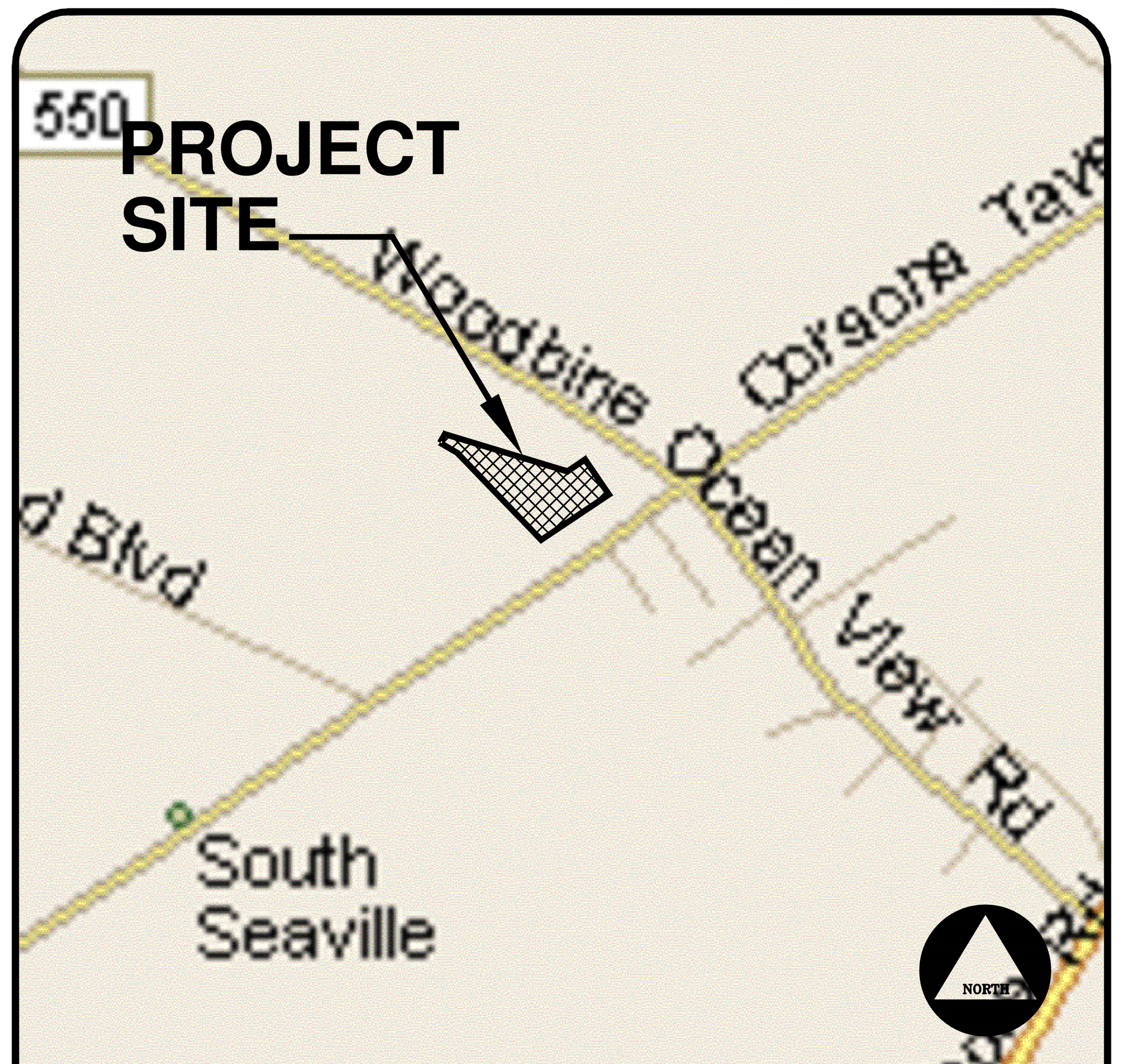
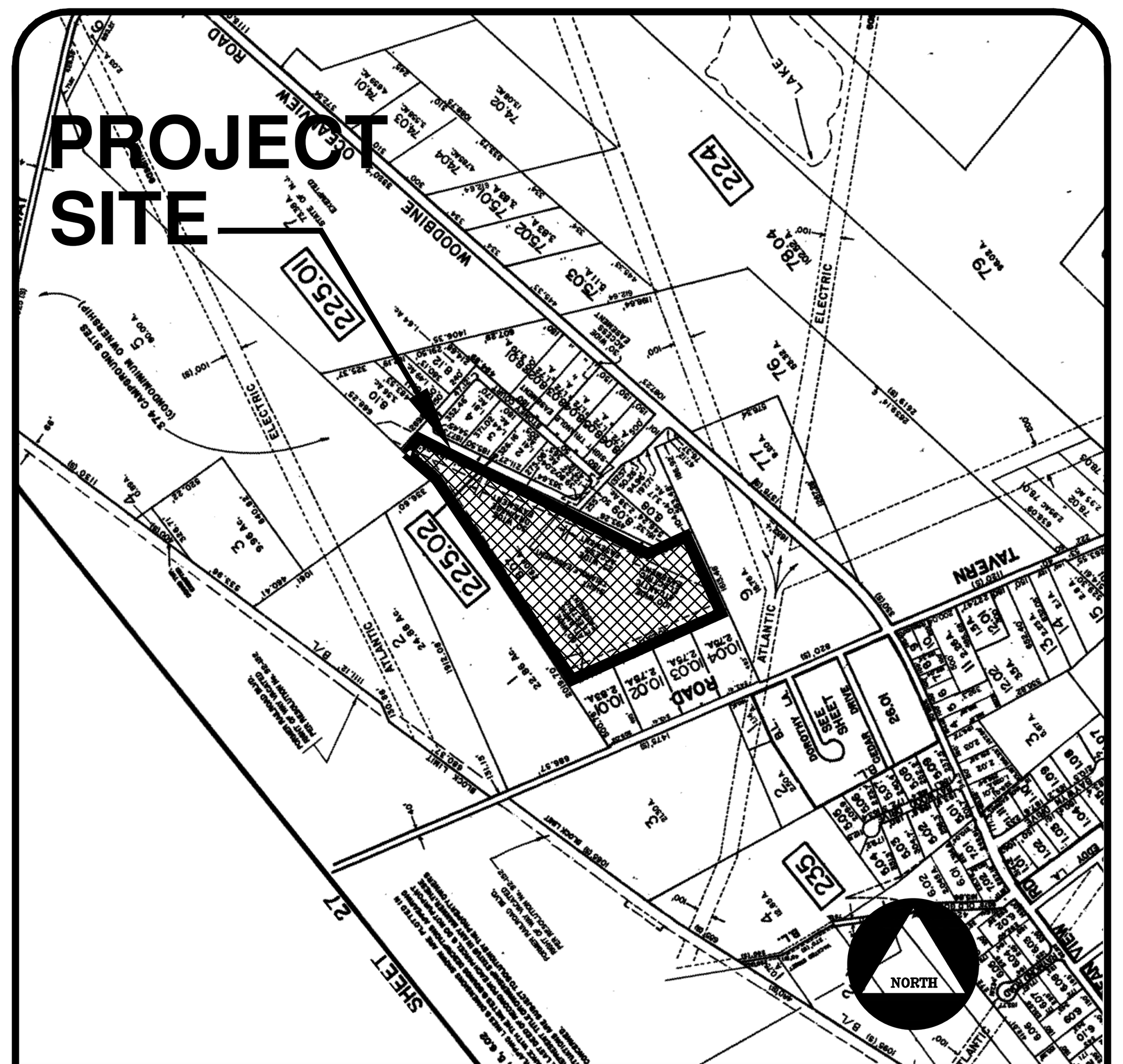
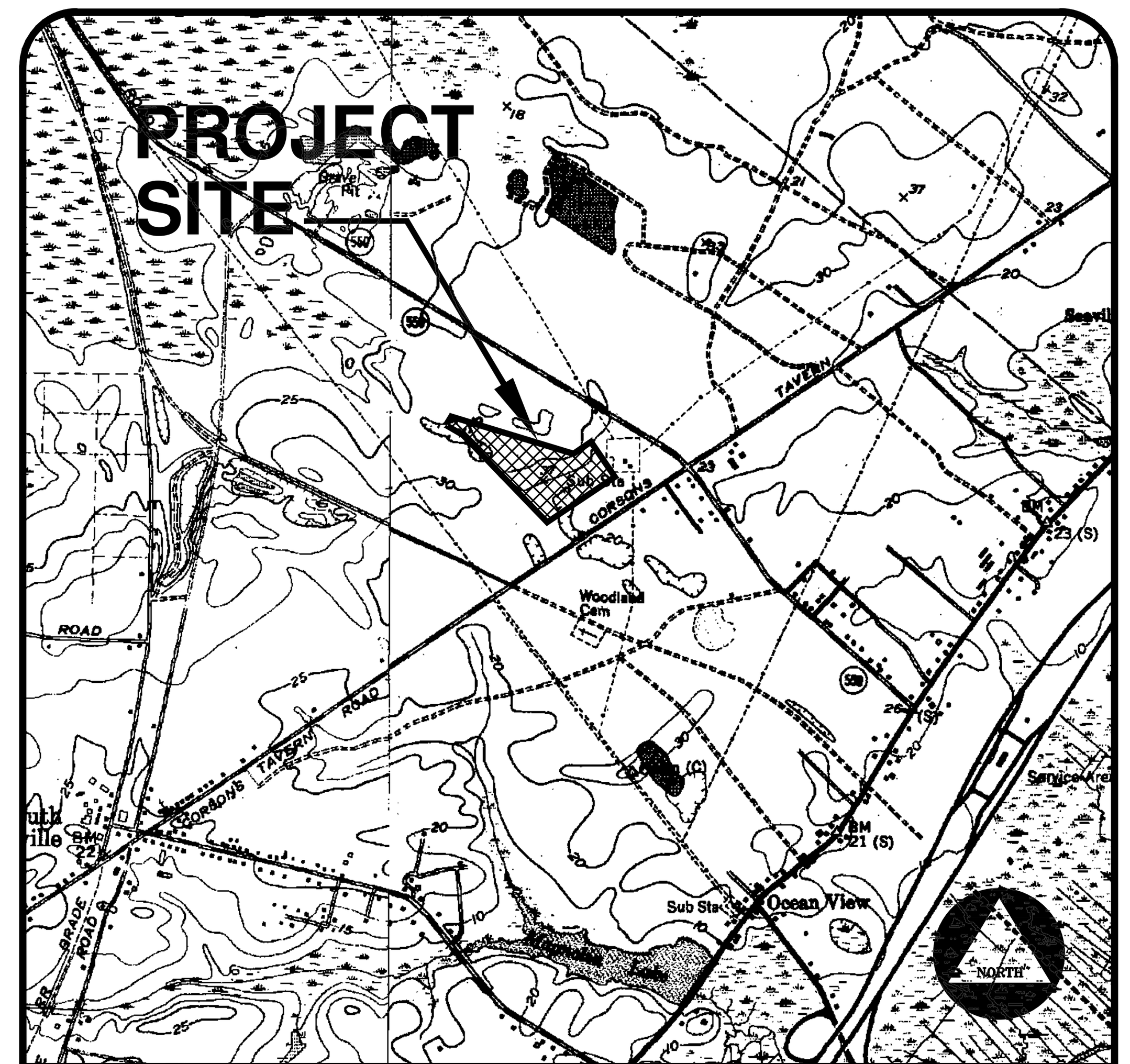


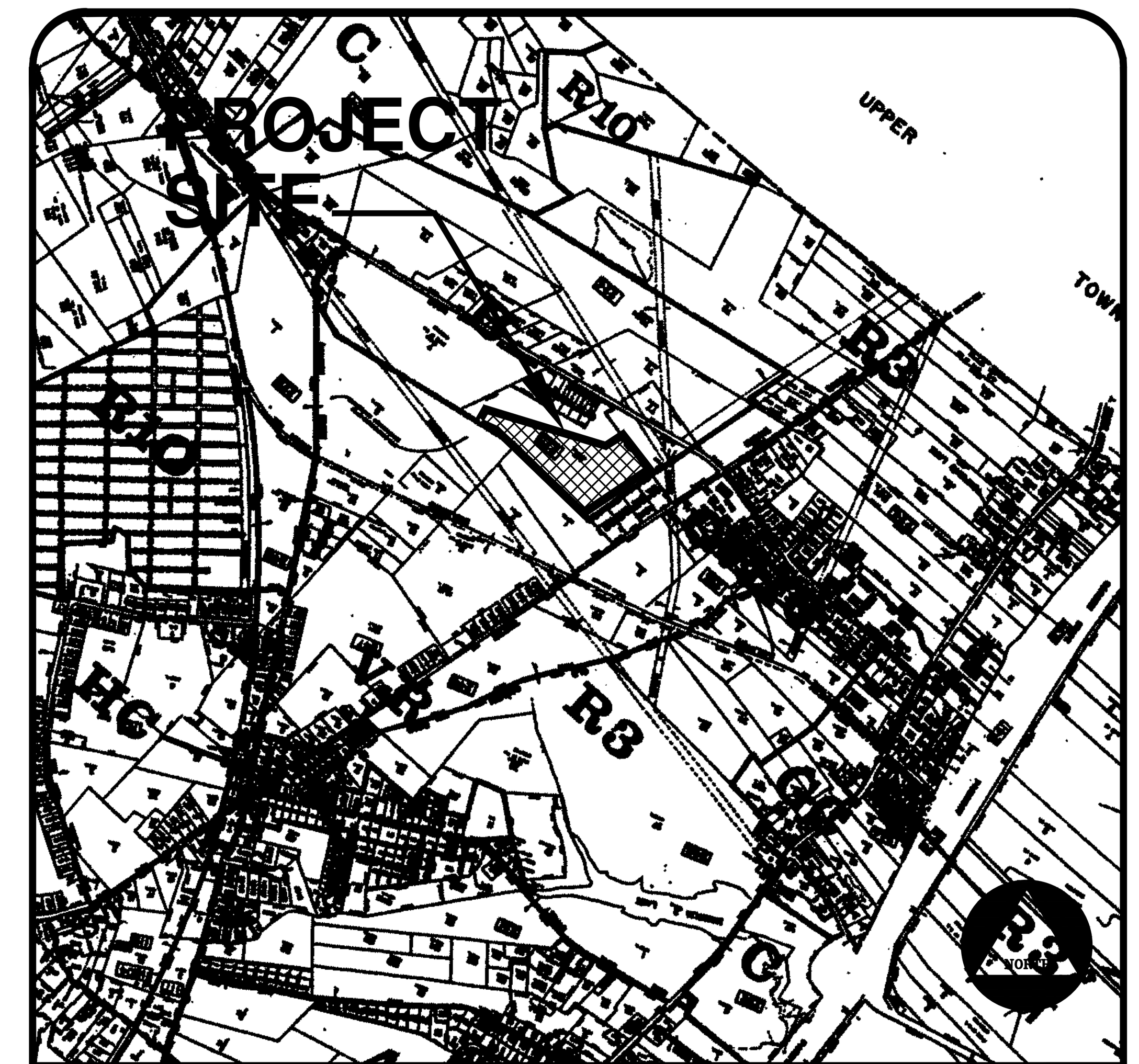
GENERAL LOCATION 1" = 2000'
(CAPE MAY COUNTY ROADWAY MAP)



DENNIS TOWNSHIP TAX MAP 1" = 1000'



U.S.G.S QUAD MAP 1" = 2000'



DENNIS TOWNSHIP ZONING MAP 1" = 2000'
(B- BUSINESS)

PROPERTY OWNERS WITHIN 500' OF
BLOCK 225.01, LOT 8.07, DENNIS TOWNSHIP, CAPE MAY COUNTY, NJ

BLOCK	LOT	QUAL	PROPERTY OWNER & MAILING ADDRESS PROPERTY LOCATION
224	76		ATLANTIC CITY ELECTRIC CO R/E DEPT 5100 HARDING HWY MAYS LANDING, NJ 08330 350 WOODBINE-OCEANVIEW RD
225.01	1		SEA QUEST ENTERPRISES, LLC PO BOX 607 OCEAN VIEW, NJ 08230 CORSON TAVERN RD
225.01	2		SEA QUEST ENTERPRISES, LLC PO BOX 607 OCEAN VIEW, NJ 08230 333 CORSON TAVERN RD
225.01	5		SEASHORE LINE CAMPERS RESORT PO BOX 552 SO SEAVILLE, NJ 08246 720 KINGS HIGHWAY
225.01	8.01		PLITWICK, MICHAEL R 22 BROOKRIDGE RD CAPE MAY COURT HOUSE, NJ 08210 375 WOODBINE-OCEANVIEW RD
225.01	8.02	C-1	HERMAN FEHRLE & SONS, INC PO BOX 507 SEA ISLE CITY, NJ 08243 369 WOODBINE-OV RD,UNIT 1
225.01	8.02	C-2	HERMAN FEHRLE & SONS, INC PO BOX 507 SEA ISLE CITY, NJ 08243 369 WOODBINE-OV RD,UNIT 2
225.01	8.02	C-3	NJC RENTALS, LLC 4 CARRIAGE LA CAPE MAY COURT HOUSE, NJ 08210 369 WOODBINE-OV RD,UNIT 3
225.01	8.02	C-4	JPF INVESTMENTS LLC 369 WOODBINE OCEANVIEW RD WOODBINE, NJ 08270 369 WOODBINE-OV RD,UNIT 4
225.01	8.02	C-5	HERMAN FEHRLE & SONS, INC PO BOX 507 SEA ISLE CITY, NJ 08243 369 WOODBINE-OV RD,UNIT 5
225.01	8.02	C-6	HERMAN FEHRLE & SONS, INC PO BOX 507 SEA ISLE CITY, NJ 08243 369 WOODBINE-OV RD,UNIT 6
225.01	8.02	C-7	JPF INVESTMENT LLC 229 59TH ST SEA ISLE CITY, NJ 08243 369 WOODBINE-OV RD,UNIT 7
225.01	8.02	C-8	JPF INVESTMENTS LLC 229 59TH ST SEA ISLE CITY, NJ 08243 369 WOODBINE-OV RD,UNIT 8
225.01	8.03		SWANSON, ANDREW & CONOVER, FRANK R 47 SUNSET BLVD LONGPORT, NJ 08403 363 WOODBINE-OCEANVIEW RD
225.01	8.04		RHINESMITH, DONALD BRUCE 7 MERIDIAN DR CAPE MAY COURT HOUSE, NJ 08210 357 WOODBINE-OCEANVIEW RD
225.01	8.05		CROWN ATLANTIC CO,LLC #807140 PO BOX353,4017 WASHINGTON MCMURRAY, PA 15317.2520 351 WOODBINE-OCEANVIEW RD
225.01	8.06		PITTALUGA, SANTA J 210 47TH ST SEA ISLE CITY, NJ 08243 345 WOODBINE-OCEANVIEW RD
225.01	8.08		RAMSON HOLDINGS,LLC 561 SHUNPIKE RD CAPE MAY COURT HOUSE, NJ 08210 5 STONEY COURT
225.01	8.09		STONEY 9, LLC C/O DEB CARR 1248 WILSON DRIVE STE 200 CAPE MAY, NJ 08204 9 STONEY COURT
225.01	8.10		DENNIS LAND, LLC 2123 DUNE DR, STE 10 AVALON, NJ 08202 31 STONEY COURT
225.01	8.11		WESPAIGEFORD LLC 7 SPRUCE CT OCEAN VIEW, NJ 08230 35 STONEY COURT
225.01	8.12		DENNIS LAND, LLC 2123 DUNE DR, STE 10 AVALON, NJ 08202 39 STONEY COURT
225.01	9		ATLANTIC CITY ELECTRIC CO R/E DEPT 5100 HARDING HWY MAYS LANDING, NJ 08330 305 WOODBINE-OCEANVIEW RD
225.01	10.01		DEVER, MATTHEW & PATRICIA A 300 47TH PLACE SEA ISLE CITY, NJ 08243 353 CORSON TAVERN RD
225.01	10.02		MAUND, BRIAN & SANDRA G 363 CORSON TAVERN RD OCEAN VIEW, NJ 08230 363 CORSON TAVERN RD
225.01	10.03		DEVER, DANIEL O & JOANN 373 CORSON TAVERN RD OCEAN VIEW, NJ 08230 373 CORSON TAVERN RD
225.01	10.04		SCHALL, FREDERICK R JR & JOANNE M 383 CORSON TAVERN RD OCEAN VIEW, NJ 08230 383 CORSON TAVERN RD
225.02	1		MCLENAGHAN, JOSEPH P & C DENISE 300 BEACHTREE DR BROOMALL, PA 19008 10 STONEY COURT
225.02	2		18 STONEY COURT LLC 47 VILLAGE DR SOMERS POINT, NJ 08244 18 STONEY COURT
225.02	3		FPK 3 PROPERTIES, LLC 24 STONEY CT OCEAN VIEW, NJ 08230 24 STONEY COURT
225.02	4		MARINI, FRED J 320 43RD PL SEA ISLE CITY, NJ 08243 30 STONEY COURT

CAPE MAY COUNTY PLANNING BOARD
DN-309, CENTRAL MAIL ROOM
CAPE MAY COURT HOUSE, NJ 08210

VERIZON COMMUNICATIONS
% ENGINEERING DEPARTMENT
10 TANSBORO RD, FL 2
BERLIN, NJ 08009

SOUTH JERSEY GAS COMPANY
% JOSEPH SCHNEIDER
GENERAL MANAGER
SYSTEM ENGINEERING & PLANNING
1 SO JERSEY PLAZA
FOLSOM, NJ 08037

CONECTIV REAL ESTATE DEPARTMENT
5100 HARDING HIGHWAY, SUITE 399
MAYS LANDING, NJ 08330-9902

COMCAST CABLE
901 W LEEDS AVENUE
ABSECON, NJ 08201

PUBLIC SERVICE ELECTRIC & GAS CO.
MANAGER-CORPORATE PROPERTIES
80 PARK PLAZA, T6B
NEWARK, NJ 07102

CAPE ATLANTIC SOIL
CONSERVATION DISTRICT
ATTN: MICHAEL KENT
6260 OLD HARDING HIGHWAY
MAYS LANDING, NJ 08330

PROPERTY OWNERS LIST WITHIN 500'

General Notes:

1. Applicant/Owner:

   JF KIELY CONSTRUCTION
   AND / OR KIELY R.E.
   1 RADAR WAY
   TINTON FALLS, NJ 07724

2. Outbound and topographic information was taken from "Outbound and Topographical Survey, Tax Lot 8.07, Block 225.01, Dennis Twp., Cape May County, NJ" dated 6/17/05, last revised 7/5/07, prepared by Vargo Associates, P.O. Box 647, Franklinville, NJ; Michael Vargo, NJPLS, Lic. No. 33182 and site investigation by the client and Engineering Design Associates April 2021.

3. The site is located on Woodbine-Ocean View Rd. & is known as Block 225.01, Lot 8.07 as shown on Tax Plate # 23 of the Dennis Township Tax Map. The entire project site is located in the (B) Business Zoning District. The site presently has approximately 20 acres of mined or excavated area.

4. All previously disturbed areas within buffer zones are to remain as they exist. No new excavation is to take place within any buffer zones.

5. The prescribed operation will not generate any additional stormwater runoff, and, as such, will not have any adverse impact on surrounding watersheds or properties.

6. All standards/specifications set forth on these plans shall be maintained as required throughout the life of the operation.

7. These plans have been prepared in accordance with ordinance 94-263 of the Township of Dennis to regulate the excavation of sand, gravel, earth or soils.

8. Hours of operation for the resource extraction:

	Begin	End
Monday	6:00 AM	6:00 PM
Tuesday	6:00 AM	6:00 PM
Wednesday	6:00 AM	6:00 PM
Thursday	6:00 AM	6:00 PM
Friday	6:00 AM	6:00 PM
Saturday	6:00 AM	6:00 PM
Sunday	Closed	Closed

GENERAL NOTES

Survey Information

Outbound and topographic information was taken was taken from "Outbound and Topographical Survey, Tax Lot 8.07. Block 225.01, Dennis Township, Cape May County, NJ" dated 6/17/05, last revised 7/5/07, prepared by Vargo Associates, P.O.Box 647, Franklinville, NJ; Michael Vargo, NJPLS, Lic. No. 33182.

SURVEY INFORMATION

This set of plans has been prepared for purposes of municipal and agency review and approval. This set of plans shall not be utilized as construction documents until all conditions of approval have been satisfied on the drawings and each drawing has been revised to indicate "Issued for Construction."

Contractor shall check and verify all existing utilities, grades, site dimensions and existing conditions before proceeding with construction. Any discrepancies or unusual conditions are to be reported to design engineer/project staff immediately for adjustments or directions.

All construction to be performed in accordance with NJDOT Standard Specifications and supplementary specifications for this project.

These drawings do not include the necessary components for construction safety; however, all construction must be done in compliance with the Occupational Safety and Health Act of 1970 and all rules and regulations appurtenant to this project.

CONTRACTOR NOTES

ZONING INFORMATION

(B) BUSINESS DISTRICT ZONE
DENNIS TOWNSHIP GRAVEL PIT EXCAVATIONS ORDINANCE NO.94-263

MINING / EXCAVATION BUFFER

DESCRIPTION	REQUIRED	PROPOSED
Buffer From Public Roadway	150'	100'
Buffer From Public Building	300'	300'+
Buffer From Adjoining Properties	50'	50'

ZONING INFORMATION

RESOURCE EXTRACTION PLAN
BLOCK 225.01 LOT 8.07
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

TOWNSHIP OF DENNIS PLANNING BOARD APPROVAL BLOCK

Chairman ____________ Date ________
Secretary ____________ Date ________
Engineer ____________ Date ________

EDA Engineers - Landscape Architects - Planners

EDA Engineering Design Associates, P.A.
Engineers Environmental Planners Landscape Architects
CAMBRIDGE PROFESSIONAL OFFICES
5 Cambridge Drive Ocean View New Jersey 08230
(609) 390-0332 • Fax (609) 390-9204
CERTIFICATE OF AUTHORIZATION#: 24GA27970300

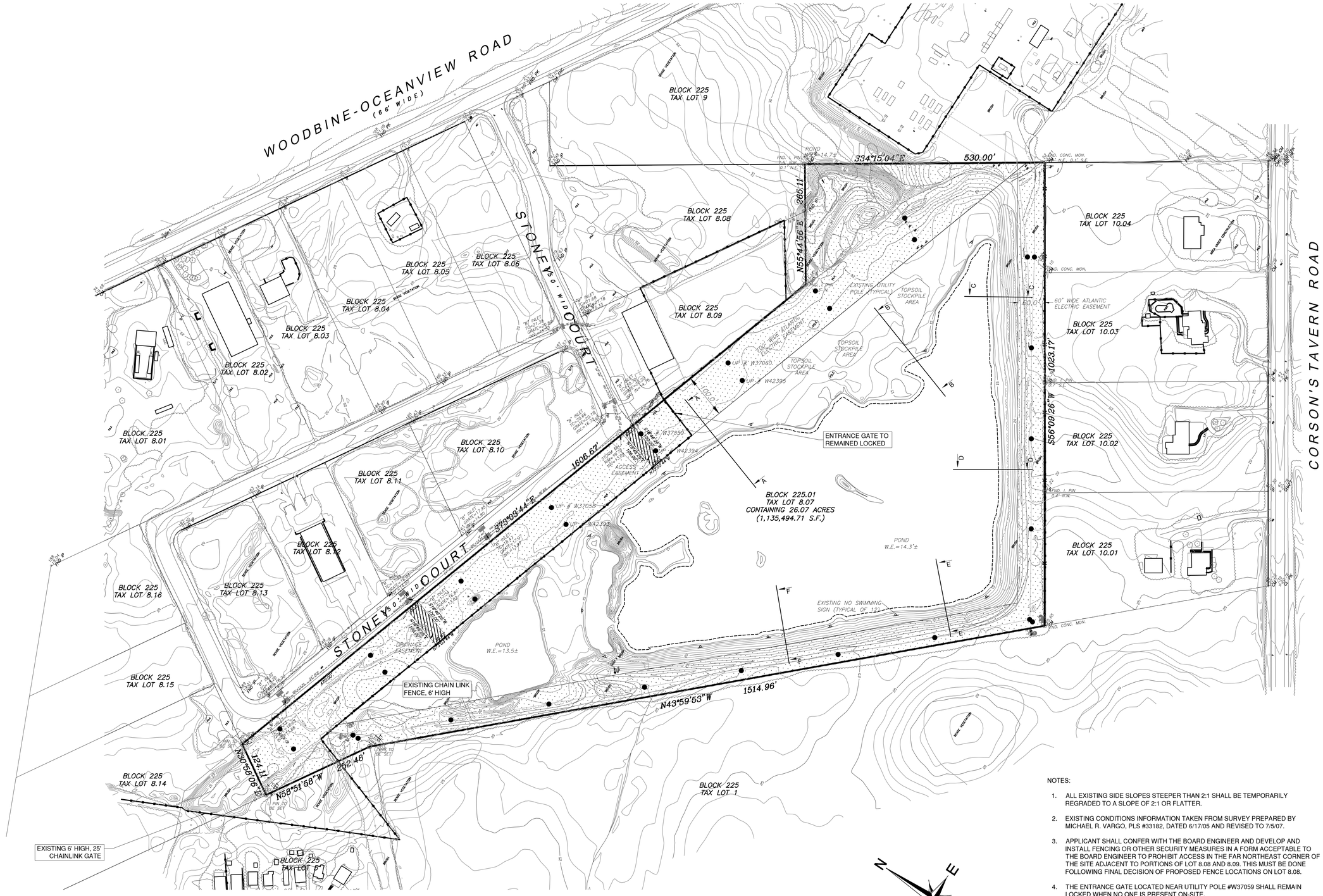
COVER SHEET
BLOCK 225.01 , LOT 8.07
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

JOSEPH H. MAFFEI
PROFESSIONAL ENGINEER
N.J.P.E. LIC. #37894

REVISION	DATE	BY
REVISED SUBMISSION	8/16/23	PTJ
REV. APPLICANT INFORMATION	2/28/23	PTJ
REV. FOR 2021 RENEWAL	4/28/21	PTJ
REV. FOR 2017 RENEWAL	8/28/17	MAJ
REV. FOR 2013 RENEWAL	11/07/13	PTJ
REV. SHEET 2 & 3, SHEET 4 ADDED PER PB ENGINEER	3/09/12	PTJ
REV. SHEETS 2 & 3	10/17/11	PTJ
REV. FOR 2011 RENEWAL	8/15/11	PTJ
REV. SHEETS 2 & 3 PER PB ENGINEER	2/18/08	JHM

EDA

DATE: 11/8/07	DRAWN BY: JEC
SCALE: AS NOTED	CHECKED BY: JHM
PROJECT #: 7842	SHEET: 1 0F 5



GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

1 inch = 100 ft.

NOTES:

1. ALL EXISTING SIDE SLOPES STEEPER THAN 2:1 SHALL BE TEMPORARILY REGRADED TO A SLOPE OF 2:1 OR FLATTER.
2. EXISTING CONDITIONS INFORMATION TAKEN FROM SURVEY PREPARED BY MICHAEL R. VARGO, PLS #33182, DATED 6/17/05 AND REVISED TO 7/5/07.
3. APPLICANT SHALL CONFER WITH THE BOARD ENGINEER AND DEVELOP AND INSTALL FENCING OR OTHER SECURITY MEASURES IN A FORM ACCEPTABLE TO THE BOARD ENGINEER TO PROHIBIT ACCESS IN THE FAR NORTHEAST CORNER OF THE SITE ADJACENT TO PORTIONS OF LOT 8.08 AND 8.09. THIS MUST BE DONE FOLLOWING FINAL DECISION OF PROPOSED FENCE LOCATIONS ON LOT 8.08.
4. THE ENTRANCE GATE LOCATED NEAR UTILITY POLE #W37059 SHALL REMAIN LOCKED WHEN NO ONE IS PRESENT ON-SITE.

EDA Engineering Design Associates, P.A.
Engineers Environmental Planners Landscape Architects
CAMBRIDGE PROFESSIONAL OFFICES
6 Cambridge Drive Ocean View, New Jersey 08230
(609) 390-0812 Fax (609) 390-9204
CERTIFICATE OF AUTHORIZATION# 24GA27977500

EXISTING CONDITIONS
BLOCK 225.01 , LOT 8.07
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

JOSEPH H. MAFFEI
PROFESSIONAL ENGINEER
N.J.P.E. LIC. #37894

REVISION	DATE	BY
REVISED SUBMISSION	8/16/23	PTJ
REV. FOR 2021 RENEWAL	4/28/21	PTJ
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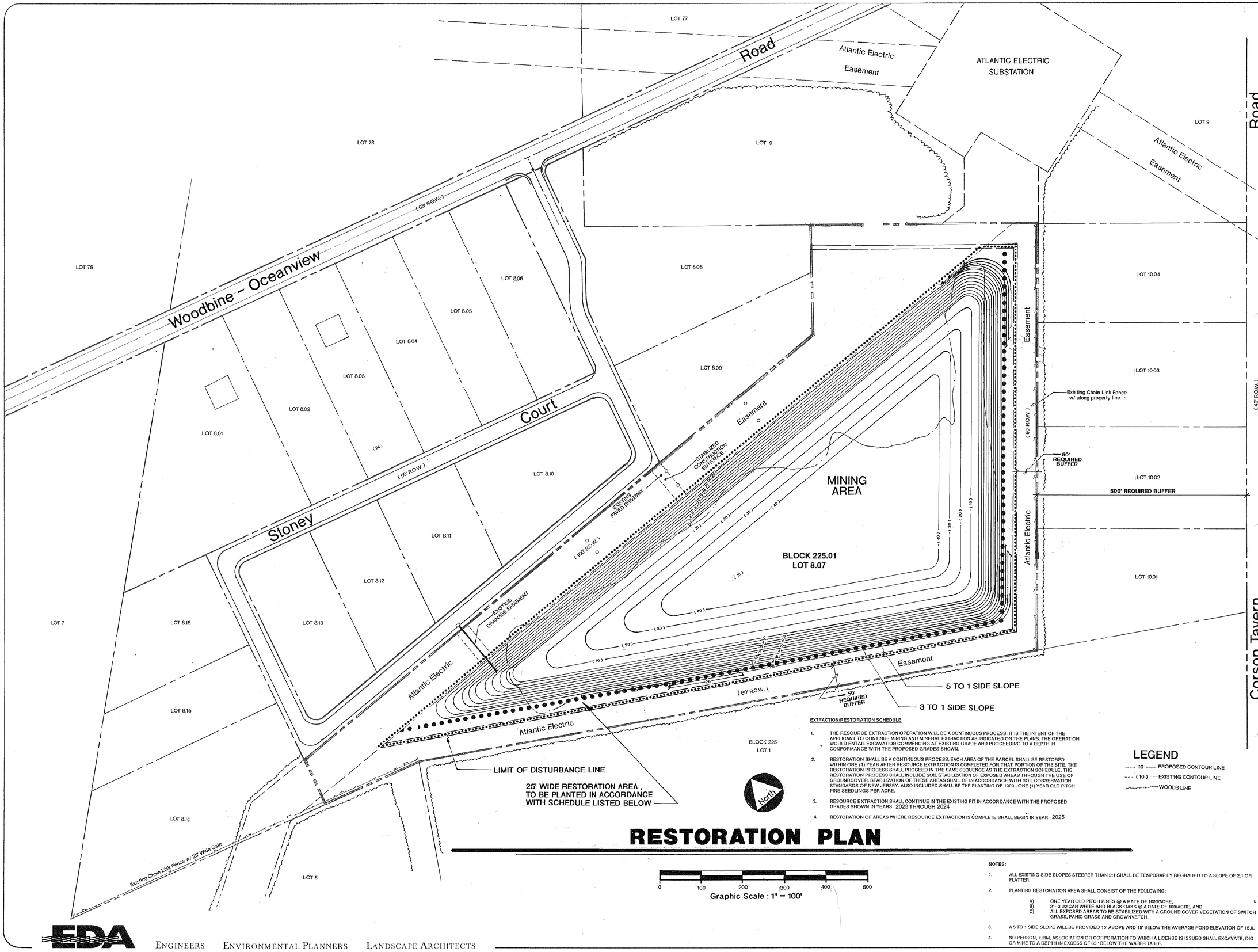
REV PER APPROVAL	10/17/11	PTJ
REV FOR 2011 RENEWAL	8/15/11	PTJ
REV PER PB ENGINEER	2/18/08	JHM

EDA

DATE: 11/8/07	DRAWN BY: JEC
SCALE: 1" = 100'	CHECKED BY: JHM
PROJECT #: 7842	SHEET: 2 0F 5



EXTRACTION/RESTORATION SCHEDULE

1. THE RESOURCE EXTRACTION OPERATION WILL BE A CONTINUOUS PROCESS. IT IS THE INTENT OF THE APPLICANT TO CONTINUE MINING AND MINERAL EXTRACTION AS INDICATED ON THE PLANS. THE OPERATION WOULD ENTAIL EXCAVATION COMMENCING AT EXISTING GRADE AND PROCEEDING TO A DEPTH IN CONFORMANCE WITH THE PROPOSED GRADES SHOWN.
2. RESTORATION SHALL BE A CONTINUOUS PROCESS. EACH AREA OF THE PARCEL SHALL BE RESTORED WITHIN ONE (1) YEAR AFTER RESOURCE EXTRACTION IS COMPLETED FOR THAT PORTION OF THE SITE. THE RESTORATION PROCESS SHALL PROCEED IN THE SAME SEQUENCE AS THE EXTRACTION SCHEDULE. THE RESTORATION PROCESS SHALL INCLUDE SOIL STABILIZATION OF EXPOSED AREAS THROUGH THE USE OF GROUNDCOVER, STABILIZATION OF THESE AREAS SHALL BE IN ACCORDANCE WITH SOIL CONSERVATION STANDARDS OF NEW JERSEY. ALSO INCLUDED SHALL BE THE PLANTING OF 1000 - ONE (1) YEAR OLD PITCH PINE SEEDLINGS PER ACRE.
3. RESOURCE EXTRACTION SHALL CONTINUE IN THE EXISTING PIT IN ACCORDANCE WITH THE PROPOSED GRADES SHOWN IN YEARS 2023 THROUGH 2024
4. RESTORATION OF AREAS WHERE RESOURCE EXTRACTION IS COMPLETE SHALL BEGIN IN YEAR 2025

LEGEND

—— 10 —— PROPOSED CONTOUR LINE
- - - (10) - - - EXISTING CONTOUR LINE
WOODS LINE

RESTORATION PLAN

Graphic Scale : 1" = 100'

NOTES:

1. ALL EXISTING SIDE SLOPES STEEPER THAN 2:1 SHALL BE TEMPORARILY REGRADED TO A SLOPE OF 2:1 OR FLATTER.
2. PLANTING RESTORATION AREA SHALL CONSIST OF THE FOLLOWING:
   - A) ONE YEAR OLD PITCH PINES @ A RATE OF 1000/ACRE,
   - B) 2' - 3' #2 CAN WHITE AND BLACK OAKS @ A RATE OF 100/ACRE, AND
   - C) ALL EXPOSED AREAS TO BE STABILIZED WITH A GROUND COVER VEGETATION OF SWITCH GRASS, PANIC GRASS AND CROWNVETCH.
3. A 5 TO 1 SIDE SLOPE WILL BE PROVIDED 15' ABOVE AND 15' BELOW THE AVERAGE POND ELEVATION OF 15.0.
4. NO PERSON, FIRM, ASSOCIATION OR CORPORATION TO WHICH A LICENSE IS ISSUED SHALL EXCAVATE, DIG OR MINE TO A DEPTH IN EXCESS OF 65 ' BELOW THE WATER TABLE.

RESOURCE EXTRACTION / Soil Erosion PLAN

EDA ENGINEERING DESIGN ASSOCIATES, P.A.
ENGINEERS ENVIRONMENTAL PLANNERS LANDSCAPE ARCHITECTS
5 CAMBRIDGE DRIVE, OCEAN VIEW, NEW JERSEY 08230
(609) 390 - 0322 FAX (609) 390 - 9204

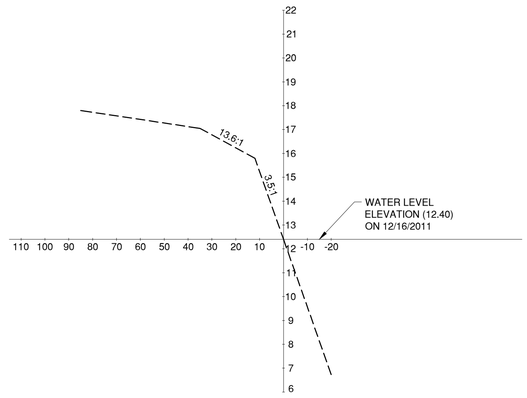
RESTORATION PLAN

BLOCK 225.01 , LOT 8.07
DENNIS TOWNSHIP
CAPE MAY COUNTY , NEW JERSEY

JOSEPH H. MAFFEI
PROFESSIONAL ENGINEER
N.J.P.E. LIC. #37894

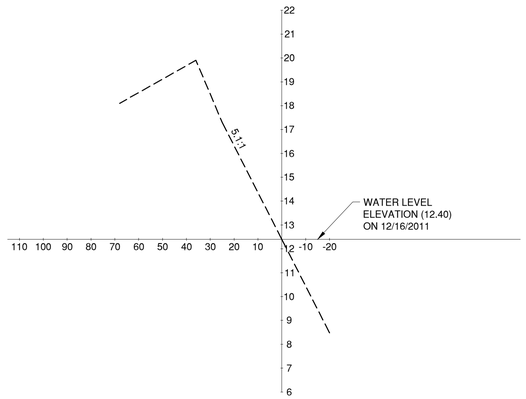
Revision	Date	By
REVISED SUBMISSION	8/16/23	PTJ
REV DATES	2/28/23	PTJ
REV FOR 2021 RENEWAL	4/28/21	PTJ
REV FOR 2017 RENEWAL	8/28/17	MAJ
REV FOR 2013 RENEWAL	11/07/13	PTJ
REV PER APPROVAL	3/09/12	PTJ
REV FOR 2011 RENEWAL	8/15/11	PTJ
REV. PER PLANNING BOARD ENGINEER	**2/19/08**	**FAV**
REV. RESUBMITTED For 2008 RE-LICENSING	**11/08/07**	**FAV**
REV. PER 11/4/04 DTPB WORKSHOP	**11/11/04**	**JAA**

Date 10/14/04 | Drawn By JJM
Scale As Noted | Checked By JHM
Project # 7842 | Sheet 3 of 5



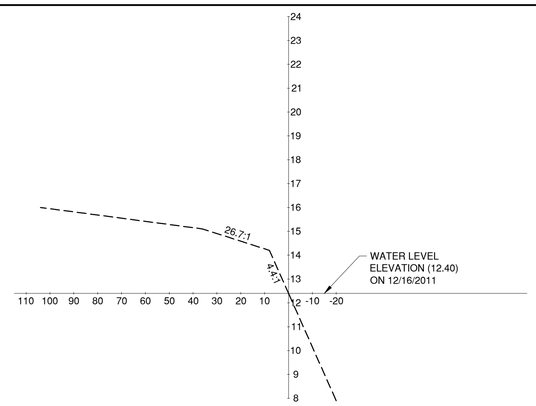
CROSS SECTION "AA"

1" = 30' (HORIZONTAL)
1" = 3' (VERTICAL)



CROSS SECTION "DD"

1" = 30' (HORIZONTAL)
1" = 3' (VERTICAL)



CROSS SECTION "BB"

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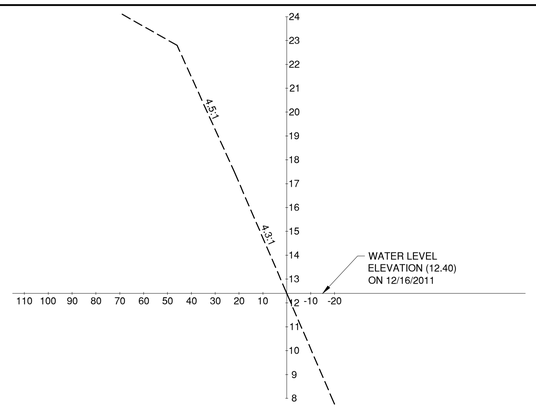
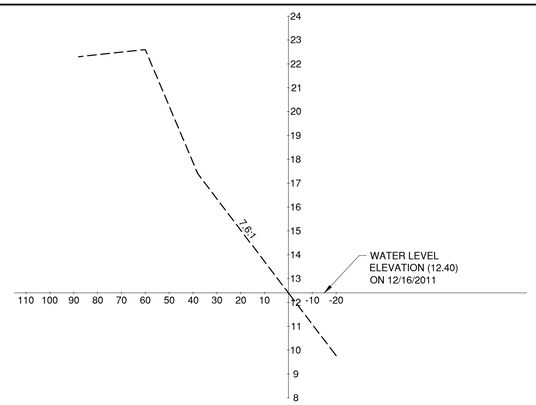
1" = 3' (VERTICAL)



CROSS SECTION "EE"

1" = 30' (HORIZONTAL)
1" = 3' (VERTICAL)



CROSS SECTION "CC"

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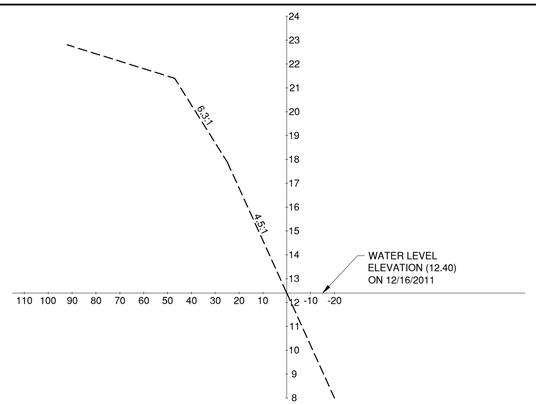
1" = 3' (VERTICAL)



CROSS SECTION "FF"

1" = 30' (HORIZONTAL)
1" = 3' (VERTICAL)

EDA
Engineering
Design
Associates, P.A.
Engineers Environmental Planners Landscape Architects
CAMBRIDGE PROFESSIONAL OFFICES
6 Cambridge Drive Ocean View, New Jersey 08230
(609) 390-0812 ● Fax: (609) 390-9204
CERTIFICATE OF AUTHORIZATION# 24GA27975500

CROSS SECTIONS
BLOCK 225.01 , LOT 8.07
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

JOSEPH H. MAFFEI
PROFESSIONAL ENGINEER
N.J.P.E. LIC. #37894

REVISION	DATE	BY
REVISED SUBMISSION	8/16/23	PTJ
REV. FOR 2017 RENEWAL	4/28/21	PTJ
REV. FOR 2017 RENEWAL	8/28/17	MAJ

EDA

DATE: 3/09/12	DRAWN BY: PTJ
SCALE: AS NOTED	CHECKED BY: JHM
PROJECT #: 7842	SHEET: 4 0F 5

SOIL EROSION AND SEDIMENT CONTROL PLAN

1. All soil erosion and sediment control practices to be installed prior to any major soil disturbances, or in their proper sequence, and maintained until permanent protection is established.

2. Any disturbed areas that will be left exposed more than 30 days and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of a temporary cover, the disturbed areas will be mulched with straw, or equivalent material, at a rate of two (2) tons per acre, according to state standards.

3. Permanent vegetation to be seeded or sodded on all exposed areas with in ten (10) days after final grading. Mulch will be used for protection until seeding is established.

4. All work to be done in accordance with the state standards for Soil Erosion and Sediment contol in New Jersey.

5. A sub-base course will be applied immediately following rough grading and installation of improvements in order to stabilize streets, roads, driveways and parking areas. In areas where no utilities are present, the sub-base shall be installed within 15 days of preliminary grading.

6.* Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e.: steep slopes, roadway embankments) will receive a temporary seeding in combination with straw mulch or a suitable equivalent , at a rate of two (2) tons per acre, according to state standards.

7.* Any steep slopes receiveing pipeline installation will be backfilled and stabilized daily, as the installation proceeds (i.e.: slopes greater than 3:1).

8.* Traffic control standards require the installation of a 50' x 30' x 1' pad of 1 1/2" to 2" stone, at all construction driveways, immediately after initial site disturbances.

9. In accordance with the Standards for Permanent Vegetative Cover for soil Stabilization, any soil having a pH of 4 or less containing iron sulfide shall be covered withh a minimum of 12 inches of soil having a pH of 5 or more prior tp seedbed preparation.

10. The Soil Conservation District shall be notified 72 hours in advance of any land disturbing actitvity.

11. At the time when the site preparation for permanent vegetation stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover, shall be removed or treated in such a way that will permanently adjust the soil conditions and render it suitable for vegetative ground cover.

    If the removal or treatment of the soil will not provide suitable conditions, non-vegetative means of permanent ground stabilization will have to be employed.

12. In that N.J.S.A. $:24-39 et seq., requires that no Certificates of Occupancy be issued before the provisions of the certified plan for soil erosion and sediment control have been compiled with for permanent measures, all site work for site plans and all work around individual lots in subdivisions, will have to be completed prior to the District issuing a Report of Compliance for the issuance of a certificate of Occupancy by the Municipality.

13.* Conduit outlet Protection must be installed at all required outfalls prior to the drainage system becoming operational.

14. Any changes to the certified Soil Erosion and Sediment Control Plans will require the submission of revised Soil Erosion and Sediment Control plans to the District for re-certification. The revised plans must meet all current State Soil Erosion and Sediment Control Standards.

15. The Soil Conservation District shall be notified of any changes in ownership.

16. Requirements for whole or part transfer of project ownership:
    a. New project or lot owner must complete and file a soil erosion application, prior to land disturbance, with the district office, assuming erosion control responsibility.
    b. All infrastructure and drainage improvements must be completed and stabilized in accordance with the soil erosion plans prior to any dwellings being eligible for Reports of Compliance.
    c. Upon completion of dwelling and permanent lot stabilization, the lot owner must arrange for a compliance inspection as a pre-requisite for obtaining a "Certificate of Occupancy" by the municipality. One weeks advance notice is required.

*Where Applicable

STORMWATER MANAGEMENT MAINTENANCE PROGRAM

BASIN MAINTENANCE

In order to ensure that all retention and detention basins function properly, a maintenance program must be followed. The following are the minimum requirements for the maintenance of all basins.

1. Annual visual inspection of outlet stuctures and basins.
    a. Inspection of outlet structures to include checking for obstructions of outfall pipes and the aacumulation of silts and sediments.
    b. Inspection of basins to include the removal of debris and accumulated particles such as silts and sediments.

2. For maintenance of vegetated basins:
    a. Mowing of grass is required regularly to ensure the aesthetic quality of the site. All clippings shall be raked and bagged to avoid thatch buildup.
    b. A dense turf, with extensive root growth, is encouraged to reduce erosion and enhance infiltration throughout the bottom and the side of the basin. Well-established turf of the floor and sides will grow through sediment deposits, thus forming a porous turf and preventing the formation of an impermeable layer.
    c. Grasses of the fescue family are recommended for seeding, primarily due to their adaptability to dry sandy soild, drought resistance, hardiness, and ability to withstand brief inundations. Fescues will also permit longer intervals between mowings.
    d. Seed type: A mixture of the following special water-tolerant seed will ensure a high quality grass for retention basins.

INGREDIENTS Mixture 8	SEEDING RATE
Fescue	2.1Lb./1,000 SF
Perennial Rye Grass	0.25Lb./1,000 SF
Kentucky Bluegrass	0.25Lb./1,000 SF
White Clover	0.10Lb./1,000 SF

    e. Fertilizing and liming: Bi-annually
    Fertilize with 10-20-10 at a rate of 11lbs./1,000 SF
    Lime with pulverizer dolomite limestone at a rate of 90lbs./1,000 SF

3. Long term Maintenance
    a. In order to ensure proper function of all basins, every seven years each basin bottom shall be scarified to a depth of 4" to remove sediments and silts. Then 4" of topsoil must be added and reseeded.

STORMWATER STRUCTURE MAINTENANCE

Maintenance is the work required to keep structures in practice, or restore them to their original physical and functional condition. Maintenance as it applies to this situation shall be divised into two stages: that which is necessary to allow for continuing performance of stormwater controls during the construction period and long term maitenance following construction. Both stages are necessary for the life of the stormwater structures and systems.

1. MINIMUM REQUIREMENTS FOR MAINTENANCE
    a. TRENCHES/SWALES
    Tenches/Swales to be inspected for rubbish or channel obstructions, bank failure,accumulation of silts and sediments, undesirable vegetaton growth, rodents, and overall system failure.
    b. OUTLET STRUCTURE/CONDUIT
    Inspection of outlet structures and conduit to include checking for obstuction of pipe, accumulation of silts and sediments, cracking, corrosion, deterioration from freezing, salt or chemicals, excessive wear or damage from settling.
    c. SPILLWAYS/INLETS/MANHOLES
    Inpection to include checking for cracking, rodents, obtructions(silt-sediment, trash or other.) Check any gates, racks, or grates, for damage from corrosion, ice debris. Check for unauthorized modifications, tampering or vandalism.

2. LONG TERM MAINTENANCE
As noted, any basin, pipe, pit, trench or inlet not functioning as designed will be thoroughly cleaned as prescribed. Any system that continues to remain inoperable after thorough cleaning must be removed and replaced.

RESPONSIBILITY

All on-site retention facilities shall be the sole responsibility of the developer/owner, his assigns and/or heir. The responsibility shall include but not be limited to installation, inspection, and maintenance.

DETENTION FACILITY MAINTENANCE

The primary mechanical equipment use in the Annual Maintenance of the Basins will be for lawn cutting. The exact type and size of this equipment is to be determined by the maintenance service under contract for the project.

SOIL CONSERVATION NOTES

MULCHING

Mulching is required on all seeding. Mulch will insure against erosion before grass is established and will promote faster and earlier establishment. (The existence of satisfactory permanent vegetation at the time of the project or unit completion shall be deemed as compliance with this mulching requirement.)

A. Mulch materials should be unrotted small grain straw, hay free of seeds, or salt hay to be applied at the rate of 2.0 to 2.5 tons per acre (90 to 115 pounds per 1,000 square feet.), except that where a crimper is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of applicationmust be double the lower rate. Mulch chopper-blowers must not grind the material.

B. Spread uniformly by hand or mechanically so that approximately 75% to 95% of the soil surface will be covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section.

C. Mulch anchoring should be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area , steepness of slopes, and costs.

1. Peg and Twine – Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.
2. Mulch Nettings– Staple paper, jute,cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
3. Crimper (mulch anchoring tool) – A tractor-drawn implement, somewhat like a disc-harrow, especially designed to push or cutsome of the broadcast long fiber mulch 3 to 4 inches into the soil as to anchor it and leave part standing upright. This technique is limited to areas traversible by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
4. Liquid Mulch-Binders – May be used to anchor salt hay, hay, or straw mulches.
    a. Applications should be heavier at edges where wind catches the mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance.
    b. Use one of the following:
        (1) Emulsified asphalt – (SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, and CRS-2).
        Apply 0.04 gal/sq./yd. or 194 gal./acre on flat slopes less than 8 feet high. On slopes 8 feet or more high, use 0.075 gal./sq./yd. or 363 gal/acre.
        (2) Cutback asphalt – rapid curing (RC- 70, RC-250, and RC-800) or medium curing (MC-250 or MC-800).
        Applying 0.04 gal./sq./yd./or 363 gal./acre.
        (3) Synthetic or Organic binders – binders such as Curasol, DCA-70, Petro-set, and Terra-Tack may be used at rates recommended by the manufacturer to anchor mulch materials.

    NOTE: All names given above are registered trade names. This does not constitute a recommendation of these products to the exclusion of other products.

D. Wood-fiber or paper – fiber mulch at the rate of 1,500 pounds per acre may be applied by a hydrosedder. Use is limited to flatter slopes and during optimum seeding periods in spring and fall.

STANDARDS FOR TOPSOILING

METHODS AND MATERIALS
Topsoil shold be friable and loamy, free of debris, objectionable weeds and stones, and contain no toxic substance that may be harmful to plant growth. a pH range of 5.0-7.5 is acceptable. Soluble salts should not be excessive (conductivity less than 0.5 millimhos per centimeter). Topsoil hauled in from off site should have a minimum organic matter content of 2.75 percent. Organic matter content may be raised by additives.

1. Stockpiling
    a. Stockpiles of topsoil shouuld be situated so as not to obstruct natural drainage or cause off-site environmental damage.
    b. Stockpiles should be vegetated in accordance with tempory seeding specifications on soil erosion sheet.

2. Site Preparation
    a. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application and anchoring, and maintenance.
    b. Subsoil should be tested for lime requirement and limestone, if needed, should be applied to bring soil pH to 6.5 and incorporate into the soil as nearly as practical to a depth of 4inches.
    c. Immediately prior to topsoil distrubution, the surface should be scarified to provide a good bond with the topsoil.
    d. Employ needed erosion control practices such as diversions, grade stabilization structures, channel stabilization measures, sedimentation basins, and wateways.

3. Applying Topsoil
    a. Topsoil should be handled only when it is dry enough to work without damaging soil structure; i.e., less than field capacity.
    b. A uniform application to a depth of 5 inches (unsettled) is recommended. Soils with a pH of 4.0 or less or containing iron sulfid shall be covered with a minimum depth of 12 inches of soil having a pH of 5.0 or more.

DUST CONTROL STANDARDS

The following methods should be considered for dust control at the request of the Township Construction Code Official, or upon inspection by an S.C.D. official.

1. Spray – On Adhesive – On mineral soils (not effective on muck soils.) Keep traffic off these areas.

	Water Dilution	Type of Nozzle	Apply Gallons/Acre
Anionic asphalt emulsion	7:1	Coarse spray	1,200
Latex emulsion	12 1/2 :1	Fine spray	235
Resin in water	4:1	Fine spray	300

2. Tillage – To roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, produce the desired effect.

3. Sprinkling – Site is sprinkled until the surface ie wet. and spring – toothed harrows are examples of equipment which may

4. Barriers – Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing.

5. Calcium Chloride – Shall be in the form of loose dry granules at a rate that will keep surface moist but not cause or flakes fine enough to feed through commonly used spreaders pollution or plant damage. If used on steeper slopes, Then use other practices to prevent washing into streams or accumulation around plants.

6. Stone – Cover surface with crushed stone or coarse gravel.

7. Mulch – Stabilization with approved mulches and vegetation cover being temporary of permanent.

SEEDING SPECIFICATIONS

Temporary Seeding

Fertilizer	(10-20-10 or equivalent)	11 Lbs./1,000 SF
Limestone	(50% Calcium plus MgO)	90 Lbs./1,000 SF
Perennial Rye Grass	(Lolium multiflorum)	1 Lb./1,000 SF

Permanent Seeding

Fertilizer	(10-20-10 or equivalent)	11 Lbs./1,000 SF
Limestone	(50% Calcium plus MgO)	90 Lbs./1,000 SF
Mixture B-15	Kentucky Bluegrass (Three Cultivar Blend)	0.9 Lbs./1,000 SF
	Hard Fescue	2.7 Lbs./1,000 SF
	Perennial Rye Grass	0.7 Lbs./1,000 SF

FERTILIZER

Work lime and fertilizer into soil as nearly as pratical to depth of four inches (4"0). Remove from the surface all stones two inches (2") or larger. Roll soil to firm the seed bed where feasible. Use Specifications as shown above.

NOTE:

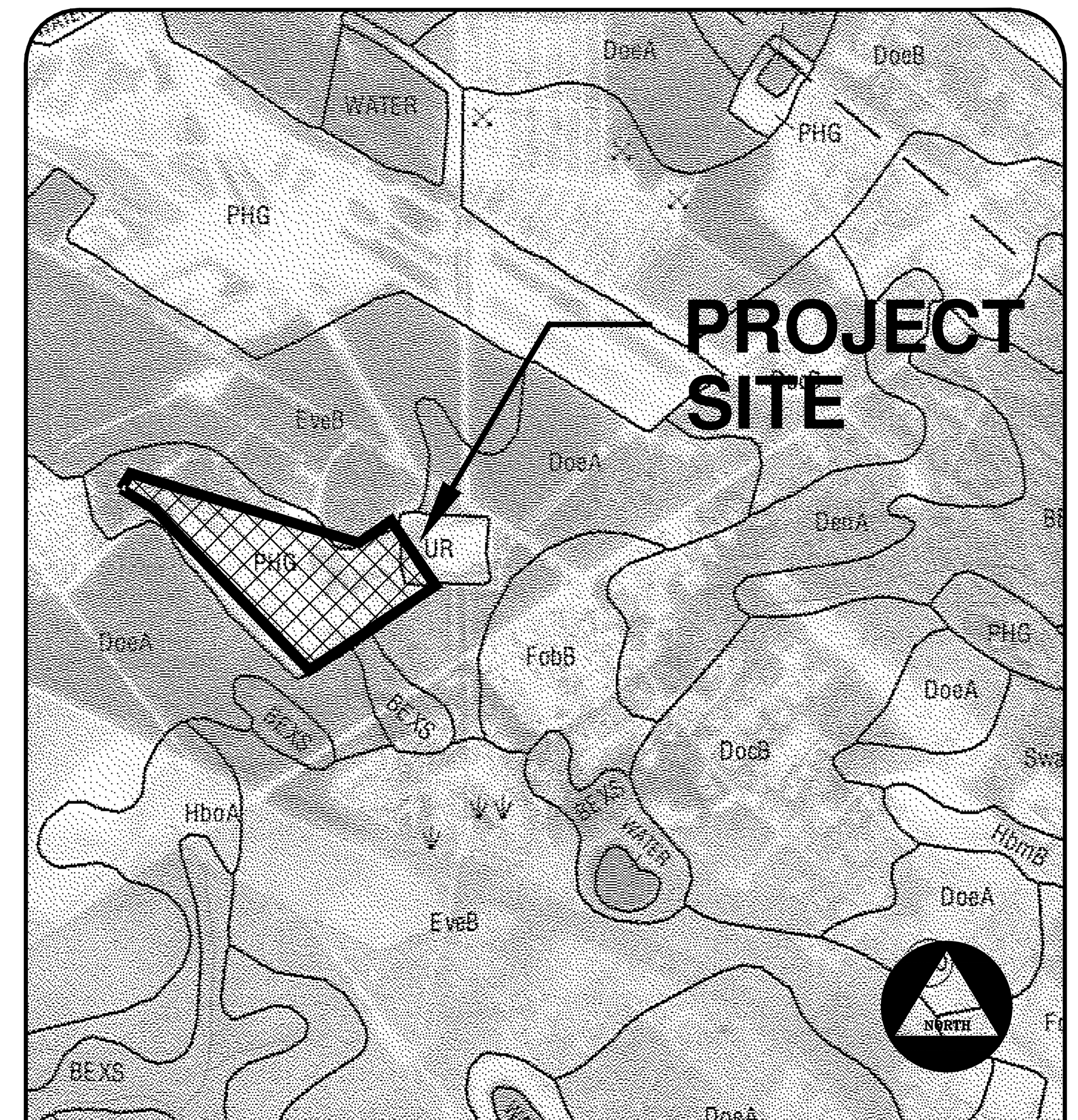
Optimum seeding dates February 1 to April 30 and August 15 to November 30.

SOIL CONSERVATION NOTES

PHASE	OPERATION	TIME PERIOD
A.	ESTABLISH EROSION CONTROL MEASURES	CONTINUAL
B.	ROUGH GRADING / MINING	CONTINUAL
C.	PERFORM TEMPORARY SEEDING AS NECESSARY	CONTINUAL
D.	PERFORM PERMANENT SEEDING	AS NEEDED

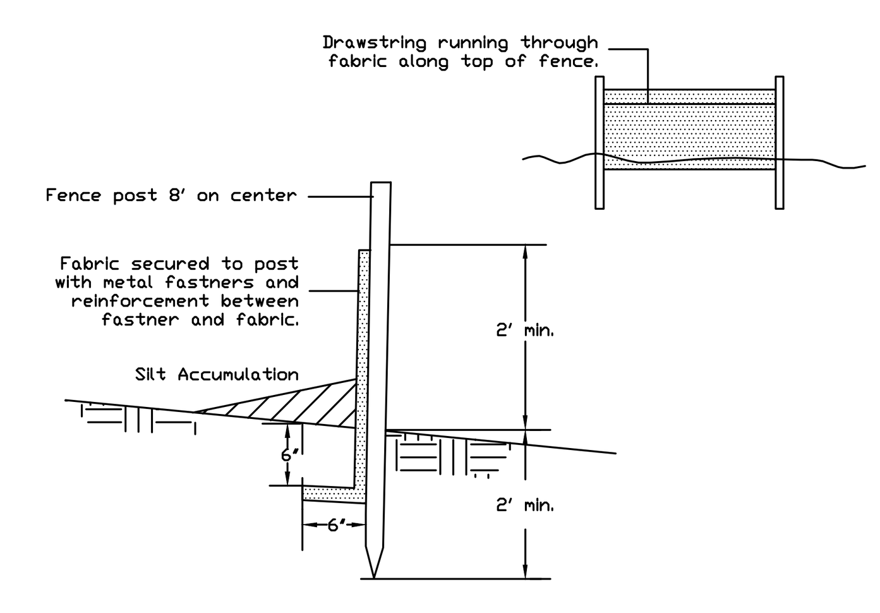
VARIOUS GRADING/MINING TO CONTINUE THROUGHOUT MINING PERIOD.

CONSTRUCTION SEQUENCE

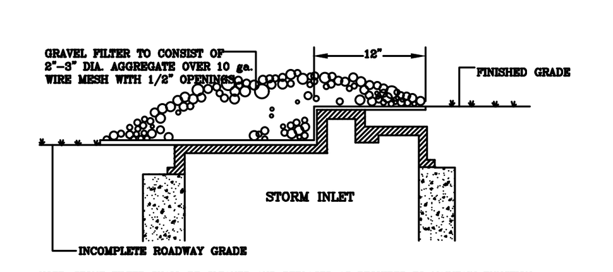


S.C.D. SOILS MAP

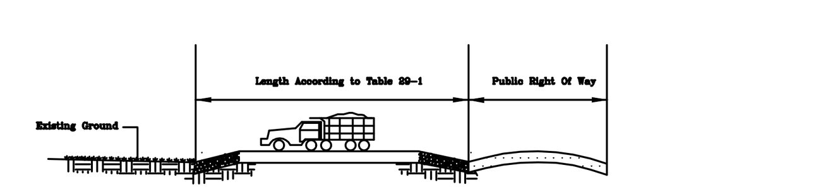
1"=1000'

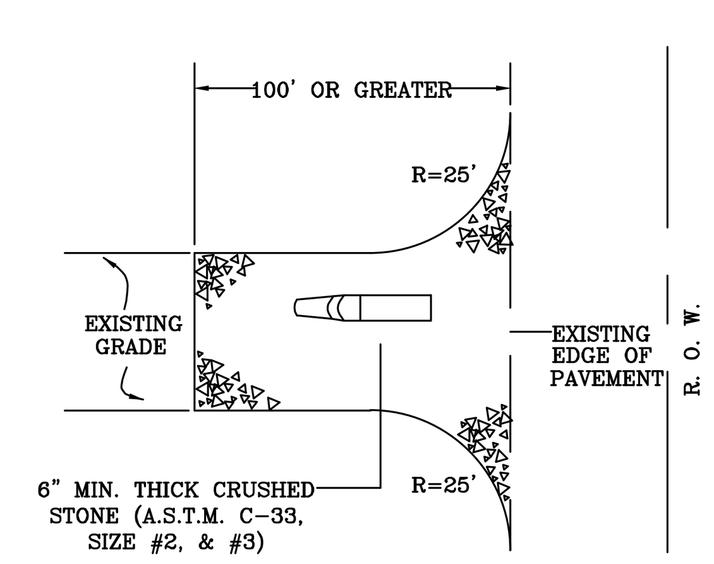


SILT FENCE DETAIL



INLET PROTECTION





CONTRACTOR TO PROVIDE APPROPRIATE TRANSITION BETWEEN THE STABILIZED ENTRY AND THE ROW

STABILIZED CONSTRUCTION ENTRANCE

The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto roadways. This may require periodic top dressing with additional stone or additional length as conditions demand repair and/or clean out of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto roadways (public or private) or other impervious surfaces must be removed immediately.

Where accumulation of dust/sediment is inadequately cleaned or removed by conventional methods, a power broom or street sweeper will be required to clean paved or impervious surfaces. All other access points which are not stabilized shall be blocked off.

SOIL CONSERVATION DETAILS

PHG—Pits, sand and gravel

Composition

The number of observations in this map unit was minimal; however, the detail of mapping is adequate for the expected use of the map unit.

Typical Profile

Pits are open excavations from which soil material has been removed for use as construction material or road aggregate. They commonly have steep, unstable slope faces. Some pits are filled with water. A typical profile is not given for this map unit.

Use and Management

Management concerns: Variable soil properties that require onsite investigation to determine specific management concerns

Interpretive Groups

Land capability classification: VIIIs

SOILS DESCRIPTION

LAND COVER

A. Total Area of Site 26 ACRES

B. Present Cover OPEN GRAVEL PIT

C. Total Area of Disturbance 26 ACRES

D. Adjacent Site Conditions WOODED, DEVELOPED

RESPONSIBILITY

All soil erosion and sediment control measures and facilities shall be the sole responsibility of the developer/owner. The responsibility shall include, but not be limited to installation, inspection, and maintenance of conditions during and following construction.

APPLICANT / OWNER:

JF KIELY CONSTRUCTION
AND / OR KIELY R.E.
1 RADAR WAY
TINTON FALLS, NJ 07724

GENERAL INFORMATION

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CERTIFICATE OF AUTHORIZATION#: 24GA27970300

SOIL CONSERVATION SHEET
BLOCK 225.01 , LOT 8.07
DENNIS TOWNSHIP
CAPE MAY COUNTY, NEW JERSEY

JOSEPH H. MAFFEI
PROFESSIONAL ENGINEER
N.J.P.E. LIC. #37894

REVISION	DATE	BY
REVISED SUBMISSION	8/16/23	PTJ
REV. APPLICANT INFORMATION	2/28/23	PTJ
REV. FOR 2021 RENEWAL	4/28/21	PTJ
REV. FOR 2017 RENEWAL	8/28/17	MAJ
REV FOR 2011 RENEWAL	8/15/11	PTJ

DATE: 11/8/07	DRAWN BY: JEC
SCALE: AS NOTED	CHECKED BY: JHM
PROJECT #: 7842	SHEET: 5 0F 5