SITE EVALUATION REPORT
North Branford CT021

I. LOCATION

A. COORDINATES: 41°-23'-44.9168" N
72°-47'-35.0815" W

B. GROUND ELEVATION: 277.7'± AMSL

C. USGS MAP: USGS 7.5 quadrangle for Wallingford

D. SITE ADDRESS: 222 Clintonville Road
Northford, CT 06472

E. ZONING WITHIN ¼ MILE OF SITE: Abutting areas to the north are zoned Zone R-40 – Residential 40 Zone. Areas to the south are zoned Zone R-80 – Residential 80 Zone. Areas to the west are zoned Zone R-80 –Residential 80 Zone and Zone R-40 – Residential 40 Zone. Areas to the east are zoned Zone B-3 – Local Business Zone, Zone R-40 – Residential 40 Zone and Zone B-2 – Central Business Zone.

II. DESCRIPTION

A. SITE SIZE: 7.86 Ac (Vol 481 - Page 282)

LEASE AREA/COMPOUND AREA: 4,631 SF/4,061 SF

B. TOWER TYPE/HEIGHT: A 110' Monopine.

C. SITE TOPOGRAPHY AND SURFACE: Wooded portion of residential property. Site slopes decreasingly from east to west.

D. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The proposed compound is located toward the northeastern corner of a 7.86± acre residential parcel in a wooded area. There are wetlands located approximately 168' west of the proposed compound and approximately 17' east of the proposed gravel access driveway at its closest point.

E. LAND USE WITHIN ¼ MILE OF SITE: Residential properties to the north, south, and west. Public School to the east.

III. FACILITIES

A. POWER COMPANY: Wallingford Electric

B. POWER PROXIMITY TO SITE: 900'±

C. TELEPHONE COMPANY: Frontier

D. PHONE SERVICE PROXIMITY: 900'±

E. VEHICLE ACCESS TO SITE: Access to the proposed telecommunication facility will be along existing paved driveway (approx. 40'±) to a proposed gravel access driveway (approx. 795'±)

F. OBSTRUCTION: N/A

G. CLEARING AND FILL REQUIRED: Total area of disturbance is 42,000± sf.; 105 trees will need to be removed. The site improvements shall entail approximately 480 CY of cut for utility trenching and 2,450 CY of excavation and 400 CY of fill for the construction of the compound and access driveway. Approximately 380 CY of broken stone is needed for the compound and driveway construction.

IV. LEGAL

A. PURCHASE [ ] LEASE [X]

B. OWNER: GAIL & MICHAEL MONACO

C. ADDRESS: 222 Clintonville Road, Northford, CT 06472

D. DEED ON FILE AT: Volume 481 - Page 282

ALL-POINTS
TECHNOLOGY CORPORATION

Site Impact Statement

Site: North Branford CT021
Site Address: 222 Clintonville Road
Northford, CT 06472

Access distances:
Existing paved driveway (approx. 40'±) to a Proposed gravel access driveway (approx. 795'±)

Distance to Nearest Wetlands
168'+/- west of the proposed compound. At its closest point (near point where proposed driveway intersects with the existing paved driveway) 17'+/- east of the proposed gravel access driveway.

Distance to Property Lines:
155'+/- to the northern property boundary from the tower
129'+/- to the eastern property boundary from the tower
543'+/- to the southwestern property boundary from the tower
96'+/- to the southern property boundary from the tower

114'+/- to the northern property boundary from the compound
81'+/- to the eastern property boundary from the compound
503'+/- to the southwestern property boundary from the compound
51'+/- to the southern property boundary from the compound

Residence Information:
There are 36 single family residences within 1,000' feet of the compound. The closest off site single family residence to the compound is approximately 253 feet to the north and is located at Parcel 67D-6A (61 Pistapaug Rd.)

Special Building Information:
N/A

Tree Removal Count:
105 trees need to be removed to construct the access driveway and the compound area.

6" - 10" dbh	27 trees
10" – 14" dbh	50 trees
14" or greater dbh	28 trees

Cut/Fill: The site improvements shall entail approximately 480 CY of cut for utility trenching and 2,450 CY of excavation and 400 CY of fill for the construction of the compound and access driveway. Approximately 380 CY of broken stone is needed for the compound and driveway construction.

Clearing/Grading Necessary: Total area of disturbance = 42,000+/- SF (0.96+/- Ac)

ALL-POINTS
TECHNOLOGY CORPORATION

Tree Inventory

January 11, 2022

Robinson & Cole, LLP
Attn: Kenneth Baldwin
280 Trumbull Street
Hartford, CT 06103

RE: Tree Inventory
Site: North Branford CT021
222 Clintonville Road
Northford, CT 06472

Dear Mr. Baldwin:

A Tree Inventory was completed at the subject site during the month of March 2021 to determine the size and quantity of existing trees that will need to be removed for the installation of the proposed facility. The proposed site will require clearing and earthwork to construct the access driveway and to construct the compound area. Installation of the proposed compound area and access driveway will require the removal of 105 trees.

6" - 10" dbh	27 trees
10" – 14" dbh	50 trees
14" or greater dbh	28 trees

The area to be disturbed for construction of the compound area will be approximately 4,631 square feet (sf) of interior area currently wooded. A new access driveway will be installed to connect to the proposed compound. The total combined area of disturbance for compound, access drive, and utility improvements is approximately 42,000 sf.

Sincerely,

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

Robert C. Burns, P.E.
Program Manager

Homeland Towers
222 Clintonville Road, Northford
1000' RESIDENTIAL BUILDING LIST

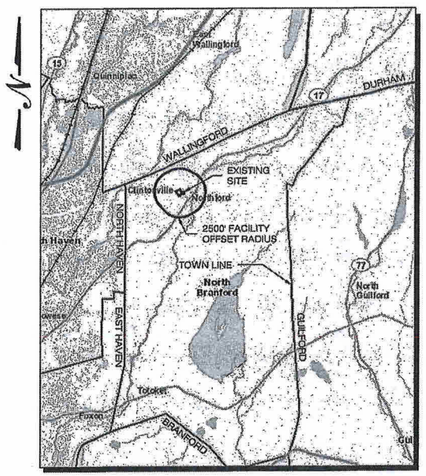
PARCEL ID	STREET ADDRESS	BUILDING TYPE	DISTANCE FROM COMPOUND* (ft+/-)
67D-6B	41 Pistapaug Road	Single Family	450'
67D-6A	61 Pistapaug Road	Single Family	253'
67D-7-1	246 Clintonville Road	Apartments	208'
67D-7	250 Clintonville Road	Single Family	470'
67D-14-2	11 Woodhouse Avenue	Single Family	905'
67D-14-1	34 Pistapaug Road	Single Family	745'
67D-15B	38 Pistapaug Road	Single Family	680'
67D-15A	42 Pistapaug Road	Single Family	610'
67D-15A-1	46 Pistapaug Road	Single Family	800'
67D-15A-2	50 Pistapaug Road	Single Family	875'
67D-15A-3	54 Pistapaug Road	Single Family	605'
67D-15F	58 Pistapaug Road	Single Family	925'
67D-15F-1	62 Pistapaug Road	Single Family	660'
67D-15E	66 Pistapaug Road	Single Family	745'
67D-15C	68 Pistapaug Road	Single Family	970'
67D-15D	72 Pistapaug Road	Single Family	840'
67D-12	67 Pistapaug Road	Single Family	450'
67D-11	75 Pistapaug Road	Single Family	585'
67D-11A	77 Pistapaug Road	Single Family	665'
67D-10	58 Old Post Road	Single Family	730'
67D-59	61 Old Post Road	Single Family	900'
67D-60	49 Old Post Road	Single Family	750'
67D-67-5	35 Old Post Road	Single Family	640'
67D-67-4	31 Old Post Road	Single Family	635'
67D-67-1	1448 Middletown Avenue	Single Family	915'
67D-66	1444 Middletown Avenue	Single Family	870'
67D-65	1438 Middletown Avenue	Single Family	840'
67D-61	23 Old Post Road	Single Family	610'
67D-62	19 Old Post Road Rear	Single Family	595'
62A-23	2 Old Post Road	Single Family	855'
62A-24-1	295 Clintonville Road	Single Family	905'
62A-24A	291 Clintonville Road	Single Family	815'
62A-24	287 Clintonville Road	Single Family	685'
62A-25	277 Clintonville Road	Single Family	665'
67D-1	267 Clintonville Road	Single Family	645'
67-8-1	4 Old Post Road	Single Family	450'

*Information gathered from North Branford Assessor's Maps 62A & 67D & CTECO Ortho Aerial Images

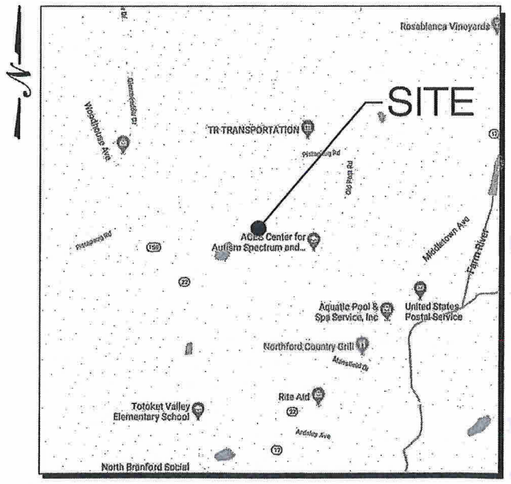
HOMELAND TOWERS, LLC

WIRELESS TELECOMMUNICATIONS FACILITY

NORTH BRANFORD
222 CLINTONVILLE ROAD
NORTHFORD, CT 06472



MUNICIPAL NOTIFICATION LIMIT MAP
SCALE: 1" = 1.5 Miles



VICINITY MAP
SCALE: 1" = 500'

DRAWING INDEX

SITE INFORMATION

PROJECT LOCATION: 222 CLINTONVILLE ROAD
NORTHFORD, CT 06472

PROJECT DESCRIPTION: RAWLAND SITE W/ GROUND EQUIPMENT WITHIN 4,061± SF TELECOMMUNICATIONS EQUIPMENT COMPOUND W/ PROP. 110'± AGL MONOPINE.

PROPERTY DEVELOPER: HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

DEVELOPER CONTACT: RAY VERGATI
(203) 297-6345

ENGINEER CONTACT: ROBERT C. BURNS, P.E.
(860) 552-2036

LATITUDE: 41° 23' 44.9168"N
LONGITUDE: 72° 47' 35.0815"W
ELEVATION: 277.7'± AMSL

MAP: 67D
LOT: 6
ZONE: R40

OWNER:
GAIL & MICHAEL MONACO
222 CLINTONVILLE ROAD
NORTHFORD, CT 06472

APPLICANTS:
HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810
RAY VERGATI
(203) 297-6345

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

HOMELAND PROJECT ATTORNEY:
ROBINSON & COLE
280 TRUMBULL STREET
HARTFORD, CT 06103
(800) 826-3579

POWER PROVIDER:
WALLINGFORD ELECTRIC: (203) 294-2020

TELCO PROVIDER:
FRONTIER (800) 921-8102

CALL BEFORE YOU DIG:
(800) 922-4455

GOVERNING CODES:
CONNECTICUT STATE BUILDING CODE, LATEST EDITION
NATIONAL ELECTRIC CODE, LATEST EDITION
TIA-222-H

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

Cellco Partnership d/b/a
verizon WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX:(860)-663-0935

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6	01/18/22	CLIENT COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

HOMELAND TOWERS NORTH BRANFORD

SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

APT FILING NUMBER: CT283990

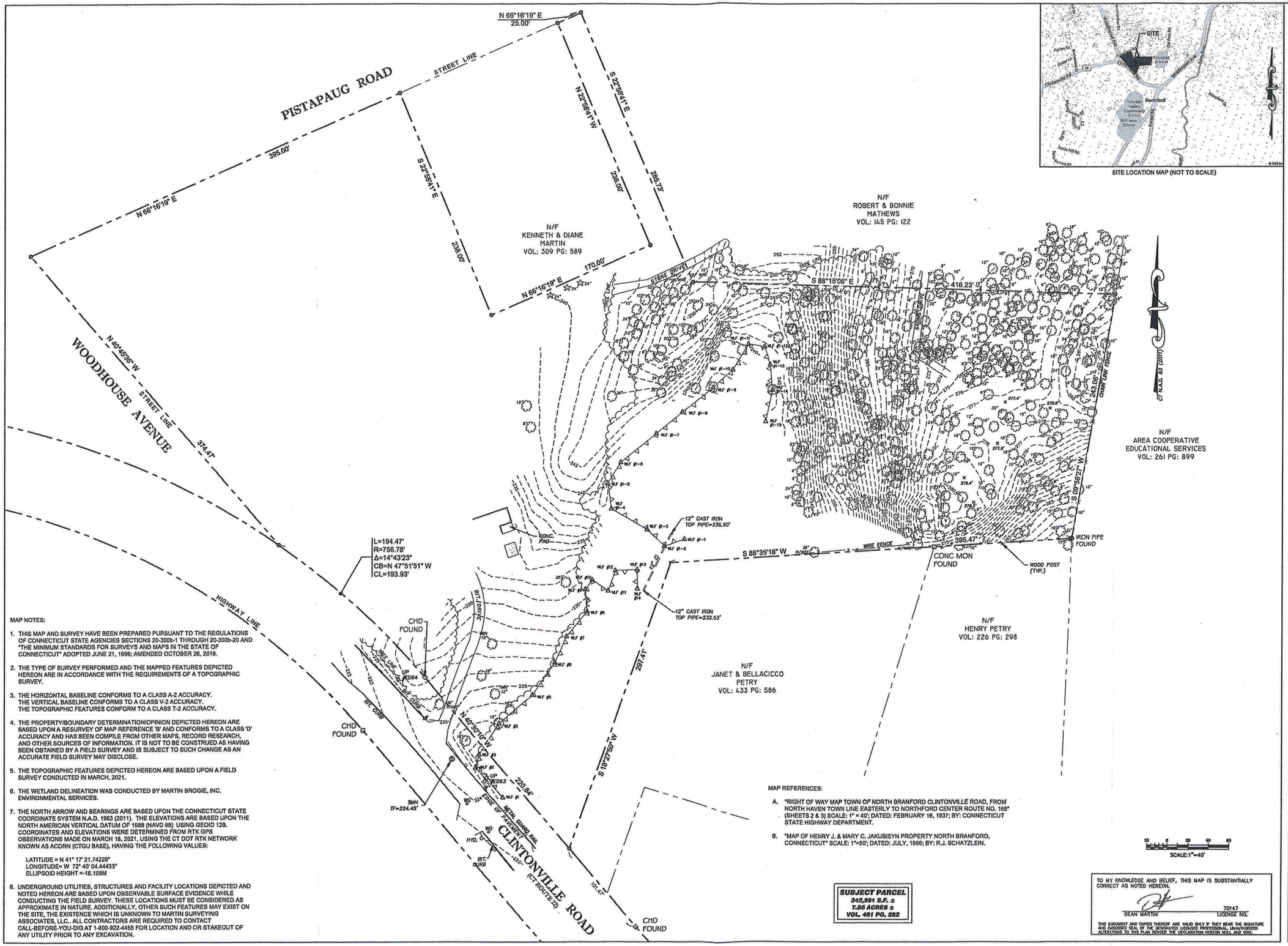
DATE: 07/23/21 | DRAWN BY: CSH

CHECKED BY: RCB

SHEET TITLE:
TITLE SHEET & INDEX

SHEET NUMBER:
T-1

STATE OF CONNECTICUT ROBERT C. BURNS 21071 REGISTERED PROFESSIONAL ENGINEER



SITE LOCATION MAP (NOT TO SCALE)

LEGEND:

IRON PIN (FOUND)	SIGN
Rebar/Drill Hole (To Be Set)	POST
MONUMENT (FOUND)	LIGHT POLE
MANHOLE	GUY ANCHOR
DRAINAGE MANHOLE	UTILITY POLE
SANITARY MANHOLE	WATER GATE
ELEC. MANHOLE	WATER METER
TELE. MANHOLE	GAS VALVE
"C" CATCH BASIN	GAS METER
"C-L" CATCH BASIN	TRANSFORMER
DECIDUOUS TREES	ELEC. METER
EVERGREEN TREES	MAIL BOX
SHRUB/BUSH	HAND HOLE
FLAG POLE	BUTTON BOX
TRAFFIC CONTROL BOX	A.C. UNIT
	TRAFFIC LIGHT POLE

BOUNDARY LINE
GUARD RAIL
UNDERGROUND PIPING (San.,Stm.)
G U/G GAS LINE
E U/G ELEC. LINE
W WATER LINE
OVERHEAD UTILITIES
T U/G TELE. LINE
CHAIN LINK FENCE
TREE LINE

MAP NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND "THE MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED JUNE 21, 1996; AMENDED OCTOBER 26, 2018.
2. THE TYPE OF SURVEY PERFORMED AND THE MAPPED FEATURES DEPICTED HEREON ARE IN ACCORDANCE WITH THE REQUIREMENTS OF A TOPOGRAPHIC SURVEY.
3. THE HORIZONTAL BASELINE CONFORMS TO A CLASS A-2 ACCURACY. THE VERTICAL BASELINE CONFORMS TO A CLASS V-2 ACCURACY. THE TOPOGRAPHIC FEATURES CONFORM TO A CLASS T-2 ACCURACY.
4. THE PROPERTY/BOUNDARY DETERMINATION/OPINION DEPICTED HEREON ARE BASED UPON A RESURVEY OF MAP REFERENCE 'B' AND CONFORMS TO A CLASS 'D' ACCURACY AND HAS BEEN COMPILE FROM OTHER MAPS, RECORD RESEARCH, AND OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED BY A FIELD SURVEY AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
5. THE TOPOGRAPHIC FEATURES DEPICTED HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED IN MARCH, 2021.
6. THE WETLAND DELINEATION WAS CONDUCTED BY MARTIN BROGIE, INC. ENVIRONMENTAL SERVICES.
7. THE NORTH ARROW AND BEARINGS ARE BASED UPON THE CONNECTICUT STATE COORDINATE SYSTEM N.A.D. 1983 (2011). THE ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) USING GEOID 12B. COORDINATES AND ELEVATIONS WERE DETERMINED FROM RTK GPS OBSERVATIONS MADE ON MARCH 18, 2021, USING THE CT DOT RTK NETWORK KNOWN AS ACORN (CTGU BASE), HAVING THE FOLLOWING VALUES:

   LATITUDE = N 41° 17' 21.74228"
   LONGITUDE= W 72° 40' 04.44433"
   ELLIPSOID HEIGHT =-18.108M

8. UNDERGROUND UTILITIES, STRUCTURES AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON ARE BASED UPON OBSERVABLE SURFACE EVIDENCE WHILE CONDUCTING THE FIELD SURVEY. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE WHICH IS UNKNOWN TO MARTIN SURVEYING ASSOCIATES, LLC.. ALL CONTRACTORS ARE REQUIRED TO CONTACT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 FOR LOCATION AND OR STAKEOUT OF ANY UTILITY PRIOR TO ANY EXCAVATION.

MAP REFERENCES:

A. "RIGHT OF WAY MAP TOWN OF NORTH BRANFORD CLINTONVILLE ROAD, FROM NORTH HAVEN TOWN LINE EASTERLY TO NORTHFORD CENTER ROUTE NO. 168" (SHEETS 2 & 3) SCALE: 1" = 40; DATED: FEBRUARY 16, 1937; BY: CONNECTICUT STATE HIGHWAY DEPARTMENT.

B. "MAP OF HENRY J. & MARY C. JAKUBISYN PROPERTY NORTH BRANFORD, CONNECTICUT" SCALE: 1"=50'; DATED: JULY, 1986; BY: R.J. SCHATZLEIN.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DEAN MARTIN — 70147 LICENSE NO.

THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED LICENSED PROFESSIONAL. UNAUTHORIZED ALTERATIONS TO THIS PLAN RENDER THE DECLARATION HEREON NULL AND VOID.

martin
Surveying Associates, LLC
201 CHRISTIAN LANE BERLIN, CT 06037
860-832-9328 860-357-4604 (FAX)

REVISIONS:

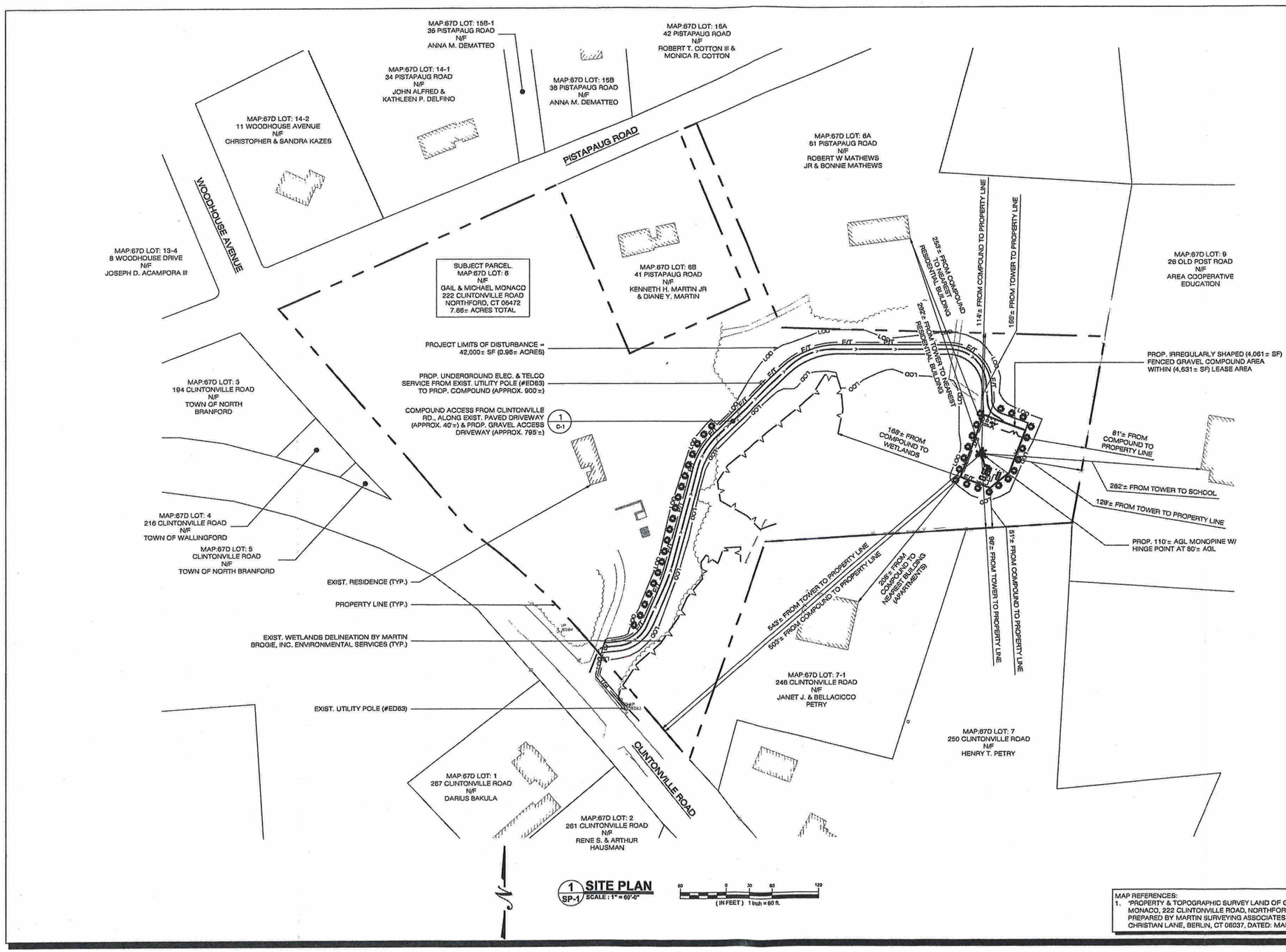
PROPERTY & TOPOGRAPHIC SURVEY LAND OF GAIL & MICHAEL MONACO 222 CLINTONVILLE ROAD NORTHFORD, CONNECTICUT

MSA PROJECT NO: 21-023

SCALE: 1"=40'	DRAWN BY: G.S.D.
DATE: 03/23/20201	CHECKED BY:

STATE OF CONNECTICUT DEAN C. MARTIN No.70147 LICENSED LAND SURVEYOR

SHEET: 1 OF 1



MAP REFERENCES:
1. "PROPERTY & TOPOGRAPHIC SURVEY LAND OF GAIL & MICHAEL MONACO, 222 CLINTONVILLE ROAD, NORTHFORD, CT", 1 OF 1; PREPARED BY MARTIN SURVEYING ASSOCIATES, LLC, 201 CHRISTIAN LANE, BERLIN, CT 06037, DATED: MARCH 23, 2021,

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

Cellco Partnership d/b/a
verizon WIRELESS
20 ALEXANDER DRIVE
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WWW.ALLPOINTSTECH.COM FAX:(860)-663-0935

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5	01/14/22	CLIENT COMMENTS: RCB
6	01/19/22	CLIENT COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

HOMELAND TOWERS NORTH BRANFORD

SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

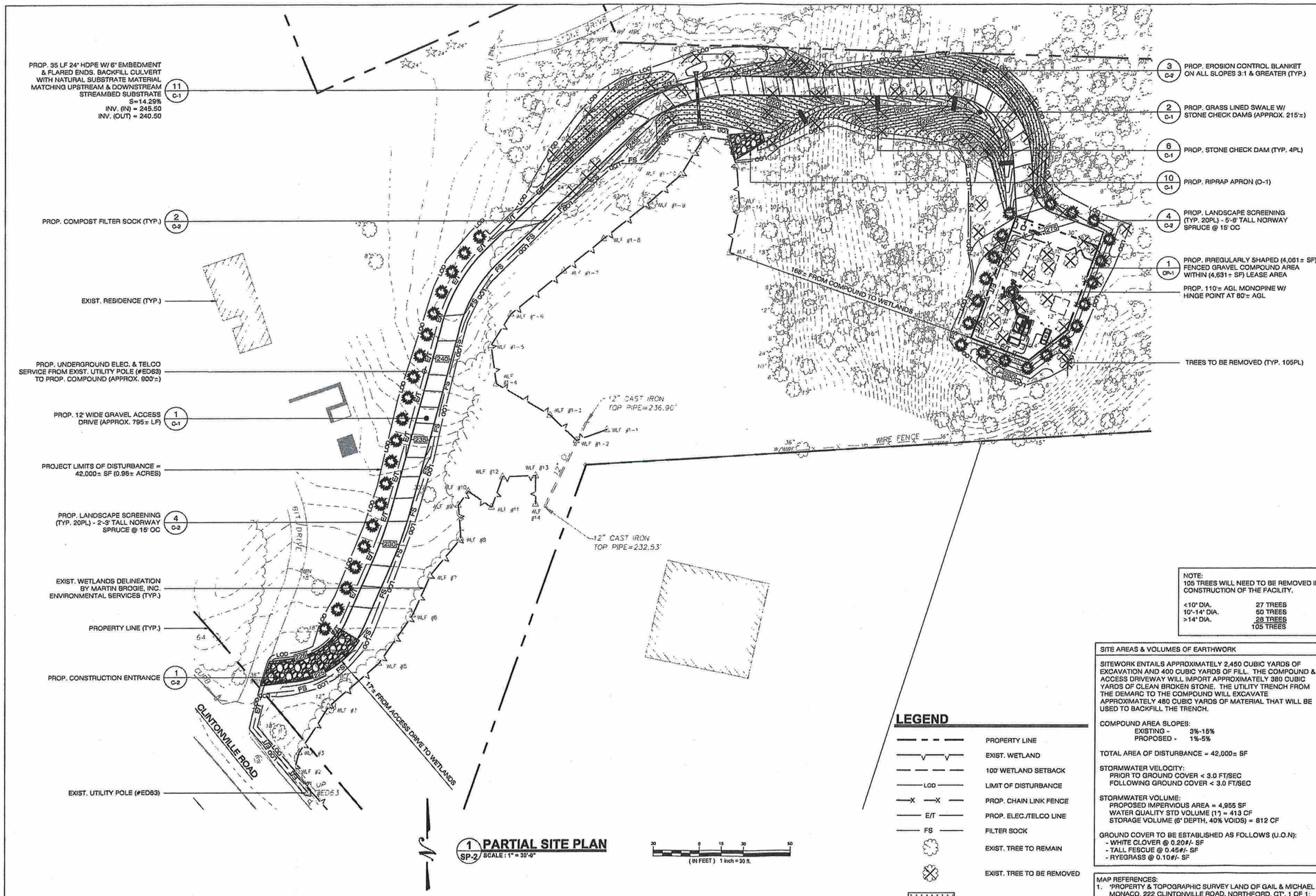
APT FILING NUMBER: CT283990

DATE: 07/23/21 | DRAWN BY: CSH | CHECKED BY: RCB

SHEET TITLE:
SITE PLAN & ABUTTERS MAP

SHEET NUMBER:
SP-1

STATE OF CONNECTICUT · ROBERT C. BURNS · 21071 · REGISTERED PROFESSIONAL ENGINEER



LEGEND

- PROPERTY LINE
- EXIST. WETLAND
- 100' WETLAND SETBACK
- LOD — LIMIT OF DISTURBANCE
- X X — PROP. CHAIN LINK FENCE
- E/T — PROP. ELEC./TELCO LINE
- FS — FILTER SOCK
- EXIST. TREE TO REMAIN
- EXIST. TREE TO BE REMOVED
- EROSION CONTROL BLANKET

NOTE:
105 TREES WILL NEED TO BE REMOVED IN CONSTRUCTION OF THE FACILITY.

<10" DIA.	27 TREES
10"-14" DIA.	50 TREES
>14" DIA.	28 TREES
	105 TREES

SITE AREAS & VOLUMES OF EARTHWORK

SITEWORK ENTAILS APPROXIMATELY 2,450 CUBIC YARDS OF EXCAVATION AND 400 CUBIC YARDS OF FILL. THE COMPOUND & ACCESS DRIVEWAY WILL IMPORT APPROXIMATELY 380 CUBIC YARDS OF CLEAN BROKEN STONE. THE UTILITY TRENCH FROM THE DEMARC TO THE COMPOUND WILL EXCAVATE APPROXIMATELY 480 CUBIC YARDS OF MATERIAL THAT WILL BE USED TO BACKFILL THE TRENCH.

COMPOUND AREA SLOPES:
EXISTING - 3%-15%
PROPOSED - 1%-5%

TOTAL AREA OF DISTURBANCE = 42,000± SF

STORMWATER VELOCITY:
PRIOR TO GROUND COVER < 3.0 FT/SEC
FOLLOWING GROUND COVER < 3.0 FT/SEC

STORMWATER VOLUME:
PROPOSED IMPERVIOUS AREA = 4,955 SF
WATER QUALITY STD VOLUME (1") = 413 CF
STORAGE VOLUME (6" DEPTH, 40% VOIDS) = 812 CF

GROUND COVER TO BE ESTABLISHED AS FOLLOWS (U.O.N):
- WHITE CLOVER @ 0.20#/- SF
- TALL FESCUE @ 0.45#/- SF
- RYEGRASS @ 0.10#/- SF

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1. "PROPERTY & TOPOGRAPHIC SURVEY LAND OF GAIL & MICHAEL MONACO, 222 CLINTONVILLE ROAD, NORTHFORD, CT", 1 OF 1; PREPARED BY MARTIN SURVEYING ASSOCIATES, LLC, 201 CHRISTIAN LANE, BERLIN, CT 06037, DATED: MARCH 23, 2021,

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4	01/11/22	CLIENT COMMENTS: RCB
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PROF: ROBERT C. BURNS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 587 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

HOMELAND TOWERS NORTH BRANFORD

SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

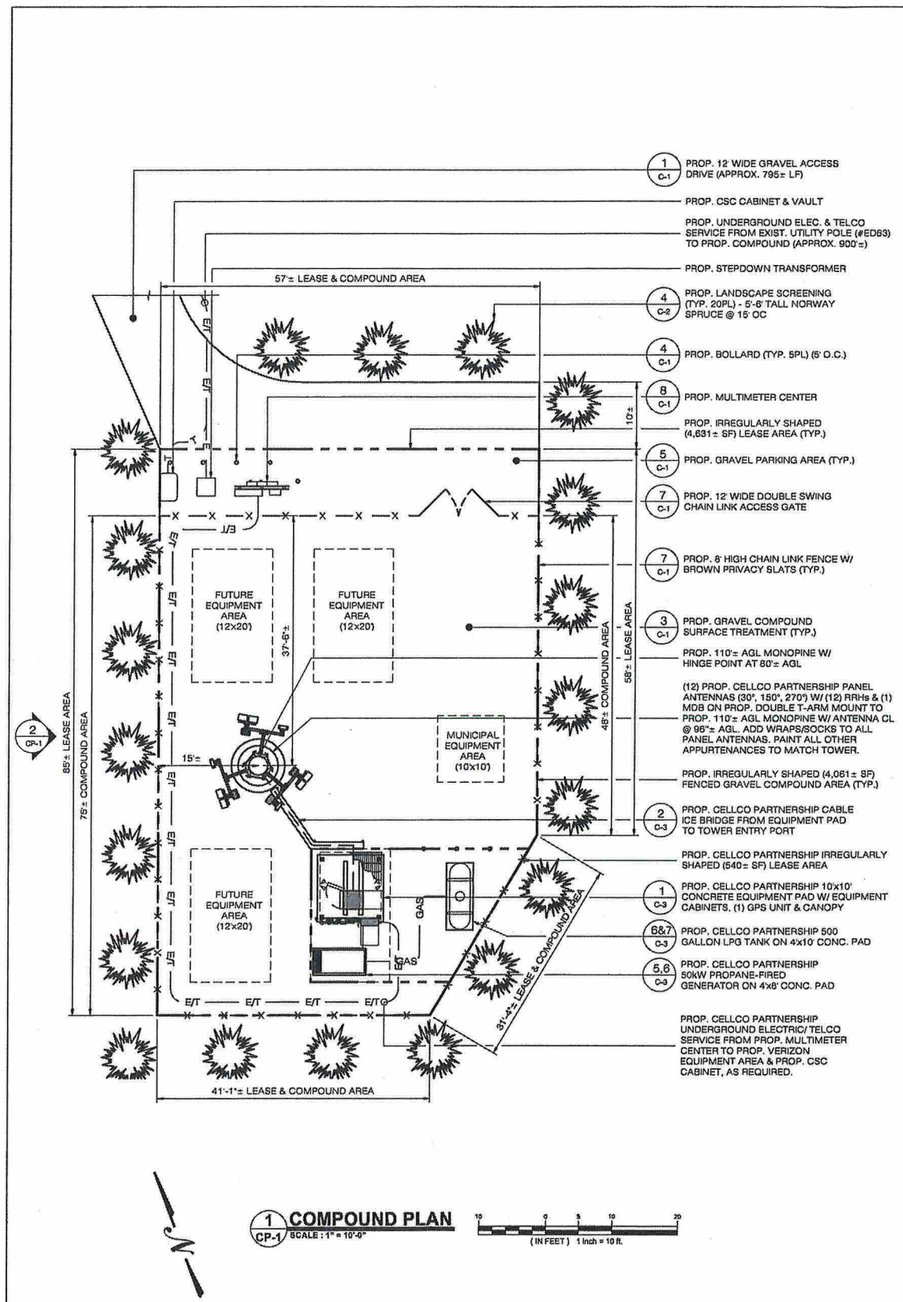
APT FILING NUMBER: CT263090

DATE: 07/23/21 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
PARTIAL SITE PLAN

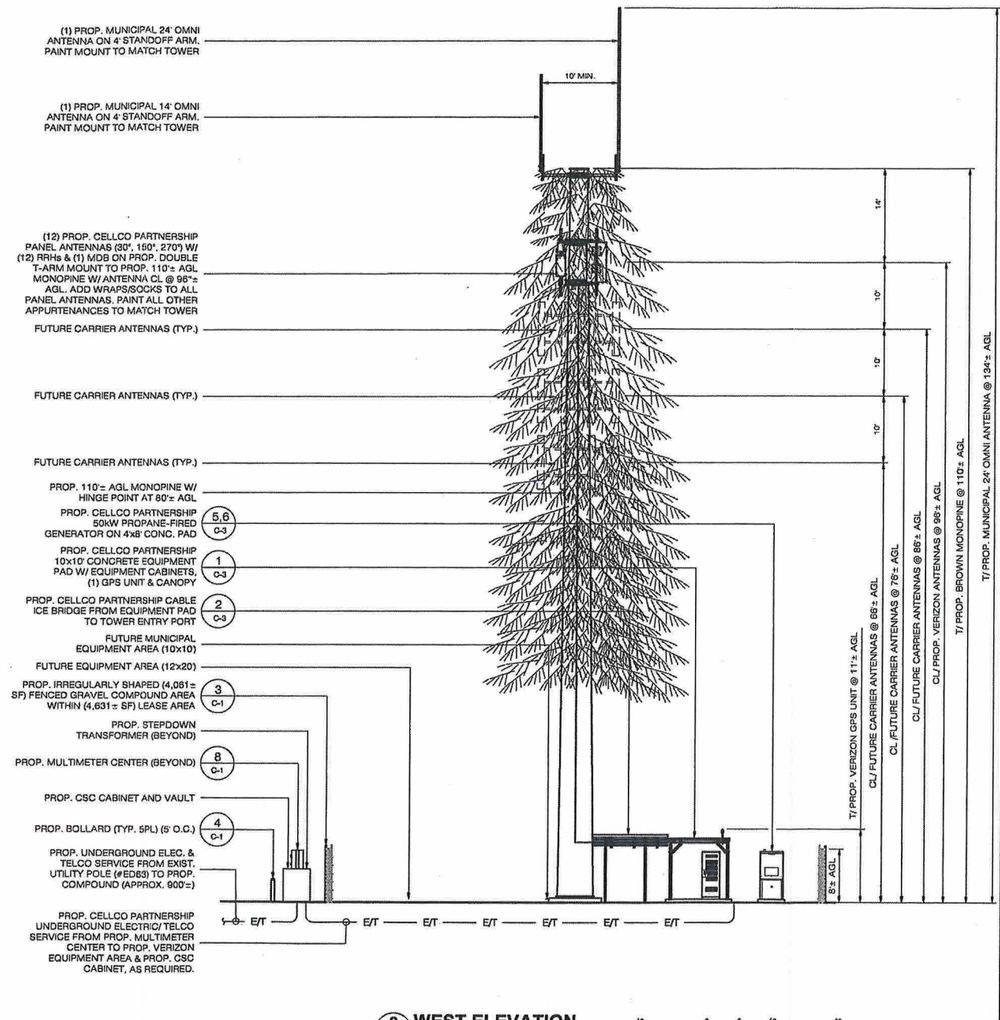
SHEET NUMBER: **SP-2**

STATE OF CONNECTICUT · ROBERT C. BURNS · 20071 · REGISTERED PROFESSIONAL ENGINEER



1 CP-1 **COMPOUND PLAN** SCALE : 1" = 10'-0"

10 0 5 10 20
(IN FEET) 1 inch = 10 ft.



2 CP-1 **WEST ELEVATION** SCALE : 1" = 10'-0"

10 0 5 10 20
(IN FEET) 1 inch = 10 ft.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

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verizon WIRELESS
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6	01/18/22	CLIENT COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

HOMELAND TOWERS NORTH BRANFORD

SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

APT FILING NUMBER: CT283990

DATE: 07/23/21 | DRAWN BY: CSH

CHECKED BY: RCB

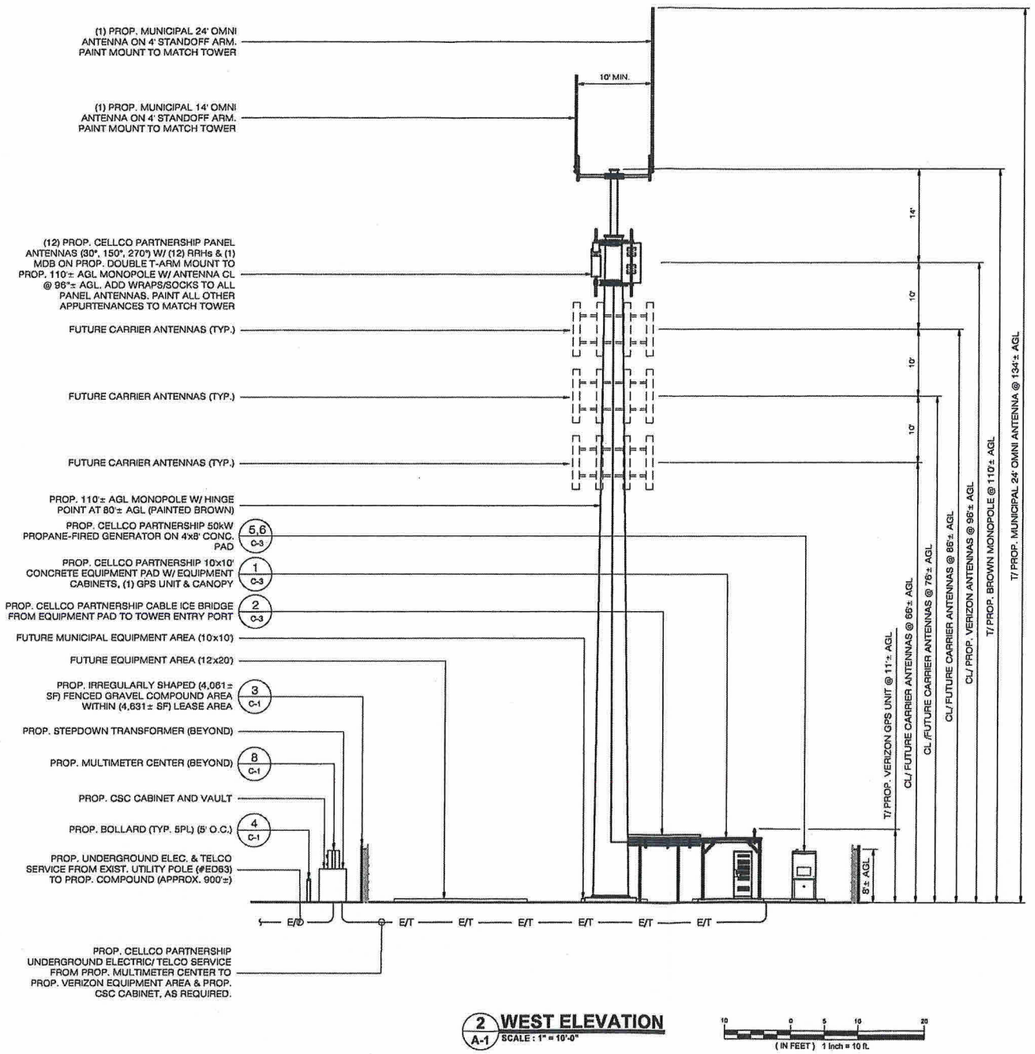
SHEET TITLE:

COMPOUND PLAN & TOWER ELEVATION

SHEET NUMBER:

CP-1

STATE OF CONNECTICUT · DEPARTMENT OF EMERGENCY SERVICES AND PUBLIC PROTECTION · 20071 · LICENSED PROFESSIONAL ENGINEER



2 / A-1 WEST ELEVATION
SCALE : 1" = 10'-0"

10 0 5 10 20
(IN FEET) 1 inch = 10 ft.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

Cellco Partnership d/b/a
verizon WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX:(860)-663-0935

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SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

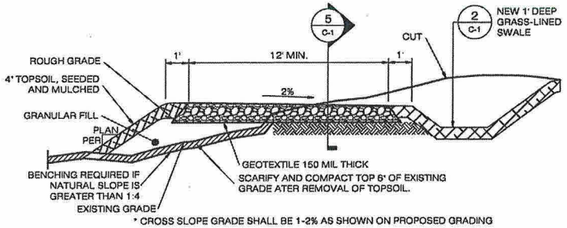
APT FILING NUMBER: CT283990

DATE: 07/23/21 | DRAWN BY: CSH | CHECKED BY: RCB

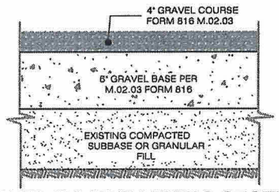
SHEET TITLE:
ALTERNATE MONOPOLE ELEVATION

SHEET NUMBER:
A-1

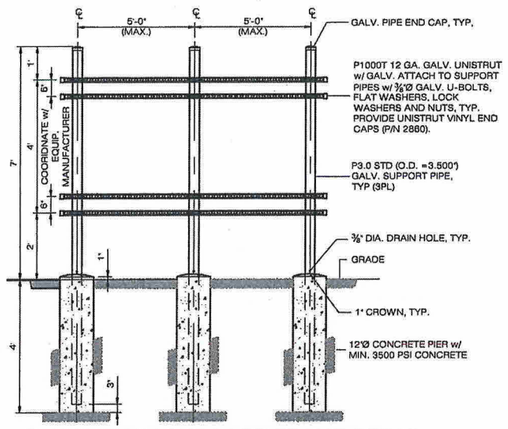
STATE OF CONNECTICUT ROBERT CHARLES BURNS 20971 REGISTERED PROFESSIONAL ENGINEER



1 C-1 TYPICAL ROAD CROSS SECTION
SCALE : N.T.S.

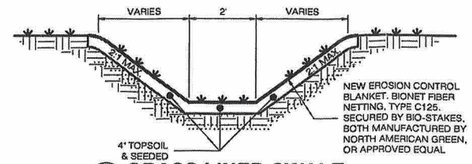


5 C-1 GRAVEL ROAD/PARKING SECTION
SCALE : N.T.S.

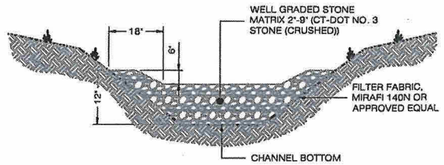


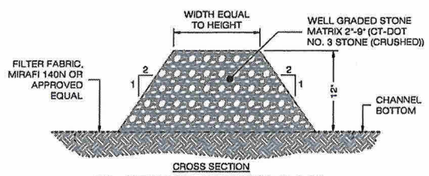
8 C-1 UTILITY BACKBOARD FRAME DETAIL
SCALE : N.T.S.

9 C-1 TYPICAL SIGNAGE
SCALE : N.T.S.

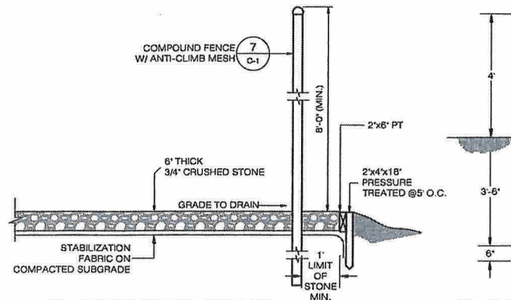


2 C-1 GRASS LINED SWALE
SCALE : N.T.S.

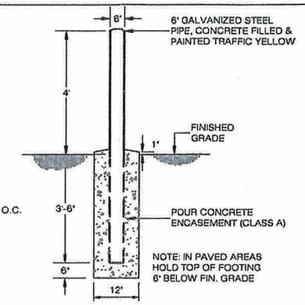




6 C-1 STONE CHECK DAM
SCALE : N.T.S.



3 C-1 COMPOUND DETAIL
SCALE : N.T.S.



4 C-1 BOLLARD DETAIL
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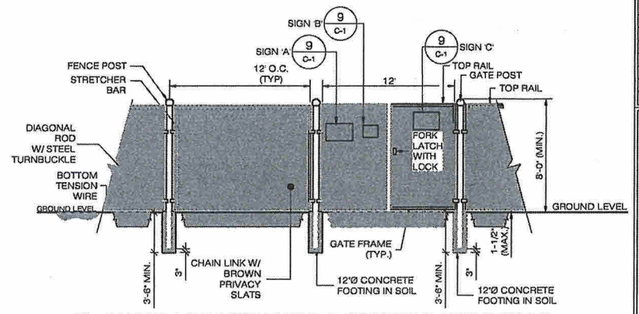
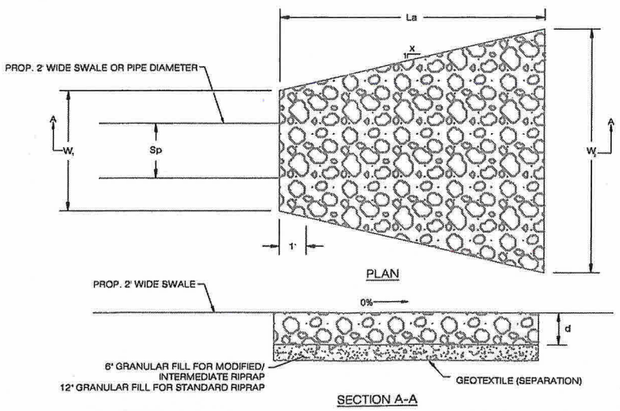


7 C-1 CHAIN-LINK FENCING & FENCE GATE DETAIL
SCALE : N.T.S.

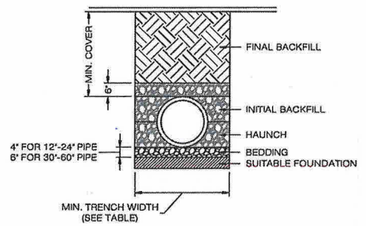


LEGEND
Sp= INSIDE PIPE DIAMETER
La= LENGTH OF RIPRAP APRON
d= 12" MODIFIED RIPRAP
16" INTERMEDIATE RIPRAP
36" STANDARD RIPRAP

	X	W_1	W_2
TYPE A RIPRAP APRON	3	3Sp	3Sp + 0.7 La
TYPE B RIPRAP APRON	5	3Sp	3Sp + 0.4 La

OUTLET	SWALE WIDTH/ PIPE DIAMETER Sp (FT)	APRON LENGTH La (FT)	APRON INITIAL WIDTH W1 (FT)	APRON TERMINAL WIDTH W2 (FT)	RIPRAP SPECIFICATION
O-1	1	5	3	6.5	MODIFIED

10 C-1 RIPRAP APRON
SCALE : N.T.S.



RECOMMENDED MIN. TRENCH WIDTH	
PIPE DIA.	MIN. TRENCH WIDTH
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
48"	80"
60"	96"

NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321 , "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

11 C-1 HDPE STORM DRAINAGE TRENCH DETAIL
SCALE : N.T.S.

HOMELAND TOWERS, LLC
9 HARMONY STREET
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(203) 297-6345

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HOMELAND TOWERS
NORTH BRANFORD

SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

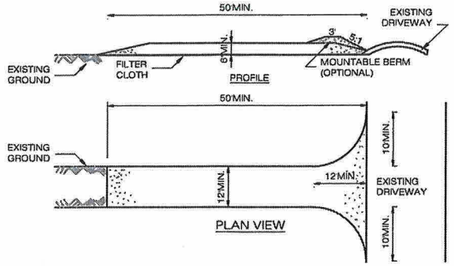
APT FILING NUMBER: CT283980

DATE: 07/23/21 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
SITE DETAILS

SHEET NUMBER:
C-1

STATE OF CONNECTICUT ROBERT C. BURNS 20071 REGISTERED PROFESSIONAL ENGINEER



CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 C-2 CONSTRUCTION ENTRANCE DETAIL

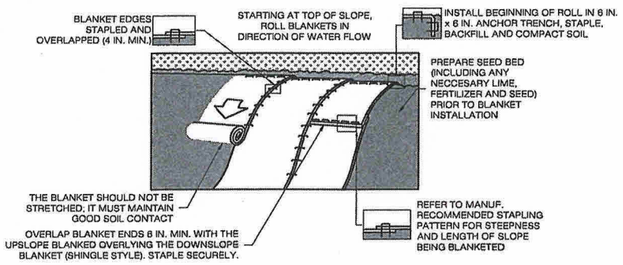
SCALE : N.T.S.

SEQUENCE OF CONSTRUCTION

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" PORTION OF RECPS BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS DOWN HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON THE RECPS TYPE.
5. CONSECUTIVE RECPS SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPS WIDTH.

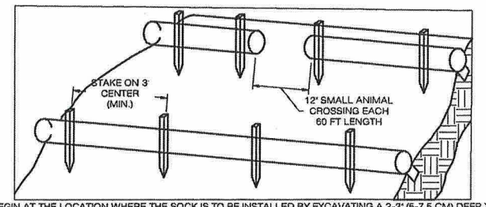
NOTES:

1. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
3. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
4. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.



3 C-2 EROSION CONTROL BLANKET STEEP SLOPES

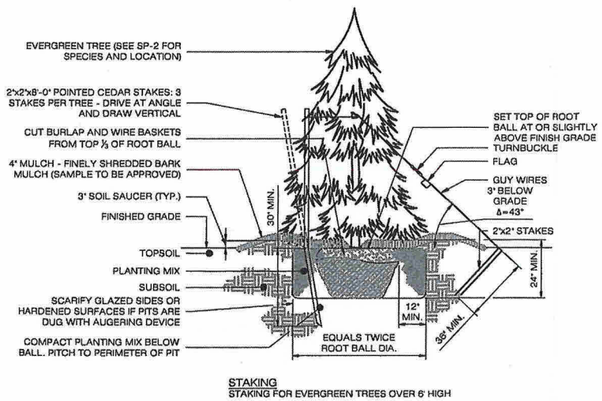
SCALE : N.T.S.



1. BEGIN AT THE LOCATION WHERE THE SOCK IS TO BE INSTALLED BY EXCAVATING A 2-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE SOCK IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE SOCK ON THE UPHILL SIDE. SOCKS SHALL BE INSTALLED IN 60 FT CONTINUOUS LENGTHS WITH ADJACENT SOCKS TIGHTLY ABUT. EVERY 60 FT THE SOCK ROW SHALL BE SPACED 12 INCHES CLEAR, END TO END, FOR AMPHIBIAN AND REPTILE TRAVEL. THE OPEN SPACES SHALL BE STAGGERED MID LENGTH OF THE NEXT DOWN GRADIENT SOCK.
3. SECURE THE SOCK WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 -1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE SOCK. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

COMPOST FILTER SOCK SEDIMENTATION CONTROL BARRIER

2 C-2 SCALE : N.T.S.



STAKING
STAKING FOR EVERGREEN TREES OVER 6' HIGH

4 C-2 EVERGREEN TREE PLANTING

SCALE : N.T.S.

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9 HARMONY STREET
2nd FLOOR
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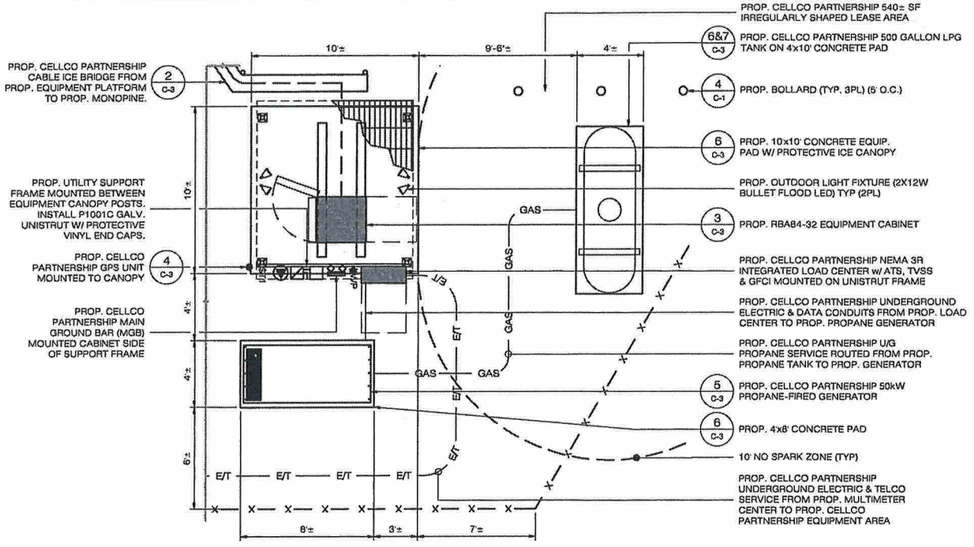
SHEET TITLE:

EROSION CONTROL & LANDSCAPING DETAILS

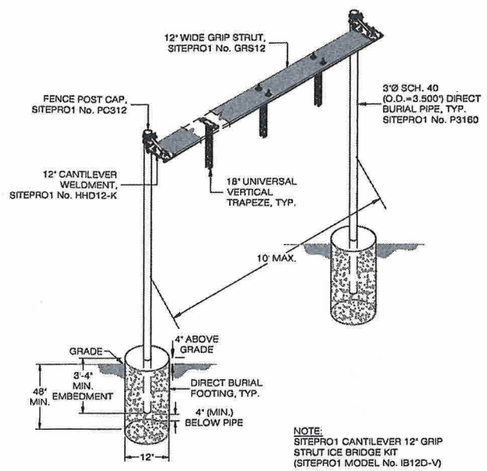
SHEET NUMBER:

C-2

STATE OF CONNECTICUT · ROBERT CHARLES BURNS · 21071 · LICENSED PROFESSIONAL ENGINEER

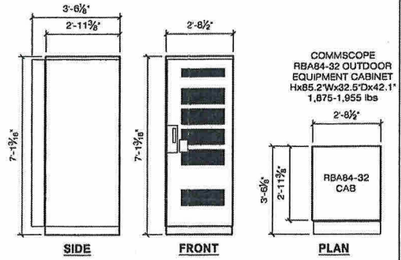


1 C-3 ENLARGED EQUIPMENT PLAN
SCALE : 1/4" = 1'-0"

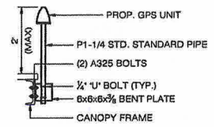


NOTE:
SITEPRO1 CANTILEVER 12" GRIP STRUT ICE BRIDGE KIT (SITEPRO1 MODEL No. IB12D-V)

2 C-3 CABLE BRIDGE & COAX HANGER DETAIL
SCALE : N.T.S.



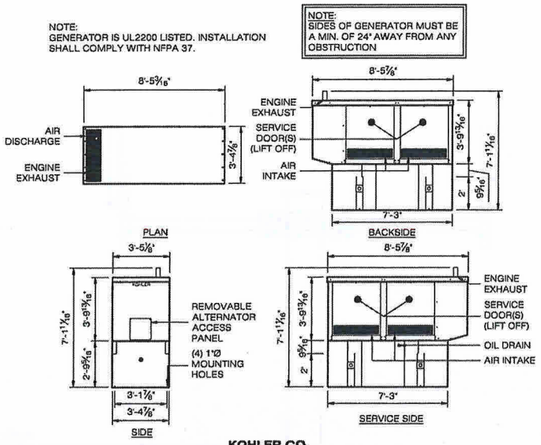
3 C-3 OUTDOOR RBA84-32 EQUIPMENT CABINET
SCALE : 3/8" = 1'-0"



4 C-3 GPS MOUNT
SCALE : N.T.S.

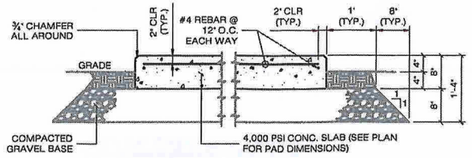
NOTE:
GENERATOR IS UL2200 LISTED. INSTALLATION SHALL COMPLY WITH NFPA 37.

NOTE:
SIDES OF GENERATOR MUST BE A MIN. OF 24" AWAY FROM ANY OBSTRUCTION

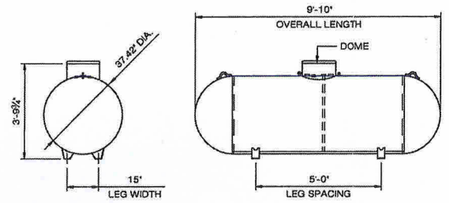


KOHLER CO.
50kW NG/PROPANE-POWERED GENERATOR
MODEL # KG50 50REOZK,
120/240V, 1PH, 3W, 60 Hz w/
SOUND ATTENUATION ENCLOSURE

5 C-3 PROPANE GENERATOR SCHEMATICS
SCALE : 3/4" = 1'-0"



6 C-3 EQUIPMENT PAD
SCALE : N.T.S.



1. 500 USWG AMSE VIII, DIV. 1 ABOVE GROUND LPG TANK
   - WEIGHT (EMPTY) = 871 lbs
2. LPG TANK TO BE BOLTED TO CONCRETE SLAB PER SUPPLIERS REQUIREMENTS.

NOTE:
PROVIDE TANK MANUFACTURER SHOP DRAWING FOR REVIEW BY ENGINEER OF RECORD PRIOR TO PURCHASE

NOTES:
1. PROPANE TANK SHALL BE REFILLED FROM HOSE PULLED FROM A REFILLING VEHICLE PARKED AT THE NEW PARKING AREA.

2. PER NFPA 58 TABLE 5.9.4.1(B) FILLER VALVE REQUIRED ON ALL TANKS BUT MAY BE MANUAL OR BACKFLOW CHECK VALVE, NFPA 58 5.9.4.1(C)(7).

3. ALL ABOVE-GROUND GAS SERVICE LINES MUST MEET NYS CODE REGULATIONS.

7 C-3 ABOVE GROUND PROPANE TANK DETAIL
SCALE : N.T.S.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

Cellco Partnership d/b/a
verizon WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX:(860)-663-0935

PERMITTING DOCUMENTS		
NO	DATE	REVISION
0	07/23/21	FOR REVIEW: RCB
1	07/28/21	CLIENT COMMENTS: RCB
2	07/29/21	CLIENT COMMENTS: RCB
3	08/30/21	CLIENT COMMENTS: RCB
4	01/11/22	CLIENT COMMENTS: RCB
5	01/14/22	CLIENT COMMENTS: RCB
6	01/18/22	CLIENT COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

HOMELAND TOWERS
NORTH BRANFORD

SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

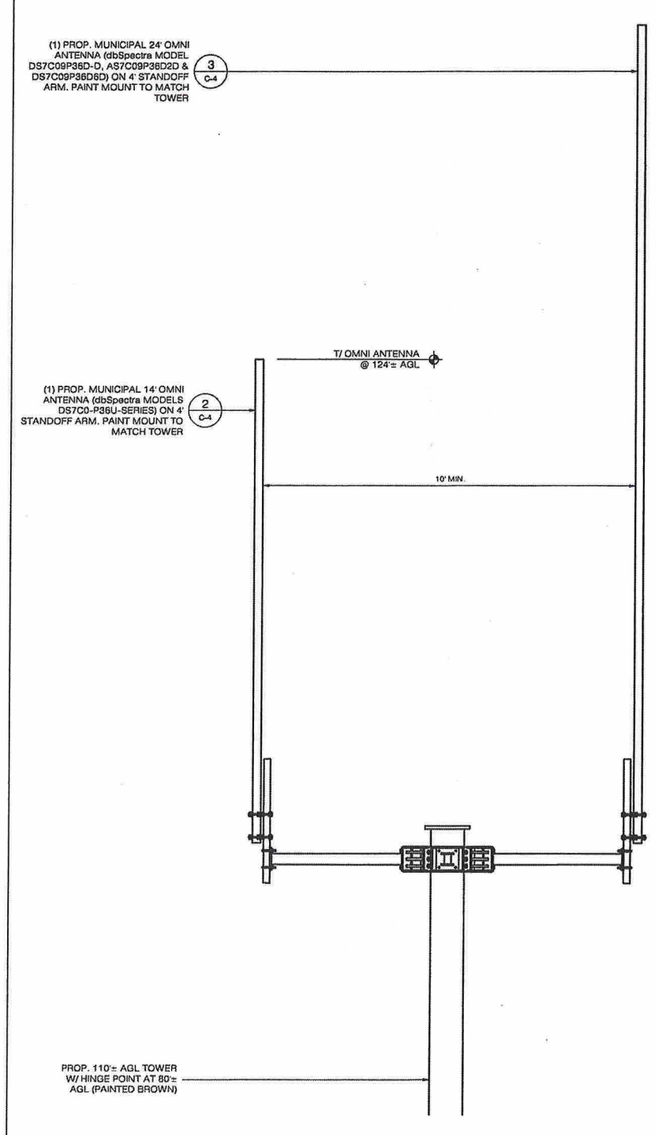
APT FILING NUMBER: CT283990

DATE: 07/23/21 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
VERIZON EQUIPMENT PLAN & DETAILS

SHEET NUMBER:
C-3

STATE OF CONNECTICUT · ROBERT CHARLES BURNS · 26671 · LICENSED PROFESSIONAL ENGINEER



1 C-4 MUNICIPAL ANTENNA MOUNT
SCALE : 1/2" = 1'-0"

dbSpectra
Always a Better Value

700/800 MHz Antenna - Omnidirectional, Low-PIM/Hi-PIP, 8.8 dBd
Models DS7C09P36U-Series Antennas

Specifications	
Design Type	True Corporate Feed
Frequency Range	764-869 MHz
Passive Intermodulation – PIM (2 x 20W carriers)	-150 dBc, 3rd Order
Bandwidth	105 MHz
Gain (average over BW)	8.8 dBd
Configuration	Single antenna
Beam Tilt (electrical downtilt)	(x) = -, 2, 4, 6, or 8 degrees
Vertical Beamwidth (E-Plane) typ.	6°
Impedance	50 ohms
VSWR / Return Loss	1.5:1 / 14 dB (min.)
Average Power Rating	500 W
Peak Instantaneous Power	25 kW
Polarization	Vertical
Lightning Protection	Direct Ground
Connector DS7C09P36U(x)D DS7C09P36U(x)M	 7/16 DIN (F) 4.3-10 (F)
Equivalent Flat-Plate Area	2.35 sq. ft.
Lateral Windload Thrust @100mph	99 lbf.
Rated Wind Speed	175 mph (without ice) 149 mph (with ½" radial ice)
Total Length	14.2 feet
Mounting Mast Length	15 inches
Mounting Hardware (included)	DSH3V3N
Mast O.D.	2.5 inches
Radome color	Horizon Blue
Radome O.D.	3.0 inches
Weight, antenna, and hardware	68 lb.s.
Shipping Weight	94 lbs.
Invertibility	Antennas are not invertible. For invertible tilt options contact dbSpectra at tech@dbspectra.com.
Ordering Information DS7C09P36U(x)D – 7/16 DIN Connector DS7C09P36U(x)M – 4.3-10 Connector	1. Replace (x) in model number with Beam Tilt options. 2. "-" in the beam-tilt options represents 0° down-tilt.

Features and Benefits

Tested to stringent Peak Instantaneous Power (PIP) levels of 25 KW using dbSpectra's multi-channel P25 PIP test bed. High PIP level is demanded by today's digital systems.

PIM-rated Design – 3rd-Order performance better than -150 dBc!

Sturdy Construction – Heavy-wall fiberglass radome minimizes tip deflection.

Excellent Lightning Protection – heavy internal conductor DC ground.

Radiation Patterns:

Specifications are subject to change. dbSpectra Inc., 1500 E Hwy 121 Bldg. A Ste 100, Lewisville, TX 75056 • P (469)322-0080 • 60 9001/14001 2015 • www.dbspectra.com • Doc 2020 • 000100-167.A

2 C-4 14' OMNI ANTENNA
SCALE : NTS

dbSpectra
Always a Better Value

700/800 MHz DUAL Antenna, Low-PIM, Hi-PIP, 9 dBd
Models DS7C09P36D-D, DS7C09P36D2D, and DS7C09P36D6D

Specifications

Design Type	True Corporate Feed/Dual
Frequency Range	764-869 MHz
Passive Intermodulation – PIM (2 x 20W)	-150 dBc, 3rd Order
Bandwidth	105 MHz
Gain - dBd (average over BW)	9.0 dBd (lower antenna) 8.7 dBd (top antenna)
Isolation (typical)	45 dB
Beam Tilt (electrical downtilt)	0° (none), 2°, or 6°
Vertical Beamwidth (E-Plane) typ.	6°
Impedance – Ohms	50
VSWR / Return Loss – dB	1.5:1 / 14 dB (min.)
Average Power Rating	500 W (each antenna)
Peak Instantaneous Power	25 kW (each antenna)
Polarization	Vertical
Lightning Protection	Direct Ground
Connector	7/16 DIN female (x2)
Equivalent Flat-Plate Area	4.8 sq. ft.
Lateral Windload Thrust @100mph	179 lbf.
Rated Wind Speed	125 mph (without ice)
Total Length	24 feet
Mounting Mast Length	35 inches
Mounting Hardware (included)	DSH-3V4N (No Torsion)
Mast O.D.	3.5 inches
Radome color	Horizon Blue
Weight (approx.)	82 lbs.
Shipping Weight (approx.)	105 lbs.
Configuration: Dual, "Two antennas in one"	

Features and Benefits

Dual-antenna configuration saves overall cost – allows two antennas in one tower slot!

High RF isolation between the independent antennas provides greater system performance and interference protection.

Tested to stringent Peak Instantaneous Power (PIP) levels of 25 KW using dbSpectra's 12-channel P25 PIP test bed. High PIP level is demanded by today's digital systems.

PIM Rated Design – better than -150 dBc.

Specifications are subject to change • dbSpectra Inc, 1500 E Hwy 121 Bldg. A Ste. 100, Lewisville, TX 75056 • P (469)322-0080 • ISO 9001:2015 • www.dbspectra.com • 000100-162 • Nov-17

3 C-4 24' OMNI ANTENNA
SCALE : NTS

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DESIGN PROFESSIONALS OF RECORD

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HOMELAND TOWERS NORTH BRANFORD

SITE ADDRESS: 222 CLINTONVILLE ROAD NORTHFORD, CT 06472

APT FILING NUMBER: CT283980

DATE: 07/23/21 | DRAWN BY: CSH | CHECKED BY: RCB

SHEET TITLE:
MUNICIPAL ANTENNA PLAN & DETAILS

SHEET NUMBER:
C-4

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