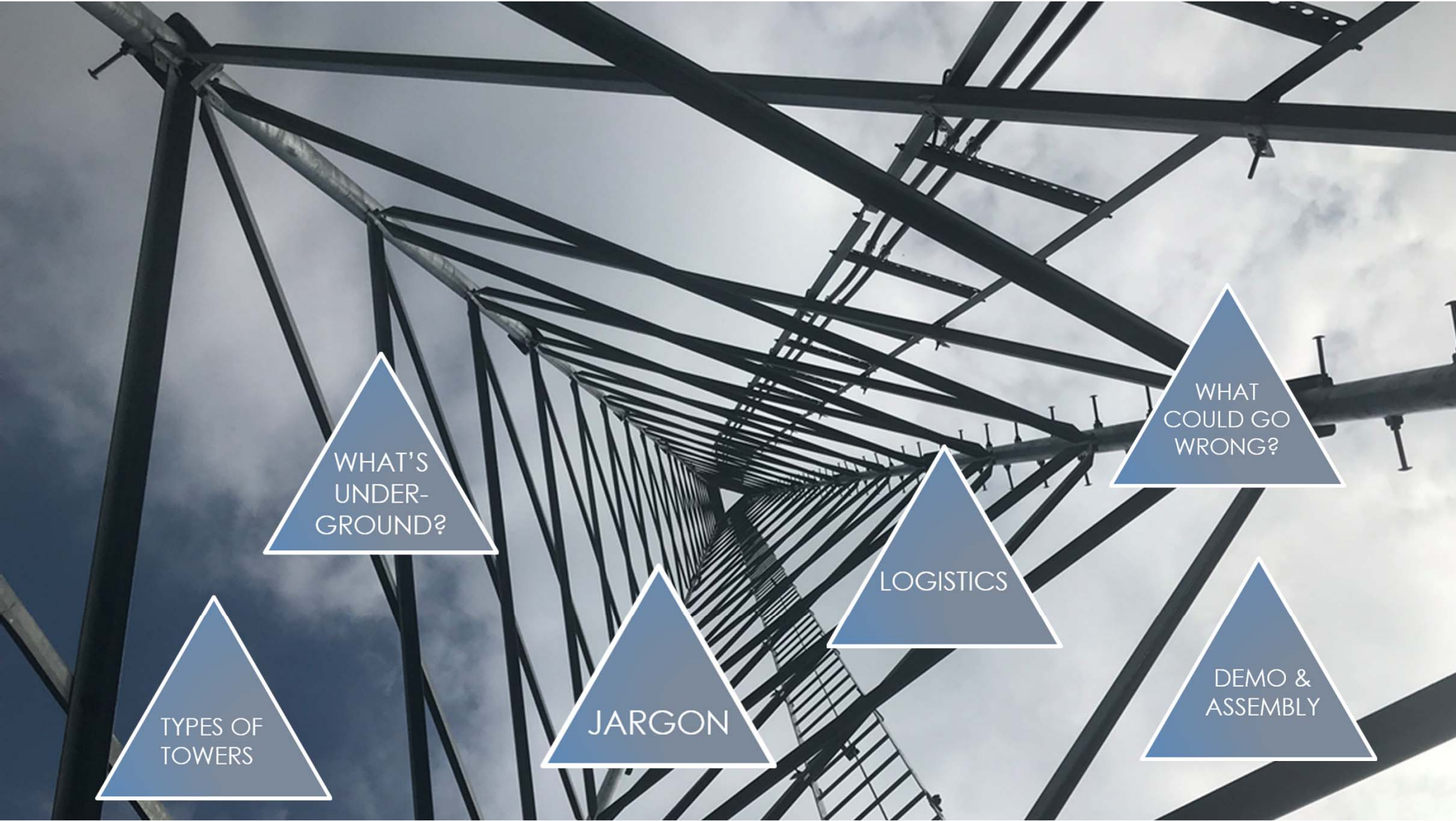


MDC
TAKES ON A MULTI-DECADE
EFFORT TO REPLACE OVER 100
RADIO TOWERS

2021

Barbara Li, P.E.





WHAT'S
UNDER-
GROUND?

WHAT
COULD GO
WRONG?

TYPES OF
TOWERS

LOGISTICS

DEMO &
ASSEMBLY

JARGON

TYPES OF
TOWERS



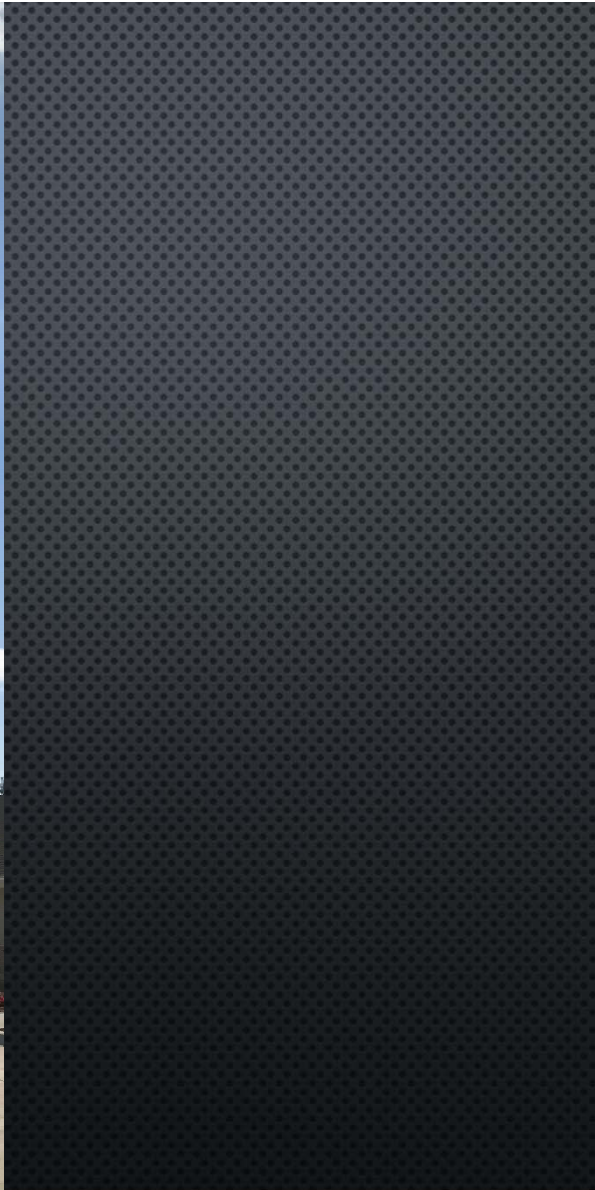
TYPES OF
COMMUNICATION
TOWERS



SELF-SUPPORTING
VRS.
GUY-WIRED





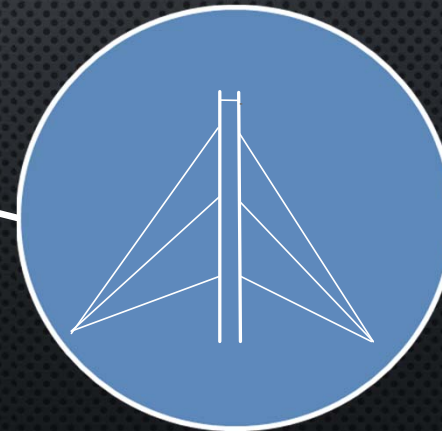








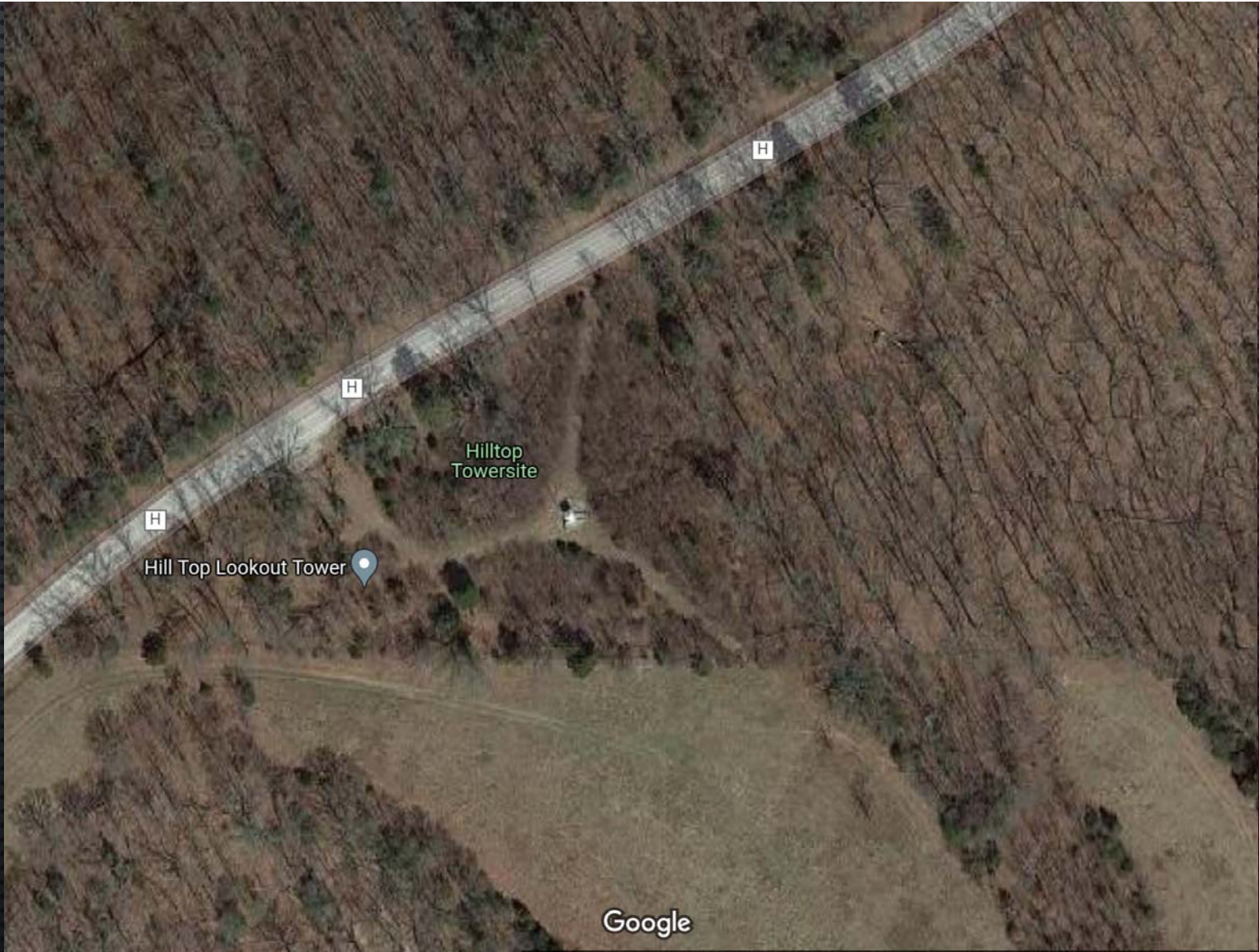
SELF-SUPPORTING VRS.
GUY-WIRED











Hill Top Lookout Tower

Hilltop
Towersite

Google





WHAT'S
UNDER-
GROUND?





















ICE BRIDGE

COAXIAL CABLES

COMMUNICATIONS
BUILDINGS

ANTENNAS

JARGON

WAVE GUIDE ENTRY
PANEL

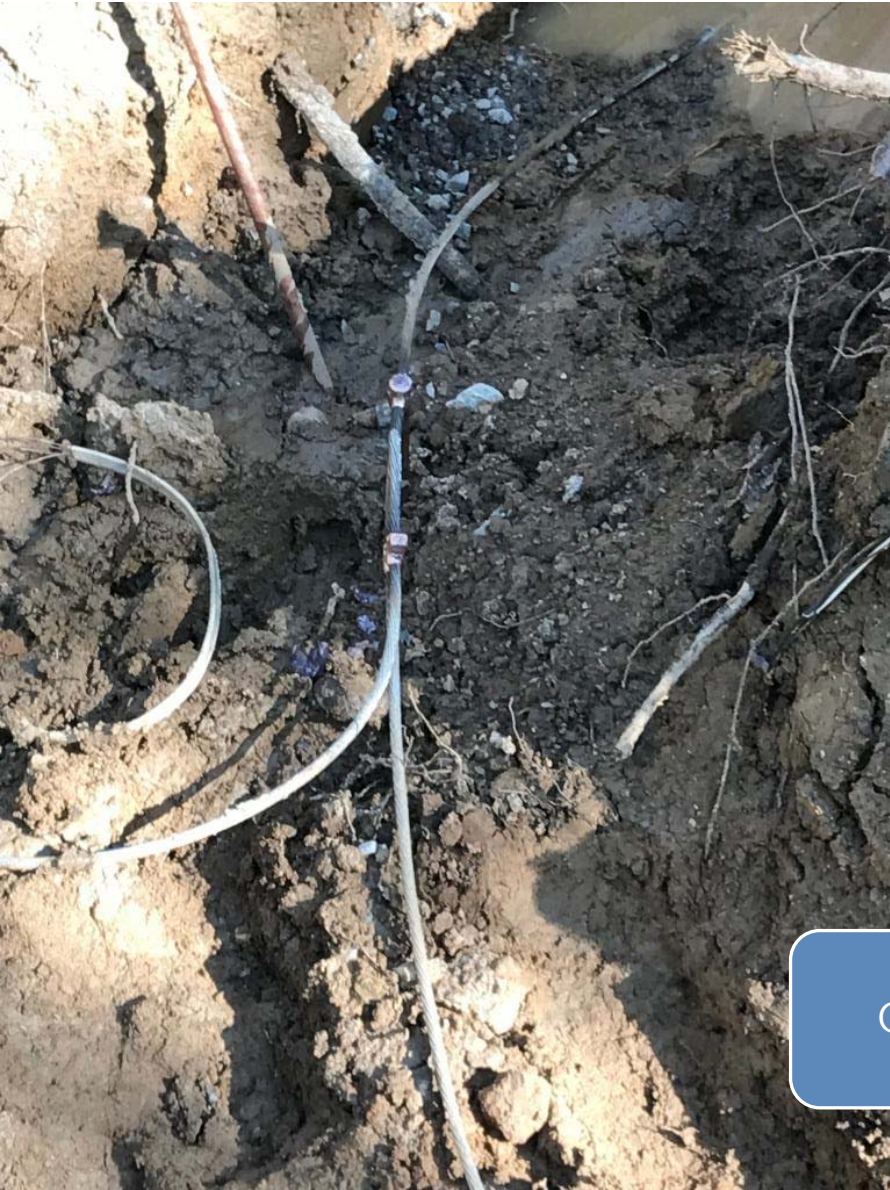
GROUNDING
RINGS & HALOS

SWEEP TESTING

GUY WIRES &
ANCHORS



GUY WIRES &
ANCHORS



GROUNDING RINGS



GROUNDING

COMMUNICATIONS
BUILDING



NOT:
RADIO HUT
CONTROL BOOTH
RADIO SHED



GROUNDING HALO





WAVE GUIDE ENTRY
PANEL



ICE BRIDGE



COAXIAL CABLES





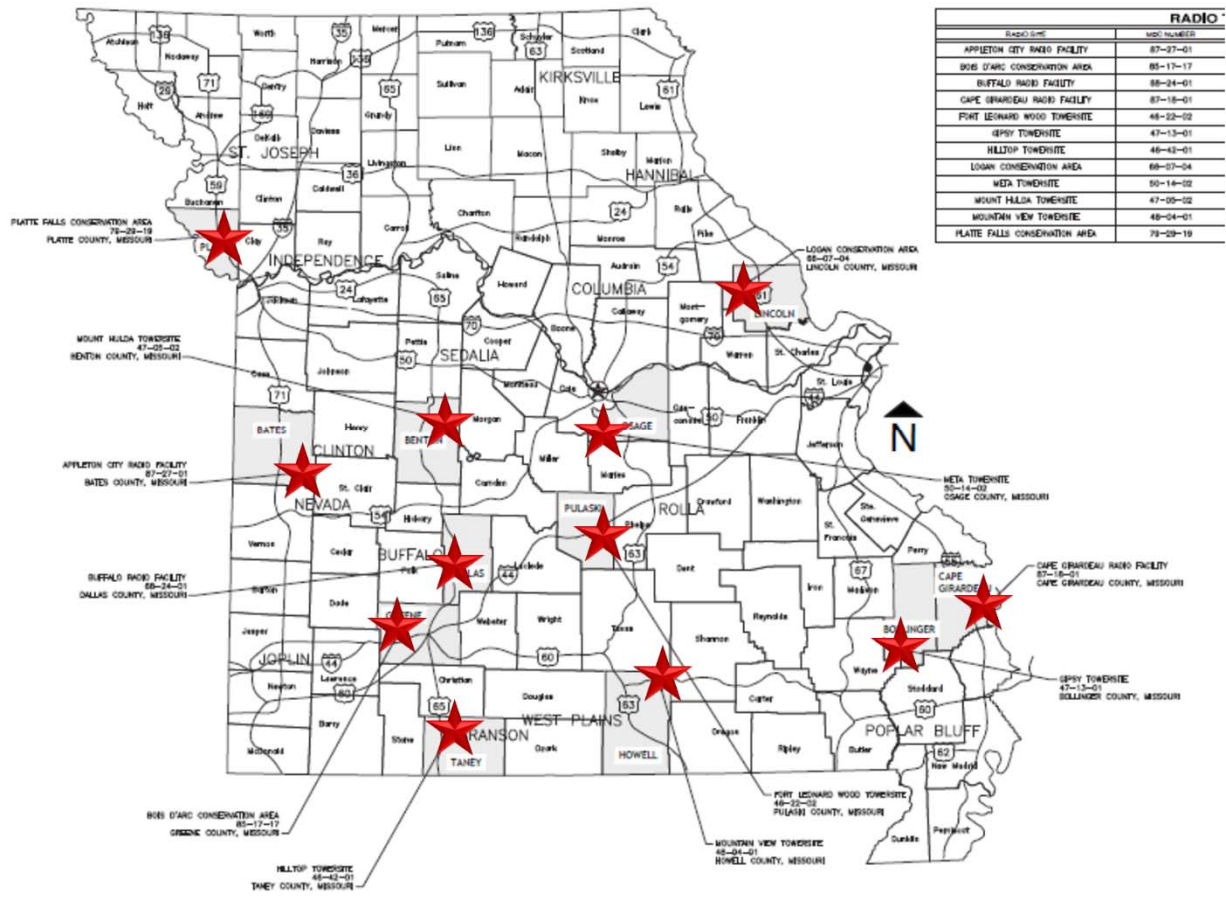
ANTENNAS





LOGISTICS

- PROJECTS GENERALLY DESIGNED AND BUILT IN GROUPS OF 10-12
- APPROX 1 GROUP EVERY 4 YEARS
- UTILIZE QUALIFICATIONS-BASED SELECTION TO SELECT DESIGN CONSULTANT AND PUBLIC BIDDING TO SELECT A CONTRACTOR
- OUR IN-HOUSE COMMUNICATIONS NETWORK SPECIALIST SPECIFIES ANTENNA BRAND FOR COMPATIBILITY AND TYPE. HE ALSO INSTALLS THE RADIO EQUIPMENT.
- THE TOWERS DO NOT HAVE TO BE A SPECIFIC BRAND. THE TOWER MANUFACTURER PROVIDES THE FOUNDATION DESIGN.



RADIO	
RADIO SITE	MOI NUMBER
APPLETON CITY RADIO FACILITY	87-27-01
BOB D'ARC CONSERVATION AREA	85-17-17
BUFFALO RADIO FACILITY	88-24-01
CAPE GIRARDEAU RADIO FACILITY	87-16-01
PONT LEONARD WOOD TOWERITE	48-22-02
EPHY TOWERITE	47-13-01
HILLTOP TOWERITE	46-43-01
LOGAN CONSERVATION AREA	89-07-04
MEA TOWERITE	50-14-02
MOUNT HUDA TOWERITE	47-05-02
MOUNTAIN VIEW TOWERITE	48-04-01
PLATTE FALLS CONSERVATION AREA	79-09-19





DEMO &
ASSEMBLY













NOW CONSTRUCTING
ROCKWOODS TOWERSITE
SIX FLAGS RADIO TOWER REPLACEMENT
MISSOURI DEPT. OF CONSERVATION
DANGER - STAY CLEAR OF CONSTRUCTION
CONTRACTOR
SPENCER CONTRACTORS
314-843-5166

NO TRESPASSING
NOTICE
CAUTION
DANGER









NOW CONSTRUCTING
ROCKWOODS TOWER
SIX FLAGS RADIO TOWER REPAIR
MISSOURI DEPT. OF CONSERVATION
STAY CLEAR

CAUTION







WHAT COULD
GO WRONG?













