



**STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL
PROTECTION
GREEN ACRES PROGRAM**

**SCOPE OF SURVEY SERVICES
AND
STANDARD DETAIL REQUIREMENTS**

July 1, 2011

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**State of New Jersey
Department of Environmental Protection
Green Acres Program**

**STANDARD DETAIL REQUIREMENTS FOR
NJDEP GREEN ACRES SURVEYS
(Effective July 1, 2011)**

1. PURPOSE

The New Jersey Department of Environmental Protection's Green Acres Program is a state agency with the following mission statement: "To achieve, in partnership with others, a system of interconnected open spaces, whose protection will preserve and enhance New Jersey's natural environment and its historic, scenic, and recreational resources for public use and enjoyment." The Green Acres Program administers state funds, working with landowners, municipal and county governments, nonprofit agencies, and other conservation partners to protect land through direct purchase in fee or by obtaining conservation, public access, or historic preservation easements.

The specific content and format needs of the Green Acres Program are unique to its mission of acquiring interests in real property, and are not fully met by the minimum land survey standards and requirements by NJSA 45:8--27 et seq. and NJAC 13:40--1.1 et seq., even when supplemented by the Minimum Standard Detail Requirements of ALTA/ACSM Land Title Surveys. New Jersey statutory and regulatory survey requirements, applicable sections of ALTA/ACSM detail requirements (effective February 23, 2011, and used by permission), and agency-specific requirements are incorporated herein to more fully address NJDEP/ Green Acres Program survey needs.

These Standard Detail Requirements for New Jersey Department of Environmental Protection (NJDEP) Green Acres Surveys have been developed primarily to assure a more consistent format and presentation of information as to the many matters which might be discoverable from survey and inspection, and which may or not be evidenced by the public records.

A survey plan or plat serves as a record of field and record conditions at the time of the survey, and supplements a corresponding deed description of real property. The Green Acres Program utilizes these documents when encumbering land by restrictive covenant to assure that the property will be used for outdoor recreation or open space for public's use and benefit. For these documents to be acceptable to the Green Acres Program, the plan of real property must show the land to be free and clear of survey matters (except those matters disclosed by the survey and indicated on the plat or map), certain specific and pertinent information must be presented to identify the distinct and clear understanding between the State of New Jersey, the seller(s) of the property, the purchaser(s) of the property (all acquisition partners), the title insurance company (insurer), and the surveyor professionally responsible for the survey.

The State of New Jersey, the seller of the property, the title insurer, and any acquisition partners are entitled to rely on surveyors to conduct surveys and prepare associated plans or plats together with their corresponding but separate metes and bounds deed descriptions that are of a professional quality and are appropriately uniform, complete and accurate. To that end, and in the interests of the general public; the surveying profession; title insurers; the State of New Jersey, Department of Environmental Protection, Green Acres Program (with reference to the joint efforts of ALTA and the National Society of Professional Surveyors, Inc. who jointly promulgated minimum standard of performance for ALTA/ACSM Land Title Surveys), does hereby set forth the within details and criteria as the standard performance for NJDEP Green Acres Surveys.

A complete Green Acres Survey includes the research, fieldwork, and all deliverables as established by contract and as prepared in conformance with the specifications herein. This work includes but is not limited to records research as required under **Section 4** herein, on-site fieldwork required under **Section 5** herein, preparation of a plan or plat as required under **Section 6A** herein showing the results of the fieldwork and its relationship to record documents, a corresponding Deed Description as required under **Section 6B** herein,

digital copies of the survey and description as required under **Section 6** herein, and the plan certification and Surveyor's Certification and Summary Form outlined in **Section 7** herein.

2. REQUEST FOR SURVEY

The survey may be ordered by the State of New Jersey, a municipal government, a county government, a nonprofit organization, or by the seller, depending upon the final intended disposition of the property by NJDEP and any real estate contracts made with the seller. In every case, the survey must be prepared in accordance with a written contract, followed by an authorization to proceed from the person or entity responsible for paying the contract for professional land surveying services. Due to the Open Public Records Act (OPRA) and other laws regarding government records, copyright laws cannot apply to surveys prepared under these contracts.

The survey contract shall specify that a NJDEP Green Acres Survey is required. In every case the contract shall specify that the State of New Jersey, Department of Environmental Protection Green Acres Program is also one of the "Ultimate Users" (NJAC 13:40 5.1 (d)). The contract shall provide for financial remuneration as an "all-inclusive, not to exceed" price that covers any and all any costs associated with the preparation of the survey to avoid any cost overruns. In rare instances, certain properties, including but not limited to marinas, campgrounds, trailer parks and leased areas, may present issues outside those normally encountered on an NJDEP Green Acres Survey. The scope of work related to such properties is to be discussed among the surveyor, the person or entity responsible for paying the contract for professional land surveying services, the title insurer (if necessary), and the NJDEP Green Acres Program, and agreed upon in writing as to the costs to provide all deliverables related to the survey to eliminate or drastically minimize the possibility of any cost overruns prior to authorizing the survey.

The NJ Licensed Land Surveyor, pursuant to NJSA 45:8-44.1 et seq. has the authority "to go on, over and upon lands of others during reasonable hours." The NJ Licensed Land Surveyor who is working for the NJ Department of Environmental Protection in connection with State Land Acquisition surveys is authorized pursuant to NJSA 13:1D-9 to enter private lands. If eminent domain proceedings are considered, the NJ Licensed Land Surveyor acting on behalf of prospective condemnor pursuant to NJSA 20:3-16 et seq. has the authority make surveys in connection with the possible litigation.

The NJ Licensed Land Surveyor shall provide written notice via US postal system to the adjoiners, pursuant to the regulatory authority above. In the case of all State Land Acquisition surveys, in addition to the adjoiners, the surveyor will send written notice to the municipal Police Department (see **Sample Form 3**) and via fax (see **Sample Form 2**) to the state division to whom the property will be assigned. If needed, in some instances where the property is fenced, block or posted, the surveyor shall be responsible for securing permission to enter upon the property to be surveyed, to access the adjoining properties, or to access any offsite easements.

Freshwater Wetlands survey work is not usually required for NJDEP Green Acres Surveys. When required by contract with NJDEP, follow the specifications and guidelines provided by NJDEP

Topographic survey work is not usually required for NJDEP Green Acres Surveys. If required by NJDEP, the recommended contour interval and elevation requirement for stable and unstable spot locations will be included in specifications and guidelines outside the scope of work of this document unless in combination with a Green Acres acquisition and development survey. Vertical relief will be shown with the source of information (e.g. ground survey or aerial map), contour interval, datum, and originating benchmark identified.

2A. METHOD OF ENGAGEMENT

2A-1 Site-Specific Engagement RFP

The Survey Contract Manager shall contact prequalified vendor firms that have been assigned to the region for which survey work is required, informing them of the nature, special circumstances, completion time, and due date for submittal of an all-inclusive survey cost in response to each site-specific engagement RFP. The Survey Contract Manager reserves to the right to solicit additional RFP from prequalified vendors

assigned to adjacent regions or prequalified vendors who may have previously worked in the vicinity of the project.

2A-2 Site-Specific Engagements

Prequalified vendors shall submit firm fixed costs by the Response to RFP due date for the site-specific engagement to perform professional land surveying services by the survey due date specified by the Survey Contract Manager. The Response to RFP for site-specific engagements shall be submitted as an all-inclusive survey cost. Such costs shall be provided for work to be completed within three timeframes from the date of authorization: 60 days, 90 days, or 120 days, or such other period specified in the site-specific engagement RFP.

2A-3 Cost Estimating for site-specific engagements – All Inclusive Survey Cost

The New Jersey licensed Professional Land Surveyor shall be responsible for preparing accurate Responses to RFP for Site-Specific Engagements to cover all projected costs associated with the completion of work in accordance with the site-specific engagement award, to the satisfaction of NJDEP. Failure on the part of the New Jersey licensed Professional Land Surveyor to adequately project costs will not be accepted as justification for payment request for additional work.

The Contractor's all-inclusive survey cost shall include all costs to NJDEP and includes all licenses, permits, insurance, costs associated with obtaining consent, all research, notifications, postage and delivery costs, office and field work, supplying and setting all corner markers, line markers, and all deliverables specified in **Section 8 - Deliverables** or as modified by contract for a site-specific engagement RFP.

2A-4 Notification of Site Specific Engagement Award

The Contractor with the best Response to RFP for a site-specific engagement, all factors considered, will be given the authorization to proceed by Notification of Engagement.

2A-5 Survey Contract Manager Discretion

The Survey Contract Manager shall have the flexibility to invite any one or more Contractors to submit Responses to RFP for a site-specific engagement across regional boundaries when the project area extends across such regional boundaries.

2A-6 Time for Deliverables

All deliverables and delivery times shall be specified by NJDEP in the site-specific RFP. Applicants unable to comply with the time frame will not be penalized for future responses to site-specific engagement RFPs. NJDEP will be responsible for the approval of all deliverables for each element of the tasks in the scope of work.

2A-7 Deficiency Conversion/ Correction Cost

NJDEP and Survey Contract Manager shall have the option to mitigate deficiencies in any deliverable or any portion thereof as set forth in **Section 6 - Report** and **Section 8 – Deliverables** in this document. NJDEP may offer the Contractor an opportunity to correct deficiencies or may choose to convert or correct the deficiencies in house with the charge of such correction being deducted from the final payment to the Contractor. The Contractor may accept reduction of payment as mitigation of deliverable deficiencies or elect to correct such deficiencies, if this option is offered by NJDEP. If the correction of deficiencies results in a delay of delivery beyond the due date, NJDEP may elect to file a PB36 NJ State Using Agency Formal Complaint Report.

3. SURVEYING STANDARDS AND STANDARDS OF CARE

3.1 Effective Date

This document is effective July 1, 2011 and contains the Standard Detail Requirements for all NJDEP Green Acres Surveys, required for approval by the State of New Jersey, Department of Environmental Protection, Green Acres Program. Generally, survey activities that may be required by site-specific engagements with NJDEP/Green Acres and guided by these specifications are property surveys that do not require topographic services or wetlands location. When any other types of surveys are requested, specifications and guidelines will be furnished at the time that price quotes are solicited for a site-specific engagement.

3A. General Requirements for Property Surveys

The specifications herein primarily address property surveys, the most commonly requested work for NJDEP Green Acres. They also pertain to any boundary information required or depicted in the process of completing any other type of survey work requested.

- i. The Detail Sheet supplied with the site-specific RFP will indicate the municipal tax block and lots to be surveyed. A copy from a tax map indicating the area and lots to be surveyed may also be supplied. From this information, the Contractor is required to obtain recorded deeds and other evidence to conduct the survey. The Contractor shall maintain the integrity of the municipal tax lots. Internal lot lines and individual areas per lot shall be stated on the plan, and individual lot area shall be restated in the metes and bounds description. If the site-specific RFP dictates the acquisition of a portion of a tax lot, no attempt shall be made by the Contractor to assign new lot numbers to remaining lands, unless this provision is modified by NJDEP.
- ii. The basis of bearings or north reference for all NJDEP Green Acres Surveys and the beginning point coordinate values (stated in US Survey Feet to two decimal places) shall be New Jersey State Plane Coordinate System North American Datum 1983 Adjustment (NJSPCS NAD83). The grid factor shall be applied to the Northing and Easting values in US Survey Feet of the parcel's description point of beginning, but not to horizontal survey distances in US Survey Feet. The north arrow shown on the plan must indicate the Bearing Base or reference north.
- iii. All property lines of the surveyed parcel must form closed polygons: all sides must be defined by mathematical survey expressions with angular units being degrees, minutes, and whole seconds of arc. Horizontal distances, vertical elevations, radii of curves, lengths of arc, and New Jersey Plane Coordinate values of Northing and Easting shall be stated in horizontal ground US Survey feet stated to two decimal places. See **Section 3E – Measurement Standards**.
- iv. A separate plan of survey of property shall be prepared for each tax lot or group of contiguous tax lots in common ownership. Lots that are in common ownership in the general vicinity but are not contiguous may be grouped onto a single plan only if detail and clarity of information is not compromised when the scale of the plan is reduced.
- v. A metes and bounds deed description of the property surveyed shall be prepared for each group of contiguous tax lots in common ownership or single lot if not contiguous. The deed description prepared must follow the Green Acres specific format, including the provision that requires individual area per each included tax lot within the conducted property survey. The description shall be a separate document apart from the plan of survey and shall be prepared on company letterhead that includes the survey contract vendor's name and certificate of authorization number (if applicable), street and mailing addresses, telephone and fax numbers, company Email address, and company web page (if any), and shall be signed, sealed and dated by the surveyor responsible for the preparation of the survey. A reduced copy (8-1/2" by 11") of the survey plan from which it was written shall be called for in the final paragraph and attached to each metes and bounds deed description.

3B. Other Requirements and Standards of Practice

All survey work will be performed in accordance with New Jersey laws, court rulings and administrative codes pertaining to land surveying: NJAC 7:36 Appendix 2, NJSA 45:8 et seq., NJAC 13:40-1.1 et seq., the Map Filing Law, NJSA 46:23-9.9, and other laws pertaining to this professional activity. State Government is exempted from certain statutory laws and administrative rules, and this Scope of Work is written to minimize adverse impact of such exemption.

Where conflicts between the standards set forth herein and any jurisdictional requirements and standards of practice occur, generally this document (the **New Jersey Department of Environmental Protection Green Acres Program Scope of Survey Services**) incorporates all relevant State Statutes and Administrative Codes and shall apply.

The Contractor shall be required to obtain and maintain, during the term of prequalification for site-specific engagement award, all licenses, permits, certifications, authorizations, or any documents required by federal authorities, state authorities, county and municipal governments, and international authorities, whenever necessary, to complete its site-specific engagement award

3C. The Normal Standard of Care

Special care must be taken to insure accuracy, consistency, and clarity in all documents being prepared, since Green Acres participation and resultant restrictions insures that lands are retired from development pressure and the land survey plan and corresponding metes and bounds description will likely be the last ones prepared or recorded for that parcel. The Surveyor's Statute of Limitations does not apply to survey work prepared for governmental agencies.

- i. Responsibility for work - The New Jersey licensed Professional Land Surveyor who is a member of the survey firm under contract shall be the primary point of contact for any site-specific engagement contract. The New Jersey licensed Professional Land Surveyor shall be responsible for obtaining all deeds, records, maps, measurements, and evidence to conduct a correct and accurate land survey and for providing all deliverables according to the site-specific engagement contract. The New Jersey licensed Professional Land Surveyor shall insure that the plan of survey and corresponding description of property shall be prepared and presented in the format as specified, attested to by the New Jersey licensed Professional Land Surveyor's embossed seal and original signature. The New Jersey licensed Professional Land Surveyor is responsible for checking all work and insuring that the deliverables are forwarded in the format specified in the Deliverables section of the site-specific engagement contract to NJDEP within the time period specified in the engagement award.
- ii. Supervision - A New Jersey licensed Professional Land Surveyor is responsible for coordinating the research and supervising the field work and document preparation associated with the land survey. Evidence of personal supervision is signified by the original signature and raised seal of the Land Surveyor on each land survey plan or metes and bounds deed description document submitted. It is for this reason that rubber stamps or digital signatures of the Land Surveyor are not acceptable and unlawful.

3D. Boundary Resolution

The boundary lines and corners of any property being surveyed as part of the NJDEP Green Acres survey shall be established and/or retraced in accordance with appropriate boundary law principles governed by the set of facts and evidence found in the course of performing the research and survey. Actual deed overlaps and gores are to be shown on plan with geometry and area provided. Gores will always be described in a separate metes and bounds Deed Description to be used in a Quit Claim Deed to NJDEP. Title for state acquisition lands can be obtained subject to an overlaps while municipal, county and nonprofit acquisitions may not encumber overlaps with open space funds.

The survey shall report the relationship of the boundaries of the surveyed property (i.e. contiguity, gaps, or overlaps) to its adjoiners, where ascertainable from Record Documents and/or from field evidence gathered during the process of conducting the survey of the property being surveyed. If the surveyed property is composed of multiple parcels, the extent of any gaps or overlaps between those parcels shall be identified. Where gaps or overlaps are identified, the surveyor shall, prior to preparation of the final plat or map,

disclose this to the insurer and NJDEP for determination of a course of action concerning junior/senior rights.

When, in the opinion of the surveyor, the results of the survey differ significantly from the record, or if a fundamental decision related to the boundary resolution is not clearly reflected on the plat or map, the surveyor shall explain this information with notes on the face of the plat or map.

3D-1 Deed Conflicts

The New Jersey licensed Professional Land Surveyor is responsible for obtaining all records, measurements and evidence to prepare a correct and accurate land survey, and shall present information on the plan of survey to show how the record condition now exists or fits on the ground. As a result of this research, the surveyor may uncover areas of title uncertainty such as a gore area between deeds, deed overlaps, or other areas of ambiguity. To demonstrate that adjoining records have been examined, the plan of survey must indicate information for all adjoining records, including the name of the record owner, the municipal tax block and lot, and the deed book and page number for adjoining parcels. The New Jersey licensed Professional Land Surveyor may be able to render a professional opinion as to how a deed problem was created. Conflicts with adjoining deeds that are not resolved in the process of boundary analysis by the surveyor must be shown as deed overlaps or deed gores on the plan of survey. Descriptions prepared by the New Jersey licensed Professional Land Surveyor may enable NJDEP to correct the records and clear title to land.

3D-1.1 Record Gore Areas

A gore between adjoining deeds may be the result of a true vacancy dating back to a conveyance out of the Board of Proprietors of Eastern or Western Divisions of New Jersey. Deed gores are to be defined by bearings, distances, and area, both on the survey plan and in a separate metes and bounds description, with references to tax lot and block numbers. A separate metes and bounds description of the gore area with appropriate copies shall be prepared in every case to provide NJDEP the opportunity to obtain a quit claim deed to the gore area from the Board of Proprietors or the sellers and the adjoining records as appropriate. The gore area shall be drawn on all survey plans of lots being surveyed. This description shall agree with the results of the survey plan to which it refers in every particular, and for that reason, the description must not include any information that does not appear either graphically or in a factual note on the survey plan. A reduced copy of the survey plan (8-1/2" by 11") must also be attached to each copy of the description.

3D-1.2 Record Overlap Areas

Areas of deed description overlaps are to be defined by mathematical survey expressions and area, both on the survey plan and following a qualifying clause in the metes and bounds description of the property, with references to tax lot and block numbers stated. The overlap area shall be drawn on all adjoining survey plans of lots being surveyed. The overall metes and bounds description of a property shall agree with the results of the survey plan to which it refers in every particular, and the overlap area shall be described by metes and bounds following a qualifying clause (i.e. "*subject to an overlap...*"). The area of overlap shall also be stated for each Tax Block and lot, so that the net area of each surveyed lot is known and stated both on the plan and in the corresponding metes and bounds description. The description must not include any information that does not appear either graphically or in a factual note on the survey plan. A reduced copy of the survey plan (8-1/2" by 11") must also be attached to each copy of the description.

3E. Measurement Standards

The following measurement standards address Relative Positional Precision for the monuments or witnesses marking the corners of the surveyed property.

- i. "Relative Positional Precision" means the length of the semi-major axis, expressed in feet or meters, of the error ellipse representing the uncertainty due to random errors in measurements in the location of the monument, or witness, marking any corner of the surveyed property relative to the monument, or witness, marking any other corner of the surveyed property at the 95 percent

confidence level (two standard deviations). Relative Positional Precision is estimated by the results of a correctly weighted least squares adjustment of the survey.

- ii. Any boundary lines and corners established or retraced may have uncertainties in location resulting from (1) the availability, condition, history and integrity of reference or controlling monuments, (2) ambiguities in the record descriptions or plats of the surveyed property or its adjoiners, (3) occupation or possession lines as they may differ from the written title lines, and (4) Relative Positional Precision. Of these four sources of uncertainty, only Relative Positional Precision is controllable, although due to the inherent errors in any measurement, it cannot be eliminated. The magnitude of the first three uncertainties can be projected based on evidence; Relative Positional Precision is estimated using statistical means (see **Section 3E-i.** above and **Section 3E-v.** below).
- iii. The first three of these sources of uncertainty must be weighed as part of the evidence in the determination of where, in the surveyor's opinion, the boundary lines and corners of the surveyed property should be located (see **Section 3D.** above). Relative Positional Precision is a measure of how precisely the surveyor is able to monument and report those positions; it is not a substitute for the application of proper boundary law principles. A boundary corner or line may have a small Relative Positional Precision because the survey measurements were precise, yet still be in the wrong position (i.e. inaccurate) if it was established or retraced using faulty or improper application of boundary law principles.
- iv. For any measurement technology or procedure used on a NJDEP Green Acres Survey, the surveyor shall (1) use appropriately trained personnel, (2) compensate for systematic errors, including those associated with instrument calibration required by state law, and (3) use appropriate error propagation and measurement design theory (selecting the proper instruments, geometric layouts, and field and computational procedures) to control random errors such that the maximum allowable Relative Positional Precision outlined in **Section 3E-v.** below is not exceeded.
- v. The maximum allowable Relative Positional Precision for a NJDEP Green Acres Survey is the same as an ALTA/ACSM Land Title Survey, being 2 cm (0.07 feet) plus 50 parts per million (based on the direct distance between the two corners being tested). It is recognized that in certain circumstances, the size or configuration of the surveyed property, or the relief, vegetation or improvements on the surveyed property will result in survey measurements for which the maximum allowable Relative Positional Precision may be exceeded. If the maximum allowable Relative Positional Precision is exceeded, the surveyor shall note the reason as explained in **Section 6A-vi** below.

4. RECORDS RESEARCH

A New Jersey licensed Professional Land Surveyor is responsible for coordinating the research necessary to obtaining sufficient documentation and evidence to render a survey plan which is correct as well as accurate to the stated specifications and standards. For site-specific engagement contract purposes, the surveyor shall be prepared to conduct all the research required to complete the work by the due date. Land survey plans for adjoining state owned property may be obtained from the administering division or from the original survey firm that prepared the work for NJDEP/Green Acres.

It is recognized that for the performance of a NJDEP Green Acres Survey, the New Jersey licensed Professional Land Surveyor is responsible for obtaining all records, measurements, and evidence to prepare a correct and accurate land survey, for providing reproducible copies and paper copies of the land survey plans that depict the results of the survey, and for preparing and providing the corresponding description of property, prepared on company letterhead for the deed of conveyance. To that end, the surveyor will obtain all appropriate data which can be relied upon in the preparation of the survey, including but not limited to tax records, deeds of the subject property as well as those of the adjoining parcels, public and private survey plans and filed maps. The request for a NJDEP Green Acres Survey shall set forth only the current record tax record block and lot of the property to be surveyed. If and when available, the surveyor may be provided with complete copies of the most recent title commitment, and copies of surveys of adjoining parcel surveys and deeds. However, it shall remain the responsibility of the surveyor to obtain the current record description of the property to be surveyed (or, in the case of an original survey, the parent parcel), the current record descriptions of adjoiners, any record easements benefiting the property, the record easements or servitudes and covenants burdening the property (all hereinafter referred to collectively as

"Record Documents"), documents of record referred to in the Record Documents, documents necessary to ascertain, if possible, the junior/senior relationship pursuant to **Section 3D** above, and any other documents containing desired appropriate information affecting the property being surveyed, and to which the NJDEP Green Acres survey shall make reference, shall be provided to the surveyor for use in conducting the survey. Reference is made to **Section 3B** above.

5. FIELD WORK

The Survey shall be performed on the ground (except as otherwise negotiated).

5.1 Field Procedures and Crew Responsibilities

The New Jersey licensed Professional Land Surveyor shall be responsible for the work of all survey crews operating from the firm. The survey crew shall endeavor to cause as little inconvenience as possible to property owners when conducting the field survey.

Whenever possible, random traverse lines shall be run within the property being surveyed rather than upon the lands of an adjoiner. If traverse lines are run upon the lands of an adjoiner, no clearing of lines shall be conducted without the prior written consent of the party whose name appears as the property owner on the tax rolls of that municipality.

Painting and flagging evidence shall be kept to a minimum, and permanent paint shall not be used on lands of the adjoiner without prior written consent of that landowner. Littering or damaging any property may subject the offenders and licensee to possible civil action.

Large trees shall not be cut to clear line without the prior consent of NJDEP. Brushing-out of lines on adjoining land shall be kept to a minimum and is only permitted with the prior written consent of the owner. Brushing-out of lines on future state property shall be kept to a minimum. The surveyor is responsible for compliance with regulations, including procuring permits with regard to disturbance of wetland vegetation. Copies of the written consent documents, if any, must be forwarded to NJDEP with the final deliverables.

Locate improvements within any offsite easements or servitudes benefiting the surveyed property that are disclosed in the Record Documents provided to the surveyor and that are observed in the process of conducting the survey. Identify and locate any monumentation of said easements and servitudes.

Additionally, the field crew shall report any observations of evidence of prior or current earth moving work, dumping, clearing, or disturbances on the land, all of which is to be reported on the final plan.

5.2 Notification of Parties and Surveyors' Right of Entry

The New Jersey licensed Professional Land Surveyor shall prepare and send fax and written notices as prescribed herein that their firm has been awarded a site-specific engagement contract to conduct a land survey of the property and the scheduled period of time that survey crews are scheduled to be present on the property.

5.2-a Agency Fax Notification

Prior to starting any field work, the New Jersey licensed Professional Land Surveyor must notify the Administering Agency by fax that the survey firm has been engaged to perform property survey work on the site identified by the notice and the dates that field crews will be present. The notification is to be made using the sample division notification and sent by facsimile transmission (fax) to the appropriate division representative. The paper copy of the fax letter is to be forwarded to NJDEP as a deliverable with all other notifications. See **Sample Form 2 – Agency Fax Notification**.

5.2-b Property Owner, Adjoiners and Police Notification

The New Jersey licensed Professional Land Surveyor must send written notice to the property owner (or designated representative), and any adjacent property owners upon whose land it may be

necessary to enter to complete the survey. The notice shall be reproduced as prescribed on company letterhead with a copy being sent to the police department of the municipality where the job is located and to NJDEP as a deliverable.

If it becomes necessary to enter the property without the permission of the owner, there are three statutory provisions allowing entry:

- 1) The Surveyor's Trespass Law, NJSA 45:8-44.1, to go on, over and upon lands of others during reasonable hours to make a land survey;
- 2) As an agent of the Commissioner of the Department of Environmental Protection, pursuant to NJSA 13:8A-16 land surveyors may enter on any lands for the purpose of making surveys or other inspections;
- 3) Pursuant to the provisions of Preliminary Entry of the Eminent Domain Statute, NJSA 20:3-16, agent surveyors of a prospective condemnor may enter lands during reasonable business hours to make a land survey.

Each statute requires that written notice must be sent via the United States Postal Service as Certified Mail, Return Receipt Requested. Such notice, if required, shall be sent prior to entry and the notice shall be reproduced on the letterhead of the survey firm, substantially in accordance with **Sample Form 3 – Notification of Entry Letter**.

5.2-c Other Notifications

It shall be the responsibility of the New Jersey licensed Professional Land Surveyor to determine if other notifications shall be necessary. Copies of any notices shall be provided to NJDEP as confirmation with all other survey deliverables.

When digging will be necessary, the Underground Facility Protection Act, NJSA 2C:17-5, requires a phone call to 1-800-272-1000 three business days prior to digging to request that underground utilities be marked out on site.

ALL FIELD WORK SHALL INCLUDE ITEMS IDENTIFIED IN SECTIONS 5A THROUGH 5G BELOW:

5A. MONUMENTS

- i. The location and description of any monuments or lines that control the boundaries of the surveyed property.
- ii. The location, size and type of any monuments found or set on the boundary of the surveyed property, including line markers.
- iii. The location, size and type of any other monuments placed (or a reference monument or witness to the corner) at all major corners of the boundary of the property, unless already marked or referenced by existing monuments or witnesses.

5A-1 Corner Marking and Line Marking

Pursuant to rules of the New Jersey State Board of Professional Engineers and Land Surveyors, the New Jersey licensed Professional Land Surveyor is responsible for determining the Ultimate User of the survey, the survey plan, and the corresponding description. The Ultimate User shall be considered to be NJDEP and the State of New Jersey. To clearly define where corner markers must be set and where they may be omitted, the following sub-sections shall apply.

5A-1.1 Setting Corner Markers

Corner markers shall be set at the perimeter limits of a fee simple project area where the property being surveyed adjoins any lands owned by an individual or entity other than the purchaser or Using Agency, or not being acquired in fee as a part of the same project. Corner markers shall also be set at the perimeter limits of all public access easement corridors except where the public access easement

corridor adjoins lands owned in fee by the purchaser or NJDEP or is being acquired in fee as a part of the project. Corner markers shall also be set at the perimeter limits of all conservation easements. Concrete monuments must be set at the perimeter limits of Environmental Infrastructure Funding Program (EIFP) areas. Corner markers shall be set at the intersection of a public road right-of-way line with a perimeter limit line of the project. These provisions shall apply to both fee acquisition and easement area acquisitions. Internal lines within a lot marking a public access easement corridor limit shall be marked under the same guidelines as a fee acquisition. Corners of exception areas, both fee and easement, shall also be marked. Corner markers for such residential exception areas that fall in a tilled field shall, in addition to having a surface marker set, have a detectable subsurface marker set not less than 1.5 feet below the surface. The requirement to mark corners may be clarified or modified by NJDEP in a site-specific RFP.

When Green Acres is not participating in funding the acquisition of an entire site, the limits of its participation, and therefore of its encumbrance on the land, must be marked on the ground. As an Ultimate User of all surveys in which it participates, Green Acres requires that the limits of its participation be marked in the field with permanent markers in accordance with this section and New Jersey State Board of Registration regulations.

5A-1.2 Omitting Markers

Corner markers shall be omitted where the corners are within the right-of-way or along the right-of-way line of a public road (except at the intersection of the right-of-way line with a perimeter limit line of the project, common with a private adjoiner). Corner markers may also be omitted where such corners are common with other lands owned by NJDEP, the corners are within the project area limits (i.e. internal tax lot corners), the corners are common with other lands being acquired as part of the overall project area being surveyed, or where the corners fall within a waterway, water impoundment, or vertical escarpment, unless, in the professional judgment of the surveyor, the corners should be set. Corner markers that are omitted must be identified on the plan as omitted by contractual agreement using the language required by the State Board of Professional Engineers and Land Surveyors. (See NJAC 13:40-5.1/d).

As an Ultimate User of all surveys in which it participates, Green Acres requires all corner markers to be set except as specified above.

5A-1.3 Found Markers

In instances where a corner marker would otherwise be set but during the course of conducting the survey, a corner marker is found in the field to be within a radius of 1.5 feet of the true corner as calculated by the surveyor, such corner shall be considered as marked. No new corner marker shall be set, except if this corner is the only alternative for use as the description point of beginning. The plan of survey shall clearly indicate the relationship of the found marker to the true calculated corner per the surveyor's calculations. Such relationship shall be shown graphically on the plan by north or south and east or west offset distances from the true corner and in a corner detail, if necessary for clarification. Provide the size, type and description of the marker, including cap color and identity. If a marker is found on a corner for which a monument is specified to be set, the surveyor may set the monument as a line marker, set the monument on an alternate corner, or reduce the fee for the site-specific engagement if no new monument is set.

5A-1.4 Offset Markers

At the time of the survey, any marker that cannot be set because the location of the corner is inaccessible must be set on an offset. The marker must be set on the property line as near to the corner as is practical. The disk or cap shall be stamped "OFFSET" and the actual distance in US Survey Feet to the corner shall be clearly indicated on the plan, stated to two decimal places.

5A-1.5 Public Access Corner Markers

Corner markers shall be set to physically identify the location of all public access trail corridors whether such corridors are being acquired in fee or by easement interest, unless this requirement is specifically waived or modified by NJDEP in a site-specific engagement RFP. All such corridors shall

be marked on both sidelines at each angle point and where the corridor sidelines intersect a public road right-of-way or the subject property boundary.

5A-1.6 Three Monument Minimum

To maintain the coordinate system for potential future surveys or re-surveys, the Contractor shall set a minimum of three monuments for corner markers, visible from one to another if at all possible, at each grouping of contiguous parcels that constitute a project area. The NJPCS Northing and Easting values must be stated for each of the three monuments set under this provision. It is highly preferred that one new set monument be selected as a description point of beginning for which the NJPCS Northing and Easting values must be stated. If the corner selected to be the Description Point of Beginning was found previously marked, then a monument must be set on an alternate corner to maintain the three monument minimum requirement. If all original corner markers are found undisturbed, concrete monuments shall be set as line markers and added as accessories to those corners to fulfill the requirement for three new monuments. If original undisturbed corner markers are found within 1.5 feet of the record location, the corner is considered marked by a monument pursuant to the "Map Filing Law". A detail of the relation of the found mark to the calculated corner must be provided. If the marker is greater than 1.5 feet from the calculated corner, an additional marker may be set at the surveyed corner. Do not replace corner markers that are found or markers considered Monuments under the "Map Filing Law".

5A-1.7 Cap Detail

To indicate the casting and stamping of each type of cap, disk, shiner, etc. actually set to mark corners, a detailed enlargement, not necessarily drawn to scale, shall be depicted on the survey plan. Each corner marker set in the field shall bear the name of the survey firm and shall be stamped with the year set and the corner number.

5A-1.8 Acceptable Corner Markers

All corner markers shall contain a standard 3-1/2 inch or 2-1/2 inch bronze or aluminum disk that bears the name of the survey firm and shall be stamped with the year set and the corner number.

Corner markers shall generally be set flush with the ground except in rural, unimproved areas where the top of the marker may extend not more than 0.2 foot above the ground surface. Green Acres reserves the right to specify the cap design and marker type or to supply corner markers or monuments in a site-specific engagement RFP.

5A-1.8-a Disks

Disks may be used for corner markers if the calculated survey corner falls on a large boulder or on poured concrete slabs, curbs, bridges, or walls. Each disk shall be a standard 3-1/2 inch or 2-1/2 inch bronze or aluminum disk set and cemented in a drill hole. The disk may be of such other materials or design approved by NJDEP for the site-specific engagement.

5A-1.8-b Monuments

All monuments set shall be one of two types: pre-cast or poured in place and set flush, but not more than 0.2 foot above the ground surface. Monuments shall be constructed of reinforced concrete, detectable with a ferrous or magnetic locator, not less than 4 inches square on top, not less than 4 inches square on the bottom, not less than 30 inches in length, and displaying a standard 3-1/2 inch or 2-1/2 inch bronze or aluminum disk. Monuments may be prefabricated of other materials or design if pre-approved by NJDEP for the site-specific engagement.

5A-1.8-c Subsurface Markers

Corner markers for a residential exception area to an easement acquisition that fall in a tilled field shall, in addition to having a surface marker set, have a ferrous or other metal detectable subsurface marker set not less than 1.5 feet below the surface. The requirement to set subsurface markers or mark these corners may be clarified or modified by NJDEP in a site-specific RFP or by mutual agreement of NJDEP and the New Jersey licensed Professional Land Surveyor at the time of the survey.

5A-1.8-d Rebar

All other corner markers other than disks or monuments shall consist of minimum 1/2 inch diameter rebar pins, driven to a point of refusal but shall not less than 24 inches in length. Larger diameters or longer lengths may be necessary to deter vandalism or removal. All rebar pins when set shall contain a standard 3-1/2 inch or 2-1/2 inch bronze or aluminum disk. Plastic caps are not acceptable for marking corners. Corner markers shall generally be set flush with the ground except in rural, unimproved areas where the top of the marker may extend not more than 0.2 foot above the ground surface. NJDEP reserves the right to specify the cap design and marker type or to supply corner markers or monuments in a site-specific engagement RFP.

5A-1.9 Flagging Corners

For each corner marker that is found or set in the field, a witness lath shall be placed within the surveyed property not more than 2 feet from the marker. To aid NJDEP with identification and recovery of corner markers, the lath shall extend above the ground by 2 feet, labeled with the corner number, and three bands of pink surveyor's flagging shall be attached to the lath. This requirement for lath and flagging shall also apply to markers set on an offset to corner or pins set on line except that only one band of flagging is required. This does not apply to random traverse points set in the field, and it is recommended that an alternate flagging color be selected for each purpose. It is strongly recommended that the colors of each type of flagging used for each purpose be communicated to the administering division contact person.

5A-1.10 Setting Line Markers

In addition to corner markers, line markers shall be set when the perimeter of a project area being surveyed and acquired in fee simple or as a public access corridor adjoins private lands not owned by NJDEP in fee or as part of a public access corridor easement. Line markers may be omitted when the adjoining land is being acquired by NJDEP as a part of the same project. Line markers must be set when the adjoining land is owned by an agency other than NJDEP. These provisions shall apply to both fee acquisitions and easement with public access area acquisitions. Additionally, public access easement corridors shall be marked under the same guidelines as a fee acquisition. Line markers shall be set at approximately 250 feet to 300 feet intervals to aid the administering divisions in identifying and locating long property lines in excess of 500 feet between corner markers. Only long lines for which corner markers must be set shall be further marked in this manner. The distances between line markers shall be noted on the plan of survey, stated as a horizontal distance in US Survey Feet to two decimal places. This requirement to set line markers may be modified or waived by NJDEP in a site-specific RFP.

5A-1.10-a Omitting Line Markers

Line markers shall be omitted where the line is within or along the right-of-way line of a public road, or where the line falls within a waterway, water impoundment, or vertical escarpment. Individual line markers may be omitted when the line runs along a physical wall, a fence, or other physical feature, provided that the physical feature is identifiable in the field and the distance to the line can be clearly identified on the plan of survey. Line markers may also be omitted along lines that are common with other lands owned by NJDEP in fee simple or as a public access easement, or lands being acquired by NJDEP as part of the overall project area being surveyed. The New Jersey licensed Professional Land Surveyor may omit line markers on lines that are internal to the perimeter of the survey lines or when this requirement is modified by NJDEP in a site-specific RFP.

5A-1.10-b Acceptable Line Markers

5A-1.10-b.1 Rebar

When used for marking the line, rebar shall consist of minimum 1/2 inch diameter rebar pins, driven to the point of refusal, but shall not less than 24 inches in length. Larger diameters or longer lengths may be necessary to deter vandalism or removal. All rebar pins when set shall contain a standard 3-1/2 inch or 2-1/2 inch bronze or aluminum disk or a plastic cap, any of which are acceptable for line markers when marked with the surveyor's identification. However, plastic caps on rebar are not acceptable for marking corners and not acceptable for marking offsets to inaccessible corners.

5A-1.10-b.2 Durable Fiberglass Post

When a pin and cap are not practical to mark the line, such as through a field or marsh, the perimeter lines may be marked by setting durable orange or white fiberglass posts, Carsonite or similar material, six (6) feet in length. If fiberglass posts are set, the flattest side of the post shall face away from the property being surveyed, to allow for the attachment of signage.

5A-1.10-c Flagging Line Markers

For each line marker that is set (or found in the field within 1.5 feet of line), a witness lath shall be placed within the surveyed property not more than 2 feet from the marker. To aid NJDEP with identification and recovery of corner markers, the lath shall extend above the ground by 2 feet, be labeled as line marker, and one band of pink surveyors flagging shall be attached to the lath. This does not apply to random traverse points set in the field, and it is recommended that an alternate flagging color be selected for that purpose.

5B. RIGHTS OF WAY AND ACCESS

- i. The distance from the appropriate corner or corners of the surveyed property to the nearest right of way line, if the surveyed property does not abut a right of way.
- ii. The name of any street, highway or other public or private way abutting the surveyed property, and the width and location of the traveled way relative to the nearest boundary line of the surveyed property.
- iii. Visible evidence of physical access (such as, but not limited to, curb cuts and driveways) to any abutting streets, highways or other public ways.
- iv. The location and character of vehicular, pedestrian or other forms of access by other than the apparent occupants of the surveyed property to or across the surveyed property, including, but not limited to driveways, alleys, private roads, sidewalks and footpaths observed in the process of conducting the survey.
- v. Without expressing a legal opinion as to ownership or nature, the location and extent of any potentially encroaching driveways, alleys, and other ways of access from adjoining properties onto the surveyed property observed in the process of conducting the survey.
- vi. Where documentation of the width or location of any abutting street, road or highway right of way was not disclosed in Record Documents provided to the surveyor or was not otherwise available from the controlling jurisdiction (see **Section 6A-1.2-iv.** below), the evidence and location of parcel corners recovered which might indicate the width or location of such right of way lines.
- vii. Evidence of access to and from waters adjoining the surveyed property, such as paths, boat slips, launches, piers and docks observed in the process of conducting the survey.

5C. LINES OF POSSESSION, AND IMPROVEMENTS ALONG THE BOUNDARIES

- i. The character and location of evidence of possession or occupation along the perimeter of the surveyed property, both by the occupants of the surveyed property and by adjoining, observed in the process of conducting the survey.

- ii. The character and location of all walls, buildings, fences, and other improvements within five feet of each side of the boundary lines, observed in the process of conducting the survey.
- iii. Without expressing a legal opinion as to the ownership or nature of the potential encroachment, the evidence, location and extent of potentially encroaching structural appurtenances and projections observed in the process of conducting the survey, such as fire escapes, bay windows, windows and doors that open out, flue pipes, stoops, eaves, cornices, areaways, steps, trim, etc., by or onto adjoining property, or onto rights of way, easements or setback lines disclosed in Record Documents provided to the surveyor.

5D. BUILDINGS

Based on the normal standard of care, the location of all buildings on the surveyed property shown perpendicular to the nearest perimeter boundary line(s) and expressed to the appropriate degree of precision.

5E. EASEMENTS AND SERVITUDES

- i. Evidence of any easements or servitudes burdening the surveyed property, disclosed in the Record Documents provided to the surveyor and observed in the process of conducting the survey.
- ii. Evidence of easements or servitudes not disclosed in the Record Documents provided to the surveyor, but observed in the process of conducting the survey, such as those created by roads; rights of way; water courses; ditches; drains; telephone, fiber optic lines, or electric lines; water, sewer, oil or gas pipelines on or across the surveyed property and on adjoining properties if they appear to affect the surveyed property.
- iii. Surface indications of underground easements or servitudes on or across the surveyed property observed in the process of conducting the survey. Locate all utilities existing on or serving the surveyed property as determined by observed evidence together with any evidence from plans obtained from utility companies or provided by NJDEP, and any markings by utility companies and other appropriate sources (with reference as to the source of information).
- iv. Evidence of use of the surveyed property by other than the apparent occupants observed in the process of conducting the survey.
- v. Within conservation areas, show exterior dimensions of all buildings at ground level and square footage of exterior footprints of all buildings at ground level.

5F. CEMETERIES

As accurately as the evidence permits, the location of cemeteries, gravesites, and burial grounds

- i. disclosed in the Record Documents provided to the surveyor, or
- ii. observed in the process of conducting the survey.

5G. WATER FEATURES

- i. The location of springs, together with the location of ponds, lakes, streams, and rivers bordering on or running through the surveyed property, observed during the process of conducting the survey. Wetlands locations are not generally part of Green Acres requirements, except as specified by contract.
- ii. The location of any water boundary on the surveyed property. The attribute(s) of the water feature located (e.g. top of bank, edge of water, high water mark, etc.) should be congruent with the boundary as described in the record description or, in the case of an original survey, in the new description. (See **Section 6A-2.3-f.** below).

6. REPORTS

The report for a Green Acres Survey consists of the plan of survey, the metes and bounds description(s), and the Surveyor's Certification and Summary Form.

6A. PLAN OF SURVEY

The plan of survey is the survey report. A New Jersey licensed Professional Land Surveyor shall be responsible for preparing a plan of survey that serves to identify the results of the land survey and provide the basis for the preparation of a separate legal metes and bounds type description of property which shall not in any way be construed as modifying the apparent intention of the parties. Most special boundary or title situations found in the course of research or used as the basis of the survey may be explained in factual notes that are included on the plan of survey. Some special situations discovered in the course of conducting the survey may necessitate preparation of a separate factual letter for clarification.

The plan is to reflect evidence and locations gathered during the field work as outlined in **Section 5** above.

6A-1 Overview

The survey shall show the following information. Where dimensioning is appropriate, dimensions shall be in accordance with the appropriate standard of care.

6A-1.1 Boundary, Descriptions, Dimensions and Closures

- i. The lines of the survey are to run with the lines indicated in the deeds of the chain of title for the subject property. Survey lines for lots created by a filed map extend to centerlines of paper streets. When no metes and bounds deed description for the subject property exists, the survey may be conducted from adjoining deed information and the plan must be annotated, "*SURVEYED AS IN POSSESSION FROM ADJOINING RECORD DEEDS*". The entire lot shall be surveyed and described by metes and bounds. Any lands to remain to the grantor become an exception to the description of the entire lot. The total area as surveyed is then also subject to other existing conditions, such as paramount public rights in road rights-of-way, public rights in rivers or claims of the State of New Jersey in tidelands as shown on public claims maps, or private access or utility easements found in the course of preparing the survey.
- ii. The location and description of any monuments, lines or other evidence that control the boundaries of the surveyed property or that were otherwise relied upon in establishing or retracing the boundaries of the surveyed property, and the relationship of that evidence to the surveyed boundary. In some cases, this will require notes on the plat or map.
- iii. All distances and directions identified in the record description of the surveyed property (and in the new description, if one was prepared). Where a measured or calculated dimension differs from the record by an amount deemed significant by the surveyor, such dimension shall be shown in addition to, and differentiated from, the corresponding record dimension.
- iv. The directional, distance and curve data necessary to compute a mathematical closure of the surveyed boundary. A note if the record description does not mathematically close. The basis of bearings shall be in accordance with **Section 3A-ii**.
- v. The remainder of any recorded lot or existing parcel, when the surveyed property is composed of only a portion of such lot or parcel, shall be graphically depicted. Such remainder does not need to be included as part of the actual survey, except to the extent necessary to locate the lines and corners of the surveyed property, and it need not be fully dimensioned or drawn at the same scale as the surveyed property.
- vi. A note on the face of the plat or map explaining the site conditions that resulted in a Relative Positional Precision that exceeds the maximum allowed under **Section 3E-v** of these standards.
- vii. A note on the face of the plat or map identifying the title commitment/policy number, effective date and name of the insurer for any title work provided to the surveyor.

6A-1.2 Easements, Servitudes, Rights of Way, Access and Record Documents

- i. The width and recording information of all plottable rights of way, easements and servitudes (both public and private) burdening and benefiting the property surveyed, as evidenced by Record Documents that have been provided to or researched by the surveyor.
- ii. A note regarding any right of way, easement or servitude evidenced by a Record Document either provided to or researched by the surveyor (a) the location of which cannot be determined from the record document, or (b) of which there was no observed evidence at the time of the survey, or (c) that is a blanket easement, or (d) that is not on, or does not touch, the surveyed property, or (e) that limits access to an otherwise abutting right of way, or (f) in cases where the surveyed property is composed of multiple parcels, which of such parcels the various rights of way, easements, and servitudes cross.
- iii. A note if no physical access to a public way was observed in the process of conducting the survey.
- iv. The width of abutting rights of way and the source of such information (a) where available from the controlling jurisdiction or (b) where disclosed in Record Documents provided to the surveyor. Identify location and geometry of proposed changes in street right of way lines and ultimate right of way width, if information is available from the controlling jurisdiction.
- v. The identifying titles of all recorded plats, filed maps, right of way maps, or similar documents which the survey represents, wholly or in part, with their recording or filing data.
- vi. For non-platted adjoining land, names and recording data identifying adjoining owners according to current public records. For platted adjoining land, this same information is required due to the possibility of changes since the plat's recordation, although name and recording information of the subdivision plat may also be supplied.

6A-2 Survey Plan Presentation - General

The items in this section shall appear on every plan presented to Green Acres, whether for State land acquisition or Local Unit/Nonprofit land acquisition.

- i. The plat or map shall be drawn on a sheet of not less than 8 ½ by 11 inches in size (see **Section 6A-3.1**) at a legible, standard engineering scale, with that scale clearly indicated in words or numbers and with a graphic scale. When recordation or filing of a plat or map is required by law, such plat or map shall be produced in recordable form. The boundary of the surveyed property drawn in a manner that distinguishes it from other lines on the plat or map. A north arrow (with north to the top of the drawing when practicable – see **Section 6A-3.3**), a legend of symbols and abbreviations, and a vicinity or location map showing the property in reference to nearby highway(s) or major street intersection(s) (see **Section 6A-3.4**)
- ii. Supplementary or detail diagrams when necessary.
- iii. Show any permanent buildings, paved or concrete improvements, structures or foundation. In particular residences are to be identified and labeled in coordination with NJDEP. If there are no visible buildings on the surveyed property, a note stating “No buildings existing on the surveyed property” shall appear on the face on the survey.
- iv. The surveyor's project number (if any), and the name, registration or license number, signature, seal, street address, telephone number, and email address of the surveyor who performed the survey. The date(s) of any revisions made by said surveyor.
- v. Sheet numbers where the plat or map is composed of more than one sheet.
- vi. The title of the survey plan shall include the tax block(s) and lot(s), municipality, and county in which the property is located (see **Section 6A-3.2**)

New Jersey Map Filing Law

Surveys prepared for the acquisition of land in fee or easement with funding provided under the Green Acres Program shall be presented to the county recording officer for filing on behalf of NJDEP by the Contractor within 30 days of notification by NJDEP that the property has been acquired. Since all surveying, mapping, and certification requirements of the Green Acres Guidelines for Land Surveys are

substantially in accordance with the New Jersey Map Filing Law NJSA 46:23-9.9), only the New Jersey Professional Land Surveyor's certification and certification by the municipal clerk relative to planning board or zoning board views or approvals shall be required pursuant to the New Jersey Map Filing Law, unless this requirement is waived or modified by NJDEP.

6A-2.1 Plan Size

The full-size final Mylar and paper copies of the survey plan shall be either 30 inches by 42 inches or 24 inches by 36 inches, as provided by the New Jersey Map Filing Law. Smaller sizes are not acceptable due to loss of legibility when reduced to 8-1/2" by 11" for attachment to and recordation of the Deed Descriptions. Prior to submittal to NJDEP, all paper copies of the survey plan shall be folded to a size of approximately 8-1/2 inches by 11 inches, with the Standard Title Block facing up. Unfolded paper copies of the survey plan are not acceptable. The full-size reproducible Mylar of the survey plan shall be rolled and submitted without any creases. The reduced survey plan attached to each metes and bounds description shall be no smaller than 8 ½ inches by 11 inches from cut edge to cut edge and include all of the image of the original survey plan, including border lines. If it becomes necessary to produce a booklet type plan of the area surveyed, the first sheet or cover sheet of any such booklet must be an index to show alignment with the remaining sheets of the survey. Each sheet must contain the required elements of the survey such as title block, north arrow, signature and seal, Legend of Acquisition, etc.

6A-2.2 Title Block

The New Jersey licensed Professional Land Surveyor is responsible for providing a standard title block as required by rules of the State Board of Professional Engineers and Land Surveyors. In addition to the elements required by the State Board of Professional Engineers and Land Surveyors, all title blocks shall include the telephone number of the firm and an email address. Surveyed parcels shall be identified in the title block by tax lot, tax block, municipality, and county. It is possible that information included in the title block regarding the identity of parcels surveyed will be duplicated in the Legend of Acquisition, but this does not preclude the necessity for presenting it in both locations.

6A-2.3 Orientation

Survey information and the graphic depiction of the parcel on the plan shall be drawn so that north points generally upward or to the left when viewing the plan in a landscape view, or generally upward or to the right when viewing the plan in a portrait view.

6A-2.4 Location Map

A location map shall be provided in the upper right hand corner of the plan. The perimeter of survey shall be drawn on the location map and an arrow shall indicate the site. A portion of a USGS Quadrangle Map (1 inch equals 2000 feet, 1:24,000 scale) is preferred. State the name of the quad and provide the scale and graphic north arrow. The orientation of this location or key map is to be the same as the orientation of the body of the survey map.

6A-2.5 Scale

Clarity of information will determine the actual scale of the plan. Standard engineering scales in feet in increments of 10 feet between 10 feet and 100 feet increments of 100 feet between 100 feet and 500 feet are required, unless an alternate scale is requested in the site-specific RFP or by NJDEP. A graphic or bar scale of the overall plan shall be drawn on the plan. (This is imperative due to inclusion of reduced survey copies with the recorded deeds.) An enlargement detail may be drawn to an alternate scale from the overall plan but a detail drawn to show encroachment or marker dimensions relative to the survey line is not required to be drawn to scale. Enlargement details are recommended in many instances to show relationships of calculated corners to evidence found.

6A-2.6 Line Weight and Type

The New Jersey licensed Professional Land Surveyor is responsible for presenting all of the findings on the final survey plan in a clear, concise manner. The perimeter survey lines shall be the predominant line weight of the main drawing. Solid lines are preferred.

6A-2.7 Point of Beginning

The point of beginning used in the metes and bounds description must be clearly labeled on the plan as "Description Point of Beginning" or "P.O.B." or similar notation, and must be tied into a corner of record or road intersection. The NJPCS NAD 1983 Northing and Easting grid coordinate values stated in US Survey Feet to two decimal places must be labeled on the plan and stated in the description. The surveyor shall set a monument at the point of beginning for each parcel, unless that point is already marked on the ground or if physical impossibility, such as falling in a water body, requires setting of an offset monument. In the latter situation, it is preferable to select a different corner as the point of beginning.

6A-2.8 Clockwise Bearings

Bearings shall be drawn on the map so that the corresponding metes and bounds description of the parcel will read in a clockwise fashion. Bearings may have to be indicated in both forward and reverse directions on the plan of survey, with a small arrow to show the direction that the bearing runs, to provide both quadrants when needed for the description.

6A-2.9 Line and Curve Tables

Line and Curve Tables are confusing and difficult for lay persons to use and understand, and are therefore discouraged. Line and Curve Tables are not acceptable alternatives to labeling line and curve data directly on the drawn lines, unless specifically authorized by NJDEP.

6A-2.10 Coordinate Tables

To assist in the use of GPS technology in recovering markers found and verifying markers set on the actual corners of the surveyed site, provide a "**Table of Ground Coordinates for Corner Markers**" on the plan. The coordinate values presented are not to be construed as replacing the superior value of the found or set markers in identifying property boundaries.

All markers found on the property corners shall be included. Although close enough by these specifications to satisfy the need for marking a corner, markers found within 1.5 feet of the property corner but not on the actual corner need not be included in this table. Coordinate values for property corners either not marked or marked within 1.5 feet shall not be listed in this table. Offset markers set on line (as in situations involving water boundaries) shall be included in the table.

This table shall contain the following information:

- The number of each corner or corner offset marker (being the owner ID#; with the Point of Beginning being Corner No. 1 and subsequent corners numbered clockwise therefrom)
- The type of mark (such as concrete monument, cross cut in stone, or capped pin)
- The NJSPCS Northing and Easting values of the **ground coordinate**
- The NJSPCS Northing and Easting values of the **grid coordinate** (only in those regions of NJ where, due to higher elevations, there are significant variations from Ground Coordinate values)
- The **geographic coordinate** (in *dd mm ss.s* format).

Labels of coordinate values for line markers that do not constitute mandatory offsets for property corners may be added to the body of the plan but are not required.

6A-2.11 Significant figures

Bearings shall be rounded to whole seconds of arc. Distances in US Survey Feet for survey courses shall be rounded to two decimal places. NJSPCS Coordinate Values in US Survey Feet shall be rounded to two decimal places. Areas of closed survey polygons shall be stated in acres and rounded to three decimal places. Square footage shall be rounded to the whole square foot but is only to be provided if the calculated area is less than 50 square feet or the survey is in an area of extremely high property values. If the latter, provide square feet and acres for area.

6A-2.12 Mathematical Closure

All property surveys must form closed polygons with all sides defined by mathematical survey expressions being bearings and distances on all straight line segments and tie lines: radius, arc length, delta, chord bearing and chord distance on all curved lines. General calls along roads or waterways are unacceptable without a tie line and are only permitted for existing deed calls or if specifically required in a site-specific engagement specified by NJDEP. Tie lines are to be provided along waterways, and riparian claim lines.

6A-2.13 Mathematical Survey Expressions

The New Jersey licensed Professional Land Surveyor is responsible for defining all courses of the parcel being surveyed by mathematical survey expressions. All straight-line courses will be defined by bearings and distances with angular units stated in degrees, minutes and whole seconds of arc. Curves will be defined by radius, arc length, chord bearing and chord length, and the horizontal distances, radii of curves or lengths of arc must be stated in US Survey Feet to two decimal places.

6A-2.14 Area

The areas calculated in association with the parcel land survey shall be stated in acres and rounded to three decimal places unless the parcel is bounded, all or in part, by a waterway or a Tidelands Claim of the State of New Jersey. In such cases, the area shall be given to one decimal place (0.1 acre). If the entire parcel is less than one (1) acre, the area shall be stated in square feet as well as acres. If the surveyed area is less than 50 square feet, then the area is to be stated in square feet only and rounded to the nearest square foot. If the survey is in an area of extremely high property values, provide both square feet and acreage. Consult NJDEP for guidance in any site-specific engagement. Gross area shall be reported separately for each tax parcel or portion of tax parcel included in the survey.

6A-2.15 Legend of Acquisition

In addition to the surveyor's standard title block, all plans shall contain a Legend of Acquisition that provides the project number, funding source, Project Name, acquisition partner, seller name and ID#, municipality, county, list of each individual tax block and lot surveyed, type and percentage of interest being obtained in each individual lot, an Area Summary combining information about all surveyed and acquired lots, etc. See **Sample Forms 5A and 5B – Legend of Acquisition Blocks** for State and Local Unit/Nonprofit land acquisitions.

6A-2.16 Plan Certification

See **Section 7 – Certification**.

6A-2.17 Corner Marking and Line Marking

All corner marking shall be made in accordance with "Corner Marking and Line Marking" as set forth in **Section 5A-1** And shown on the survey plan. Detailed enlargements made to show a corner marker set or the relationships between any markers found and the actual calculated survey corner shall include all information shown on the full-scale plan. It is not necessary to indicate witness lath in the detail. Cap labels (surveyor, firm, license number) shall be identified on the plan for all such found corner markers, as well as referenced in the accompanying description prepared by the New Jersey licensed Professional Land Surveyor.

6A-2.18 Encroachments

All encroachments shall be clearly drawn, labeled and dimensioned to the property line. A detailed enlargement of any encroachment may be necessary to clearly show sheds, buildings, decks, or other structures or areas of adverse use such as stone parking areas or areas of mowed lawn. Encroachments must be brought to the attention of NJDEP prior to finalizing the plan of survey and metes and bounds description of property, as the interest in the area may be reduced to leave the area of encroachment with the seller.

6A-2.19 Property identification

6A-2.19-a Street address of the subject parcel being surveyed only if the municipality has assigned a common street number;

6A-2.19-b Tax Block and Lot number of the parcel being surveyed, and those of adjoiners; Note: If the survey findings indicate that the tax map is erroneous, so state. If a lot is not shown on the map, the lot shall be designated on the survey plan with the correct block number from the tax map and shall be identified as "*NO LOT NUMBER ASSIGNED*". Note discrepancies from tax map, such as errors in municipal tax map linework or mislocation of the parcel.

6A-2.19-c The deed book and page number of the reference deeds actually used must be indicated in the graphic portion of the plan to which they apply, rather than in a separate table. This information shall not be excluded or limited in appearance through the use of notes, except that the surveyor may limit his or her search of records to the obvious and reasonable (after consultation with NJDEP), and may produce a plan noting that the work is subject to the findings of an accurate and up-to-date title search by a competent title company. This note shall not appear if the title report has been supplied to the New Jersey licensed Professional Land Surveyor by NJDEP prior to delivery of the final plans.

6A-2.19-d Provide the name of record owners and the latest deed book and page reference for adjoining lands to indicate that those records had been examined in the survey process and that there are no areas of confusion in the record, except for those that may be shown on the plan, if any. Adjoining owner names and deed references are to be shown directly on the graphic portion of the plan to which they apply, rather than in a separate table.

6A-3 Survey Plan Presentation – Detailed Instructions

This section contains information that may not be applicable to all surveys.

6A-3.1 Roads

The New Jersey licensed Professional Land Surveyor is responsible for preparing a survey and corresponding metes and bounds description, which cannot in any way be construed as modifying the apparent intention of the parties. Road rights-of-way and the principles of dedication of land for road purposes shall not be taken lightly by the surveyor. The lines of surveys prepared for the acquisition of land are to run with the lines of the deed description as written in the record, unless the site-specific engagement request directs some other course of action. If the fee title extends to the center of a public road, the survey lines should run to the center of the public road. The survey must also provide the bearings and distances of the right-of-way sidelines, as well as the area of the public right-of-way. The area in the right-of-way is subject to the paramount rights of the public and possible private rights and the area shall be stated as a separate item on both the plan and in the description. If there has been no dedication to define the sidelines of the right-of-way, the area of the right-of-way is defined as the area of the paved or traveled portion of the road bed. Proposed changes in street right-of-way lines shall also be noted on the plan, based on information from the controlling jurisdiction. The future and ultimate right-of-way width shall be the limit of Green Acres funding, participation, and encumbrance on Local Unit/Nonprofit land acquisitions, and shall be monumented as such. For State land acquisitions, the future and ultimate right-of-way width merely defines the limit of assessed value, although the State will take title to the entire tract.

Private roads crossing the parcel being surveyed must also be shown on the survey and mentioned in the description. The survey must indicate recording information for maps, deed book number and page number, or other pertinent information regarding the dedication of public ways or private easements.

Roads that are not open are to be so indicated. Paper streets that have not been formally vacated are subject to possible public and/or private rights, and the area contained by them must be indicated on the plan.

6A-3.2 Utilities and other facilities

6A-3.2-a Any utility easements, visible or known of record, overhead wires or pole lines within the parcel being surveyed must be identified and shown on the plan of survey. If such easements are within the lines of a dedicated public road right-of-way, they may be omitted;

6A-3.2-b Bridge and culvert easements are considered to be part of the public right-of-way in which Green Acres does not participate. They are to be dimensioned, their areas calculated, their corners marked where appropriate as limits to Green Acres participation, and referenced in the description as exceptions from Green Acres encumbrance.

6A-3.2-c Show all drains and sewers that are visible on the surface of and within the limits of the parcel. Drains and sewers within a dedicated public road right-of-way need not be shown.

6A-3.3 Areas of Claim of Tidelands Ownership by State of New Jersey

The New Jersey licensed Professional Land Surveyor is responsible for obtaining the official state maps showing riparian claims of the State of New Jersey and reproducing these claim lines on the survey plan. The area of the New Jersey claim is to be stated in acres to one-tenth acre (0.1 acre). The sources to be used will be maps entitled "Lands Subject To Investigation for Areas Now Or Formerly Below Mean High Water", which have been filed in the office of the county recorder or clerk. Contact the Land Use Regulation Program for further information.

6A-3.4 Waterways and Watercourses

Waterways and water courses, including the name and showing the direction of flow and area contained within the bed must be drawn and labeled on the plan. Note if water is tidal and/or navigable. Otherwise show the flow direction of non-tidal bodies of water.

When the boundary is a waterway, a note shall be placed on the face of the plat or map noting the date the boundary was measured, which attribute(s) of the water feature was/were located, and the caveat that the boundary is subject to change due to natural causes and that it may or may not represent the actual location of the limit of title. When the surveyor is aware of natural or artificial realignments or changes in such boundaries, the extent of those changes and facts shall be shown or explained.

Provide mathematical tie lines where the boundary follows a general call along a meandering water line. If the survey follows a Mean High or Low Water Line, the surveyor must state on the plan the date and time of that the survey data had been collected. The terms "trash-line" and "debris line" are neither appropriate nor acceptable survey terms. The tie lines may be eliminated from the plan when the water line is physically surveyed and defined by bearings and straight line distances that are indicated on the plan. Do not provide a line table. It is also not advisable to calculate curves along waterways.

6A-3.5 Aerial Photographs and Planimetric Mapping

Rectified orthophotography, photogrammetric mapping, airborne/mobile laser scanning and other similar products, tools or technologies may be used as the basis for the showing the location of certain features (excluding boundaries) where ground measurements are not otherwise necessary to locate those features to an appropriate and acceptable accuracy relative to a nearby boundary. The surveyor shall place a note on the face of the survey explaining the source, date, precision and other relevant qualifications of any such data. An Aerial Information block shall be placed on the plan whenever aerial data has been used. See **Sample Form 4 – Aerial Photo Information Block**.

Aerial photographs or planimetric maps or manuscripts, when used to locate physical features upon the survey plan, will be georeferenced to NJPCS NAD 83, planimetrically depicted in conformance with National Map Accuracy Standards, and be current to within two (2) years of the date of the survey plan, unless the imagery is obtained from NJDEP. In all cases, features must be field verified to the date of the current field work.

6A-3.6 Subdivision of Lands

The State of New Jersey and, as an extension thereof, any state Using Agencies are exempted from municipal subdivision ordinances. Other entities, such as municipal, county, or non-profit groups operating under the Green Acres Program or county agricultural programs that may be using this Scope

of Work for Professional Surveying Services, may not be exempted, and municipal subdivision laws would apply and supersede these provisions. The interest to be acquired in an entire lot is known as an Entire Acquisition in Fee or E/A Fee and the interest to be acquired in a portion of a tax lot is known as a Partial Acquisition in Fee or P/A Fee. This subsection applies to Partial Acquisitions in Fee.

A subdivision, known as partial acquisition, shall be effectuated by surveying and describing the entire property and tax lots of the seller, then excepting out, by a metes and bounds description of the exception, all lands that are to remain to the seller. Monuments shall be set on corners of new lines, and line markers shall be set on new lines that are 500 feet or longer. Monuments set for corners shall be called for in the exception description. Severance lines shall project to the limits of the deed and may extend into public road rights-of-way. For this reason, any site-specific engagement RFP that specifies an exact acreage to remain with the seller shall be presumed to be exclusive of any fee interest in an adjoining public right-of-way that is included in the exception area.

The bearings and distances of the dividing line must be shown on the plan. The plan shall not be labeled to suggest that any lots will be consolidated or lot lines will be removed or to suggest proposed lot numbering, which shall remain a function of the municipal government in which the parcel is located. The integrity of the original lot shall be maintained by using terms such as "Part of Lot ___", "Area to be Acquired", and "Area of Exception to Remain". This terminology shall be clearly labeled on the plan. The plan shall include the area tabulation on the graphic portion of the plan and in the Area Summary of the Legend of Acquisition, including the percentage of each portion of lot being acquired rounded to two decimal places. This requirement may be modified by NJDEP in a site-specific engagement RFP.

6 B DEED DESCRIPTION

6B-1 Deed Description Format

The metes and bounds description with reduced plan attached shall be inserted into the deed document by the seller's attorney without being retyped so that each description shall be written from the perspective of NJDEP as purchaser, in accordance with the following:

6B-2 Deed Description Type

The New Jersey licensed Professional Land Surveyor is responsible for preparing a separate metes and bounds type description of property pursuant to the survey of the property and with reference to the information contained on the plan of survey. This description is to agree with the results of the survey from which it written in every particular, and for this reason, the description shall not include any information that does not appear graphically or in a factual note on the survey plan. The metes and bounds description shall not be produced on the plan of survey but shall consist of a separate document. A copy of the survey plan reduced in size to 8-1/2 inches by 11 inches shall be stapled to the back of each copy of the description for recording. A separate metes and bounds description document shall be prepared by the New Jersey licensed Professional Land Surveyor for each fee acquisition area as defined by the survey. One description may include several contiguous lots in common ownership grouped together into one or more survey tracts, but the area of each tax lot shall be stated in addition to the total area contained at the end of the description. A separate metes and bounds description document shall be prepared by the New Jersey licensed Professional Land Surveyor for recording in a deed of easement if, in addition to a fee area of acquisition, there is also an easement acquisition area as defined by the survey.

6B-3 Letterhead of Survey Firm

The New Jersey licensed Professional Land Surveyor shall prepare an original metes and bounds type description of property, separate and apart from the prepared final plan of survey. The first page shall be submitted on an original company letterhead 8 inches by 11 or 14 inches. The letterhead must contain the name of the survey firm, mailing address and street address (if different), and telephone, fax, and email address of the company. Subsequent sheets shall not be letterhead, but may be plain paper or preprinted at the bottom with the name of the survey firm, mailing address and street address (if different), and telephone, fax, and email address of the company. Left edge lined legal paper shall not be used.

6B-4 Description Heading

Each new metes and bounds description shall contain an appropriate heading and reference information. Use the term "Deed Description" for all metes and bounds descriptions prepared under the scope of work. The Contractor shall use the qualifying supplemental terms "Conservation Easement Area", "Public Access Easement Area", "Encroachment Area", "Gore Area", "Overlap Area", or "Exception Area" as appropriate. .

All headings shall appear centered at the top of the page, but below any company logo, address, or name. The use of the term "Deed Description" without a qualifier shall be understood to represent the metes and bounds description of a property being acquired in fee simple. The heading and reference information shall be substantially in accordance with the following:

DEED DESCRIPTION (add qualifying statement such as
CONSERVATION EASEMENT or **PUBLIC ACCESS EASEMENT** or other term as appropriate)

(project number – project name – Green Acres Survey Ref. #, if any)

Lands N/F (Purported owner) Owner ID#____
(Date)

(Block____, Lot____)
(Municipality)

(Street address)
(County)

6B-5 Description Introduction

The first paragraph of the metes and bounds description shall be written as follows:

All that certain tract or parcel of land located (at, on or along street address) in the (City, Borough, Town, or Township) of _____, County of _____, New Jersey, bounded and described as follows:

6B-6 Description Second Paragraph

The second paragraph shall be used to describe the point of commencement, if any is used, that leads to the description beginning point. The description point of beginning shall be tied in to a record corner or intersection and is generally a found undisturbed or set monument, including its New Jersey Plane Coordinates (NAD 1983) Grid Coordinate value in US Survey Feet to two decimal places. The description shall state that the bearings that follow are NJSPCS NAD 83.

6B-7 Body of Description

The description shall be written with courses running clockwise from the point of beginning. Each course shall be a new paragraph and shall be numbered, with a line space between each such course/paragraph. No information shall be provided in the description that does not appear graphically or appear in a factual note form on the plan. The description need not provide the New Jersey State Plane Coordinate System values of corners other than the point of beginning, as they are not intended to control the boundary corners.

References to nearby markers and passing calls assist in the recovery of property lines and corners. Whenever a called-for point is a marked corner, the description shall make reference to the type of marker found or set, without changing the intention of prior records. As an example, the call "**to a point**" should include language such as "*now evidenced by a concrete monument set*", "*to a point now evidenced by a one*

inch diameter pipe found, *“to a point near a capped iron pin found”*, *“passing over a capped iron pin set 50.00 feet from the origin of this line”*, etc.. Of course, original called-for markers shall still be called for in the description. An example is a call *“to a concrete monument set”* is now *“to a concrete monument found.”* The description shall include reference to the Corner Number for corner markers that have been set. Cap labels (surveyor, firm, license number) shall be referenced for all such found corner markers.

6B-8 Using Augmenting and Qualifying Clauses

The surveyor is reminded that each description is to be prepared for use in a deed document from the perspective of NJDEP. An easement that benefits the parcel being surveyed but is located on an adjoining property shall be included in the description using the phrase **“together with”** such easement and describing its location and utility.

Another example of an augmenting clause to be included in the description if appropriate is if the State of New Jersey had issued a Tidelands Grant and rights associated with the grant are to pass with the parcel being surveyed. This situation would necessitate using the augmenting clause **“together with”** and continuing with the qualifying clause, such as **“and subject to the terms of Tidelands grant”**, etc.

An easement located upon the parcel being surveyed that benefits an adjoiner shall be mentioned in a qualifying clause in the description using the phrase **“subject to”** such easement, describing its location and utility, and in certain instances, the area shall also be stated.

Qualifying clauses shall also include the area in acres when the parcel being acquired is subject to public rights in a road right-of-way, subject to public rights in a navigable waterway such as a river, subject to a Tidelands Claim of the State of New Jersey, or subject to an overlap of deed description with an adjoining parcel. Such areas shall further be described with metes and bounds following the qualifying clause.

A minor deed gore area may be included in a conveyance by inserting in the deed an augmenting clause of quit claim attached to the surveyor’s description at the request of NJDEP. A deed gore area that is of significance shall be described in a separate metes and bounds description prepared by the New Jersey licensed Professional Land Surveyor.

6B-9 Recite Areas Described

The metes and bounds description shall contain a paragraph that recites the total area contained within the metes and bounds description, then specifies the area of each included tax lot. This paragraph shall precede any exception description or any augmenting or qualifying clauses. Exception descriptions shall also contain a paragraph as to the total area of described exception, further specifying the area of each included portion of tax lot.

The total net area and individual net area of each included tax lot shall be restated following an exception description or qualifying clause of paramount public rights, deed overlaps, or Tidelands Claims of the State of New Jersey.

6B-10 Closing Paragraph and Call for Survey

To provide a uniform closing of all metes and bounds descriptions, the final paragraph shall contain the following language:

The above description was written pursuant to a survey of property designated as Block _____, Lot _____, on the municipal tax map of (_____ *municipality name* _____), County of (_____ *county name* _____), State of New Jersey. Said survey was prepared by (_____ *your firm’s name and address* _____), (_____ *date* _____), revised through (_____ *last revision date, if any* _____) and is marked as file No. _____. A reduced copy of said plan is attached hereto and made a part hereof.

6B-11 Original Signature, Embossed Seal and Date Signed

Each separate metes and bounds description shall bear the date, original ink signature and embossed seal of the surveyor who prepared the survey plan. A rubber stamp facsimile, mechanically reproduced, or computer generated signature is not acceptable.

8. DELIVERABLES

All deliverables must be received by NJDEP within the time specified in the Engagement Award and before the passing of the Due Date. The surveyor shall furnish copies of the plat or map of survey to NJDEP, and as otherwise negotiated with NJDEP. Hard copies shall be on durable and dimensionally stable material of a quality standard acceptable to NJDEP. Digital copies of the plat or map may be provided in addition to, or in lieu of, hard copies in accordance with the terms of the contract. When required by law or requested by NJDEP, the plat or map shall be produced in recordable form and recorded or filed in the appropriate office or with the appropriate agency.

All original type Mylars and all paper copies of full size survey plans (not reduced plans) and all metes and bounds descriptions shall be signed and sealed by the New Jersey licensed Professional Land Surveyor who is responsible for the preparation of the field survey, the survey plan, and the metes and bounds descriptions. To assure that the products are those of the licensee, the signature must be handwritten in ink on each original and paper copy of the plan of survey and on each metes and bounds description. Rubber stamp signatures or computer-generated signatures are unacceptable.

The New Jersey licensed Professional Land Surveyor is responsible for submitting all deliverable work products on or before the date specified in a site-specific engagement to NJDEP or to such other location or entity as may be specified in the site-specific RFP. As appropriate for the type of survey ordered, the deliverables shall include all of the following or such other items as may be directed in the site-specific RFP. For checklists of required deliverables, see **Sample Form 7A** for State land acquisitions and **Sample Form 7B** for Local Unit/Nonprofit land acquisitions, in **Section 10** of this document.

8.1 Copies of Notifications

Copies of all written notices that were originally prepared on company letterhead and sent to the administering division, property owners or designated representatives and occupants, if any, the municipal police department, adjacent property owners upon whose land it may have been necessary to enter to complete the survey: Relevant Sample Forms, required for State land acquisitions unless otherwise specified in the contract and not generally required for Local Unit/Nonprofit land acquisitions unless specified in the contract, are in **Section 10** of this document.

8.1.1 DIVISION FAX NOTIFICATION - see Sample Form 2 – Agency Fax Notification

8.1.2 PROPERTY OWNER NOTIFICATION – see Sample Form 3 – Notification of Entry Letter

8.1.3 POLICE DEPARTMENT NOTIFICATION – see Sample Form 3 – Notification of Entry Letter

8.1.4 ADJOINER NOTIFICATION – see Sample Form 3 – Notification of Entry Letter

8.1.5 MISC. NOTIFICATION (UTILITY, ETC.) – see Sample Form 3 – Notification of Entry Letter

8.2 Copies of Written Consent

Copies of any written consent obtained from adjacent property owners or NJDEP to cut brush lines or large trees, if necessary.

8.2.1 ADJOINER CONSENT TO CUT BRUSH OR TREES

8.2.2 USING AGENCY CONSENT TO CUT TREES

8.3 Traverse Closure

Provide a computer printout of the coordinate geometry COGO survey data files to demonstrate that the mathematical survey expressions used to define the parcel as used on the plan and in the description of the property form a closed polygon and to verify that the areas as stated are correct. The precision of the survey must be stated and the bearing and distance of the radial error of closure of the adjusted survey distance from the terminus of the final course to the point of beginning must be given. Traverse closure routine printouts are required for the perimeter of each surveyed area defined by lines of the survey as a check that the bearings and distances as shown on the survey form a closed traverse and the stated area is correct.

8.4 Full-size Paper Copies of Survey Plan

For each acquisition partner identified in the State land acquisition site-specific RFP, submit fifteen (15) signed, sealed, and dated paper copies of the survey plan depicting the results of the field and record investigation to NJDEP, prior to the due date for the site-specific engagement. (Generally only two copies are required for Local Unit/Nonprofit land acquisitions, one for Green Acres and one for the Local Unit/Nonprofit. One additional copy is required for each additional acquisition or funding partner.) Prior to submittal, these plans shall be folded to approximately 8 1 / 2 inches by 14 inches legal size with the title block or Legend of Acquisition facing up. Plans not bearing original signature or not folded prior to submission are unacceptable.

8.5 Full-size Mylar Survey Plan

For each acquisition partner identified in the State land acquisition site-specific Engagement, submit one 1 full size original type Mylar of the survey plan prior to the due date for the site-specific engagement. This plan shall be rolled and submitted to NJDEP. Additional plans suitable for filing shall be presented to the County Clerk's Office on behalf of Using Agency. (Mylar copies are not required for Local Unit/Nonprofit land acquisitions unless specifically requested.)

8.6 Metes and Bound Description and Reduced Survey Plan

For each acquisition partner that is identified in the State land acquisition site-specific RFP, submit fifteen (15) original quality metes and bounds descriptions corresponding to and derived from the plan of survey. (Generally only two copies are required for Local Unit/Nonprofit land acquisitions, one for Green Acres and one for the Local Unit/Nonprofit. One additional copy is required for each additional acquisition or funding partner.) Each description shall be signed and sealed as prescribed.

Prior to submittal, there shall be stapled to the back of each description a photographically reduced copy of the survey plan, reproduced onto paper stock. This reduced plan must be a true reduction of the original plan as submitted and shall not be altered from the full sized plan to provide clarity of data. This reduced plan may be signed by the New Jersey licensed Professional Land Surveyor prior to reduction but shall not be sealed, to minimize further distortion when recording. The reduced survey plan shall be attached by a single staple in the upper left-hand corner of the description packet, with the title block of the reduced plan being located near the bottom when viewed in a portrait orientation.

8.7 Digital Files

This section applies to both State and Local Unit/Nonprofit land acquisitions. Submit media storage devices, either standard 5.25 inch CD-R or Mini CD-R compact disks produced to be read by any CD-ROM. This media shall contain four (4) files that are not zipped or compressed in any way. Digital files are required for both State and Local Unit/Nonprofit land acquisitions.

Label the CDs with the name and File ID of the Property Owner, the Project Name and Number, Municipal Tax Block and Lot numbers, the Municipality and County, the Name of the Survey Firm, the Date of Survey, and Survey Reference Number.

8.7- 1 - One file shall be the exact text of each metes and bounds description prepared for the site-specific engagement. The format shall be MS Word 2003 file in .doc format or other text file extension format that may be acceptable to NJDEP.

8.7- 2 - One file shall be a digital file in AutoCAD .dwg format containing the full survey drawing. This drawing must be created at its real New Jersey State Plane Coordinates NAD 1983 position and the view shall be unrotated from the coordinate system so that the NJPCS NORTH points orthographically vertical in the screen. The file shall contain only a representation of the final drawing and shall not contain preliminary or working files.

8.7-3 - One file shall be a digital file in .pdf format containing the full survey drawing, including text. This drawing need not be created at its real New Jersey State Plane Coordinates NAD 1983.

8.7- 4 - One file shall be a .dxf format single layer digital drawing containing the closed line polygon of the perimeter survey lines and certain other lines that are internal to the survey. Specifically, internal lines shall include: public road or other public right-of-way lines; bridge or culvert easements (which are de facto road right-of-way not funded by Green Acres); survey exception area lines; new survey tract lines created by this survey; funding participation limit lines (such as by Green Acres or Environmental Infrastructure Funding Program); internal navigable or tidal water edge or mean high water lines; survey tie lines; New Jersey Tidelands Claims lines (actual State ownership); clouded title lines; overlapping deed lines from adjoiner deeds; internal lot lines; and limit lines of new conservation or public access easements being created by this project of NJDEP.

This file shall not be a complete drawing file of the survey and shall contain no text. This file shall be created at its real New Jersey Plane Coordinates NAD 1983 position and the view shall be unrotated from the coordinate system so that the NJPCS NORTH points orthographically vertical in the screen. The polygon shall be created from the coordinate geometry of its survey point of beginning through the final course of survey and terminus point. The file shall contain only a representation of the final drawing and shall not contain preliminary or working files.

To provide a uniform method of closure without degrading the quality of bearings used, enter the radial error of closure as a final closing arc between the survey point of beginning and the survey point of ending. Add this additional course by inverting from the point of ending to the point beginning as a final course.

8.8 Surveyor's Certification and Summary Form

Submit one copy of the Surveyor's Certification and Summary Form, which shall be completed, signed and sealed by the New Jersey licensed Professional Land Surveyor who prepared or was in responsible charge for completion of the survey, survey plan, and property descriptions.

See [Sample Form 6A](#) – Surveyor's Certification and Summary Form (State Project)

See [Sample Form 6B](#) – Surveyor's Certification and Summary Form (Local Unit/Nonprofit Project)

8.9 Checklist of Work Completed, Detail Sheet and Tax map

Submit one (1) checklist, signed by the New Jersey licensed Professional Land Surveyor who prepared or was in responsible charge for completion of the survey, survey plan, and property description(s) to assure that the specified items have been completed and that all deliverables are submitted. Attach a copy of the Detail Sheet and copy of the tax map originally provided by NJDEP when the site-specific engagement RFP was solicited.

See [Sample Form 7A](#) – Checklist of Work Completed (State Project)

See [Sample Form 7B](#) – Checklist of Work Completed (Local Unit/Nonprofit Project)

8.10 Corner Marker Description Sheets

A Corner Marker Description Sheet for each corner marker that has been set under the site-specific engagement award. The sheet shall include the corner number, character of mark, project information, seller information, location of mark, and information regarding the firm that set the marker. The sheet shall include a cap detail, a sketch showing proximity to field witness marks, and a photograph of the mark identifying direction of view. These sheets are only required for those corners and markers identified in the Coordinate Table (see **Section 6A-2.10**).

9. DEFINITIONS

The following definitions shall be part of any site-specific engagement awarded or order placed with prequalified vendors or in connection with prequalification.

Corner Marker Description Sheet – A form used to identify corner markers set for a site-specific engagement. Use of this form is only required if specified at the time of request for a site-specific engagement.

Corner Number - The number used to identify corner markers set in the field. The Corner Number consists of the four-digit file number or owner identification number, followed by a dash, followed by a sequential number of the corner. The description point of beginning is point number one, and each corner shall be numbered in sequence thereafter in a clockwise manner.

Deed Overlap – The situation that exists when the deed descriptions of adjoining parcels, when laid out on the ground, both describe and include the same lands; lands claimed by adjoining parties.

Due Date – Relative to a site-specific engagement, this is the date that all materials specified in the site-specific engagement contract are to be delivered in accordance with the requirements spelled out on the Detail Sheet.

Detail Sheet – The document transmitted with a site-specific engagement RFP announcement that provides specific project information and requirements for the land survey. The Detail Sheet may serve to clarify or modify standard requirements for a site-specific engagement.

Entire Acquisition - The acquisition of an entire parcel as indicated by a single municipally designated tax lot.

Environmental Infrastructure Funding Program (EIFP) - a funding source that is administered by NJDEP for acquiring interests in lands that provide a water quality benefit. The area funded by this program is encumbered with a specific restrictive covenant that requires it be marked in the ground by concrete monuments and described in a separate metes and bounds description of easement. The area so encumbered by Environmental Infrastructure Trust (EIT) restrictions must have clear, quiet title, no structures or improvements, no easements, and no adverse use. Essentially, the area must be in its natural state.

File # - a sequence number that identifies the seller of the property. Same as Offer # or Owner ID #.

Geographic Information System/Land Information System (GIS/LIS) – For the purpose of site-specific engagement awards, the system within NJDEP or other New Jersey state agencies consisting of computer hardware, software and resources that integrates a wide variety of data and explores interrelationships between different types of complex information compiled in geographic and associated tabular databases.

Green Acres Program – The division within the NJDEP that provides funding to non-profit groups, or municipal and county governments to acquire land for recreation or open space and serves as the real estate agent for the DEP, acquiring land for state parks, forests, natural areas, and wildlife management areas.

Green Acres Participation Limit Lines - Survey lines defined by metes and bounds within the surveyed deed lines that identify the limits of covenants and restrictions pursuant to Green Acres rules. Defined buffer lines for areas that are not encumbered by Green Acres restrictions.

Green Acres Survey - A property survey of land conducted for the purpose of open space acquisition in cooperation with the State of New Jersey, Department of Environmental Protection, Green Acres Program. A Green Acres Survey prepared for the Local Unit and Nonprofit Acquisition Program follows specific guidelines and specifications promulgated by the Green Acres Program pursuant to NJAC 7:36 Appendix 2. The full scope of work for Green Acres Surveys provides the desired format, research requirements, field methodology, presentation of findings on the plan of survey and the format of the corresponding metes and bounds description of property, and specifies the other deliverables. A Green Acres Survey is one that is performed in accordance with Green Acres Guidelines and approved for use by the Green Acres Program (as per this document). The ultimate determination of whether or not work is a "Green Acres survey" is dependent upon approval by Green Acres.

Green Acres Encumbrance Area - The net area for which funding has been expended for the acquisition or development of land, pursuant to Green Acres rules and regulations. The area subject to restrictive covenants with the NJDEP Green Acres Program.

Green Acres Partners– The parties entering a tenancy in common for the common preservation of a parcel of land. The percentage of undivided interest for each Green Acres Partner, generally stated to two decimal places, may be used to derive an acreage of partner participation for each funding source that contributed toward the acquisition.

Interest – Relative to the Green Acres Land Survey Guidelines, the extent and nature of the acquisition of interests in a tax lot. The extent is either E/A –(entire acquisition) or P/A –(partial acquisition), and the nature of the acquisition is Fee –(fee simple absolute), CE –(conservation easement or restriction without public access), PE (permanent easement of conservation with public access), or AG –(conservation restriction specific to agricultural) e.g. E/A Fee; P/A Fee; E/A CE; P/A CE; etc.

Local Unit – a municipality, county, or agency of either such entity having governmental powers.

Mathematical Survey Expressions – Units of measurement to define lines of survey. Angular units shall be stated as bearings in degrees, minutes, and whole seconds of arc. Horizontal distances, radii of curves, or lengths of arc shall be stated in US survey feet to two decimal places. All curves shall be defined by radius, arc length, delta, chord bearing, and chord distance.

NJDEP – New Jersey Department of Environmental Protection

New Jersey State Plane Coordinate System (NJSPCS) – North American Datum 1983 83. For surveys prepared pursuant to site-specific engagement awards, coordinate values (Northing or Y values and Easting or X values) for the description point of beginning shall be provided in US Survey feet, rounded to two decimal places after application of the grid factor. All bearings are provided in degrees, minutes, and rounded to whole seconds of arc. Distances are to be stated for horizontal ground distance with no grid factor applied in US Survey feet, stated to two decimal places.

Notification of Engagement - Written authorization for the designated applicants to commence the survey project.

Offer # - A sequence number that identifies the seller of the property. Same as Owner # or File #.

Owner ID # - A sequence number that identifies the seller of the property. Same as Offer # or File #.

Partial Acquisition - The acquisition of a part of a municipally designated lot where the remaining portion of the lot is of the same ownership as the portion to be acquired.

Project Area - One or more tax lots being surveyed simultaneously or as part of the same site-specific engagement.

Site-Specific Engagement – (a) The body of work performed after authorization to proceed has been granted by the State to a Contractor on a specific site, pursuant to the terms and conditions of the site-specific engagement award, including performance in accordance with Green Acres Guidelines); (b) a land survey contract for a particular project area.

State Surveyor – A New Jersey licensed Professional Land Surveyor employed by the New Jersey Department of Environmental Protection or other Using Agencies who is responsible for the technical aspects of the site-specific land survey contract and land survey document review for the Green Acres Program or other Using Agencies.

State's Project Manager - The individual assigned by the State to be responsible for coordinating the activities of the Contractors.

Survey Contract Manager – Responsible party within NJDEP who is responsible for the administration of site-specific engagement land survey contracts. The Green Acres Survey Contract Manager solicits the request for Response to RFP for site-specific engagements, receives all contract deliverables, and processes vouchers for final payment.

Using Agency – relative to Green Acres state land acquisition and Green Acres local assistance acquisition surveys, the “Using Agency” includes the Green Acres program, meaning that Green Acres becomes an Ultimate User of the deliverables.

10. SAMPLE FORMS AND TEXT

The following samples provide the basis of content and presentation for all state and local/nonprofit land acquisitions. Not all material is pertinent to every land acquisition project. Content is to be modified to conform to the specific conditions and contract parameters of each project.

Sample Form 1 - **WETLANDS DELINEATION INFORMATION**

Sample Form 2 – **AGENCY FAX NOTIFICATION**

Sample Form 3 – **NOTIFICATION OF ENTRY LETTER**

Sample Form 4 – **AERIAL PHOTO INFORMATION BLOCK**

Sample Form 5A – **LEGEND OF ACQUISITION – State Land Acquisition**

Sample Form 5B - **LEGEND OF ACQUISITION – Local Unit or Nonprofit Land Acquisition**

Sample Form 6A – **SURVEYOR'S CERTIFICATION AND SUMMARY FORM – State Land Acquisition**

Sample Form 6B – **SURVEYOR'S CERTIFICATION AND SUMMARY FORM – Local Unit or Nonprofit Land Acquisition**

Sample Form 7A – **STATE LAND ACQUISITION CHECKLIST**

Sample Form 7B – **LOCAL UNIT AND NONPROFIT LAND ACQUISITION CHECKLIST**

Sample Form 1 - WETLANDS DELINEATION INFORMATION

Freshwater Wetlands survey work is not usually required for NJDEP Green Acres Surveys. If required by NJDEP, follow the specifications and guidelines provided by NJDEP.

The following Sample Wetlands Delineation Information block is for use in the event of an actual Wetlands delineation on the surveyed property made as part of a site-specific engagement for NJDEP. When applicable, the following information shall be provided substantially in accordance with this format:

WETLANDS DELINEATION INFORMATION	
ENVIRONMENTALIST:	_____ (<i>individual name</i>) _____
ORGANIZATION:	_____ (<i>organization name</i>) _____
ADDRESS:	_____ (<i>address</i>) _____

PHONE:	____ (<i>area code & number</i>) _____
FAX:	____ (<i>area code & number</i>) _____
EMAIL:	_____
DELINEATION PREPARED FOR:	_____
DATE OF DELINEATION:	_____

Signature of Environmentalist	Date Signed

Sample Form 2 – AGENCY FAX NOTIFICATION

**GREEN ACRES STATE LAND ACQUISITION
DIVISION NOTIFICATION FAX TRANSMITTAL**

DATE: _____

FROM:

Surveyor _____

Name of Survey Firm _____

Phone FAX _____ VOICE _____

Email _____

FAX NOTIFICATION TO:

_____ Division of Parks and Forestry Fax 609-984-0503
Lynn Fleming, Assistant Director
State Park Service Voice 609-292-2772

OR

_____ Division of Fish, Game and Wildlife Fax 609-984-1414
Lisa Carben, Administrative Assistant III
Bureau of Lands Management Voice 609-984-0547

OR

_____ Office of Natural Lands Management Fax 609-984-1427
Robert Cartica , Acting Administrator Voice 609-984-1339

RE: Green Acres Survey Reference No. _____

Project Name & Number _____

Seller's Name _____

Municipality _____ County _____

Tax Block Number(s) _____ Tax Lot Number(s) _____

Street Address of Property _____

Our firm is under contract to provide Professional Land Surveying Services to GREEN ACRES STATE LAND ACQUISITION in connection with the above referenced land acquisition project.

Be advised that members of our field crew expect to initiate the survey work on the subject property starting on _____ and our due date to complete work is _____.

We would greatly appreciate you loaning to us copies of any prior surveys or deed documents that may be in the possession of your staff that would assist in the completion of this project. Please call me here at the office to advise if you have any such documents.

**RETAIN THIS FORM TO SUBMIT AS CONTRACT DELIVERABLE FOLLOWING
FAX TRANSMITTAL**

Sample Form 3 – NOTIFICATION OF ENTRY LETTER

(Company Letterhead)

(date)

(To Property Owner, Lessee/Occupant)
(Postal Address)
(Postal Address)

RE: Project No. _____ Project Name _____
Lands N/F of _____
Municipality _____, County _____
Block _____ Lot _____
Street Address _____
Survey Reference No. _____

Dear _____:

Our firm is under contract to provide Professional Land Surveying Services to _____ as NJDEP in connection with the above referenced land acquisition project.

In order to perform the land survey, our staff must gather field evidence, make measurements, and obtain data relative to existing physical characteristics and conditions of the lands being surveyed and sometimes on those lands that adjoin the project. It may be necessary for our land survey crew to enter upon your property for this purpose.

Be advised that there are several laws that provide specific authority for land surveyors to enter property for the purpose of making surveys. This letter is being provided to you as written notice that members of this office may be on your property during the period between (_____ *time period* _____) and (_____ *time period* _____).

Your cooperation in this success of this engagement is important to us. We would greatly appreciate you loaning to us copies of any prior surveys or deed documents that you may have in your possession that would assist in the completion of this project. Please call me here at the office to advise if you have any such documents.

If you have any questions concerning this project, please call (_____ *project coordinator identified in the site-specific engagement* _____) who can be reached by calling (_____ *area code and phone number* _____). While the work is being performed, we will make every effort to cause as little inconvenience as possible.

Very truly yours,

CC Police Department
Using Agency
Using Agency Project Manager

Sample Form 4 – AERIAL PHOTO INFORMATION BLOCK

When applicable, the following information shall be provided substantially in accordance with this format:

<p style="text-align: center;">AERIAL PHOTO INFORMATION BLOCK</p> <p>Source of Mapping _____</p> <p>Panel or Identification Number _____</p> <p>Date of Photography _____</p>
--

Sample Form 5A – LEGEND OF ACQUISITION - STATE ACQUISITION

The following information shall be substantially in accordance with this format:

LEGEND OF ACQUISITION
<u>PROJECT INFORMATION</u>
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION <i>(if Tenancy-in-Common, include % interest as below)</i>
PROJECT NAME: _____
GREEN ACRES SOURCE OF FUNDING/ PROJECT NUMBER: SA - -
GREEN ACRES PARTICIPATION ACRES THIS FUNDING SOURCE: _____
OWNER ID # _____ SELLER'S NAME: _____
MANAGING AGENCY/ENTITY: _____
<i>(Add the following only if a Tenancy-in-Common with Acquisition Partners is identified on Detail Sheet - add lines for other partners)</i>
ACQUISITION PARTNER: _____ as to _____ % interest, Tenants-in-Common
PROJECT NAME: _____
GREEN ACRES SOURCE OF FUNDING/ PROJECT NUMBER: _____
GREEN ACRES PARTICIPATION ACRES THIS FUNDING SOURCE: _____
<u>PARCEL INFORMATION</u> <i>(Repeat format to provide data separately for each individual tax parcel)</i>
MUNICIPALITY: _____ COUNTY: _____
TAX BLOCK: _____ LOT: _____
INTEREST ACQUIRING: FEE ___ EASEMENT ___ TYPE OF EASEMENT _____
ENTIRE ___ or PART ___ (OF LOT) PERCENT of LOT ACQUIRING: ___ ACRES: _____
<u>AREA SUMMARY</u>
TOTAL GROSS AREA SURVEYED _____ ACRES
<u>SUBJECT TO:</u>
AREA IN PUBLIC ROADS _____ ACRES
AREA SUBJECT TO RIPARIAN CLAIM OF NEW JERSEY _____ ACRES
TOTAL AREA UNDER NAVIGABLE FRESH WATERS _____ ACRES
AREA SUBJECT TO TITLE OVERLAPS _____ ACRES
AREA SUBJECT TO TITLE GORES _____ ACRES
AREA SUBJECT TO PHYSICAL ENCROACHMENTS _____ ACRES

Sample Form 5B - LEGEND OF ACQUISITION - LOCAL UNIT OR NONPROFIT

The following information shall be substantially in accordance with this format:

LEGEND OF ACQUISITION	
<u>PROJECT INFORMATION</u>	
PROJECT NAME:	_____
PROJECT NUMBER:	- -
SELLER'S NAME:	_____
MANAGING AGENCY/ENTITY:	_____
<i>(Add the following only if a Tenancy-in-Common with Acquisition Partners is identified on Detail Sheet – add lines for other partners)</i>	
ACQUISITION PARTNER:	_____s to _____% interest, Tenants-in-Common
PROJECT NAME:	_____
<u>PARCEL INFORMATION</u> <i>(Repeat format to provide data separately for each individual tax parcel)</i>	
MUNICIPALITY:	_____ COUNTY: _____
TAX BLOCK:	_____ LOT: _____
INTEREST ACQUIRING:	FEE _____ EASEMENT _____ TYPE OF EASEMENT _____
ENTIRE _____ or PART _____ (OF LOT)	PERCENT of LOT ACQUIRING: _____ ACRES: _____
MUNICIPALITY:	_____ COUNTY: _____
TAX BLOCK:	_____ LOT: _____
INTEREST ACQUIRING:	FEE _____ EASEMENT _____ TYPE OF EASEMENT _____
ENTIRE _____ or PART _____ (OF LOT)	PERCENT of LOT ACQUIRING: _____ ACRES: _____
<u>AREA SUMMARY</u>	
TOTAL GROSS AREA SURVEYED	_____ ACRES
<u>SUBJECT TO:</u>	
AREA IN PUBLIC ROADS	_____ ACRES
AREA SUBJECT TO RIPARIAN CLAIM OF NEW JERSEY	_____ ACRES
TOTAL AREA UNDER NAVIGABLE FRESH WATERS	_____ ACRES
AREA SUBJECT TO TITLE OVERLAPS	_____ ACRES
AREA SUBJECT TO TITLE GORES	_____ ACRES
AREA SUBJECT TO PHYSICAL ENCROACHMENTS	_____ ACRES
NET AREA OF GREEN ACRES ENCUMBRANCE	_____ ACRES

Sample Form 6A – CERTIFICATION FORM FOR STATE LAND ACQUISITION
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
GREEN ACRES PROGRAM
STATE LAND ACQUISITION PROGRAM
SURVEYOR'S CERTIFICATION AND SUMMARY FORM

PROJECT INFORMATION

PROJECT NAME: _____
GREEN ACRES SOURCE OF FUNDING/ PROJECT NUMBER: SA-_____-_____
GREEN ACRES PARTICIPATION ACRES THIS FUNDING SOURCE: _____
SELLER'S NAME: _____
MANAGING AGENCY/ENTITY: _____

ACQUISITION PARTNER: _____
PROJECT NAME: _____
GREEN ACRES SOURCE OF FUNDING/ PROJECT NUMBER: _____
GREEN ACRES PARTICIPATION ACRES THIS FUNDING SOURCE: _____

ACQUISITION PARCEL INFORMATION

BLOCK:_____ LOT:_____ MUNICIPALITY:_____ COUNTY:_____
ENTIRE__ or PART__ (OF LOT) FEE__ PERCENT of LOT:__ ACRES:_____
EASEMENT__ TYPE OF EASEMENT_____

BLOCK:_____ LOT:_____ MUNICIPALITY:_____ COUNTY:_____
ENTIRE__ or PART__ (OF LOT) FEE__ PERCENT of LOT:__ ACRES:_____
EASEMENT__ TYPE OF EASEMENT_____

ACQUISITION SURVEY INFORMATION

PREPARED FOR :__NJDEP GREEN ACRES PROGRAM_____

SURVEY FIRM:_____ CONTRACT No. S-_____

SURVEYOR:_____ NJPLS No._____ DATE ON
SURVEY PLAN:_____ DATE SIGNED:_____ DATE LAST REVISED:_____

ACQUISITION TITLE INFORMATION

TITLE COMPANY _____

COMMITMENT No. _____ DATE OF COMMITMENT _____

DEED USED FOR REFERENCE: _____

CERTIFICATION

I hereby certify that I have completed the above survey(s) in accordance with the Green Acres Survey Guidelines contained in a written contract as indicated. Based upon an actual field survey and my

examination of evidence, the above parcels consist of a total surveyed area of _____ acres subject to the following:

EASEMENTS _____

RESTRICTIONS _____

CONDITIONS _____

PUBLIC ROAD _____ AC. CLAIMED NJ TIDELANDS _____ AC. CLOUDED TITLE _____ AC.

UNDERWATER _____ AC. ENCROACHMENTS: YES _____ NO _____ # OF DESCRIPTIONS: _____

SURVEYOR'S SIGNATURE, DATE & SEAL

REVIEW BY GREEN ACRES, NJDEP

NET AREA OF ENCUMBRANCE DETERMINED BY GREEN ACRES _____ AC.

Sample Form 6B – CERTIFICATION FORM FOR LOCAL UNIT/NONPROFIT PROJECT
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
GREEN ACRES PROGRAM
LOCAL GOVERNMENT AND NON-PROFIT ORGANIZATION FUNDING PROGRAM
SURVEYOR'S CERTIFICATION AND SUMMARY FORM

PROJECT INFORMATION

GREEN ACRES PROJECT No.: _____

GREEN ACRES PROJECT NAME: _____

(USE EXTRA LINES ONLY IF MULTIPLE PROJECT NUMBERS AND NAMES INVOLVED)

ACQUISITION PARCEL INFORMATION

PARCEL OR OWNER ID# _____

SELLER'S NAME: _____

(REPEAT MUNICIPALITY, BLOCK, LOT, INTEREST, ETC. BELOW AS NEEDED TO IDENTIFY ALL PARCELS WITHIN THE LINES OF THE SURVEY IN WHICH INTERESTS ARE BEING ACQUIRED BY THE LOCAL UNIT / NONPROFIT)

MUNICIPALITY: _____ COUNTY: _____ BLOCK: _____ LOT: _____

ENTIRE__ or PART__ (OF LOT) FEE__ PERCENT of LOT:__ ACRES:_____

EASEMENT__ TYPE OF EASEMENT _____

SURVEY INFORMATION

PREPARED FOR LOCAL UNIT/USING AGENCY: _____

SURVEY FIRM: _____

NAME OF SURVEYOR: _____ NJPLS No. _____

DATE ON SURVEY PLAN: _____ DATE SIGNED: _____ DATE LAST REVISED: _____

TITLE INFORMATION

TITLE COMPANY _____

(IF NO COPY OF SEARCH WAS SUPPLIED BY USING AGENCY, STATE "SUBJECT TO FINDINGS OF TITLE SEARCH" ABOVE)

COMMITMENT No. _____ DATE OF COMMITMENT _____

DEED USED FOR REFERENCE: _____

CERTIFICATION

I hereby certify that I have completed the above survey in accordance with the "Green Acres Scope of Work For Professional Land Surveying Services" contained in a written contract with the above using agency. Based upon an actual field survey of the above property conducted under my supervision, my examination of field and record evidence and the above title report, (if any supplied by using agency), the parcel being acquired consists of a total surveyed area of _____ acres, subject to the following:

EASEMENTS _____

RESTRICTIONS _____

CONDITIONS: _____

ROAD: _____ AC. CLAIMED AS NJ TIDELANDS: _____ AC. OVERLAP: _____ AC.

UNDER WATER _____ AC. GORE BETWEEN ADJOINING LANDS _____ AC.

AREA OF CLOUDED TITLE: _____ AC.

ENCROACHMENTS (YES)___ (NO)___ NUMBER OF SEPARATE DESCRIPTIONS PREPARED: _____

SURVEYOR'S SIGNATURE, DATE & SEAL

SURVEY REVIEWED BY GREEN ACRES

NET AREA OF GREEN ACRES ENCUMBRANCE: _____ ACRES

Sample Form 7A – STATE LAND ACQUISITION CHECKLIST

CHECKLIST OF WORK COMPLETED - STATE LAND ACQUISITION NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION GREEN ACRES PROGRAM

8. SURVEY CONTRACT DELIVERABLES

8.1 Copies of Notifications – Letterhead Standard Notice

- 8.1.1 Division Fax Notification – Required -
- 8.1.2 Property Owner Notification – Required -
- 8.1.3 Police Department Notification – Required -
- 8.1.4 Adjoiner Notification – As Necessary -
- 8.1.5 Misc. Notification (Utility, etc.) – As Necessary

8.2 Copies of Written Consent – Letterhead Request with Reply

- 8.2.1 Adjoiner Consent to Cut Brush or Trees
- 8.2.2 Using Agency Consent to Cut Trees

8.3 Traverse Closure - Precision/Radial Error/Area

8.4 Full size Paper Copies of Survey Plan

- 15 Folded Copies for EACH ACQUISITION PARTNER for State acquisitions

8.5 Full size Mylar Survey Plan

- Submit one for EACH PARTNER, Rolled

8.6 Metes and Bound Description and Reduced Survey Plan

- 15 copies for EACH ACQUISITION PARTNER with reduced plan stapled as last sheet

8.7 Digital Files

Cover Label on Digital Media Disk:

- Property Owner Name and Owner ID#
- Project Number & Name
- Municipal Tax Block and Lot numbers
- Municipality & County
- Survey Firm
- Date of Survey
- Survey Reference Number.

Contains:

- 8.7-1 Descriptions
- 8.7-2 AutoCAD .dwg
- 8.7-3 Full drawing .pdf format
- 8.7-4 Linework .dxf format

8.8 Surveyor's Certification and Summary Form

- One signed and sealed copy required, which reports separately each lot depicted on the plan

8.9 This Checklist of Work completed, Detail Sheet from site-specific engagement and tax map from site-specific engagement

8.10 Corner Marker Description Sheets

- Corner Number /Character of Mark
- Project Information/Seller Information
- Location of Mark

- Survey Firm
- Cap Detail
- Sketch with field witness marks
- Photograph of south side of mark, looking northward.

Prepared by New Jersey Professional Land Surveyor

Date

Sample Form 7B – LOCAL UNIT AND NONPROFIT LAND ACQUISITION CHECKLIST
CHECKLIST OF WORK COMPLETED - LOCAL UNIT AND NONPROFIT LAND
ACQUISITION
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
GREEN ACRES PROGRAM

8. SURVEY CONTRACT DELIVERABLES

- 8.3 Traverse Closure - Precision/Radial Error/Area**
- 8.4 Full size Paper Copies of Survey Plan**
- 2 Folded Copies (unless otherwise notified)
- 8.6 Metes and Bound Description and Reduced Survey Plan**
- 2 copies for EACH ACQUISITION PARTNER with reduced plan stapled as last sheet

8.7 Digital Files

Cover Label on Digital Media Disk:

- Property Owner Name and Owner ID#
- Project Number & Name
- Municipal Tax Block and Lot numbers
- Municipality & County
- Survey Firm
- Date of Survey
- Survey Reference Number.

Contains:

- 8.7-1 Descriptions
- 8.7-2 AutoCAD .dwg
- 8.7-3 Full drawing .pdf format
- 8.7-4 Linework .dxf format

- 8.8 Surveyor's Certification and Summary Form**
- One signed and sealed copy required, which reports separately each lot depicted on the plan
- 8.9 This Checklist of Work completed**

Prepared by New Jersey Professional Land Surveyor

Date