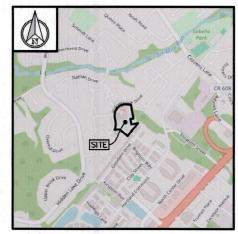
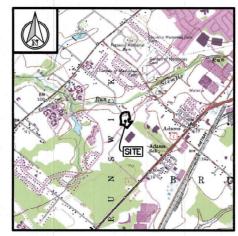
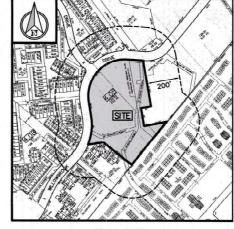
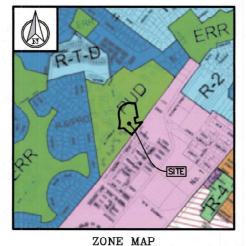
DDEN LAKE STORAGE

TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY BLOCK 4.05, LOT 122.05









1"=1,000"

ROAD MAP

	 2 7002	CINION	

U.S.G.S. MAP 1"=2,000"

TAX MAP

200' OWNERS LIST

		NORTH BRUNSWCK, NJ 08902									
15	120.56	MAJITHIA, NARENDRA & CHANDABEN 286 WILLOWBROOK DRIVE NORTH BRUNSWCK, NJ. 08902	4.08 2	355	FI, JAYMIN & NISHITA WILLOWERCOK DRIVE TH BRUNSWICK, N.I. 08902	4.34	45.39	BROOKDALE APTS LLC % STEVE STRAUSS 433 RIVER ROAD HIGHLAND PARK, NJ 08904	4.44	2.7904	TRACH, JOHNS 30 ELEANOR DRIVE KENDALL PARK, NJ 0882
15	120.57	ZAHO, XIAOYONG & YANG, QING 3 SUMMER COTTAGE LANE FRANKLIN PARK, NJ. 08823	4.08 2	357	MAS, GARY & ANGELINE M BISHOP WILLOWRROOK ROAD TH BRUNSWICK, N.I. 08902	4.34	46	HIDDEN LAKE PUD OWNERS ASSN INC 35 CLYDE ROAD, SLITE 102 SOMERSET, N.I.	4.44	2.7905	ULLRICH, MATTHEW 87 COODWIN DRIVE NORTH BRUNSWICK, NJ O
5	120.58	HART, ROBERT 540 DEER CREEK COURT	4.0B 2	1 GE	IN, IRFNF REFNSVIEW COLIRT TCH PLAINS, NJ 07076	4.34	46.01	LAMONT, ITA B. 176 NATHAN DRIVE NORTH BRUNSWICK, NJ 08902	4.44	2.7906	PORWAL, PRAFULLA K & F 88 COODWIN DRIVE NORTH BRUNSWICK, NJ O
15	120.59	JACKSON, NJ 08527 282 MILLOWBROOK DRIVE CO 282 MILLOWBROOK DRIVE RORTH BRUNSWICK, NJ 08902	4.08 2	361	ELIO, MICHELE L WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.02	SMITH, EVELINA 174 NATHAN DRIVE NORTH BRUNSWICK, NJ 08902	4.44	2.8001	CARRINGTON, LYNETTE 89 COODWIN DRIVE NORTH BRUNSWICK, NJ 0
15	120.60	GOBIN, PREYA 272 WILLOWEROOK DRIVE	4.08 2	363	JING & WANG, WEIBO WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.03	MK ASSOCIATES C/O R. KESSLER 433 RIVER ROAD HICHLAND PARK, NJ 08004	4.44	2,8002	SUBRAMANIAN, BALA & VI. 8 PLEASANT VALLEY WAY PRINCETON JCT, NJ 0855
15	120.61	NORTH BRUNSWCK, NJ 08902 BLITSHTEYN, YEFIM & EUZABETH 250 174TH STREET APT 1615	4.08 2	365	MAN WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	1.31	16.01	ACOMNO, JUNE T & OSUCH, JOHN 170 NATHAN DRIVE NORTH BRUNSWICK, NJ 08902	4.44	2.8003	BUENO, LUIS & STELLA 35 RAYMOND STREET EDISON, NJ 08817
15	120.62	NORTH MIAMI BEACH, FL. 33160 MACKLER, JACK R 4 ARLIVE COURT	4.08 2	351	ENBERG, DARALYN WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.05	NEGINSKY, ALEXANDER & AVIVA 168 NATHAN DRIVE NORTH BRUNSWICK, NJ 08002	4.44	2.8004	PADMANABHAN, JITESH & 92 COODWIN DRIVE NORTH BRUNSWICK, NJ 0
5	120.63	ROCKVILLE, MD 20854 GOKHALE, PRIYANKA & VIKRAM 278 WILLIOWEROOK DRIVE	4.08 2	349	DUK, PRZEMYSLAW WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.06	STOLYAR, LORA & PHIL 166 NATHAN DRIVE NORTH BRUNSWICK, NJ 08902	4.44	2.8005	93 GOODWIN DRIVE LLC 1435 RED WOLF DRIVE ROCKWALL, TX 75087
5	120.64	NORTH BRUNSWICK, NJ 08902 RAMU, RAVI & MAHADEVAN, MYTHILI 268 WILLOWBROOK DRIVE	4.08 2	347	EN, WENDY WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.07	SHRESTHA, SUJIT 164 NATHAN DRIVE NORTH BRUNSWICK, NJ 08902	4.44	2.8006	THOMAS, ROMAINE 94 COODWIN DRIVE NORTH BRUNSWICK, NJ. O
15	120.65	NORTH BRUNSWICK, NJ 08902 HANSON, CHRISTOPHER & CORDON SALLIE 276 WILLOWBROOK DRIVE	4.08 2	7.60 LACA	ANNA, JAMES & SCHATEL, NANCY WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.08	RUSSO, EUGENE & MARYBETH 162 NATHAN DRIVE NORTH DRUNSWICK, NJ 00902	4.44	2.8007	PARIKH MAHESH P. & NEE 95 COODWIN DRIVE NORTH BRUNSWICK, NJ 00
5	120.66	NORTH BRUNSWICK, NJ 08902 SHAH, APRIT 252 WILLOWBROOK DRIVE	4.08 2	7.61 AMIN 343	I, JAY WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.09	ADILDSKOV, KIRSTEN & WELDY, PIPER 160 NATHAN DRIVE NORTH BRUNSWICK, NJ 08902	4.44	2.8008	KLUGHERZ, RICHARD E. 96 GOODWIN DRIVE NORTH BRUNSWICK, NJ. OI
5	120.67	NORTH BRUNSWICK, NJ 08902 ODONNELL, CWEN 260 WILLOWBROOK DRIVE	4.08 2	7.62 SOUI	MAN, MONA WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.34	46.10	ALIGAEN, PURITA L. 150 NATHAN DRIVE NORTH BRUNSWICK, NJ 00902			MIDDLESEX COUNTY PLANN COUNTY ADMINISTRATION D 75 DAYARD STREET
5	120.68	NORTH BRUNSWICK, NJ 08902 DSOUZA, SUSANNA	4.08 2	7.63 LUTA 339	W., LAURA WILLOWBROOK DRIVE	4.34	125.01	SCHMIDT, CHARLOTTE 1290 SCHMIDT LANE NORTH DRUNSWICK, NJ 00902			NEW BRUNSWICK, NJ 0890 NORTH BRUNSWICK TOWNS
5	120.69	258 WILLOWBROOK DRIVE NORTH BRUNSWICK, NJ 08902 BRAVERMAN, MARK & PANITCH, IRINA	4.08 2	7.64 CHOI	TH BRUNSWCK, NJ 08902 I, JONGHAN & SEOUNCAH WILLOWBROOK DRIVE	4.	34	125,02 NORTH BRUNSWICK TOWNSHIP 710 HERMANN ROAD NORTH BRUNSWICK, NJ. 08902			710 HERMANN ROAD NORTH BRUNSWICK, NJ OF ATTN: TOWNSHIP CLERK
		19 FISHER ISLAND COURT MONROE TWP, NJ 08831	4.08 2	NOR	TH BRUNSWICK NJ 08902 DSKY, TATIANA TRUST	4.44	2	GOVERNOR'S POINTE II CONDO ASSN 45 CLAY STREET			PUBLIC SERVICE ELECTRIC MANAGER -CORPORATE PR 00 PARK PLACE, TGD
5	120.70	PRIMOST, ELENA 89 HIDDEN LAKE DRIVE NORTH BRUNSWICK, NJ 08902	4.08 2	NOR'	WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902 LIPS, BENJAMIN	4.44	2.6504	NORTH BRUNSWICK, NJ NATTE, GOWTHAM RAJA			NEWARK, NJ 07102 VERIZON NJ GEN. TAX ADMINISTRATI
5	120.71	PANELLA, MICHAEL 264 WILLOWBROOK DRIVE NORTH BRUNSWCK, NJ 08902	4.08 2	305	WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.44	2 6505	60 GOODWIN DRIVE NORTH BRUNSWICK, NJ 08902 JALE, SHRUTHI			DROAD STREET -ROOM 30 NEWARK, NJ 07101
5	120.72	LISNER, JOSHUA 254 WILLOWBROOK DRIVE NORTH BRUNSWICK, NJ 08902	4.08 2	307	DY, WILLIAM & MARCARET WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902			61 GOODWIN DRIVE NORTH BRUNSWICK, NJ 08902			CADLEVISION OF RARITAN 275 CENTENNIAL AVENUE PISCATAWAY, NJ 08855—6 ATTN: MARGURITE PRENDER
5	120.73	BARVE, ANKUR & NEHA 262 WILLOWBROOK DRIVE	1.08 2	300	ROWSKI, MAREK & MONIKA WILLOWBROOK DRIVE TH BRUNSWICK, NJ 08902	4.44		PUTHENVEETIL, VIJAY K & VIJAY, AMPILY 62 GOODWIN DRIVE NORTH BRUNSWICK, NJ 08902			DEPARTMENT OF TRANSPOR
		NORTH BRUNSWICK, NJ 08902	4.08 2	.69 RHA	TIA. ALIT & HARJEFT	4.44	2.6507	SWAMINATHAN, R & RAJAMANI, S			1035 PARKWAY

		SHEET INDEX
SHEET #	DWG. #	TITLE
SHEET 1	CV-1	COVER SHEET
SHEET 2	0P-1	OVERALL PLAN
SHEET 3	EC-1	EXISTING CONDITIONS PLAN
SHEET 4	SP-1	ENGINEERING SITE PLAN
SHEET 5	LL-1	LANDSCAPE, LIGHTING & TREE REPLACEMENT PLAN
SHEET 6	SE-1	SOIL EROSION & SEDIMENT CONTROL PLAN
SHEET 7	SED-1	SOIL EROSION & SEDIMENT CONTROL DETAILS (1)
SHEET 8	DE-1	CONSTRUCTION DETAILS (1)
SHEET 9	DE-2	CONSTRUCTION DETAILS (2)

OWNER & APPLICANT

Hidden Lake Towne Center LLC 433 River Rd Highland Park, NJ 08904

APPROVI	ED BY
CHAIRMAN	DATE
SECRETARY	DATE
ENGINEER	DATE

	(B)
_	CALL BEFORE 100
	E STATE OF NEW JERSEY REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON EPARING TO DISTURB THE EARTH'S



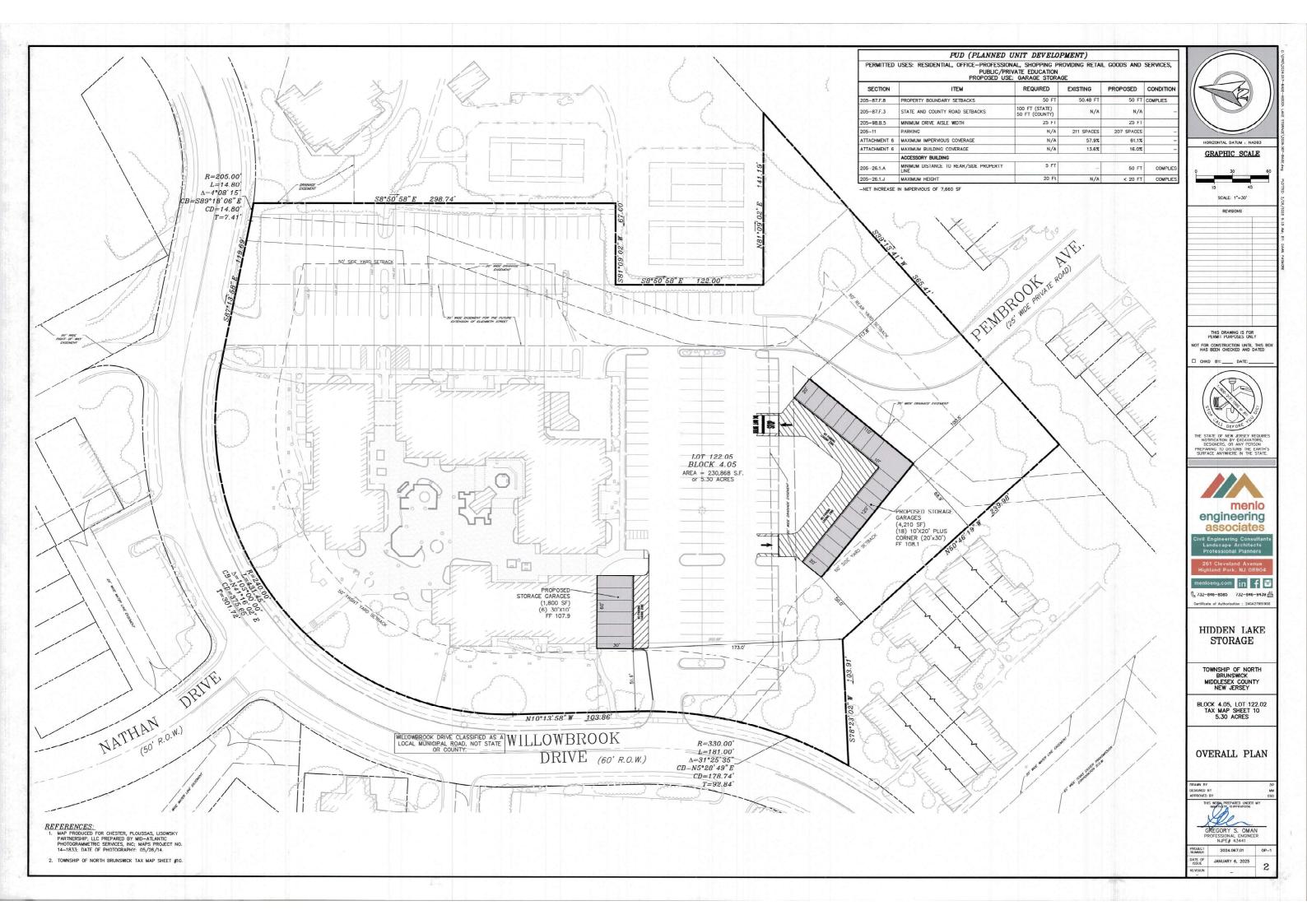
HIDDEN LAKE STORAGE

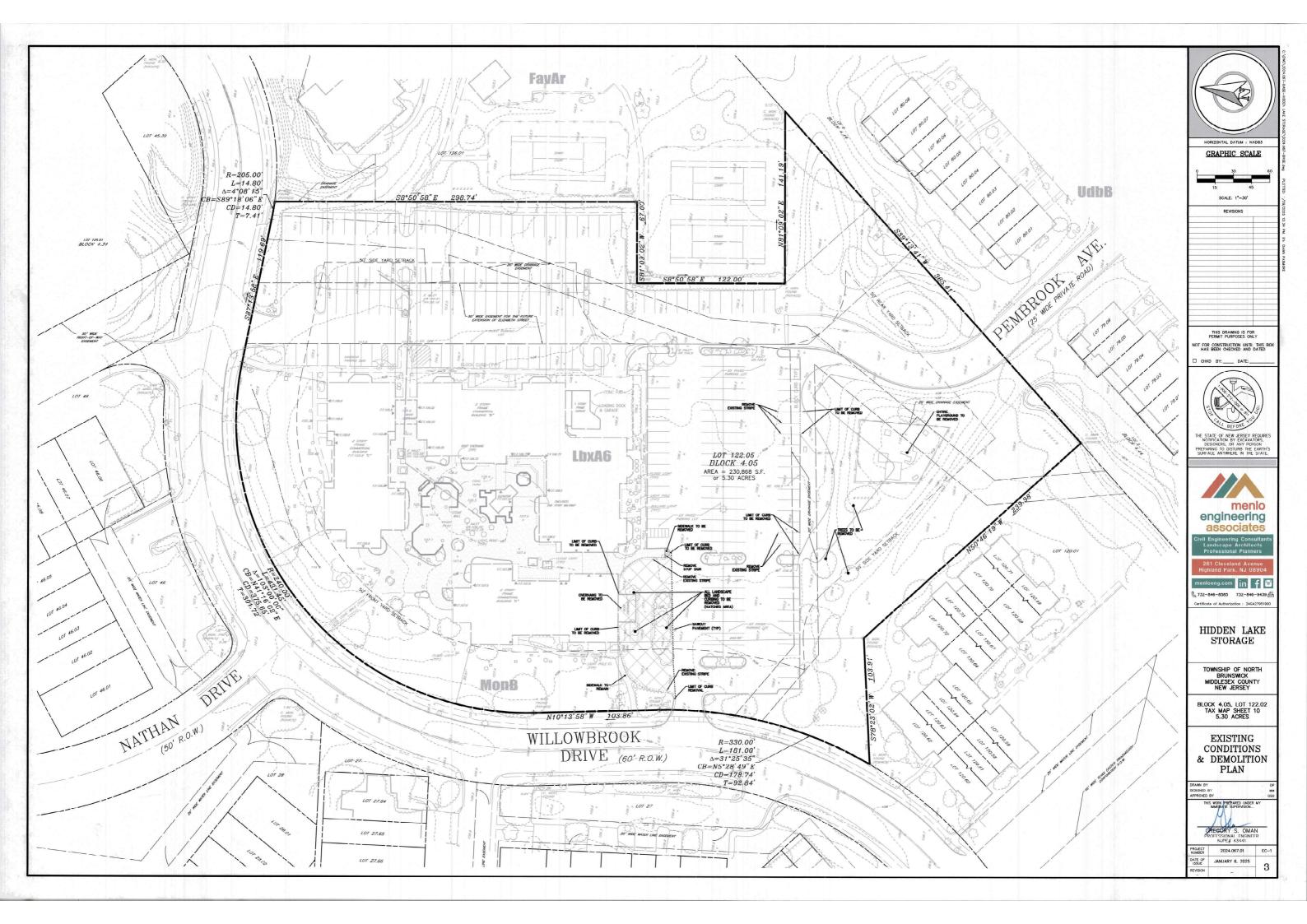
TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY NEW JERSEY

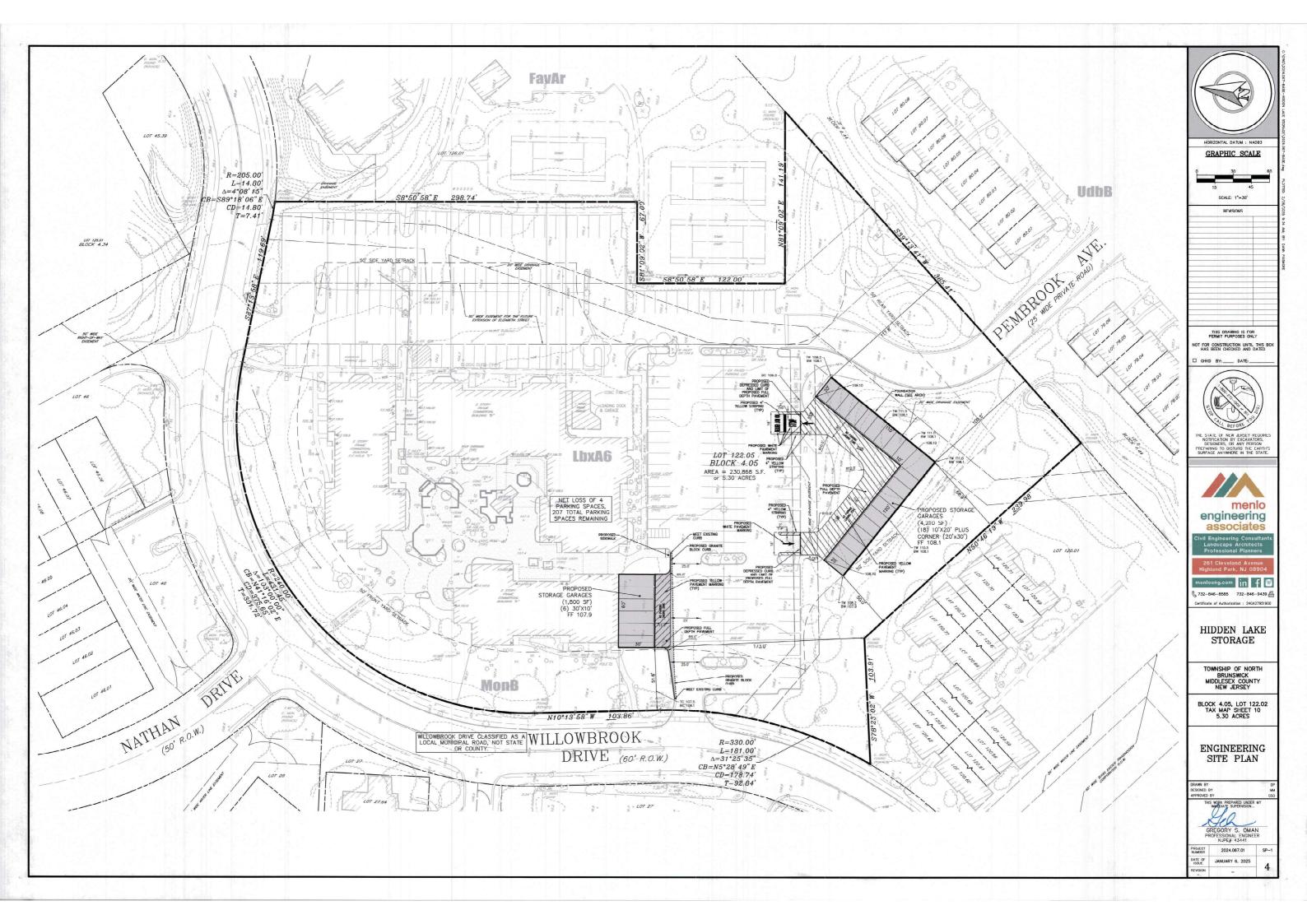
BLOCK 4.05, LOT 122.02 TAX MAP SHEET 10 5.30 ACRES

COVER SHEET

JANUARY 6, 2025









LIGHTING SCHEDULE:

LABEL QUANTITY TYPE OF MOUNT WATTAGE / COLOR / DRIVER HEIGHT DISTRIBUTION CATALOG NUMBER

WALL PACK

25.4 WATTS LED / 3,000 K / 450 mA 8,75' *

* ABOVE FINISHED FLOOR (CONTACT MANUFACTURER FOR EXACT LIGHT FIXTURE AND POLE SPECIFICATIONS.)

LOADING ZONE

PLANT SCHEDULE

CODE	aty	BOTANICAL NAME	COMMON NAME	MATURE SPREAD	MATURE HEIGHT	CALIPER	PLANTING HT.	TYPE	REMA
DECIDU	JOUS T								
GLTS*	1	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER THORNLESS LOCUST	40'	50'	2.5-3" CAL.	12-14'	B¢B	STRAIGH
EVERG	REEN .	TREES							
THPC	49	THUJA PLICATA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	15'	30'		6-7'	B#B	STRAIGH
CODE	aty	BOTANICAL NAME	COMMON NAME	MIDTH	HEIGHT	PLANTING WIDTH	PLANTING HT.	TYPE	REMAR
SHRUBS	2								1 17 11
RHAR	31	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	8'	3'	18-24"		#5 CAN	DENSE, V
* TRE	E PROV	IDED FOR TREE REPLACEMENT							BRANCH

LIGHTING NOTES:

- A CONCRETE FOOTING BELOW FINISHED GRADE, SHALL BE INSTALLED FOR EACH BY STRUCTURAL ENGINEER.
- LIGHT FIXTURES AND POLES TO DE INSTALLED AS FER HANDAGTURERS' SPECIFICATIONS.
- PARKING AREA LIGHTING CONTROLS SHALL BE PHOTOCELL ACTIVATED AND TIMES DEACT OPERATION.
- ALL CIRCUIT DIAGRAMS AND ELECTRICAL PLANS FOR EXTERIOR LIGHTING TO SERVICE PANEL SHALL BE DESIGNED BY INTERIOR LIGHTING CONTRACTOR/DIGINED.
- . THIS PLAN WAS PRODUCED USING LIGHTING ANALYSIS ASI PROGRAM WITH THE APPROPRIATE PHOTOMETRIC PILES SUPPLIED BY GOOPER LIGHTING SOLUTIONS.
- THE CONTRACTOR SHALL FIELD YERIFY EXISTING OVERHEAD PIRES FOR CLEARANCE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT/DISINEER FOR ANY CONFLICTS PRIOR TO ORDERING LIGHTING EQUIPMENT.

- O. THIS PLAN IT TO BE UTILIZED FOR LIGHTING PURPOSES ONLY. REFER TO BUILDING MEP OR ELECTRICAL CONTRACTOR AND PLANS TO DETERMINE REQUIRED VOLTAGES AND REQUIRED SPECIFICATIONS FOR ALL SITE LIGHTING.

GENERAL LANDSCAPE NOTES:

- NO SUBSTITUTIONS IN THE PLANT LIST IS TO BE MADE UNLESS AUTHORIZED BY THE LANDSCAPE AS BY THE CONNER AND THE TOWNSHIP.
- ALL DISTURBED AND PERMANENT TURF AREAS SHALL BE SEEDED WITH A SENERAL PURPOSE MIXTURE SIMIL AR TO THE FOLLOWING, SCS SEED MIX #4 (TALL TURF FESCIE KENTUCKY BLIEGRASS, PERSINIAL RYEGRASS) OR APPROVED EQUAL. SEE SCS DETAIL SHEETS FOR SEEDING SPECIFICATIONS.
- ALL PLANTING BEDS TO BE MILCHED WITH (3) INCH MINIMUM MULCH (SEE PLANTING NOTE #20), MULCH VOLCANOES (MOUNDS)
 AROUND TREES ARE PROHIBITED.
- LAWN AREAS SHALL MAINTAIN A MINIMM SLOPE OF 28 AND A MAXIMUM OF (3) FEET HORIZONTAL TO (1) FOOT VERTICAL AND COMPACTED AREAS SHALL BE TILLED TO A DEPTH OF EIGHTEDN (16) INCHES.
- SHRIB PLANTING ISLANDS, PARKING AREA ISLANDS AND FOUNDATION PLANTING BEDS SHALL RECEIVE A MINIMUM OF (2) FEET OF TOPSOIL MIXTURE MEETING OR EXCEEDING THE MINIMUM NUDOT SPECIFICATIONS.
- ALL FLANT MATERIALS LOCATED PITHIN SIGHT TRIANSLES AND PARKING LOT ISLANDS SHALL BE MAINTAINED NOT TO EXCEED A MAXIMUM OF (36) INCHES ABOVE PAYEMENT AND TREES SHALL BE LIMBED TO MAINTAIN A MINIMUM CLEARANCE OF (1) FEET ABOVE THE TOP OF USES OR SIDEMALK FOR SIGHT VISIBIL IN.
- TO THE PROPERTY OF CHIEF OF THE PROPERTY OF SECURITY OF ENGINE REPRESENCE ITSLIFES IN THE VICINITY OF THE CORRECT OF THE PROPERTY OF THE PROP

- IS. ALL PLANTED MATERIAL SHALL BE REQUIRED TO BE LABELED AND TAGGED AT THE TIME OF PLANTING, THE PLANT TAGGED AT THE TIME OF PLANTING, AND ACCURATE POOR APPROVAL.

		TREE INVE	NTORY	
•	(INCHES)	SPECIES	CONDITION	STATUS
	12"	PEAR	FAIR	TO BE REMOVED
	H.	PEAR	FAIR	TO BE REMOVED
	10.	PINE	FAIR	TO BE REMOVED
	6*	JUNIPER	FAIR	TO BE REMOVED
	6.	JINPER	FAIR	TO BE REMOVED
	q.	PINE	FAIR	TO BE REMOVED
	14"	CHERRY	FAIR	TO BE REMOVED

NOTES.

1. NO SPECIMEN TREES PROPOSED TO BE REMOVED.

2. TREES UNDER 6" TO BE REMOVED NOT COUNTED FOR TREE REPLACEMENT.

TREE REMOVAL & REPLACEMENT CALCULATIONS:

TOWNSHIP ORDINANCE SECTION 205-10.6.0.2 TABLE DJ REQUIRES THE POLLOWING REPLACEMENT FOR TREES 6"-23" TO SE REMOVED.

EXISTING TREE TO REMAIN

TREE NUMBER

TOTAL MODDED AREA ON-SITE: 21,521 97 (0.44 ACMES)
MODDED AREA TO BE REMOVED: 1,644 97 (0.04 ACMES) OR T.4 % OF TOTAL MODDED AREA
MOS SPECIMEN INTERES TO BE REMOVED FROM CHI-SITE

LESS THAN 20% OF TREE REMOVAL REQUIRES ION REPLACEMENT OF REMOVED TREES.

OTAL TREES REMOVED: (1) TREES BETWEEN 6"-29" DPM TO BE REMOVED REPLACEMENT TREES REQUIRED: 10% X (1) TREES = (1) REPLACEMENT TREE REQUIRED

IOTES

DIPH = DIAMETER AT POINT OF MEASURE INSTALLEMENT TRIES OF 4" CALIFER OR LESS TO BE MEASURED 6" ABOVE THE ROOT BALL).

REPLACEMENT INSESS REQUIRED TO BE 25" DRY

REPLACEMENT THESE REQUIRED TO BE 25" DRY

REPLACEMENT THESE REQUIRED TO BE 25" DRY

TO REPLACEMENT THESE REQUIRED TO BE 25" DRY

TO REPLACEMENT THESE REQUIRED TO BE 25" DRY

THESE PROPRIES AND THESE REQUIRED AND THE PRINCIPLE AND THE PROPRIES OF THE PROPRIES OF

S8°50'58" E 122.00' LOT 122.05 BLOCK 4.05 AREA = 230,868 S.F. or 5.30 ACRES WOODED AREA TO BE REMOVED: 1644 9F (0.04 ACRES) #4 W 103.86' WILLOWBROOK R=330.00 L=181.00' Δ=31°25'35" CB=N5°28'49"E CD=178.74' T=92.84 TREE REPLACEMENT PLAN SCALE: 1" = 30"





SCALE: 1"-30"

REVISIONS

IOT FOR CONSTRUCTION UNTIL THIS BO HAS BEEN CHECKED AND DATED





menloeng.com in f

HIDDEN LAKE STORAGE

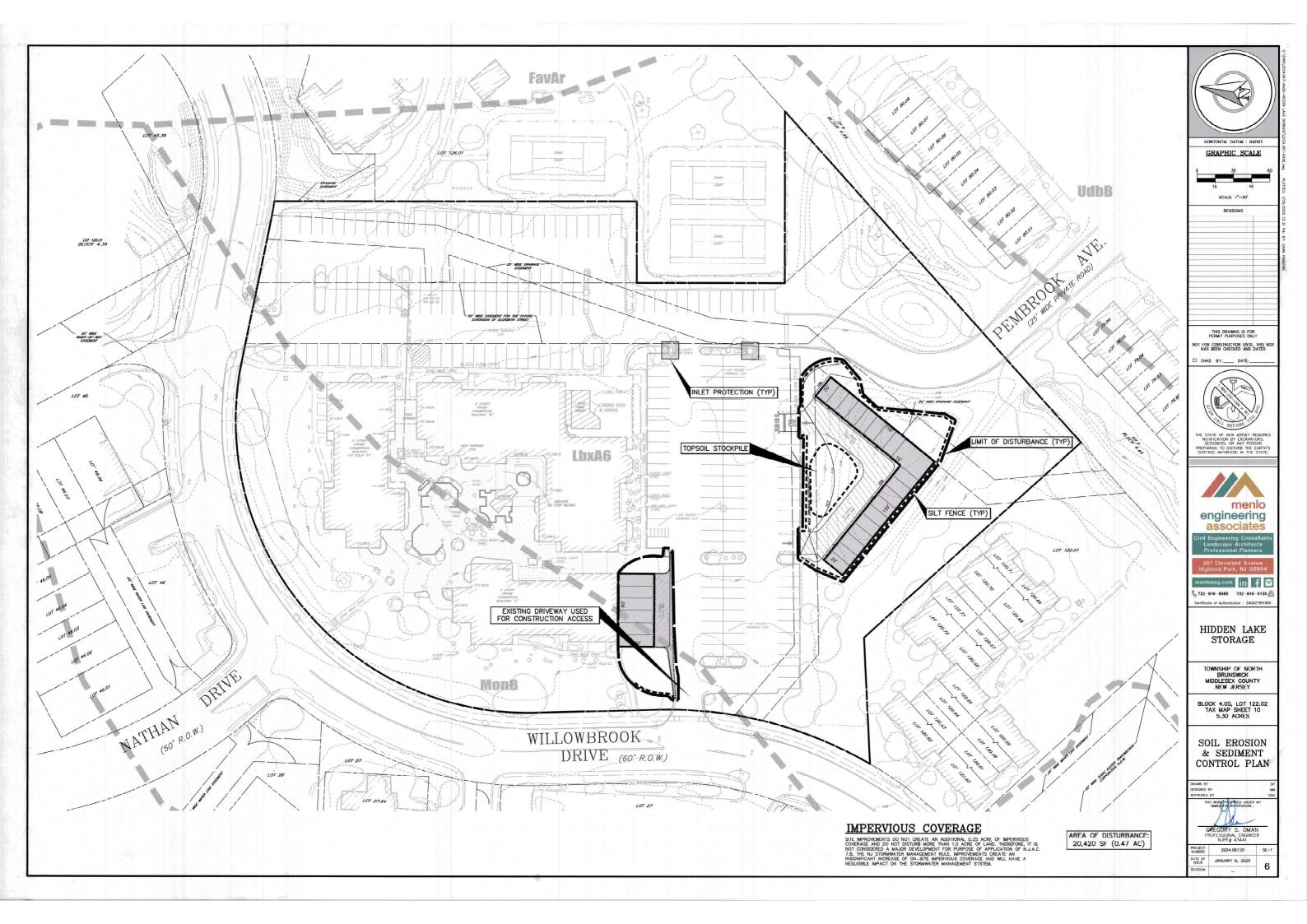
TOWNSHIP OF NORTH BRUNSWICK
MIDDLESEX COUNTY
NEW JERSEY

BLOCK 4.05, LOT 122.02 TAX MAP SHEET 10 5.30 ACRES

LANDSCAPE. LIGHTING & TREE REPLACEMENT PLAN

KENNETH R. GRISEWOOD LANDSCAPE ARCHITECT NJ LICENSE #ASO00071

2024.067 LL-1 DATE OF JANUARY 6, 2025 5



STANDARD FOR PERMANENT VEGETATIVE COVER

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.

B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.

C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUCH TO WORK WITHOUT DAMACING THE SOIL STRUCTURE. A UNFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL DE AMENDED WITH ORGANIC MATTER, AS INCEDED, IN ACCORDANCE WITH STANDARD FOR TOPSOILING.

INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

2. SEEDBED PREPARATION

B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL ARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNITAL A REASONABLE UNIFORM SECEDED IS PREPARED.

A SELECT A MUTURE FROM TABLE 4-2 OR USE A MUTURE RECOMMENDED BY RUITERS COOPERATIVE EXTENSION OR NATURE RESIDENCE COMERMANION SERVICE WHICH IS PROPRISE BY THE SELECT CONSERVATION DISTRICT SELECT COMMANION SHALL HAVE BEEN TESTED WHICH IS MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMANITION TEST DATE MORE THAN 12 MONTHS COL UNLESS RETENED.

1. SEEDING RATES SPECIFIED ARE REQUIRED WIEN A REPORT OF COMPULANCE IS REQUESTED PRIOR TO ACTUAL ESTRALISHMENT OF PERMANENT YEOGETATION. UP TO SOR REDUCTION IN RATES MAY DE USED WILD PERMANENT YEOGETATION IS ESTRALISHED PRIOR TO A REPORT OF COMPULANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING, ESTRALISHING PERMANENT YEOGETATION MEANS SOR VECETATIVE COVERAGE WITH THE SPECIFIED SEED MIXINGH FOR THE SUEED MEAN AND WINGHOUGH.

WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALL' 85°F AND ABOVE. SEE TABLE 4-2 MIXTURES 1 TO 7. PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY CREMINATION TESTING RESULTS.

3. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 85F. MANY GRASSES BECOME ACTIVE AT 650F. SEE TADLE 4-2, MIXTURES 6-20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE MOUNT OF PLS 1S NOT REQUIRED FOR COOL. SEASON GRASSES.

B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (ENTRIFUGAL) SEEDER, DIRUL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED. HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDERD PREPARATION TO A DEPTH OF 1/4 TO 1/7 INCH, BY RAKING.

D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN ACITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARRY SEPDIRED, MILICH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT—FIBERED MULCH MAY BE APPLIED

MULCHING IS REQUIRED ON ALL SEEDING, MULCH WILL PROTECT AGAINST EXCISION BEFORE, GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT, THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEBUED COMPULANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY, UNROTTED SMALL CRAIN STRAW, HAY FREE OF SEEDS, TO BE APPUED AT THE RATE OF 1-1/2 TO 2 TO FER ROBE (70 TO 90 POUNDS FER 1,000 SQUARE, FEET), EXCEPT THAT WHICE A GRIMPER IS USED INSTEAD OF A LUQUID MULLCH-HORDER (FACKFIT MOR AUTHOR). THE RATE OF A PPUED LIGHT IS 1 STORY PER ACE. MULLCH CHOPPER-BLOWERS MUST NOT CRIND THE MULCH HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION — SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND—SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 7 OT 90 POUNDS WITHIN EACH SECTION.

ANCHORING SHALL BE ACCOMPUSHED 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

MULCH NETTINGS - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOMED.

(a) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS, THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE. (b) USE ONE OF THE FOLLOWING

(1) ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER-BASED, HYDROPHILD MATERIALS MEET MEED WITH WITH FORMULAIES A GE, AND WHEN APPLED TO MULCH MORRE SATISFACTIORY CORNICO CONTROL AND MATERIALS AS AND WOT RESULT IN A PHYTOTOMIC SETTOR INFECTE CONTROL OF THE FORMULA OF THE FORMULA OF THE FORMULA OF THE FORMULA OF THE MATERIALS AND WOT RESULT IN A PHYTOTOMIC SETTOR INFECTE CONTROL OF THE THE MATERIALS AND WOT RESULT IN A SECONMENDED BY THE MANUFACTURER TO MACHOR MULCH MATERIALS MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED PRIFITER VALILATION FOR USE IN THIS STATE WAS AND THE MATERIALS MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED PRIFITER VALILATION FOR USE IN THIS STATE OF

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES THIS DOES NOT CONSTITUTE A RECO THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

0. WOD THEST OF THEST MULDI. SULL, IE WAS FIRM MODE, CHAIF TERSES OR PLACE CONTAINED NO DOWN MODE (SEMBLAND MEETING MAN MODELS, 1925). IT IN THIS TO 7.00 FOR DOWN OF PRINCIP OR ST EXCLUSIONED OF THE PRODUCT MANUFACTURERY AND MAY BE APPLIED BY A INTROSEDER, MULCI STALL NOT IE, MOSED IN THE LIAKS WITH SEED, USE IS MURTED TO FLATER SO, SOPES AND DURNE OF PIRMS OF PRINCIP SERVICE PRINCIPAL THE TO THE LIAKS WITH

WATERO, FORM A BUILD MAT. PELLETIZED MULCH SHALL BE APPLED IN ACCORDANCE WITH THE MANUFACTUREYS RECOMMENDATIONS MULCH MAY BE APPLED BY HAND OR MECHANICS, SPREADER AT HE RATE. OF 60 -75 LBST, JOURN SQUARE FET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER, MISS MATERAL HAS BEEN FOUND TO BE BENEFOLK WHERE STRAW MULCH AND TAGGREFA ACKIT ARE NOT PRACTICAL OR DESTRABLE. APPLY MORE THE TO 0.4 INCHE OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY MIPORTANT FOR SUFFICIENT ACTIVATION AND DEPARAGING OF THE MULCH OF DROWING SALE.

5. IRRIGATION (WHERE FEASIBLE)

IF SOIL MOSTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINMAIM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNITL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR IN DEQULIFYY SITES.

6. TOPDRESSING

7 ESTABLISHING PERMANENT VEGETATIVE STABILIZATION

THE QUALITY OF DEMANDED VECTATION RESTS WITH THE CONTRACTOR. THE THINKS OF SEEDING, PROGRAMME THE SEEDS APPLYING NUMBERS MALICH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN THE 4-2 ARE REQUIRED. WHEN A SECOND OF COMPLIANCE IS REQUIRED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT MECETATION. BECOMES WHEN A SECOND OF CONTRACT OF THE PROGRAMMENT AND ADMINISTRATION OF THE ACTUAL PROGRAMMENT OF THE ACTUAL PROGRAMMENT AND ADMINISTRATION OF THE ACTUAL PRO <u>LOF COMPLIANCE</u> FROM THE DISTRICT, THESE RATES APPLY TO ALL METHODS OF SEEDING, ESTABLISHING PERMAN TION MEANS BOX VEGETATIVE COVER (OF THE SEEDED SPECIES) AND MOWED ONCE, NOTE THIS DESIGNATION OF IN DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECIED OR

STANDARD FOR TOPSOILING

TOPSOILING ENTAILS THE DISTRIBUTION OF SUITABLE QUALITY SOIL ON AREAS TO BE VECETATED.

WATER QUALITY ENHANCEMENT

WIERE APPLICABLE

TOPSOIL SHALL DE USED WHERE SOILS ARE TO BE DISTURBED AND WILL BE REVEGETATED.

TOPSOIL SHOULD BE FRIABLE, LOAMY?, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY DE HARMPUL TO PLANT GROWTH, SQUIDLE SALTS SHOULD NOT DE CXCESSIVE. (CONDUCTIVITY LESS THAN 0.5 MILLIMHUS PER CENTIME-LER, MURE: HARN 0.5 MILLIMHUS PER CENTIME-LER, MURE: HARN 0.5 MILLIMHUS MAY DESIGCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT, ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICION TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION, ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL MOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUDLE SALTS AND PHI LEVEL.

2. STRIPPING AND STOCKPILING

A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

B. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.

C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5.

D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR

E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED 30 AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.

3 SITE PREPARATION

THE ESSENCE

B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE SEE THE STANDARD FOR LAND GRADING, PC. 19-1.

AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.

PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING. PG. 19-1.

EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 IHROUGH 42.

A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5.0 INCHES, MINIMUM OF 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHITER SPECIAL REQUILATORY, AND/OR INDUSTRY DESIGN STANDARDS ARE APPROPRIATE SUICH AS ON GOLF COURSES, SPORTS FIELDS, LANDRILL CAPPING, ETC. SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING NOT SUTHOR SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL MAY A PH OF 3.0 OR MORE, IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL (Fig. 1-1).

FRIABLE MEANS EASILY CRUMBLES IN THE FINCERS, AS DEFINED IN MOST SOILS TEXTS.

LOADY MEANS TEXTURE GOODPS CONSISTING OF COARSE LOAMY SANDS, SANDY LOAM, FINE AND

VCDY THE SANDY LOAM, LOAM, SLIT LOAM, CLAY

LOAM, SANDY CLAY LOAM AND SLIT CLAY LOAM TEXTURES AND HAVING LESS THAN 35% GOARSE

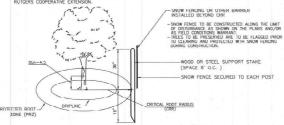
FRACMENTS (PARTICLES LESS THAN 2MM IN SIZE) AS DEFINED IN THE GLOSSARY OF SOIL SCIENCE

TERMS, 1998, SOIL SCIENCE SOURTY OF AMERICA.

CRITERIA FOR PROTECTING REMAINING TREES:

GENERAL MECHANICAL DAMAGE - SEE BELOW FOR CORRECT ROOT ZONE CALCULATION AND PLACEMENT OF TREE PROTECTION 2. BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO PREVENT MECHANICAL INJURY, FENCING OR OTHER BARRIER SHOULD BE INSTALLED BEYOND THE CRITICAL ROOT RADIUS. TREE ROOT SYSTEMS COMMONLY EXTEND WELL BEYOND THE DRIP LINE.

3. BUARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.



BH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5 FEET ABOVE

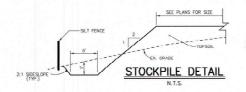
1. MEASURE THE DBH (DIAMETER OF THEE 2. S. TREE) IN INCHES.

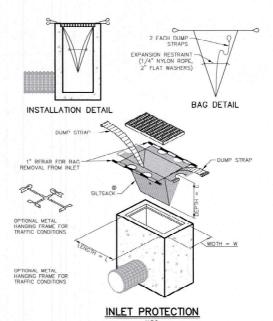
2. MULTIPLY MEASURED DDH DY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET. DBH X 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.

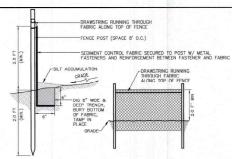
TREE PROTECTION

SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- A MLIS, A 2-2-10 ET SCO ECRARISC TIAIN NO REFIRENCES OF COLUMNAY DE INSIET REFIRE THE ENTIRED INTERNAL A SPRIECT DO POPTION TRESPORT IN RETIRED AND MANUAUNCE WITH THE CESTRINGS PLAN AND STRANGANCE FOR SOLD ENDOIS SEDIMENT CONTROL IN NEW JESSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WHICH CONDITIONS ON A LOT—B-V-LOT OF SECTION—PURPORT OF COMPLIANCE WHICH CONDITIONS ON A LOT—B-V-LOT OF SECTION—PURPORT OF THE OFFICE AND AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLU-PROVISIONS FOR STRADILLATION AND STE MORE.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. SOIL STOCKPIES, STEEP SLOPES AND ROLDWAY EMBANKHENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OF A SUTTABLE EQUIVALENT, AND A MULCH OFFA AN ACCORDANCE WITH STATE STANDARDS.
- A SUB-BASE COURSE WILL BE APPLIED MANEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILEZ STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WARER NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIRSTEN US) DAYS OF THE PRELIMINARY PROMING.
- ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RICHT-OF-WAYS WILL BE REMOVED IMMEDIATELY. 10. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
- AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOLL OR THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE ORGUNO COPER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY AUDIST IT BE SUL COUNTITIONS AND RENDER IT SUITABLE FOR VEGETATIVE ORGUNO COVER, IF THE REMOVAL OR TREATMENT OF THE SOLL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEAN OF PERMANENT FORMOR STREAMS WILL HAVE TO BE EMPLOYED.
- 13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- 14 UNFILTERED DEWATERING IS NOT PERMITTED NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING 15. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
- 17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6
- 18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.







POSTS SHALL BE SPACE 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST TWO (2) FEET INTO TH AND EXTEND AT LEAST TWO (2) FEET ABOVE GROUND, POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM IN HICKNESS OF 11 MODIES.

A METAL FENCE WITH 6-INCH OR SMALLER OPENINGS AND AT LEAST TWO (2) FEET HIGH MAY BE UTILIZED. FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEO-TEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.

SILT FENCE 1-1/2" X 3/8" WOOD LATH

FOR CONSTRUCTION UNTIL THIS E





MULCH ANCHORING: HYDROMULCH OR APPROVED FOUAL (USE RATES AS RECOMMENDED BY MANUFACTURER) ROJES.

1) FOR ADDITIONAL REQUIREMENTS RETER TO THE SES STANDARD FOR PERMANENT VEGETATIVE COVER.

2) THE FERTILIZER AND LIMESTONE RATES REPRESENT THE UNTESTED SES REQUIRED RATES. FINAL RATES SUBJECT TO SUIL PENILITY, PH ANALYSIS AND LAB RECOMMENDATIONS.

350 LB/AC

THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

INLET PROTECTION DETAIL

SEEDING RATES

CONSTRUCTION SEQUENCE

CONSTRUCTION COMMENCEMENT DATE: SPRING 2025

TEMPORARY SEEDING (NOT FOR ACIDIC SOILS HAVING A PH OF 4 OR LESS)

PERMANENT SEEDING (NOT FOR ACIDIC SOILS HAVING A PH OF 4 OR LESS)

MULCHING: UNROTTED SALT HAY OR APPROVED EQUAL 1 1/2 to 2 TONS/AC

TURF-TYPE TALL FESCUE
(3 CULTIVAR BLEND)
KFNTUCKY BLUFCRASS (BLFND)
PERENNIAL RYECRASS (BLEND)

SEED MIX: PERENNIAL RYEGRASS 200 LD/AC

SCS SEED MIX #14

2 DAY(S) 2 DAY(S) 1 DAY 5. PAVEMENT SUB-BASE -1 WEEK 6. FINISHED GRADING AND LIGHTING -7. FINAL PAVEMENT -2 DAY 3 DAY(S)

THE ABOVE SCHEDULE SUBJECT TO WEATHER CONDITIONS AND MATERIAL AVAILABILITY.

FOR CLARIFICATIONS AND ADDITIONAL INFORMATION SEE THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION JANUARY 2014, REVISED JULY 2017 CONSTRUCTION DETAIL NOTES ALL TRAFFIC SIGNS AND PAVEMENT

CURRENT EDITION OF THE MANUAL O

UNIFORM TRAFFIC CONTROL DEWCES (WUTCO).
ALL OOMSTRUCTION DETAILS SHALL OS SUPERCEDED BY APPLICABLE DEVELOPMENT OF A POLICIA STRUCTURAL DETAILS UNITES OTHERWISE NOTED. STRUCTURAL DETAILS ARE PROMOED FOR INFORMATIONAL PURPOSES ONLY TO THE TOWNSHIP ENGINEE FOR ALL WALLS AND STRUCTURAL ELEMENTS PRIGG TO CONSTRUCTION. PORNINGEN OF AN ALL PRECAST STRUCTURES PRIOR TO CONSTRUCTION. PROMOED TO THE ORDERNO OF MATERIALS. DETAILS ASSUME APPROPRIATE LOAD ERRON CONTROL TO THE ORDERNO OF MATERIALS. SECONDARY OF THE ORDERNO OF MATERIALS. SECONDARY OF THE ORDER O

ALL CONSTRUCTION DETAILS ARE NOT TO SCALE (N.T.S.) UNLESS OTHERWISE NOTED.

REVISIONS THIS DRAWING IS FOR

32-846-8585 732-846-9439 £ ertificate of Authorization: 24GA27951900

HIDDEN LAKE STORAGE

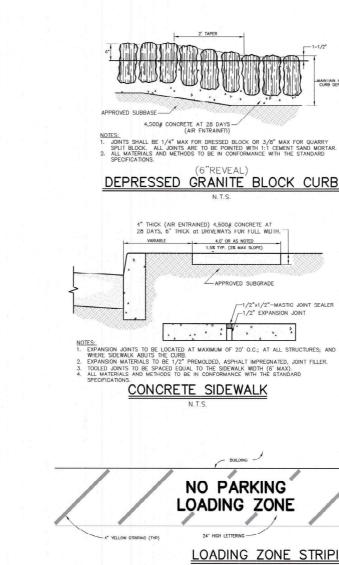
TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY NEW JERSEY

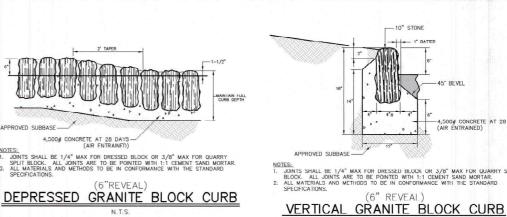
BLOCK 4.05, LOT 122.05 TAX MAP SHEET 10 5.30 ACRES

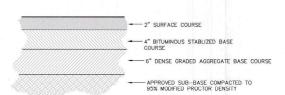
SOIL EROSION & SEDIMENT CONTROL DETAIL (1)

GREGORY S. OMAN 2024.067.01

DATE OF JANUARY 6, 2025 7

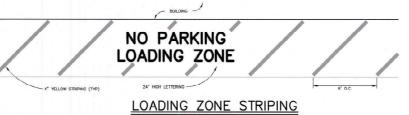






NOTES: 1. NOT A DESIGN PAVEMENT, SUBJECT TO ON-SITE SOILS TESTING. 2. ALL MATERIALS AND METHOUS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

(4 LAYER) PAVEMENT SECTION



(6"REVEAL)

4.0' OR AS NOTED 1.5% TYP. (2% MAX SLOPE)

APPROVED SUBGRADE

CONCRETE SIDEWALK

-1/2"x1/2"-MASTIC JOINT SEALER -1/2" EXPANSION JOINT

DO NOT ENTER DO NOT ENTER STRIPING DETAIL



STRAIGHT

STOP BAR PAVEMENT MARKING



THIS DRAWING IS FOR PERMIT PURPOSES ONLY

CONSTRUCTION DETAIL NOTES

GEOTECHNICAL ENGINEER.
RESIDENTIAL DEVELOPMENTS SHALL
CONFORM TO DETAILS WITHIN THE
CURRENT EDITION OF THE RESIDENTIA
SITE IMPROVEMENT STANDARDS
(R.S.I.S.).
ALL CONSTRUCTION DETAILS ARE NOT
TO SCALE (N.T.S.) UNLESS OTHERWISE
MOTED.



oeng.com in f 😇 32-846-8585 732-846-9439

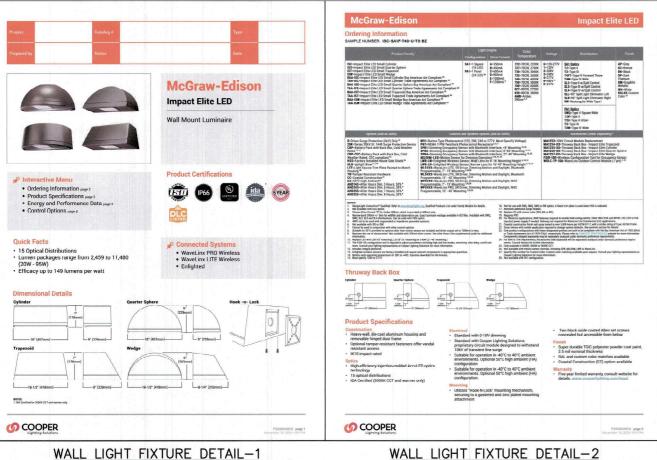
HIDDEN LAKE STORAGE

TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY NEW JERSEY

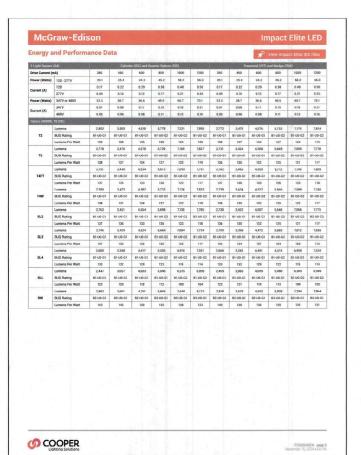
BLOCK 4.05, LOT 122.05 TAX MAP SHEET 10 5.30 ACRES

CONSTRUCTION DETAILS (1)

2024.067.01 DATE OF ISSUE JANUARY 6, 2025



WALL LIGHT FIXTURE DETAIL-2 N.T.S.



N.T.S.

WALL LIGHT FIXTURE DETAIL-3

STAKING DETAIL

NOTES:
1) CONTRACTOR SHALL
PARTIALLY FILL WITH WAT
A REPRESENTATIVE # OF
PITS IN FACH AREA OF T
PROJECT PRIOR TO PLANT
TO DETERNINE IF THESE
ADEQUATE PERCOLATION. STAKES TO BE 1/2 TO 1/3 HEIGHT OF THE TREE MEASURED FROM THE GROUND. INSTAL STAKES WITH "ARBOR TREE-TIES" OR EQUAL
(3) STAKES PER TREE SHALL BE LIGHTLY STAKES TO BE NOTCHED TO RECEIVE -+ A's FLEXIBLE PERFORATED
HOPE TREE DRAIN TO
STORM WATER SYSTEM
WITH CLEAN CRUSHED
STONE AND FILTER FABRIL
WRAPPED ON ALL SIDES. 3" DOUBLE SHREDDED HARDWOOD BARK MULCH. DO NOT PLACE MULCH AGAINST STEM. BACKFILL MIXTURE TO BE SPECIFIED BASED ON— SOIL TEST AND CULTURAL REQUIREMENT OF PLANT. BACKFILL SHALL BE WATERED 12" AT A TIME, WHILE PLANTING. DRIVE STAKE 2' MINIMUM INTO UNDISTURBED -SOIL OUTSIDE OF THE PLANTING HOLE. TREE DRAIN TO BE USED WHERE SOIL CONDITIONS UNDISTURBED MOUND OF 3" OF COMPACTED SOIL.

DECIDUOUS TREE PLANTING DETAIL

TREE BALL PLAN CENTER LEADER SHALL NOT BE CUT OR DAMAGED.

-- INSTALL STAKES WITH "ARBOR TREE-TIES" OR APPROVED EQUAL. (3) STAKES PER TREE TIES SHALL BE LIGHTLY FITTING.

BACKFILL MIXTURE TO BE SPECIFIED BASED ON SOIL TEST AND CULTURAL REQUIREMENT OF PLANT BACKFILL. S BE WATERED 12" AT A TIME, WHILE PLANTING.

EVERGREEN TREE PLANTING DETAIL

SECTION

SHRUB SHALL BEAR SAME -3" DOUBLE SHREDDED HARDWOOD BARK MULCH COVERING THE ENTIRE PLANTING BED, DO NOT PLACE MULCH AGAINST THE STEM

SHRUB PLANTING DETAIL

2886 3886 3886 J886

GROUNDCOVER PLANTING DETAIL

PLANTING NOTES

THE FOLLOWING RECOMMENDED PLANTING PERIODS SHOULD BE ADHERED TO WHENEVER POSSIBLE: 1) BROADLEAF AND CONIFEROUS EVERGREEN TREES, SHRUBS, VINES AND GROUND COVERS SHALL BI PLANTED BETWEEN AUGUST 15th AND SETWEEN AND BETWEEN APRIL 15th AND MAY 15th. DECIDIOUS TREES, SHRUBS, VINES, GROUND COVERS AND PERENNALS SHALL BE PLANTED BETWEEN MOCTORER 15th AND NOW-WEBER 15th AND BETWEEN MAY 15th ATTES PLANTING SEASONS MAY BE EXTENDED OR SHORTENED ACCORDING TO PREVAILING WEATHER CONDITIONS, SOIL CONDITIONS, AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT.

4) THE CONTRACTOR WILL EXAMINE ALL FIELD CONDITIONS FOR EXACT LOCATIONS OF UTILITIES. DRAINAGE SYSTEMS AND IRRIGATION SYSTEMS AND ADJUST PROPOSED PLANTINGS ACCORDINGLY. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER DEPTH OF TOPSOIL IN ALL AREAS AND THE PROVISION OF POSITIVE DRAINAGE. THE CONTRACTOR SHALL NOTIFY THE CLIENT, ENGINEER, AND/OR LANDSCAPE ARCHITECT OF ANY DETRINENTAL DRAINAGE HAZAGN, INCLUDING BUT NOT LIMITED TO INSUFFICIENT TOPSOIL, ETC. PRIOR TO THE INSTALLATION OF ANY MATERIALS, INCLUDING LAWN AREAS.

5) THE CONTRACTOR WILL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ALL SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL STATE CONDITION AND SUBMIT A PROPOSSL, POR CORRECTION IF FEASIBLE.

6) PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND NAIMES COLLINY AND SIZE OF PLANTS, SPEEAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE MOST RECENT ANS 760 "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSER/METH, INC.

7) PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

8) GUARANTEE OF PLANT OROWTH. ALL PLANTS AND TREES SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN MOGROUS GROWING CONDITION. PROVISION SHALL BE GUARANTEED RY THE CONTRACTOR TO RECEIVE AND THE ARCOVERY AND THE DATE OF A LEAST ONE (1) YEAR FOR TREES AND SHRIBES FROM THE DATE OF FINAL ACCEPTANCE OR AS REQUIRED BY THE TOWNSHIP. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEF FOUAL TO THE AROVE STATED.

10) IF PLANT AVAILABILITY IS RESTRICTED, SUBSTITUTIONS MAY BE MADE WITHIN PLANT TYPE TO MAINTAIN SIMILAR GROWTH AND ORNAMENTAL QUALITIES UPON NOTIFICATION AND APPROVAL BY THE LANDSCAPE ARCHITECT.

11) PLANT LOCATIONS SHOWN ARE DIAGRAMMATIC. ALL PLANTS ARE SHOWN AT A SEMI-MATURE SIZE ON THE PLANS. THE STAKING LATOUT OF ALL PLANTINGS WILL BE INSPECTED BY THE CHANDSCAPE ARCHITECT PRIOR INSTALLATION AS REQUESTED BY THE OWNER.

12) AREAS DISTURBED BY LANDSCAPE OPERATIONS SHALL BE GRADED TO MATCH EXISTING. TOPSOIL AND SEED OR SOO AS REQUIRED.

14) ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL FREE OF DRY SOO, SIFF CLAY, LITTER, STONES IN EXCESS OF 1°8, ANY TOWNS, ETC., SHALL BE USED FOR PLANTING.

15) SET ALL PLANTS PLUMB AND STRAIGHT SET AT SUCH A LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONISHIE TO THE GROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTRAISHED. LOCATE THE PLANT IN THE CENTER OF THE TREE PIT.

16) IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFULIOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL ETC. THE MAIN LEADER TO TREES MUST NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED. TREES WITH THE CENTRAL LEADER PRUNED WILL BE REJECTED.

18) ALL TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING ALL TREES SIX (6) INCHES AND OVER IN CALIFER SHALL BE GUYED, WHILE SMALLER TREES SHALL BE STAKED. ARBOR TREE TIES AND STAKES SHALL BE INSTALLED AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ARBOR TREE TIES ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

19) THE TRUNKS OF ALL TREES SHALL HAVE CORRUGATED LDPE TREE GUARDS INSTALLED AS SOON AS POSSBILE AFTER PLANTING ACCORDING TO STANDARD PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF CORRUGATED LDPE TREE GUARDS ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

20) MULCH FOR PLANTING BEDS SHALL BE DOUBLE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SHALL HAVE NO LEAVES, YOUNG GREEN GROWTH, BRANCHES, TWIGS GREATER IN DIAMETER OF 1/2" & WEEDS, SHAVINGS OR FOREIGN MATERIAL SUCH AS STONES, ETC. SHALL BE MIXED WITH THE MULCH. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS WITH A COMPACTED DEPTH OF 3". NO MULCH SHALL BE PLACED ACAINST THE PLANT STEWL

21) WATER APPLIED TO SEEDED OR SOODED AREAS, PLANTS OR PLANTED AREAS SHALL BE FREE FROM IMPURITIES INJURIOUS TO VEGETATION AND APPLIED AT A RATE OF FIVE GALLONS OF WATER PER SOUARE YARD OF PLANT PIT.

22) FALL PLANTING HAZARDS: IT IS VERY RISKY TO TRANSPLANT THE FOLLOWING LIST OF TREES, BARE ROOT OR B&B IN THE FALL:

THE CONTRACTOR ASSUMES RESPONSIBILITY FOR PLANT SURVIVAL OF THESE MATERIALS IF MOVED DURING THE FALL SEASON.

23) TREES TO REMAIN ON-SITE TO BE SELECTIVELY THINNED AND PRUNED REMOVING ALL DEAD AND DISEASED LIMBS WHILE PROTECTED BY FENCING DURING CONSTRUCTION (SEE DETAIL). FENCE TO BE MAINTAINED DURING CONSTRUCTION BY CONTRACTOR.

24) THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.

25) ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-O' ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN ANY SIGHT TRIANGE EASEMENTS AND PARKING LOT ISLANDS SHALL NOT EXCED A MATUR HEIGHT OF 30' ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN ANY SIGHT TRIANGLE SHALL BE PRUVED AS MENTIONCED ABOVE.

26) SEE DETAIL DRAWINGS FOR TYPICAL PLANTING DETAILS.

27) ALL SHADE TREES, EVERGREENS, AND FLOWERING TREES SHALL BE PROVIDED WITH "TREEGATO' ORIGINAL OR JR. PRO" "TM WATERING BAGS, RINGS OR APPROVED EQUAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WATER TO ALL PLANTINGS AND LAWN AREAS UNTIL. FINAL

CONSTRUCTION DETAIL NOTES

(MUTCO).
ALL CONSINUCION DE IAILS SHALL IN
SUPPREDED BY APPLICABLE
MINICIPAL COUNTY OR STATE
DETAILS UNLESS OTHERWISE NOTED.
STRUCTURAL DETAILS ARE PROVIDED
FOR INFORMATIONAL PURPOSES ONLE
SHOP UNAWNINGS SHALL BE PROVIDED
TO THE TOWNSHIP ENGINEER FOR ALL

FOR INFORMATIONAL PURPOSES ONLY.

HOWEVER, SHALL BE PROVINED TO THE TOWNSHIP ENGINEER FOR ALL PREASTS.

SHOP DRAWNING SHALL BE PROVIDED TO THE TOWNSHIP ENGINEER FOR THE PROVIDED TO THE PROVIDED TO THE PROVIDED TO THE PROVINCE OF ALL PREASTS STRUCTURES PROVIDED THE PROVINCE OF ALL PREASTS.

DETAILS ASSUME APPROPRIATE LOAD BEARING CAPACITY AND COMPANION OF SOURS. ACTUAL PEED CONDITIONS OF SOURS. ACTUAL PEED CONDITIONS OF SOURS ACTUAL PROVIDED THE PROVIDED TH

(R.S.I.S.).
ALL CONSTRUCTION DETAILS ARE NOT TO SCALE (N.T.S.) UNLESS OTHERWISI NOTED.

REVISIONS

THIS DRAWING IS FOR PERMIT PURPOSES ONLY





nenloeng.com in f 🗟 R 732 846 8585 732 846 9439

Certificate of Authorization : 24GA2795190 HIDDEN LAKE

STORAGE

TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY NEW JERSEY

BLOCK 4.05, LOT 122.05 TAX MAP SHEET 10 5.30 ACRES

CONSTRUCTION DETAILS (2)

-	AWN BY												1
	SIGNED BY												8
API	PROVED BY									÷			G:
1	, THIS W										d'i	1	1
1.	- IMA	EDIA		501	E	2	151	OF	٧			1	
1		1			J	_	-	-	>			X	
	- OUL	V	1	<		4	=	Ş	U	_	7	٧	1
1	KENNE	TII	4				ic	-	· LA	11	V/	חח	٠,
1	LANDS												
		ENS								'	40		

2024.067.01 DE-2 OATE OF ISSUE JANUARY 6, 2025

N.T.S.