

TELECOM ADVISORY SERVICES

CBRE

70 West Red Oak Lane
White Plains, New York 10604
914.694.9600 Tel
914.694.1335 Fax

February 9, 2018

Burlington Historic Preservation Review Committee
c/o Ms. Mary O'Neil, Principal Planner
Planning & Zoning Department, City Hall
149 Church Street
Burlington, Vermont 05401
802.865.7556

RECEIVED
FEB 14 2018

**DEPARTMENT OF
PLANNING & ZONING**

Re: Section 106 Public Outreach
"4BV0340D"
92 North Avenue
Burlington, Vermont 05401
CBRE Project No.: TS80219015

Dear Ms. O'Neil:

CBRE is writing on behalf of T-Mobile Northeast, LLC to solicit your input concerning a proposed collocation of antennas on an existing 43-foot building along with the installation of ancillary equipment at the above referenced address. CBRE is requesting comments with regards to any potential impacts on historic architectural and/or archaeological resources.

As the Project is a federal undertaking regulated by the Federal Communications Commission (FCC), it is being reviewed under Section 106 of the National Historic Preservation Act for its impacts to historic architectural and archaeological resources. Federal regulations allow for public participation as part of the Section 106 process.

As such, CBRE would like to inquire if you would be interested in commenting on this proposed project. *Please note that we are requesting your review as part of the Section 106 process only and not as part of the local zoning process.* Furthermore, only responses related to historic properties potentially affected will be considered.

If you are interested in becoming a consulting party and have any comments or concerns regarding the proposed Project, please contact me in writing at CBRE, 70 West Red Oak Lane, White Plains, New York 10604 or at whiteplainsculturalresources@cbre.com. Please reference the project name and address in your comments. Any responses must be received within 30 days of receipt of this letter. Only consulting parties indicating their desire to receive information and/or otherwise participate in the Section 106 review process will be afforded this opportunity.

Thank you for your time and attention to this matter.

Sincerely,

Amanda M. Sabol

Amanda Sabol
Project Manager

..F..Mobile.
 T-MOBILE NORTHEAST, LLC
 15 COMMERCE WAY, SUITE B
 BURLINGTON, VT 05401
 OFFICE: (800) 588-2100

CHAPPELL ENGINEERING ASSOCIATES, LLC
 P.K. EXHIBITS CENTER
 201 BOSTON POST ROAD WEST
 BURLINGTON, VT 05410
 (800)481-7600
 www.chappell-engineering.com



APPROVALS
 STRUCTURE OWNER _____
 LEASING _____
 R.F. _____
 ZONING _____
 CONSTRUCTION _____
 A/E _____

PROJECT NO: 4BVO340D
 DRAWN BY: JRV
 CHECKED BY: JMT

DATE	REVISION
3/12/2016	REVISED FOR CONSTRUCTION
1/17/2016	REVISED FOR CONSTRUCTION
1/17/2016	REVISED FOR CONSTRUCTION
1/17/2016	REVISED FOR CONSTRUCTION
1/17/2016	CONSTRUCTION REVIEW

4BVO340D
MERMAID BUILDING
 92 NORTH AVENUE
 BURLINGTON, VT 05401

SHEET TITLE
 TITLE SHEET

SHEET NUMBER
 T-1

MERMAID BUILDING

92 NORTH AVENUE
 BURLINGTON, VT 05401

SITE NO.: 4BVO340D

SITE TYPE: MODERNIZATION UPGRADE - 6004G

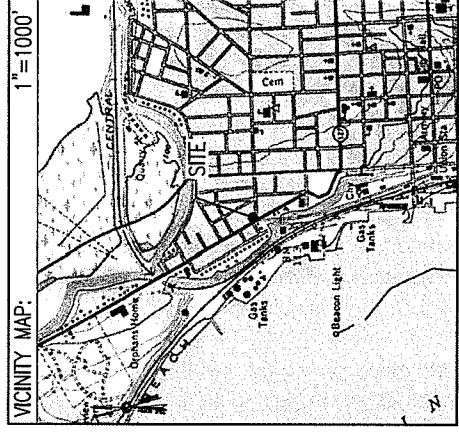
APPROVED
 By Matt Stanford at 10:08 am, Jan 24, 2016

APPROVED
 By Ryan Morrill at 10:00 am, Jan 24, 2016

PROJECT SUMMARY
 SITE NUMBER: 4BVO340D
 SITE NAME: MERMAID BUILDING
 SITE ADDRESS: 92 NORTH AVENUE, BURLINGTON, VT 05401
 ASSESSOR'S PARCEL NO.: 04-3-299-001 & 002
 ZONING DISTRICT: NEIGHBORHOOD MIXED USE
 CONSTRUCTION TYPE: MODERNIZATION UPGRADE WORK
 LAND OWNER: EDNA HANCOCK LLP, 100 BANK STREET SUITE 400, BURLINGTON, VT 05401
 APPLICANT: T-MOBILE NORTHEAST, LLC, 15 COMMERCE WAY, SUITE B, BURLINGTON, VT 05401
 ARCHITECT: CHAPPELL ENGINEERING ASSOCIATES, LLC, 201 BOSTON POST ROAD WEST, SUITE 101, BURLINGTON, VT 05410
 STRUCTURAL ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC, 201 BOSTON POST ROAD WEST, SUITE 301, BURLINGTON, VT 05410

SHEET NO.	DESCRIPTION	VER.
T-1	TITLE SHEET	5
GM-1	GENERAL NOTES	5
C-1	PROPERTY PLAN	5
A-1	ROOF PLAN	5
A-2	ELEVATIONS	5
A-3	MECHANICAL PLANS & DETAILS	5
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S-1	STRUCTURAL PLANS & DETAILS	5
S-2	STRUCTURAL CONNECTION DETAILS	5
S-3	STRUCTURAL DETAILS	5
E-1	ELECTRICAL & GROUNDING DETAILS	5

DO NOT SCALE DRAWINGS
 CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. OWNER SHALL BE RESPONSIBLE FOR SAME.



DIRECTIONS
 TURN LEFT ONTO S WASHINGTON ST. TURN RIGHT ONTO WA-123E. TURN LEFT ONTO I-495N TOWARD HANSEFIELD/WAVERSBORO. TAKE EXIT 55B FOR US-30 TOWARD WASHVA I-93. CONTINUE ONTO MARKET TURNPIKE. CONTINUE ONTO I-29N/DAKOTAT TURNPIKE. CONTINUE ONTO I-29N. TAKE EXIT ONTO I-89N. TAKE EXIT 14 FOR US-29W/WILSON RD TOWARD BURLINGTON. CONTINUE ONTO MAIN ST. TURN RIGHT ONTO BATTERY ST. CONTINUE SOUTH ONTO GREENMAN ST. TURN RIGHT ONTO NORTH AVE. SITE IS LOCATED ON THE RIGHT HAND SIDE.

GENERAL NOTES

- THE CONTRACTOR SHALL OBTAIN ALL NOTICES AND CONSENTS WITH ALL LOCAL, STATE, AND FEDERAL AGENCIES, INCLUDING BUT NOT LIMITED TO THE DEPARTMENT OF TRANSPORTATION AND LOCAL AND STATE AGENCIES, BEFORE ANY WORK IS BEGUN ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE PROJECT OWNER AND ALL APPLICABLE REGULATORY AND GOVERNING AGENCIES.
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Mobile

T-MOBILE NORTHEAST, LLC
15 COMMERCE WAY, SUITE 8
BOSTON, MA 02108
OFFICE: (617) 552-7200

CHAPPELL ENGINEERING ASSOCIATES, LLC
201 BOSTON POST ROAD WEST
WATERBURY, MA 01702
www.chappellengineering.com

STATE OF VERMONT
REGISTERED PROFESSIONAL ENGINEER
No. 10157
CLARENCE J. CHAPPELL

APPROVALS

STRUCTURE OWNER _____

LEASING _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 48V03400

DRAWN BY: JRV

CHECKED BY: JMT

VERSION

1. 10/26/07 REVISION FOR CONSTRUCTION

2. 10/26/07 REVISION FOR CONSTRUCTION

3. 10/26/07 REVISION FOR CONSTRUCTION

4. 10/26/07 REVISION FOR CONSTRUCTION

5. 10/26/07 REVISION FOR CONSTRUCTION

6. 10/26/07 REVISION FOR CONSTRUCTION

7. 10/26/07 REVISION FOR CONSTRUCTION

8. 10/26/07 REVISION FOR CONSTRUCTION

9. 10/26/07 REVISION FOR CONSTRUCTION

10. 10/26/07 REVISION FOR CONSTRUCTION

11. 10/26/07 REVISION FOR CONSTRUCTION

12. 10/26/07 REVISION FOR CONSTRUCTION

13. 10/26/07 REVISION FOR CONSTRUCTION

14. 10/26/07 REVISION FOR CONSTRUCTION

15. 10/26/07 REVISION FOR CONSTRUCTION

16. 10/26/07 REVISION FOR CONSTRUCTION

17. 10/26/07 REVISION FOR CONSTRUCTION

18. 10/26/07 REVISION FOR CONSTRUCTION

19. 10/26/07 REVISION FOR CONSTRUCTION

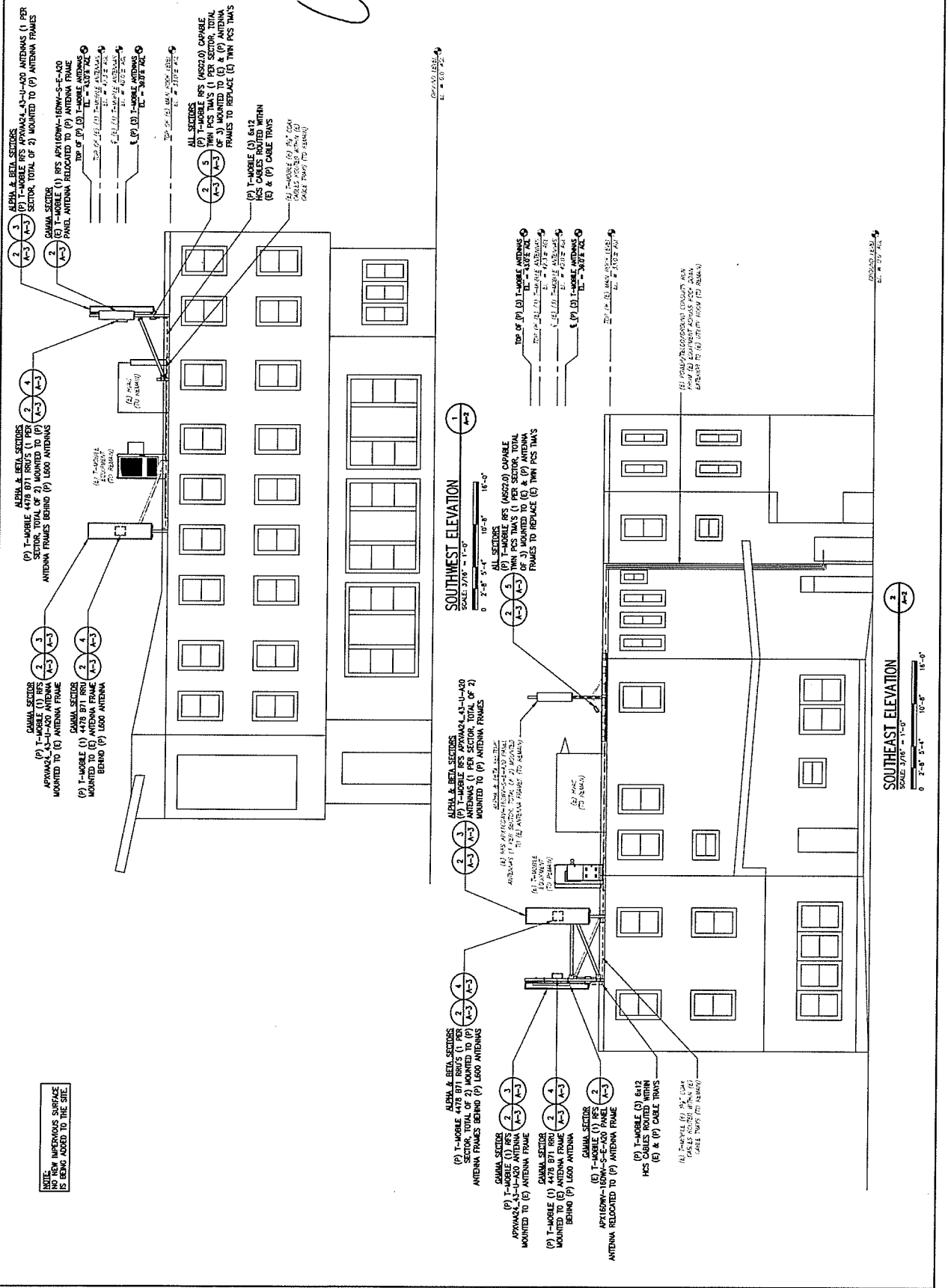
20. 10/26/07 REVISION FOR CONSTRUCTION

48V03400
MERMAID BUILDING
62 NORTH AVENUE
BURLINGTON, VT 05401

SHEET NO. _____

ELEVATION _____

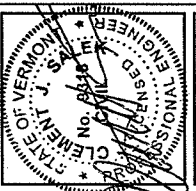
SHEET NUMBER
A-2



..F..Mobile

T-Mobile Northeast, LLC
15 WILMINGTON, MA 01978
OFFICE: (508) 786-2700

CHAPPELL
ENGINEERING
ASSOCIATES, LLC
161 BOSTON ROAD WEST
SUITE 10
MILLSBOROUGH, MA 01752
www.chappell-engineering.com



APPROVALS

STRUCTURE OWNER _____
LEASING RE: _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 48V03400

DRAWN BY: JRY

RECORD BY: JMT

REVISION
1 11/17/17 REVISION FOR CONSTRUCTION
2 11/17/17 REVISION FOR CONSTRUCTION
3 11/17/17 REVISION FOR CONSTRUCTION
4 11/27/17 REVISION FOR CONSTRUCTION
5 11/27/17 REVISION FOR CONSTRUCTION

THE DRAWING IS THE CREATOR'S WORK
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THE ENGINEER. IT IS TO BE USED FOR
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OF THE ENGINEER. ANY REPRODUCTION
OR TRANSMISSION FOR THE PURPOSES
OF CONSULTING THEIR LAWYER AUTHORIZED
FOR THAT PURPOSE IS EXPRESSLY
PROHIBITED UNLESS SPECIFICALLY
PERMITTED OTHERWISE.

48V03400
MERMAID BUILDING
92 NORTH AVENUE
BERLINGTON, VT 05401

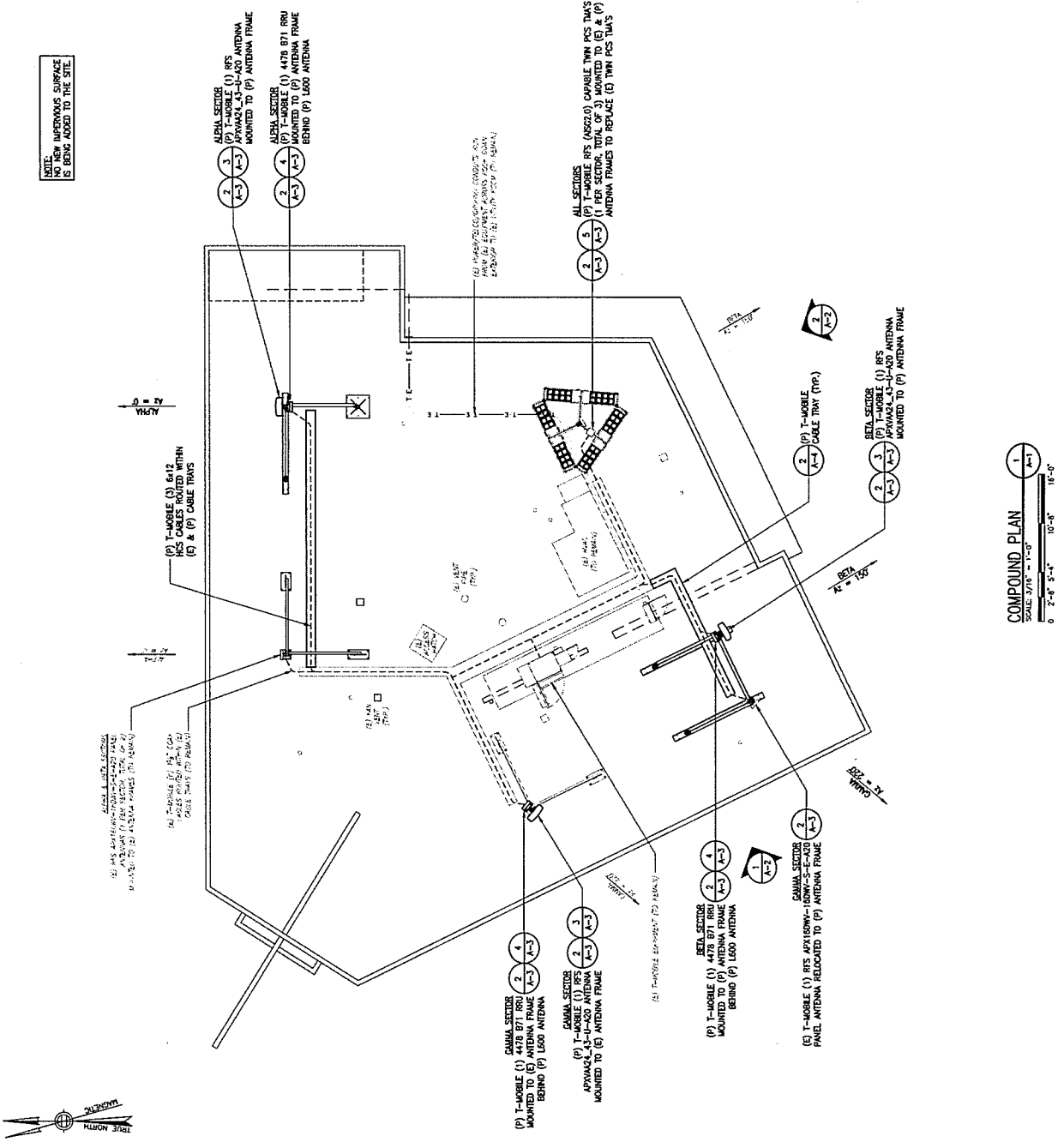
SHEET TITLE
ROOF PLAN

SHEET NUMBER
A-1

EQUIPMENT SCHEDULE

- CURRENT EQUIPMENT**
- THREE (3) RFS AP7X180W-A-60W-S-E-A30 PANEL ANTENNAS
 - THREE (3) GENERIC STYLE 1A TWIN PDS TRAYS
 - SIX (6) COAX CABLES AND ASSOCIATED F COAX CABLE
 - ONE (1) RRS 8011 ONE EQUIPMENT CABINET
 - ONE (1) PURCELL RM242A CABINET
 - ONE (1) NETWORK PDC
- EQUIPMENT TO BE REMOVED**
- THREE (3) GENERIC STYLE 1A TWIN PDS TRAYS
- EQUIPMENT TO BE ADDED**
- THREE (3) RFS AP7X180W-A-60W-S-E-A30 PANEL ANTENNAS
 - THREE (3) NETWORK PDS TRAYS
 - THREE (3) ERICSSON 4778 B71 TRAYS
 - THREE (3) ERICSSON 4778 B71 TRAYS
 - SIX (6) 1/2" COAX CABLES
- FINAL EQUIPMENT CONFIGURATION**
- THREE (3) RFS AP7X180W-A-60W-S-E-A30 PANEL ANTENNAS
 - THREE (3) RFS AP7X180W-A-60W-S-E-A30 PANEL ANTENNAS
 - THREE (3) NETWORK PDS TRAYS
 - THREE (3) ERICSSON 4778 B71 TRAYS
 - SIX (6) 1/2" COAX CABLES
 - ONE (1) RRS 8011 ONE EQUIPMENT CABINET
 - ONE (1) PURCELL RM242A CABINET
 - ONE (1) NETWORK PDC
- (E) EQUIPMENT SPACE REQUIREMENTS WILL NOT CHANGE
RE CONFIGURATION
6040

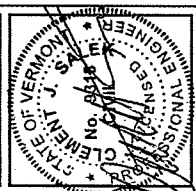
NOTE:
ALL SURFACE IMPROVEMENTS
IS BEING ADDED TO THE SITE.



COMPOUND PLAN
SCALE: 3/16" = 1'-0"
0 2'-0" 5'-4" 10'-8" 18'-0"

F-Mobile
 T-MOBILE WIRELESS, LLC
 15 COMMERCE WAY, SUITE B
 BURLINGTON, VT 05401
 OFFICE: (802) 286-2700

CHAPPELL ENGINEERING ASSOCIATES, LLC
 201 EASTON POST ROAD WEST
 BURLINGTON, VT 05401
 (802) 286-7100
 www.chappellengineering.com



APPROVALS
 STRUCTURE OWNER: _____
 LEASING: _____
 R.F.: _____
 ZONING: _____
 CONSTRUCTION: _____
 AVE.: _____
 PROJECT NO: 4BVO3400
 DRAWN BY: JRV
 CHECKED BY: JMT
VERSION
 1 10/25/10 REVISION FOR CONSTRUCTION
 2 11/17/10 REVISION FOR CONSTRUCTION
 3 11/24/10 REVISION FOR CONSTRUCTION
 4 12/01/10 REVISION FOR CONSTRUCTION
 5 11/29/11 CONSTRUCTION REVIEW
 6 09/05/12 CONSTRUCTION REVIEW

THE UNDERSIGNED ENGINEER HAS REVIEWED THE PLANS AND SPECIFICATIONS OF THE PROJECT AND CERTIFIES THAT THE PROJECT AS SHOWN ON THESE PLANS CONFORMS TO ALL CITY ORDINANCES AND REGULATORY AND ADMINISTRATIVE FUNCTIONS TO BE OBSERVED AND ENFORCED.
 T-MOBILE WIRELESS, LLC AND ASSOCIATES, LLC
 15 COMMERCE WAY, SUITE B
 BURLINGTON, VT 05401
 OFFICE: (802) 286-2700
 www.f-mobile.com

4BVO3400
MERMAID BUILDING
 65 WATER AVENUE
 BURLINGTON, VT 05401

SHEET TITLE
 PROPERTY PLAN

SHEET NUMBER
 C-1

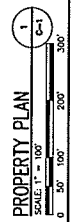
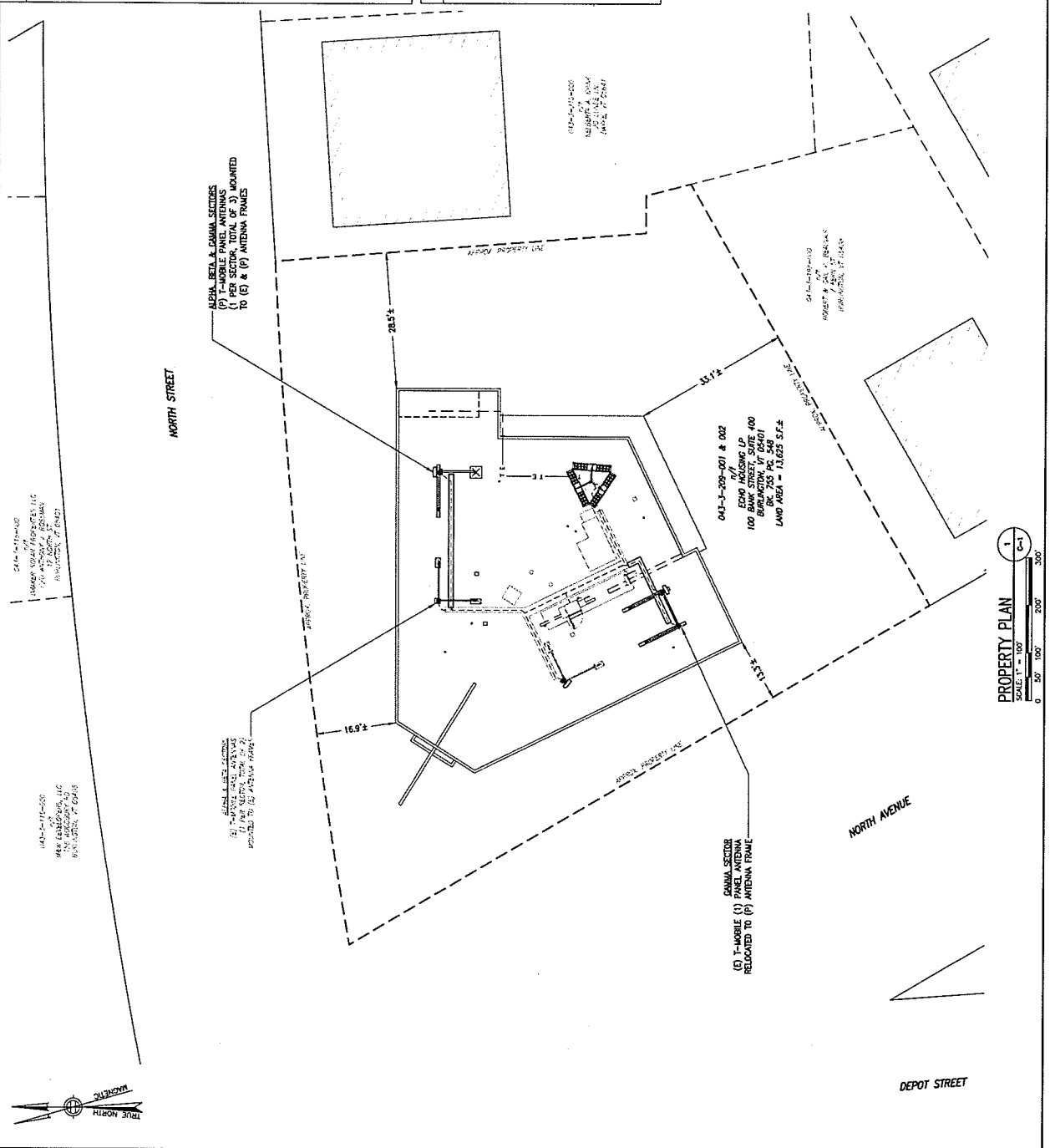
GENERAL NOTES:
 1. UNITS: FEET AND INCHES
 2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD83)
 3. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
 4. SITE CONTROL POINT: LATITUDE: N 44-59-03.5" LONGITUDE: W 73-13-19.1"
 5. PROPERTY OWNER: EDG HOUSING LP, SUITE 400, BURLINGTON, VT 05401
 6. SITE NUMBER: 4BVO3400
 7. SITE ADDRESS: 15 COMMERCE WAY, SUITE B, BURLINGTON, VT 05401
 8. APPLICANT: T-MOBILE WIRELESS, LLC, 15 COMMERCE WAY, SUITE B, BURLINGTON, VT 05401
 9. JURISDICTION: CITY OF BURLINGTON
 10. PLAN NO.: 000
 11. PLAN REFERENCES: CITY OF BURLINGTON ASSESSORS MAPS AND PLAN REFERENCES AS INDICATED.
 12. ZONING JURISDICTION: NEIGHBORHOOD MIXED USE
 13. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED BY FIELD SURVEY AND/OR BY REVIEW OF CITY RECORDS. THE LOCATION OF ANY SITE SHOULD BE LOCATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY SITE WORK. A LIMITED FIELD SURVEY AND/OR REVIEW OF CITY RECORDS SHOULD BE CONDUCTED TO VERIFY THE LOCATION OF ANY SITE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK.
 14. PROPERTY LINE INFORMATION IS COMPILED FROM TOWNSHIP ASSESSORS PLANS, A LIMITED FIELD SURVEY, AND PLANS OF REFERENCE. A FULL BOUNDARY SURVEY HAS NOT BEEN PERFORMED.
 15. ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS ARE TO THE CENTER OF THE PROPERTY LINE UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO THE CENTER OF THE PROPERTY LINE UNLESS OTHERWISE NOTED.
 16. NO UTILITIES WERE OBSERVED WITHIN 100' OF THE USE AREA OR ANY AREA OF CONSTRUCTION.

LEGEND
 --- PROPERTY LINE
 --- ADJACENT PROPERTY LINE
 --- EXIST. RIGHT OF WAY
 --- PROP. EASEMENT/USE AREA
 --- EXIST. CHAIN LINK FENCE
 --- PROP. CHAIN LINK FENCE
 --- EXIST. TREE LINE
 --- EXIST. STREET LAYOUT
 --- EXIST. EASEMENT
 --- PROP. OVERHEAD UTILITIES
 --- EXIST. OVERHEAD UTILITIES
 --- PROP. UNDERGROUND UTILITIES
 --- EXIST. UNDERGROUND UTILITIES
 --- ZONING BOUNDARY

ZONING INFORMATION

DESCRIPTION	REQUIRED	EXISTING
ZONING DISTRICT: NEIGHBORHOOD MIXED USE		
PROPERTY SETBACKS	0'	13.5'
SETBACK	0'	18.5'
REAR	0'	25.5'

NOTE:
 1. PLAN BASED ON CITY OF BURLINGTON ASSESSORS MAPS.
 2. SETBACKS ARE BASED FROM THE GREATEST POINT OF THE EXISTING BUILDING TO PROPERTY LINES.



T-Mobile
 T-MOBILE NORTHEAST LLC
 15 COMMERCE WAY, SUITE B
 HORTON, MA 02756
 OFFICE: (508) 286-2700

CHAPPELL ENGINEERING ASSOCIATES, LLC
 A Professional Engineering Firm
 R.K. SECORSE, P.E.
 201 BOSTON POST ROAD WEST
 SUITE 101
 WARE, MA 01956
 (508) 481-7400
 www.chappellengineering.com



APPROVALS

STRUCTURE OWNER: _____
 LEASING: _____
 R.F.: _____
 ZONING: _____
 CONSTRUCTION: _____
 A/E: _____

PROJECT NO.: 48V03400
 DRAWN BY: JFY
 CHECKED BY: JMT

VERSION

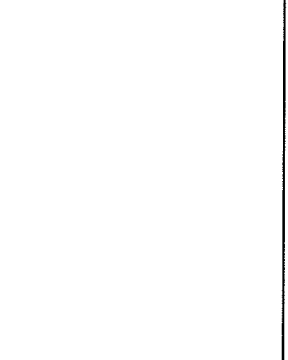
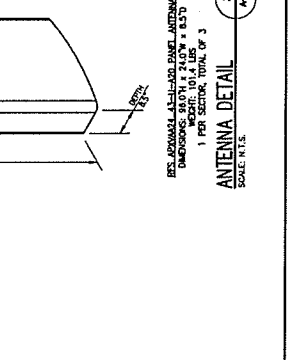
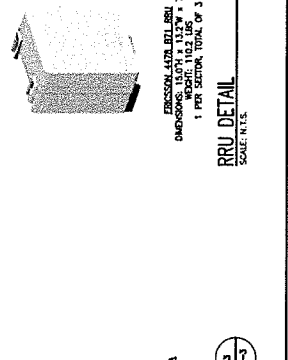
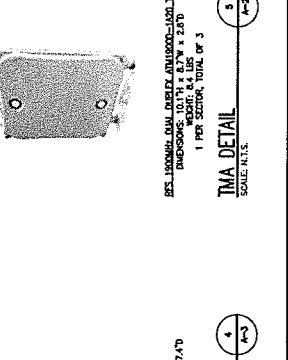
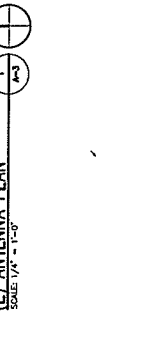
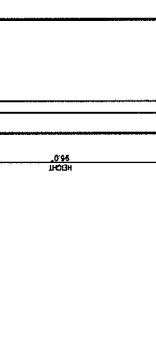
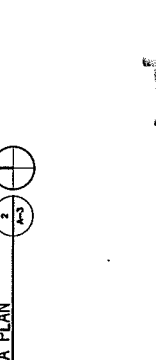
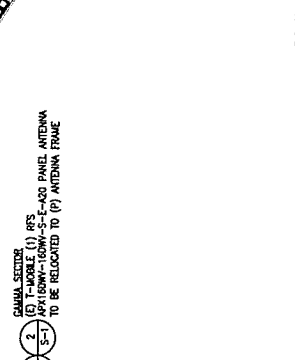
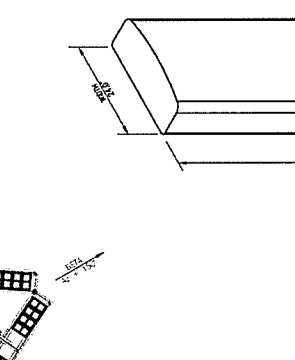
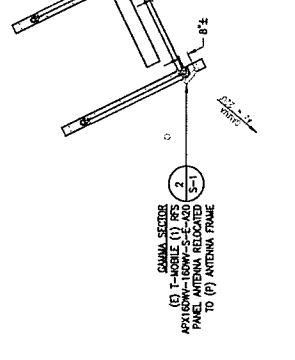
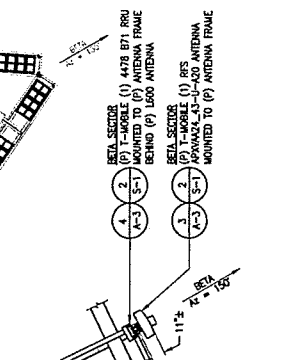
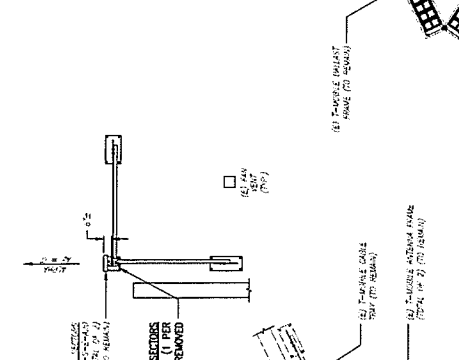
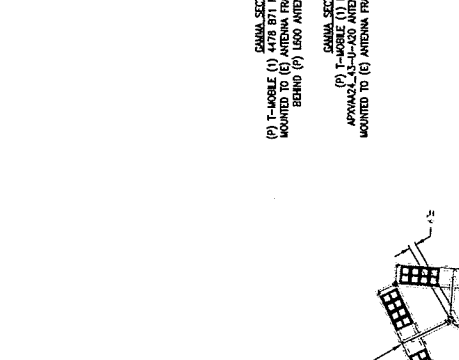
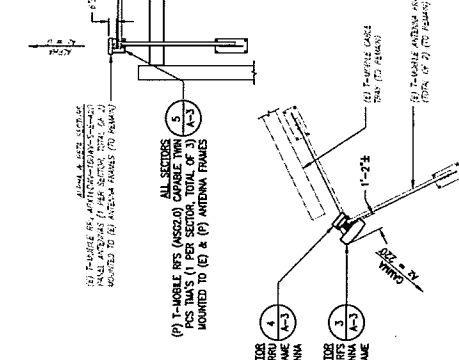
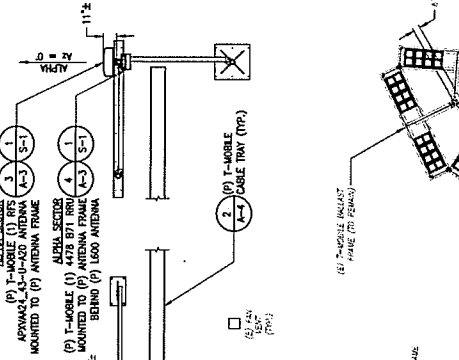
3. 10/17/17 REVISED FOR CONSTRUCTION
 4. 10/27/17 REVISED FOR CONSTRUCTION
 1. 10/27/17 REVISED FOR CONSTRUCTION
 2. 10/27/17 REVISED FOR CONSTRUCTION
 0. 10/27/17 CONSTRUCTION REVIEW

THIS DOCUMENT IS THE CREATOR'S DESIGN.
 T-MOBILE NORTHEAST LLC HAS REVIEWED AND APPROVED THIS DOCUMENT FOR THE PURPOSES OF OBTAINING PERMITS AND FOR THE PURPOSES OF REGULATORY AND ADMINISTRATIVE FUNCTIONS.
 NO WARRANTIES ARE MADE BY THE CREATOR.

48V03400
 MERMAID BUILDING
 52 NORTH AVENUE
 BOSTON, MA 02111

ANTENNA FRAME & DETAILS

SHEET NUMBER
A-3



Mobile-
 F-MOBILE WORKS, LLC
 15 COMMERCIAL WAY, SUITE B
 HORTON, MA 02766
 OFFICE: (508) 286-2700

CHAPPELL ENGINEERING ASSOCIATES, LLC
 201 BRISTOL POST ROAD WEST
 SUITE 101
 WARE, MA 01952
 (508) 411-7400
 www.chappellengineering.com



APPROVALS
 STRUCTURE OWNER _____
 LEASING _____
 RE: _____
 ZONING _____
 CONSTRUCTION _____
 A/E _____

PROJECT NO: 48V03400
 DRAWN BY: JVT
 CHECKED BY: JVT

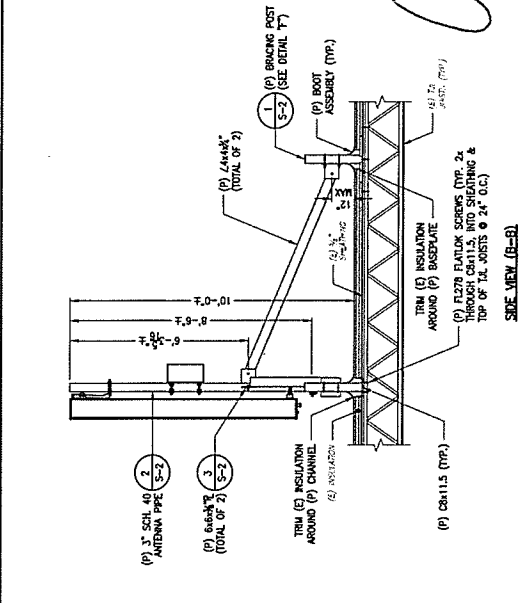
VERSION
 1. 10/17/14 REVISED FOR CONSTRUCTION
 2. 10/27/17 REVISED FOR CONSTRUCTION
 3. 10/27/17 REVISED FOR CONSTRUCTION
 4. 10/27/17 REVISED FOR CONSTRUCTION
 5. 10/27/17 CONSTRUCTION REVIEW

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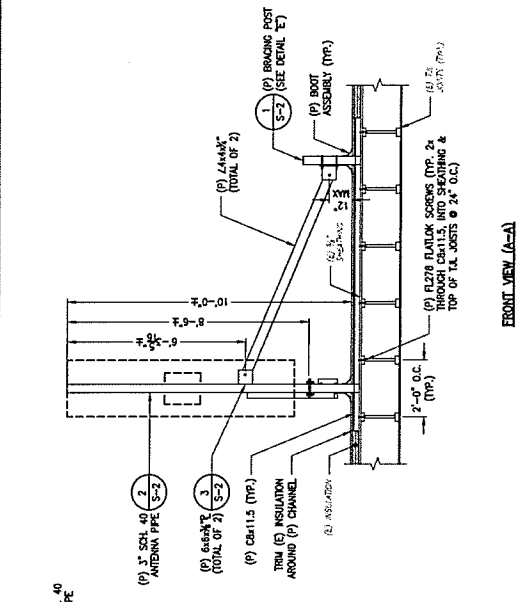
48V03400
 MERMAID BUILDING
 92 NORTH AVENUE
 BRISTOL, VT 05401

SCALE: 1/2" = 1'-0"
 STRUCTURAL
 PLANS & ELEVATIONS

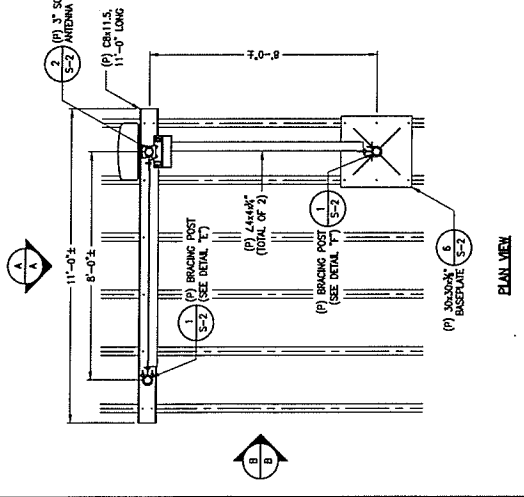
SHEET NUMBER
 S-1



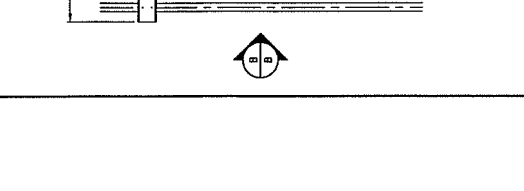
FRONT VIEW (A-A)
 ALPHA SECTOR
 ANTENNA FRAME DETAIL
 SCALE: 1/2" = 1'-0"



SIDE VIEW (B-B)
 ALPHA SECTOR
 ANTENNA FRAME DETAIL
 SCALE: 1/2" = 1'-0"



FRONT VIEW (C-C)
 BETA & GAMMA SECTORS
 ANTENNA FRAME DETAIL
 SCALE: 1/2" = 1'-0"



SIDE VIEW (D-D)
 BETA & GAMMA SECTORS
 ANTENNA FRAME DETAIL
 SCALE: 1/2" = 1'-0"

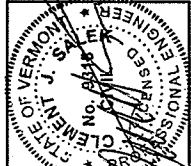
PLAN VIEW
 ALPHA SECTOR
 ANTENNA FRAME DETAIL
 SCALE: 1/2" = 1'-0"

PLAN VIEW
 BETA & GAMMA SECTORS
 ANTENNA FRAME DETAIL
 SCALE: 1/2" = 1'-0"

..T-Mobile..

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CHAPPELL ENGINEERING ASSOCIATES, LLC
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SUITE 101
MANSFIELD, MA 01926
(508) 811-7400
www.chappellengineering.com



APPROVALS
STRUCTURE OWNER _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A.V.E. _____

PROJECT NO. 48V0340D
DRAWN BY: JAV
CHECKED BY: JMT

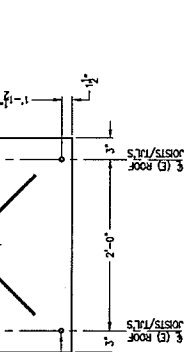
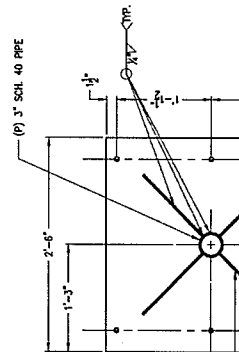
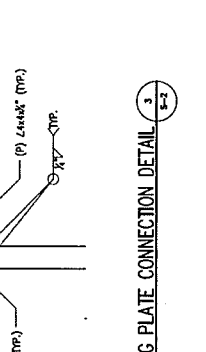
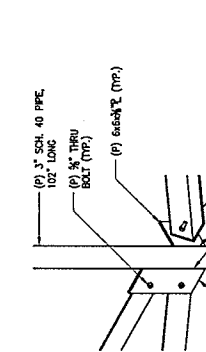
VERSION	
3	10/25/15 REVISED FOR CONSTRUCTION
4	12/27/17 REVISED FOR CONSTRUCTION
5	12/27/17 REVISED FOR CONSTRUCTION
6	11/27/17 REVISED FOR CONSTRUCTION
8	10/25/17 CONSTRUCTION REVIEW

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48V0340D
MERMAID BUILDING
67 NORTH AVENUE
BOSTON, MA 02108

SCALE: N.T.S.
STRUCTURAL CONNECTION DETAILS

SHEET NUMBER
S-2



BRACING BRACKET CONNECTION DETAIL 1
SCALE: N.T.S.

ANTENNA PIPE CONNECTION DETAIL 2
SCALE: N.T.S.

BRACING PLATE CONNECTION DETAIL 3
SCALE: N.T.S.

ANTENNA PIPE MOUNTING PLATE DETAIL 4
SCALE: N.T.S.

BRACING BRACKET CONNECTION DETAIL 5
SCALE: N.T.S.

(1) BRACING BRACKET (TYP. OF 2)
(2) 3" SCH. 40 PIPE, 24" LONG
(3) 1/4" U-BOLT FOR 3" SCH. 40 PIPE (TYP. OF 2)
(4) 4x4x1/4" (TYP.)
(5) 3/4" THRU BOLT (TYP.)
(6) BR111.5 (TYP.)

(1) 3" SCH. 40 PIPE, 102" LONG
(2) 3/4" THRU BOLT (TYP. OF 4)
(3) 3" SCH. 40 PIPE, 204" LONG
(4) BR111.5 (TYP.)

(1) 1 1/2" X 12" LONG FLAT STOCK STIFFENER (TYP. OF 4)
(2) 30x30x1/4" BASEPLATE (TYP. OF 4)
(3) HOLES FOR FLATBAR (TYP. OF 6)
(4) FLATBAR CORNERS (TYP. OF 6)

(1) 3" SCH. 40 PIPE
(2) 3" SCH. 40 PIPE
(3) 3/4" THRU BOLT (TYP. OF 4)
(4) BRACING PLATE

(1) 3" SCH. 40 PIPE
(2) 3" SCH. 40 PIPE
(3) 1/4" THRU BOLT (TYP. OF 2)
(4) BRACING BRACKET (TYP. OF 2)

NOTE: IS SLOPED AT ~1% TO SIMPLIFIED ANTENNA PIPES. SHIM PLATES, AS REQUIRED.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

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APPROVALS

STRUCTURE OWNER _____
LEASING _____
B.C. _____
ZONING _____
CONSTRUCTION _____
N/E _____

PROJECT NO. REVISED
DRAWN BY: JUN
CHECKED BY: JUN

VERSION

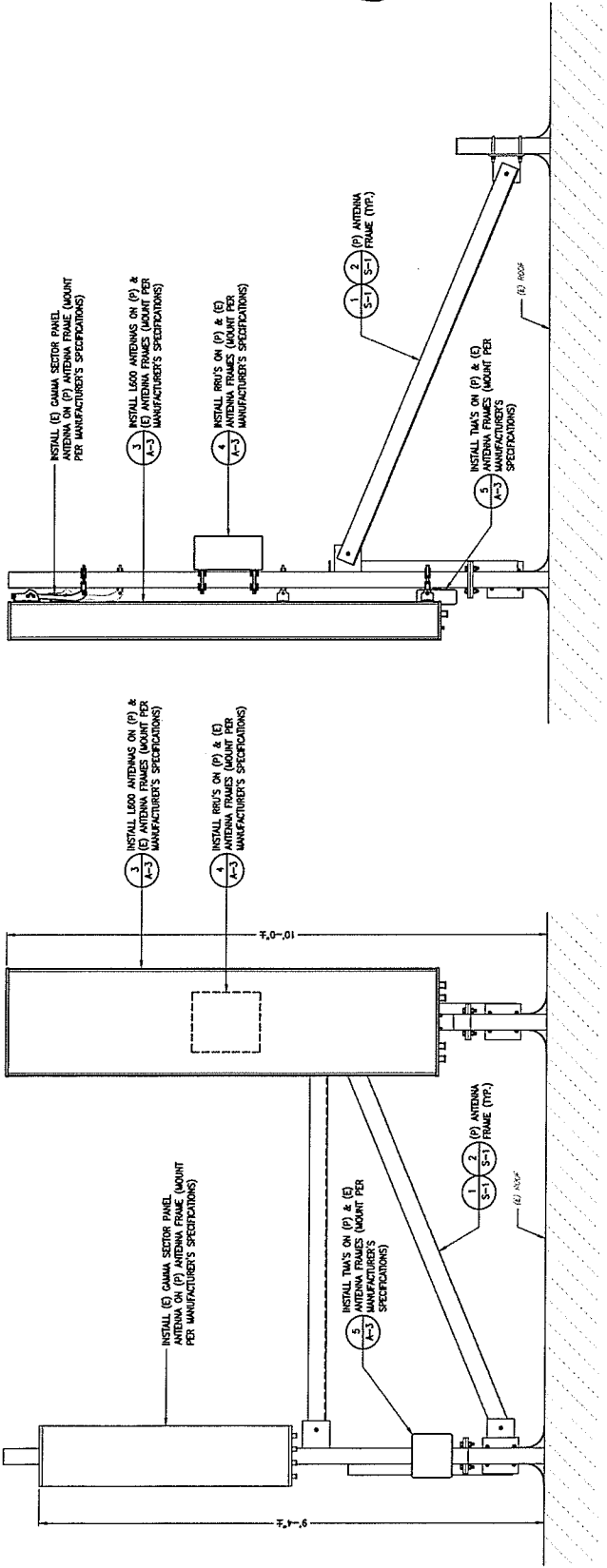
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4	10/20/17	REVISED FOR CONSTRUCTION
2	10/20/17	REVISED FOR CONSTRUCTION
2	10/20/17	REVISED FOR CONSTRUCTION
1	10/20/17	CONSTRUCTION REVIEW

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4BVO3400
MERMAID BUILDING
92 NORTH AVENUE
BRISTOL, VT 05441

SHEET NO.
STRUCTURAL
DETAILS

SHEET NUMBER
S-3



ANTENNA MOUNTING DETAIL
SCALE: 1/2" = 1'-0"

EXISTING ANTENNA SCHEDULE		PROPOSED ANTENNA SCHEDULE		PROJECT INFORMATION AND DIMENSIONS		
SECTOR	MODEL	SIZE (INCHES)	SECTOR	MODEL	SIZE (INCHES)	DIMENSION
ALPHA	RFS	AP1100W-10M-S-1-E-400	AP1100W-10M-S-1-E-400	AP1100W-10M-S-1-E-400	56.5" x 110.0" x 15.1"	SURFACE AREA OF THE FACES OF THE SUPPORT STRUCTURE
BETA	RFS	AP1100W-10M-S-1-E-400	AP1100W-10M-S-1-E-400	AP1100W-10M-S-1-E-400	56.5" x 110.0" x 15.1"	INTERNAL SURFACE AREA
GAMMA	RFS	AP1100W-10M-S-1-E-400	AP1100W-10M-S-1-E-400	AP1100W-10M-S-1-E-400	56.5" x 110.0" x 15.1"	EXTERNAL SURFACE AREA
					56.5" x 110.0" x 15.1"	INTERNAL SURFACE AREA
					56.5" x 110.0" x 15.1"	EXTERNAL SURFACE AREA

REQUIRED	PROPOSED APPROX.	CHANGE
< 75 SQ.FT.	ANTENNA (3) 56.5" x 110.0" = 18.4 SQ.FT. TAW (3) 10.1" x 4.1" = 12.4 SQ.FT. BRIS (3) 11.2" x 6.0" = 19.9 SQ.FT. TOTAL SURFACE AREA = 49.8 SQ.FT.	64.9 SQ.FT. CHANGE TO EACH SURFACE AREA = 47.9 SQ.FT.

REQUIRED	PROPOSED APPROX.	CHANGE
< 10'-0"	ANTENNA (3) 56.5" x 110.0" = 18.4 SQ.FT. TAW (3) 10.1" x 4.1" = 12.4 SQ.FT. BRIS (3) 11.2" x 6.0" = 19.9 SQ.FT. TOTAL SURFACE AREA = 49.8 SQ.FT.	10'-0"

REQUIRED	PROPOSED APPROX.	CHANGE
< 300 SQ.FT.	ANTENNA (3) 56.5" x 110.0" = 18.4 SQ.FT. TAW (3) 10.1" x 4.1" = 12.4 SQ.FT. BRIS (3) 11.2" x 6.0" = 19.9 SQ.FT. TOTAL SURFACE AREA = 49.8 SQ.FT.	0 SQ.FT.

REQUIRED	PROPOSED APPROX.	CHANGE
11'-0"	ANTENNA (3) 56.5" x 110.0" = 18.4 SQ.FT. TAW (3) 10.1" x 4.1" = 12.4 SQ.FT. BRIS (3) 11.2" x 6.0" = 19.9 SQ.FT. TOTAL SURFACE AREA = 49.8 SQ.FT.	0'-0"

REQUIRED	PROPOSED APPROX.	CHANGE
0 SQ.FT.	ANTENNA (3) 56.5" x 110.0" = 18.4 SQ.FT. TAW (3) 10.1" x 4.1" = 12.4 SQ.FT. BRIS (3) 11.2" x 6.0" = 19.9 SQ.FT. TOTAL SURFACE AREA = 49.8 SQ.FT.	0 SQ.FT.

REQUIRED	PROPOSED APPROX.	CHANGE
0 SQ.FT.	ANTENNA (3) 56.5" x 110.0" = 18.4 SQ.FT. TAW (3) 10.1" x 4.1" = 12.4 SQ.FT. BRIS (3) 11.2" x 6.0" = 19.9 SQ.FT. TOTAL SURFACE AREA = 49.8 SQ.FT.	0 SQ.FT.

REQUIRED	PROPOSED APPROX.	CHANGE
0 SQ.FT.	ANTENNA (3) 56.5" x 110.0" = 18.4 SQ.FT. TAW (3) 10.1" x 4.1" = 12.4 SQ.FT. BRIS (3) 11.2" x 6.0" = 19.9 SQ.FT. TOTAL SURFACE AREA = 49.8 SQ.FT.	0 SQ.FT.



STRUCTURE OWNER:	APPROVALS:
LEASING:	
RF:	
ZONING:	
CONSTRUCTION:	
A/E:	
PROJECT NO.:	48V03440
DRAWN BY:	JRY
CHECKED BY:	JMT

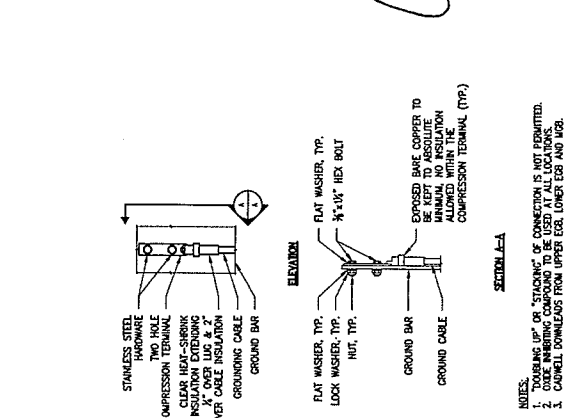
VERSION	
3/10/2016	REVISED FOR CONSTRUCTION
1/19/2017	REVISED FOR CONSTRUCTION
1/19/2017	REVISED FOR CONSTRUCTION
1/19/2017	CONSTRUCTION
8/19/2017	CONSTRUCTION REVIEW

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48V03440
MERMAID BUILDING
 62 NORTH AVENUE
 BOSTON, MA 02110

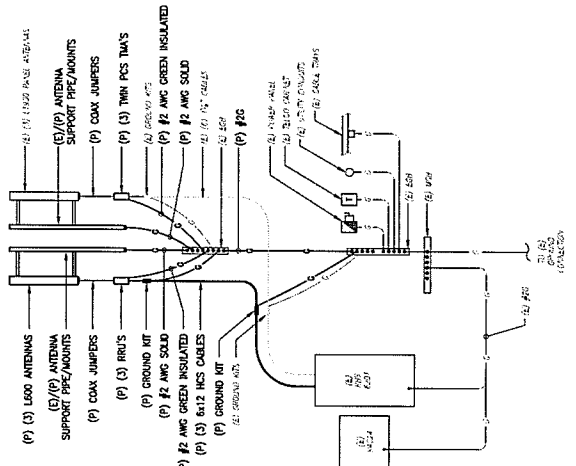
ELECTRIC & GROUNDING DETAILS

E-1



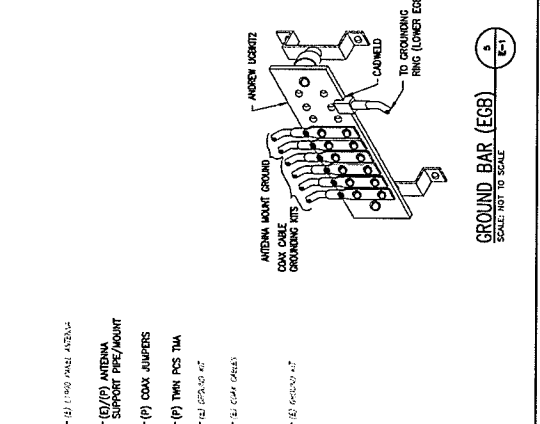
TYPICAL GROUND BAR CONNECTIONS DETAIL
 SCALE: NOT TO SCALE

- NOTES:**
1. "DRESSING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED. CODE MARKING CONFORMING TO BE USED AT ALL LOCATIONS.
 2. CABLES SHALL BE RATED FOR USE IN WET LOCATIONS.

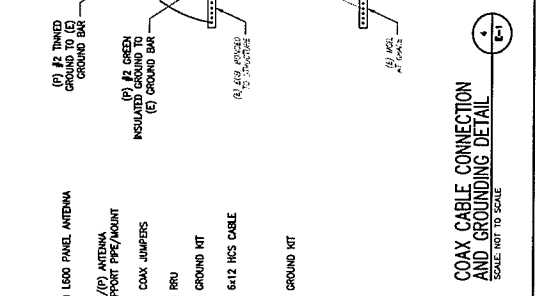


GROUNDING RISER DIAGRAM
 SCALE: NOT TO SCALE

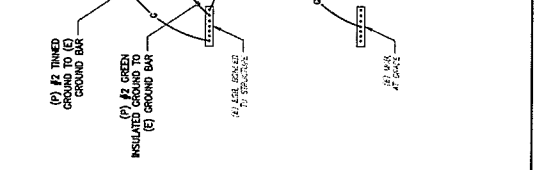
- ELECTRICAL AND GROUNDING NOTES**
1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
 2. ELECTRICAL WORK SHALL BE ALL PERFORMED BY LICENSED AND TRAINED PERSONNEL.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
 4. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
 5. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
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 16. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
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 19. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
 20. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
 21. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
 22. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.



COAX CABLE CONNECTION AND GROUNDING DETAIL
 SCALE: NOT TO SCALE



ONE LINE DIAGRAM
 SCALE: NOT TO SCALE



ANTENNA MOUNT GROUNDING DETAIL
 SCALE: NOT TO SCALE