

**MINUTES OF THE
MENDHAM BOROUGH ECOSST
REGULAR MEETING
Monday, November 3, 2025
Garabrant Center, 4 Wilson Street, Mendham, NJ**

CALL TO ORDER & FLAG SALUTE

The Regular meeting of the Mendham Borough ECOSST was called to order at 7:30 p.m. and the open public meeting statement was read into the record.

ROLL CALL

Mr. Arena	Present	Mr. Foerster	Present
Ms. Mundy	Absent	Mr. D'Agostino	Present
Mr. Metzler	Absent	Mr. Morris	Absent
Ms. Herrick	Present	Mr. D'Urso	Present
Mr. Tracy	Present		

MINUTES

Motion by Mr. D'Urso , seconded by Mr. Tracy and unanimously carried by voice vote to adopt the Minutes of October 6, 2025, meeting as submitted.

ROLL CALL

In Favor: Mr. Arena, Ms. Herrick, Mr. Tracy, Mr. D'Agostino, and Mr. D'Urso

Opposed:

Abstain: Mr. Foerster

Motion carried

PUBLIC COMMENTS

Chairman Arena opened the meeting to the public for questions and comments on items not included on the agenda.

There being none, public comment was closed.

DISCUSSION ITEMS

- a. Work Groups Reports
 - i. Open Space / Farmland Preserve
 - i) No Updates
 - ii) Mr. Arena noted that there will be a question on the ballot regarding Open Space.
 - ii. Environmental
 - i) No Updates
 - iii. Shade Tree
 - i) Mr. Foerster stated that mapping is being done for the proposed tree plantings for the next few years
 - ii) Mr. Foerster noted that there are 20 trees to be planted this Fall

PROJECT GROUP REPORT

- a. **Scott Farm**
 - i. No Updates

- b. **Recycling/Clean Communities Outreach Program/Publicity/Events**
 - i. No Updates
- c. **Service Projects (Scout Liaison)**
 - i. Mr. Arena noted that 2 slabs for benches have been started at India Brook
- d. **Trails**
 - i. Ms. Herrick explained that she has been cataloging trails.
 - ii. Ms. Herrick suggested some plantings at the Franklin Trail.
- e. **Borough Park Arboretum**
 - i. Mr. Tracy summarized the plans for the trail at the arboretum. (See plans attached)
- f. **Joint Land Use Board**
 - i. Mr. D'Urso noted that there were 2 applications on the agenda for the JLUB
 - i. Cherry Ln subdivision
 - ii. Prospect St - addition
- g. **Council Updates**
 - i. No updates
- h. **India Brook**
 - i. Mr. Arena explained that:
 - i. Invasives were cut
 - ii. Planted grass
 - iii. Built cages for the trees to be planted
 - iv. DPW will be digging holes for the trees that will be planted on November 15th in coordination with Trout Unlimited. Volunteers needed

PUBLIC COMMENTS

Chairman Arena reopened the meeting to the public for questions and comments on items not included on the agenda.

Mr. Weismann- 15 TempeWick would like accessibility to Tranquility Park reviewed, and asked if permits were needed for tree removal. Mr. Foerster stated that there was a tree permit that can be found on the Borough website. There being no further comments, public comment was closed.

ADJOURNMENT

Motion by Mr. Foerster, seconded by Ms. Herrick and unanimously carried to adjourn at 8:15 p.m.

Respectfully Submitted,
Lisa Smith
 Land Use Coordinator

MENDHAM BOROUGH PARK AND ARBORETUM TRAIL

LOTS 5, 5.01 & 16 ~ BLOCK 601

BOROUGH OF MENDHAM, MORRIS COUNTY, NJ

ONE CALL
811 Know what's below.
Call before you dig.
DIAL 811
OR
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES
IF YOU ARE GOING TO DIG, BLAST OR DRILL
THREE (3) WORKING DAYS NOTICE

REMEMBER
IT'S THE LAW!

Dig Safely.

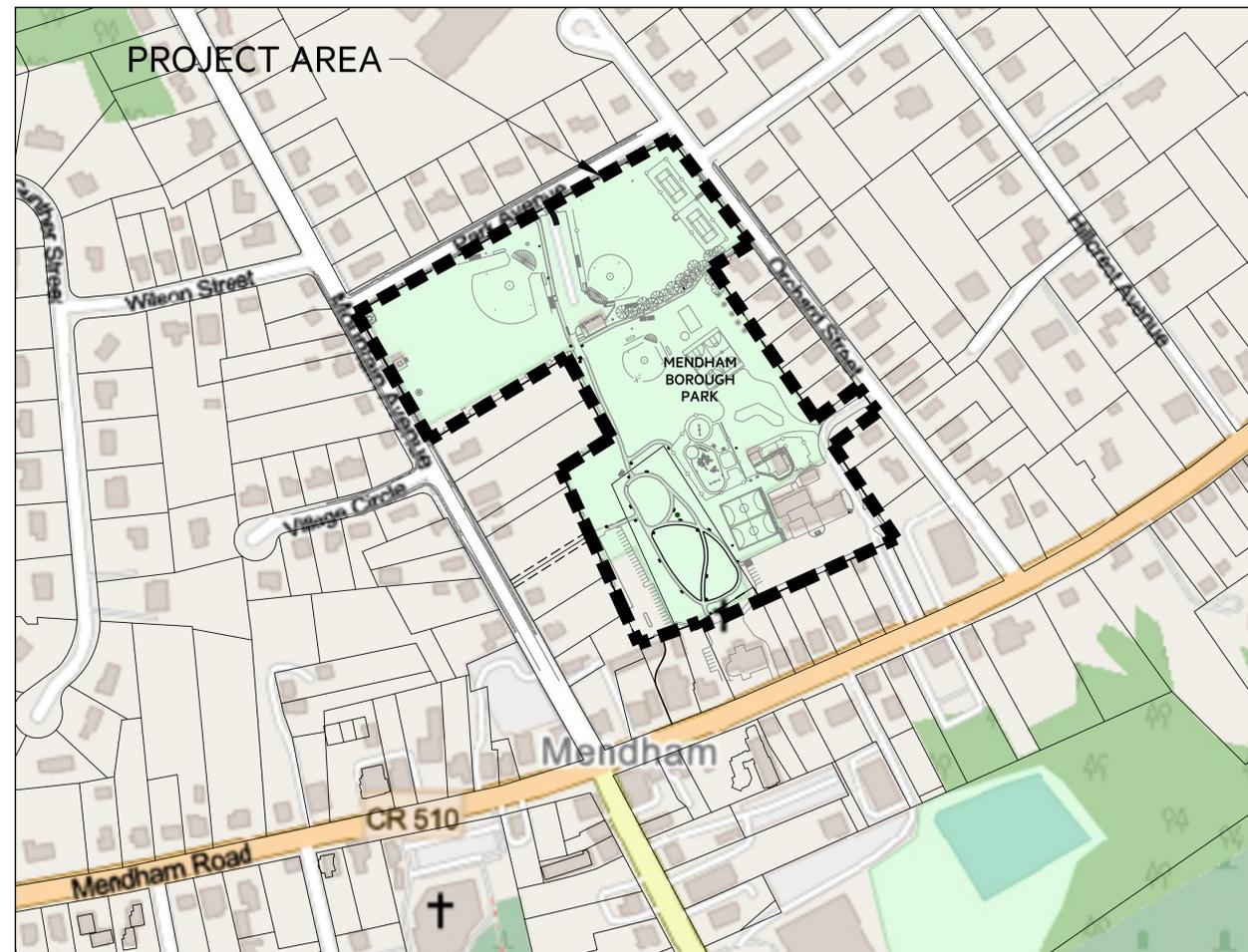
ONE CALL
811 NEW JERSEY
UNA LLAMADA
LLAME ANTES DE EXCAVAR
811
OR
1-800-272-1000

PARA LOCALIZAR LAS UTILIDADES SUBTERRANEAS SI
USTED VA A EXCAVAR, ESTALLAR O TALADRAR DE AVISO
TRES (3) DIAS DE TRABAJO EN ANTICIPACION

RECUERDE
ES LA LEY!
EXCAVE CON SEGURIDAD

Dig Safely.

ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
1	MOBILIZATION, SITE PREPARATION & CLEARING SITE	LS	1
2	TRAFFIC CONTROL	LS	1
3	TRAFFIC DIRECTOR, FLAGGER	HRS	80
4	FUEL PRICE ADJUSTMENT	DOLLARS	500
5	SOIL EROSION & SEDIMENT CONTROL MEASURES	LS	1
6	EXCAVATION & EARTHWORK	LS	1
7	POROUS ASPHALT WALKING TRAIL, 8 FT.WIDE	SY	2800
8	2 1/2" TO 3" CLEAN STONE (IF AND WHERE DIRECTED)	CY	150
9	BELGIAN BLOCK CURB, DEPRESSED	LF	21
10	TRAIL MARKER	UNIT	15
11	PARK BENCH W/ CONCRETE FOUNDATION	UNIT	8
12	TREE PLANTING, LARGE DECIDUOUS, 3-3 1/2" CALIPER, B&B	UNIT	10
13	TREE PLANTING, UNDERSTORY, 3-3 1/2" CALIPER, B&B	UNIT	8
14	TREE PLANTING, EVERGREEN, 9-10' HIGH, B&B	UNIT	10
15	TOPSOIL SPREADING, 5" THICK	SY	4850
16	FERTILIZING AND SEEDING, TYPE A-3	SY	4850
17	STRAW MULCHING	SY	4850
18	TOPSOIL STABILIZATION, TYPE 1 MAT (IF AND WHERE DIRECTED)	SY	140
19	REPLACE INLET GRATE, TYPE E, ADA	UNIT	1
20	SITE RESTORATION & FINAL CLEANUP	LS	1



PROJECT LOCATION MAP (TOTAL TRAIL SEGMENTS = 2,602 LF)

SCALE: 1" = 200'

SOURCE: ESRI STREET VIEW

NOTES RELATING TO BID ITEMS:

- ESTIMATED QUANTITIES MAY INCLUDE SHEET TOTALS AND IF AND WHERE DIRECTED QUANTITIES.
- TRAFFIC DIRECTOR, FLAGGERS WILL BE MEASURED FOR PAYMENT, PER HOUR, ONLY UP TO THE QUANTITY LISTED IN THE PROPOSAL. THE COST OF TRAFFIC DIRECTOR, FLAGGERS BEYOND THE QUANTITY LISTED IN THE PROPOSAL SHALL BE BORNE BY THE CONTRACTOR. THE PROPOSAL QUANTITY SHALL BE A CONSIDERED A MAXIMUM TO BE PAID BY THE BOROUGH. THIS BID ITEM IS A PARTICIPATING ITEM UP TO THE CURRENT PREVAILING WAGE RATE.
- THE COST OF ANY POLICE TRAFFIC DIRECTORS, AS INDICATED IN THE TRAFFIC CONTROL PLANS OR AS REQUIRED BY THE BOROUGH, SHALL BE BORNE BY THE BOROUGH.
- THE SUBMITTAL AND COST OF ANY ADDITIONAL CONSTRUCTION PERMITS (i.e. DISPOSAL PERMIT) SHALL BE BORNE BY THE CONTRACTOR AND INCLUDED IN THE PAY ITEM 1.

GENERAL NOTES:

- THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019 EDITION WITH AMENDMENTS THERETO TO GOVERN.
- ALL CONSTRUCTION DETAILS SHALL BE CONSISTENT WITH THE 2016 NJDOT STANDARD CONSTRUCTION DETAILS FOR ROADWAY, TRAFFIC CONTROL AND BRIDGE WORK.
- ALL TRAFFIC CONTROL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO STANDARDS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- UTILITY INFORMATION SHOWN ON THESE PLANS IS APPROXIMATE AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL UNDERGROUND UTILITIES 1 (800) 272-1000 FOR MARKOUT PRIOR TO EXCAVATION. TEST PITS SHALL BE EXCAVATED BY THE CONTRACTOR AT ALL CROSSINGS PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING LOCATIONS, ELEVATIONS, MATERIALS, AND SIZES. TEST PIT DATA SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- TREES AS INDICATED ON THE PLANS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR. ANY BRANCH REMOVAL (IF AND WHERE NECESSARY) SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR MOBILIZATION, SITE PREPARATION AND CLEARING SITE. NO SEPARATE PAYMENT SHALL BE MADE FOR BRANCH REMOVAL.
- ALL STORMWATER INLETS AND PIPING SHALL REMAIN. DAMAGE TO EXISTING STORMWATER STRUCTURES OR PIPING SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL SEPARATE COST TO THE OWNER. ANY NEW STORMWATER CASTINGS SHALL BE PHASE II STORMWATER COMPLIANT "ECO" AND "BICYCLE SAFE" TYPES OF VARIOUS SIZES.
- COSTS TO REMOVE EXCESS MATERIAL SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS IN THE PROPOSAL WITH NO SEPARATE COST TO THE OWNER.
- ALL EXISTING WALK BRICKS, CONCRETE SIDEWALKS, BELGIAN BLOCK CURBING, PAVEMENT, HARDSCAPE, WALLS, POLES, BLEACHERS, SPORTS FEATURES, LANDSCAPING, SIGNS, ELECTRICAL FIXTURES, MEMORIAL MONUMENTS, FENCING AND MAILBOXES DISTURBED DURING CONSTRUCTION MUST BE REPLACED IN KIND AT NO ADDITIONAL SEPARATE COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE CONSTRUCTION SCHEDULE WITH THE MENDHAM DPW.
- ACCESS TO PRIVATE DRIVEWAYS AND ALONG SIDEWALKS AND STREETS SHALL BE AVAILABLE AT ALL TIMES. TEMPORARY SIDEWALK CLOSURES SHALL BE AS DIRECTED BY STANDARD NJDOT TRAFFIC CONTROL PROCEDURES.
- ALL PROPERTY CORNERS OR MONUMENTS TO BE REMOVED OR DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A LICENSED SURVEYOR AT NO ADDITIONAL SEPARATE COST TO THE OWNER.
- THIS PROJECT IS NOT ENCUMBERED BY NJDEP REGULATED AREAS.

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	OVERALL AND DEMOLITION PLAN
3	GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN - 1
4	GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN - 2
5	SOIL EROSION & SEDIMENT CONTROL DETAILS & NOTES
6	CONSTRUCTION DETAILS
7	TRAFFIC CONTROL NOTES & DETAILS

NO.	DATE	DESCRIPTION	REVISED BY	CHECKED BY

PAUL W. FERRIERO

PROFESSIONAL ENGINEER N.J. LIC. 32978

BOSWELL
EST 1924
BOSWELLENGINEERING.COM

180 MAIN STREET, P.O. BOX 571, CHESTER, NJ 07930

SOUTH HAVEN, NJ 07088
201 641 0770 CHESTER, NJ 908 879 6209 HOPWELL, NJ 609 446 0202 ALBANY, NY 518 436 6370 FPOWKEEPSIE, NY 914 682 1900
N.J. CERTIFICATE OF AUTHORIZATION No. 24GA27958000

**MENDHAM BOROUGH
PARK AND ARBORETUM TRAIL**
TITLE SHEET

LOTS 5, 5.01 & 16 - BLOCK 601

BOROUGH OF MENDHAM

MORRIS COUNTY, NEW JERSEY

SURVEYED BY:	DESIGNED BY:	DATE:	JOB NO.:
-	KEM	10/06/25	25MD103
DRAWN BY:	CHECKED BY:	SCALE:	SHEET:
KEM	PWF/CJD	AS NOTED	1 OF 7

UTILITY NOTES:

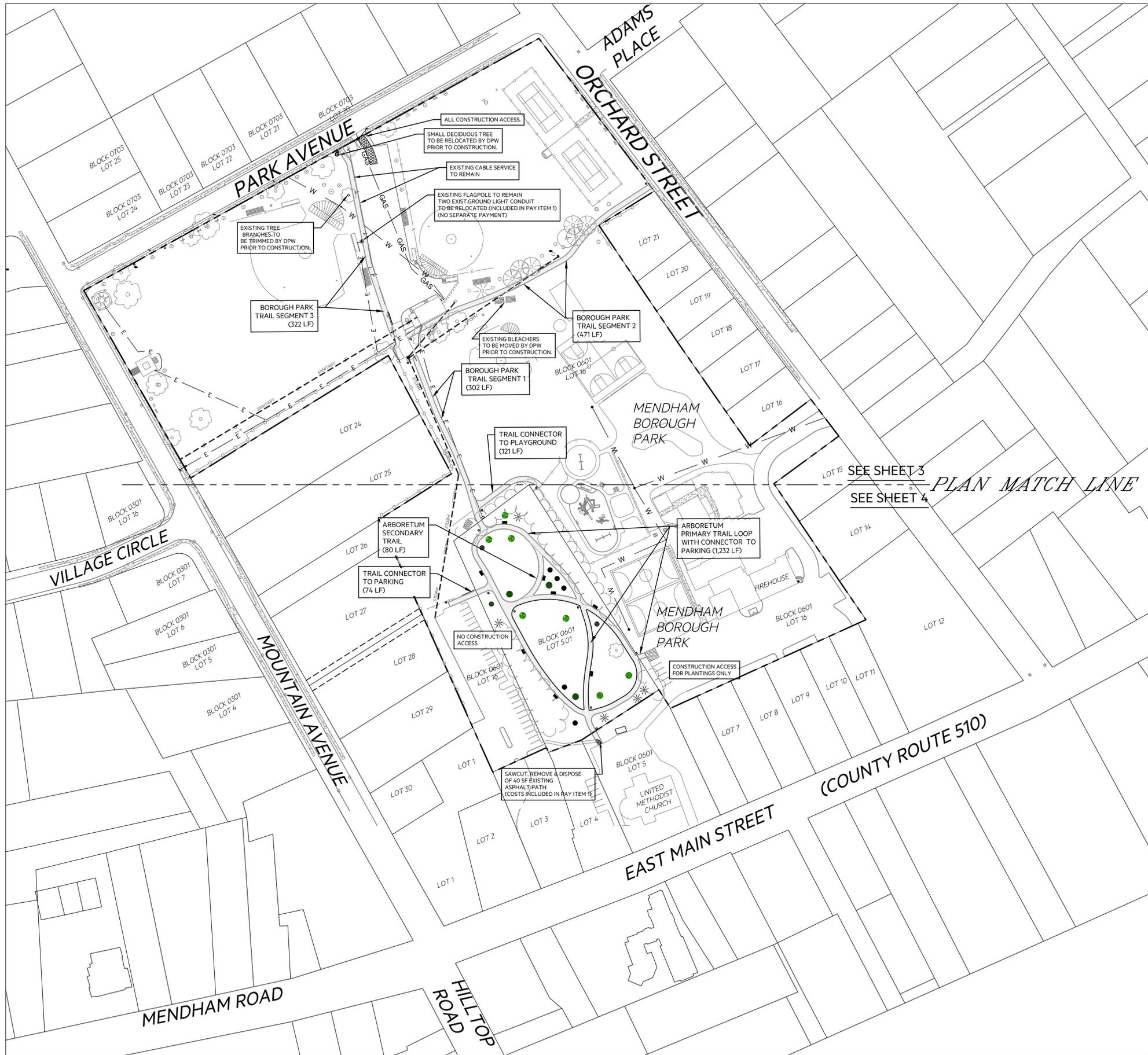
- UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION. THE CONTRACTOR SHALL CALL THE NEW JERSEY ONE-CALL PLANT LOCATIONS SERVICE AT 1-800-272-1000 FOR UTILITY MARKOUT AT LEAST FIVE (5) FULL WORKING DAYS, BUT NOT MORE THAN TEN (10) WORKING DAYS, PRIOR TO EXCAVATING.
- UTILITY LOCATIONS MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION TO AVOID DISRUPTION OF SERVICE. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE RE. CROSSINGS WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PITS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE RE AND THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED OF ANY CONFLICTS FOUND IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITY COMPANIES TO ARRANGE FOR ALL UTILITY WORK ESSENTIAL FOR THE COMPLETION OF THE PROJECT AND TO DETERMINE EACH COMPANY'S SCHEDULE FOR THE RELOCATION AND/OR INSTALLATION OF THEIR FACILITIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATING UTILITY WORK SO THAT ANY CONTRACT WORK TO BE PERFORMED BY THE CONTRACTOR DOES NOT INTERFERE WITH OR DELAY THE EFFORTS OF THE UTILITY COMPANIES.
- ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM DAMAGE AT ALL TIMES DURING CONSTRUCTION. CARE SHALL BE TAKEN SO THAT ALL EXISTING UTILITIES ARE PROTECTED AND KEPT OPERATIONAL. THE CONTRACTOR SHALL TEMPORARILY SUPPORT OR RELOCATE UTILITIES AS NECESSARY FOR CONSTRUCTION AS INDICATED IN THE PROPOSAL. ANY DAMAGE TO EXISTING UTILITIES OR SERVICES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- IF NECESSARY, TEMPORARY AND/OR PERMANENT UTILITY RELOCATIONS AND TEMPORARY UTILITY SUPPORT ACCOMMODATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY COMPANIES.

PUBLIC UTILITIES

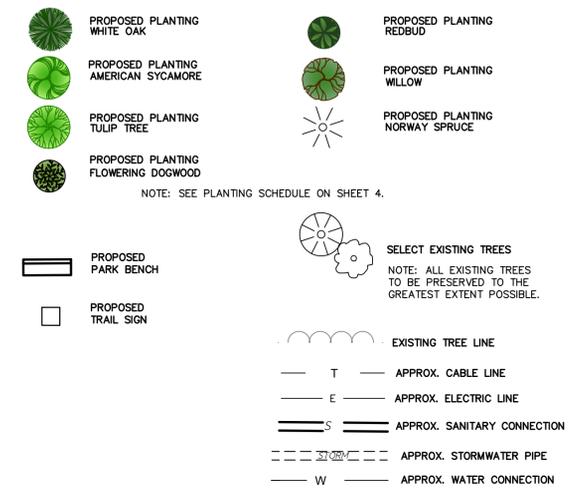
GAS: PUBLIC SERVICE ELECTRIC & GAS (GAS)
ELECTRIC: JERSEY CENTRAL POWER & LIGHT (ELECTRIC)
CABLE: COMCAST
TELEPHONE: VERIZON
WATER: MORRIS COUNTY MUNICIPAL UTILITIES AUTHORITY
STORM: PUBLIC WORKS
SANITARY: PUBLIC WORKS

FUNDING SOURCES

MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM



LEGEND



SEE FOLLOWING SHEETS FOR DETAIL OF PROPOSED CONSTRUCTION AREAS.

GENERAL SITE PLAN NOTES:

1. TOPOGRAPHIC CONTOURS OBTAINED FROM 2017-2018 USGS LIDAR: NW NEW JERSEY 6 COUNTY (NAVD 1988 VERTICAL DATUM).
2. LOT BOUNDARIES OBTAINED FROM NJ STATE GIS PARCEL DATABASE
3. AERIAL OBTAINED FROM NEAR MAP IMAGERY, JULY 2025.
4. MAP REFERENCE: SUBDIVISION THAT CREATED LOT 5.01, BLOCK 601, ENTITLED "MINOR SUBDIVISION PLAN", PREPARED BY FERRIERO ENGINEERING INC., DATED JUNE 17, 2020.
5. ONLY SELECT EXISTING TREES IN THE DISTURBANCE AREAS HAVE BEEN SHOWN. EXISTING TREES AS SHOWN TAKEN FROM AERIAL PHOTOGRAPHY AND VERIFIED BY SITE VISITS BY THIS FIRM.
6. APPROXIMATE UNDERGROUND UTILITY CONNECTIONS APPROXIMATELY SHOWN AS PER MENDHAM BOROUGH DPW SITE VISIT, 2025, AND HAVE NOT BEEN VERIFIED. SEE SHEET 1 FOR UTILITY NOTES.

PROPOSED TRAIL SEGMENTS	
DESCRIPTION	LENGTH (LF)
BOROUGH PARK SEGMENT 1	302
BOROUGH PARK SEGMENT 2	471
BOROUGH PARK SEGMENT 3	322
TRAIL CONNECTOR TO PLAYGROUND	121
TRAIL CONNECTOR TO PARKING	74
ARBORETUM PRIMARY TRAIL LOOP WITH CONNECTOR TO PARKING	1232
ARBORETUM SECONDARY TRAIL	80
TOTAL TRAIL :	2602

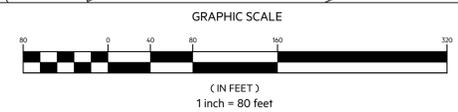
NO.	DATE	DESCRIPTION	REVISED BY	CHECKED BY

PAUL W. FERRIERO
 PROFESSIONAL ENGINEER N.J. LIC. 32978

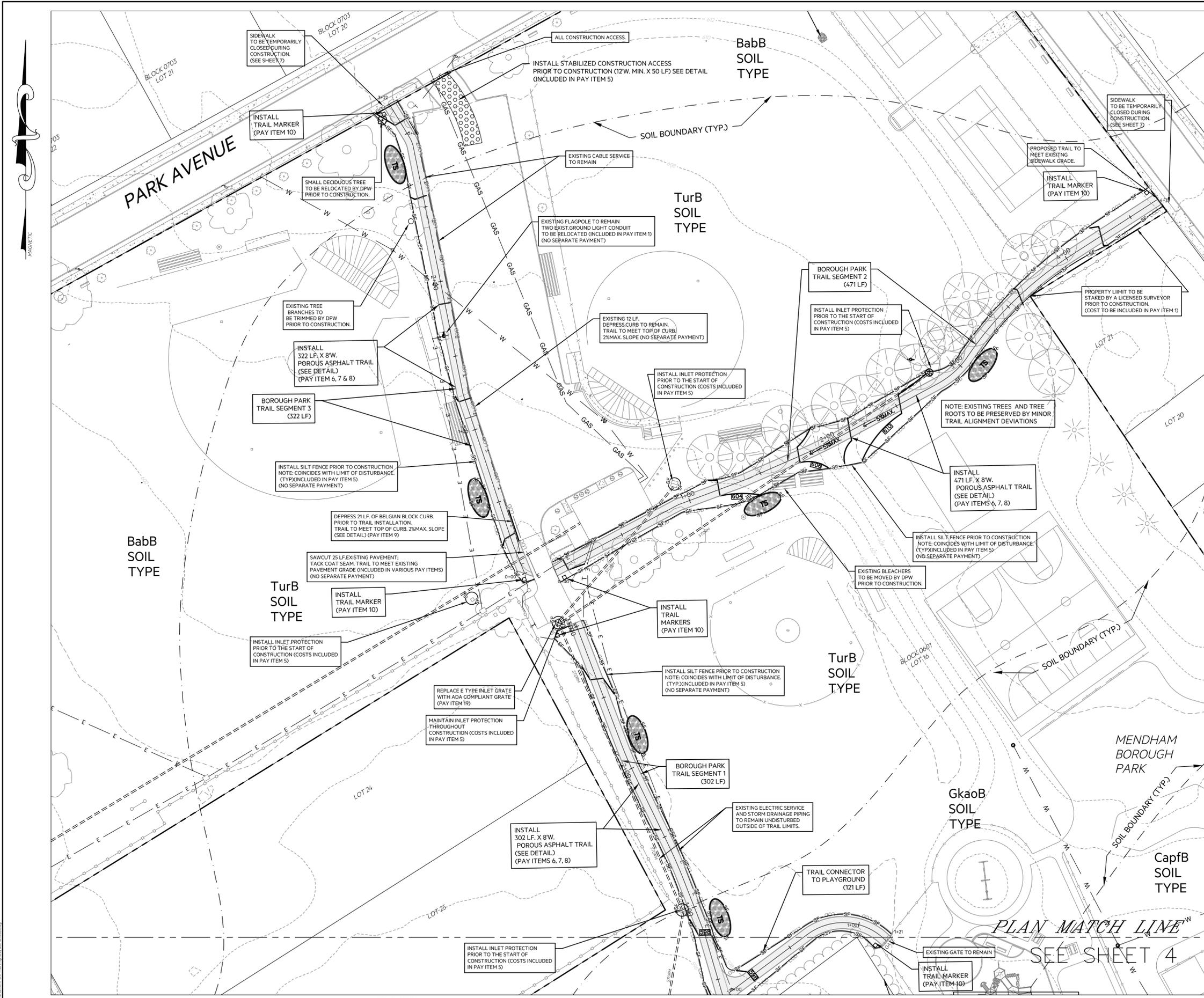
BOSWELL
 EST 1924
 BOSWELLENGINEERING.COM
 180 MAIN STREET, P.O. BOX 571, CHESTER, NJ 07930
SOUTH HAVEN, NJ 07088 | CHESTER, NJ 07924 | HOPWELL, NJ 07941 | ALBANY, NY 12207 | POCONO, NY 18342
 205.641.0770 | 908.879.6209 | 609.466.0202 | 518.436.6130 | 914.682.5900
 N.J. CERTIFICATE OF AUTHORIZATION No. 24GA27968000

MENDHAM BOROUGH PARK AND ARBORETUM TRAIL OVERALL AND DEMOLITION PLAN
 LOTS 5, 5.01 & 16 - BLOCK 601
 BOROUGH OF MENDHAM
 MORRIS COUNTY, NEW JERSEY

SURVEYED BY:	DESIGNED BY:	DATE:	JOB NO.:
KEM	KEM	10/06/2025	25MD103
DRAWN BY:	CHECKED BY:	SCALE:	SHEET:
KEM	RB/PWF	AS NOTED	2 OF 7



COPYRIGHT © 2025 BY BOSWELL, INC. ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM BY ANY MEANS, ELECTRONIC, MECHANICAL, PHOTOCOPIING, RECORDING, OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF BOSWELL, INC.



LEGEND

	PROPOSED PLANTING WHITE OAK		PROPOSED PLANTING REDBUD
	PROPOSED PLANTING AMERICAN SYCAMORE		PROPOSED PLANTING WILLOW
	PROPOSED PLANTING TULIP TREE		PROPOSED PLANTING NORWAY SPRUCE
	PROPOSED PLANTING FLOWERING DOGWOOD		

NOTE: SEE PLANTING SCHEDULE ON SHEET 4.

	PROPOSED PARK BENCH		SELECT EXISTING TREES NOTE: ALL EXISTING TREES TO BE PRESERVED TO THE GREATEST EXTENT POSSIBLE.
	PROPOSED TRAIL SIGN		EXISTING TREE LINE
	TOPSOIL STOCKPILE		APPROX. CABLE LINE
	SILT FENCE		APPROX. ELECTRIC LINE
	LIMIT OF DISTURBANCE NOTE: LIMIT OF DISTURBANCE TO COINCIDE WITH SILT FENCE UNLESS OTHERWISE NOTED.		APPROX. SANITARY CONNECTION
			APPROX. WATER CONNECTION

- ### CONSTRUCTION NOTES:
- SEE CONSTRUCTION DETAILS FOR TRAIL INSTALLATIONS.
 - ALL COSTS FOR SOIL EROSION & SEDIMENT CONTROL MEASURES, INCLUDING SILT FENCE AND INLET PROTECTION, SHALL BE INCLUDED IN PAY ITEM 5.
 - MINOR DEVIATIONS MAY BE MADE TO THE TRAIL ALIGNMENT TO AVOID MATURE TREES AND ROOTS, OBSTRUCTIONS OR UNDERGROUND UTILITIES, AS DIRECTED BY THE RE.

SOILS LEGEND

BabB	BARTLEY LOAM, 3 TO 8 PERCENT SLOPES
CapB	CALIFON VARIANT LOAM, 3 TO 8 PERCENT SLOPES,
GkaoB	GLADSTONE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES
GkaoC	GLADSTONE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES
TurB	TURBOTVILLE LOAM, 3 TO 8 PERCENT SLOPES

NO.	DATE	DESCRIPTION	REVISED BY	CHECKED BY

PAUL W. FERRIERO
 PROFESSIONAL ENGINEER N.J. LIC. 32978

BOSWELL

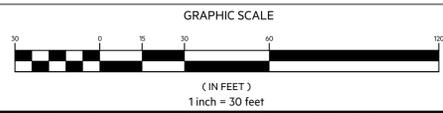
EST 1924
 BOSWELLENGINEERING.COM
 180 MAIN STREET, P.O. BOX 571, CHESTER, NJ 07930

SOUTH HAVEN, NJ 07088 CHESTER, NJ 07927 ALBANY, NY 12207 POCONO, NY 18342
 205 641 0770 908 879 6209 609 466 0202 518 436 6330 914 682 5900
 N.J. CERTIFICATE OF AUTHORIZATION No. 24GA27968000

MENDHAM BOROUGH
 PARK AND ARBORETUM TRAIL
 GRADING, SOIL EROSION &
 SEDIMENT CONTROL PLAN -1

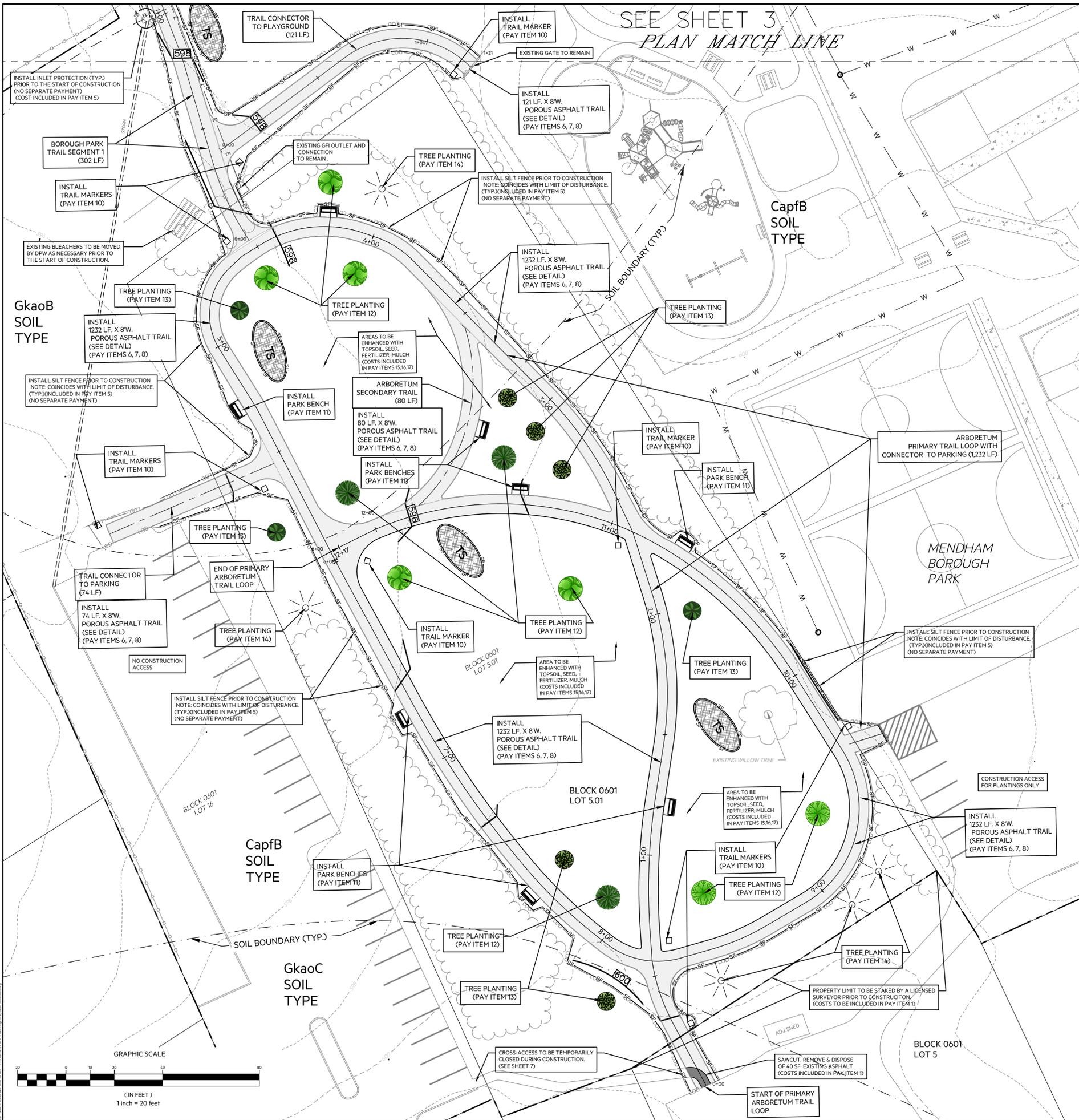
LOTS 5, 5.01 & 16 - BLOCK 601
 BOROUGH OF MENDHAM
 MORRIS COUNTY, NEW JERSEY

SURVEYED BY:	DESIGNED BY:	DATE:	JOB NO.:
KEM	KEM	10/06/2025	25MD103
DRAWN BY:	CHECKED BY:	SCALE:	SHEET:
KEM	RB/PWF	AS NOTED	3 OF 7

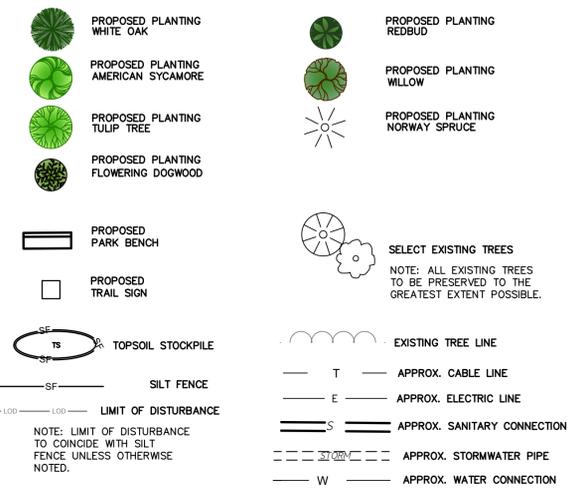


COPYRIGHT © 2025 BY BOSWELL, INC. ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM BY ANY MEANS, ELECTRONIC, MECHANICAL, PHOTOCOPIING, RECORDING, OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF BOSWELL, INC.

SEE SHEET 3
PLAN MATCH LINE



LEGEND



PROPOSED PLANTING SCHEDULE

PAY ITEM 12	PAY ITEM 13	PAY ITEM 14
LARGE DECIDUOUS TREES	UNDERSTORY TREES	EVERGREEN
WHITE OAK (3)	FLOWERING DOGWOOD (5)	NORWAY SPRUCE (5)
AMERICAN SYCAMORE (5)	REDBUD (3)	
TULIP TREE (2)		

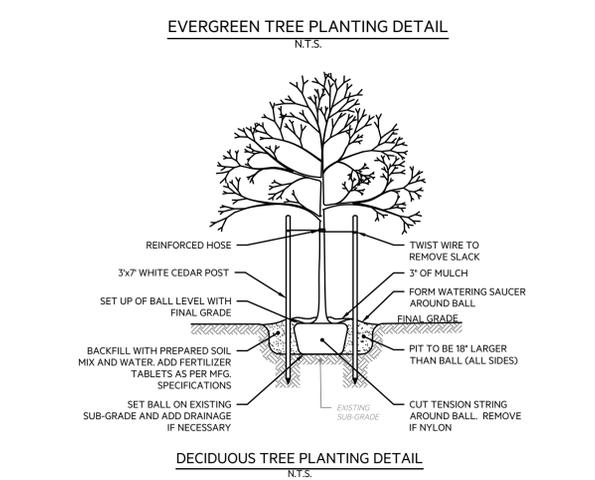
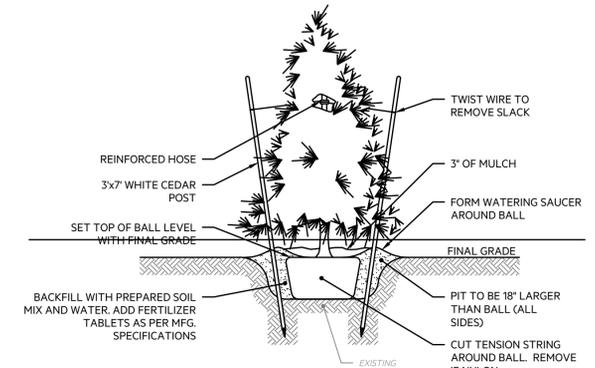
TOTAL PROPOSED TREES: 23 COUNT

- NOTE:
1. PAY ITEMS FOR ALL PLANTED TREES SHALL INCLUDE 2 YEAR WARRANTIES.
 2. ALL PLANTINGS SHALL BE NATIVE, NON-INVASIVE SPECIES.

- CONSTRUCTION NOTES:**
1. SEE CONSTRUCTION DETAILS FOR TRAIL INSTALLATIONS.
 2. ALL COSTS FOR SOIL EROSION & SEDIMENT CONTROL MEASURES, INCLUDING SILT FENCE AND INLET PROTECTION, SHALL BE INCLUDED IN PAY ITEM 5.
 3. MINOR DEVIATIONS MAY BE MADE TO THE TRAIL ALIGNMENT TO AVOID MATURE TREES AND ROOTS, OBSTRUCTIONS OR UNDERGROUND UTILITIES, AS DIRECTED BY THE RE.
 4. ALL AREAS ENCLOSED BY THE ARBORETUM TRAIL LOOPS SHALL BE ENHANCED BY TOPSOIL, FERTILIZER, SEED AND MULCH PER SCD STANDARDS (COSTS INCLUDED IN PAY ITEMS 15, 16, 17).

SOILS LEGEND

BabB	BARTLEY LOAM, 3 TO 8 PERCENT SLOPES
CapfB	CALIFON VARIANT LOAM, 3 TO 8 PERCENT SLOPES,
GkaoB	GLADSTONE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES
GkaoC	GLADSTONE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES
Turb	TURBVILLE LOAM, 3 TO 8 PERCENT SLOPES



NO.	DATE	DESCRIPTION	REVISED BY	CHECKED BY

PAUL W. FERRIERO

PROFESSIONAL ENGINEER N.J. LIC. 32978

BOSWELL
EST 1924
BOSWELLEN지니어ING.COM

180 MAIN STREET, P.O. BOX 571, CHESTER, NJ 07930

SOUTH HAVEN, CT 06488
CHESTER, NJ 07930
MORRIS COUNTY, NJ 07960
ALBANY, NY 12207
POCONO, PA 18342
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24627968000

MENDHAM BOROUGH PARK AND ARBORETUM TRAIL GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN - 2

LOTS 5, 5.01 & 16 - BLOCK 601
BOROUGH OF MENDHAM
MORRIS COUNTY, NEW JERSEY

SURVEYED BY:	DESIGNED BY:	DATE:	JOB NO.:
KEM	KEM	10/06/25	25MD103
DRAWN BY:	CHECKED BY:	SCALE:	SHEET:
KEM	RB/PWF	AS NOTED	4 OF 7

MORRIS COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION & SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. SEE NOTE 22 BELOW.
- PERMANENT VEGETATION IS TO BE ESTABLISHED ON EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL VEGETATION IS ESTABLISHED. SEE NOTE 23 BELOW.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, WET CONDITIONS) SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN ACCORDANCE WITH NOTE 22 BELOW.
- TEMPORARY DIVERSION BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS. SEE THE DIVERSION DETAIL.
- PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARD FOR PERMANENT VEGETATION COVER FOR SOIL STABILIZATION". SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SO THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS) WILL BE INSPECTED AND MAINTAINED DAILY.
- STOCKPILES SHALL NOT BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILE BASES SHALL HAVE A SILT FENCE PROPERLY ENTRENCHED AT THE TOE OF SLOPE.
- A STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED, WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD. SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL AND CHART FOR DIMENSIONS.
- ALL NEW ROADWAYS WILL BE TREATED WITH SUITABLE SUB BASE UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.
- ALL DEWATERING OPERATIONS MUST BE DISCHARGED DIRECTLY INTO A SEDIMENT FILTER AREA. THE FILTER SHOULD BE COMPOSED OF A FABRIC OR APPROVED MATERIAL. SEE THE DEWATERING DETAIL.
- ALL SEDIMENT BASINS WILL BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE IDENTIFIED ON THE PLAN AND A MARKER INSTALLED ON THE SITE DURING AND AFTER CONSTRUCTION. THE APPLICANT WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATION COVER, AND ANY OTHER MEASURES DEEMED APPROPRIATE BY THE DISTRICT. SAID RESPONSIBILITY WILL END WHEN COMPLETED WORK IS APPROVED BY THE MORRIS COUNTY SOIL CONSERVATION DISTRICT.
- ALL TREES OUTSIDE THE DISTURBANCE LIMIT INDICATED ON THE SUBJECT PLAN OR THOSE TREES WITHIN THE DISTURBANCE AREA WHICH ARE DESIGNATED TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES. SEE THE TREE PROTECTION DETAIL.
- THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON SITE OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION.
- THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE, AND A PRE-CONSTRUCTION MEETING HELD.
- CONTRACTOR TO SET UP A MEETING WITH THE INSPECTOR FOR PERIODIC INSPECTIONS OF THE TEMPORARY SEDIMENT BASIN PRIOR TO AND DURING ITS CONSTRUCTION.
- TOPSOIL STOCKPILE PROTECTION**
 - APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT.
 - APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1000 SQ. FT.
 - APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
 - PROPERTY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.
- TEMPORARY STABILIZATION SPECIFICATIONS**
 - APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT.
 - APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1000 SQ. FT.
 - APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT.
 - MULCH DISTURBED SOIL WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
- PERMANENT STABILIZATION SPECIFICATIONS**
 - APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED).
 - APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT. AND WORK FOUR INCHES INTO SOIL.
 - APPLY FERTILIZER (10-20-10) AT A OF RATE 11 LBS. PER 1000 SQ. FT.
 - APPLY HARD FESCUE SEED AT 2.7 LBS. PER 1000 SQ. FT. AND CREEPING RED FESCUE SEED AT 0.7 LBS PER 1000 SQ. FT. AND PERENNIAL RYEGRASS SEED AT 0.25 LBS PER 1000 SQ. FT.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.

*NOTE: 48 HOURS PRIOR TO ANY SOIL DISTURBANCE, NOTICE IN WRITING, SHALL BE GIVEN TO THE MORRIS COUNTY SOIL CONSERVATION DISTRICT AND A PRE-CONSTRUCTION MEETING HELD.

DUST CONTROL NOTES:

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES: SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY (Pg. 5-1).

VEGETABLE COVER: SEE STANDARDS FOR:
 TEMPORARY VEGETATIVE COVER-Pg.7-1
 PERMANENT VEGETATIVE COVER-Pg.4-1
 PERMANENT STABILIZATION WITH SOD-Pg.6-1

SPRAY-ON ADHESIVES: ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF AREAS.

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS / ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM)- DRY SPRAY	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD (PAGES 26-1)		
ACIDULATED SOY BEAN STICK	NONE	COARSE SPRAY	1,200

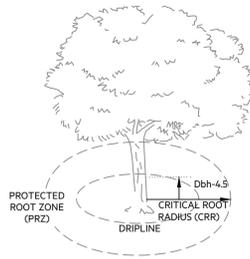
TILLAGE: TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING: SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS: SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SILT BLOWING.

CALCIUM CHLORIDE: 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 STEEP SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



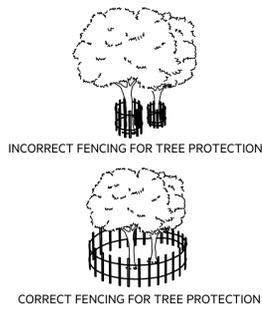
ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR).

- MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5 FEET ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
- MULTIPLY MEASURED DBH BY 15 OR 10. EXPRESS THE RESULT IN FEET.

DBH X 15: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.

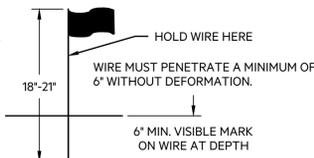
DBH X 10: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY, OR TOLERANT SPECIES.

TREE PROTECTION - ROOT ZONE
N.T.S.



TREE PROTECTION
N.T.S.

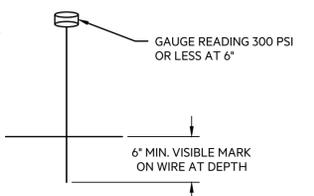
NOTE: SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE WIRE.



PROBING WIRE TEST
N.T.S.

WIRE MAY BE RE-INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.

NOTE: SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE PROBE. PROBE MUST PENETRATE AT LEAST 6" WITH LESS THAN 300 PSI READING ON THE GAGE.



HANDHELD SOIL PENETROMETER TEST
N.T.S.

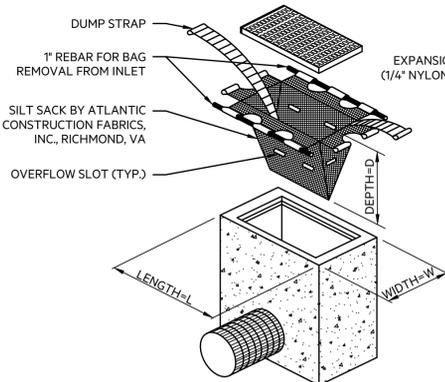
PENETROMETER MAY BE RE-INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.

NOTE:

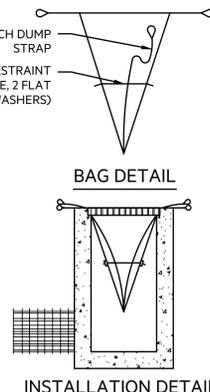
SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS CONDUCTED PRIOR TO THE APPLICATION OF TOPSOIL. (SEE SEQUENCE OF CONSTRUCTION)

SOIL COMPACTION TESTING METHODS
N.T.S.

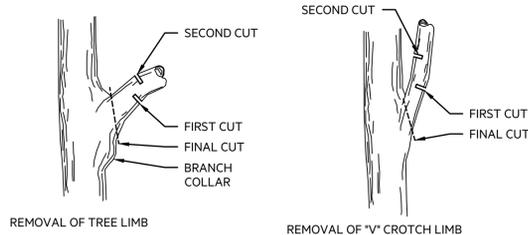
AREA	SQUARE FEET	ACRES
SOIL DECOMPACTION AREA	43,620	1.01
TOTAL SOIL DISTURBANCE	64,950	1.49



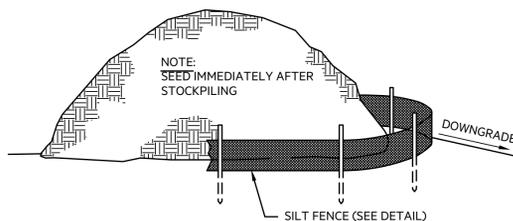
INLET FILTER TYPE 2
N.T.S.



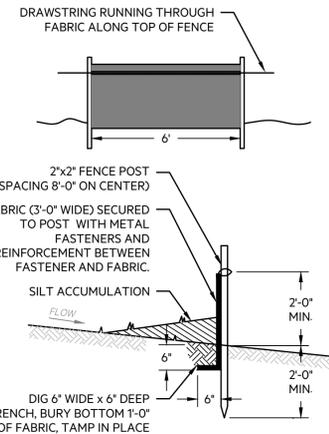
INSTALLATION DETAIL
N.T.S.



TREE LIMB REMOVAL DETAILS
N.T.S.



TYPICAL TOPSOIL STOCKPILE
N.T.S.



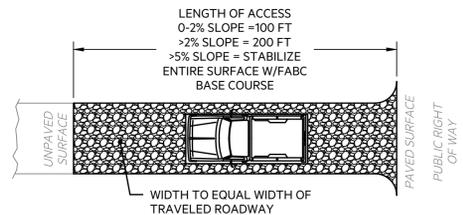
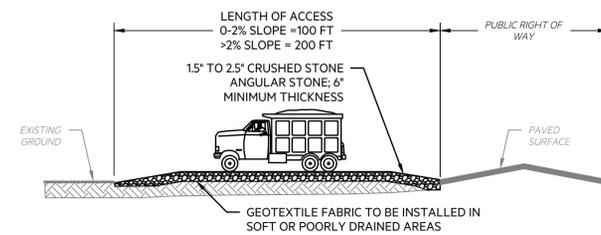
SILT FENCE DETAIL
N.T.S.

REQUIREMENTS FOR SILT FENCE:

- FENCE POSTS SHALL BE SPACED 8 FEET CENTER TO CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1.5 INCHES.
- WHERE INDICATED AS SUPER SILT FENCE A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED. FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
- A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

SEQUENCE OF CONSTRUCTION

- NOTIFY MENDHAM BOROUGH AND MORRIS COUNTY SOIL CONSERVATION DISTRICT, IN WRITING, 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- INSTALL TRAFFIC CONTROL AND SEC. MEASURES (IE CONSTRUCTION ACCESS, SILT FENCE, INLET PROTECTION, ETC.) 2 DAYS
- SITE CLEARING, EXCAVATE, ROUGH GRADING AND REMOVALS. STOCKPILE TOPSOIL. STABILIZE ALL SLOPED AREAS AS NECESSARY. 3 DAYS
- INSTALL TRAILS, BENCHES AND SIGNS. REPLACE INLET GRATE. 2 WEEKS
- FINAL GRADING. SCARIFY SUBSOIL IN DISTURBED AREAS TO A MINIMUM DEPTH OF 6" TO MITIGATE COMPACTION PRIOR TO TOPSOILING. ADD TOPSOIL, SEED & MULCH. 1 WEEK
- PLANT TREES 3 DAYS
- PERMANENT VEGETATIVE STABILIZATION MEASURES. 2 DAYS
- REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER PERMANENT STABILIZATION. 1 DAY



- NOTES:
- MATTING SHALL BE USED TO TEMPORARILY STABILIZE DISTURBED SLOPES IN EXCESS OF 3:1.
 - MATTING SHALL BE EXCELSIOR "CURLX" OR EQUIVALENT.
 - ALL INDIVIDUAL LOT INGRESS/EGRESS POINTS SHALL REQUIRE STABILIZED CONSTRUCTION ENTRANCE ACCESS.

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRADED SOILS	FINE GRADED SOILS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
>5%	ENTIRE SURFACE STABILIZED WITH HOT MIX ASPHALT BASE COURSE, MIX 1-2	

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

NO.	DATE	DESCRIPTION	REVISED BY	CHECKED BY

NO. DATE DESCRIPTION REVISED BY CHECKED BY

PAUL W. FERRIERO

PROFESSIONAL ENGINEER N.J. LIC. 32978

BOSWELL
EST 1924
BOSWELLENGINEERING.COM

180 MAIN STREET, P.O. BOX 571, CHESTER, NJ 07930

SOUTH HAVEN, NJ 07093 CHESTER, NJ 07930 ALBANY, NY 12207 POCONO, PA 18342
 202.641.9779 908.879.6209 609.466.0202 518.436.6370 914.682.5900
 N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27958000

MENDHAM BOROUGH PARK AND ARBORETUM TRAIL

SOIL EROSION & SEDIMENT CONTROL DETAILS AND NOTES

LOTS 5, 501 & 16 - BLOCK 601 BOROUGH OF MENDHAM MORRIS COUNTY, NEW JERSEY

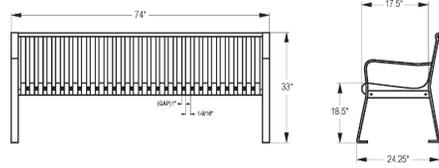
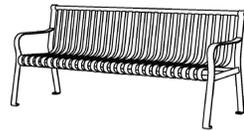
SURVEYED BY: DESIGNED BY: DATE: JOB NO:

- KEM 10/06/25 25MD103

DRAWN BY: CHECKED BY: SCALE: SHEET:

KEM RB/PWF AS NOTED 5 OF 7

STEEL OUTDOOR BENCH WITH STRAIGHT BACK

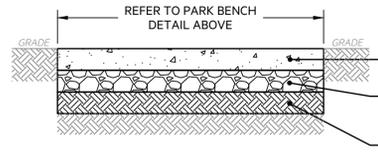


NOTES:

- BENCHES SHALL BE 6' LONG STEEL OUTDOOR BENCH WITH STRAIGHT BACK BY BELSON OUTDOORS, OR APPROVED EQUAL MODEL NO. CBPB-65B-BK. BENCH SHALL BE BLACK.
- EACH SITE BENCH SHALL BE ANCHORED TO A 4" THICK CONCRETE SIDEWALK SLAB. REFER TO 4" CONCRETE SIDEWALK DETAIL FOR PROPOSED SECTION. BENCHES SHALL HAVE A MINIMUM OF 4" CLEARANCE FROM ANCHORING POINT TO EDGE OF FOUNDATION PAD.
- ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING THE PARK BENCH, INCLUDING HARDWARE FOR MOUNTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "PARK BENCH". FURNISHING AND INSTALLATION OF THE CONCRETE SIDEWALK SHALL NOT BE MEASURED AND ALL COSTS SHALL BE INCLUDED IN THE "PARK BENCH" PAY ITEM.
- FINAL LOCATIONS OF EACH PARK BENCH TO BE CONFIRMED BY OWNER/ENGINEER IN THE FIELD.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR THE PARK BENCHES PRIOR TO ORDERING AND INSTALLATION.

PARK BENCH DETAIL
N.T.S.

(PAYMENT ITEM NO. 11)



NOTES:

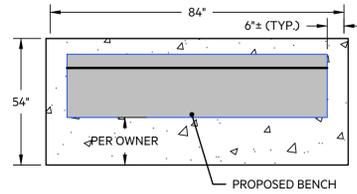
- ALL CONCRETE SURFACES SHALL BE TREATED WITH A CONCRETE CURING AND SEALING COMPOUND.
- PARK BENCH SHALL BE INSTALLED WITHIN THE CONCRETE FOUNDATION PAD. CONTRACTOR TO RESTORE AREAS ADJACENT TO THE PAD AS NEEDED.
- ALL ASSOCIATED COSTS AS DESCRIBED HEREIN SHALL BE INCLUDED UNDER THE UNIT PRICE BID FOR "PARK BENCH".

THE FOLLOWING IS INCLUDED IN THE UNIT PRICE BID FOR PAY ITEM #11:

- EXCAVATION
- SUBGRADE COMPACTION
- 4" DENSE GRADED AGGREGATE BASE COURSE
- CONCRETE FOUNDATION FOR PARK BENCH
- PARK BENCH AND ANCHORS

CONCRETE FOUNDATION FOR PARK BENCH
N.T.S.

(PAYMENT ITEM NO. 11)



NOTES:

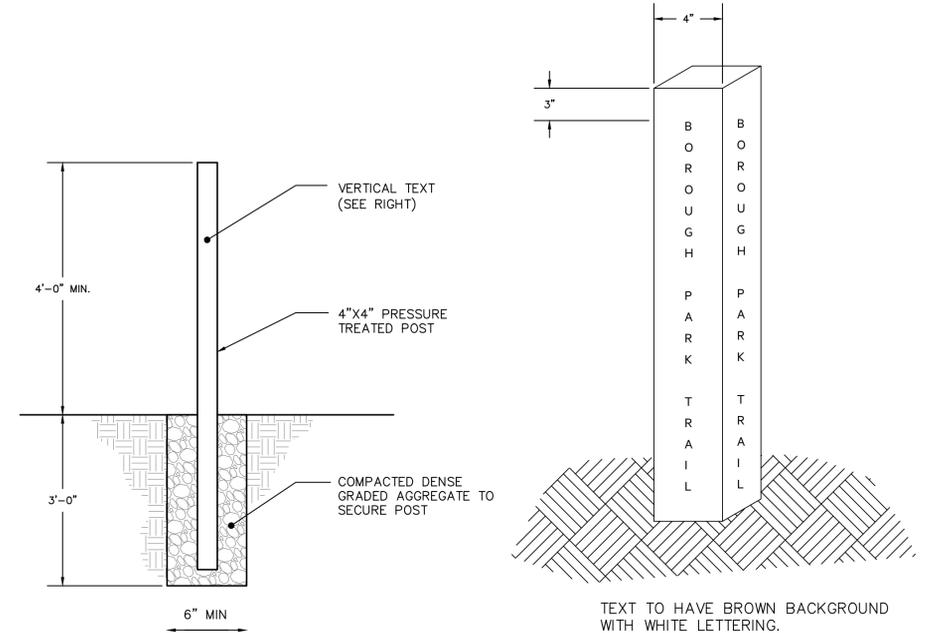
- ALL CONCRETE SURFACES SHALL BE TREATED WITH A CONCRETE CURING AND SEALING COMPOUND.
- PROVIDE 1/2" PREFORMED EXPANSION JOINT FILLER, AS REQUIRED BY THE ENGINEER.
- ALONG TRAIL ROUTE, FOUNDATION PAD MUST BE INSTALLED FLUSH WITH THE FINAL TRAIL PAVEMENT. IN ALL OTHER AREAS, FOUNDATION PAD SHALL BE INSTALLED EITHER FLUSH WITH ADJOINING GRADE OR UP TO 1" ABOVE ADJOINING GRADE TO PROMOTE POSITIVE DRAINAGE.
- FINAL LOCATIONS OF EACH PARK BENCH TO BE DETERMINED BY OWNER/ENGINEER IN THE FIELD.
- ALL COSTS ASSOCIATED WITH PURCHASE, ASSEMBLY AND INSTALLATION OF EACH BENCH AND THE CONSTRUCTION OF CONCRETE FOUNDATION PADS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "PARK BENCH".

THE FOLLOWING IS INCLUDED IN THE UNIT PRICE BID FOR PAY ITEM #11:

- EXCAVATION
- SUBGRADE COMPACTION
- 4" DENSE GRADED AGGREGATE BASE COURSE
- CONCRETE FOUNDATION FOR PARK BENCH
- PARK BENCH & ANCHORS

PARK BENCH ANCHORING DETAIL
N.T.S.

(PAYMENT ITEM NO. 11)

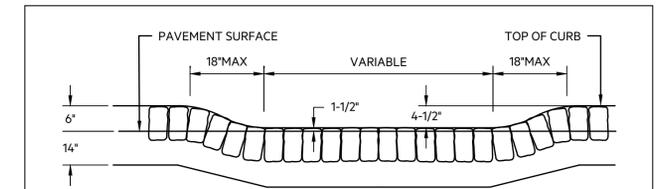


TRAIL MARKER

NOT TO SCALE
(PAYMENT ITEM NO. 10)

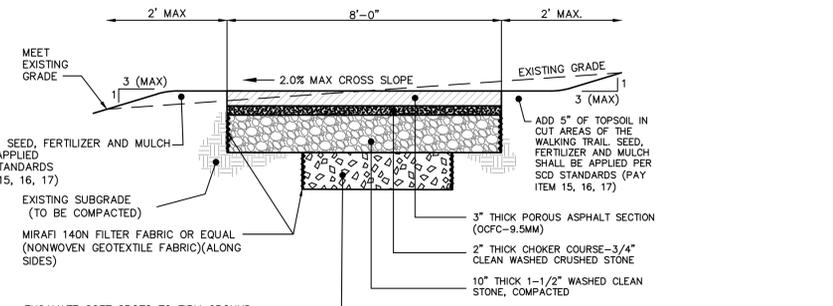
TEXT TO HAVE BROWN BACKGROUND WITH WHITE LETTERING.

NOTE: SIGN TO BE PRE-APPROVED BY ENGINEER PRIOR TO FABRICATION.



DEPRESSED BELGIAN BLOCK CURB
N.T.S.

(PAYMENT ITEM NO. 9)



NOTE: FULL DEPTH OF 1-1/2" CLEAN STONE LAYER MAY BE REDUCED TO AVOID IMPACTS TO UNDERGROUND UTILITIES OR TREE ROOTS FOR SECTIONS OF PARK TRAIL SEGMENTS 1, 2, AND 3 AT THE DISCRETION OF THE RE.

THE FOLLOWING IS INCLUDED IN PAY ITEM 7:

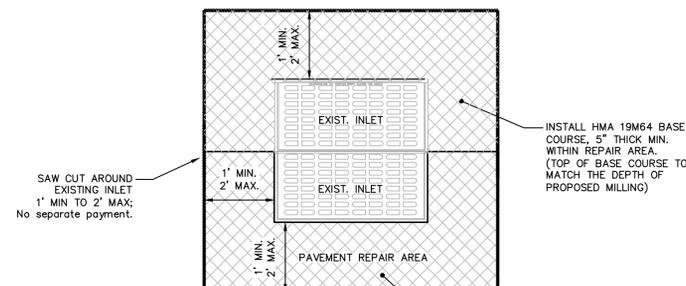
- GRADING
- SUBGRADE COMPACTION
- NONWOVEN GEOTEXTILE FABRIC
- 10" THICK LAYER OF CLEAN STONE
- 2" THICK CHOKER COURSE STONE
- 3" THICK LAYER OF POROUS ASPHALT
- SAWCUTTING (WHERE INDICATED)
- TACK COAT (WHERE INDICATED)
- SUBBASE (WHERE NECESSARY)

CONSTRUCTION NOTES:

- FINISHED RUNNING SLOPE NOT TO EXCEED 1:20. FINISHED CROSS-SLOPE NOT TO EXCEED 1:48.
- PLACE LAYER OF 2 1/2" TO 3" STONE AS A SUBBASE IN ALL AREAS WHERE UNSUITABLE MATERIAL IS ENCOUNTERED AND EXTRA DEPTH EXCAVATION IS REQUIRED. COSTS SHALL BE INCLUDED IN THE EXCAVATION AND EARTHWORK PAY ITEM.
- COSTS TO SAWCUT EXISTING PAVEMENT AND TACK COAT ALONG THE PAVEMENT SEAM WHERE INDICATED ON PLANS SHALL BE INCLUDED IN THE POROUS ASPHALT WALKING TRAIL PAY ITEM. NO SEPARATE PAYMENT.
- COSTS TO APPLY TOPSOIL, FERTILIZER, SEED AND STRAW MULCH SHALL BE INCLUDED IN SEPARATE VARIOUS PAY ITEMS.

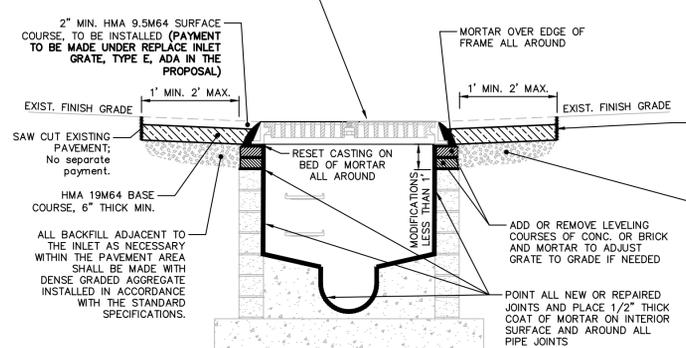
POROUS ASPHALT WALKING TRAIL
NOT TO SCALE

(PAYMENT ITEM NO. 7)



INSTALL HMA 19M64 BASE COURSE, 5" THICK MIN. WITHIN REPAIR AREA. (TOP OF BASE COURSE TO MATCH THE DEPTH OF PROPOSED MILLING)

NEW INLET CASTING, WHERE REQUIRED, SHALL INCLUDE NEW ADA-COMPLIANT EGO GRATE WHERE INDICATED ON THE PLAN (PAYMENT FOR THESE ITEMS TO BE MADE UNDER REPLACE INLET GRATE, TYPE E, ADA ITEM)

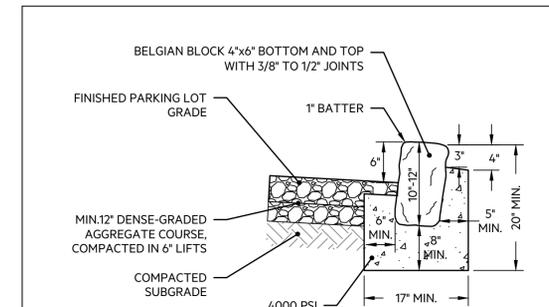


GENERAL NOTES:

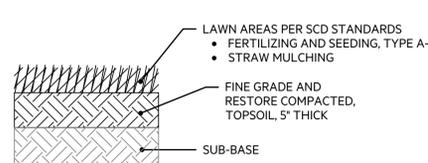
- ALL COSTS ASSOCIATED FOR INLET REPAIR IN THIS DETAIL SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR REPLACE INLET GRATE, TYPE E, ADA ITEM IN THE PROPOSAL UNLESS OTHERWISE SPECIFIED.
- INLET SHALL BE MORTARED AND/OR REPAIRED BEFORE PAVEMENT INSTALLATION.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 602-DRAINAGE STRUCTURES OF THE 2019 N.DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN AMENDED AND CURRENT.

REPLACE INLET GRATE DETAIL
NO SCALE

(PAYMENT ITEM NO. 19)



BELGIAN BLOCK CURB FULL-HEIGHT RESTORATION DETAIL
N.T.S.



NATURAL GRASS RESTORATION DETAIL
N.T.S.

NO.	DATE	DESCRIPTION	REVISED BY	CHECKED BY

PAUL W. FERRIERO

PROFESSIONAL ENGINEER N.J. LIC. 32978

BOSWELL
EST 1924
BOSWELLEN지니어ING.COM

180 MAIN STREET, P.O. BOX 571, CHESTER, NJ 07930

SOUTH HAVEN, CT 06488-0001 CHESTER, NJ 07927-0001 ALBANY, NY 12207-0001 FOND DU LAC, WI 54931-0001
203.641.9779 908.879.6299 609.466.0502 518.436.6370 914.682.5900
N.J. CERTIFICATE OF AUTHORIZATION No. 2462479680000

MENDHAM BOROUGH
PARK AND ARBORETUM TRAIL
CONSTRUCTION DETAILS

LOTS 5, 5.01 & 16 - BLOCK 601

BOROUGH OF MENDHAM

MORRIS COUNTY, NEW JERSEY

SURVEYED BY:	DESIGNED BY:	DATE:	JOB NO.:
KEM	KEM	10/06/25	25MD103
DRAWN BY:	CHECKED BY:	SCALE:	SHEET:
KEM	RB/PWF	AS NOTED	6 OF 7

Franklin-Coventry Path/Park















