013
SCALE: 1 mm = 1 ft
AJ4CO
OBSERVATORY