



at&t

**AT&T Modifications to Existing Wireless Facility
Boston College Residence Hall
2000 Commonwealth Avenue
Presentation to
The Aberdeen Architectural Conservation District Commission
Design Review App. # 20.1005
May 14, 2020 @ 4:00 p.m.
Boston City Hall – Zoom Meeting**

Edward D. Pare, Jr., Esq.



Site Modifications

Upgrading existing facility, increasing from 9 to 12 antennas

Two (2) sectors of antennas on equipment shelter

adding 1 antenna per sector, same height

One (1) sector installed diagonally in corner of penthouse

Antennas emit in direction of roof/HVAC equipment

Relocate that sector to the roof (alternative designs)

ballast mount antennas, or

fiberglass enclosure (red brick or gray)

Actual View




2000 COMMONWEALTH AVENUE
Photo 2A
View Facing West
From Commonwealth Avenue
(Page 5 of 11)

 **Dewberry**

Proposed View

Proposed 9' Tall Fiberglass Screenwall Concealing Relocated Beta Sector Antennas



2000 COMMONWEALTH AVENUE
Photo 2B
View Facing West
From Commonwealth Avenue
(Page 6 of 11)



Proposed View

Proposed 9' Tall Fiberglass Screenwall Concealing Relocated Beta Sector Antennas




2000 COMMONWEALTH AVENUE
Photo 2C
View Facing West
From Commonwealth Avenue
(Page 7 of 11)

 **Dewberry**

Proposed View

Proposed Ballast Frame (Typ.-1)




2000 COMMONWEALTH AVENUE
Photo 2B
View Facing West
From Commonwealth Avenue
(Page 5 of 9)

 **Dewberry**

Actual View



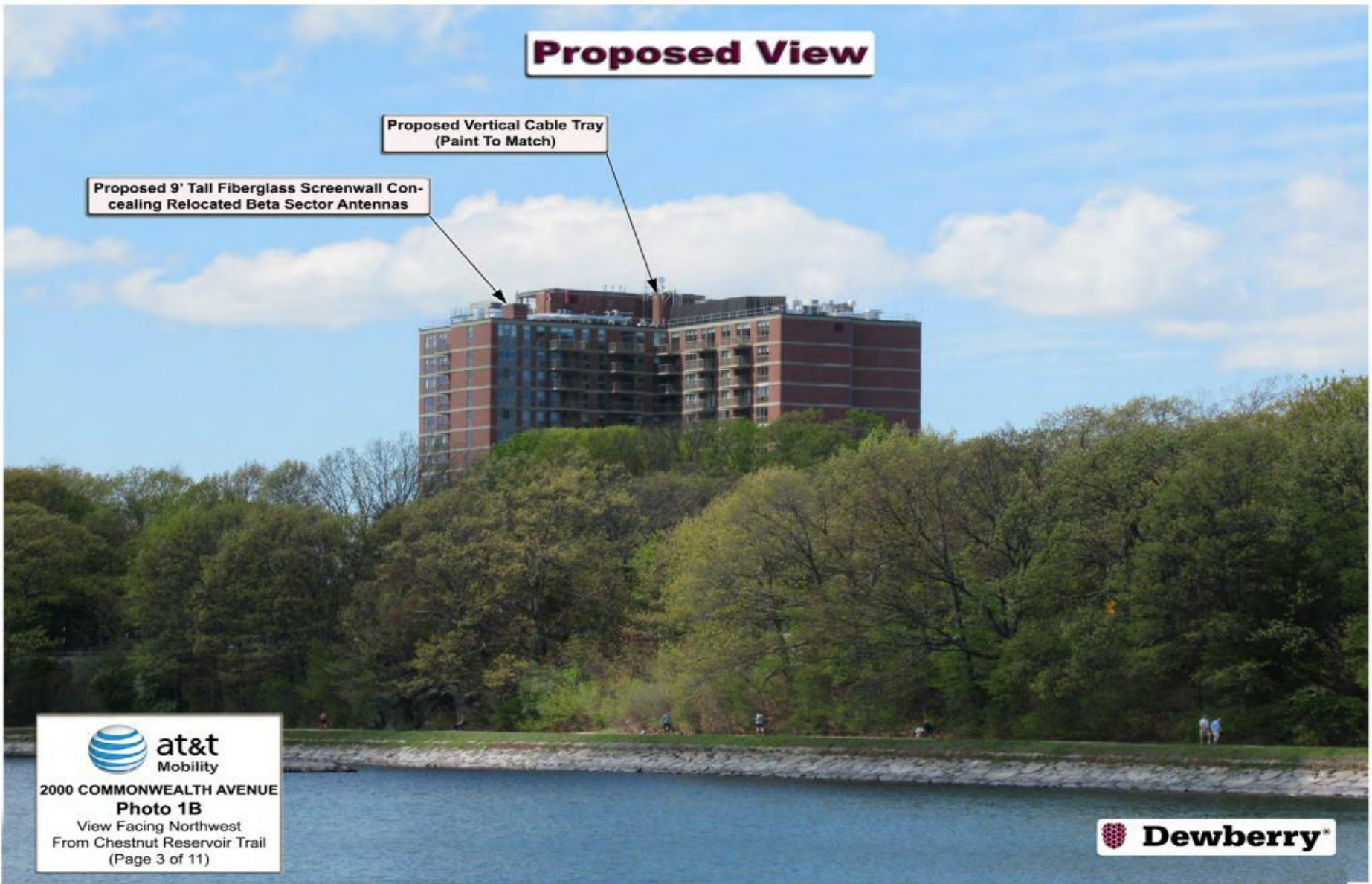

2000 COMMONWEALTH AVENUE
Photo 1A
View Facing Northwest
From Chestnut Reservoir Trail
(Page 2 of 11)



Proposed View

Proposed Vertical Cable Tray
(Paint To Match)

Proposed 9' Tall Fiberglass Screenwall Con-
cealing Relocated Beta Sector Antennas



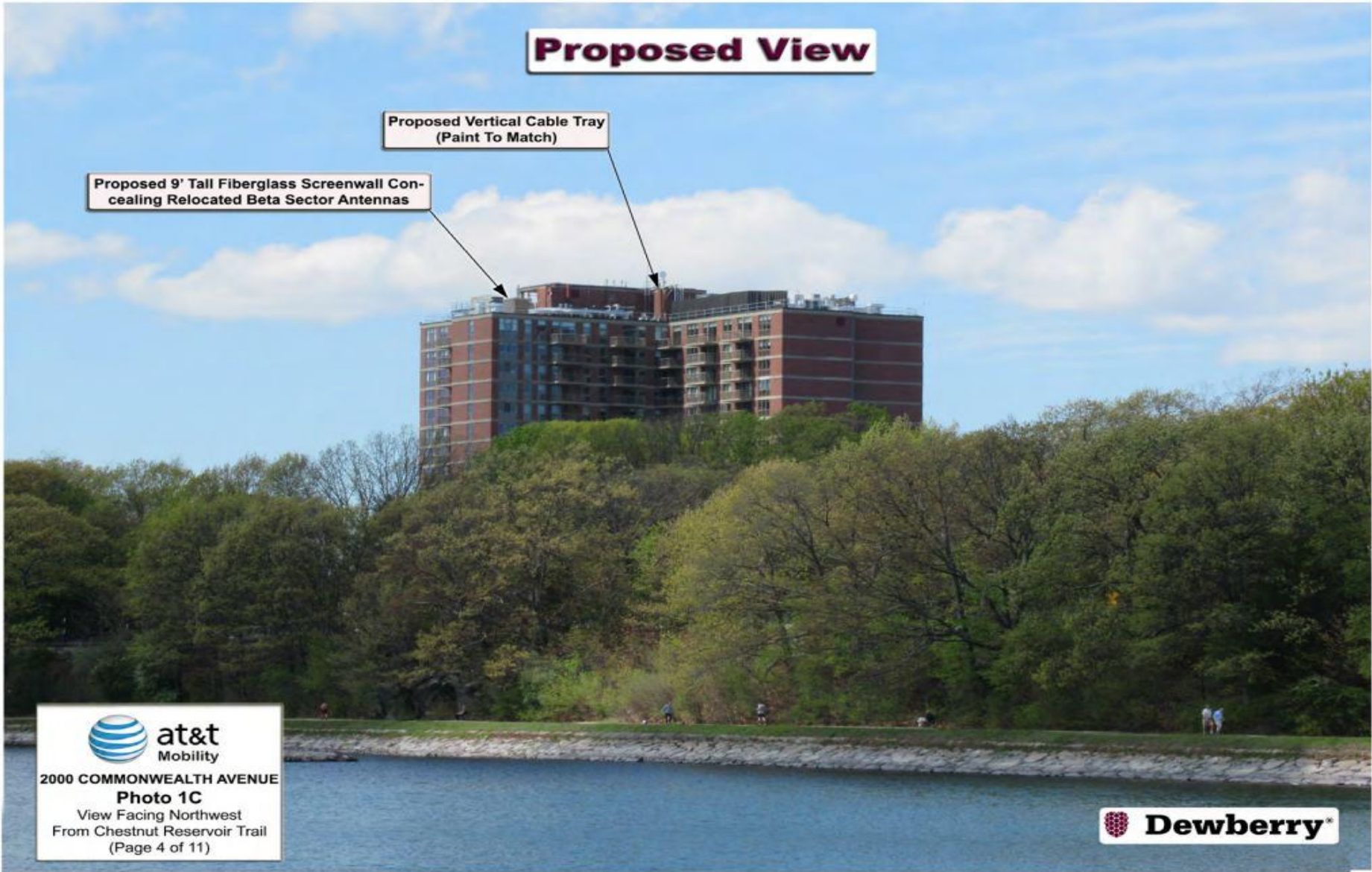

2000 COMMONWEALTH AVENUE
Photo 1B
View Facing Northwest
From Chestnut Reservoir Trail
(Page 3 of 11)



Proposed View

Proposed Vertical Cable Tray
(Paint To Match)

Proposed 9' Tall Fiberglass Screenwall Con-
cealing Relocated Beta Sector Antennas



2000 COMMONWEALTH AVENUE

Photo 1C

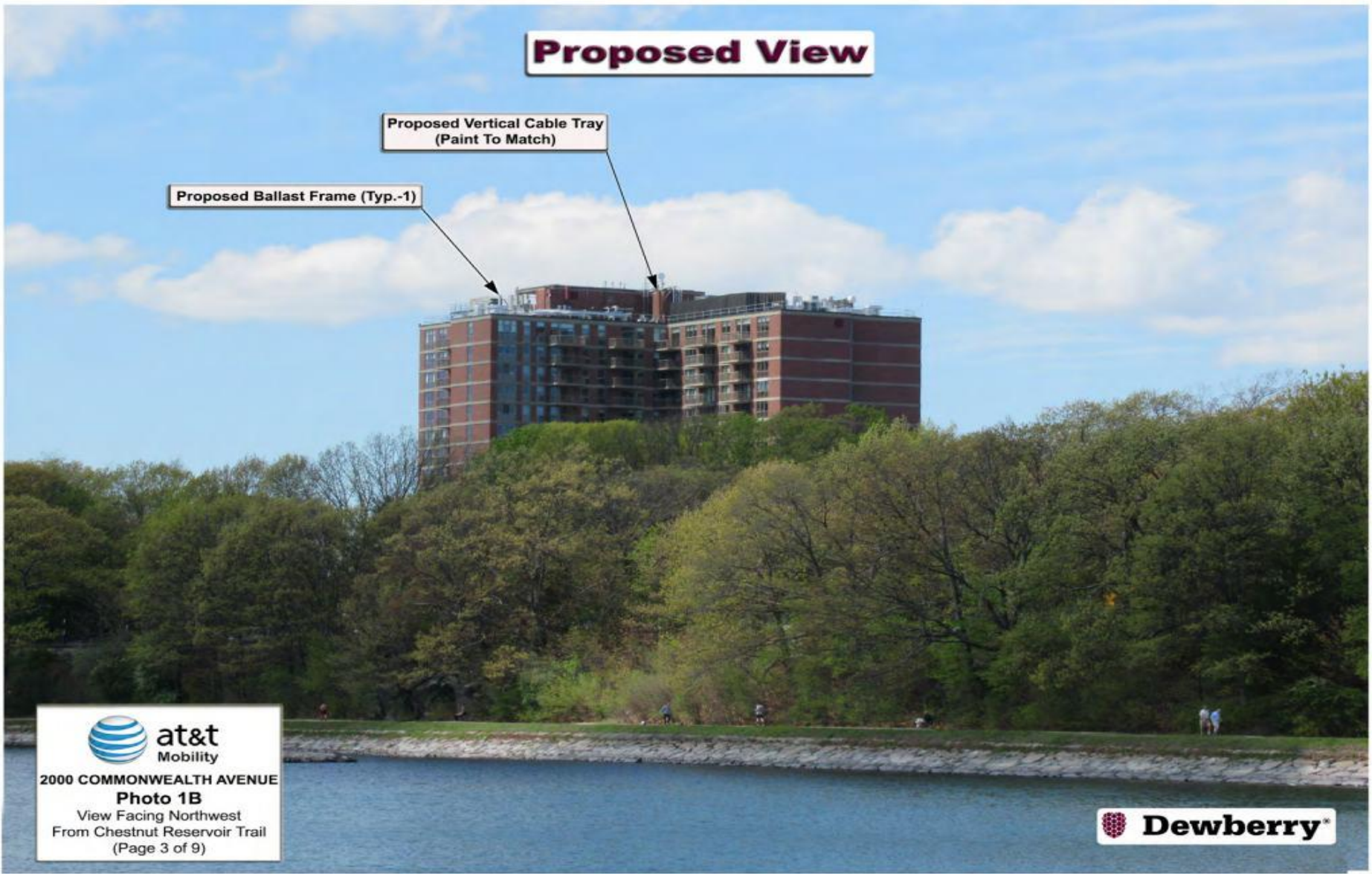
View Facing Northwest
From Chestnut Reservoir Trail
(Page 4 of 11)



Proposed View

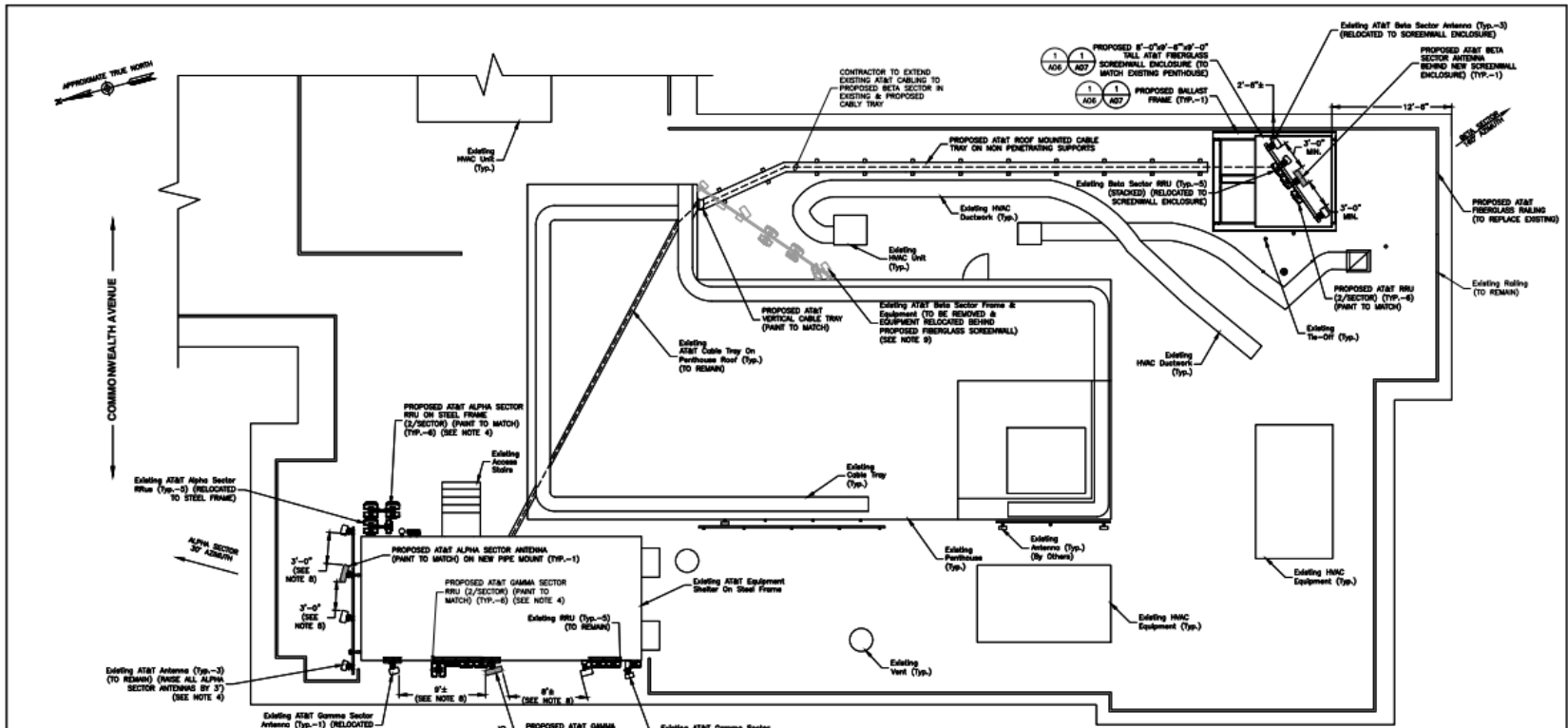
Proposed Vertical Cable Tray
(Paint To Match)

Proposed Ballast Frame (Typ.-1)




2000 COMMONWEALTH AVENUE
Photo 1B
View Facing Northwest
From Chestnut Reservoir Trail
(Page 3 of 9)





NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. SOME PROPOSED & EXISTING INFORMATION NOT SHOWN FOR CLARITY.
3. ROOF PLAN BASED ON FIELD RECONNAISSANCE BY DENBERY ENGINEERS ON 04/18/19 & EXISTING BUILDING PLAN.
4. REUSE EXISTING PIPE MOUNTS FOR PROPOSED ANTENNAS UNLESS NOTED OTHERWISE. INSPECT MOUNTS FOR DAMAGE OR DETEIORATION & REPLACE AS NECESSARY.
5. ALL JUMBERS TO BE NEATLY BUNDLED BEHIND THE ANTENNAS & RRUS.
6. INSTALL ALL PROPOSED EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS & IN ACCORDANCE WITH STRUCTURAL ANALYSIS BY DENBERY ENGINEERS INC. DATED 01/03/25.
7. ALL EXISTING AND PROPOSED RRUS & ANTENNAS FACEZ MOUNTED SHALL BE PAINTED TO MATCH THE EXISTING BUILDING BACKGROUND.
8. 3' MINIMUM SEPARATION REQUIRED BETWEEN LTE ANTENNAS & 6' SEPARATION REQUIRED BETWEEN 700 MC & 700 DC.
9. REMOVE ALL HARDWARE FOR REMOVED MOUNTS AND RESEAL/WEATHER PROOF ANCHORAGE PENETRATIONS.

PARTIAL ROOF PLAN

SCALE 1"=10' FOR 11'x17'
1"=6" FOR 22'x34'

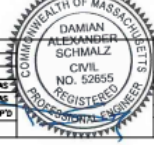


SCOPE OF WORK:

ROOFTOP RISE ALPHA SECTOR ANTENNAS BY 3'. REMOVE EXISTING BETA SECTOR FRAME & INSTALL A NEW BALLAST MOUNTED 8'-0"X8'-0"X8'-0" TALL HIGH FIBERGLASS PENTHOUSE. INSTALL (3) NEW 18M 4' 12"-HORE ANTENNAS. INSTALL (2) RRUS 33 INM, (3) NEW RRUS-B14 4A7A, AND (3) NEW SURGE PROTECTORS. REMOVE (1) EXISTING GAMMA SECTOR WALL MOUNT AND INSTALL (2) NEW ANTENNA WALL MOUNTS.

SHELTER: ADD (3) NEW DC12 IN EXISTING LIE RACK. SWAP BUS WITH 5216 AND ADD 2ND 5216 WITH (1) NEW 524 CABLE. ADD 2ND SMALL INSTALL NEW RACK FOR (3) RRUS-12 RED AND (6) SURGE.

POWER: INSTALL (4) 37A BREAKERS & (5) 25A BREAKERS IN THE EXISTING EMERGENCY POWER RACK.



AT&T MOBILITY
FRAMINGHAM, MA 01701

PARTIAL ROOF PLAN

| DENBERY NO. | DRAWING NUMBER | REV |
|-------------------|----------------|-----|
| 50093723/50083762 | A02 | 0 |

Denberry
Denberry Engineers Inc.
98 SUMNER STREET
SCITUATE, MA 01530
PHONE: 617.586.2400
FAX: 617.586.3316

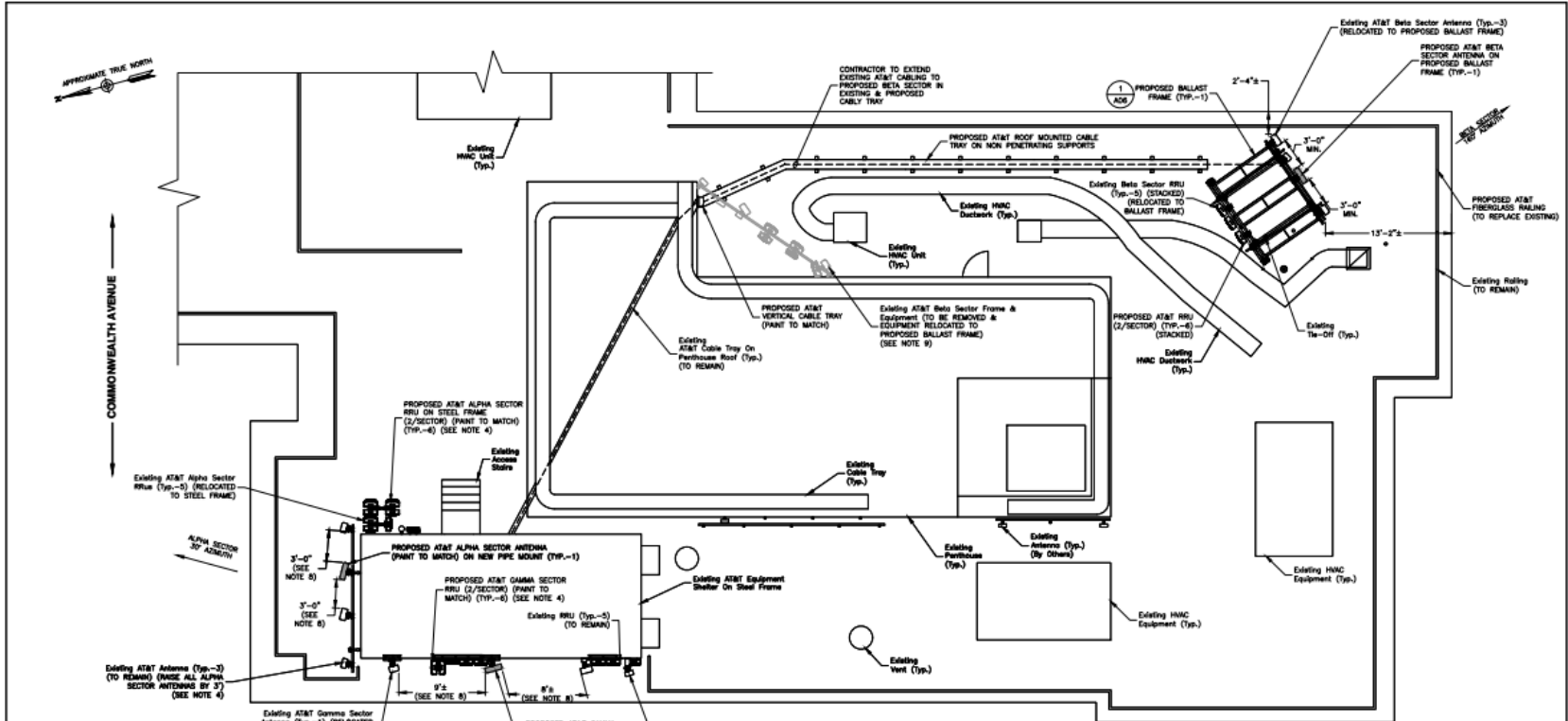
CENTERLINE
COMMUNICATIONS
750 W. MAIN STREET, SUITE 301
WEST BRIDGEWATER, MA 02767

at&t
Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

2000 COMMONWEALTH AVENUE
LTE 5C, 6C & 7C
SITE NO. MA2016
A.T.C. SITE NO. MA-0110
2000 COMMONWEALTH AVENUE
BRIGHTON, MA 02135

| NO. | DATE | REVISIONS | BY | CHKD | APP'D |
|-----|----------|----------------------|-----|------|-------|
| 0 | 04/01/20 | ISSUED FOR SUBMITTAL | SSA | CDH | SCA |
| 1 | 07/14/20 | ISSUED FOR REVIEW | SSA | CDH | SCA |

SCALE: AS SHOWN
DESIGNED BY: CDH
DRAWN BY: SCA



- NOTES:**
1. NORTH SHOWN AS APPROXIMATE.
 2. SOME PROPOSED & EXISTING INFORMATION NOT SHOWN FOR CLARITY.
 3. ROOF PLAN BASED ON FIELD RECONNOISSANCE BY DEWBERRY ENGINEERS ON 04/18/19 & EXISTING BUILDING PLANS.
 4. RISE EXISTING PIPE MOUNTS FOR PROPOSED ANTENNAS UNLESS NOTED OTHERWISE. INSPECT MOUNTS FOR DAMAGE OR DETRIORATION & REPLACE AS NECESSARY.
 5. ALL JUMPERS TO BE NEATLY BUNDLED BEHIND THE ANTENNAS & RRUS.
 6. FINAL DESIGN PENDING STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS INC.
 7. ALL EXISTING AND PROPOSED RRUS & ANTENNAS FACADE MOUNTED SHALL BE PAINTED TO MATCH THE EXISTING BUILDING BACKGROUND.
 8. 3" MINIMUM SEPARATION REQUIRED BETWEEN LTE ANTENNAS & 6" SEPARATION REQUIRED BETWEEN 700 MC & 700 DE.
 9. REMOVE ALL HARDWARE FOR REMOVED MOUNTS AND RESEAL/WEATHER PROOF ANCHORAGE PENETRATIONS.

PARTIAL ROOF PLAN
 SCALE: 1"=10' FOR 11'x11'
 1"=8' FOR 22'x34'

SCOPE OF WORK:
 ROOFTOP RAISE ALPHA SECTOR ANTENNAS BY 3'. REMOVE EXISTING BETA SECTOR FRAME & INSTALL A NEW BALLAST FRAME. INSTALL (3) NEW 8MM 6" 12-PORT ANTENNAS. INSTALL (2) RRUS 32 806, (2) NEW RRUS-814 4476, AND (2) NEW SURGE ARRESTORS. REMOVE (1) EXISTING GAMMA SECTOR WALL MOUNT AND INSTALL (2) NEW ANTENNA WALL MOUNTS.
 SHELTERS: ADD (2) NEW DC12 IN EXISTING LTE RACK. SWAP DUS WITH 5216 AND ADD 2ND 5216 WITH (1) NEW 8MM CABLE. ADD 2ND XMM. INSTALL NEW MACK FOR (2) RRUS-12 850 AND (6) SURGE.
 POWER: INSTALL (6) 20A BREAKERS & (5) 25A BREAKERS IN THE EXISTING EMERSON POWER CABINET.

2000 COMMONWEALTH AVENUE
 LTE SC, 6C & 7C
 SITE NO. MA2016
 A.T.C. SITE NO. MA-0110
 2000 COMMONWEALTH AVENUE
 BRIGHTON, MA 02135

| | | | | | |
|-----------------|----------|---------------------|--------------|-----|-------|
| NO. | DATE | ISSUED FOR SUBMITAL | MR | CDM | DVS |
| 0 | 04/06/20 | ISSUED FOR SUBMITAL | MR | CDM | DVS |
| 1 | | REVISIONS | BY | CHK | APP'D |
| SCALE: AS SHOWN | | DESIGNED BY: CDM | DRAWN BY: MR | | |



| | |
|---------------------------------------|----------------|
| AT&T MOBILITY FRAMINGHAM, MA 01701 | |
| PARTIAL ROOF PLAN | |
| DEWBERRY NO. | DRAWING NUMBER |
| 50123198/50123205 | A02 |
| REV | |
| 0 | |

