T-Mobile Project Summary – GSA Headquarters (7WDC400C)

1800 F Street NW, Washington, DC 20006

October 9, 2026

T-Mobile Project Summary – GSA Headquarters Building

- The GSA Headquarters Building is located at 18th Street and F Street NW, with an address of 1800 F Street NW Washington, DC 20006. This site services areas near the White House and the National Mall.
- The GSA Headquarters Building is scheduled to undergo major renovation over the next 3 years, including removal and replacement of the west and north sections of the roof. GSA has requested that T-Mobile temporarily relocate two (2) of their antenna sectors currently located on the west and north portions of the roof.
- T-Mobile is proposing to relocate Sector 1 antennas from the NE elevator penthouse to the existing T-Mobile equipment platform.
- T-Mobile is proposing to relocate Sector 3 antennas from the NW elevator penthouse to the southern elevator penthouse (new section of the building)
- The antenna relocation will be temporary. T-Mobile will relocate antenna Sector 1 and antenna Sector 3 back to the NE & NW elevator towers once the building renovations have been completed at 1800 F Street.



T-Mobile Project Description – GSA Headquarters Building

- GSA has requested that T-Mobile relocate two (2) of their antenna sectors currently located on the west and north portions of the roof and remove all cable trays.
- T-Mobile is proposing to relocate Sector 1 antennas from the NE elevator penthouse to the existing T-Mobile equipment platform.
- T-Mobile is proposing to relocate Sector 3 antennas from the NW elevator penthouse to the southern elevator penthouse (new section of the building)
- T-Mobile is proposing to remove Sector 4 antennas
- T-Mobile will remove all cable trays and relocate the cables from the north side of the roof.
- The relocation of the antennas and cables will not adversely affect the viewshed. All antennas and ancillary equipment will be painted to match the exterior façade of the building structure if needed.

T-Mobile Scope of Work – GSA Headquarters Building

- Sector 1: Remove: one (1) Air1641 antenna and one (1) RRU 4424. Remove cable trays.
  Relocate to existing equipment platform: one (1) Air6449 antenna, one (1) APXVAARR24 antenna,
  one (1) RRU 4449 and two (2) 6x12 hybrid lines.
  Install one (1) RRU 4460. Install two (2) pipe mounts to the equipment platform railings (no roof penetrations)

- Sector 2: Remains the Same

- Sector 3: Remove: one (1) Air32 antenna and one (1) RRU4424. Remove cable trays.
  Relocate to southern penthouse: one (1) Air6449 antenna, one (1) APXVAARR24 antenna,
  one (1) RRU 4449 and two (2) 6x12 hybrid lines.
  Install one (1) RRU 4460. Install two (2) ballast mounts (no roof penetrations)

- Sector 4: Remove one (1) Air1641 antenna, one (1) Air6449 antenna, one (1) APXVAARR24 antenna, one (1) RRU 4449, one (1) RRU 4424

- Construction timeframe: 5-7 days

GSA Approval Dates for Existing T-Mobile Equipment at GSA Headquarters Building

Antennas:

(3) Ericsson Air1641 – July 2020

- (3) Ericsson Air6449 Panel Antennas- July 2020
- (4) Ericsson APXVAARR24 Panel Antennas – July 2020
- (1) Ericsson Air32 Panel Antenna – July 2020

Radios:

- (4) Ericsson Radio 4442 – July 2020
- (4) Ericsson Radio 4449 – July 2020

Cabinets (148sf platform):

- (1) Ericsson 6160 – July 2020
- (1) Ericsson B160 – July 2020
- (2) Ericsson RAC35 - July 2020

T-Mobile Existing Equipment vs. Proposed Equipment

Existing Antenna Equipment

Total Equipment across all sectors = 12 panel antennas, 8 RRUs and 8 hybrid cables. 148sf equipment platform.

Sector 1: 3 panel antennas, 2 RRUs and 2 shared hybrid cable.

Sector 2: 3 panel antennas, 2 RRUs and 2 shared hybrid cable

Sector 3: 4 panel antennas, 2 RRUs and 2 shared hybrid cables

Sector 4: 4 panel antennas, 2 RRUs and 2 shared hybrid cables

Proposed Antenna Equipment

Total Equipment across all sectors = 12 panel antennas, 6 RRUs and 8 hybrid cables. 148sf equipment platform.

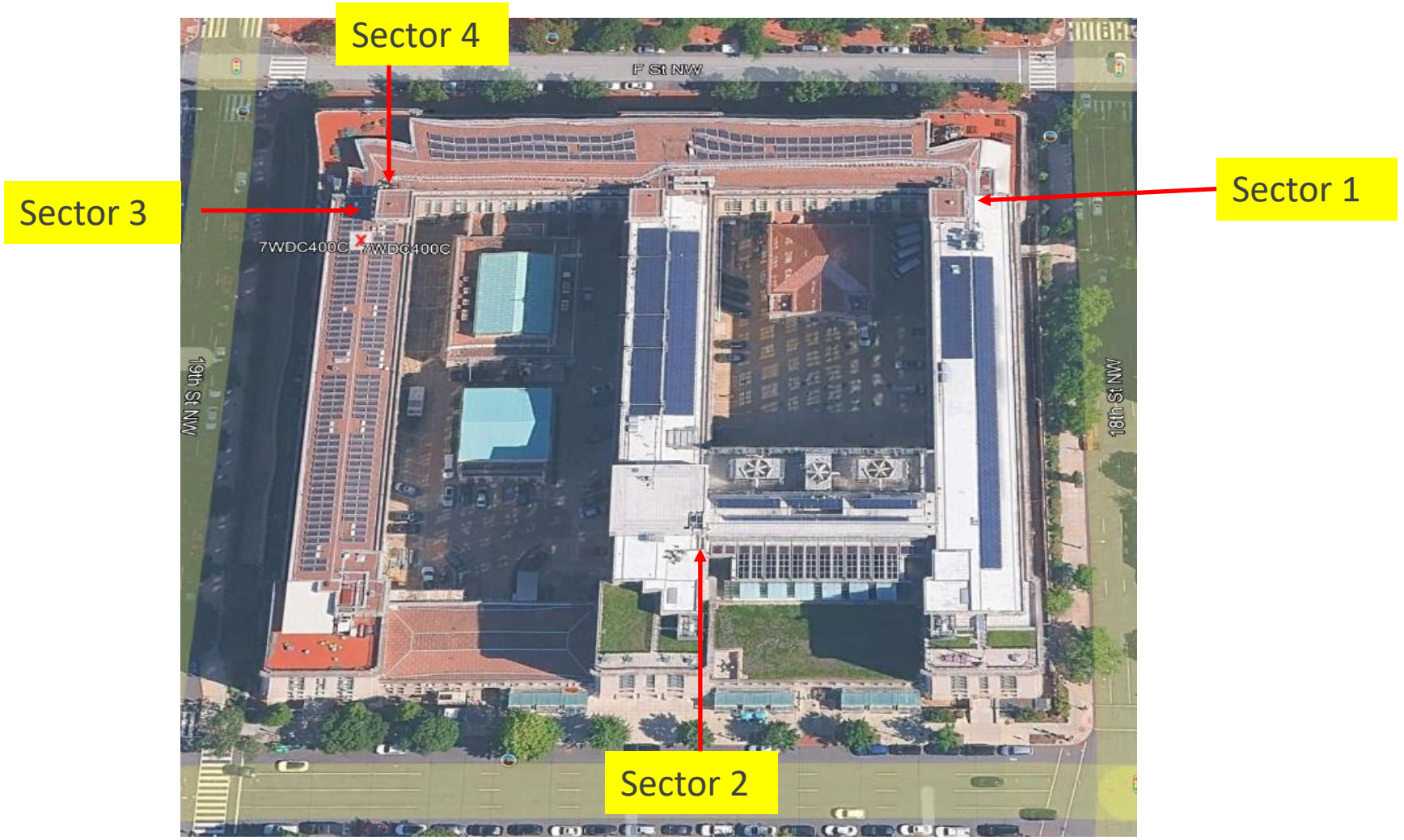
Sector 1: 2 panel antennas, 2 RRUs and 2 shared hybrid cable. (Relocated)

Sector 2: 3 panel antennas, 2 RRUs and 2 shared hybrid cable. (Remain)

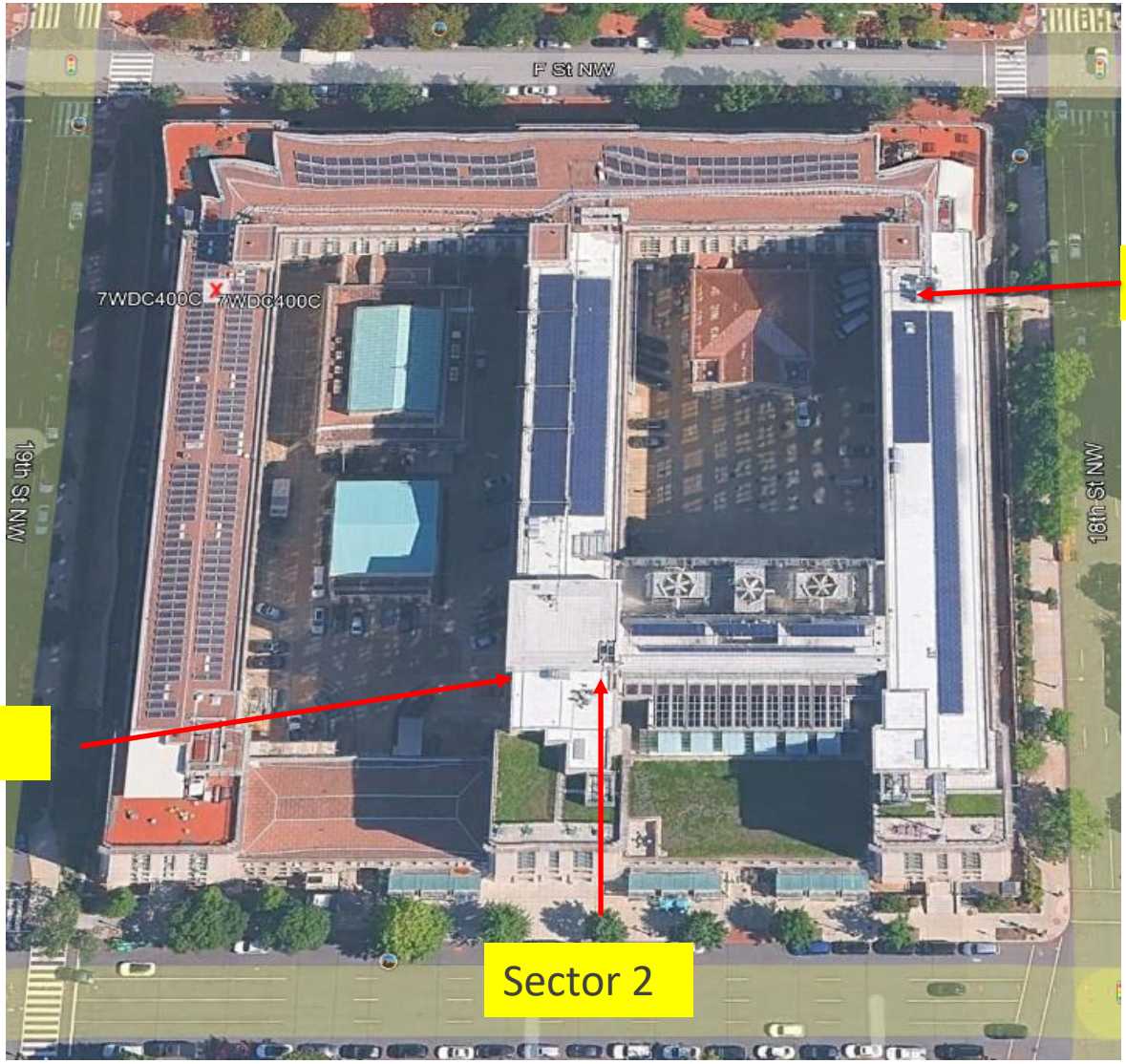
Sector 3: 2 panel antennas, 2 RRUs and 2 shared hybrid cables. (Relocated)

Sector 4: To be removed

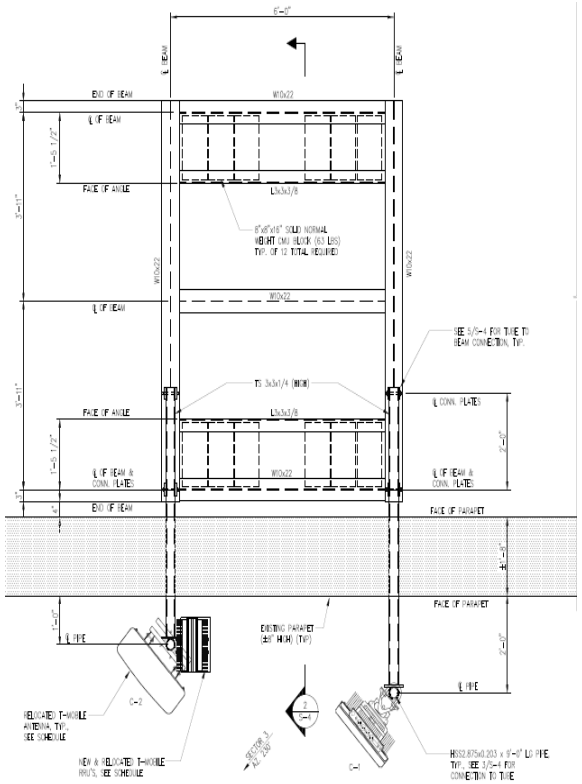
T-Mobile Existing Antenna Location – GSA Headquarters Building

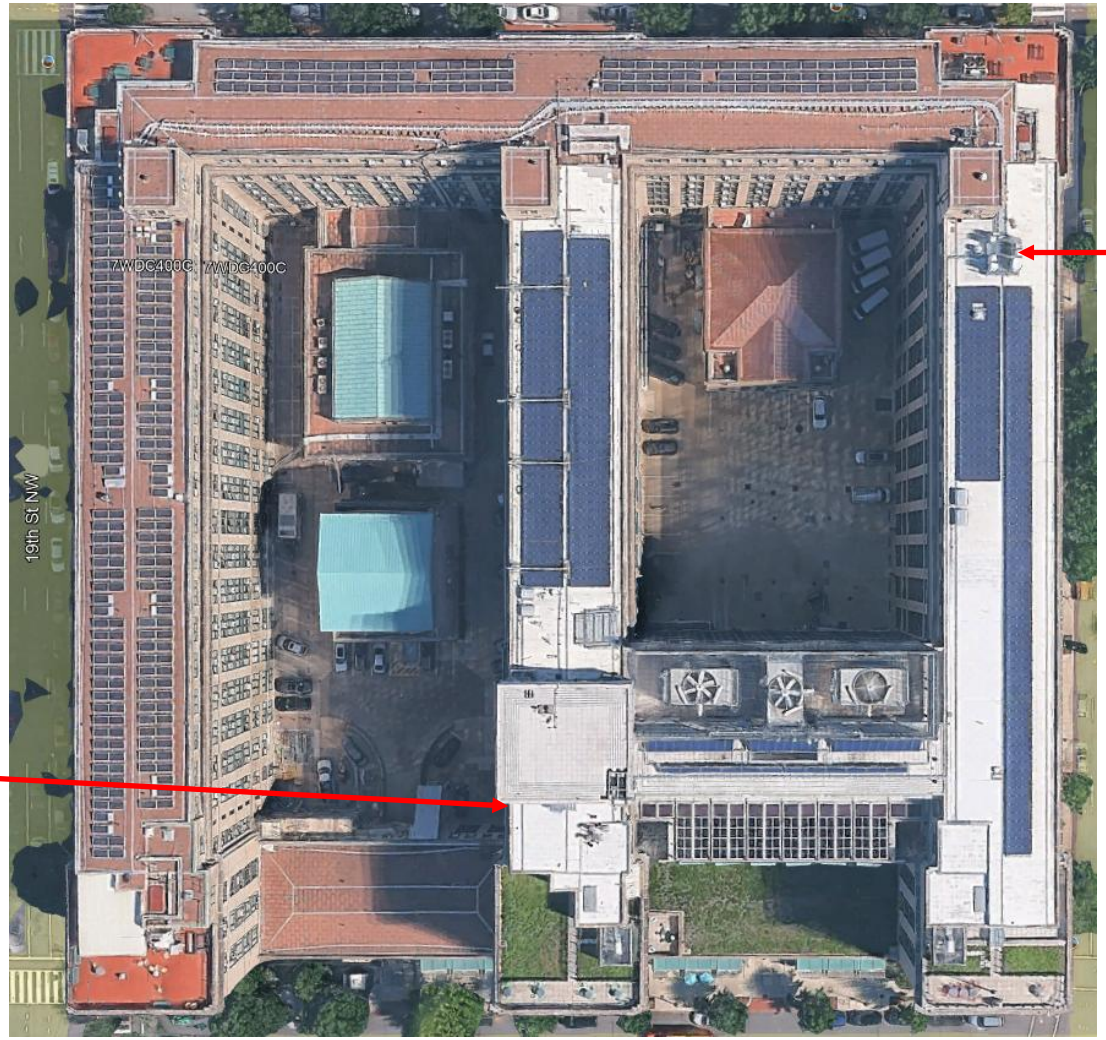


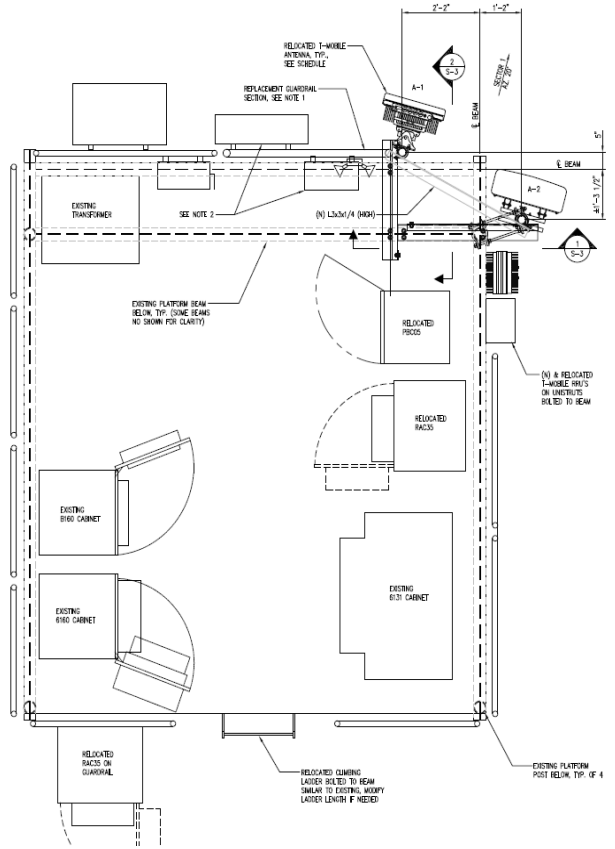
T-Mobile Proposed Antenna Location – GSA Headquarters Building



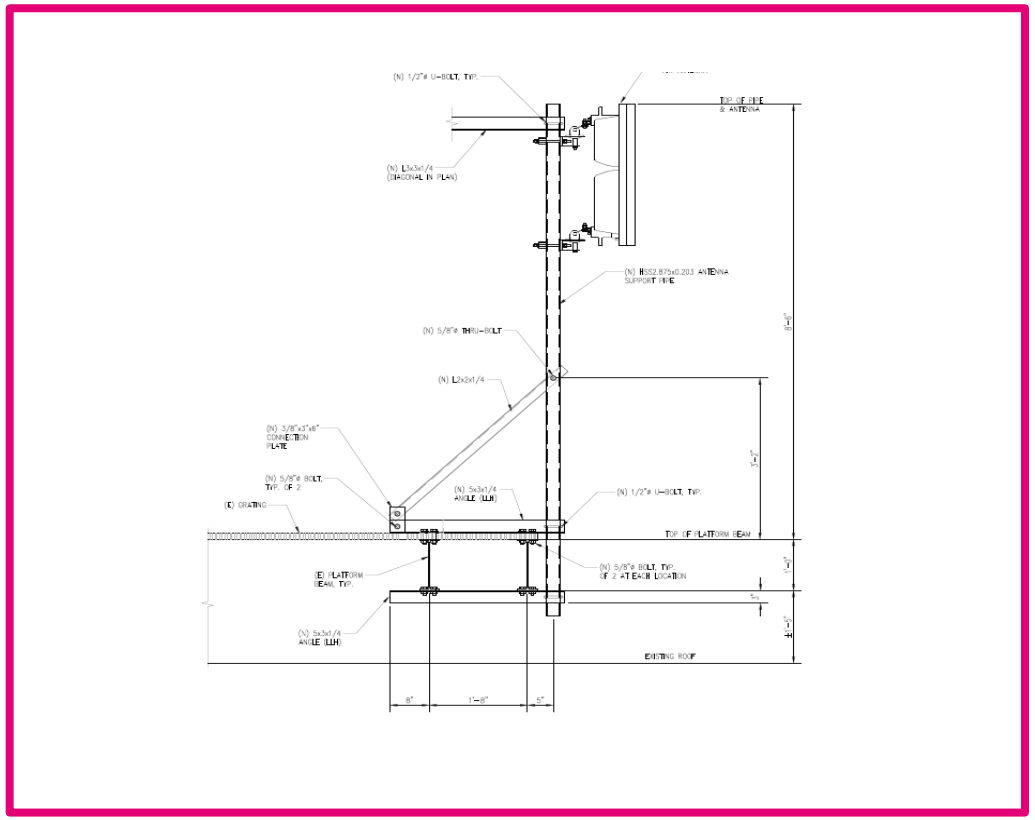
T-Mobile Proposed Equipment Installation - GSA Headquarters Building



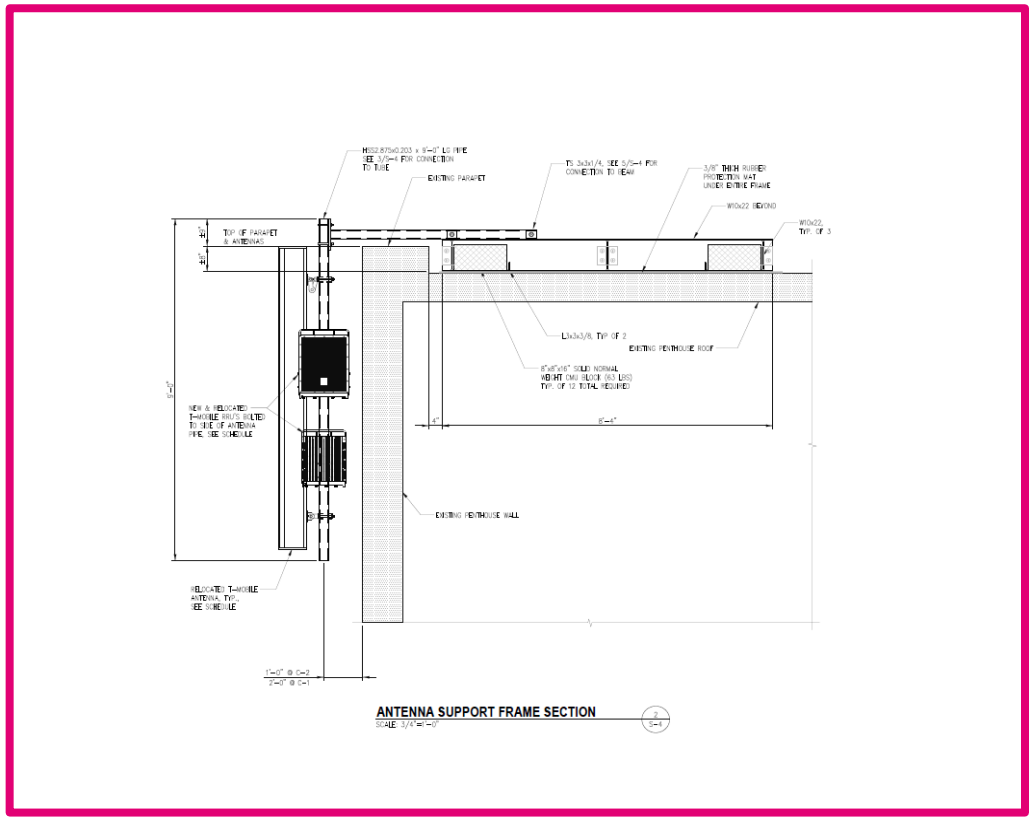




Proposed Mount Design



Sector 1 – Pipe Mount on Railing



Sector 3 - Antenna Support Frame – Ballast Mount

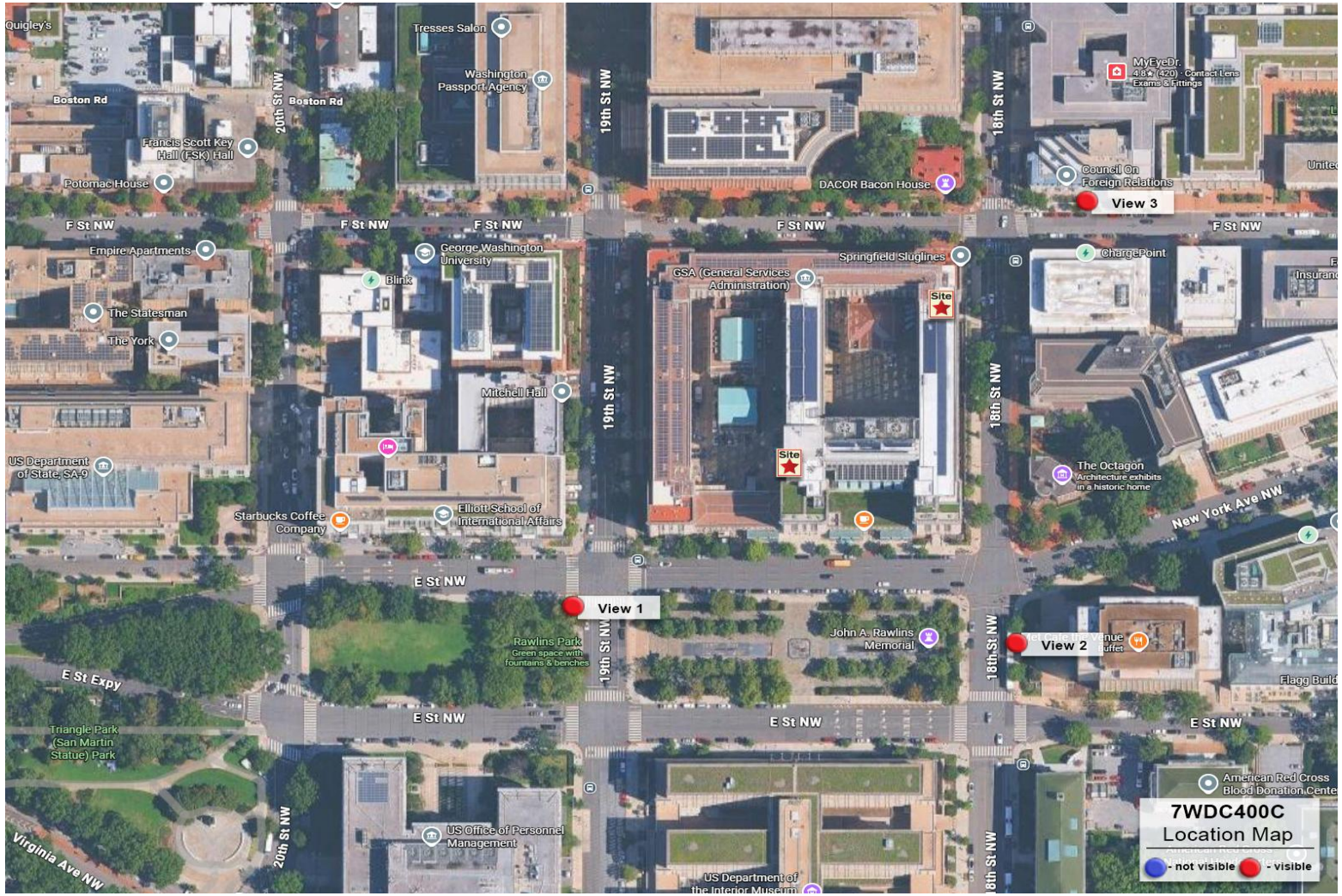
T-Mobile GSA Building Construction Schedule – Antenna Relocation

- Final Construction Schedule to be determined
- T-Mobile to coordinate construction with Verizon and GSA Construction Lead

Tentative Schedule:

- Day 1: Remove Cable Trays, Remove Sector 4 Antennas and RRUs
- Day 2: Crane – Remove Cable Trays, Antennas, RRUs and unused cabling
- Day 3: Install Sector 3 ballast mounts and install Sector 1 pipe mounts
- Day 4: Relocate Sector 1 & 3 Antennas
- Day 4 & 5: Integration and trouble shooting
- Day 6 & 7: Clean up

T-Mobile Photo Sims GSA Headquarters Building– Location Map



T-Mobile Existing vs. Proposed (View 1- SW Sectors 2 & 3)



Existing



Photo Sim

T-Mobile Existing vs. Proposed (View 1- SW Sectors 2 & 3) Close up View



Existing



Photo Sim

T-Mobile Existing vs. Proposed (View 2-SE Sectors 2 & 3)



Existing



Photo Sim

T-Mobile Existing vs. Proposed (View 2-SE Sectors 2 & 3) Close up View



Existing

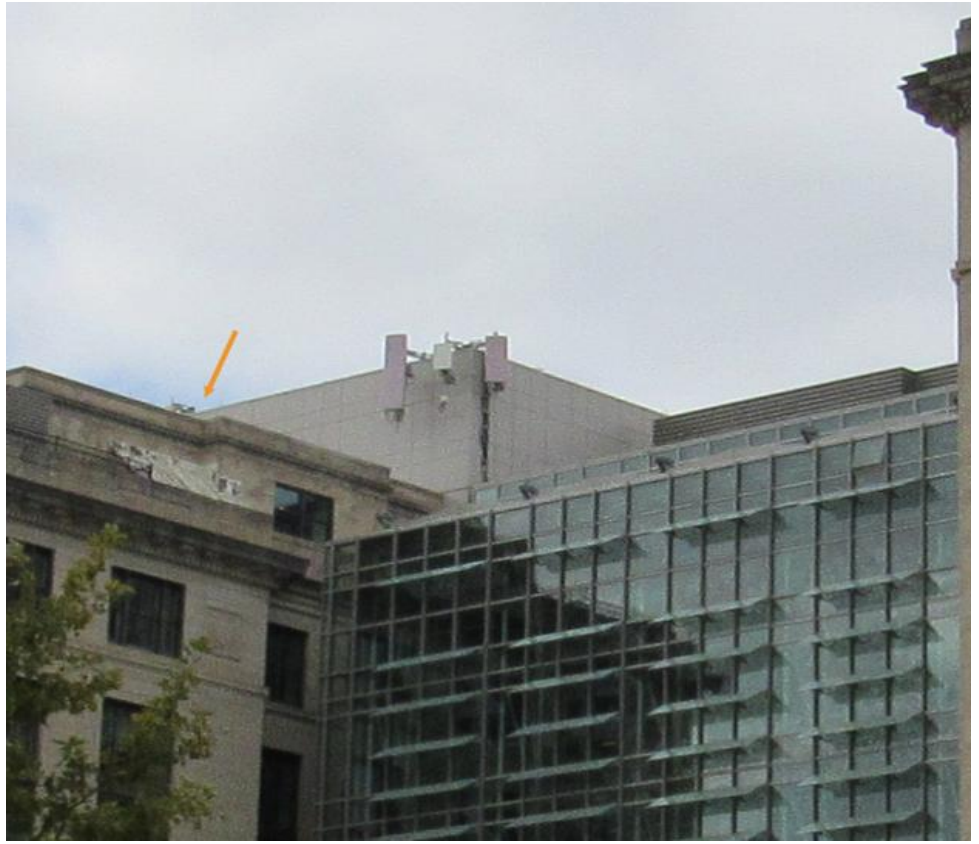


Photo Sim

T-Mobile Existing vs. Proposed (View 3-NE Sector 1)



Existing



Photo Sim

T-Mobile Existing vs. Proposed (View 3-NE Sector 1) Close up View

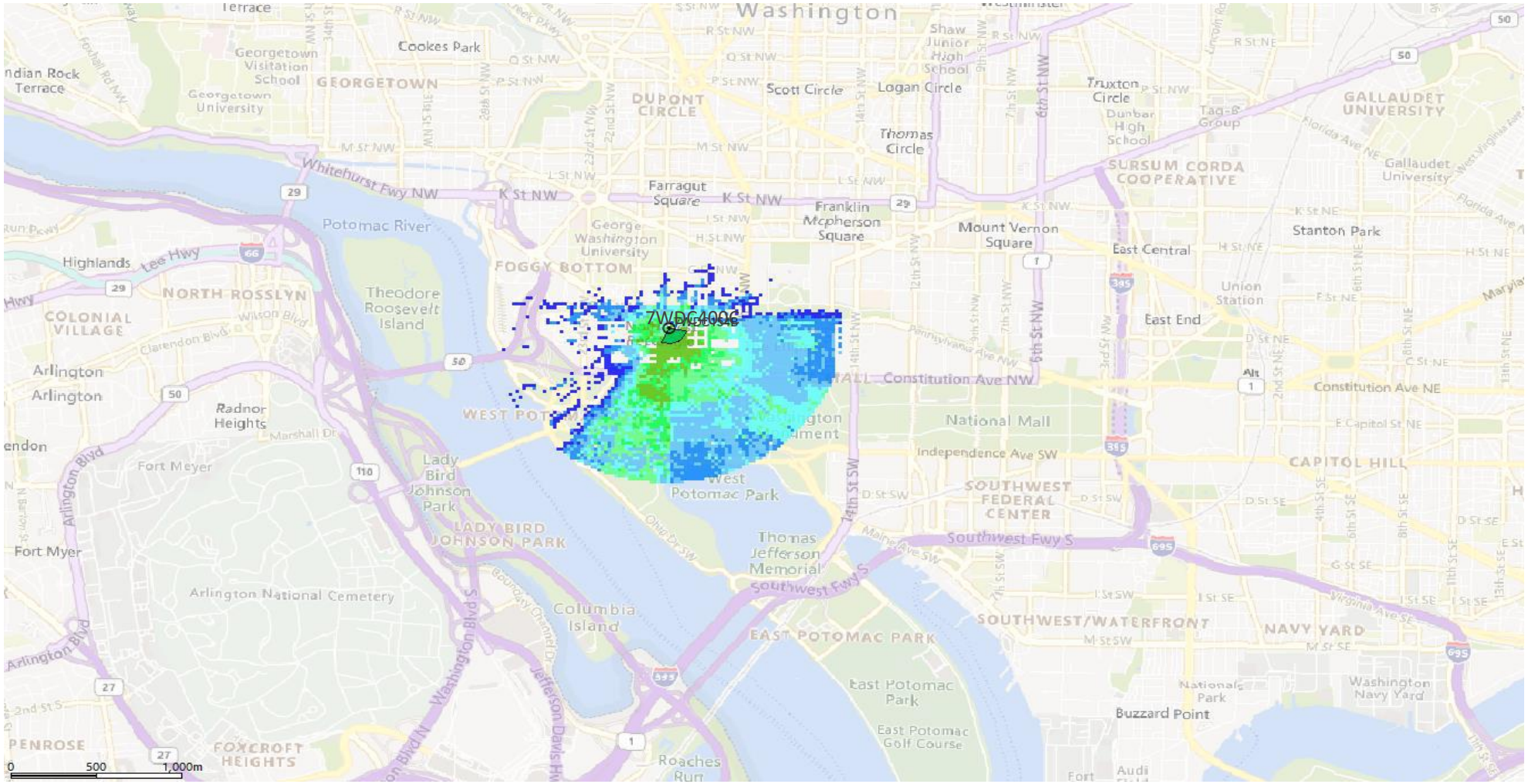


Existing



Photo Sim

7WDC400C GSA Headquarters Building Coverage (Zoom in View)



T-Mobile Frequencies/Spectrum

Tech	Band	Bandwidth	DL Center Freq (Mhz)	UL Center Freq (Mhz)	
LTE	L2100	20	2145	1745	
LTE	L1900	15	1937.5	1857.5	
LTE	L700	5	731.5	701.5	
LTE	L600	5	619.5	665.5	
NR	N71	20	632	678	
NR	N41	100	2640	2640	
NR	N41	90	2545.29	2545.29	
NR	N1900	10	1970	1890	
NR	N1900	5	1992.5	1912.5	
NR	N258	100	24300	24300	mmWave
NR	N258	100	24400	24400	mmWave
NR	N258	100	24800	24800	mmWave
NR	N258	100	24900	24900	mmWave
NR	N258	100	25000	25000	mmWave
NR	N258	100	25100	25100	mmWave
NR	N258	100	25200	25200	mmWave