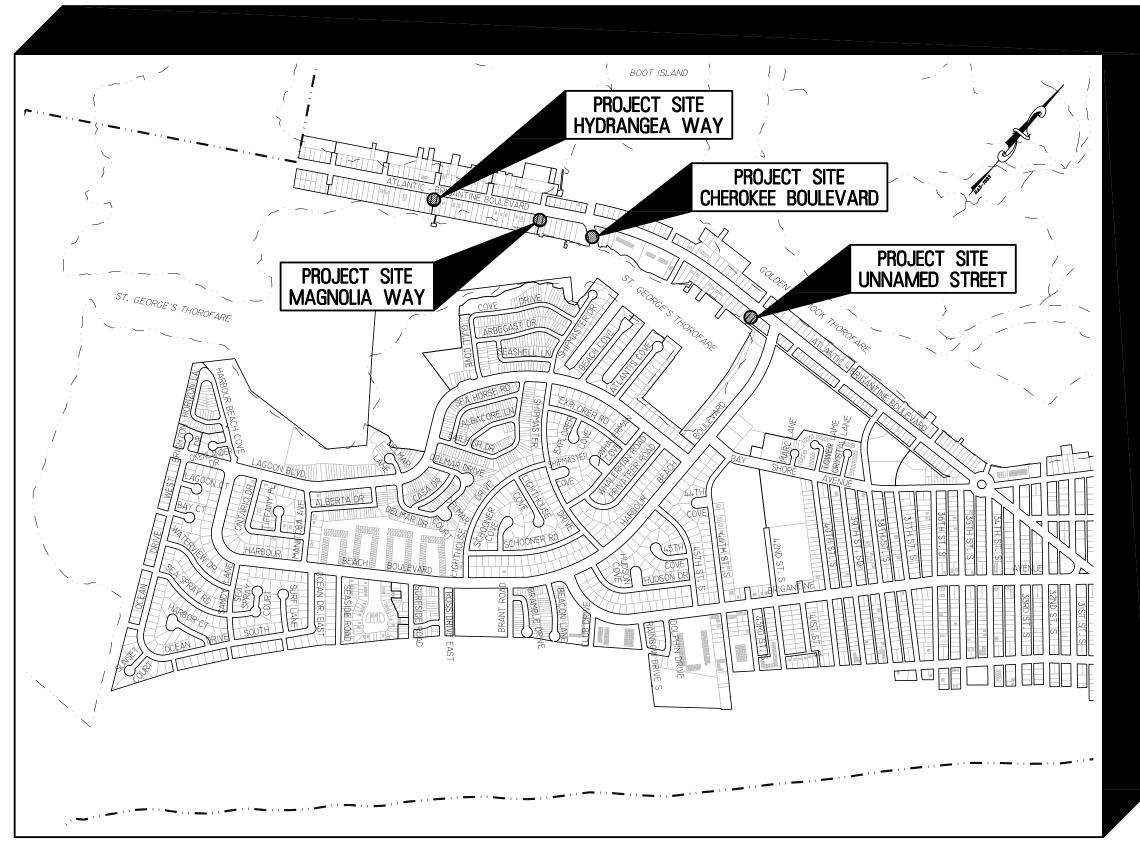
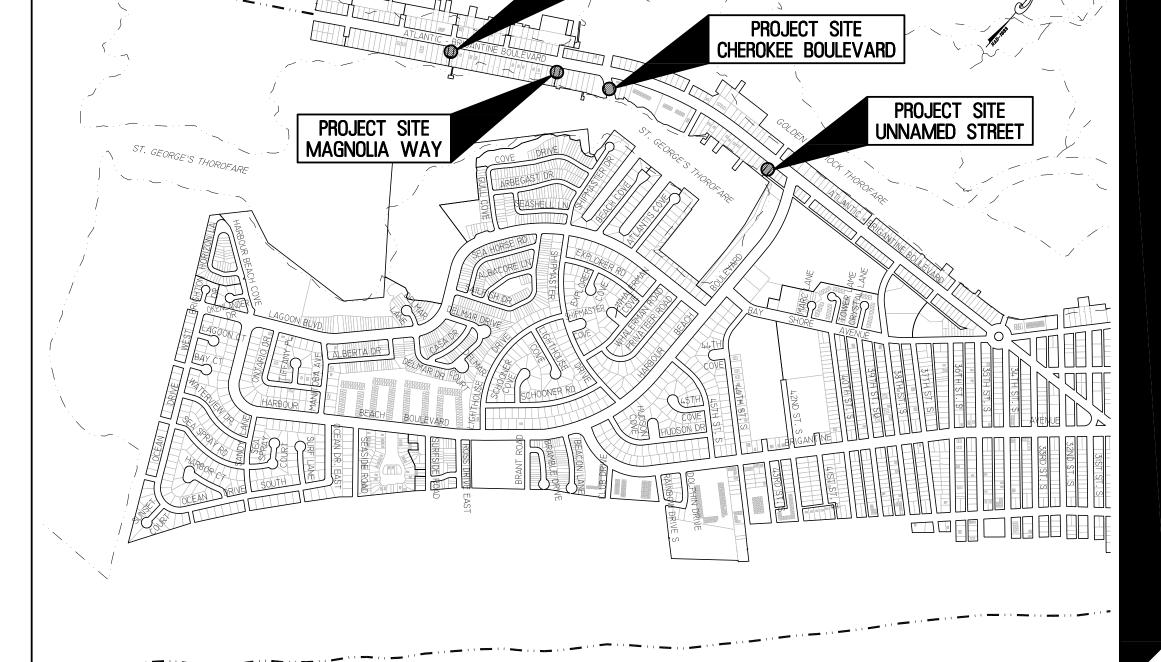
ATLANTIC-BRIGANTINE BOULEVARD SHORELINE STABILIZATION

	UTILITIES
CABLE:	COMCAST CABLE COMPANY 901 WEST LEEDS AVENUE ABSECON, NEW JERSEY 08201 (609) 677-7329
WATER & SEWER:	CITY OF BRIGANTINE BEACH PUBLIC WORKS DEPARTMENT 3605 BAYSHORE AVENUE BRIGANTINE, NEW JERSEY 08203 (609) 266-7800
GAS:	SOUTH JERSEY GAS COMPANY 111 NORTH FRANKLIN AVENUE PLEASANTVILLE, NEW JERSEY 08232 1-800-561-9000
ELECTRIC:	ATLANTIC CITY ELECTRIC 2542 NORTH FIRE ROAD EGG HARBOR TOWNSHIP, NEW JERSEY 08234 (609) 645-4780
TELEPHONE:	VERIZON - NEW JERSEY 11 SOUTH SHORE ROAD MARMORA, NEW JERSEY 08223 (609) 390-9950
ATLANTIC COUNTY ROADS:	ATLANTIC COUNTY DEPARTMENT OF PUBLIC WORKS ROUTE 9 & DOLPHIN ROAD NORTHFIELD, NEW JERSEY 08225 (609) 645-5830
ATLANTIC COUNTY UTILITIES:	ATLANTIC COUNTY UTILITIES AUTHORITY 6700 DELILAH ROAD EGG HARBOR TOWNSHIP, NEW JERSEY 08234 (609) 348-5500
UTILITY MARKOUT:	NEW JERSEY ONE CALL SYSTEM, INC. 1-800-272-1000



	INDEX
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SITE PLAN — HYDRANGEA WAY
3	PLANTING PLAN — HYDRANGEA WAY
4	SITE PLAN — MAGNOLIA WAY
5	PLANTING PLAN — MAGNOLIA WAY
6	SITE PLAN — CHEROKEE BOULEVARD
7	PLANTING PLAN — CHEROKEE BOULEVARD
8	SITE PLAN — UNNAMED STREET
9	PLANTING PLAN — UNNAMED STREET
10	DETAIL SHEET
11	SOIL EROSION & SEDIMENT CONTROL DETAILS



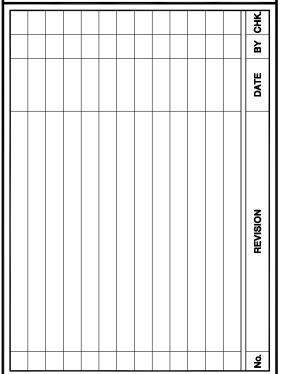
LOCATION MAP

DAYS IN DESIGN STAGE - STOP CALL New Jersey One Call System, Inc.

> CITY OF BRIGANTINE ATLANTIC COUNTY, NEW JERSEY

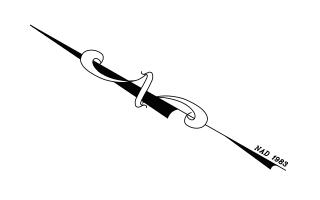
ENGINEERING EXCELLENCE SINCE 190

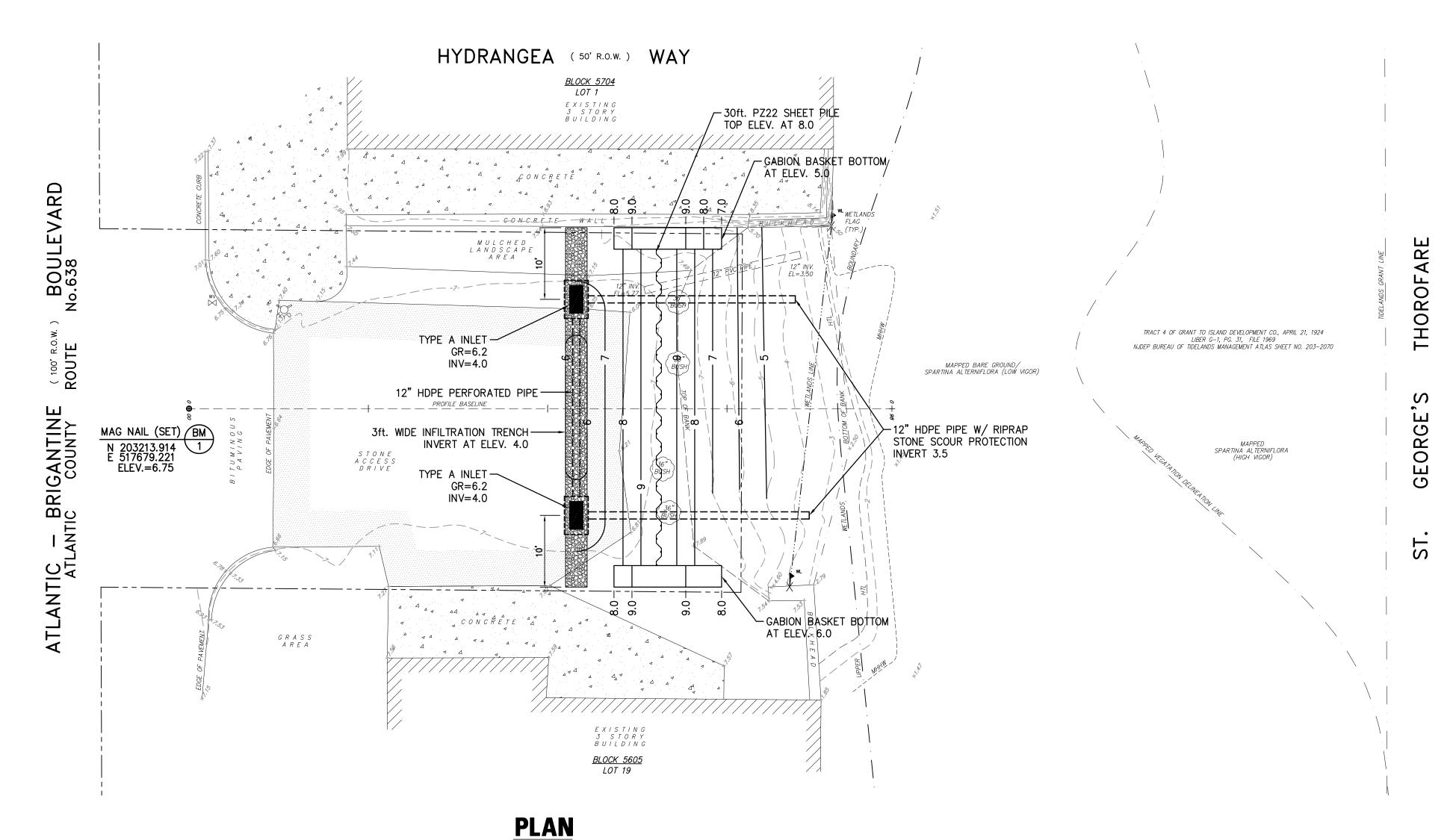
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ATLANTIC-BRIGANTINE BOULEVARD SHORELINE STABILIZATION

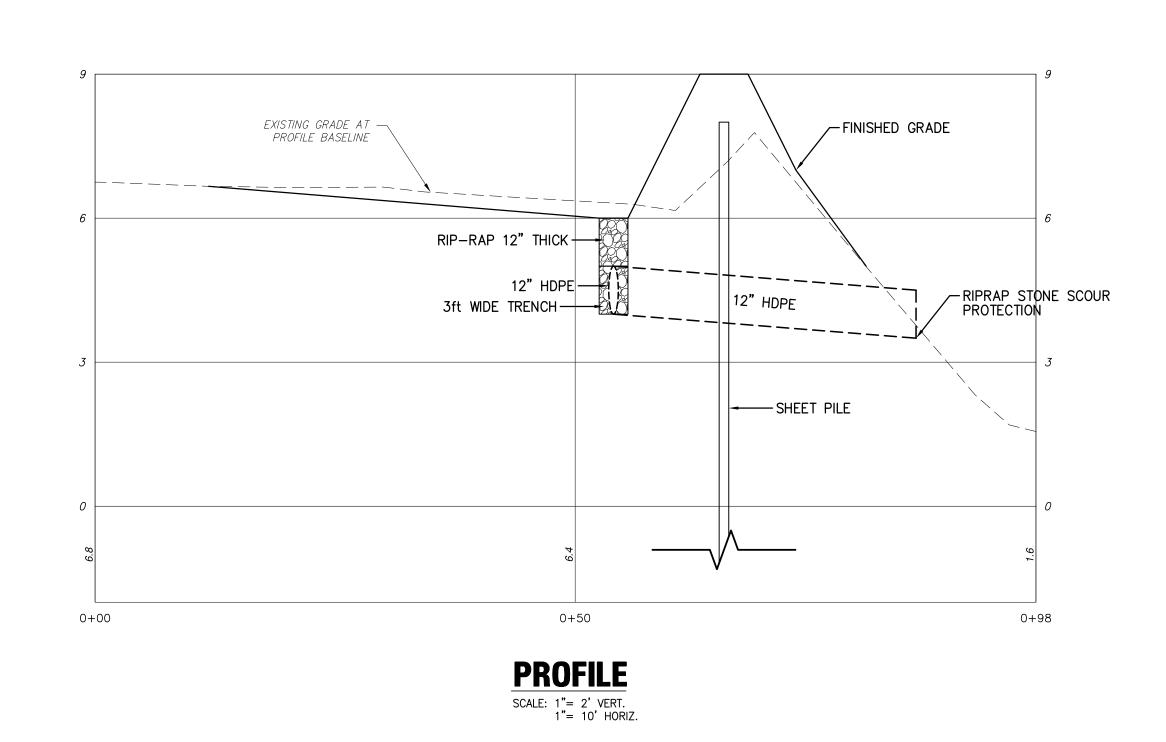
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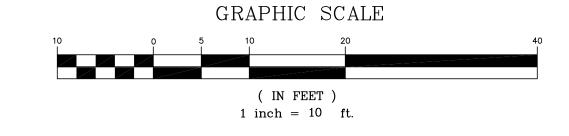


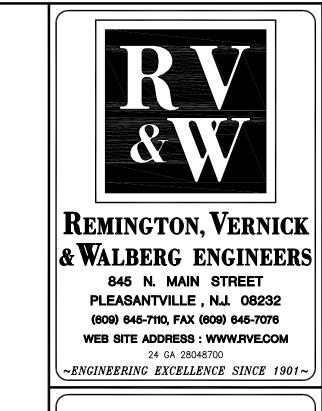


TIDAL	DATUM (NAVD-	-1988)
HTL	HIGH TIDE LINE	+2.14'
MHHW	MEAN HIGHER HIGH WATER	+1.72'
MHW	MEAN HIGH WATER	+1.33'
MTL	MEAN TIDAL LEVEL	-0.61'
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EDWARD J. WALBERG

NJ PROFESSIONAL ENGINEER LIC. No. 37259

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No. REVISION DATE BY CH

SITE PLAN — HYDRANGEA WAY

ATLANTIC—BRIGANTINE BOULEVARD
SHORELINE STABILIZATION

SHORELINE STABILIZATION

ATLANTIC COUNTY

CITY OF BRIGANTINE

NEW JERSEY

DRAWN BY: DESIGN BY: CHECKED BY: AS NOTED

DATE: SHEET NO:

JOB No.: Q1-03-U-004

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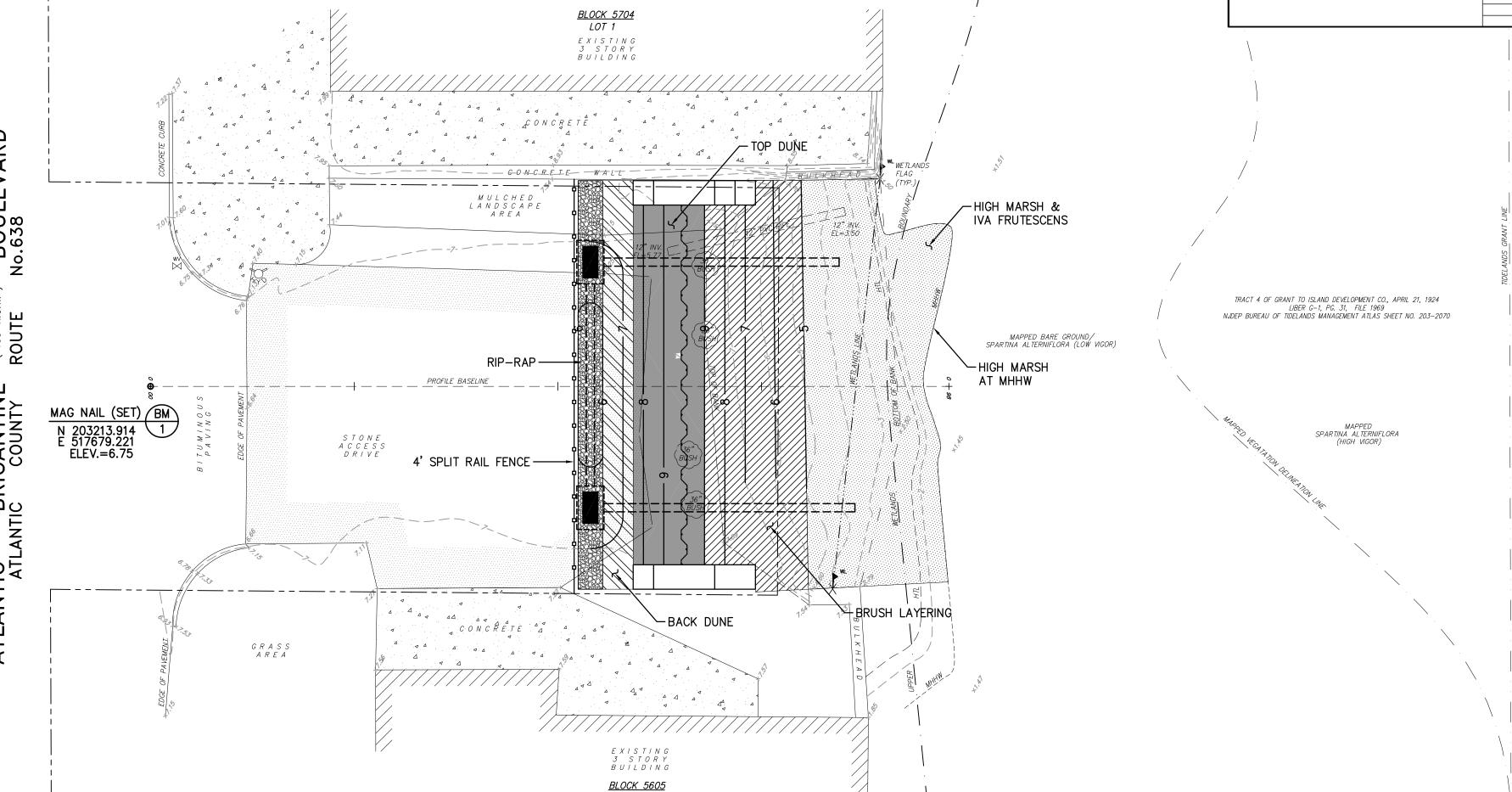


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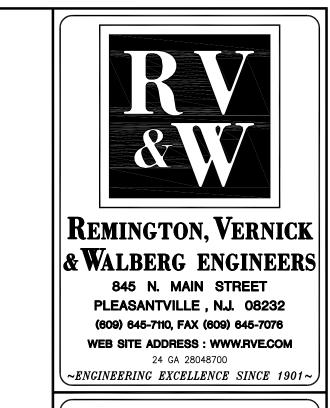
HYDRANGEA (50' R.O.W.) WAY

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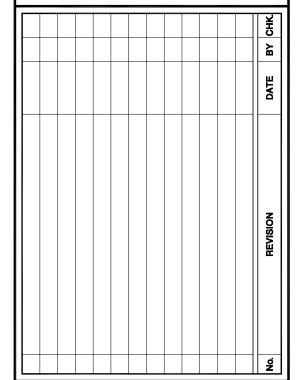
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PLANTING PLAN — HYDRANGEA WAY

ATLANTIC—BRIGANTINE BOULEVARD

SHORELINE STABILIZATION

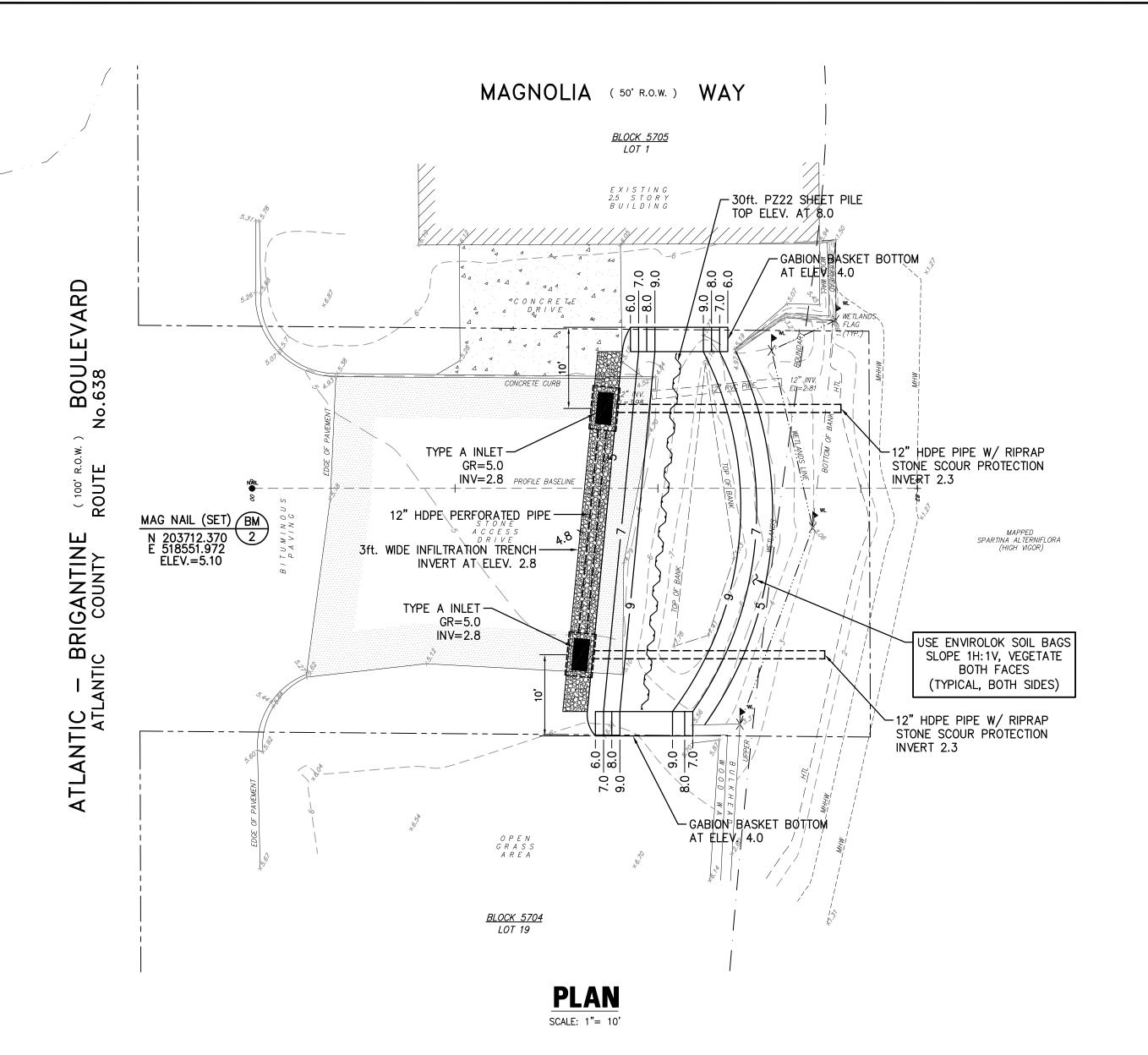
SHORELINE STABILIZATION

DRAWN BY: DESIGN BY: CHECKED BY: AS NOTED

DATE: SHEET NO:

JOB No.: O1-03-U-004

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0+00		0+50	0+82

SCALE: 1"= 2' VERT. 1"= 10' HORIZ.

TIDAL DATUM (NAVD—1988) HTL HIGH TIDE LINE +2.14' MHHW MEAN HIGHER HIGH WATER +1.72' MHW MEAN HIGH WATER +1.33' MTL MEAN TIDAL LEVEL -0.61' MLW MEAN LOW WATER -2.55' MLW MEAN LOWER LOW WATER -2.72'

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24 GA 28048700
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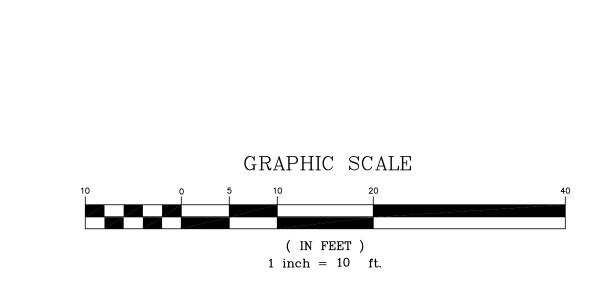
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ΑΥ	<u>6</u>	NEW JERSEY
SITE PLAN — MAGNOLIA WAY	ATLANTIC-BRIGANTINE BOULEVARD SHORELINE STABILIZATION	CITY OF BRIGANTINE
SITE PLAN -	ATLANTIC-BRI SHORELINI	COUNTY

DRAWN BY : J.S.	DESIGN BY: C.W.	CHECKED BY:	SCALE: AS NOTED
<u>DA</u> *	<u>re :</u>	_	T NO :
<u>JOB</u> 01-03-	<u>No. :</u> U-004	4 0	f 11
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ATLANTIC - BRIGANTINE (100° ROW) BOULEVARD ATLANTIC COUNTY ROUTE NO.638	MAG NAIL (SET) BM N 203712.370 E 518551.972 ELLEV.=5.10	TOP DUNE TOP DUNE WERNOS HIGH MARSH & IVA FRUTESCENS PARIMA DEPONITORA (HIGH MARSH AT MIHIW) BRUSH LAYERING
	BLOCK 5704 LOT 19	PLAN SCALE: 1"= 10'

COMMUNITY	SCIENTIFIC NAME	BLACK NEEDLE RUSH SALT HAY		
HIGH MARSH	JUNCUS GERARDII			
HIGH MARSH	SPARTINA PATENS			
FORE DUNE/HIGH MARSH	IVA FRUTESCENS	MARSH ELDER		
DUNE/MARITIME FOREST/BRUSH LAYER	BACCHARIS HALIMIFOLIA	GROUNDSELTREE		
DONE/MARITIME FOREST/BROSH LATER	MYRICA PENSYLVANICA	NORTHERN BAYBERRY		
DUNE/MARITIME FOREST	PANICUM VIRGATUM	SWITCHGRASS		
DONE/WARITIME FOREST	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM		
FORE/TOP DUNE	AMMOPHILA BREVILIGULATA	AMERICAN BEACHGRASS		
	OPUNTIA HUMIFUSA	PRICKLY PEAR		
TOP/BACK DUNE	HUDSONIA TOMENTOSA	WOOLLY BEACH HEATHER		
	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY		
	PRUNUS MARITIMA	BEACH PLUM		
	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD		
	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH		
BACK DUNE	ARONIA MELANOCARPA	BLACK CHOKECHERRY		
	AMELANCHIER CANADENSIS	SERVICEBERRY		
	GAYLUSSACIA BACCATA	BLACK HUCKLEBERRY		
	RHUS COPALLINUM	WINGED SUMAC		
	QUERCUS VELUTINA	BLACK OAK		
	QUERCUS PHELLOS	WILLOW OAK		
	ILEX OPACA	AMERICAN HOLLY		
MARITIME FOREST	NYSSA SYLVATICA	BLACKGUM		
MANUTIME I ONES I	QUERCUS RUBRA OR Q. FALCATA	RED OR SPANISH OAK		
	JUNIPERUS VIRGINIANA	RED CEDAR		
	PINUS RIGIDA	PITCH PINE		
	QUERCUS STELLATA	POST OAK		
	EUPATORIUM HYSSOPIFOLIUM	HYSSOP LEAVED BONESET		
	ROSA VIRGINIANA	VIRGINIA ROSE		
	ANDROPOGON VIRGINICUS	BROOMSEDGE		
MEADOW	ELYMUS VIRGINICUS	VIRGINIA WILDRYE		
IIILADOTT	ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS		
	RUDBECKIA HIRTA	BLACKEYED SUSAN		
	OENOTHERA FRUTICOSA	EVENING PRIMROSE		
	COREOPSIS LANCEOLATA	LANCELEAF TICKSEED		

THOROFARE

GEORGE'S

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GRAPHIC SCALE

(IN FEET)1 inch = 10 ft.

TRACT 4 OF GRANT TO ISLAND DEVELOPMENT CO., APRIL 21, 1924 LIBER G-1, PG. 31, FILE 1969 NJDEP BUREAU OF TIDELANDS MANAGEMENT ATLAS SHEET NO. 203–2070 PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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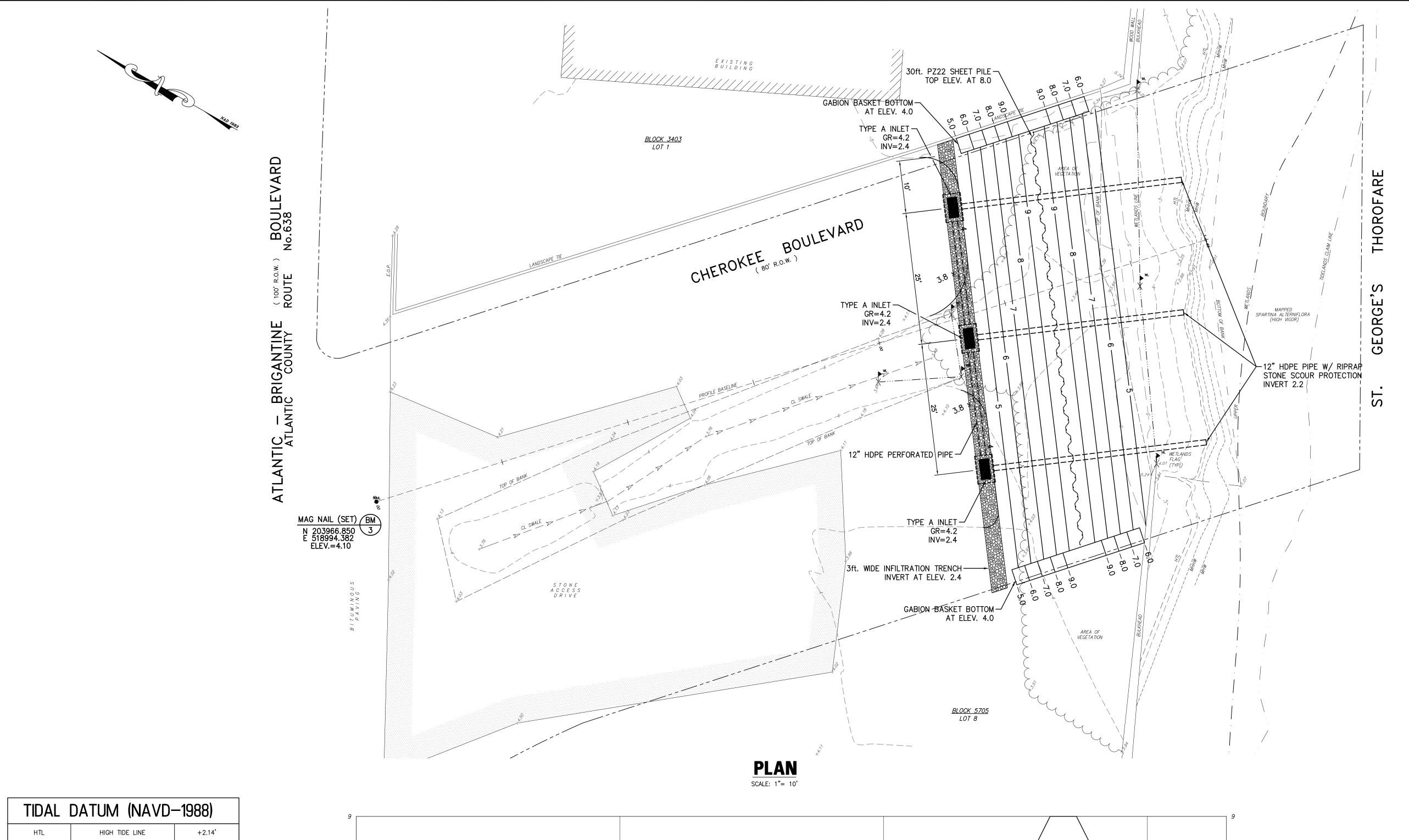
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J.S.	C.W.	EJ.W		AS	NOTE	D
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ATLANTIC-BRIGANTINE BOULEVARD SHORELINE STABILIZATION

SURVEY NOTES:

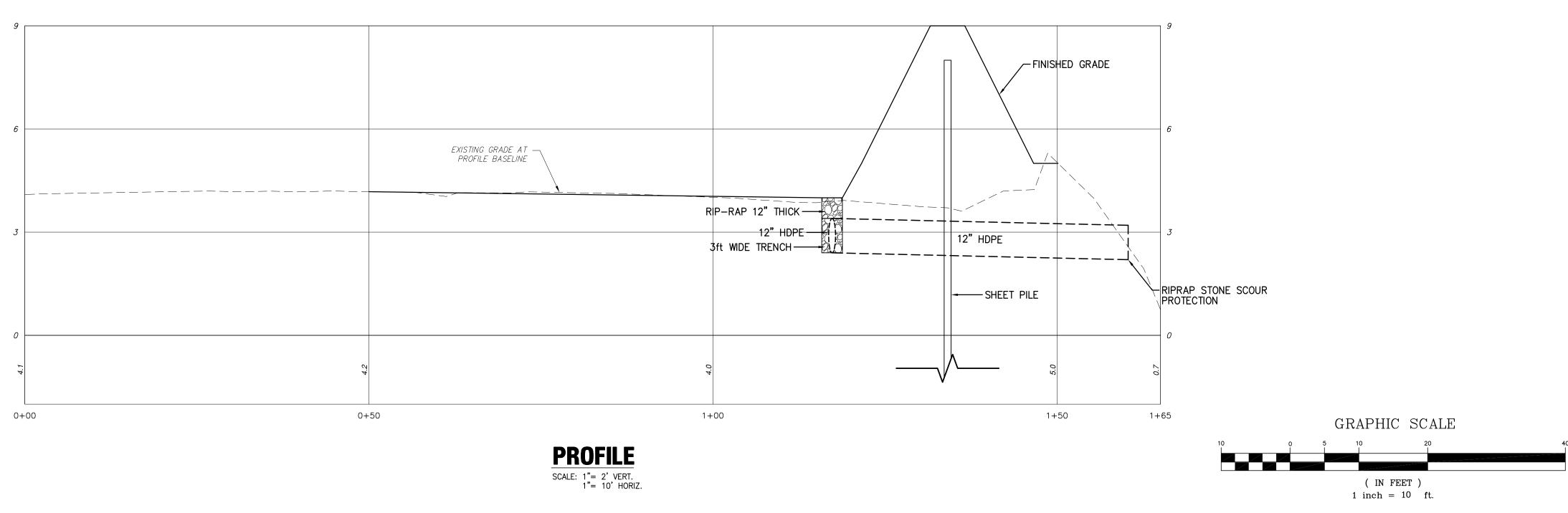
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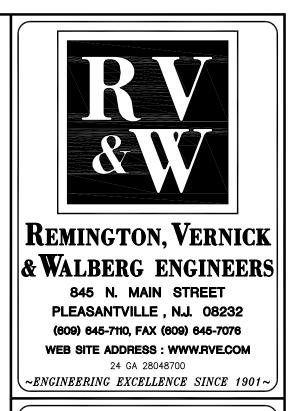
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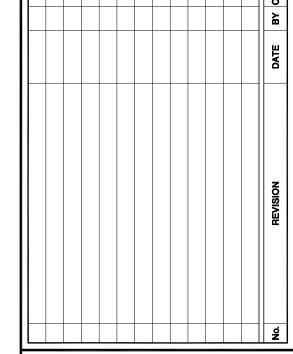
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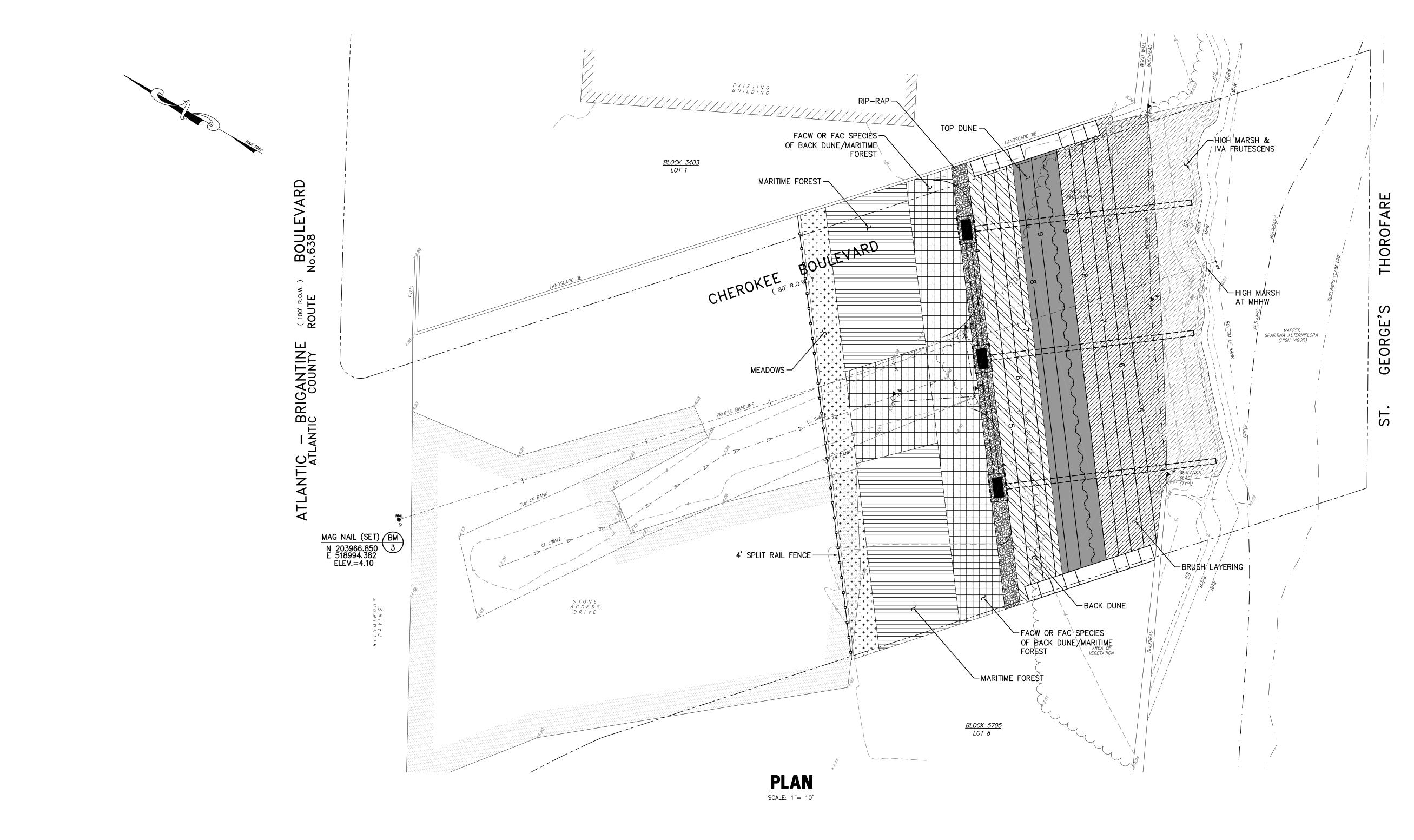
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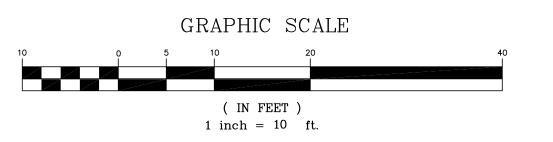
LEVARD	/ARD	NEW JERSEY
SITE PLAN — CHEROKEE BOULEVARD	ATLANTIC-BRIGANTINE BOULEVARD SHORELINE STABILIZATION	CITY OF BRIGANTINE
SITE PLAN	ATLANT	I ANTIC COUNTY

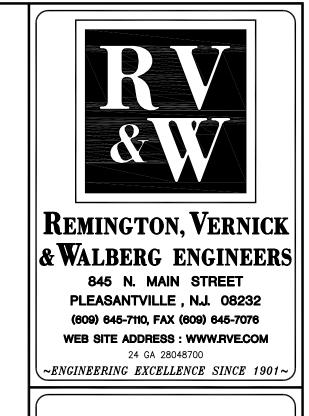


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- 4. TIDAL BENCH MARK: 853 4638, NGS PID# JU4082, NAVD 88 ELEVATION 9.26.
- 5. UPPER WETLANDS BOUNDARY AND MAPPED VEGETATION TAKEN FROM NJDEP 1970 COASTAL WETLANDS MAP EAGLE BAY, SHEET No. 203—2070.
- 6. TIDELANDS CLAIM LINE TAKEN FROM NJDEP BUREAU OF TIDELANDS MANAGEMENT PROMULGATED TIDELANDS LINE, SHEET No. 203-2070.

TIDAL	DATUM (NAVD-	-1988)
HTL	HIGH TIDE LINE	+2.14'
MHHW	MEAN HIGHER HIGH WATER	+1.72'
MHW	MEAN HIGH WATER	+1.33'
MTL	MEAN TIDAL LEVEL	-0.61'
MLW	MEAN LOW WATER	-2.55'
MLLW	MEAN LOWER LOW WATER	-2.72'

PLANTING SCHEDULE							
COMMUNITY	SCIENTIFIC NAME	COMMON NAME					
UIOU MARCU	JUNCUS GERARDII	BLACK NEEDLE RUSH					
HIGH MARSH	SPARTINA PATENS	SALT HAY					
FORE DUNE/HIGH MARSH	IVA FRUTESCENS	MARSH ELDER					
UNICIMABITIME CORECT/DDUCU LAVED	BACCHARIS HALIMIFOLIA	GROUNDSELTREE					
DUNE/MARITIME FOREST/BRUSH LAYER	MYRICA PENSYLVANICA	NORTHERN BAYBERRY					
NINE MARITIME FORFOT	PANICUM VIRGATUM	SWITCHGRASS					
DUNE/MARITIME FOREST	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM					
ORE/TOP DUNE	AMMOPHILA BREVILIGULATA	AMERICAN BEACHGRASS					
	OPUNTIA HUMIFUSA	PRICKLY PEAR					
OP/BACK DUNE	HUDSONIA TOMENTOSA	WOOLLY BEACH HEATHER					
	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY					
	PRUNUS MARITIMA	BEACH PLUM					
	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD					
	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH					
ACK DUNE	ARONIA MELANOCARPA	BLACK CHOKECHERRY					
	AMELANCHIER CANADENSIS	SERVICEBERRY					
	GAYLUSSACIA BACCATA	BLACK HUCKLEBERRY					
	RHUS COPALLINUM	WINGED SUMAC					
	QUERCUS VELUTINA	BLACK OAK					
	QUERCUS PHELLOS	WILLOW OAK					
	ILEX OPACA	AMERICAN HOLLY					
AARITIME CORECT	NYSSA SYLVATICA	BLACKGUM					
MARITIME FOREST	QUERCUS RUBRA OR Q. FALCATA	RED OR SPANISH OAK					
	JUNIPERUS VIRGINIANA	RED CEDAR					
	PINUS RIGIDA	PITCH PINE					
	QUERCUS STELLATA	POSTOAK					
	EUPATORIUM HYSSOPIFOLIUM	HYSSOP LEAVED BONESET					
	ROSA VIRGINIANA	VIRGINIA ROSE					
	ANDROPOGON VIRGINICUS	BROOMSEDGE					
TAROW.	ELYMUS VIRGINICUS	VIRGINIA WILDRYE					
MEADOW	ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS					
	RUDBECKIA HIRTA	BLACKEYED SUSAN					
	OENOTHERA FRUTICOSA	EVENING PRIMROSE					
	COREOPSIS LANCEOLATA	LANCELEAF TICKSEED					





EDWARD J. WALBERG

NJ PROFESSIONAL ENGINEER LIC. No. 37259

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

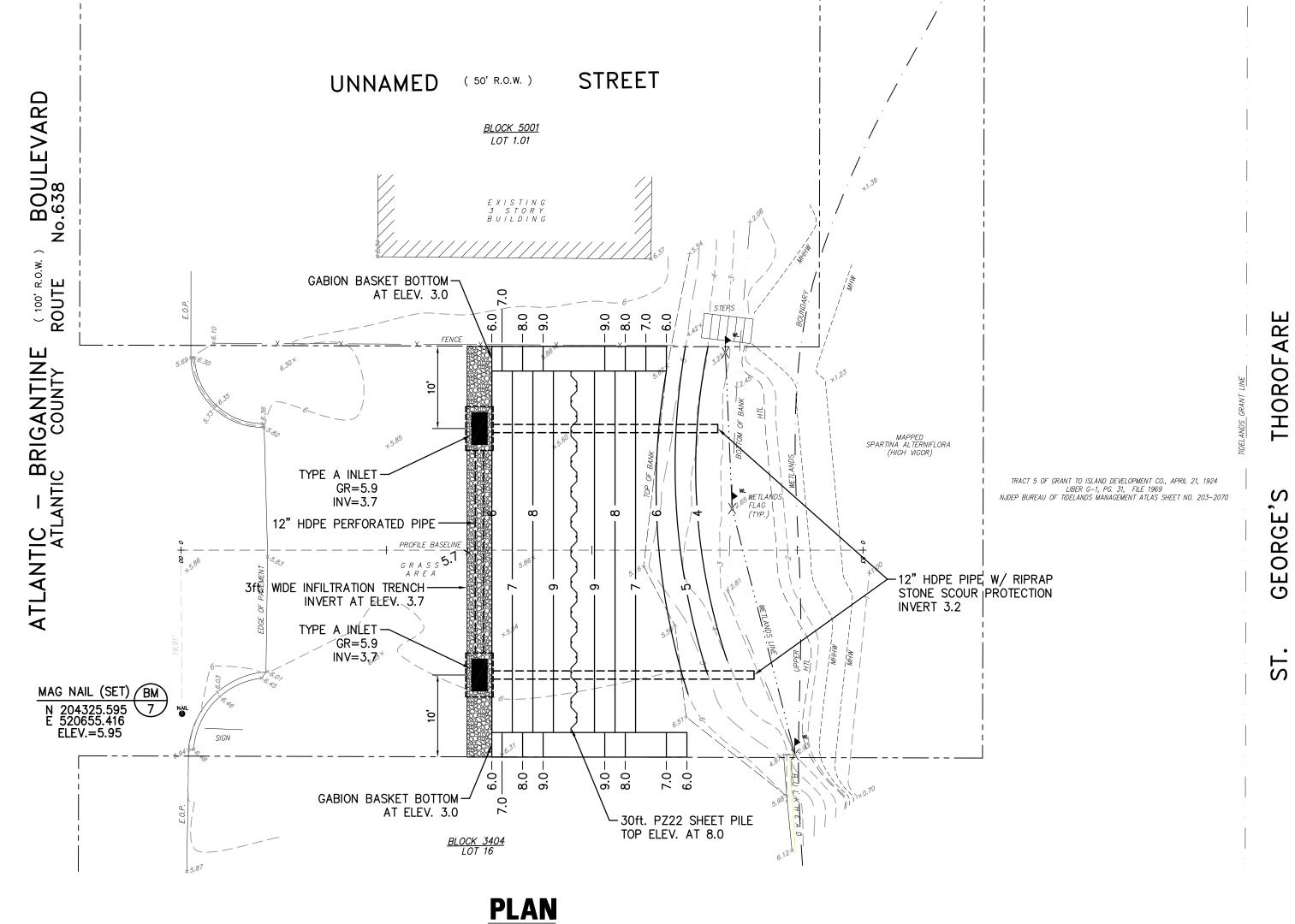
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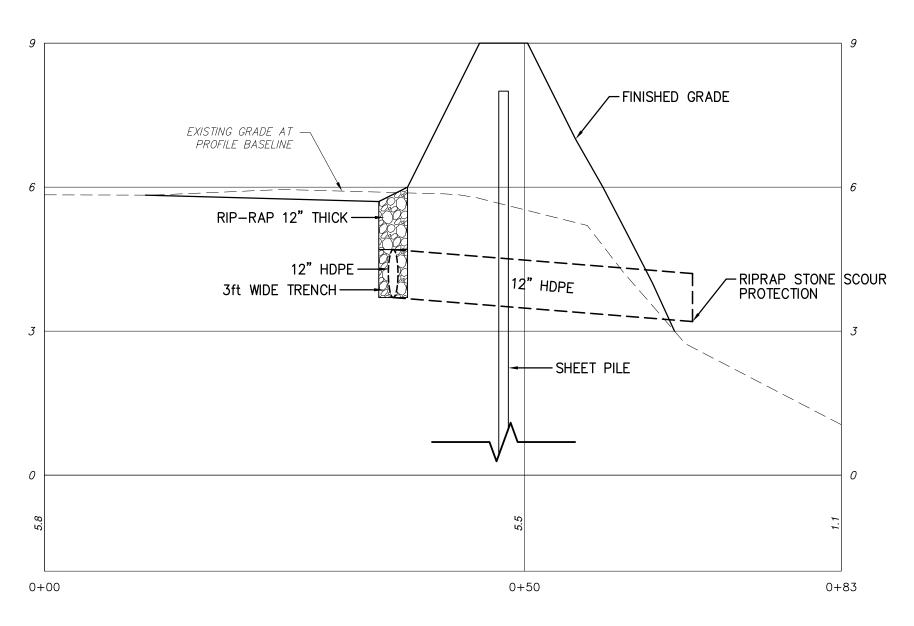
PLANIING PLAN — CHEKOKEE BOULEVARD
ATLANTIC-BRIGANTINE BOULEVARD SHORELINE STABILIZATION
ATLANTIC COUNTY CITY OF BRIGANTINE NEW JERSEY





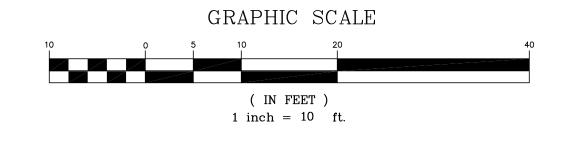
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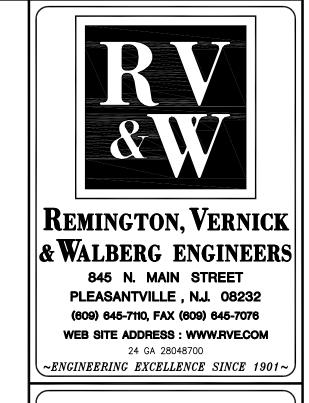
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PROFILE

SCALE: 1"= 2' VERT.
1"= 10' HORIZ.





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No. REVISION DATE BY CH

SITE PLAN — UNNAMED STREET

ATLANTIC—BRIGANTINE BOULEVARD
SHORELINE STABILIZATION

STANTIC COUNTY CITY OF BRIGANTINE NEW JERSEY



ARE PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID. ALL DOCUMENTS PREPARED BY REMINGTON, VERNICK & WALBERG ENGINEERS ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR THOROF, REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT.

GRAPHIC SCALE

(IN FEET) 1 inch = 10 ft.

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| REMINGTON, VERNICK

& WALBERG ENGINEERS

845 N. MAIN STREET

PLEASANTVILLE, N.J. 08232

(609) 645-7110, FAX (609) 645-7076

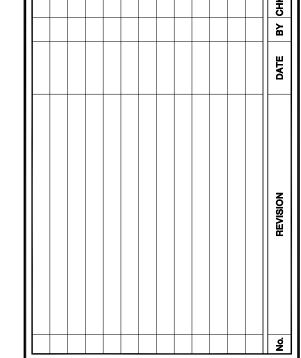
WEB SITE ADDRESS: WWW.RVE.COM

24 GA 28048700

~ENGINEERING EXCELLENCE SINCE 1901~

||EDWARD J. WALBERG

NJ PROFESSIONAL ENGINEER LIC. No. 37259



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ANTIC-BRIGANTINE BOULEVARD SHORELINE STABILIZATION

COREOPSIS LANCEOLATA LANCELEAF TICKSEED

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STREET UNNAMED BOULEVARD o.638 <u>BLOCK 5001</u> LOT 1.01 EXISTING 3 STORY BUILDING FACW OR FAC SPECIES -OF BACK DUNE/MARITIME TOP DUNE MARITIME FOREST -- BRIGANTINE ANTIC COUNTY AHIGH MARSH & IVA FRUTESCENS MAPPED SPARTINA ALTERNIFLORA (HIGH VIGOR) MEADOWS -TRACT 5 OF GRANT TO ISLAND DEVELOPMENT CO., APRIL 21, 1924 LIBER G-1, PG. 31, FILE 1969 NJDEP BUREAU OF TIDELANDS MANAGEMENT ATLAS SHEET NO. 203–2070 RIP-RAP-GRASS AREA 4' SPLIT RAIL FENCE -MEADOWS -AT MHHW MAG NAIL (SET) BM N 204325.595 7 E 520655.416 ELEV.=5.95 -BRUSH LATERING -BACK DUNE MARITIME FOREST -FACW OR FAC SPECIES -OF BACK DUNE/MARITIME FOREST <u>BLOCK 3404</u> LOT 16

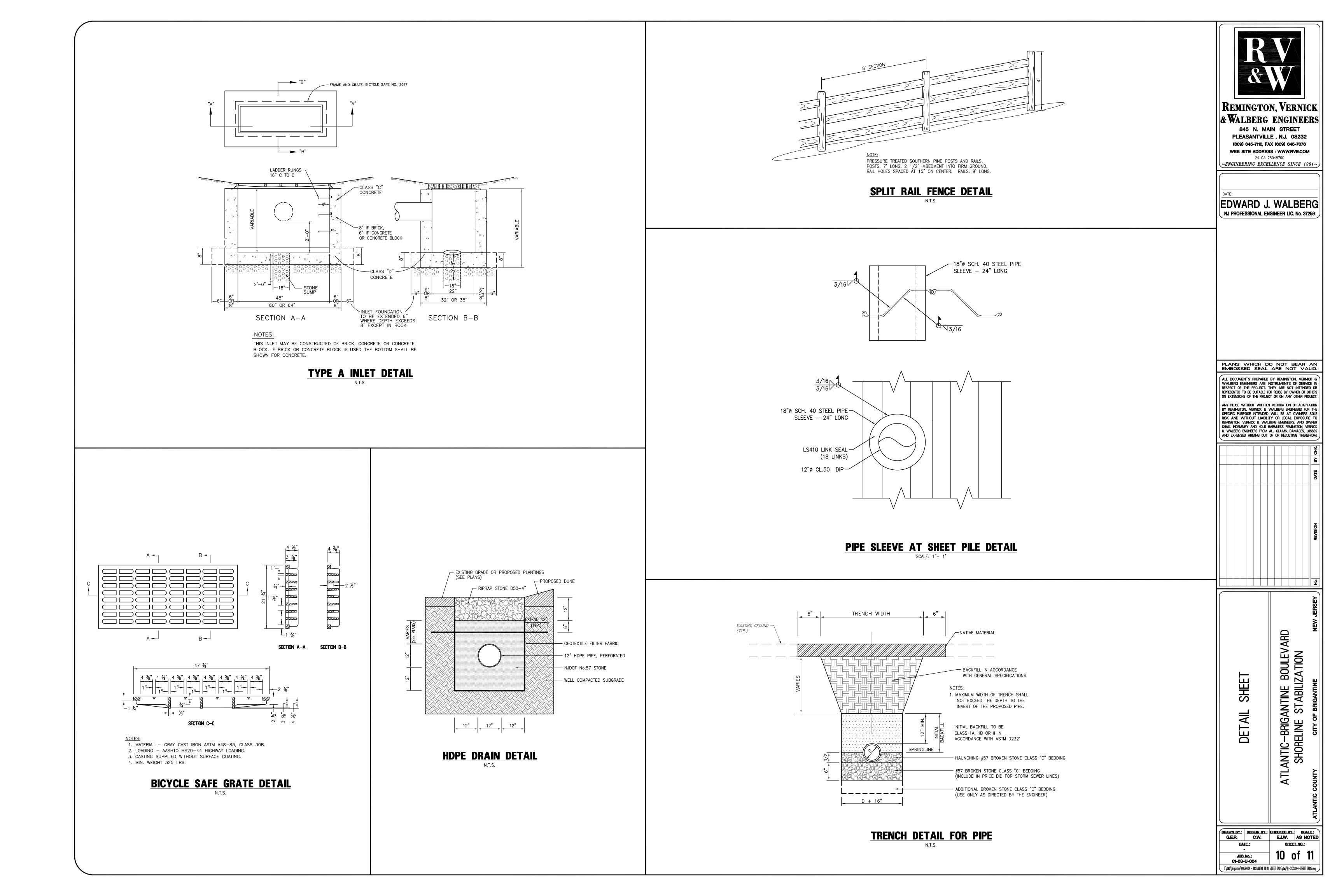
PLAN

SCALE: 1"= 10'

SURVEY NOTES:

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SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. 2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NJ
- STANDARDS (I.E. PEG AND TWIN, MULCH NETTING, OR LIQUID MULCH BINDER). . IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NJ STANDARDS.
- 4. <u>STABILIZATION SPECIFICATIONS:</u>
- A. TEMPORARY SEEDING AND MULCHING:
- -LIME 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER 14 LBS/1.000 SF: 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4" -SEED - ANNUAL RYEGRASS 40 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1 -MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1.000 SF. TO BE APPLIED ACCORDING TO THE NJ STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
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- -SEED PERENNIAL RYEGRASS 40 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
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- 5. TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH SECTION 4.21 OF THE NJ STANDARDS.
- 6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM-WATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES. 7. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR
- 8. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE.
- 9. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2 1/2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' x 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
- 10. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT. 11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR
- TO INDIVIDUAL LOT CONSTRUCTION. 12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 13. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A CRUSHED STONE OR FABRIC FILTER (FILTER DETAILS APPEAR ON THE PLAN).
- 14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

OF THE NEW BRUNSWICK-TRENTON LINE.

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS

2. SEEDBED PREPARATION

A. APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE_	LBS./100 SQF
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90

- LOAMY SAND, SAND PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH
- B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED
- C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.
- D. SOILS HIGH ON SULFIDES OR HAVING A pH OF 4 OR LESS SHOULD BE MULCHED ONLY.
- 3. SEEDING A. SEE TEMPORARY SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
- B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED
- C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO—SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING

4. MULCHING MULCHING IS REQUIRED ON ALL SEEDING.

- A. <u>MULCH MATERIALS</u> SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 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 APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL
- B. <u>SPREAD UNIFORMLY</u> 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
- 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.
- . <u>PEG AND TWINE</u>— 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 CRISSCROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH
- 2. <u>MULCH NETTING</u>— STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
- S. <u>CRIMPER(MULCH ANCHORING TOOL</u>)— A TRACTOR—DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE 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.
- D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

TEMPORARY SEEDING MIXTURE

- THIS SEEDING MIXTURE IS COMPOSED OF A SINGLE SPECIES WHICH GERMINATES QUICKLY IN ORDER TO REDUCE SOIL EROSION UNTIL A PERMANENT VEGETATIVE COVER CAN BE COVER ESTABLISHED. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE COMMON NAME BOTANICAL NAME LOLIUM PERENNE "LINN"
- THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (5) POUNDS/1000 SQUARE FEET OR 225 POUNDS/ACRE. RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15 SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND
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2. SEEDBED PREPARATION

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SOIL_TEXTURE CLAY, CLAY LOAM, AND HIGH

- ORGANIC SOIL SANDY LOAM, LOAM, SILT LOAM LOAMY SAND, SAND
- PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH THE NEW BRUNSWICK-TRENTON LINE.
- B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE SENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED S PREPARED. ALL BUT CLAY OR SILTY SOILS AND COURSE SANDS SHOULD BE ROLLED O FIRM THE SEEDBED WHEREVER FEASIBLE.
- C. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
- D. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
- SEEDING A. SEE PERMANENT SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
- B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDING, SHALL BE INCORPORATED INTO THE SOIL. TO A DEPTH OF 1/4 TO 1/2 INCH. BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL. C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING

- MULCHING IS REQUIRED ON ALL SEEDING.
- A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 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 APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
- B. <u>SPREAD UNIFORML</u>Y 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 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. <u>PEG AND TWINE</u>— 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 SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH
- TWO OR MORE ROUND TURNS. 2. <u>MULCH NETTING</u>— STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING 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 CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE 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.
- D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

IRRIGATION

A. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

6. TOP DRESSING *

- A. SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
- B. FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1
- C. MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT

PERMANENT SEEDING MIXTURE (DRY)

THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE WITH
LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION
MIX-DRY FORMULA AS MANUFACTURED BY LOFTS, INC., BOUND BROOK, N.J. 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.
A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

A MIXIUR	E OF EQUAL QUALITY MAY BE SUBSTITUTED II	F APPROVED BY OUR OFFICE.
_%	COMMON NAME	BOTANICAL NAME
40 20 15 10 10 5	CLEMFINE TALL FESCUE WEEPING LOVEGRASS RELIANT HARD FESCUE JAMESTOWN CHEWINGS FESCUE PALMER PERENNIAL RYE WHITE CLOVER BLACKWELL SWITCHGRASS	FESTUCA ARUNDINACEA "CLEMFINE" ERAGRASTIS CURVULA FESTUCA LONGIFOLIA "RELIANT" FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN" LOLIUM PERENNE "PALMER" TRIFOLIUM REPENS PANICUM VIRGATUM "BLACKWELL"

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000

RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 1 SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

Permanent Seeding Mixture (Moist)

THIS SEEDING MIXTURE IS COMPOSED OF MOISTURE—TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX—MOIST FORMULA AS MANUFACTURED BY LOFTS, INC., BOUND BROOK, N.J. 08805, (800)526—3890 A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

<u>%</u>	COMMON NAME	BOTANICAL NAME
55	CLEMFINE TALL FESCUE	FESTUCA ARUNDINACEA "CLEMFINE
15	NASSAU KENTUCKY BLUEGRASS	POA PRATENSIS "NASSAU"
10	PALMER PERENNIAL RYE	LOLIUM PERENNE "PALMER"
10	LASER POA TRIVIALIS	POA TRIVIALIS "LASER"
5	STREAKER REDTOP	AGROSTIS ALBA "STREAKER"
Ē	DEED CANADY CDACC	DULADIS ADLINDINIACEA

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 220 POUNDS/ACRE. RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

PINELANDS SEEDING MIXTURE (DRY)

THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE IN THE ACIDIC SOIL CONDITIONS COMMONLY FOUND IN THE PINELANDS. A MIXTURE OF EQUAL OUTSITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE

QUALITY MAY	BE SUBSTITUTED IF APPROVED BY OU	R OFFICE.
_ %_	COMMON NAME	BOTANICAL NAME
60 15 15 10	ARID TALL FESCUE RELIANT HARD FESCUE TIMOTHY JAMESTOWN CHEWINGS FESCUE	FESTUCA ARUNDINACEA "ARID" FESTUCA LONGIFOLIA "RELIANT" PHLEUM PRATENSE FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN
THE MINIMUM	APPLICATION RATE FOR THIS SEEDING	MIXTURE SHALL BE FIVE (5) POUNDS/1000

SQUARE FEET OR 220 POUNDS/ACRE. RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE

PINELANDS SEEDING MIXTURE (MOIST)

THIS SEEDING MIXTURE IS COMPOSED OF SPECIES WITH A HIGH DEGREE OF MOISTURE TOLERANCE WHICH CAN THRIVE IN THE ACIDIC SOIL CONDITIONS COMMONLY FOUND IN THE PINELANDS. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
55 25 15 5	REBEL 2 TALL FESCUE STREAKER REDTOP RED FESCUE SWITCHGRASS	FESTUCA ARUNDINACEA "REBEL 2' AGROSTIS ALBA "STREAKER" FESTUCA RUBRA PANICUM VIRGATUM "BLACKWELL"

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 220 POUNDS/ACRE. RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15.
SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE

TOP SOILING

TOPSOIL SHOULD BE USED WHERE SOILS ARE: SANDS, GRAVELY SOILS, CLAYS, SILTY CLAYS, VERY SHALLOW, OR WHERE THEY ARE EXTREMELY ACID (LESS THAN pH4.0) OR SALTY (CONDACTIVITY GREATER THAN 1.0 MILLIMHOS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON

SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED. MATERIALS

- A. TOPSOIL SHOULD 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.
- 2. STRIPPING AND STOCKPILING
- A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING. B. STRIPPING SHOULD 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 6.5. IN LIEU OF SOIL TESTS, SEE LIME RATE GUIDE IN SEEDBED PREPARATION FOR PERMANENT VEGETATIVE COVER. D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR
- E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
- F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH TEMPORARY SEEDING STANDARDS

PREVIOUSLY DESCRIBED HEREIN. 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 INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
- C. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, 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 WATERWAYS.
- 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 SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A pH OF 5.0 OR MORE.

1. THE PURPOSE OF DUST CONTROL MEASURES IS TO PREVENT THE BLOWING AND MOVEMENT OF

- DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-SITE AND OFF-SITE DAMAGE & HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY. A. <u>MULCHES</u> - REVIEW MULCHING NOTES ABOVE.
- B. <u>VEGETATIVE COVER</u> REVIEW NOTES ON TEMPORARY COVER.
- C. <u>SPRAY-ON ADHESIVES</u>
- D. <u>MATERIAL</u> WATER DILUTION TYPE OF NOZZLE APPLY GALLON/ACRE 7:1 COARSE SPRAY 1200 ANIONIC ASPHALT EMULSION LATEX EMULSION 12.5:1 FINE SPRAY 235 FINE SPRAY RESIN IN WATER 4:1 300
- APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS POLYACRYLAMIDE (PAM) - SPRAY ON AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED POLYACRYLAMIDE (PAM) - DRY SPREAD COLLOIDS. SEE SEDIMENT BASIN STANDARD, PAGE 26-1. ACIDULATED SOY BEAN SOAP STICK NONE COARSE SPRAY
- E. 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, AND SPRING—TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY
- F. <u>SPRINKLING</u> SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
- G. <u>BARRIERS</u> 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.
- H. <u>CALCIUM CHLORIDE</u> SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.
- J. STONE COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

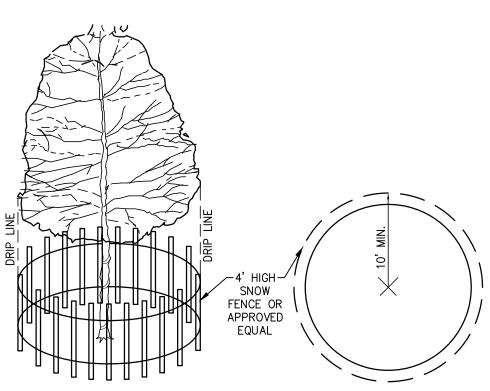
LEGEND

	51. 15
HAYBALES (TYPICAL)	THE THE
INLET PROTECTION (TYPICAL)	
SILT FENCE (TYPICAL)	x
LIMIT OF DISTURBANCE (TYPICAL)	

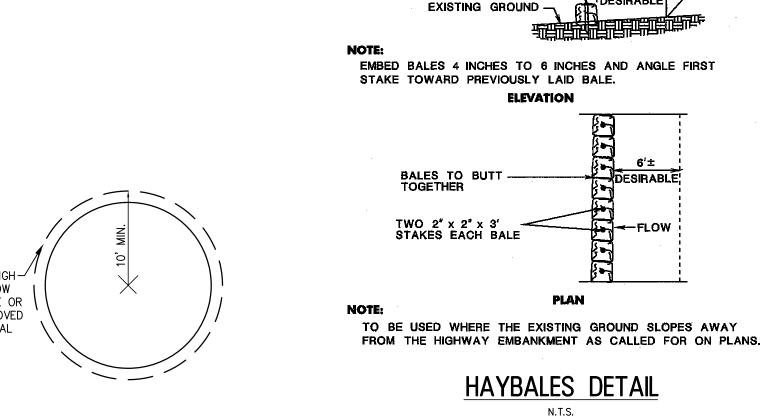
1. TEMPORARY STABILIZATION - ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 30 DAYS SHOULD RECEIVE TEMPORARY STABILIZATION. THE TEMPORARY SEEDING MIXTURES SHALL BE ANNUAL RYE GRASS AT A RATE OF 4 POUND PER 1000 SQ. FT. AND LIMED AT A RATE OF 45 LBS. PER 1000 SQ. FT. 2. PERMANENT STABILIZATION - ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY

VEGETATED SHOULD BE SEEDED WITHIN 10 DAYS OF FINAL GRADING, ACCORDING

TO THE PERMANENT SEEDING SPECIFICATIONS.



TREE PROTECTION DURING CONSTRUCTION



EXISTING GROUND -

EXISTING

GROUND

GEOTEXTILE FABRIC

PROVIDE TRANSITION BETWEEN THE STABILIZED CONSTRUCTION ENTRANCE AND THE PUBLIC

PROFILE AND PLAN VIEW

STABILIZED CONSTRUCTION DRIVEWAY

00'OR GREATER
AS REQUIRED

25' RADIUS

OR GREATER

25' RADIUS ---

OR GREATER

AS REQUIRED

AS REQUIRED

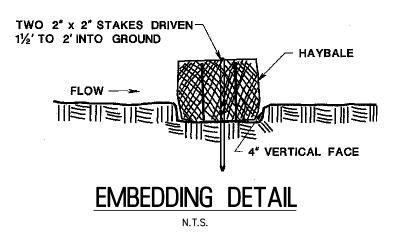
ANCHOR EACH BALE WITH TWO -

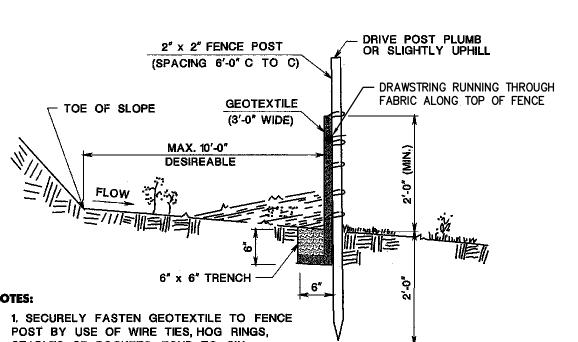
DESIRABLÉ

2" x 2" x 3' STAKES DRIVEN

11/2' TO 2' INTO THE GROUND

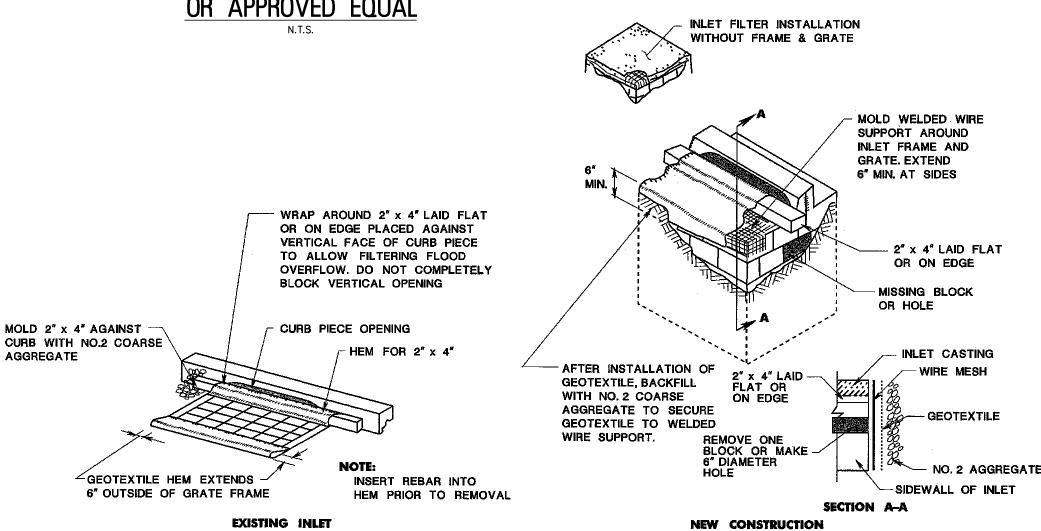






STAPLES OR POCKETS, FOUR TO SIX FASTENERS PER POST. 2. BURY BOTTOM 1'-0" OF GEOTEXTILE AND TAMP IN PLACE. 3. SECURELY FASTEN ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE TO A POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.

4. SET SILT FENCE WITHIN PROJECT LIMITS. 10'-0" IS DESIREABLE. SILT FENCE DETAIL OR APPROVED EQUAL



INLET FILTERS DETAIL

THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY



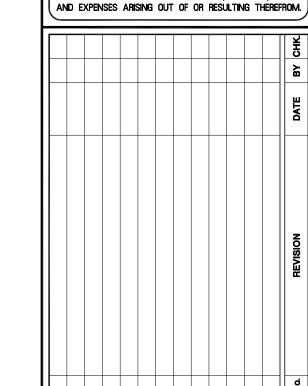
EDWARD J. WALBERG NJ PROFESSIONAL ENGINEER LIC. No. 37259

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID. ALL DOCUMENTS PREPARED BY REMINGTON, VERNICK 8

WALBERG ENGINEERS ARE INSTRUMENTS OF SERVICE IN

RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR

REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON, VERNICK & WALBERG ENGINEERS FOR THI SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLI RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON VERNICK & WALRERG ENGINEERS: AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON, VERNICK



BOULEV, SEDIN AILS -BRIGANTINE :LINE STABILI EROSION CONTROL

DRAWN BY: DESIGN BY: CHECKED BY: SCALE E.D.J. E.J.W. NOTED JOB No.: 01-03-U-004 \DWG\BRIGANTINE\0103U004\DWG\C-0103U004-01.DWG