ATTACHMENT 3

General Facility Description

Route 198, Woodstock, Connecticut
Owner: Woodstock Tower Partners, LLP
Map/Block/Lot: 5789/37/24
Approximately 128 acres

The proposed facility consists of a 100’ by 100’ lease area located in the south-east portion of an approximately 128 acre parcel owned by Woodstock Tower Partners, LLP and located on Route 198. A new self-supporting monopole tower 150’ in height would be constructed. AT&T will install up to 12 panel antennas at the 147’ centerline height on the tower. The tower compound will consist of a 75' x 75' fenced area to accommodate AT&T's 12’ x 20’ radio equipment shelter and a 4' x 8' concrete pad for AT&T's emergency generator. An 8-foot high chain link fence would enclose the tower compound. The tower and compound are designed for future shared use by other carriers. Vehicle access to the facility will be provided by easement over the adjacent parcel located at 530 Route 198 from Route 198 (Black Pond Road) over an existing paved driveway a distance of approximately 425’, then along a new 12-foot wide gravel access drive that will be routed west and south on the subject parcel to the equipment compound a distance of approximately 4,275'. Electric and telephone utilities would be extended from a utility pole on the adjacent parcel and from there extend along the access drive to the proposed compound area.

Site Evaluation Report

I. LOCATION

A. COORDINATES: 41° 56’ 21.59” N 72° 4’ 54.60” W

B. GROUND ELEVATION: 795’ AMSL

C. USGS MAP: Woodstock

D. SITE ADDRESS: Route 198, Woodstock, Connecticut

E. ZONING WITHIN 1/4 MILE OF SITE: Residential and Agricultural (Community District)

II. DESCRIPTION

A. SITE SIZE: 100’ by 100’ lease area, 75’ by 75’ compound

B. LESSOR’S PARCEL: ± 128 acres

C. TOWER TYPE/HEIGHT: Monopole / 150’ AGL.

D. SITE TOPOGRAPHY AND SURFACE: The proposed site is located on an elevated knoll within a wooded and undeveloped portion of the property.

E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The topography of the area is mountainous terrain with a valley area to the east. A stream and associated wetland are located on the subject property. The subject property is not located within a 100-year floodplain.

F. LAND USE WITHIN 1/4 MILE OF SITE: Land uses within ¼ mile of the site are primarily large lot residential and agricultural.

III. FACILITIES

A. POWER COMPANY: CL&P

B. POWER PROXIMITY TO SITE: Facilities available from a utility pole on site.

C. TELEPHONE COMPANY: AT&T

D. PHONE SERVICE PROXIMITY: Same as power.

E. VEHICLE ACCESS TO SITE: Access to the facility would be provided from Black Pond Road (Route 198) by an easement over an adjacent parcel over an existing paved driveway a distance of approximately 425', then along a new 12-foot wide gravel access drive on the subject site that will be routed west and south a distance of approximately 4,275' to the equipment compound.

F. OBSTRUCTIONS: None

G. CLEARING AND FILL REQUIRED: The compound and access drive will require clearing and grading. Some filling may be required. Approximately 179 trees with a diameter of 6 inches or greater at breast height will be removed Detailed plans would be included in a Development and Management Plan ("D&M" plan) after any approval of the facility which may be issued by the Connecticut Siting Council.

IV. LEGAL

A. PURCHASE [ ] LEASE [X]

B. OWNER: Woodstock Tower Partners, LLP

C. ADDRESS: Route 198, Woodstock, Connecticut

Facilities and Equipment Specification

I. TOWER SPECIFICATIONS:

A. MANUFACTURER: To be determined

B. TYPE: Self-Supporting monopole

C. HEIGHT: 150’
DIMENSIONS: Approximately 4’ in diameter at the base, tapering to approximately 2’ at the top.

D. LIGHTING: None as set forth in attached Federal Aviation Administration (FAA) report

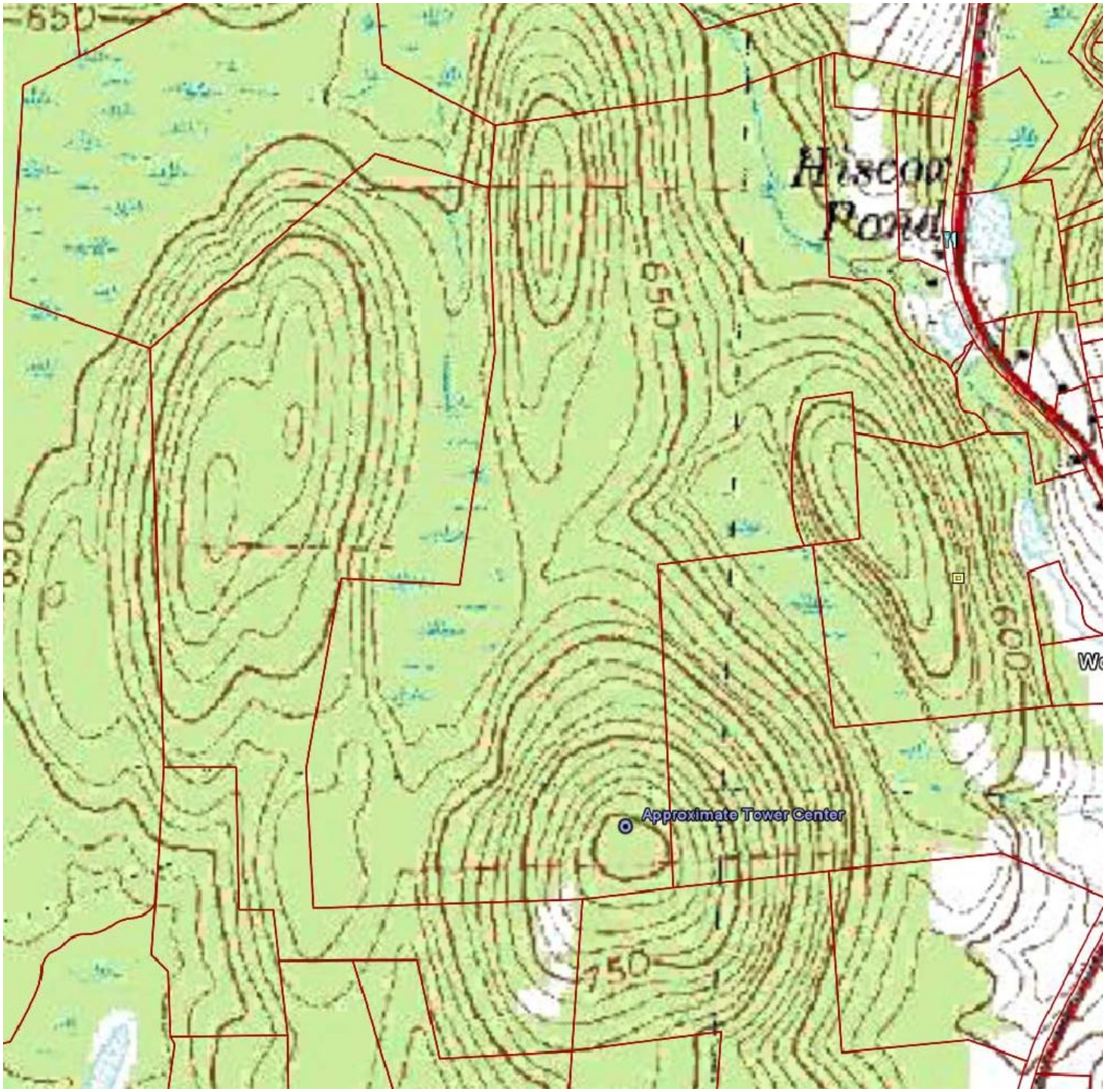
II. TOWER LOADING:

A. AT&T – up to 12 panel Antennas in addition to RRH and TMA units
   a. Antenna Model – Powerwave P65-15-XLH-RR or P90-14-XLH-RR or equivalent panel antenna
   b. Antenna Dimensions – 51”H x 12”W x 6”D / 48"H x 12"W x 6"D
   c. Position on Tower – 147’ centerline mounted on low profile platform
   d. Transmission Lines – MFG: Commscope; Size 1-5/8”

B. Future Carriers – To be determined

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The tower will be designed in accordance with American National Standards Institute TIA/EIA-222-F “Structural Standards for Steel Antenna Towers and Antenna Support Structures” and the 2003 International Building Code with 2005 Connecticut Amendment. The foundation design would be based on soil conditions at the site. The details of the tower and foundation design will be provided as part of the final D&M plan.



600' 300' 0 600'

1 TOPOGRAPHIC MAP

TOPOGRAPHY SHOWN BASED ON USGS MAP: "EASTFORD, CONN.; 41072-H1-TF-024; 1983; DMA 6567 I NE-SERIES V816"

APPROX. NORTH

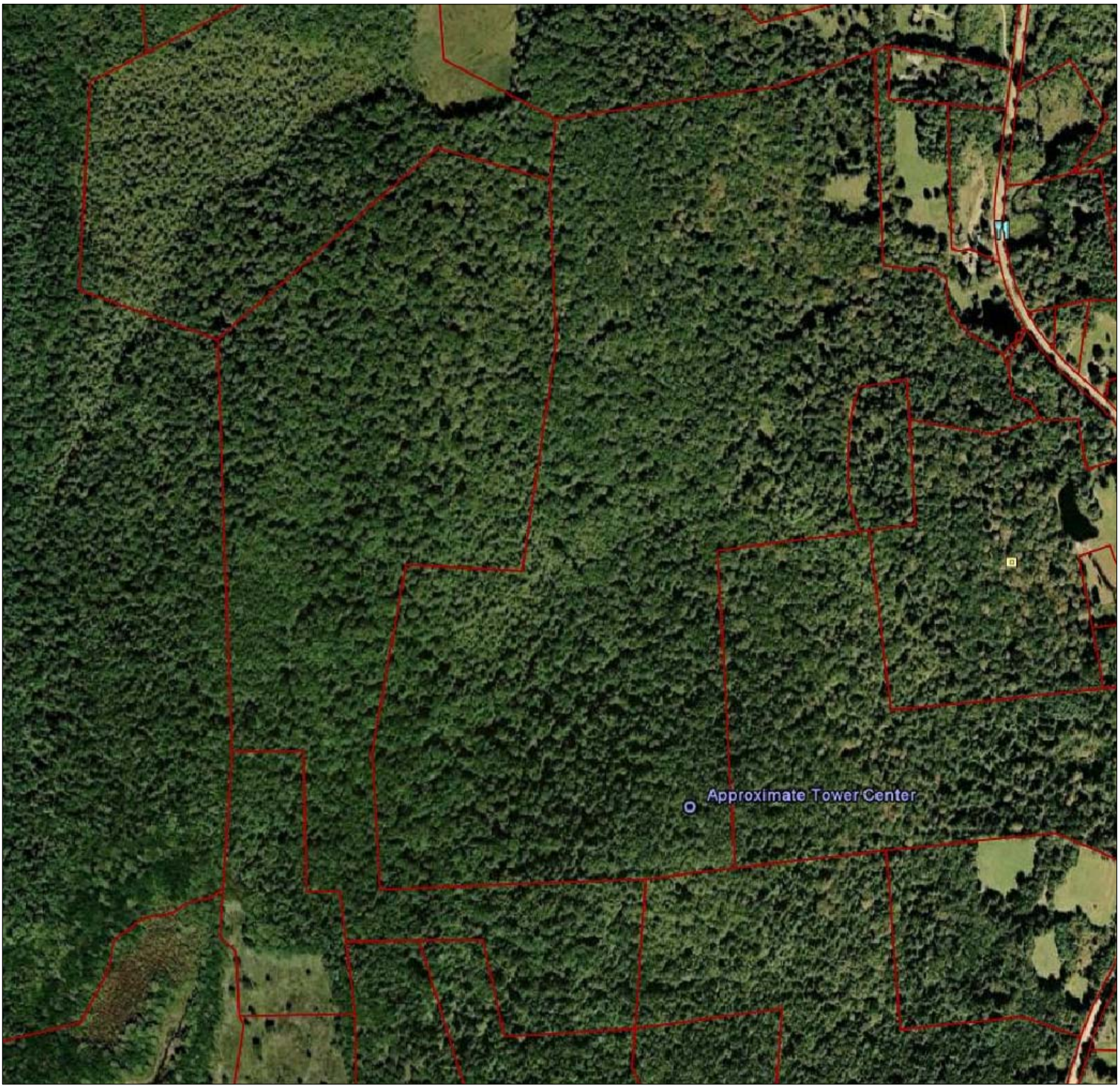
NORTH ATLANTIC TOWERS

infinigy engineering
11 Herbert Drive
Latham, NY 12110
OFFICE: (518) 690-0790
FAX: (518) 690-0793
INFINIGY PROJECT #: 226-064

USGS QUAD MAP – WOODSTOCK/CT1182

SITE NAME: WOODSTOCK
SITE I.D.: CT1182
SITE ADDRESS: ROUTE 198
WOODSTOCK, CT 06282

DRAWING SCALE: AS NOTED	DATE: 2/10/11	REV: 0



600' 300' 0 600'

1 AERIAL PHOTOGRAPH

AERIAL PHOTOGRAPH BASED ON GOOGLE EARTH IMAGE DATED 9/30/2006

N

APPROX. NORTH

NORTH ATLANTIC TOWERS

infinigy engineering
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Latham, NY 12110
OFFICE: (518) 690-0790
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INFINIGY PROJECT #: 226-064

AERIAL PHOTOGRAPH – WOODSTOCK/CT1182

SITE NAME: WOODSTOCK
SITE I.D.: CT1182
SITE ADDRESS: ROUTE 198
WOODSTOCK, CT 06282

DRAWING SCALE: AS NOTED	DATE: 2/10/11	REV: 0

PROJECT DESCRIPTION:

CONSTRUCTION OF PUBLIC UTILITY/PERSONAL WIRELESS SERVICE FACILITY CONSISTING OF A MONOPOLE TOWER, INITIALLY (1) EQUIPMENT SHELTER, AND A UTILITY BACKBOARD WITHIN A FENCED COMPOUND. NO WATER OR SEWER IS REQUIRED.

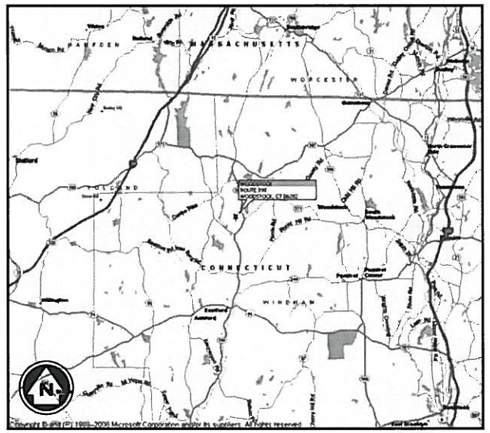
CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

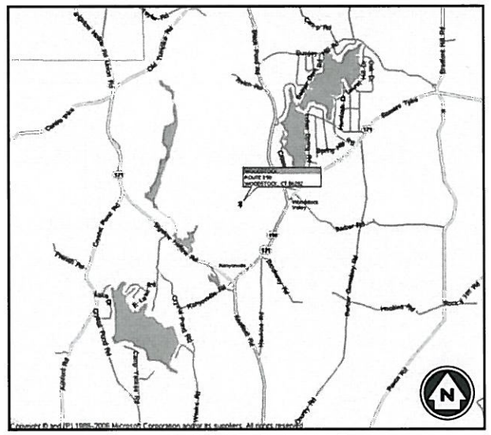
1. CT BUILDING CODE
2. UNIFORM BUILDING CODE
3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)
4. UNIFORM MECHANICAL CODE
5. ANSI/TIA/EIA-222-G
6. UNIFORM PLUMBING CODE
7. NATIONAL ELECTRICAL CODE
8. LOCAL BUILDING CODE
9. CITY/COUNTY ORDINANCES

NORTH ATLANTIC TOWERS

WOODSTOCK
SITE ID: CT1182
ROUTE 198
WOODSTOCK, CT 06282



VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

infinigy engineering

11 HERBERT DRIVE
LATHAM, NY 12110
OFFICE #: (518) 690-0790
FAX #: (518) 690-0793

PROPOSED TOWER HEIGHT: ±150' AGL
LATITUDE: 41° 56' 21.5982" N
LONGITUDE: 72° 4' 54.609" W
ELEVATION: ±795' AGL

DIG ALERT:
CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING:
1-800-922-4455
EMERGENCY:
CALL 911

WINDHAM COUNTY, CONNECTICUT

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24705
LICENSED PROFESSIONAL ENGINEER

PROJECT INFORMATION

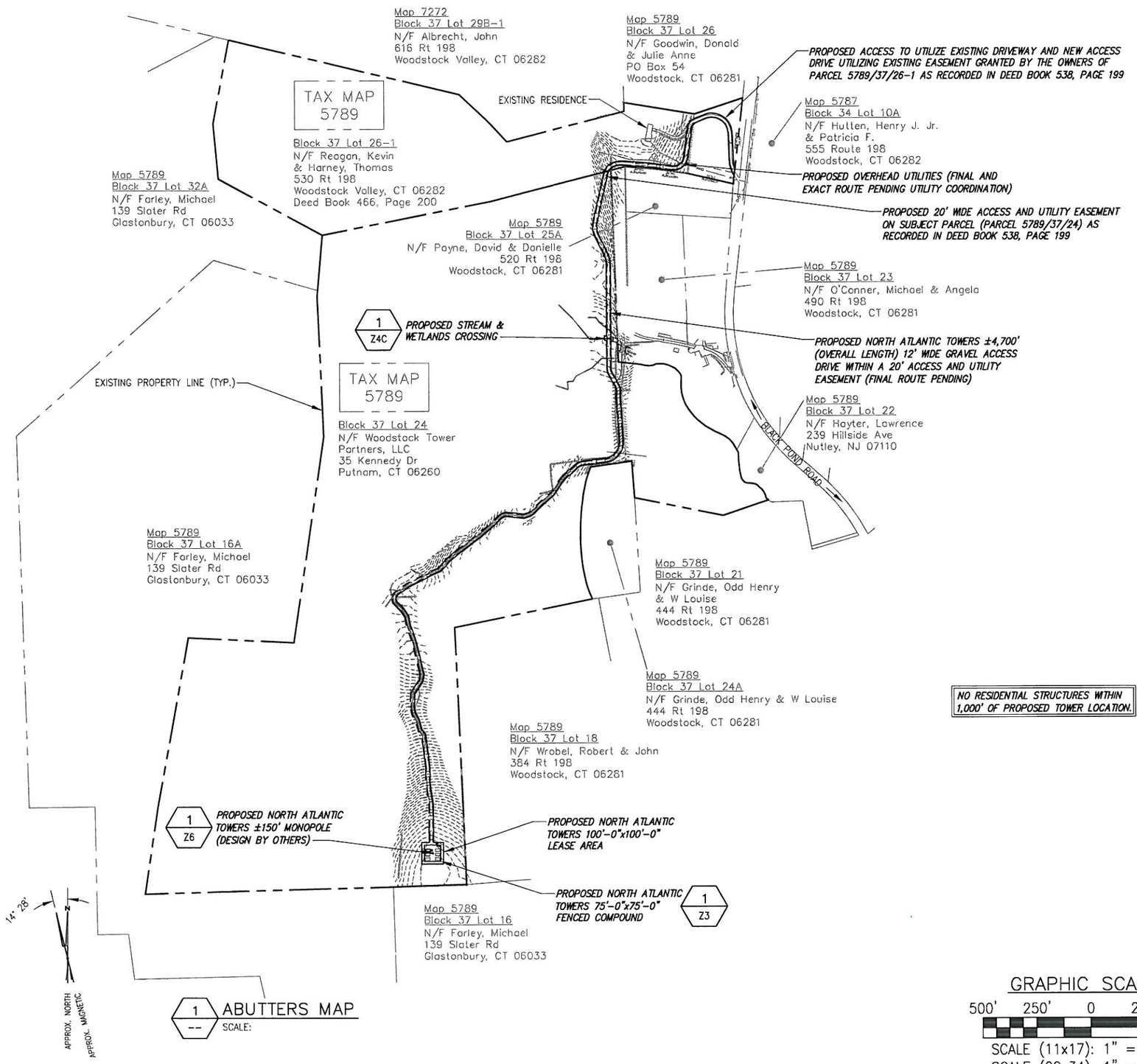
SITE NAME:	WOODSTOCK	
SITE ID:	CT1182	
SITE ADDRESS:	ROUTE 198 WOODSTOCK, CT 06282	
ZONING JURISDICTION:	TBD	
ZONING CLASSIFICATION:	TBD	
PARCEL I.D. (M/B/L/U):	LOT 24:	5789/37/24///
ACCOUNT NUMBER:	LOT 24:	F0132200
PARCEL SIZE:	LOT 24:	±128.00 ACRES
CONSTRUCTION AREA:	± 221,400 SQFT (±5.1 ACRES)	
LATITUDE: LONGITUDE:	41° 56' 21.5982" N 72° 04' 54.609" W	

PROJECT DIRECTORY

PROPERTY OWNER:	WOODSTOCK TOWER PARTNERS, LLC (860) 963-2133
APPLICANT:	NORTH ATLANTIC TOWERS 1001 3RD AVE WEST, SUITE 420 BRADENTON, FL 34205 JOHN STEVENS (941) 757-5010
ENGINEER:	INFINIGY ENGINEERING PLLC 11 HERBERT DRIVE LATHAM, NY 12110 KEN CURLEY (518) 690-0790
ATTORNEY:	CUDDY & FEDER LLP 445 HAMILTON STREET, 14TH FLOOR WHITE PLAINS, NY 10601 LUCIA CHIOCCHIO, ESQ (914) 761-1300
POWER COMPANY:	TBD
TELCO COMPANY:	TBD

DRAWING INDEX

DRWG. #	TITLE	REV.#	DATE
T1	TITLE SHEET	6	10/11/2011
Z1	ABUTTERS MAP	6	10/11/2011
Z2	OVERALL SITE PLAN	6	10/11/2011
Z3	ENLARGED SITE PLAN	6	10/11/2011
Z4	GRADING PLAN	6	10/11/2011
Z4A	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4B	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4C	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4D	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4E	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4F	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4G	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4H	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z4I	ACCESS ROAD GRADING PLAN	6	10/11/2011
Z5	GRADING NOTES & DETAILS	6	10/11/2011
Z6	ELEVATION VIEW	6	10/11/2011
Z7	DETAILS	6	10/11/2011
Z8	E&SC DETAILS	6	10/11/2011
Z9	SWM DETAILS	6	10/11/2011



BASEMAPPING PREPARED FROM INFORMATION OBTAINED AT A SITE WALK BY INFINIGY ENGINEERING ON 06/09/10, AND INFORMATION PROVIDED BY NORTH ATLANTIC TOWERS AND AN ACTUAL FIELD SURVEY BY VS LAND DATA WAS DONE ON 9/20/10.

infinigy engineering
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Latham, NY 12110
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STATE OF CONNECTICUT
JOHN C. STEVENS
LICENSED
No. 24705
PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
6	REVISED PER COMMENTS	AJD	10/11/11
5	REVISED PER COMMENTS	EKM	9/27/11
4	REVISED PER COMMENTS	EKM	9/23/11
3	ADDED E&SC and SWM	JWC	9/19/11
2	REVISED PER COMMENTS	AJD	5/23/11
1	REVISED PER COMMENTS	MER	3/11/11
0	ISSUED FOR REVIEW	BPM	1/19/11

Drawn: BPM Date: 3/11/11
Designed: AJD Date: 3/11/11
Checked: AJD Date: 3/11/11

Project Number
226-064

Project Title
WOODSTOCK
CT1182

ROUTE 198
WOODSTOCK, CT 06281

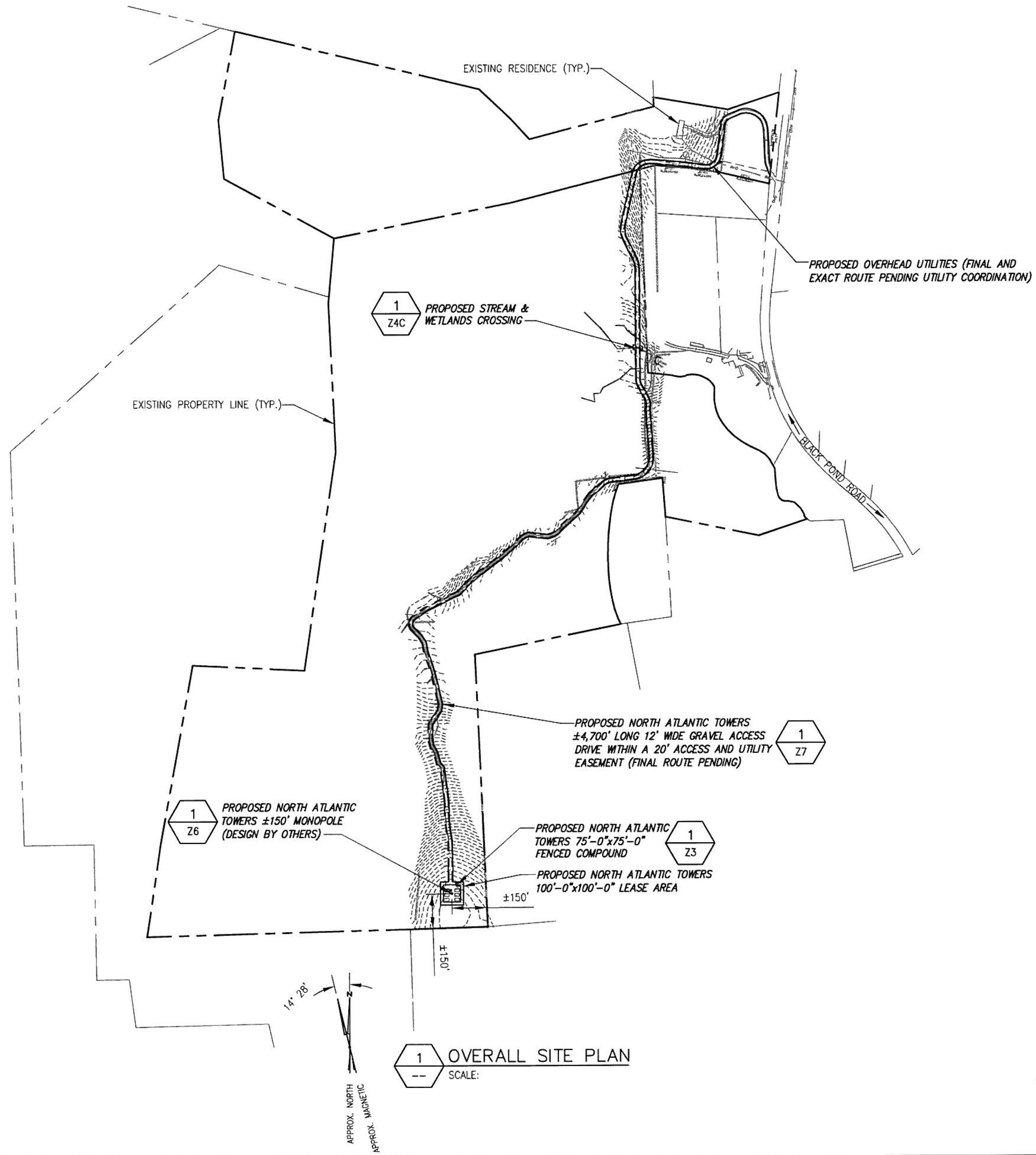
Prepared For
NORTH ATLANTIC TOWERS

Drawing Scale:
AS NOTED

Date:
9/27/11

Drawing Title
ABUTTERS MAP

Drawing Number
Z1



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1 OVERALL SITE PLAN

-- SCALE:

GRAPHIC SCALE

500' 250' 0 250' 500'

SCALE (11x17): 1" = 500'-0"
SCALE (22x34): 1" = 250'-0"

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STATE OF CONNECTICUT ★ JOHN S. STEVENS ★ No. 24705 LICENSED PROFESSIONAL ENGINEER

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Project Number 226-064

Project Title

WOODSTOCK
CT1182

ROUTE 198
WOODSTOCK, CT 06281

Prepared For

NORTH ATLANTIC TOWERS

Drawing Scale: AS NOTED

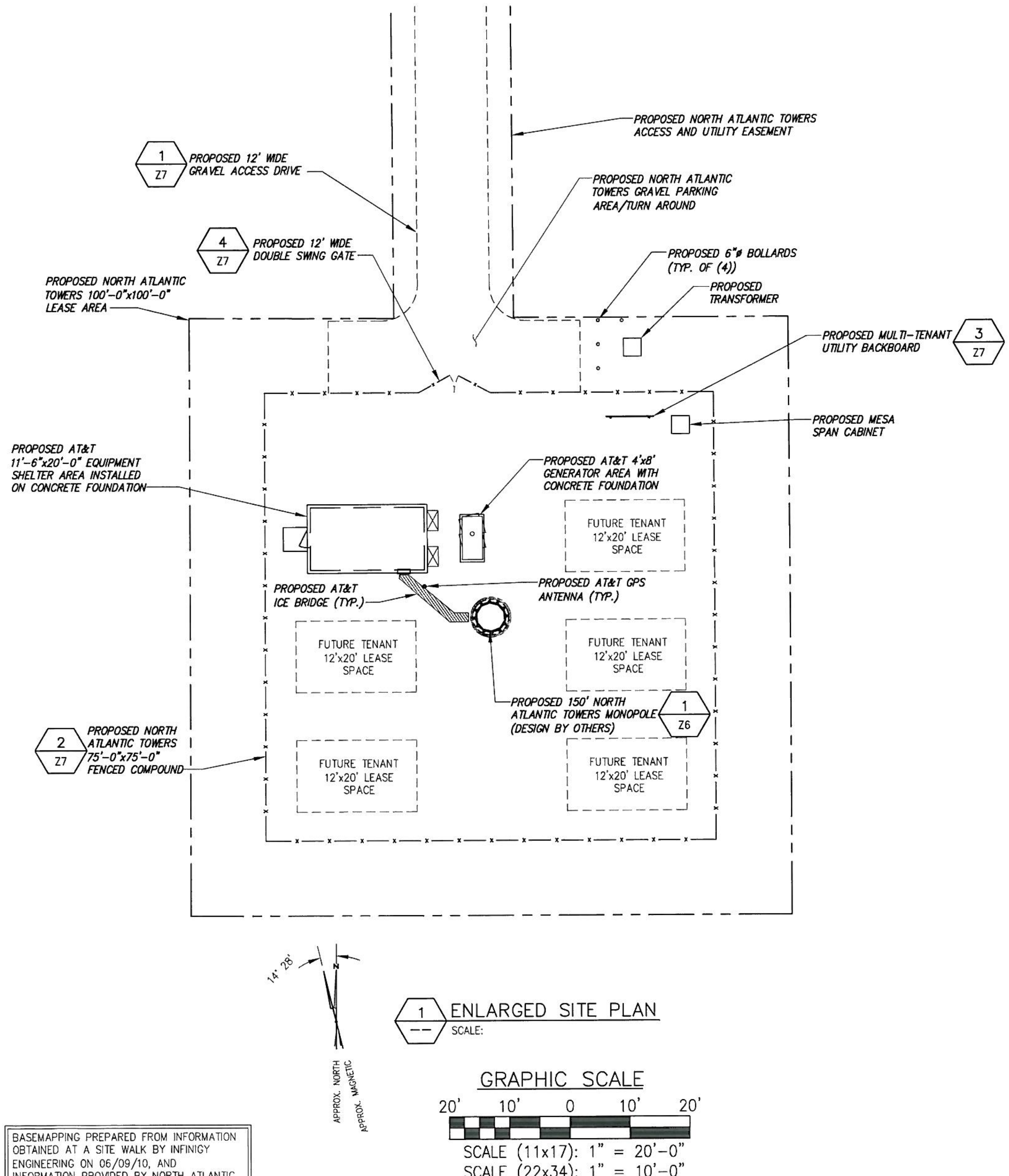
Date: 9/27/11

Drawing Title

OVERALL SITE PLAN

Drawing Number

Z2



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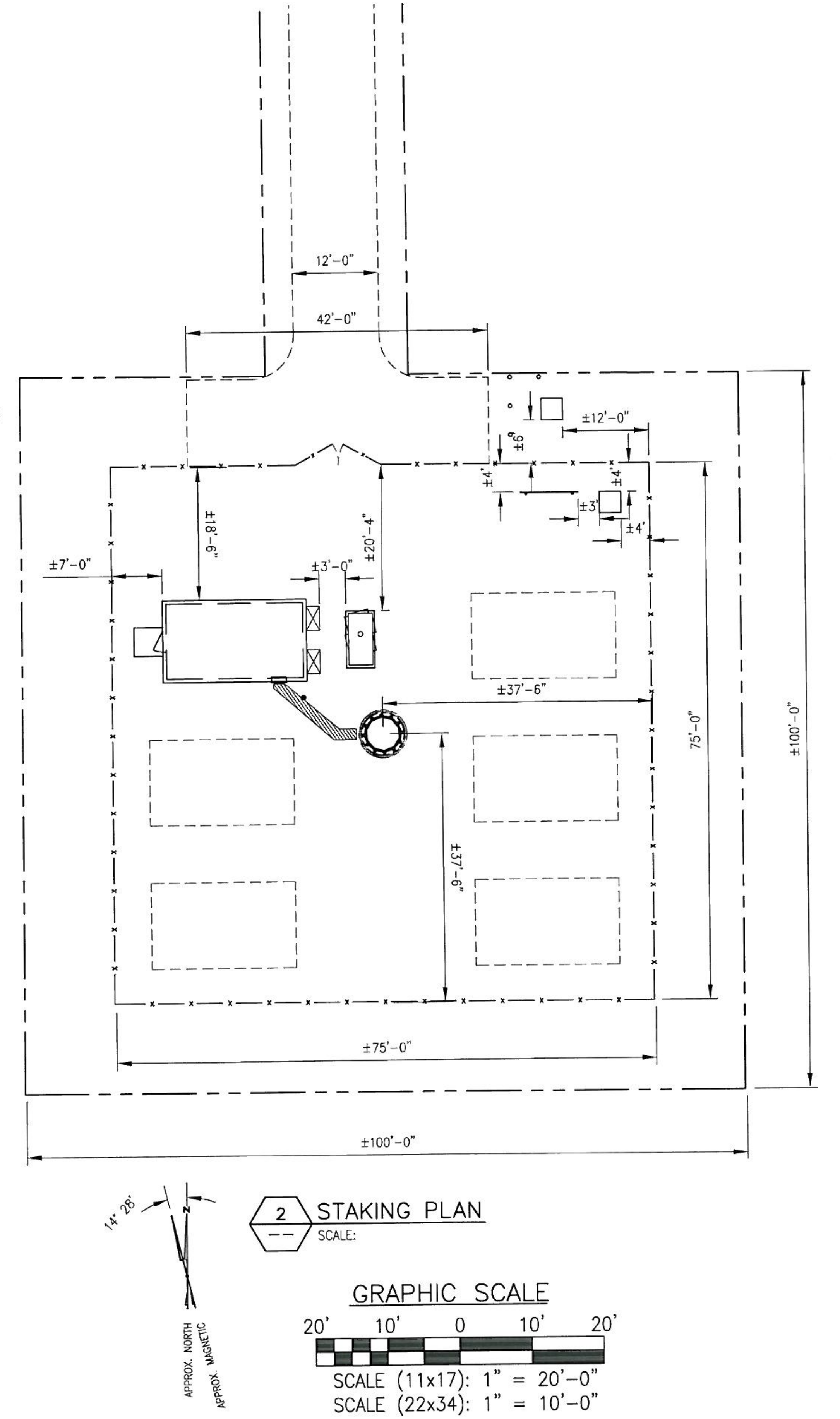

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STATE OF CONNECTICUT JOHN S. STEVENS No. 24705 LICENSED PROFESSIONAL ENGINEER

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Project Number 226-064

Project Title

WOODSTOCK
CT1182

ROUTE 198
WOODSTOCK, CT 06281

Prepared For

NORTH ATLANTIC TOWERS

Drawing Scale: AS NOTED

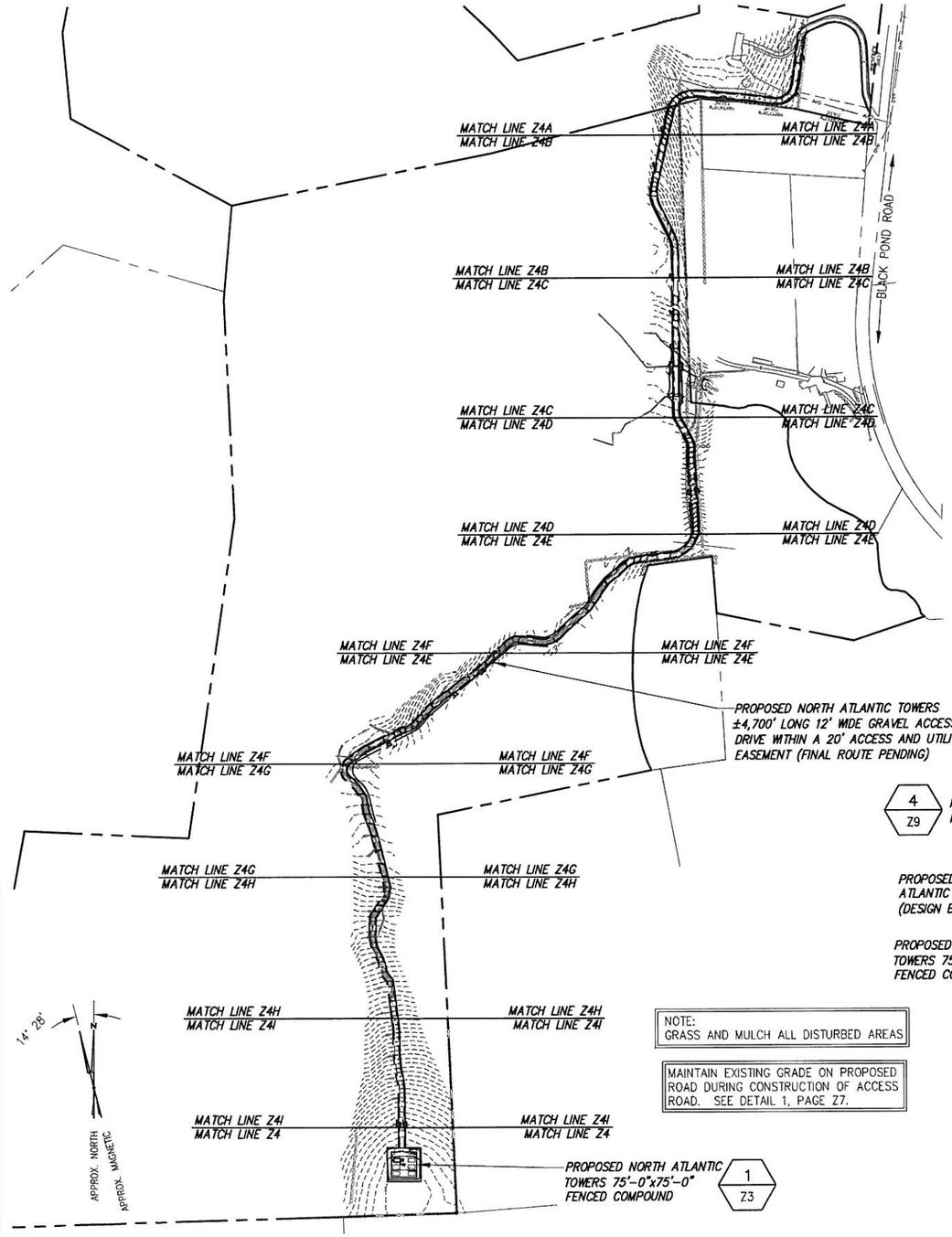
Date: 9/27/11

Drawing Title

ENLARGED SITE PLAN

Drawing Number

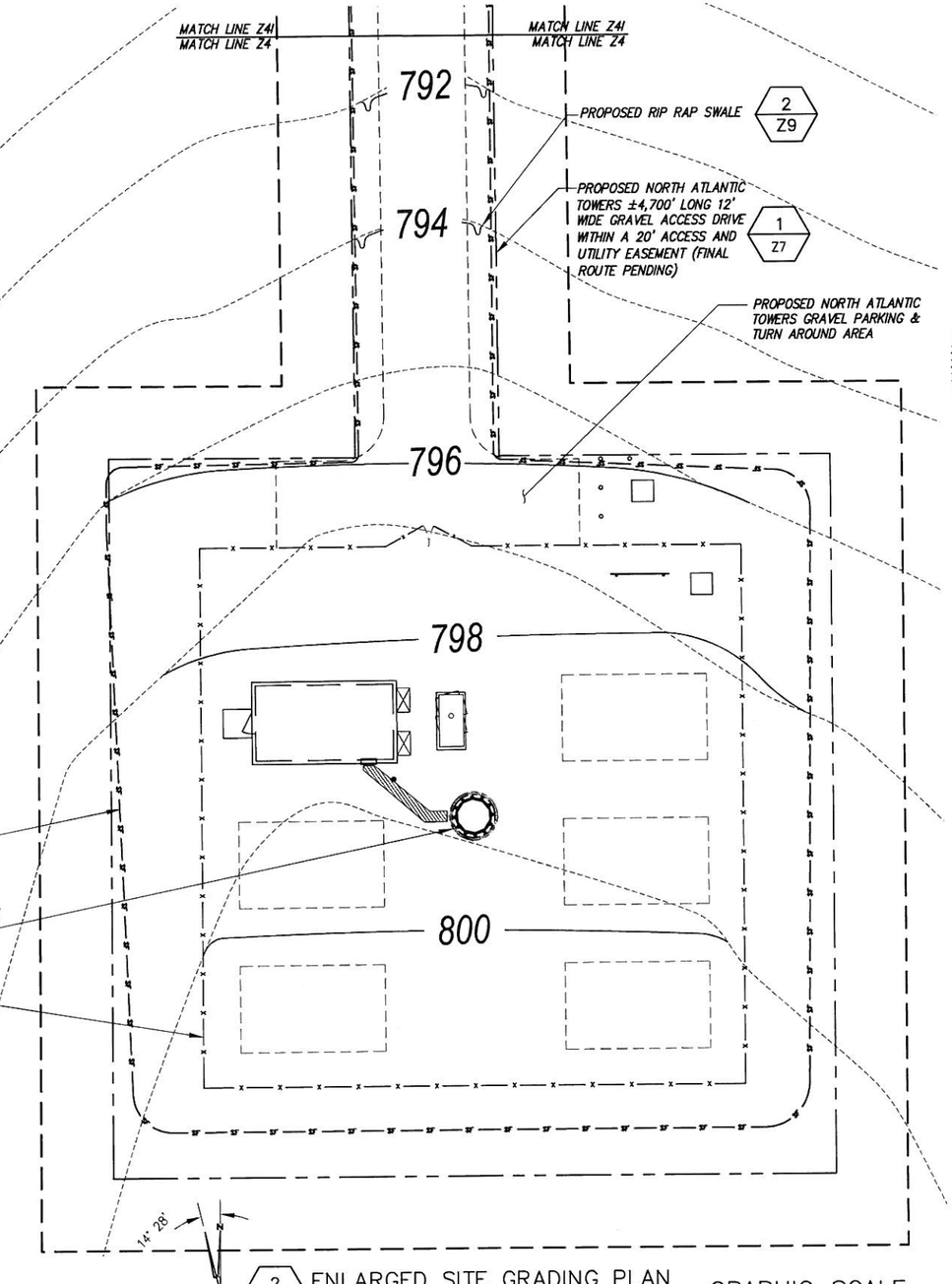
Z3



1 -- OVERALL GRADING PLAN
SCALE:

GRAPHIC SCALE
400' 200' 0 200' 400'
SCALE (11x17): 1" = 400'-0"
SCALE (22x34): 1" = 200'-0"

BASEMAPPING PREPARED FROM INFORMATION OBTAINED AT A SITE WALK BY INFINIGY ENGINEERING ON 06/09/10, AND INFORMATION PROVIDED BY NORTH ATLANTIC TOWERS AND AN ACTUAL FIELD SURVEY BY VS LAND DATA WAS DONE ON 9/20/10.



2 -- ENLARGED SITE GRADING PLAN
SCALE:

GRAPHIC SCALE
20' 10' 0 10' 20'
SCALE (11x17): 1" = 20'-0"
SCALE (22x34): 1" = 10'-0"

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STATE OF CONNECTICUT
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1	REVISED PER COMMENTS	MCR	3/11/11
0	ISSUED FOR REVIEW	BPM	1/19/11

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226-064

Project Title
WOODSTOCK
CT1182

ROUTE 198
WOODSTOCK, CT 06281

Prepared For
NORTH ATLANTIC TOWERS

Drawing Scale:
AS NOTED
Date:
9/27/11

Drawing Title
GRADING PLAN

Drawing Number
Z4

PROPOSED ACCESS TO UTILIZE EXISTING DRIVEWAY AND NEW ACCESS DRIVE UTILIZING EXISTING EASEMENT GRANTED BY THE OWNERS OF PARCEL 5789/37/26-1 AS RECORDED IN DEED BOOK 538, PAGE 199

EXISTING RESIDENCE

EXISTING GRAVEL DRIVEWAY

PROPOSED LIMITS OF DISTURBANCE

PROPOSED NORTH ATLANTIC TOWERS ±4,700' (OVERALL LENGTH) 12' WIDE GRAVEL ACCESS DRIVE WITHIN A 20' ACCESS AND UTILITY EASEMENT (FINAL ROUTE PENDING) — 1 / Z7

EXISTING STONE WALL (TYP.)

PROPOSED SILT FENCE (TYP.) — 4 / Z9

PROPOSED STONE BERM LEVEL SPREADER – BMP — 3 / Z9

EXISTING PAVED DRIVEWAY

50' UTILITY EASEMENT TO CONNECTICUT LIGHT & POWER CO.

APPROXIMATE LOCATION OF EXISTING SEPTIC SYSTEM

PROPOSED OVERHEAD UTILITIES (FINAL AND EXACT ROUTE PENDING UTILITY COORDINATION)

EXISTING OVERHEAD WIRES

EXISTING UTILITY POLE TO BE REMOVED

PROPOSED UTILITY POLE

PROPOSED STONE BERM LEVEL SPREADER – BMP — 3 / Z9

EXISTING PROPERTY LINE (TYP.)

PROPOSED 20' WIDE ACCESS AND UTILITY EASEMENT ON SUBJECT PARCEL (PARCEL 5789/37/24) AS RECORDED IN DEED BOOK 538, PAGE 199

MATCH LINE Z4A
MATCH LINE Z4B

MATCH LINE Z4A
MATCH LINE Z4B

14° 28'

APPROX. NORTH
APPROX. MAGNETIC

1 / -- SECTIONED GRADING PLAN
SCALE:

GRAPHIC SCALE

50' 25' 0 25' 50'

SCALE (11x17): 1" = 50'-0"
SCALE (22x34): 1" = 25'-0"

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NOTE:
GRASS AND MULCH ALL DISTURBED AREAS

MAINTAIN EXISTING GRADE ON PROPOSED ROAD DURING CONSTRUCTION OF ACCESS ROAD. SEE DETAIL 1, PAGE Z7.

infinigy engineering
11 Herbert Drive
Latham, NY 12110
OFFICE: (518) 690-0790
FAX: (518) 690-0793

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24705
LICENSED PROFESSIONAL ENGINEER

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Project Number
226-064

Project Title
WOODSTOCK
CT1182

ROUTE 198
WOODSTOCK, CT 06281

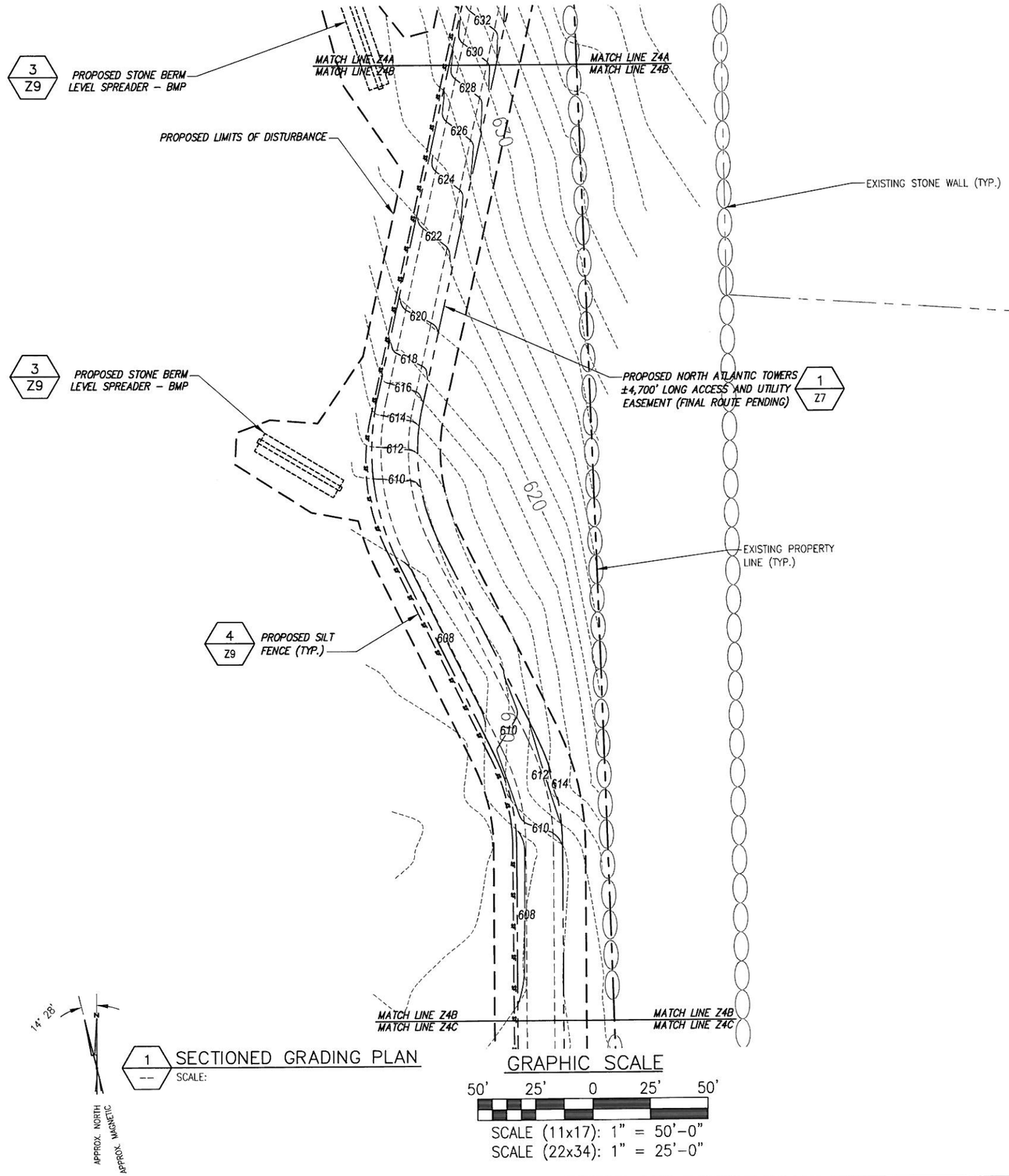
Prepared For
NORTH ATLANTIC TOWERS

Drawing Scale:
AS NOTED

Date:
9/27/11

Drawing Title
ACCESS ROAD GRADING PLAN

Drawing Number
Z4A



1 SECTIONED GRADING PLAN
SCALE:

GRAPHIC SCALE
50' 25' 0 25' 50'
SCALE (11x17): 1" = 50'-0"
SCALE (22x34): 1" = 25'-0"

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NOTE:
GRASS AND MULCH ALL DISTURBED AREAS

MAINTAIN EXISTING GRADE ON PROPOSED ROAD DURING CONSTRUCTION OF ACCESS ROAD. SEE DETAIL 1, PAGE Z7.

infinigy engineering
11 Herbert Drive
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STATE OF CONNECTICUT
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WOODSTOCK, CT 06281

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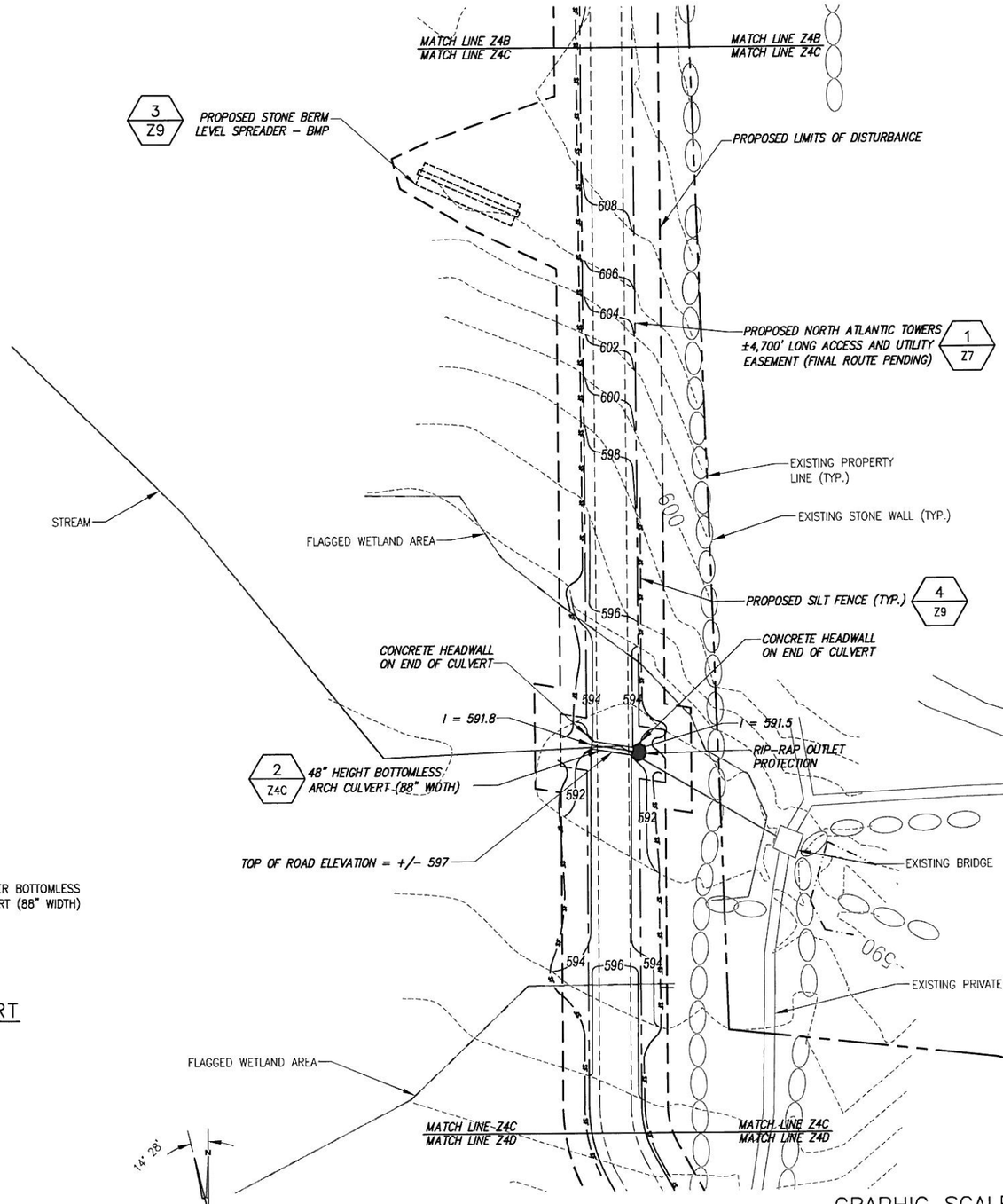
NORTH ATLANTIC TOWERS

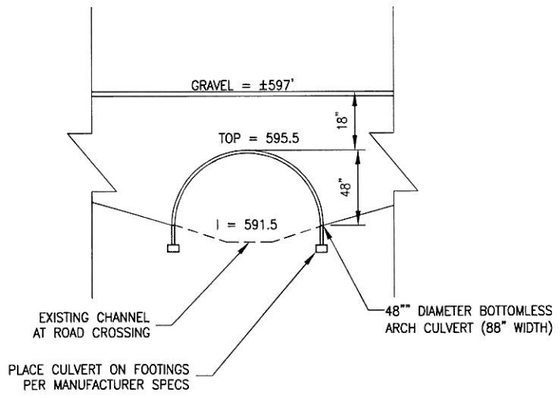
Drawing Scale:
AS NOTED

Date:
9/27/11

Drawing Title
ACCESS ROAD GRADING PLAN

Drawing Number
Z4B





2 -- 48" BOTTOMLESS ARCH CULVERT
NOT TO SCALE

NOTE:
CONTRACTOR TO DISTURB LESS THAN
5,000 SQUARE FEET OF WETLANDS AREA

1 -- SECTIONED GRADING PLAN
SCALE:

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SCALE (22x34): 1" = 25'-0"

NOTE:
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MAINTAIN EXISTING GRADE ON PROPOSED ROAD DURING CONSTRUCTION OF ACCESS ROAD. SEE DETAIL 1, PAGE Z7.

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STATE OF CONNECTICUT
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No. 24705
LICENSED PROFESSIONAL ENGINEER

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1	REVISED PER COMMENTS	MCR	3/11/11
0	ISSUED FOR REVIEW	BPM	1/19/11

Drawn: BPM Date: 3/11/11
Designed: AJD Date: 3/11/11
Checked: AJD Date: 3/11/11

Project Number
226-064

Project Title
WOODSTOCK
CT1182

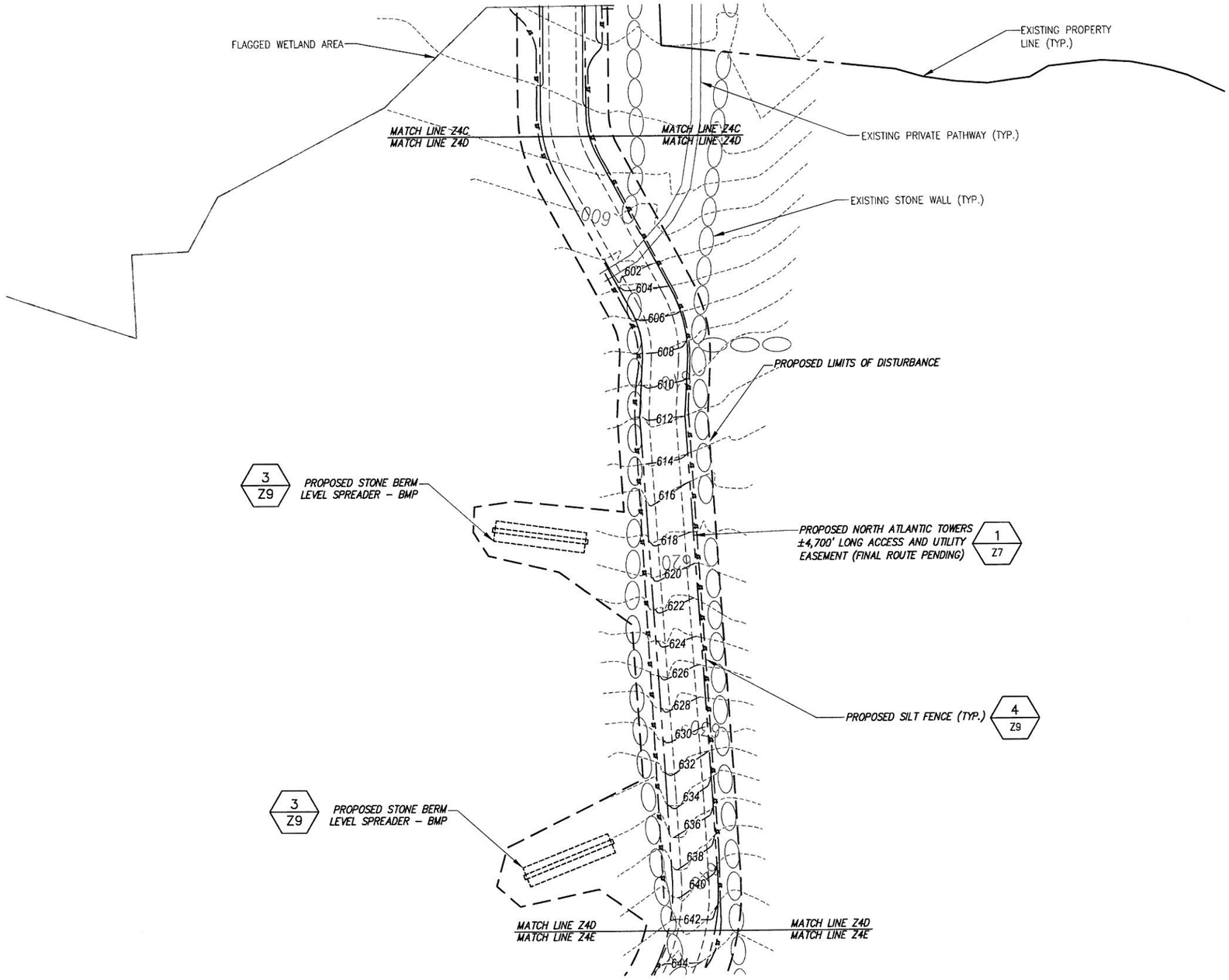
ROUTE 198
WOODSTOCK, CT 06281

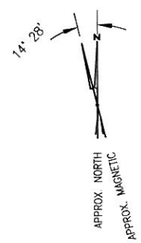
Prepared For
NORTH ATLANTIC TOWERS

Drawing Scale:
AS NOTED
Date:
9/27/11

Drawing Title
ACCESS ROAD GRADING PLAN

Drawing Number
Z4C





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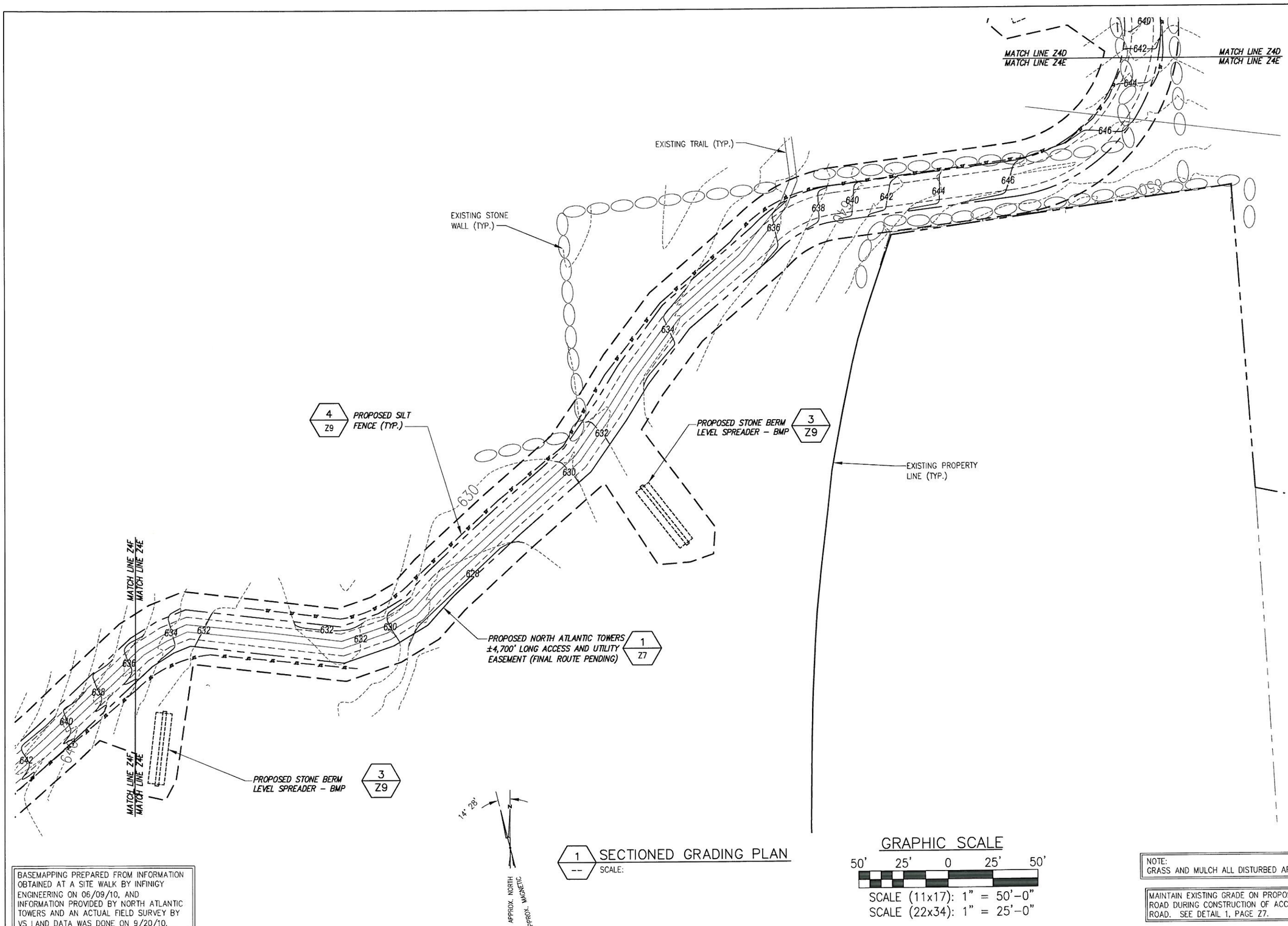

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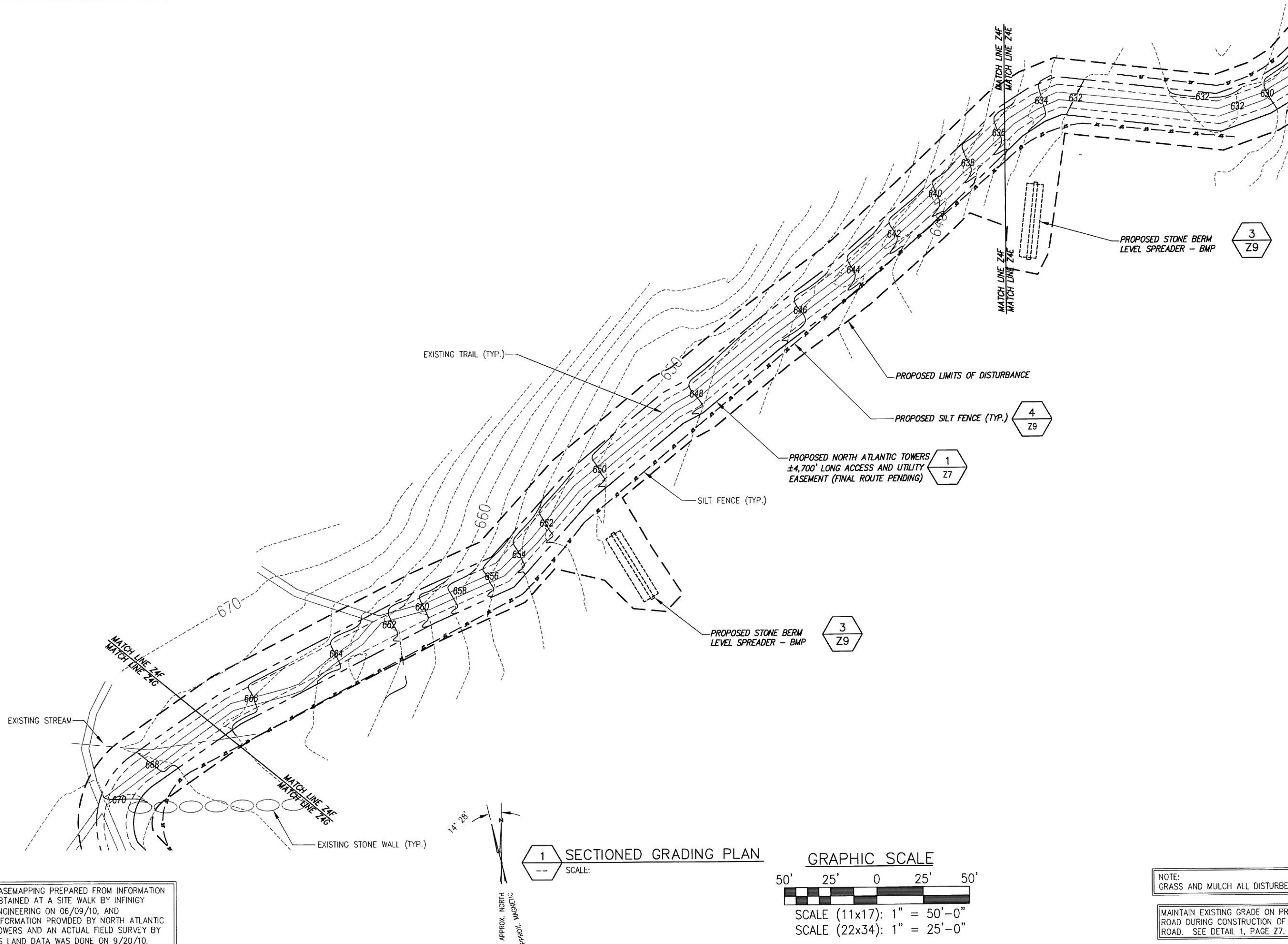

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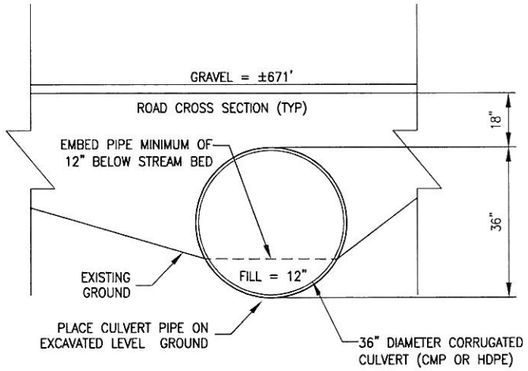
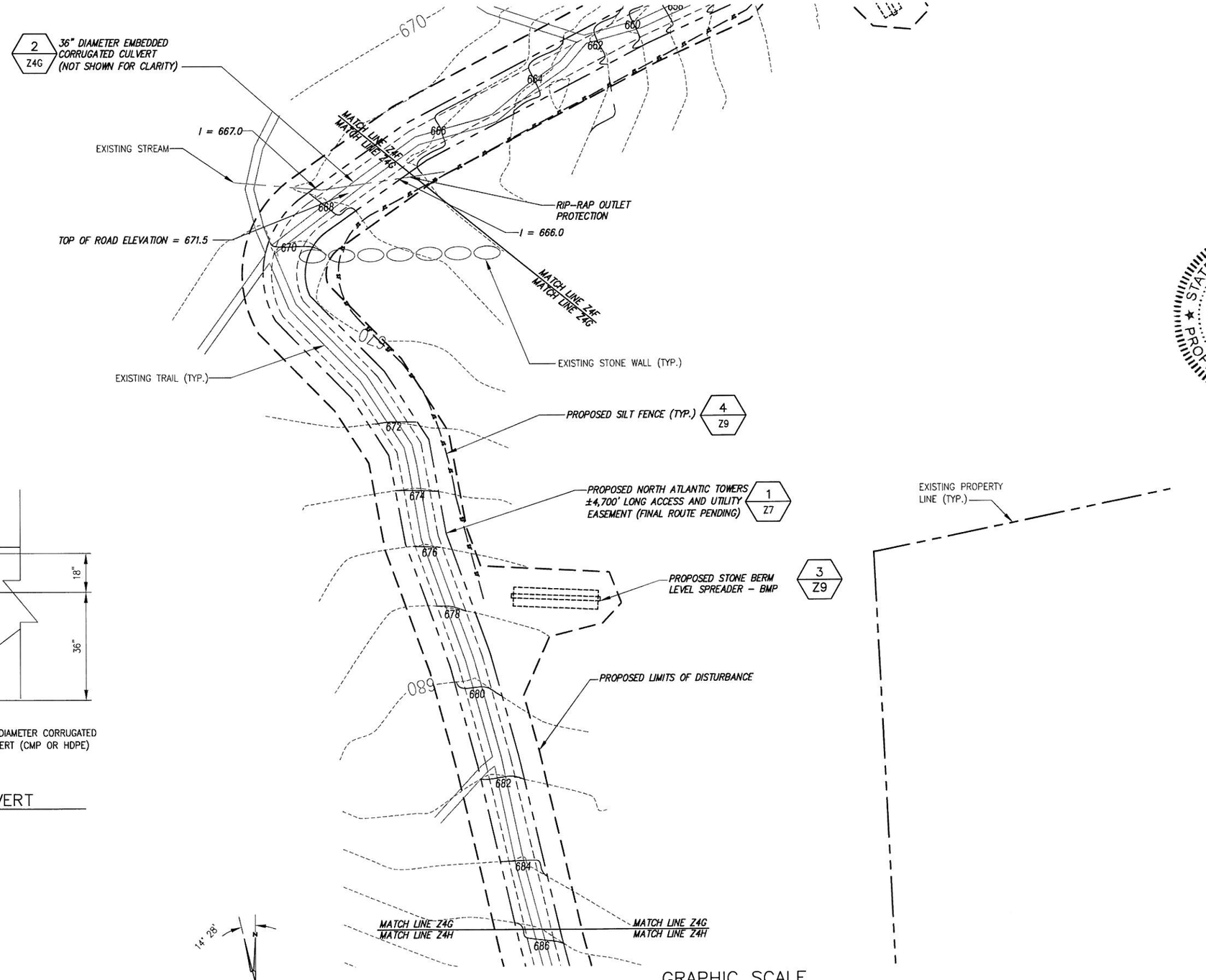


2 / -- 36" CORRUGATED CULVERT
NOT TO SCALE



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MODIFICATION, ALTERATION, ADDITION TO THIS PLAN SET IS A VIOLATION OF STATE AND LOCAL LAWS

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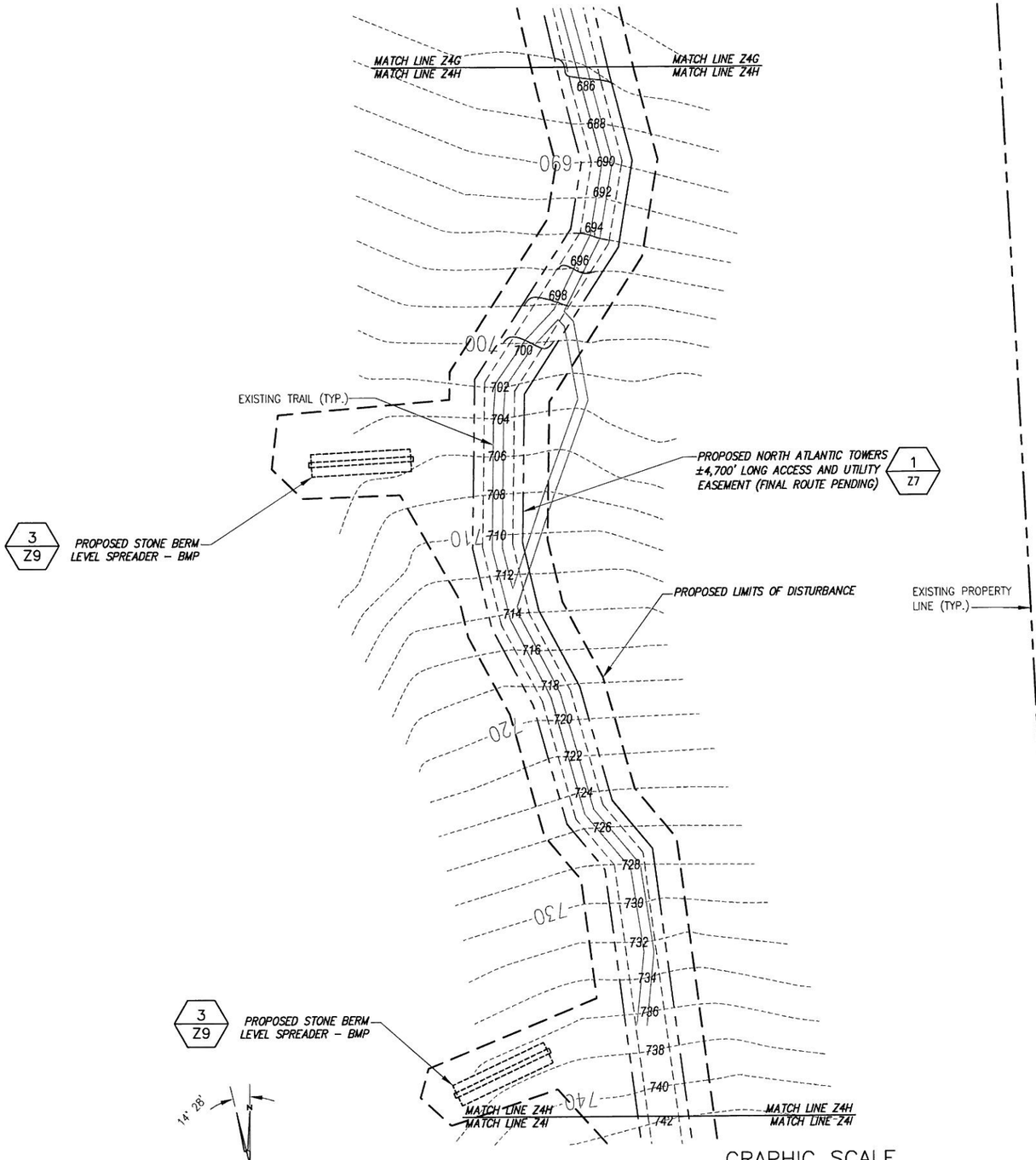

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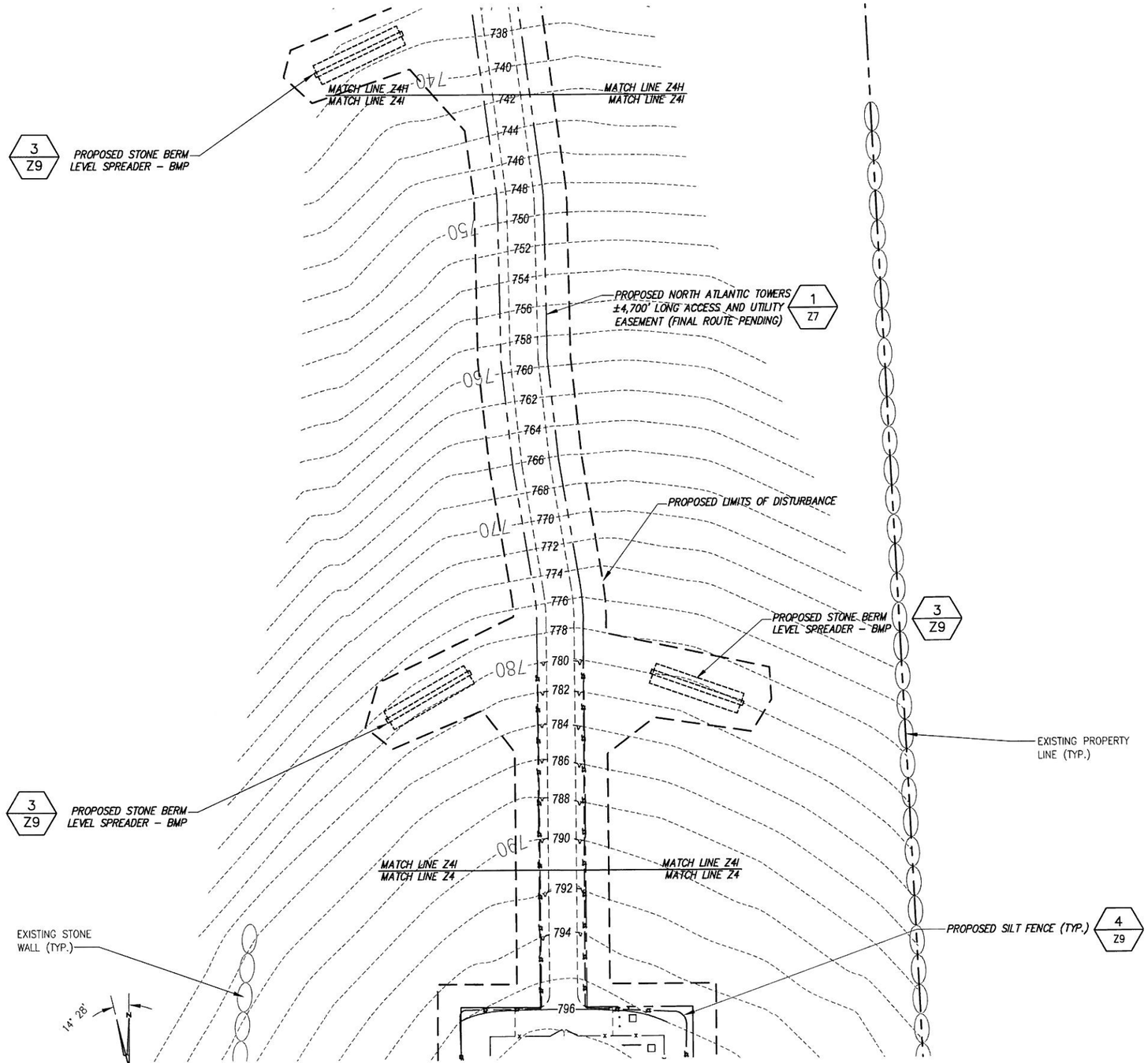

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ACCESS ROAD GRADING PLAN

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Z4I

GRADING & EXCAVATING NOTES:

1. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
2. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
3. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
4. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
5. –USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND
   –BE FREE FROM CLODS OR STONES OVER 2–1/2" MAXIMUM DIMENSIONS
   –BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR
6. REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE–CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
7. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
8. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
9. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
11. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
12. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SITE VEHICLE TRAFFIC AS TO NOT ALLOW VEHICLES LEAVING THE SITE TO TRACK MUD ONTO PUBLIC STREETS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING PUBLIC STREETS DUE TO MUDDY VEHICLES LEAVING THE SITE.

MULCH APPLICATION RATES				
MATERIAL	RATE / ACRE	DEPTH	COVERAGE	ANCHORING
HAY/STRAW	90–100 BALES	4" (WINTER)	90% SURFACE	*HYDROMULCH
WOOD CHIPS	10–20 TONS	2" TO 6"	90% SURFACE	NOT NEEDED
COMPOST	150–450 CYDS	2" TO 4"	100% SURFACE	NOT NEEDED
HYDROMULCH	2,000 LBS	1/4" TO 1/2"	100% SURFACE	**TACKIFIER

NOTES:

* HYDROMULCH ANCHORING HAY/STRAW MUST BE APPLIED AT 80 – 100 LBS PER ACRE

** ADD TACKIFIER PER MANUFACTURER RECOMMENDATIONS IF NOT INCLUDED IN HYDROMULCH

GENERAL EROSION & SEDIMENT CONTROL NOTES:

1. THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND DETAILS AS SHOWN HERIN AND STIPULATED WITHIN STATE STANDARDS SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
2. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
5. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR THE LOCAL JURISDICTION INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
6. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
7. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
8. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
9. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
10. CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
11. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND–DISTURBING ACTIVITIES.

STONE BERM LEVEL SPREADER NOTES

LEVEL SPREADER DIMENSIONS:
LEVEL SPREADER TROUGH MINIMUM DIMENSIONS = 30' LENGTH, 4' WIDTH, 2' HEIGHT

LEVEL SPREADER SEQUENCING:
1. LEVEL SPREADERS TO BE CONSTRUCTED IMMEDIATEDLY AFTER CLEARING/GRUBBING FOR THE ROADWAY AND PRIOR TO INITIATION OF ANY LAND GRADING ACTIVITIES
2. LEVEL SPREADERS TO FUNCTION AS SEDIMENT DEVICES PRIOR TO INSTALLATION OF GRAVEL ROAD, AFTER WHICH THEY MUST BE CLEANED OF ACCUMULATED SEDIMENT AND RESTORED TO THEIR ORIGINAL DESIGN VOLUMES THEN IMMEDIATELY STABILIZED

OPERATION AND MAINTENANCE REQUIREMENTS:
1. STORAGE AREA OF LEVEL SPREADERS TO BE INSPECTED ON AN BI–ANNUAL BASIS
2. ACCUMULATED SEDIMENTS TO BE REMOVED TO RESTORE ORIGINAL DESIGN DIMENSION
3. DISPOSAL OF SEDIMENTS MUST BE IN AN AREA AWAY FOR CONCENTRATED FLOWS
4. DISTURBED SOILS MUST BE IMMEDIATELY STABILIZED WITH GRASS SEED AND MULCH

PROTECTED FORESTED BUFFER NOTES

OPERATION AND MAINTENANCE:
1. REMOVAL OF VEGETATION IN FORESTED BUFFERS BELOW LEVEL SPREADERS IS TO BE PROHIBITED FOR THE DURATION OF THE CURRENT AND FUTURE LEASE PERIODS
2. BUFFER AREAS ARE TO BE INSPECTED ANNUALLY FOR EVIDENCE OF CHANNELIZATION OR SOIL EROSION BY RUNOFF ORIGINATING FROM THE LEVEL SPREADERS AND FOR REMOVAL OF VEGETATION IN THE DESIGNATED BUFFER AREAS ON THE SITE PLANS

			VEGETATIVE SCHEDULE		
			SPECIES	RATE/1000 S.F.	DATE
TALL FESCUE GRASS				1.0#	APRIL 1 – OCTOBER 15
SERICEA LESPEDEZA SEED BEARING HAY WITH OVERSEEDING WEEPING LOVEGRASS				140# 0.2#	OCTOBER 1 – MARCH 15 MARCH 15 – MAY 1
FERTILIZER MIX					
APPLICATION	N, #/ACRE		P_2O_5, #/ACRE	K_2O, #/ACRE	N, TOP DRESSING
1st	60 – 90		120 – 180	120 – 180	50
2nd	60		120	120	–

NOTE:
– GRASS AND MULCH ALL DISTURBED AREAS WITHIN SEVEN(7) DAYS OF FINAL GRADING

HYDRAULIC SEEDING EQUIPMENT

WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER–TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING, THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED.

CONVENTIONAL SEEDING EQUIPMENT

GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER–SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEADING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER–TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL.

PROJECTS WITH CT CONSTRUCTION STORMWATER GENERAL PERMIT COVERAGE

CONSTRUCTION SEQUENCE/EROSION CONTROL NOTES

ALL PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO INITIATING EARTH MOVING OPERATIONS.
ALL SWALES SHALL BE INSTALLED EARLY IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING).
ALL DITCHES, LEVEL SPREADERS, AND SWALES SHALL BE STABILIZED PRIOR TO RECEIVING RUNOFF.
ALL ROADS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
ALL CUT OR FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 24 HOURS OF ACHIEVING FINISHED GRADE.
ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL.

LIMITS ON SIZE OF ALLOWABLE DISTURBED AREA:

THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE PREVIOUSLY DISTURBED AREAS HAVE BEEN STABILIZED.

DEFINITION OF STABLE:

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- BASE COURSE OF GRAVEL HAS BEEN INSTALLED IN AREAS TO BE PAVED OR TO BE GRAVEL ROADS.
- A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED AND MAINTAINED.
- A MINIMUM OF 3 INCHES OF NON–EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED.
- OR, ROLLED EROSION CONTROL PRODUCTS (RECPs) HAVE BEEN PROPERLY INSTALLED.

TIME LIMIT OF EXPOSED SOIL:

ALL AREAS IN THE PROPOSED PROJECT SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.

STANDARD WINTER NOTES (WHEN APPLICABLE):

ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15, INCOMPLETE ROADWAYS, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

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STATE OF CONNECTICUT
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LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
6	REVISED PER COMMENTS	AJD	10/31/11
5	REVISED PER COMMENTS	EKM	9/27/11
4	REVISED PER COMMENTS	EKM	9/23/11
3	ADDED E&SC and SWM	JWC	9/19/11
2	REVISED PER COMMENTS	AJD	5/23/11
1	REVISED PER COMMENTS	MER	3/11/11
0	ISSUED FOR REVIEW	BPM	1/18/11

Drawn: BPM Date: 3/11/11
Designed: AJD Date: 3/11/11
Checked: AJD Date: 3/11/11

Project Number
226-064

Project Title
WOODSTOCK
CT1182

ROUTE 198
WOODSTOCK, CT 06281

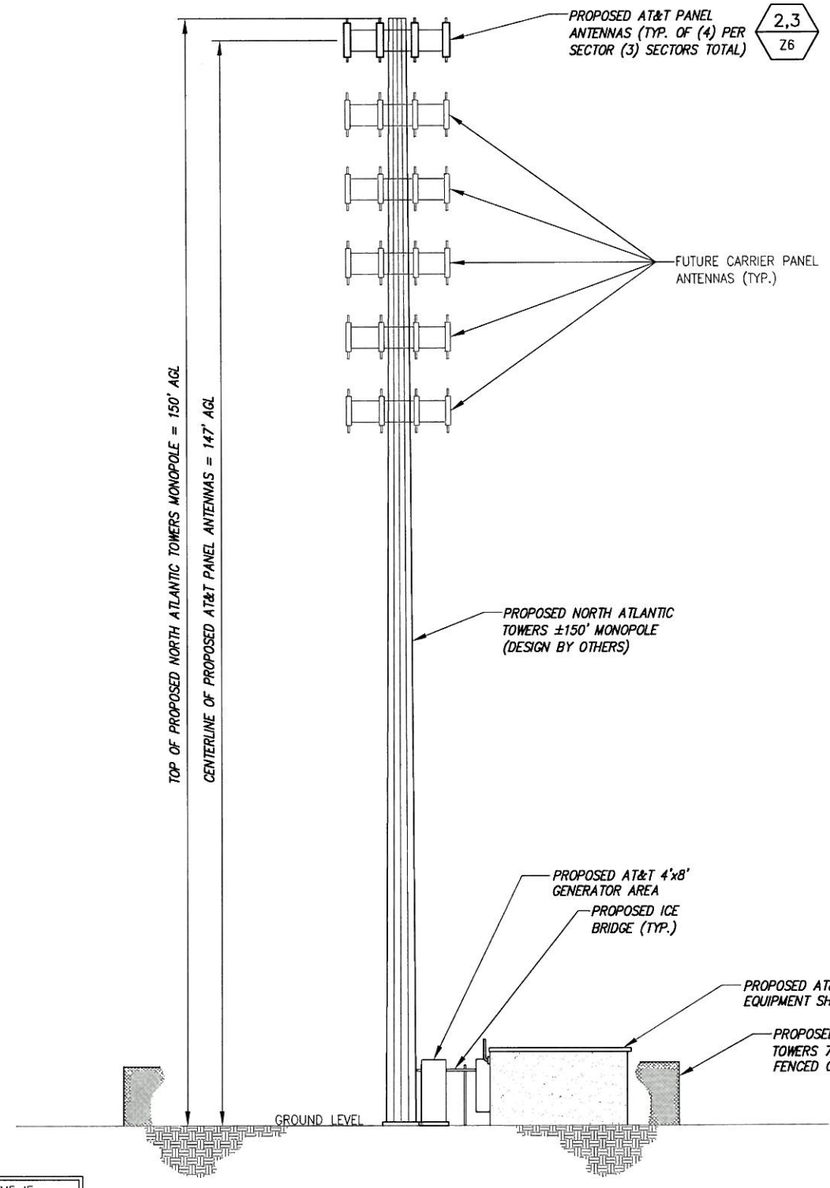
Prepared For
NORTH ATLANTIC TOWERS

Drawing Scale:
AS NOTED

Date:
9/27/11

Drawing Title
GRADING NOTES & DETAILS

Drawing Number
Z5



1 -- TOWER ELEVATION
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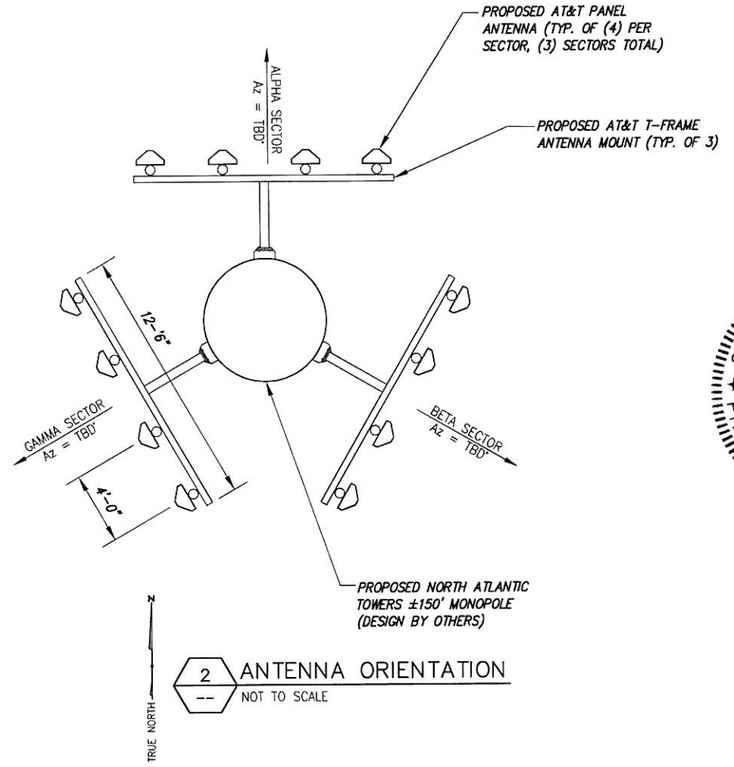

2 -- ANTENNA ORIENTATION
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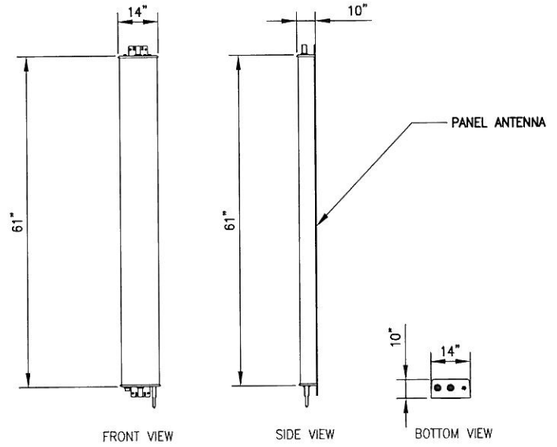

3 -- ANTENNA SPECIFICATIONS (AT&T)
NOT TO SCALE

STRUCTURAL ANALYSIS NOT COMPLETED AT TIME IF ISSUANCE OF THESE DRAWINGS. THE STRUCTURAL ANALYSIS MUST BE COMPLETED PRIOR TO CONSTRUCTION.

PROPOSED ANTENNA RAD CENTER IS PRELIMINARY AND IS SUBJECT TO CHANGE WITH FINAL RF CONFIGURATION BY RF ENGINEER.

BASEMAPPING PREPARED FROM INFORMATION OBTAINED AT A SITE WALK BY INFINIGY ENGINEERING ON 06/09/10, AND INFORMATION PROVIDED BY NORTH ATLANTIC TOWERS AND AN ACTUAL FIELD SURVEY BY VS LAND DATA WAS DONE ON 9/20/10.

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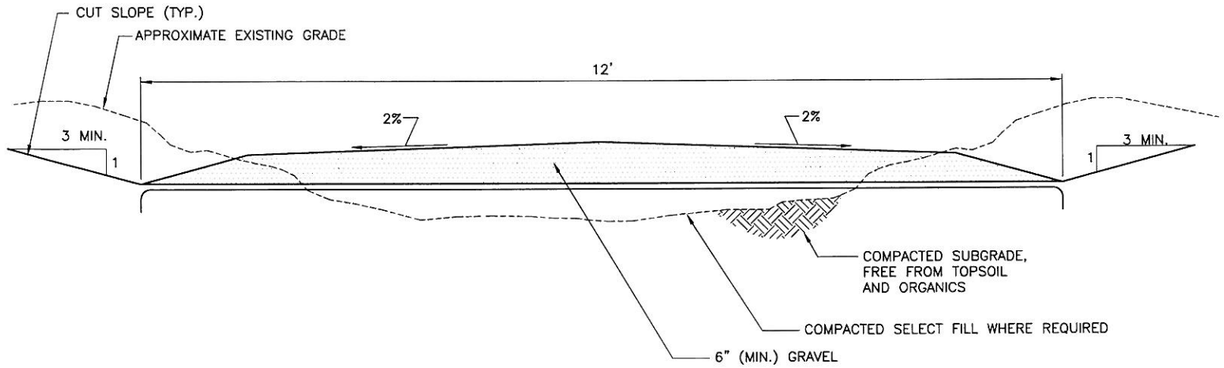
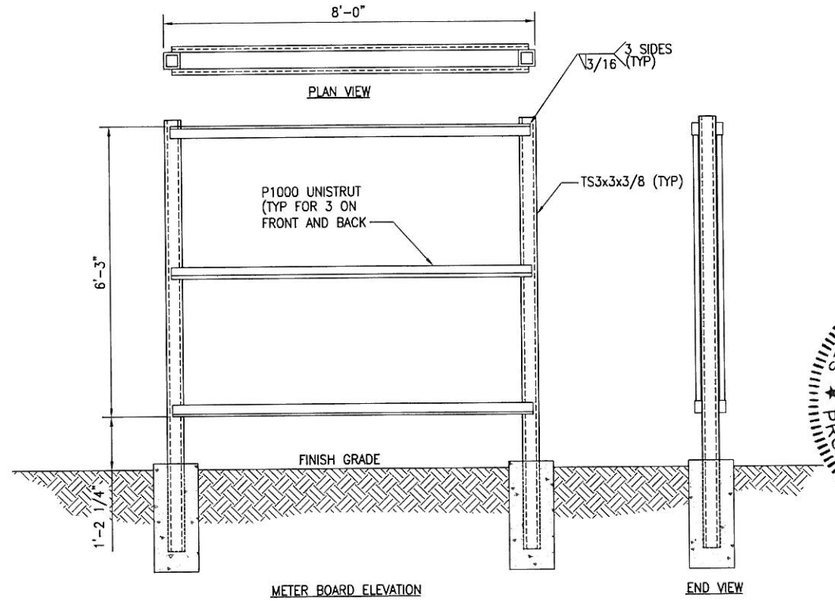
Drawing Title
ELEVATION VIEW

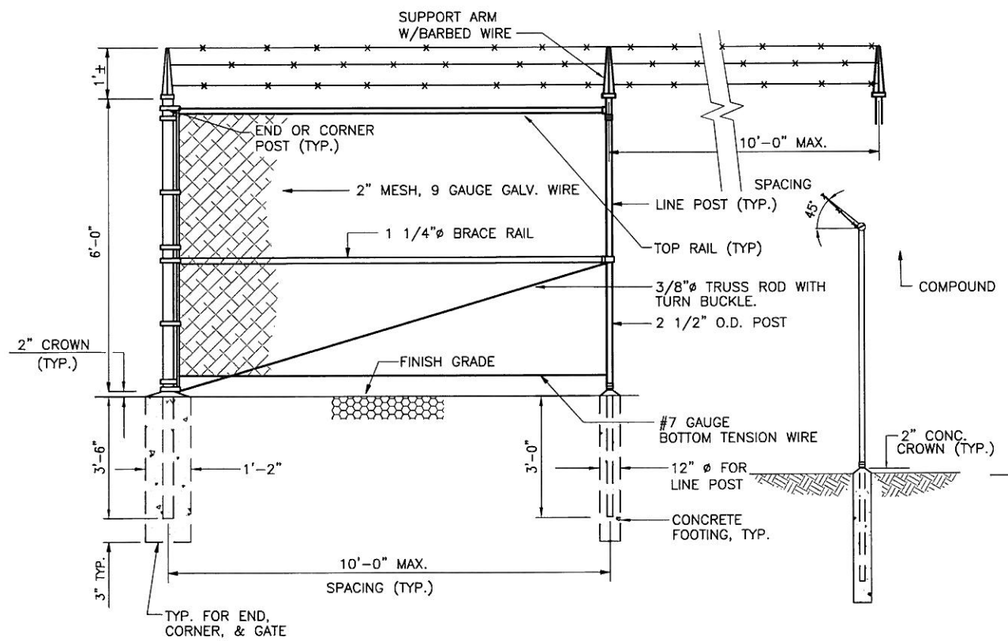
Drawing Number
Z6



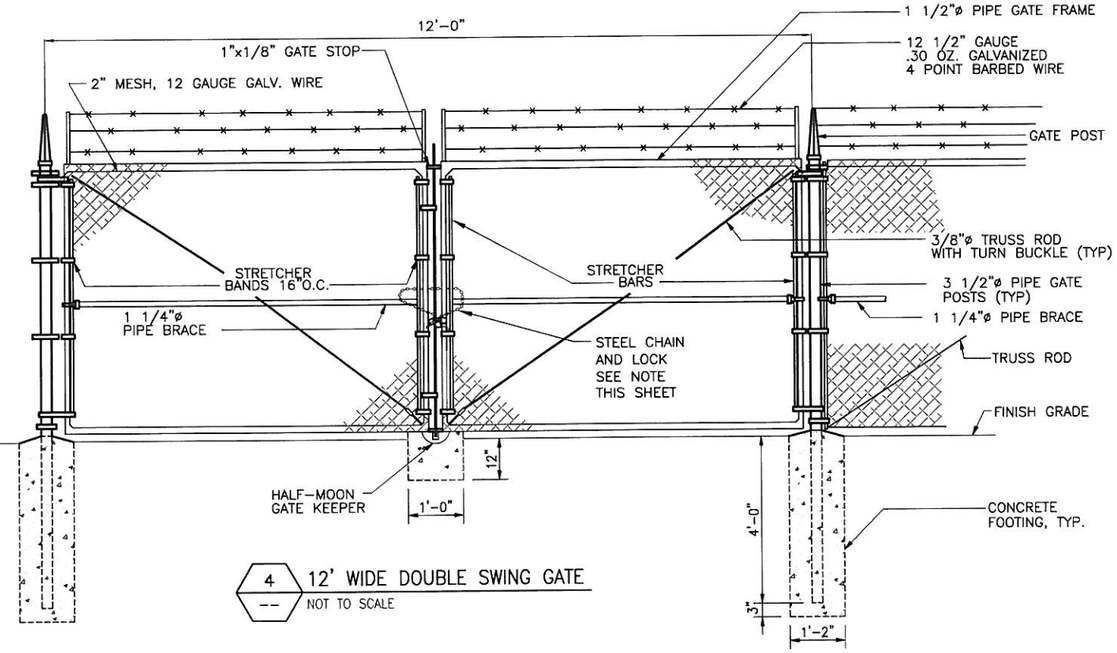
1 -- DRIVEWAY SECTION – CROWNED
NOT TO SCALE



3 -- 8'-0" WIDE METER BOARD FABRICATION DETAIL
NOT TO SCALE



2 -- CHAIN LINK FENCE DETAIL (ELEVATION)
NOT TO SCALE



4 -- 12' WIDE DOUBLE SWING GATE
NOT TO SCALE

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PRELIMINARY

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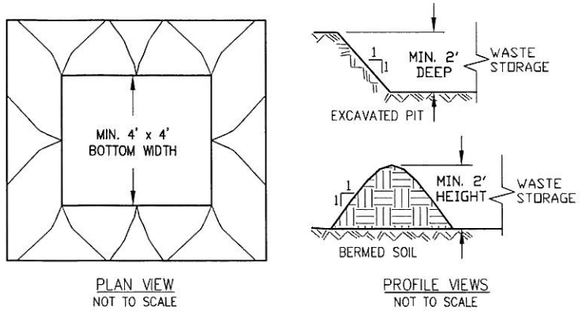


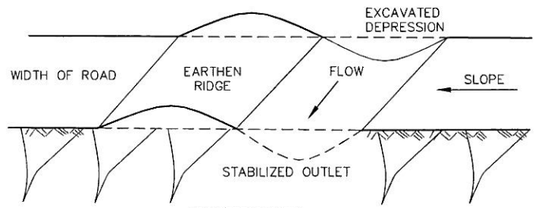
PLAN VIEW
NOT TO SCALE

PROFILE VIEWS
NOT TO SCALE

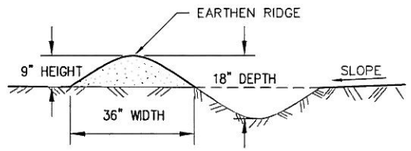
CONSTRUCTION SPECIFICATIONS

1. LOCATE CONTAINMENT PIT ON RELATIVELY LEVEL GROUND
2. DO NOT LOCATE WITHIN 100 FT OF WETLANDS OR STREAMS
3. CLEAN OUT ACCUMULATED WASTE WHEN PIT IS 50% FULL
4. CONTAINMENT AREA MAY BE CREATED BY BERMED UP SOIL

1 WASTE CONTAINMENT AREA
NOT TO SCALE



ISOMETRIC VIEW
NOT TO SCALE



CROSS
SECTION
NOT TO SCALE

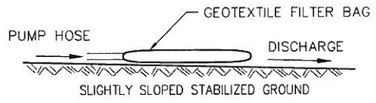
WATER BAR SPACING

% SLOPE	SPACING
2	250'
5	135'
10	80'
15	60'
20	45'
30	35'

CONSTRUCTION SPECIFICATIONS

1. INSTALL WATER BARS AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRUBBED.
2. PLACE MATERIAL FROM THE DIP ONTO THE RIDGE BEFORE CONSTRUCTING ROAD BED. TRACK THE RIDGE SEVERAL TIMES TO COMPACT IT TO THE DESIGN CROSS SECTION.
3. WATER BAR SHALL EXTEND ACROSS ENTIRE ROADWAY WIDTH AT DESIGN SPACINGS.
4. OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA WITH EXISTING VEGETATION, ADJUSTED SPACING TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION MUST BE PROVIDED WHEN EXISTING VEGETATED AREAS ARE NOT SUFFICIENTLY STABLE.
5. CROSSING WITH HEAVY VEHICLE USE SHALL BE STABILIZED WITH A 6" GRAVEL LAYER. EXPOSED AREAS OF THE WATER BAR SHALL BE IMMEDIATELY SEEDED AND MULCHED.
6. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT BUILDUP. OBSERVE OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

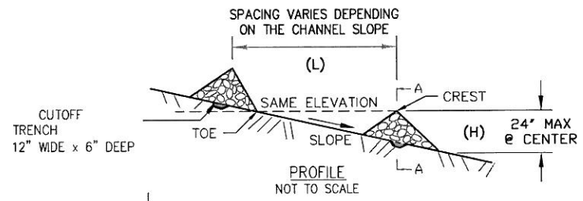
4 WATER BAR DETAIL
NOT TO SCALE



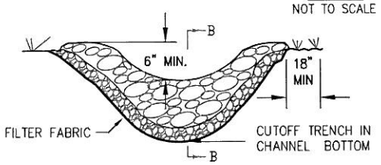
CONSTRUCTION SPECIFICATIONS

1. INSTALL AT DISCHARGE HOSE END WHENEVER DEWATERING
2. DO NOT LOCATE WITHIN 100 FT OF WETLANDS OR STREAMS
3. CLEAN OUT ACCUMULATED SEDIMENT WHEN FABRIC CLOGS
4. MAY USE CONTAINMENT AREA AS AN ALTERNATIVE METHOD

2 DEWATERING DETAIL
NOT TO SCALE

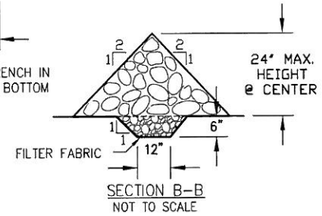


PROFILE
NOT TO SCALE



SECTION A–A
NOT TO SCALE

CALCULATE CHECK DAM SPACING:
L = HEIGHT (FT) / SLOPE (FT/FT)



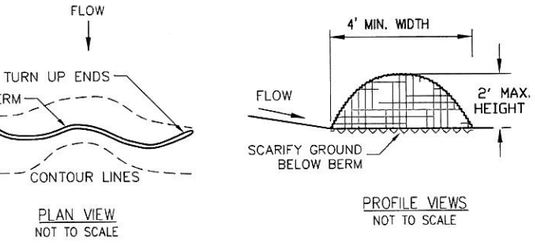
SECTION B–B
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC LAYER IN THE TRENCH TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLAN.
2. SET SPACING OF CHECK DAMS TO ALIGN THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 18 INCHES BEYOND THE DITCH SIDE SLOPES TO PREVENT CUTTING AROUND THE DAM. ENSURE CREST IS 6" LOWER THAN SIDES.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH A STONE SPLASH PAD OR EXTEND THE FILTER FABRIC LAYER.
5. ENSURE THAT CHANNEL APPURTENANCES (i.e. CULVERTS OR CATCH BASINS) BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAINTENANCE – REMOVE ACCUMULATED SEDIMENT FROM BEHIND CHECK DAMS, REPAIR ANY SIDE SLOPES THAT HAVE ERODED, AND REPLACE ANY OF THE DISPLACED STONE.

MAXIMUM DRAINAGE AREA LESS THAN 1 ACRE.

5 STONE CHECK DAMS
NOT TO SCALE



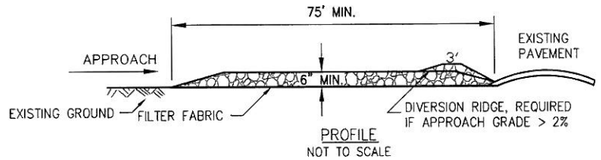
PLAN VIEW
NOT TO SCALE

PROFILE VIEWS
NOT TO SCALE

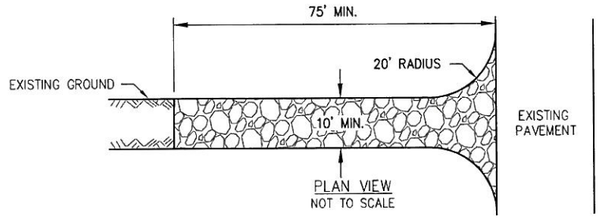
CONSTRUCTION SPECIFICATIONS

1. INSTALL EROSION CONTROL BERMS ON THE CONTOUR TO POND RUNOFF
2. BERMS MAY BE USED AS AN ALTERNATIVE TO PERIMETER SILT FENCE
3. USE RESTRICTED TO AREAS OF SHEET FLOW, DO NOT USE IN SWALES
4. REMOVE SEDIMENTS WHEN STORAGE CAPACITY IS REDUCED BY 50%
5. BERMS CONSIST OF 50% ORGANIC MATERIAL AND 50% TOPSOIL MIX
6. LOOSELY PLACE MATERIAL TO ALLOW FILTRATION, DO NOT COMPACT
7. COMPOST MAY BE UTILIZED INSTEAD OF AN ONSITE MATERIAL MIXTURE

3 EROSION CONTROL MIX BERM
NOT TO SCALE



PROFILE
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 3" CRUSHED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 75 FEET (EXCEPT IF MOUNTABLE BERM IS INSTALLED)
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TEN (10) FOOT MINIMUM, BUT NOT LESS THAN FULL ENTRANCE WIDTH.
5. FILTER FABRIC – PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE LAYER
6. DIVERSION RIDGE – REQUIRED IF APPROACH GRADE EXCEEDS 2% (MIN 6" HIGH)
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY (ROW). SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY. AND PROPERLY DISPOSED ON THE PROJECT SITE.
8. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO ROADS.
9. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH CRUSHED STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR BASIN.
10. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

6 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

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E&SC DETAILS

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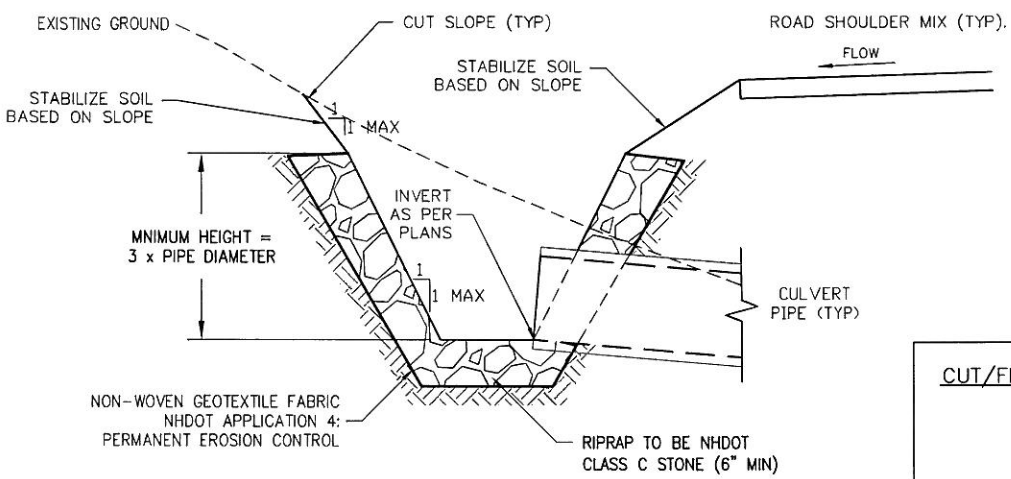


CROSS SECTION
NOT TO SCALE

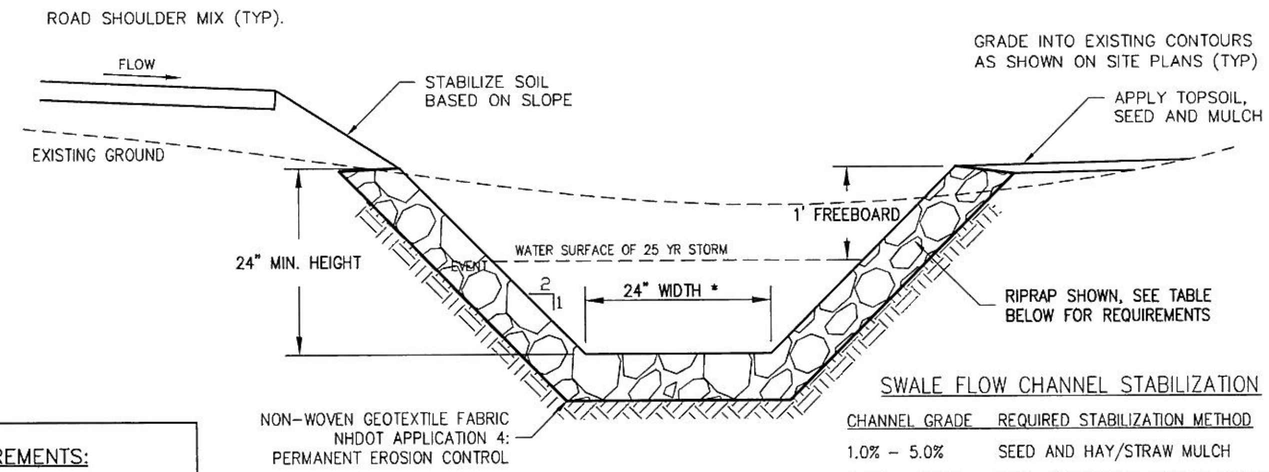
1 CULVERT INLET PROTECTION
-- NOT TO SCALE

CUT/FILL SLOPE STABILIZATION REQUIREMENTS:

3:1 (H:V) – SEED AND MULCH
2:1 (H:V) – SEED AND RECP
1:1 (H:V) – 6" RIPRAP or TRM

MATERIAL SPECIFICATIONS

- RECP (ROLLED EROSION CONTROL PRODUCT) TO BE NHDOT TEMPORARY SLOPE STABILIZATION TYPE A (ITEM 645.41)
- RIPRAP TO BE NHDOT CLASS C STONE ABOVE A LAYER OF NON-WOVEN GEOTEXTILE (APPLICATION 4: PERMANENT EROSION CONTROL)
- TRM (TURF REINFORCING MAT) TO BE NHDOT PERMANANET CHANNEL STABILIZATION TYPE A (ITEM 645.545)



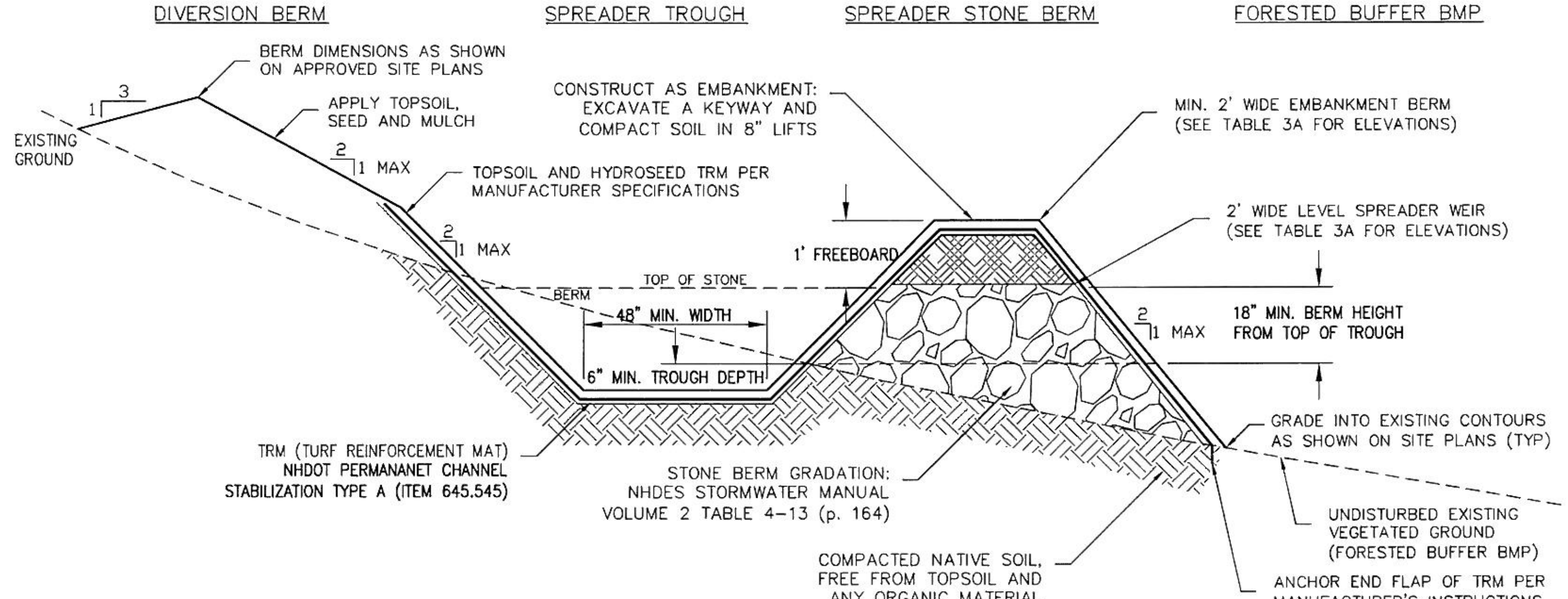
CROSS SECTION
NOT TO SCALE

2 RIP RAP SWALE
-- NOT TO SCALE

SWALE FLOW CHANNEL STABILIZATION

CHANNEL GRADE	REQUIRED STABILIZATION METHOD
1.0% – 5.0%	SEED AND HAY/STRAW MULCH
5.0% – 12.0%	SEED AND ROLLED EROSION CONTROL MAT
12.0% – 20.0%	6" NHDOT CLASS C STONE ABOVE A LAYER OF NON-WOVEN GEOTEXTILE

* SEE GRADING PLAN FOR LOCATIONS OF SWALES AND ADDITIONAL DIMENSIONS WITH ELEVATIONS

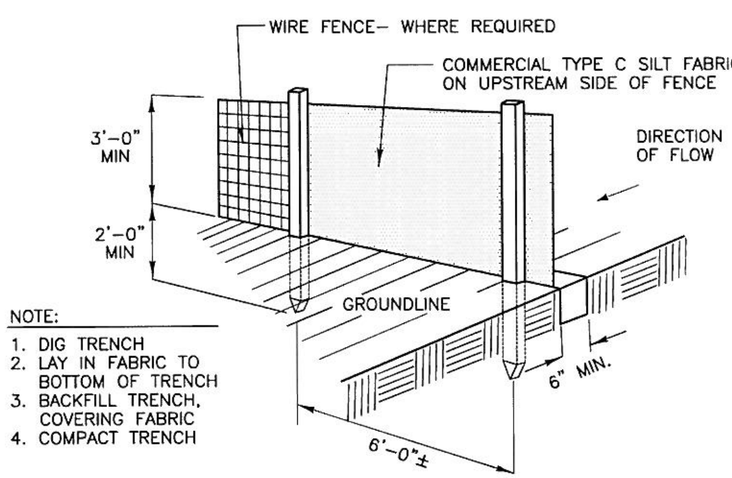


CROSS SECTION
NOT TO SCALE

3 LEVEL SPREADER DETAIL
-- NOT TO SCALE

REFERENCES:

SEE TABLE 3A ON SHEET Z5 FOR LEVEL SPREADER DIMENSIONS.



NOTE:
1. DIG TRENCH
2. LAY IN FABRIC TO BOTTOM OF TRENCH
3. BACKFILL TRENCH, COVERING FABRIC
4. COMPACT TRENCH

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULDGES" DEVELOP IN THE SILT FENCE.
5. ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES. D.O.T. QUALIFIED PRODUCTS LIST #36.

POSTS: STEEL EITHER T OR U TYPE.

FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING. AS DIRECTED BY BANKS CO.

FILTER CLOTH: FILTER X, MIRAFI 100X' STABILINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE OR APPROVED EQUAL.

4 SILT FENCE DETAIL
-- NOT TO SCALE

infinigy engineering
11 Herbert Drive
Latham, NY 12110
OFFICE: (518) 690-0790
FAX: (518) 690-0793

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. ANY ALTERATION OR ADDITION TO THIS DOCUMENT OR THE LOCATION OF APPLICABLE STATE AND/OR LOCAL LAWS

No.	Submittal / Revision	App'd	Date
6	REVISED PER COMMENTS	AJD	10/11/11
5	REVISED PER COMMENTS	EKM	9/27/11
4	REVISED PER COMMENTS	EKM	9/23/11
3	ADDED E&SC and SWM	JWC	9/19/11
2	REVISED PER COMMENTS	AJD	5/23/11
1	REVISED PER COMMENTS	MDR	3/11/11
0	ISSUED FOR REVIEW	BPM	1/19/11

Drawn: BPM Date: 3/11/11
Designed: AJD Date: 3/11/11
Checked: AJD Date: 3/11/11

Project Number
226-064

Project Title

WOODSTOCK
CT1182

ROUTE 198
WOODSTOCK, CT 06281

Prepared For

NORTH ATLANTIC TOWERS

Drawing Scale:
AS NOTED

Date:
9/27/11

Drawing Title

SWM DETAILS

Drawing Number

Z9

Federal Aviation Administration
Air Traffic Airspace Branch, ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-0520

Aeronautical Study No.
2010-ANE-807-OE

Issued Date: 10/01/2010

Curtis Miller
Florida Tower Partners, LLC
1001 3rd Avenue West
Suite 420
Bradenton, FL 34205

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Monopole CT1182 Woodstock
Location:	Woodstock, CT
Latitude:	41-56-21.97N NAD 83
Longitude:	72-04-55.26W
Heights:	190 feet above ground level (AGL) 990 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part I)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part II)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking and/or lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 K Change 2.

While the structure does not constitute a hazard to air navigation, it would be located within or near a military training area and/or route.

This determination expires on 04/01/2012 unless:

(a) extended, revised or terminated by the issuing office.
(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (816) 329-2508. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-ANE-807-OE.

Signature Control No: 129236834-131651459 (DNE)
Vee Stewart
Specialist

Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2010-ANE-807-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

TOPO Map for ASN 2010-ANE-807-OE