

***RADIO SITE
EQUIPMENT
DIRECTORY:
Scarborough/Old
Orchard Locations &
Info***

**Existing Radio
Sites Utilized by
Scarborough &
Old Orchard**



Radio Site Directory

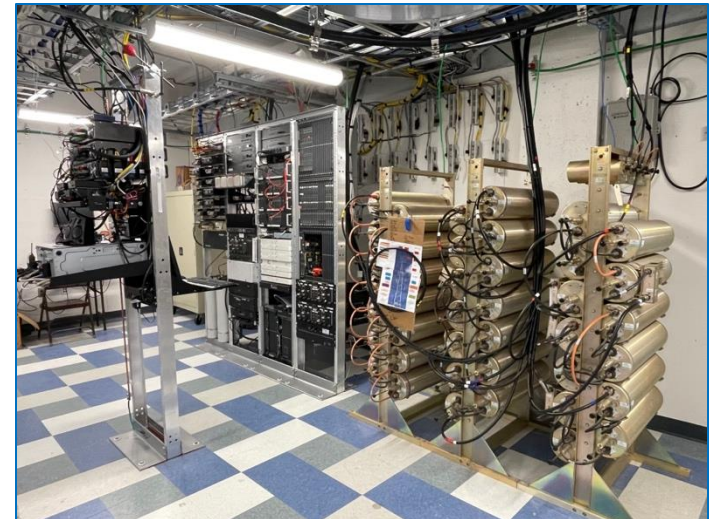
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**OVERVIEW OF EXISTING
SCARBOROUGH
TRANSMITTER SITE FACILITIES**

Scarborough Public Safety Building – Radio Site Facilities

SCARBOROUGH PSB

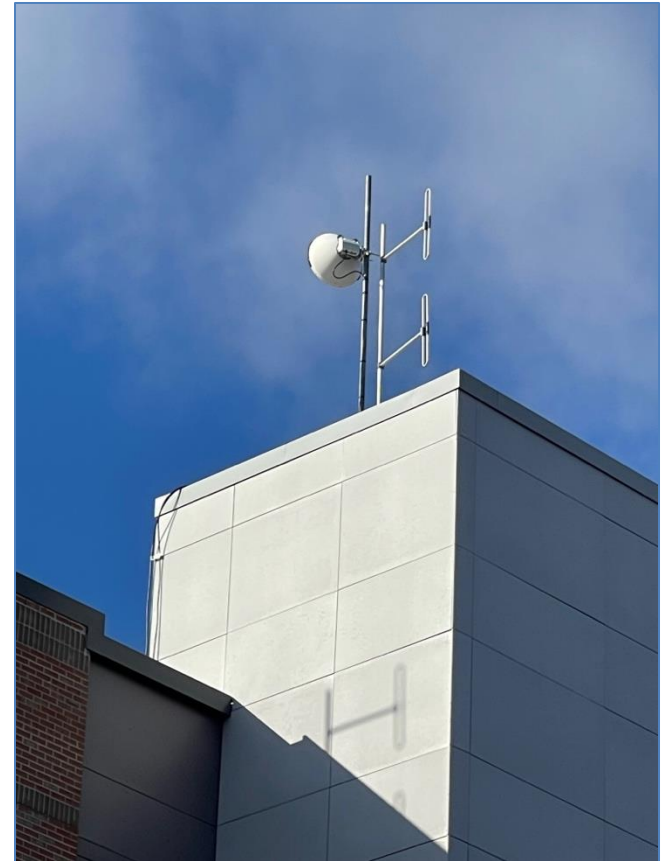
- Public Safety Building, 275 US-1 Scarborough
- City-owned 180' self-support lattice tower at the
- The structure is registered with the FCC as ASR #1311352
- This site is designated as the Prime Site as it supports Police & Fire the voting system equipment
- This site hosts most of the Town's base stations or repeaters
- There is a transmitter combiner to minimize the number of antennas on the tower; likewise, there is a receiver multicoupler to aggregate receivers
- There are six [6] remote voting receiver sites; each interconnected via town fiber optic cable; the Springbrook receiver is interconnected using 4.9 GHz microwave radio for the PSB– Scottow Hill – Springbrook link
- Radio and fiber equipment is installed in a secure room in the basement approx. 24 x 30
- The site has battery or UPS backup power
- The site has an emergency generator
- The site has grounding and lightning protection system in place



Maine Medical Center Scarborough

MAINE MEDICAL CENTER [MMC]

- Located at 92 Campus Drive, Scarborough
- Antennas are roof-mounted at the 75' level
- Both PD & FD prime repeaters are located here, but transmitters are disabled
- This site is used for portable talkback for MMC campus for enhanced in-building coverage
- The PD & FD receivers are interconnected to the PSB voting equipment using 11 GHz microwave link
- The site is equipped with GPS clock for future transmitter simulcast
- There is a transmitter combiner to minimize the number of antennas on the tower; likewise, there is a receiver multicoupler to aggregate receivers
- Radio equipment is installed in a 6 x 8 secure room near the rear entrance in the basement approx..
- The site has battery or UPS backup power
- The site has an emergency generator
- The site has grounding and lightning protection system in place



Report on Scarborough Mission Critical Radio Systems / SITE DIRECTORY

Maine Medical Center Scarborough



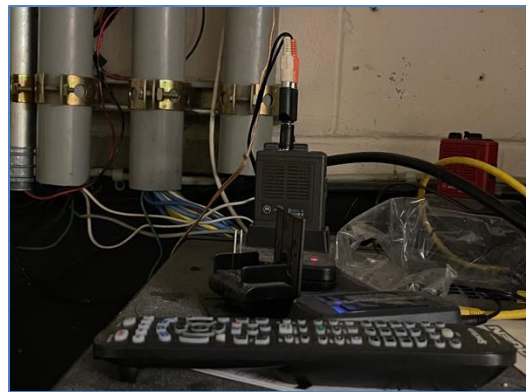
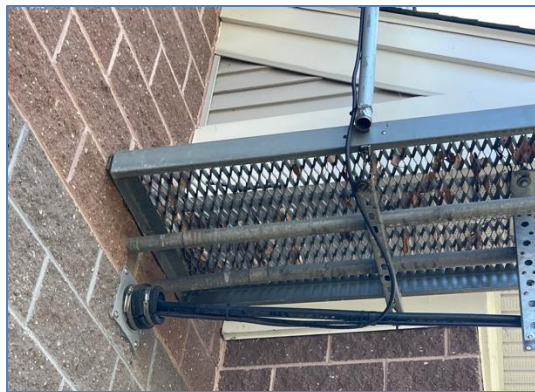
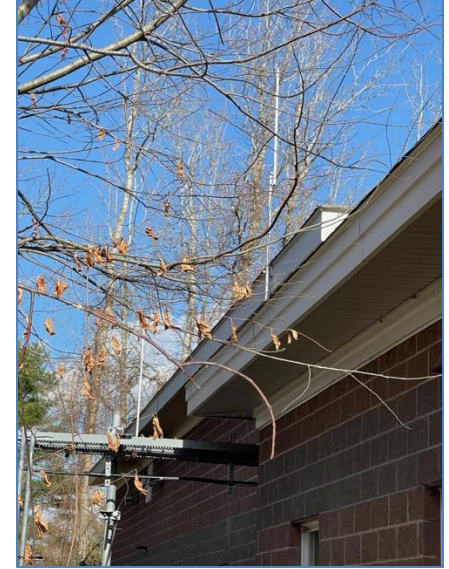
Black Point Engine-1 Station Scarborough

ENGINE-1

- Located at 341 Black Point Rd, Scarborough
- The Town has an 80' flagpole-type monopole located at this site
- The structure is registered with the FCC as ASR #1311352
- The monopole is leased to US Cellular
- The Town has no antennas on the monopole but has pre-installed antennas and transmission lines for future use
- There is no radio infrastructure radio equipment located at this site
- Radio communications are for local Engine-1 communications and vocal alarms with roof-mounted antennas
- There is a fiber optic cable for network equipment at this location connecting to the PSB
- Radio and fiber equipment is installed in a large secure room on the main floor with sufficient space for additional equipment
- The site has UPS backup power
- The site has an 25 kW emergency generator



Black Point Engine-1 Station Scarborough



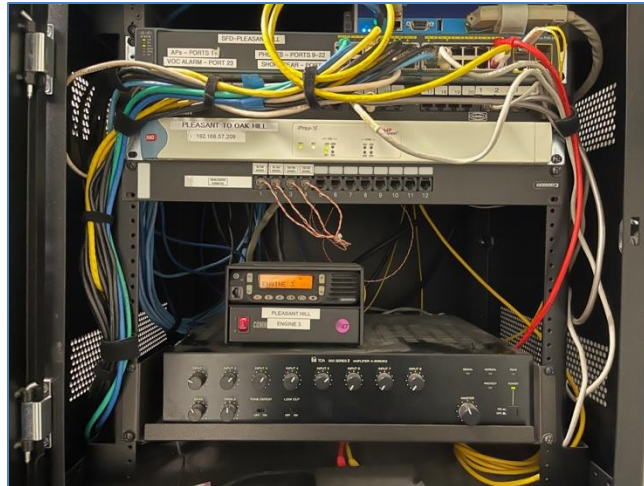
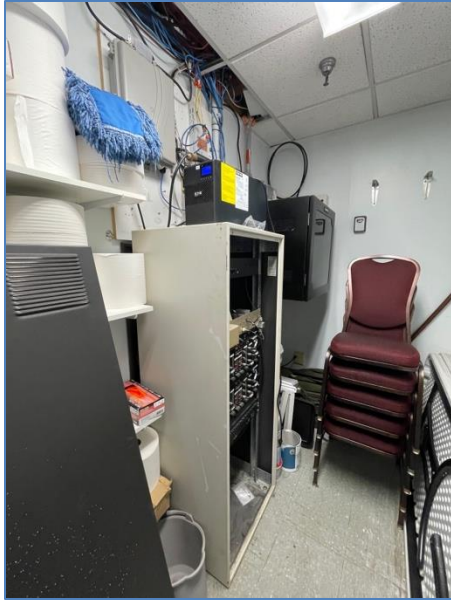
Pleasant St Engine-3 Station Scarborough

ENGINE-3

- Located at 207 Pleasant Hill Rd, Scarborough
- The Town has a 70' flagpole-type monopole located at this site
- The structure is registered with the FCC as ASR #1311352
- The monopole is leased to US Cellular
- The Town has no antennas on the monopole
- The site has four [4] receivers: PD Prime & TAC; FD Prime & TAC mounted in a cabinet with roof-mounted antennas
- There is no Town radio infrastructure radio equipment located at this site
- Radio communications for local Engine-3 communications and vocal alarm antennas are roof-mounted
- There is a fiber optic cable for network equipment at this location connecting to the PSB
- Radio and fiber equipment is installed in a 6 x 8 secure room on the second floor
- The site has UPS backup power
- The site has a 30 kW emergency generator



Pleasant St Engine-3 Station Scarborough



Pine Point Engine-4 Station Scarborough

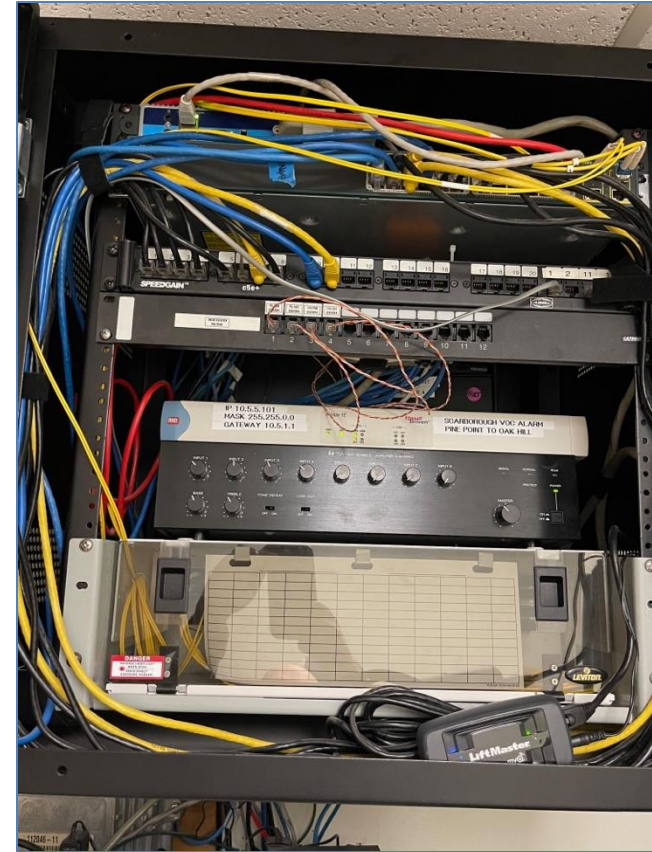
ENGINE-4

- Located at 12 King Street, Scarborough
- The Town has roof-mounted antennas at this site at the 30' level
- There is a fiber optic cable for network equipment at this location connecting to the PSB
- The site has four [4] receivers: PD Prime & TAC; FD Prime & TAC mounted in a cabinet
- Other radio communications are for local Engine-5 communications and vocal alarm
- Radio and fiber equipment is installed in a ~ 5 x 8 secure room on the second floor
- The site has UPS backup power
- The site has an 25 kW emergency generator



Report on Scarborough Mission Critical Radio Systems / SITE DIRECTORY

Pine Point Engine-4 Station Scarborough



North Scarborough Engine-5 Station Scarborough

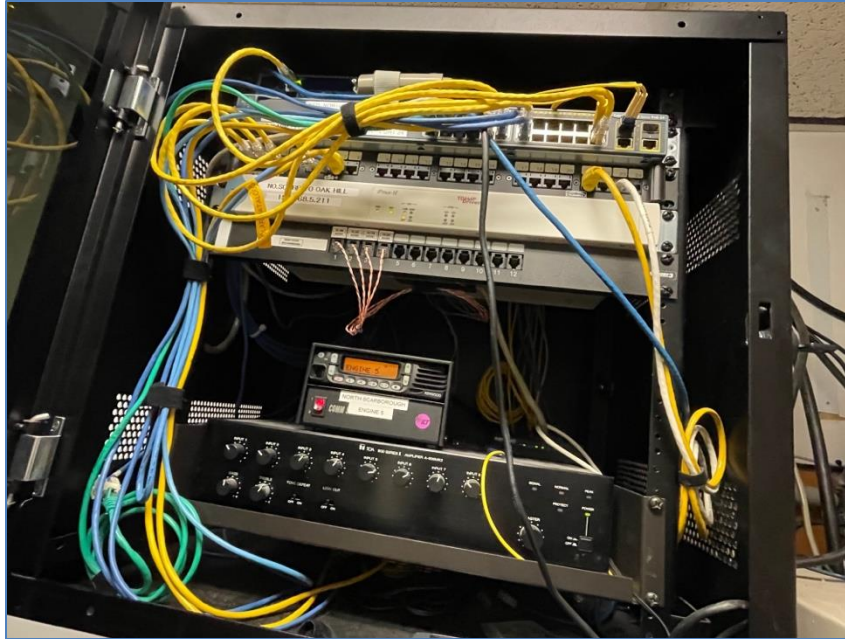
ENGINE-5

- Located at 16 Saco St, Scarborough
- There is an approximate 50' building bracketed tower
- There is a fiber optic cable for network equipment at this location connecting to the PSB
- The site has four [4] receivers: PD Prime & TAC; FD Prime & TAC installed in a cabinet
- Other radio communications is for local Engine-5 communications and vocal alarm
- Radio and fiber equipment is installed in an approx.. 6 x 12 secure room on the second floor that is also used for storage
- The site has UPS backup power
- The site has an emergency generator



Report on Scarborough Mission Critical Radio Systems / SITE DIRECTORY

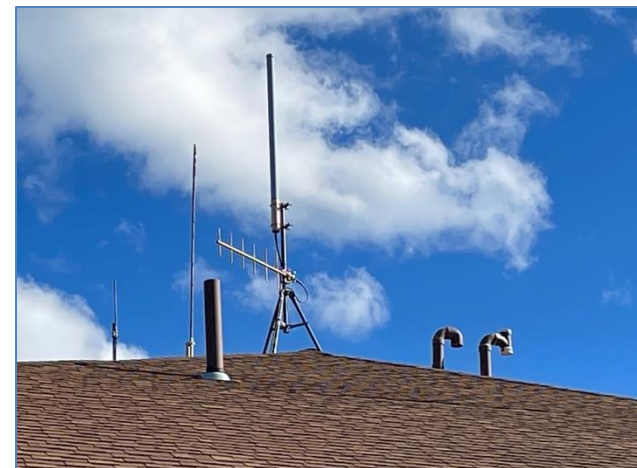
North Scarborough Engine-5 Station Scarborough



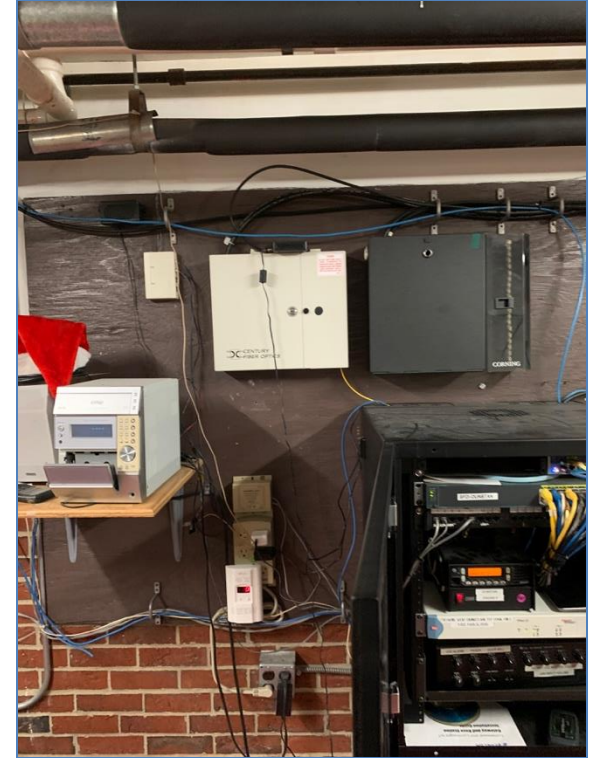
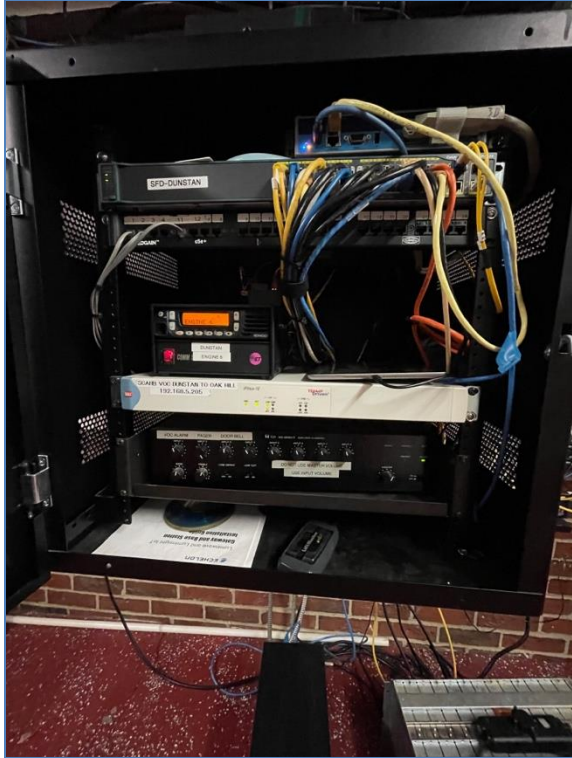
Dunstan Engine-6 Scarborough

DUNSTAN

- Located at 639 US Route-1, Scarborough
- There is no monopole structure at this location as with other town FD stations
- Rooftop antennas at this site are for local communications only, approximately 30'
- There is no Town radio infrastructure radio equipment located at this site
- Radio communications are for local Engine-1 communications and vocal alarm
- There is a fiber optic cable for network equipment at this location connecting to the PSB
- Radio and fiber equipment is installed in a large secure room
- The site has UPS backup power
- The site has a 75 kW emergency generator



Dunstan Engine-6 Scarborough



Scottow Hill

SCOTTOW HILL

- Located at Two Rod Rd, Scarborough
- There is a 260' guyed tower owned by World Towers
- The structure is registered with the FCC as ASR #1007523
- Scarborough leases tower and shelter equipment space from World Towers
- There are no PD, FD or municipal radios at this site
- This site is used as a microwave relay only connecting the PSB tower to the Springbrook monopole
- The microwave equipment operates in the 4.9 GHz band, is manufactured by RAD, Inc., and utilizes rectangular panel antennas
- Radio equipment is installed in a secure 16 x 16 equipment shelter
- The shelter is contaminated with rodent waste and requires thorough cleaning and effective rodent-proofing measures
- The site has UPS backup power
- The site has an emergency generator
- The site has a grounding and lightning protection system in place



Report on Scarborough Mission Critical Radio Systems / SITE DIRECTORY

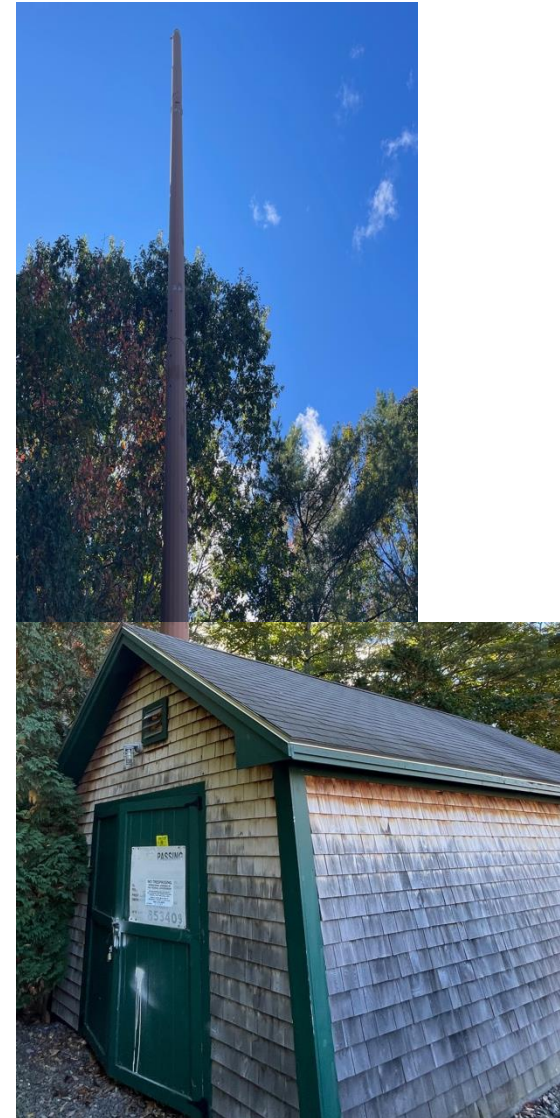
Scottow Hill



Springbrook Scarborough

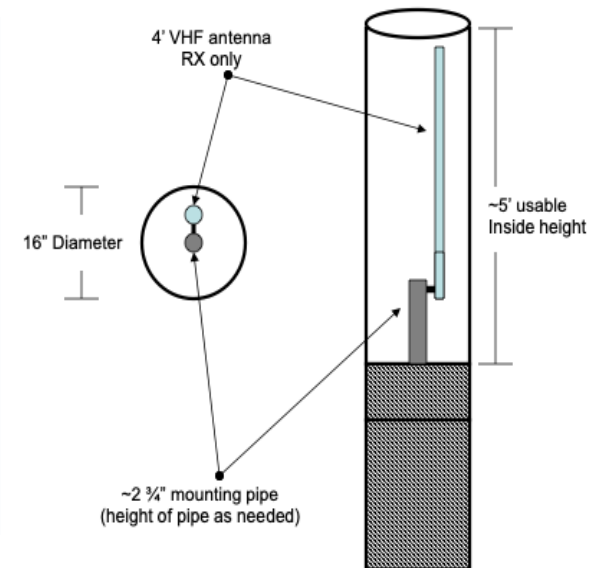
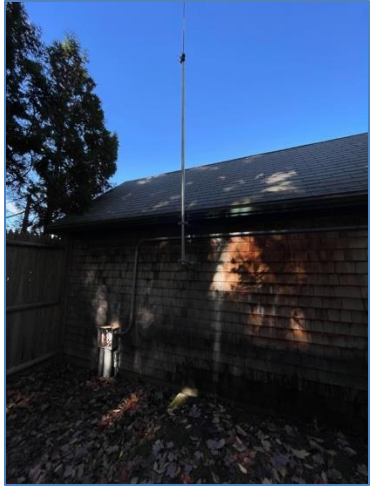
SPRINGBROOK

- Located at 15 Long Meadow Rd, Scarborough
- The Town has an 90' flagpole-type monopole located at this site
- The structure is registered with the FCC as ASR #1250559
- The monopole is leased to US Cellular
- The site has four [4] receivers: PD Prime & TAC; FD Prime & TAC installed in a cabinet
- There is microwave equipment operating in the 4.9 GHz band manufactured by RAD connected to the PSB via Scottow Hill relay
- Microwave antenna is a rectangular panel installed inside the monopole
- The radio antenna is mounted on the side of the shelter
- Radio equipment is installed in an ~ 8 x 12 secure room on the main floor
- The site has UPS backup power
- The site has an emergency generator



Report on Scarborough Mission Critical Radio Systems / SITE DIRECTORY

Springbrook Scarborough



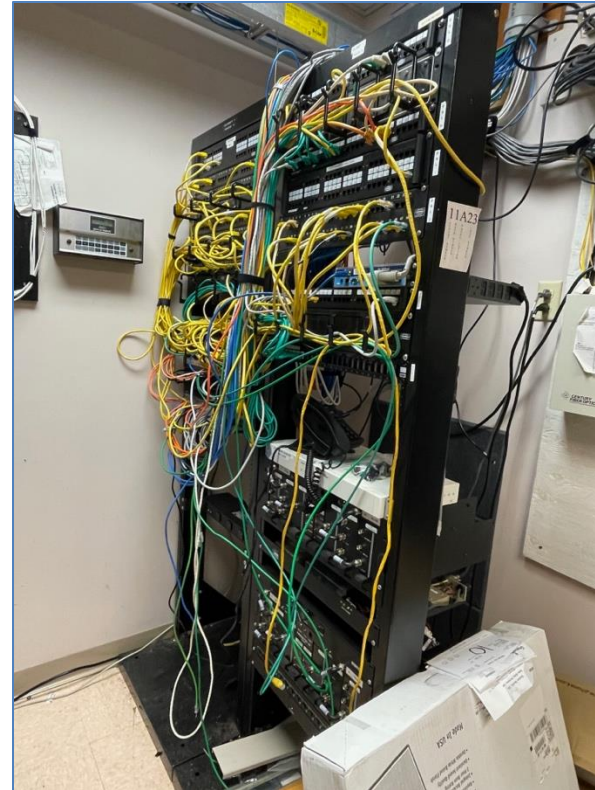
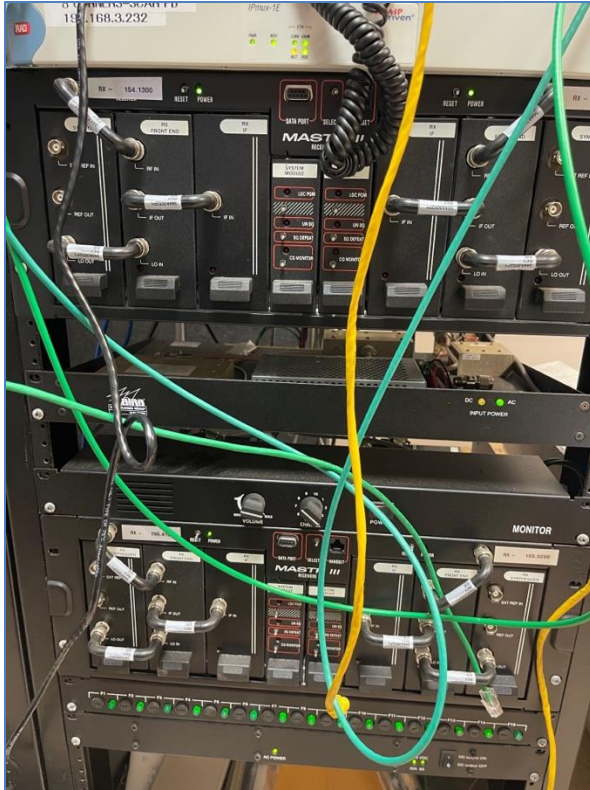
Eight Corners School Scarborough

EIGHT CORNERS SCHOOL

- Located at 2 Mussey Rd, Scarborough
- Antenna is mounted on the school roof approximately at 30'
- The site has four [4] receivers: PD Prime & TAC; FD Prime & TAC installed in a cabinet
- There is a fiber optic cable for network equipment at this location connecting to the PSB
- Radio and fiber equipment is installed in a 8 x 10 secure room on the main floor
- The site has UPS backup power
- The site has an emergency generator



Eight Corners School Scarborough



**OVERVIEW OF EXISTING
OLD ORCHARD BEACH
TRANSMITTER SITE FACILITIES**

Old Orchard Beach Fire Department

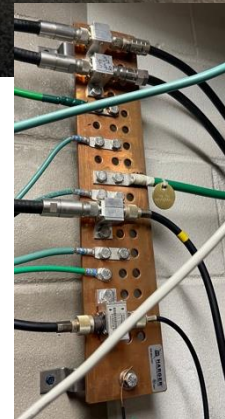
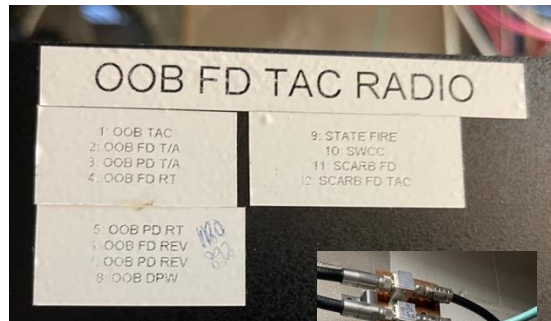
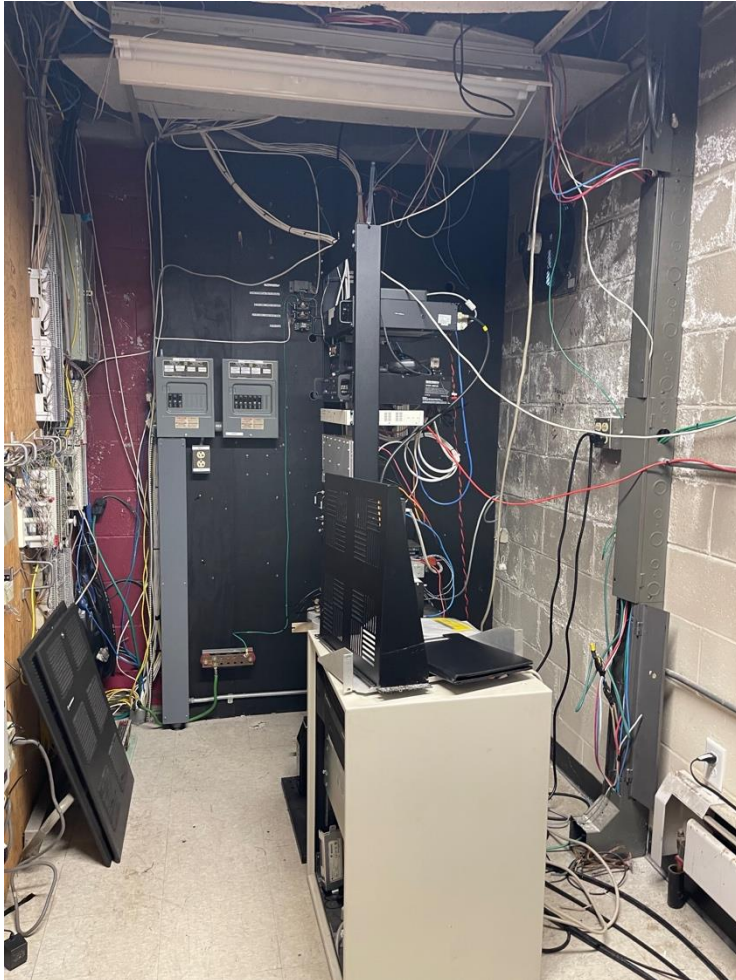
OOB FD

- Locate at 136 Saco Ave, Old Orchard Beach
- There is an approximate 60' building mounted guyed tower
- All Town department's repeater and base station radios equipment are installed here
- Radio equipment is installed in a secure ~6 x 10 equipment room on the second floor
- The site is interconnected to the Scarborough PSB with network fiber for dispatch control of OOB radio equipment
- The site has UPS backup power
- The site has an emergency generator
- The site has a grounding and lightning protection system in place



Report on Scarborough Mission Critical Radio Systems / SITE DIRECTORY

Old Orchard Beach Fire Department



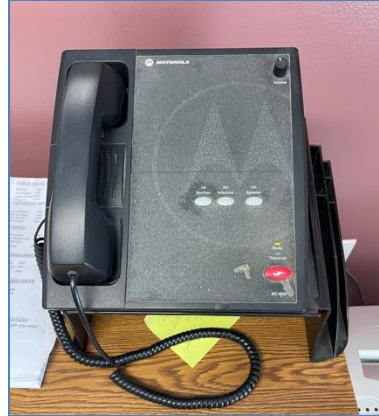
Old Orchard Public Works

OOB PUBLIC WORKS

- Located at 103 Smithwheel Rd, Old Orchard Beach
- There is an approximate 60' building bracketed tower
- The tower needs repair or replacement due to damage at base
- The site is used as a Police voting receiver site and a base station site for the DPW communications
- The base station is interfaced with a telephone type radio remote control unit
- There is a UHF link back to the FD HQ where the voter equipment is located
- Radio equipment is installed on a shelf in the garage bay
- The site has UPS backup power
- The site has an emergency generator



Old Orchard Public Works



Old Orchard Wastewater Department

OOB WASTEWATER DEPT

- Located at Ross Rd Pump Station, Old Orchard Beach
- There is an approximate 50' building bracketed tower
- The site is only used for pump station SCADA control
- UHF Radio SCADA equipment is installed in a cabinet inside an empty room of the pump station
- The site has UPS backup power
- The site has an emergency generator



Old Orchard Wastewater Department



Old Orchard Town Hall

OOB TOWN HALL

- Located at 1 Portland Ave, Old Orchard Beach
- Antennas are mounted on the rooftop at approx. 50'
- The site serves solely as a police voting receiver, connected to the Fire Department headquarters via a UHF link.
- The site has UPS backup power
- The site has an emergency generator

