Orland Park APPS Site

180' Monopole Tower Ultra - Multi Usage design

Introduction

- APPS Tower Site is locally Owned.
- Principle is a local businessman with vast experience in the wireless Industry.
- APPS development team has Built over 1000 Sites in 35 years - most for Andrew Corporation.
- Mega Multi-Use Site.
- Local Maintenance Program after build.

Why This Helps Orland Park?

- Wireless Radio Towers Are a Must.
- The future forecast of wireless communications is only going to require more sites.
- ONLY properly designed sites will eliminate Tower Proliferation.
- We understand what it takes to design a site that is best for the community.

Why This Helps Orland Park?

- Widespread access to broadband enables local businesses to expand, promotes job development, allows for more efficient public services. Improves emergency services and disaster recovery.
- This sites technologies will provide highspeed connections which Business & Residents rely greatly on.

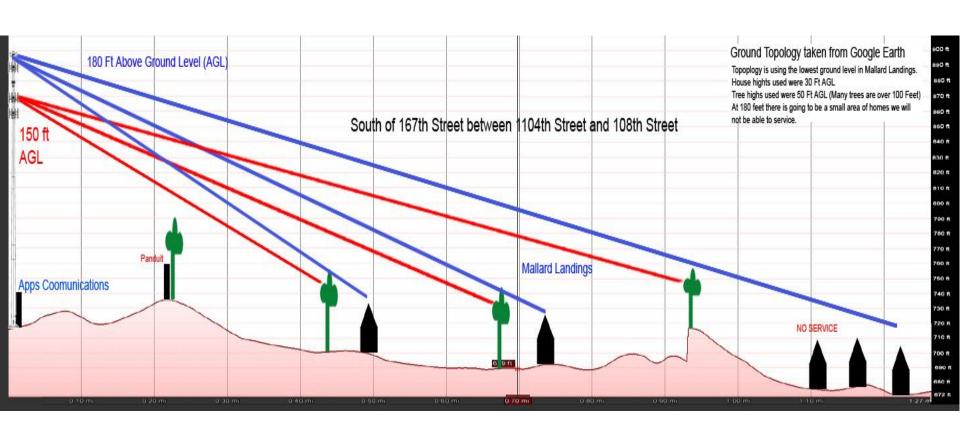
Why This Helps Orland Park?

 Mega – Multi Use sites are not normally designed by wireless carriers due to cost restrictions. Typical Wireless Cell Companies are more concerned with building multiple Sites and limit costs per Site by building sites that they say are multi use, but become just the opposite within a few years due to technology & Structural Standards Changes.

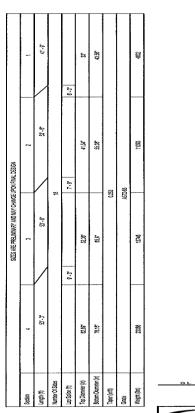
Design Criteria

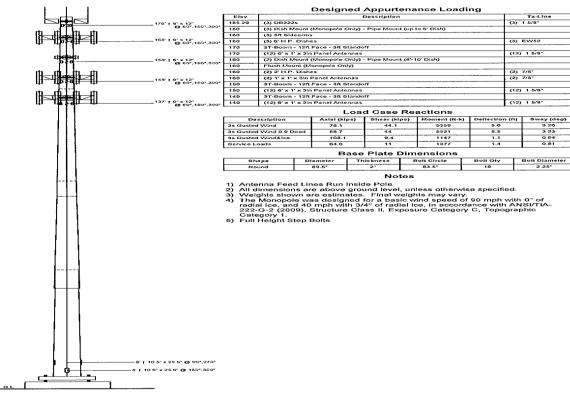
- Our planned structure would be a design for more capacity as normally dictated by demographics and radio propagation studies. This does NOT mean a fatter and bigger mass of a site, monopoles are formed plate steel.
- Our stronger pole design is thicker Plate steel not wider structures.

Projected Coverage



Sabre Monopole





Site Name:

Description:

13-3700-TJH-R2 MIDAMERICA TOWERS INC

By: JN

Orland Park, IL

Sabre Communications Corporation 2101 Murray Street P.O. Box 655 Parks (7) 232-650 Parks (7) 232-650 Parks (7) 232-650

Pole Design Criteria

- EIA 222-G Design
- Sabre or Valmont Pole (USA Made)
- Galvanized Monopole Design
- Antenna Design (over design) :
- 1. 3 wireless carriers
- 2. 8 each 3' wireless Microwave dishes
- 3. 3 Each two way (stick) antennas (911)
- 4. 2 each Wi-Fi providers

Improved Coverage / Capacity

- Busy Rt 45 Corridor.
- Shopping.
- Residents.
- Emergency Radio.
- During Severe Weather.
- Designed to outlive LTE and the Future of Wireless technologies.

Government Approvals Needed

- Federal Aviation Administration.
- Federal Communications Commission.
- NEPA (National Environmental Policy Act).
- Local Zoning.
- Local Permitting.

Typical Submittals for Permit

- FAA Determination of No Hazard.
- Survey (per village specs).
- Site Plans (per Village specs).
- Pole Design and Analysis (Stamped by Structural Engineer).
- Foundation Design (Stamped by Structural Engineer).
- NEPA SHPO Environmental Study.

