INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

482 TOWN STREET
EAST HADDAM, CT 06423



VICINITY MAP
SCALE: NTS

GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE *DRAWING* PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
    A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
15. THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

AMP	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
AF	AMP. FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT (GENERIC TERM OF RACEWAY, PROVIDE AS SPECIFIED)
CB	COMBINER BOX
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL SYSTEM INSTALLER
EMT	ELECTRICAL METALLIC TUBING
FS	FUSIBLE SWITCH
FU	FUSE
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HZ	FREQUENCY (CYCLES PER SECOND)

ABBREVIATIONS CONTINUED

JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILO-WATT
KWH	KILO-WATT HOUR
L	LINE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO #	NUMBER
NTS	NOT TO SCALE
OCP	OVER CURRENT PROTECTION
P	POLE
PB	PULL BOX
PH Ø	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
SN	SOLID NEUTRAL
SWBD	SWITCHBOARD
TYP	TYPICAL
U.O.I.	UNLESS OTHERWISE INDICATED
WP	WEATHERPROOF
XFMR	TRANSFORMER
+72	MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

SHEET INDEX

PV-1	COVER SHEET W/ SITE INFO & NOTES
PV-2	ROOF PLAN W/ MODULE LOCATIONS
PV-3	PROPERTY LINE
PV-4	ELECTRICAL 3 LINE DIAGRAM
AP	APPENDIX

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.

Issued / Revisions

NO.	DESCRIPTION	DATE
R1	SYSTEM SIZE UNDER AHJ	03/31/2026
P1	ISSUED TO TOWN SHIP FOR PERMIT	10/15/2025

Project Title:

BORGE, NANCY

TRINITY ACCT #: 2025-09-1408071

Project Address:

482 TOWN STREET
EAST HADDAM, CT 06423
41.4780, -72.4449

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

DRAWING DATE:	10/15/2025
DRAWN BY:	PM
REVISED BY:	ST

System Information:

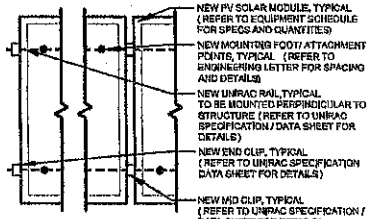
DC SYSTEM SIZE:	16.4kW
AC SYSTEM SIZE:	12.2kW
MODULE COUNT:	40
MODULES USED:	HANWHA 410
MODULE SPEC #:	QPEAK DUO BLK ML-G10 CI+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	51539992027
UTILITY METER #:	034952052
DEAL TYPE:	LIGHTREACH

Rev. No.	Sheet
R1	PV - 1

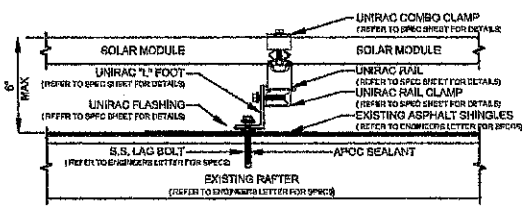
Trinity SOLAR

2211 Allenwood Road
Wall, New Jersey 07719
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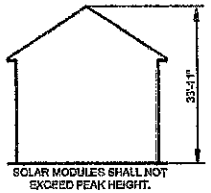
OTES : *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
*DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



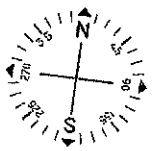
ATTACHMENT & CLIP DETAIL
SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
SCALE: NOT TO SCALE



HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
SCALE: NOT TO SCALE



RAY SCHEDULE

OF 1
ODULES: 14
ITCH: 30
RIENTATION: 172

OF 2
ODULES: 0
ITCH: 20
RIENTATION: 352°

OF 3
ODULES: 0
ITCH: 30
RIENTATION: 352°

OF 4
ODULES: 6
ITCH: 30
RIENTATION: 172

OF 5
ODULES: 0
ITCH: 20
RIENTATION: 352°

OF 6
ODULES: 0
ITCH: 20
RIENTATION: 172°

OF 7
ODULES: 0
ITCH: 20
RIENTATION: 262°

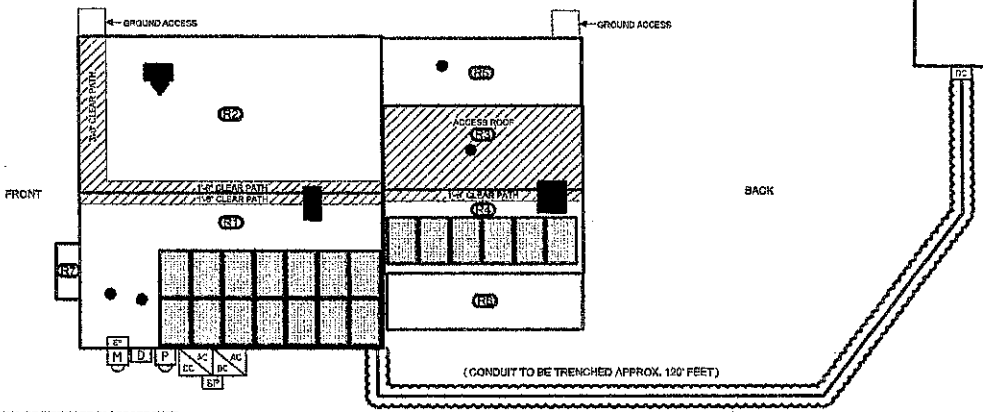
OF 8
ODULES: 0
ITCH: 30
RIENTATION: 262°

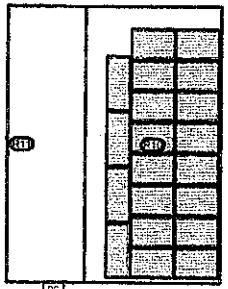
OF 9
ODULES: 0
ITCH: 30
RIENTATION: 82°

OF 10
ODULES: 20
ITCH: 39
RIENTATION: 83

OF 11
ODULES: 0
ITCH: 45
RIENTATION: 263°

***NOTE: COMPLIES WITH 2021 IRC AS AMENDED BY 2022 CTSBC
IRC R324.6.2
PLAN VIEW TOTAL ROOF AREA: 2197 FT²
PHOTOVOLTAIC ARRAY TOTAL AREA: 439 FT²
ARRAY PERCENTAGE OF PLAN VIEW TOTAL ROOF AREA: 19.97%





***NOTE: DETACHED NONHABITABLE STRUCTURE EXEMPT FROM ROOFTOP SETBACKS PER 2022 CTSEC / 2021 IRC R324.6 EXCEPTION (1)

NOTES:
1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (B) .
5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

SYMBOL LEGEND					
R1	INDICATES ROOF DESIGNATION , REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	UD	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	SP	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
M	INDICATES EXISTING METER LOCATION		INDICATES NEW PV SOLAR MODULE, RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS, REFER TO EQUIPMENT SCHEDULE FOR SPECS	DC	INDICATES NEW DC DISCONNECT
EP	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE	P	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.	SD	INDICATES EXISTING SERVICE DISCONNECT
D	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	PV/AC	INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS.	TS	INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE
OTHER OBSTRUCTIONS

EQUIPMENT SCHEDULE	
QTY	SPEC #
40	HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)
1	USE7600H-USMNBE78
1	USE7600H-USMNBE78
40	U650 SE OPTIMIZERS
29	UNIRAC 171REM1-US NXT UMOUNT RAIL - 171" MILL (US)
13	UNIRAC RLSPLCM2-US NXT UMOUNT RAIL SPLICE (US)

Issued / Revisions		
R1	SYSTEM SIZE INCREASE	12/1/2025
P1	ISSUED TO HOMEOWNER FOR PERMIT	10/15/2025
NO.	DESCRIPTION	DATE

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BORGE, NANCY
TRINITY ACCT #: 2025-09-1408071

Project Address:
482 TOWN STREET
EAST HADDAM, CT 06423
41.4780, -72.4449

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PROPOSED PV SOLAR SYSTEM

Drawing Information	
DRAWING DATE:	10/15/2025
DRAWN BY:	PM
REVISED BY:	ST

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DC SYSTEM SIZE:	16.4kW
AC SYSTEM SIZE:	15.2kW
MODULE COUNT:	40
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	5559392027
UTILITY METER #:	034952092
DEAL TYPE:	LIGHTREACH

Rev. No. R1

Sheet PV - 2

Trinity SOLAR
2211 Allenwood Road
Wall, New Jersey 07719
877-786-7283
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Trinity SOLAR

Borge, Nancy

482 Town Street East Haddam CT

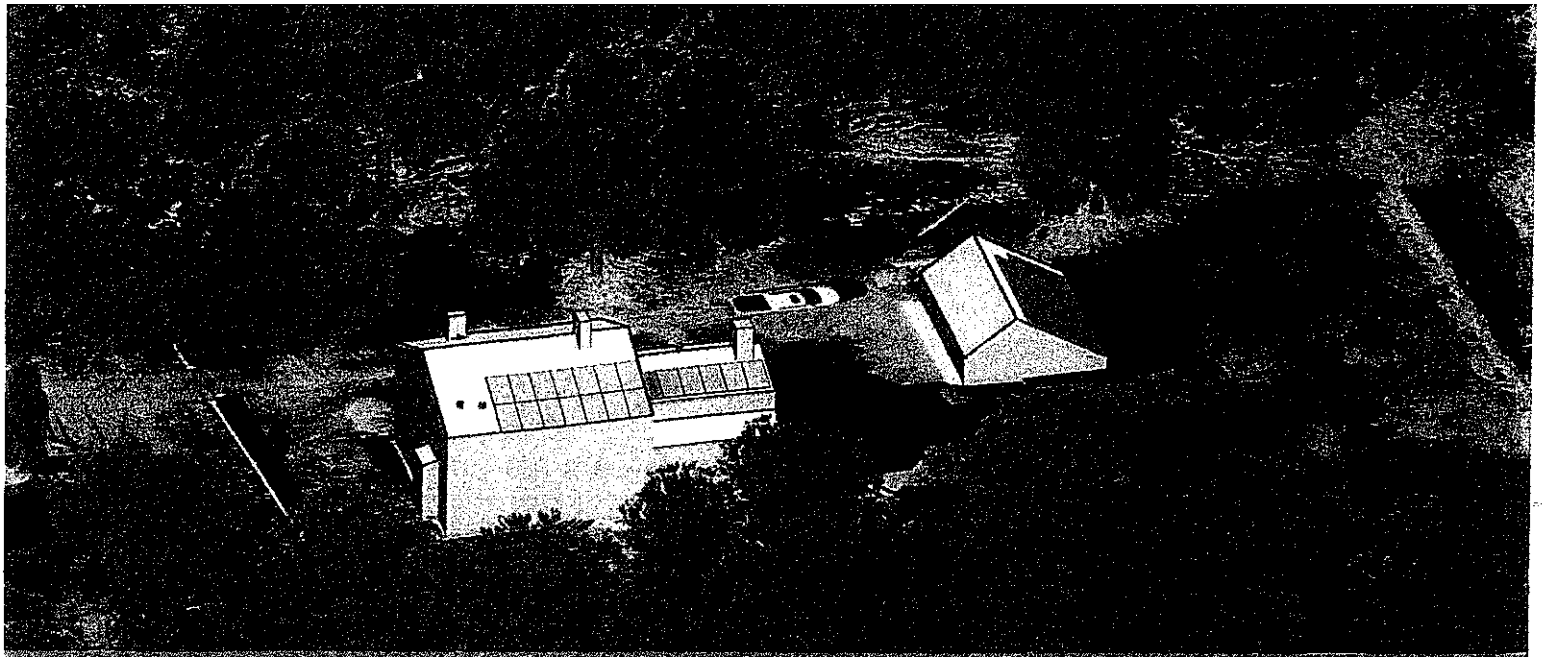
Date: 11-25-2025

MODULE WATTAGE USED: 410W

POWERED BY oneDRAW



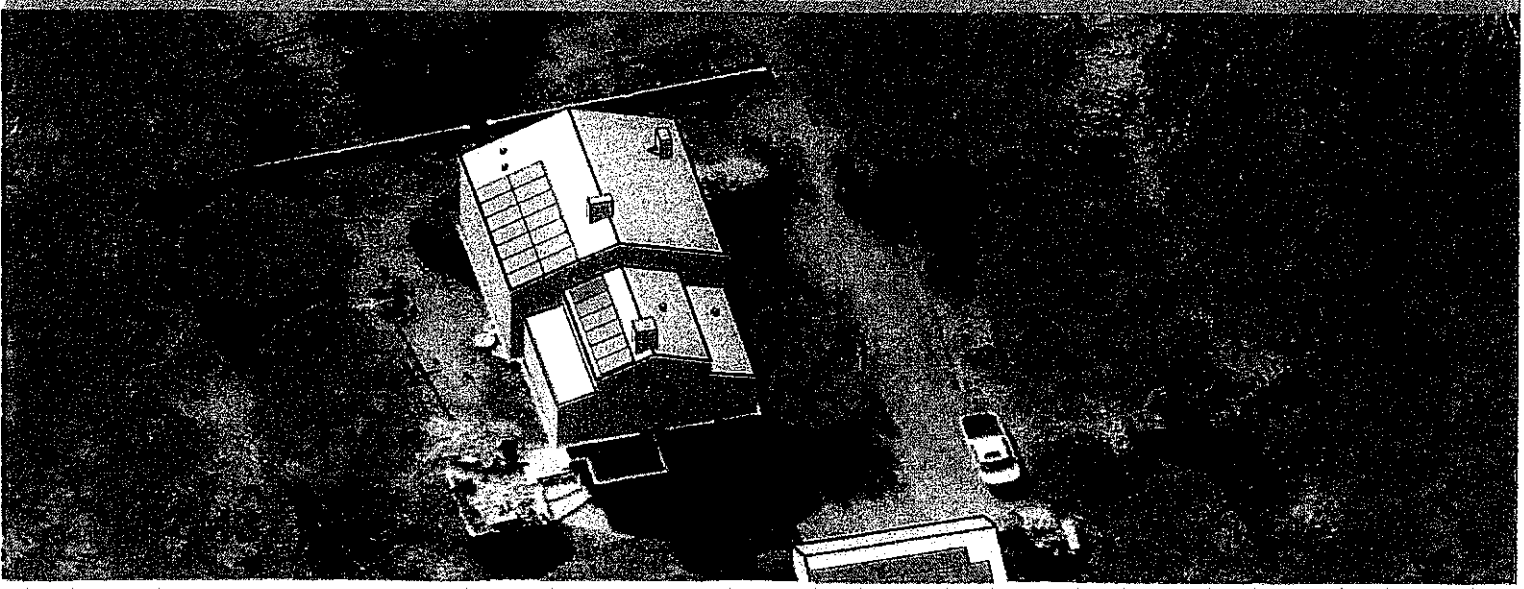
EFFICIENCY (TSRF)

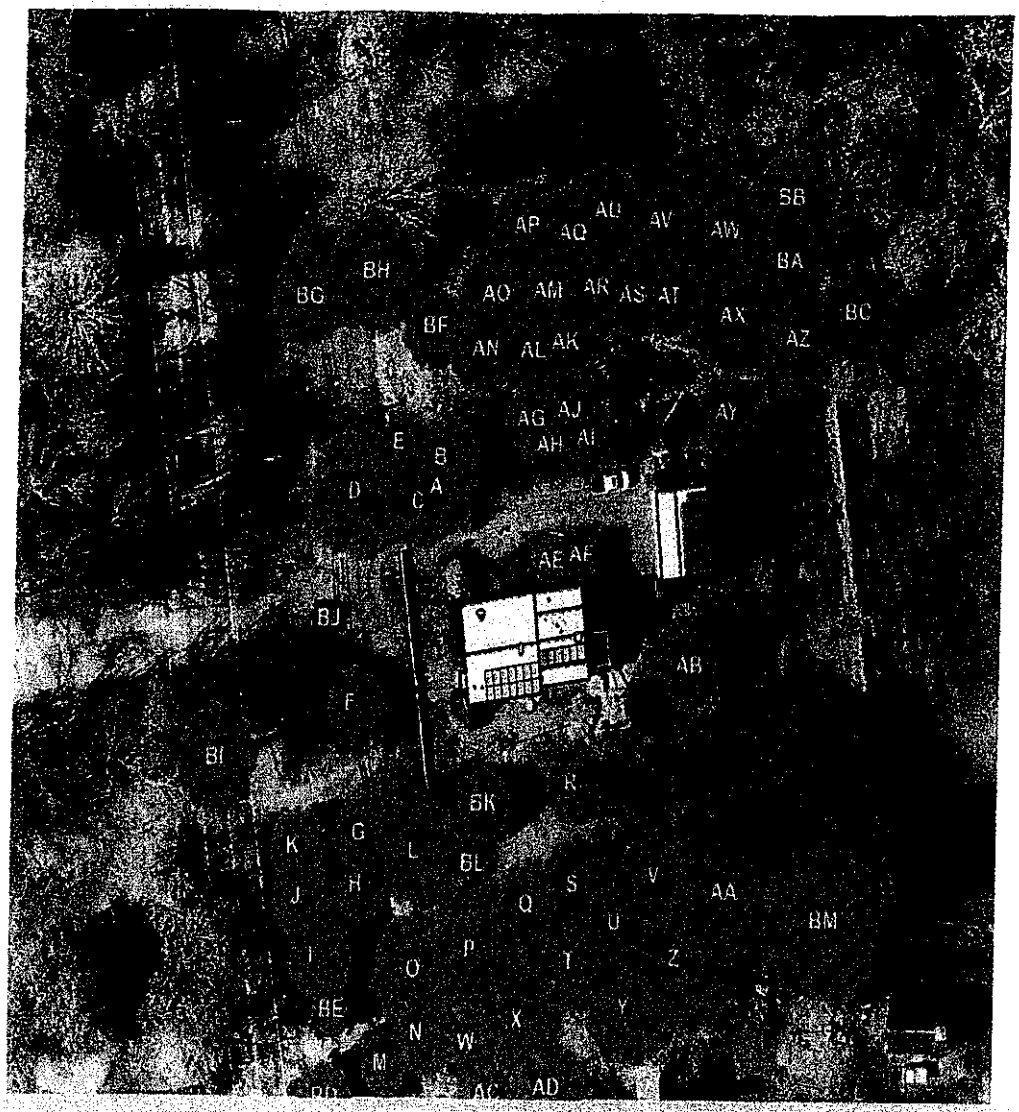


VIEW LOOKING NORTH



VIEW LOOKING WEST

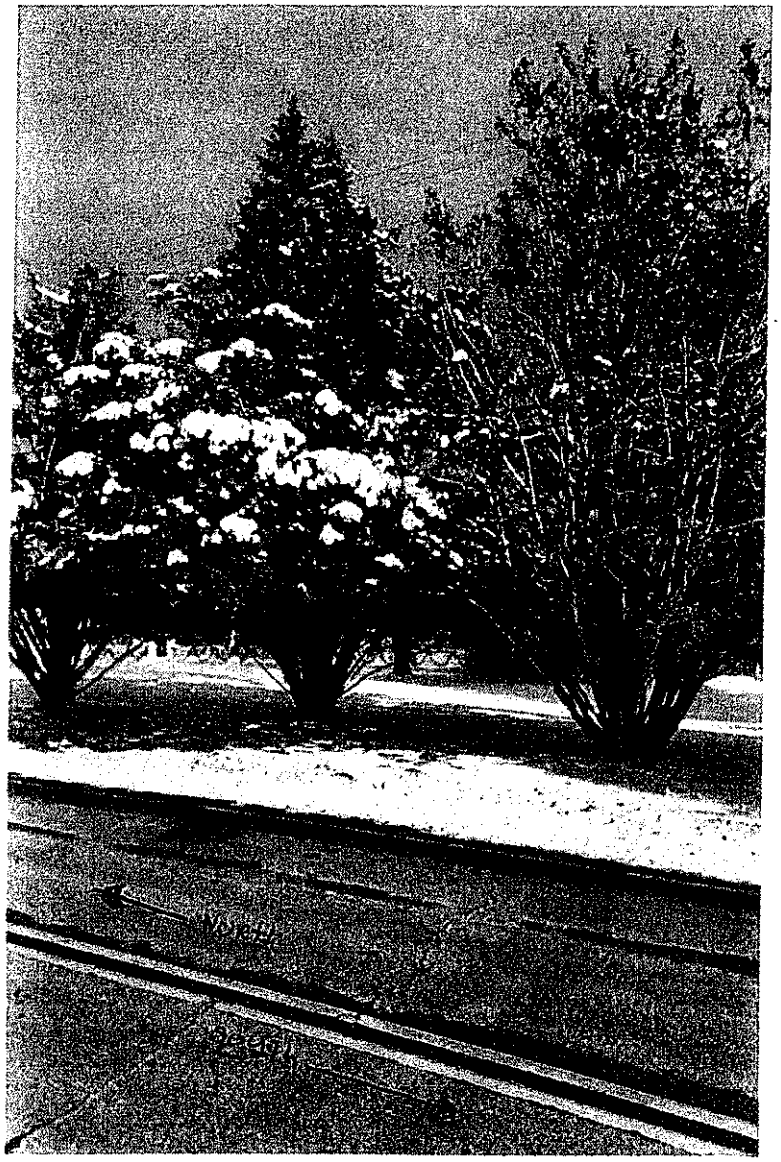




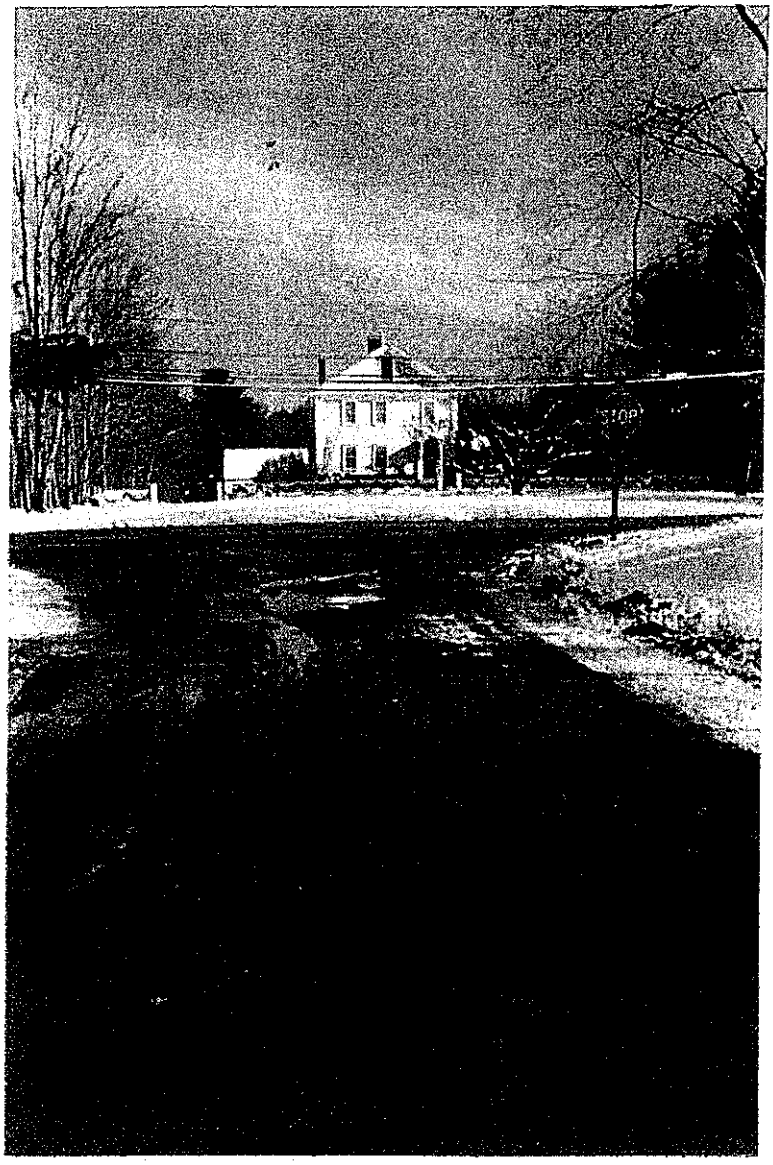
TREE REFERENCE

↑ NORTH

482 TOWN STREET



STREET



DEER RUN

