

A. GENERAL SITE NOTES

- ### B. SURVEY NOTES

- C. CONTRACTOR/OWNER RESPONSIBILITY NOTES

- #### D. ROADWAY & SIGNAGE NOTES

- N.R.C.S. U.S. DEPARTMENT OF AGRICULTURE SOILS MAP
SCALE: 1" = 500'

E. UTILITY NOTES

- ## F. SOILS DATA NOTES

- ## SOILS DATA

SOILS DATA OBTAINED FROM NATURAL RESOURCES CONSERVATION SERVICES (NRCS) U.S. DEPARTMENT OF AGRICULTURE.

PROJECT LEGEND

OFFICIAL ZONING MAP OF HAINESPORT TOWNSHIP
SCALE: 1" = 2,000'

ORDINANCE SECTION	ZONE R-3 RESIDENTIAL	PERMITTED OR REQUIRED	PROPOSED IMPROVEMENTS	CONFORMITY STATUS
104-48B(1)(b)	USE	APARTMENTS (AFFORDABLE)	APARTMENTS (AFFORDABLE)	CONFORMS
104-48A(1)(a)	MAXIMUM DENSITY	10 UNITS/AC	7 UNITS/AC	CONFORMS
104-48A(1)(b)	PERIMETER SETBACK	50'	51.2'	CONFORMS
104-48A(1)(c)	BUILDING SEPARATION	FRONT TO BACK	50'	N/A
		SIDE TO SIDE	25'	30'
		SIDE TO FRONT	35'	60.9'
		SIDE TO BACK	35'	39.4'
	MAXIMUM HEIGHT	35'	35'	CONFORMS
104-48A(1)(d)	MAXIMUM IMPERVIOUS COVER	45%	29.5%	CONFORMS
104-48A(1)(e)	MINIMUM VEGETATED AREA	30%	48.5%	CONFORMS
104-48A(1)(g)	MINIMUM PLAN DISTRICT	20 AC	> 20 AC	CONFORMS
104-48A(1)(h)	MINIMUM SETBACK TO MARINE HIGHWAY	75'	112'	CONFORMS
104-48A(1)(i)	MINIMUM OPEN SPACE	30%	48.5%	CONFORMS
104-115B(12)(a)	MINIMUM PARKING	1.75/UNIT x 72 UNITS = 126	148	CONFORMS
NJAC 5:21-4.14(b)	MINIMUM PARKING	143 (SEE CALCULATION)	148	CONFORMS

PARKING CALCULATION:


1 BR =	1.8/UNIT x 14 UNITS =	25.2
2 BR =	2.0/UNIT x 40 UNITS =	80.0
3 BR =	2.1/UNIT x 18 UNITS =	37.8
TOTAL =	72 UNITS =	143.0

UTILITIES

OFFICIAL TAX MAP OF HAINESPORT TOWNSHIP

HAINESPORT TOWNSHIP CERTIFIED OWNER'S LIST WITHIN 200'

1. EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER, ARCHITECT, AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL ISSUED FOR CONSTRUCTION. APPEARANCES IN THE TITLEBLOCK.

JASON T. SCIULLO, P.E., P.P.
PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24620-0498000
PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 3310062440

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DAVENPORT VILLAGE EXPANSION

BLOCK 9.01, LOT 43
HAINESPORT TOWNSHIP BURLINGTON COUNTY NEW JERSEY

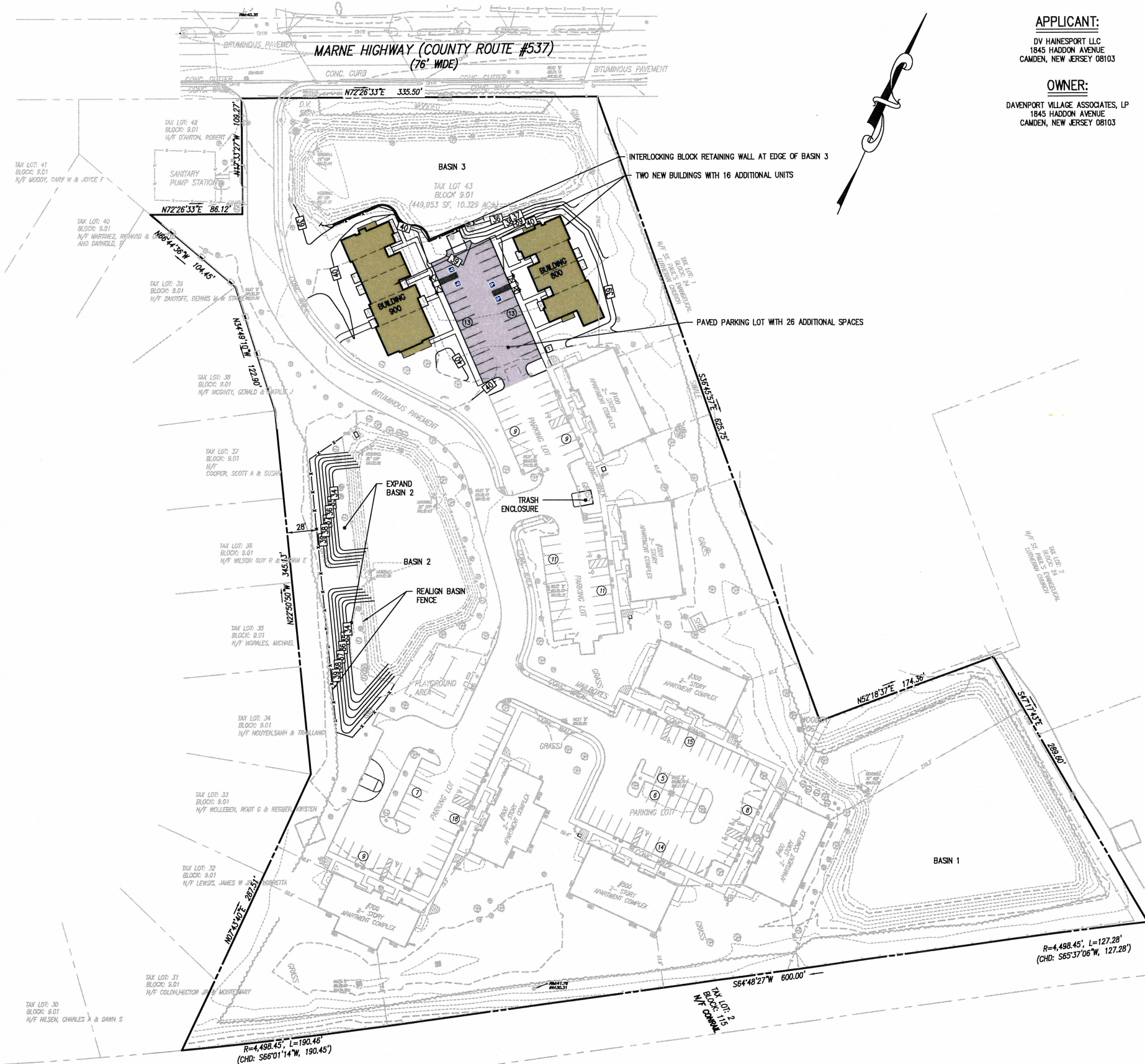
INFORMATION SHEET

DIocese of CAMDEN 1845 HADDON AVENUE
Diocesan Housing Services Corporation CAMDEN, NEW JERSEY

3/30/2022	2	FINAL APPROVAL SUBMISSION	LAT	JTS
8/13/2019	1	INITIAL RELEASE	LAT	JTS
DATT WORKING NO.		SUBMISSION REVISION	BY	ADDO

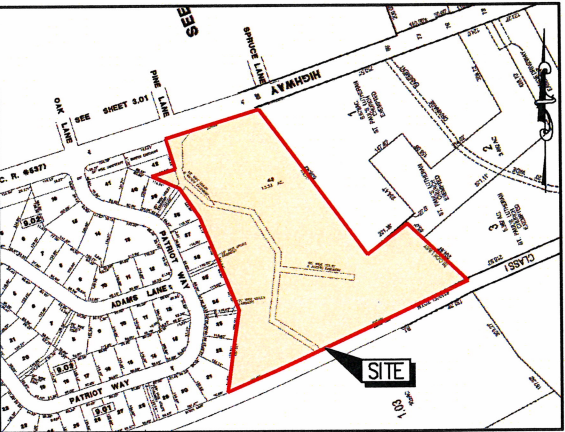
PROJECT NO. DHC 001.01		DRAWING NO. C0002
SCALE AS SHOWN	SHEET 2 OF 11	

C0002

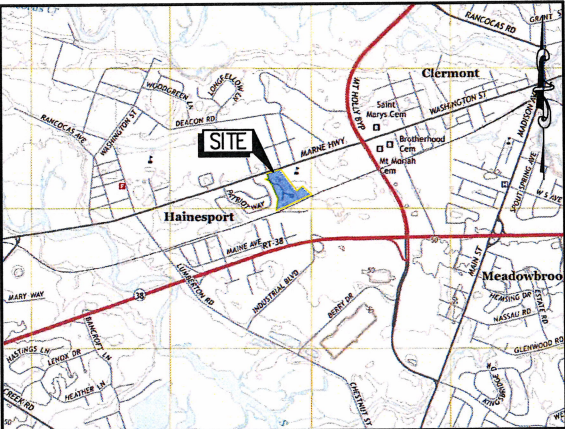


APPLICANT:
DV HAINESPORT LLC
1845 HADDON AVENUE
CAMDEN, NEW JERSEY 08103

OWNER:
DAVENPORT VILLAGE ASSOCIATES, LP
1845 HADDON AVENUE
CAMDEN, NEW JERSEY 08103



OFFICIAL TAX MAP OF HAINESPORT TOWNSHIP



U.S.G.S. MOUNT HOLLY QUAD SHEET LOCATION MAP
SCALE: 1" = 2,000'

ZONING SCHEDULE

ORDINANCE SECTION	ZONE R-3 RESIDENTIAL	PERMITTED OR REQUIRED	PROPOSED IMPROVEMENTS	CONFORMITY STATUS
104-48B(1)(b)	USE	APARTMENTS (AFFORDABLE)	APARTMENTS (AFFORDABLE)	CONFORMS
104-48A(1)(a)	MAXIMUM DENSITY	10 UNITS/AC	7 UNITS/AC	CONFORMS
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		SIDE TO FRONT	35'	60.9'
		SIDE TO BACK	35'	39.4'
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NJAC 5:21-4.14(b)	MINIMUM PARKING	143 (SEE CALCULATION)	148	CONFORMS

PARKING CALCULATION:

PURSUANT TO NJAC 5:21-4.14(b) TABLE 4.4, REQUIRED PARKING IS AS FOLLOWS FOR GARDEN APTS:

1 BR = 1.8/UNIT x 14 UNITS = 25.2
2 BR = 2.0/UNIT x 40 UNITS = 80.0
3 BR = 2.1/UNIT x 18 UNITS = 37.8
TOTAL = 143.0

NOTES:

- BOUNDARY, TOPOGRAPHICAL, AND EXISTING CONDITIONS INFORMATION TAKEN FROM PLAN ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY, TAX LOT 43 BLOCK 9.01, HAINESPORT TOWNSHIP, BURLINGTON COUNTY NJ" BY "VARGO ASSOCIATES SURVEYING AND MAPPING" PROJECT NUMBER 19121, SHEET 1 OF 1, DATED 08/07/2019, AND UNREVISED.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE ADJACENT PROPERTY IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL THEY HAVE BEEN REVIEWED AND APPROVED BY THE APPROPRIATE AGENCIES.

811
Know what's Below.
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JASON T. SCULLO, P.E., P.P.
PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24650469000
PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 33100822400

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PHONE: (609) 300-5771
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NO CERTIFICATE OF AUTHORIZATION NO. 24650469000

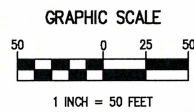
DAVENPORT VILLAGE EXPANSION
BLOCK 9.01, LOT 43
HAINESPORT TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY

OVERALL COMPOSITE SITE PLAN

DIOCESE OF CAMDEN
1845 HADDON AVENUE
CAMDEN, NEW JERSEY 08103

PROJECT NO.	DHC 001.01	DATE	8/13/2019
SCALE	AS SHOWN	SHEET	3 OF 11
ISSUE NO.	1	DATE	8/13/2019
BY	JTS	DATE	8/13/2019
APPROVED	JTS	DATE	8/13/2019

C0100



SITE PLAN
SCALE: 1" = 30'




1. EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE STATE OF TEXAS. THE ENGINEER ASSUMES NO LIABILITY OR RESPONSIBILITY OF SUCCEEDING ENGINEERING SERVICES, LLC. IT IS THE RESPONSIBILITY OF THE OWNERS TO VERIFY THE ACCURACY OF THE UTILITY INFORMATION AND FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL THE UTILITY INFORMATION APPEARS IN THE TITHEBOOK.

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JASON T. SCIULLO, P.E., P.E.P.
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PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 33J00629400


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NU CERTIFICATE OF AUTHORIZATION NO. 246A28290700

DAVENPORT VILLAGE EXPANSION
BLOCK 6.01, LOT 43
HAINESPORT TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY

DEMOLITION / SITE PLAN

 **DIOCESE OF CAMDEN** 1845 HADDON AVENUE
Diocesan Housing Services Corporation CAMDEN, NEW JERSEY 08103

PROJECT NO. DHC 001.01		DRAWING NO. C0101	
SCALE AS SHOWN	SHEET 4 OF 11	DATE 3/29/2023	2
		FINAL APPROVAL SUBMISSION	LAT
		INITIAL RELEASE	LAT
		8/23/2020	1
		DATE OF RELEASE	DATE OF RELEASE



811

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SCULLO ENGINEERING SERVICES, LLC

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JASON T. SCULLO, P.E., P.P.

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PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 33100828400

DAVENPORT VILLAGE EXPANSION
BLOCK 9.01, LOT 43
HANESPORT TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY

GRADING PLAN

DIocese of Camden 1845 HADDON AVENUE
Camden, New Jersey 08103

Diocesan Planning Services Corporation

PROJECT NO. DHC 001.01

SCALE 1" = 30'

DATE 5/13/2019

BY JTS

DATE 5/13/2019

BY JTS

DATE 5/13/2019

BY JTS

2

FINAL APPROVAL SUBMISSION

1

INITIAL RELEASE

1

SUBMISSION/REVISION

1

DATE

5/13/2019

BY

JTS

C0301



1. ENDORSING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF THE ENGINEER, ARCHITECT, OR CONTRACTOR. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO CALL 1-800-272-0000 FOR INFORMATION ON THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL ISSUED FOR CONSTRUCTION. APPEARS IN THE TITLEBLOCK.

JASON T. SCIULLO, P.E., P.P.
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PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 33J00629400

[Signature]

jtsullo@ecolivinglineing.com

SE **SCIULLO**
ENGINEERING
SERVICES, LLC

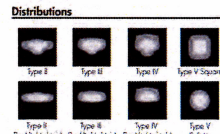
17 SOUTH GORDON'S ALLEY, SUITE 3
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www.sciulloengineering.com

NU CERTIFICATE OF AUTHORIZATION NO. 246282950700

DAVENPORT VILLAGE EXPANSION
 BLOCK 9.01, LOT 43
 HANESPORT TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY

PROJECT NO. DHC 001.01		DECKING NO. C0401	
SCALE 1" = 30'	DATE 6 OF 11	3/30/2022	2
		FINAL APPROVAL SUBMISSION	LAT
		INITIAL RELEASE	LAT
		8/13/2019	1
		DATE	BY
		SUBMISSION APPROVAL	APPROVAL

Configured Specification Sheet



Colors and Color Temperatures



Control

ON/OFF 0-10V

Rating

IP66 (light engine only)

Certifications



Description

The Lumenicon Area Medium creates a consistent aesthetic while illuminating city streets, local roads, residential streets, parking lots and townways. An innovative, toolless opening system makes the plug-and-play components easy to access. IP66 rated with phenomenal heat dissipation; the Lumenicon Area Medium is ready to take it to the streets (for parking lots, or building sides, or overhangs, or...).

Features

Color and Color Temperature 2200K, 2700K, 3000K, 3500K, 4000K, 5700K

Distributions Type II, Type III or Type IV (with or without backlight shield), Type V square and Type V Square

3G Vibration Rated Meets 3G ANSI C136.31 vibration standard for bridge applications

Options Surge protector, 5 pins receptacle, 5 pins receptacle with shunting cap, 7 pins receptacle, 7 pins receptacle with shunting cap

Warranty 5-year limited warranty

Performance

Output (nominal lumens) Minimum 3000lm / Maximum 20000lm

Color Rendering 3 SDCM or CRI 70+ and 2 SDCM or CRI 80+

Lumen Maintenance TM-21 L70 L52,000 hrs (projected, Ta 77 °F), 35,000 hrs (reported, Ta 77 °F)

Dark sky Dark sky compliant (2200K, 2700K, 3000K and 3500K Color temperatures, BUG rating of U0)

LIGHT FIXTURE

N.T.S.

LIGHT SCHEDULE

SYM.	QTY	MANUFACTURER	MOUNTING HEIGHT	DESCRIPTION	DISTRIBUTION PATTERN	CATALOG NUMBER	FINISH
☼	2	LUMENICON	25'	LUMENICON MEDIUM	TYPE V SQUARE	LUM-120-277-CS-1200-30K-CR 80-55	BK

LIGHTING NOTES

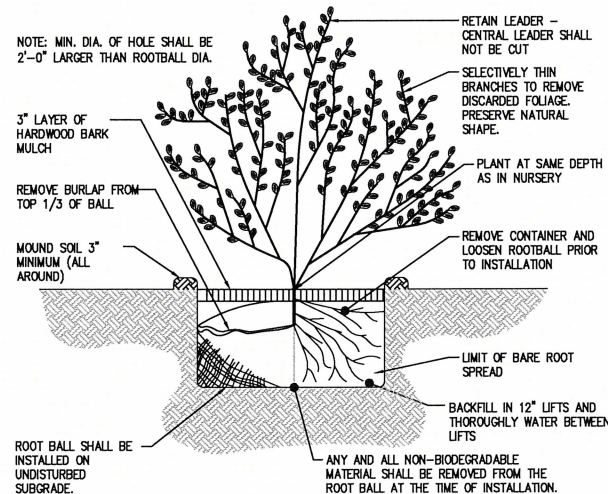
1. LIGHTING LEVELS SHOWN ARE AS PROVIDED BY LIGHTING MANUFACTURER & ARE IN FOOTCANDLES (FC).
2. HOURS OF ILLUMINATION WILL BE FROM DUSK TO DAWN, LIGHTS SHALL BE CONTROLLED BY PHOTOCELL.

LANDSCAPE SCHEDULE

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
SHADE TREES					
AR	3	ACER RUBRUM	RED MAPLE	2 1/2" - 3" CAL.	B & B
EVERGREEN TREES					
IC	17	ILEX CRENATA	STEEDS HOLLY	5' - 6' HT	B & B
IO	6	ILEX OPACA	AMERICAN HOLLY	5' - 6' HT	B & B
PP	6	PICEA PUNGENS	COLORADO BLUE SPRUCE	5' - 6' HT	B & B
RI	7	RHODODENDRON INDICUM	AZALEA INDICA	5' - 6' HT	B & B
TO	4	THUJA OCCIDENTALIS	ARBORVITAE	3' - 4' HT	B & B
DECIDUOUS SHRUBS					
CA	12	CLETHRA ALNIFOLIA	SUMMERSWEET	18" - 24" HT	B & B
EVERGREEN SHRUBS					
IG	18	ILEX GLABRA	INKBERRY HOLLY	18" - 24" HT	B & B

LANDSCAPE NOTE

1. ALL EXISTING STREET TREES REMOVED DURING CONSTRUCTION, SHALL BE REPLACED.

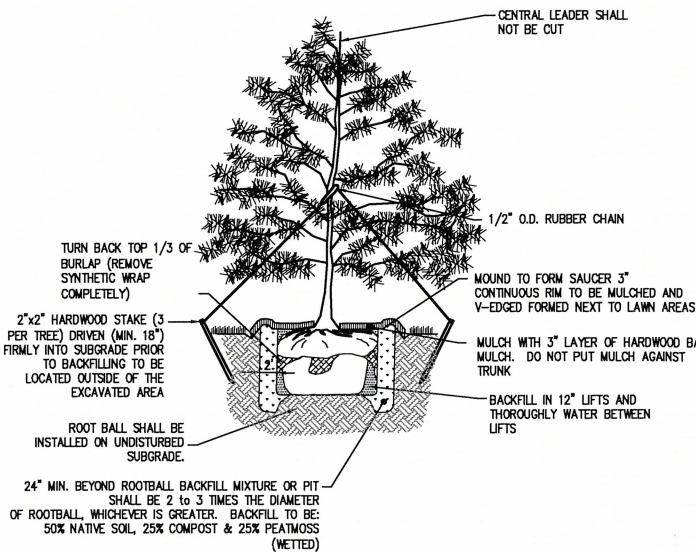


SHRUB DETAIL

N.T.S.

NOTES:

1. DIAMETER OF HOLE SHALL BE A MINIMUM OF 2'-0" LARGER THAN ROOTBALL DIAMETER OR 2 TO 3 TIMES THE WIDTH OF ROOTBALL, WHICHEVER IS LARGER. A LARGER DIAMETER SHALL BE PROVIDED IN POORLY DRAINING SOIL, COMPACTED SOILS, OR URBAN CONDITIONS.
2. EVERGREEN TREES UNDER 4'-6" HEIGHT DO NOT REQUIRE GUYING AND STAKING
3. TOP OF ROOTBALL SHALL BE SET A MAXIMUM OF 1'-3" ABOVE FINISHED GRADE TO ALLOW FOR SETTLING AND THE ROOTFLARE SHALL BE PARTIALLY VISIBLE. TOP OF ROOTBALL ELEVATION SHALL NEVER BE PLACED BELOW FINISHED GRADE.

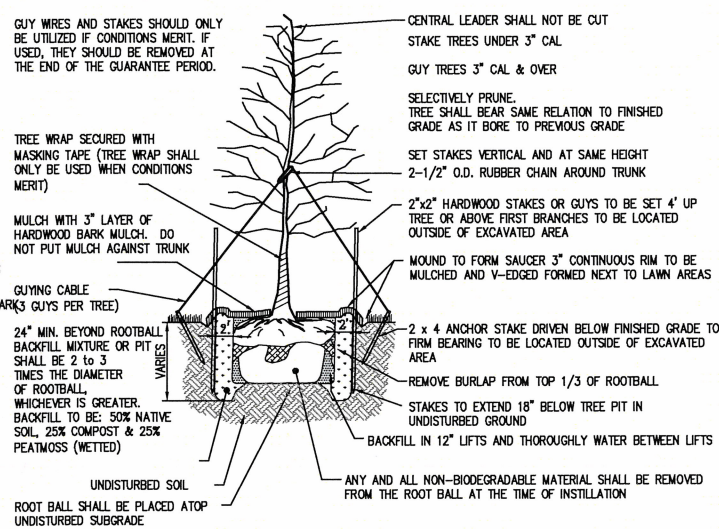


EVERGREEN TREE DETAIL

N.T.S.

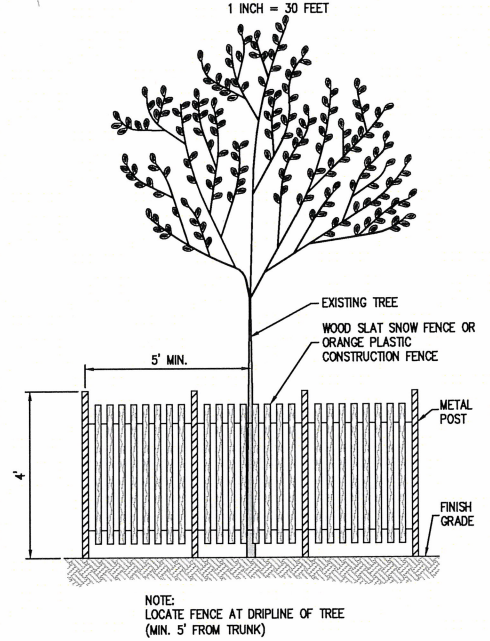
NOTES:

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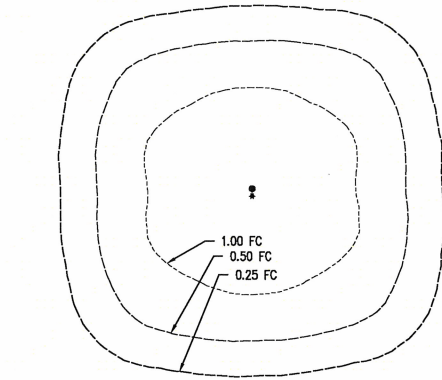
DECIDUOUS TREE DETAIL

N.T.S.



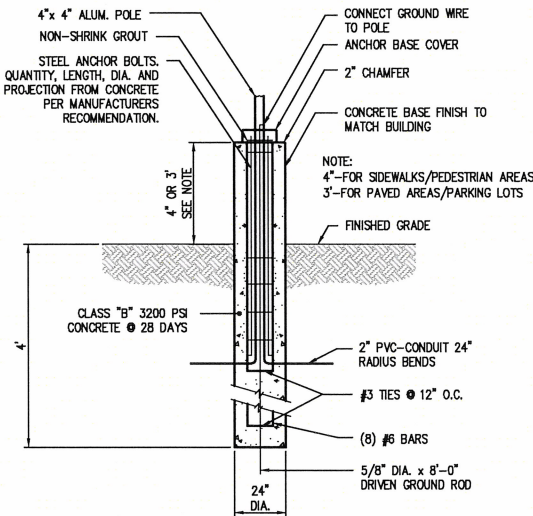
TREE PROTECTION FENCE DETAIL

N.T.S.



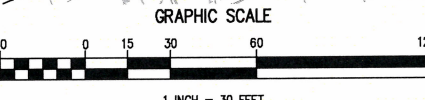
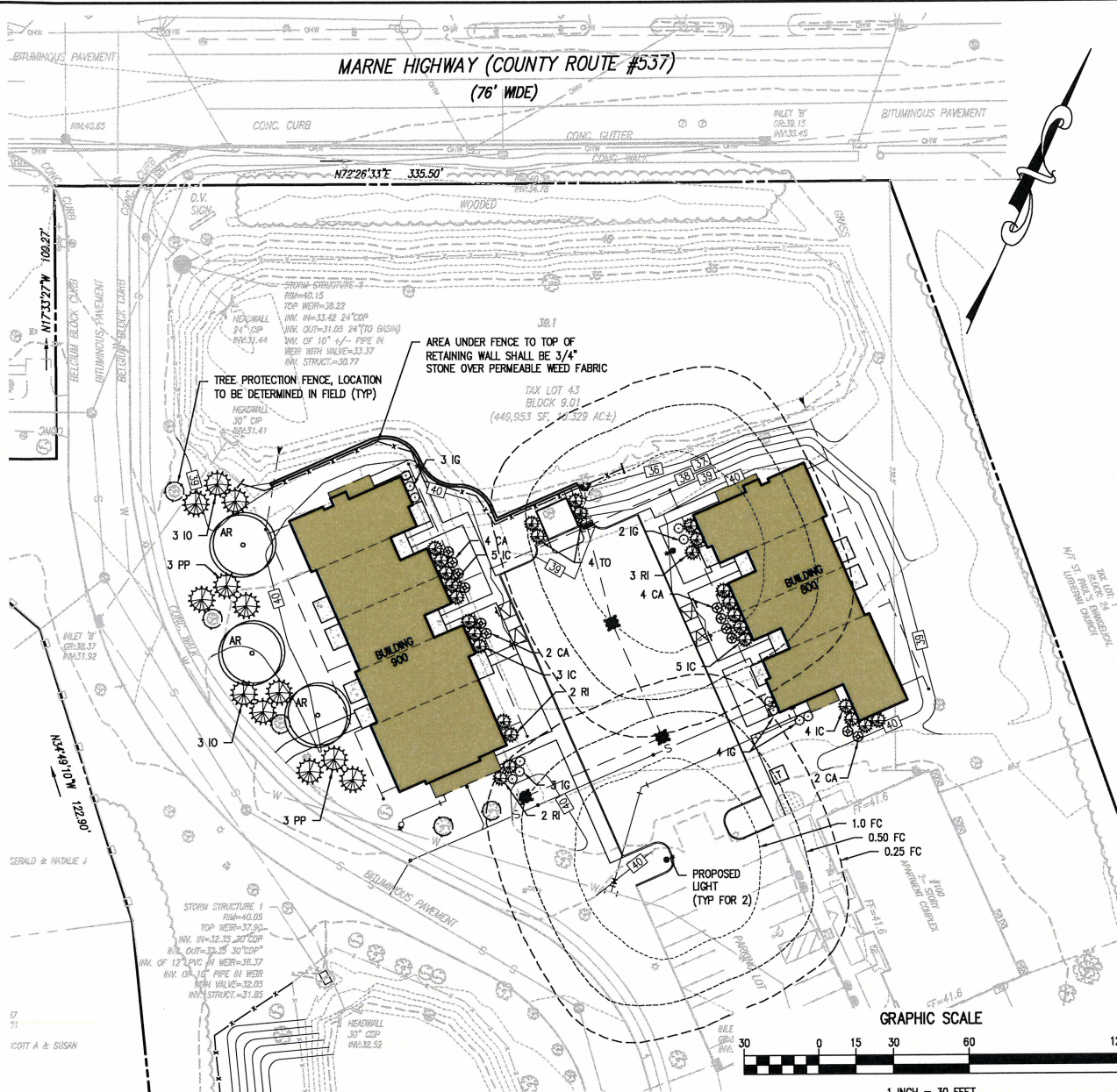
DISTRIBUTION PATTERN TYPE V SQUARE

N.T.S.



RAISED LIGHT POLE BASE DETAIL

N.T.S.



811 logo and text: "Know what's below. Call before you dig."

Professional Engineer information for Jason T. Scullo, P.E., P.P., License No. 24604586000.

Sciullo Engineering Services, LLC logo and contact information.

Diocese of Camden logo and contact information.

Project information table including dates, approvals, and sheet number C0601.

DESIGNED ON 12/19/2016, LAST MODIFIED ON 05/17/2022

0:\BUREAU\LANDSCAPE - BUILDING\DAVENPORT - BUILDING\DAVENPORT 0810 CAMDEN DIocese, HANESPORT\DAVENPORT PLANS\DAVENPORT

EROSION NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL APPLY TO SUBSEQUENT OWNERS IF TITLE IS CONVEYED.
2. THIS PLAN IS TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY.
3. SOIL EROSION AND SEDIMENT CONTROL IMPLEMENTATION SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT.
4. ALL TOPSOIL STORAGE AREAS SHALL BE REMOVED PRIOR TO FINAL OCCUPANCY OF THE BUILDING AND AREA RESTORED TO PRE-DEVELOPMENT CONDITIONS.
5. SOIL HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE MUST BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE BEFORE SEEDING PREPARATION.
6. N.J.S.A. 4:24-39, E.T. SEC. 2, REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
7. SEE DRAWING NUMBER C1301 FOR SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
8. N.J.S.A. 4:24-39 E.T. SEC. 2, REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE COMPLETION OF A SOIL COMPACTION MITIGATION VERIFICATION FORM AND CONFIRMATION BY THE DISTRICT INSPECTOR THAT THE COMPACTION MITIGATION REQUIREMENTS IN THE STANDARD FOR LAND GRADING HAVE BEEN SUFFICIENTLY ADDRESSED

LEGEND

- TEMPORARY STANDARD SILT FENCE/LIMIT OF DISTURBANCE
- LIMIT OF DISTURBANCE
- SOILS RESTORATION LIMIT
- SOILS LIMIT LINE
- PERVIOUS AREAS THAT ARE UNDER THE 500 SF RESTORATION LIMIT, THEREFORE, SOIL COMPACTION TESTING IS NOT REQUIRED.
- SOIL RESTORATION AREA (SOIL TESTING REQUIRED FOR AREAS OF DISTURBANCE TO BE RESTORED TO LANDSCAPE OVER 500 S.F.)
- CT-1
- SOIL COMPACTION TEST REQUIRED (DISPERSED IN OPEN AREAS WITH FINAL LOCATIONS TO BE DETERMINED IN FIELD)
- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY INLET PROTECTION
- SOILS DESIGNATION

SOILS DATA

ThB TINTON SAND, THICK SURFACE 0-5% SLOPES "A" SOIL GROUP

SOILS DATA OBTAINED FROM NATURAL RESOURCES CONSERVATION SERVICES (NRCS) U.S. DEPARTMENT OF AGRICULTURE.

LIMIT OF DISTURBANCE

TOTAL AREA OF PROPOSED DISTURBANCE = 1.24 AC. (54,048 SF)
TOTAL AREA OF SOIL RESTORATION = 24,395 SF, 0.56 AC
COORDINATES OF CENTER OF SITE = N 403905.76 E 419775.26

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS

1. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
2. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
3. COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR SIMPLIFIED TESTING METHOD (SEE DETAIL BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACTION TESTING METHODS

- A. PROBING WIRE TEST (SEE DETAIL)
- B. HAND-HELD PENETROMETER TEST (SEE DETAIL)
- C. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- D. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

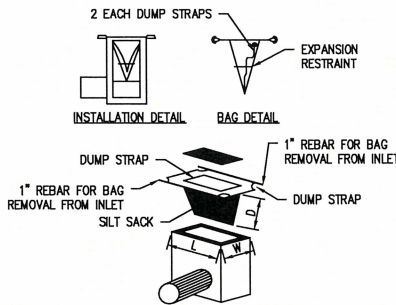
NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

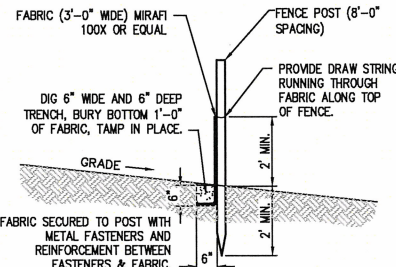
PROCEDURES FOR SOIL COMPACTION MITIGATION

PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

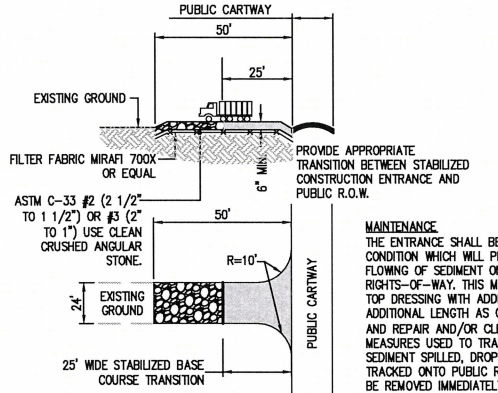
RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLE, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.



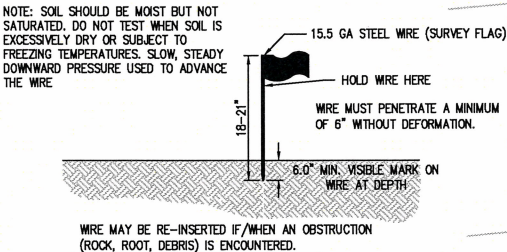
WITHIN PAVED AREAS
INLET PROTECTION DETAIL
N.T.S.



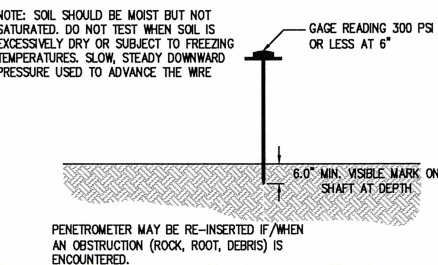
SILT FENCE DETAIL
N.T.S.



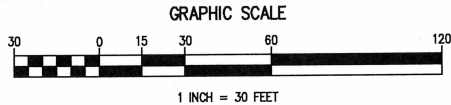
STABILIZED CONSTRUCTION
ENTRANCE DETAIL
N.T.S.



PROBING WIRE TEST
N.T.S.



HANDHELD SOIL PENETROMETER TEST
N.T.S.



811
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NJ CERTIFICATE OF AUTHORIZATION NO. 24604568000

DAVENPORT VILLAGE EXPANSION
BLOCK 9.01, LOT 43
HANESPORT TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY
SOIL EROSION AND SEDIMENT CONTROL PLAN

DIocese of CAMDEN 1845 HADDON AVENUE
Camden, NJ 08103
Diocesan Planning Services Corporation

DATE	ISSUE NO.	BY	APP.
5/13/2019	1	JTS	JTS
5/13/2019	1	JTS	JTS

2 FINAL APPROVAL SUBMISSION
1 INITIAL RELEASE
DATE

PROJECT NO.
DHC 001.01

SCALE
AS SHOWN

SHEET
10 OF 11

C1201

CREATED ON 12/16/2014, LAST MODIFIED ON 06/17/2019

C:\PROJECTS\140626\140626.DWG - SCULLO ENGINEERING SERVICES, L.L.C. - BUREAU PROJECTS\140626.DWG 0101 CAMDEN DIOCESE, UNDERGROUND UTILITY, PLANNING\140626.DWG

GENERAL NOTES

- THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.

BURLINGTON COUNTY SOIL CONSERVATION DISTRICT
1971 JACKSONVILLE-JOBSTOWN ROAD
COLUMBUS, NJ 08022
(609) 267-7410
FAX (609) 267-3347
- SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN INCLUDING REVISION THEREOF MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- IN NO CASE SHALL THE CERTIFICATION OF THE PROJECT BY THE DISTRICT EXTEND BEYOND THREE AND ONE HALF YEARS OF THE ORIGINAL CERTIFICATION DATE.
- PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES, A N.J.PDES REQUEST FOR AUTHORIZATION (RFA) FORM FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED WITH NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) IF THE CONSTRUCTION WILL DISTURB MORE THAN ONE ACRE. THE APPLICATION MUST BE COMPLETED BY THE ENTITY RESPONSIBLE FOR MAINTENANCE OF SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION, TYPICALLY THE DEVELOPER OR CONTRACTOR. THE APPLICATION IS A SIMPLE FORM FILED ON THE NJDEP WEBSITE USING PROJECT CODES PROVIDED BY THE SOIL CONSERVATION DISTRICT. IF REQUIRED, THE ENGINEER WILL ASSIST THE DEVELOPER OR CONTRACTOR BY PROVIDING TECHNICAL INFORMATION TO COMPLETE THE APPLICATION.
- ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
- THE DISTRICT MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DETERMINED BY THE DISTRICT
- OFFSITE LAND DISTURBANCE MAY REQUIRE ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE DETERMINED BY THE DISTRICT.
- STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- N.J.S.A. 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY, TEMPORARY OR PERMANENT, BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY. INSPECTION FOR THE CERTIFICATE OF OCCUPANCY MUST BE SCHEDULED AT LEAST A WEEK IN ADVANCE.
- N.J.S.A. 4:24-39, ET SEQ. REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF THE CONTRACTOR SHALL APPLY TO THE DISTRICT FOR FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
- ANY CONVEYANCE OF THIS PROJECT, OR PORTION THEREOF, PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS. THE DISTRICT MUST BE NOTIFIED IN WRITING OF ANY CHANGE IN OWNERSHIP.
- A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS. THE PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5" - 4" INCHES IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. THE PAD SHALL BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. IF A CONSTRUCTION ACCESS IS TO BE USED AS AN EXIT ONTO A MAJOR HIGHWAY, A THIRTY (30) PAVED TRANSITION AREA SHALL BE INSTALLED. CONSTRUCTION ACCESS ONTO INDIVIDUAL LOTS MUST BE STABILIZED WITH 2.5" CRUSHED STONE OR SUBBASE.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
- ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED AS REQUIRED BEFORE THE DISCHARGE POINT BECOMES OPERATION.
- NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
- ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE CONSTRUCTION SITE.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER, STABILIZE TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.
- ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH SEDIMENT BARRIER.
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- ALL CRITICAL AREAS SUBJECT TO SOIL EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 92 POUNDS PER 1000 SQUARE FEET ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER)
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION. IF THE SEASON PROHIBITS TEMPORARY

- SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR THE EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- MULCHING IS REQUIRED ON ALL SEEDED AREAS TO ENSURE AGAINST SOIL EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
 - IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE SOIL CONSERVATION DISTRICT.
 - ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMEN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
 - ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE FILTER FABRIC. (SEE DETAIL) THE SEDIMENT FILTER MUST BE CAPABLE OF FILTERING THE SOIL PH TO APPROXIMATELY 6.5. IN LIEU OF SOIL TEST, SEE LIME RATE GUIDE IN SEEDBED PREPARATION.
 - FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF DEWATERING ACTIVITIES. THE WATER QUALITY BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
 - DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
 - METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A PH OF 4 OR LESS.

WORK HOURS AND NOISE CONTROL

- CONSTRUCTION HOURS
 - MONDAY THRU FRIDAY: 7:00AM-6:00PM
 - SATURDAY: 8:00AM-4:30PM
 - SUNDAY: NO WORK TO BE PERFORMED.
 - THE HOURS STATED SHALL BE ADHERED TO UNLESS DUE TO WEATHER AND OR SCHEDULE CHANGES. THE MUNICIPALITY SHALL BE NOTIFIED OF ALL TIME CHANGES.
- NOISE CONTROL EQUIPMENT TO BE UTILIZED SHALL BE STANDARD EARTH MOVING EQUIPMENT, CRANES, MIXERS, ETC. WHICH MEET STANDARDS ESTABLISHED BY STATE AND FEDERAL LAWS REGARDING THE AMOUNT OF NOISE PRODUCED.

DETAILED CONSTRUCTION SEQUENCE

- INSTALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES.
 - PLACE STABILIZED CONSTRUCTION ENTRANCE WHERE INDICATED ON PLAN.
 - PLACE SILT FENCE AND INLET PROTECTION FOR EXISTING INLETS WHERE INDICATED ON PLAN.
- CLEAR AND GRUB CONSTRUCTION AREA.
 - PLACE TOPSOIL STOCKPILE AREAS WHERE INDICATED ON PLANS.
 - EXCAVATE BASINS AND INSTALL FILTER FABRIC IN BOTTOM.
 - STABILIZE PROPOSED BASIN W/SEED AND STRAW MATTING OR EROSION CONTROL MATTING.
- ROUGH GRADE PAVEMENT AREA BED AND BUILDING PADS
- INSTALL UNDERGROUND UTILITIES AND COMMENCE BUILDING CONSTRUCTION
- INSTALL TEMPORARY INLET PROTECTION.
- CONSTRUCT CURBING AND SUBBASE FOR PAVEMENT AREAS.
- CONSTRUCT BASE PAVEMENT COURSE.
- ESTABLISH FINAL GRADING, PERMANENT VEGETATIVE COVER AND FINAL BASIN CLEAN-UP. ADD K5 SAND MATERIAL TO BASIN BOTTOM.

SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.
- LANDSCAPE AS NECESSARY.
- CONSTRUCT FINAL PAVEMENT COURSE.
- REMOVE SOIL CONSERVATION MEASURES WHEN CONSTRUCTION IS COMPLETED AND/OR SITE IS STABILIZED.
- REQUEST REPORT OF COMPLIANCE FROM THE SOIL CONSERVATION DISTRICT.

TEMPORARY AND PERMANENT STABILIZATION

STABILIZATION COVER SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS:

- SITE PREPARATION
 - PREPARE SUBGRADE AS NEEDED AND FEASIBLE TO ALLOW USE OF CONVENTIONAL EQUIPMENT FOR TOPSOILING, SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - INSTALL NEEDED SOIL EROSION CONTROL PRACTICES OR MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
 - THE SUBGRADE SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6 INCHES TO ENHANCE THE ESTABLISHMENT OF VEGETATIVE COVER. IF TESTING INDICATES EXCESSIVE SUBGRADE COMPACTION, THE SUBGRADE SHALL BE DE-COMPACTED TO A DEPTH OF 6 INCHES PRIOR TO THE APPLICATION OF TOPSOIL. THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6" TO 12" WHERE THERE HAS BEEN EXCESSIVE SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY IN AREAS WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
 - THE SUBGRADE SHALL BE TESTED TO DETERMINE WHETHER COMPACTION EXCEEDS THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS. THE TEST SHALL BE PERFORMED AT ONE-HALF ACRE INTERVALS FOR SITES ONE ACRE OR MORE. FOR SITES LESS THAN ONE ACRE, AT LEAST TWO TESTS ARE REQUIRED REGARDLESS OF THE SIZE. CONTIGUOUS AREAS OF 500 SQUARE FEET OR LESS ARE EXEMPT FROM TESTING OR REMEDIATION. COMPACTION TESTING METHODS SHALL INCLUDE (1) PROBING WIRE TEST, (2) HAND-HELD PENETROMETER TEST, (3) TUBE BULK DENSITY TEST, OR (4) NUCLEAR DENSITY TEST. THE MAXIMUM THRESHOLD FOR THE PROBING WIRE TEST IS DETERMINED IF A 15 GAGE WIRE BENDS WHEN INSERTED INTO THE SUBGRADE TO A DEPTH OF 6 INCHES OR FOR THE PENETROMETER TEST IF THE PRESSURE AT A DEPTH OF 6 INCHES IS 300 PSI OR MORE. IF COMPACTION EXCEEDS THE MAXIMUM THRESHOLD, THE CONTRACTOR SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA, OR (2) PERFORM ADDITIONAL MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

B. STRIPPING AND STOCKPILING

- FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
- STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
- WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TEST TO BRING THE SOIL PH TO APPROXIMATELY 6.5. IN LIEU OF SOIL TEST, SEE LIME RATE GUIDE IN SEEDBED PREPARATION.
- A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
- STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
- STOCKPILES OF TOPSOIL SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS FOR PERMANENT OR TEMPORARY STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.
- TOPSOILING - THE CONTRACTOR SHALL PREPARE AREAS TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER BY APPLYING TOPSOIL TO A UNIFORM DEPTH OF 6 INCHES. 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 BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICcate SEEDLINGS AND ADVERSELY IMPACT GROWTH). TOPSOIL HAULED IN FROM OFFSITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. 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. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.

- SEEDBED PREPARATION - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, THE CONTRACTOR MAY APPLY PULVERIZED DOLOMITIC LIMESTONE AT THE RATE OF 90 POUNDS PER 1000 SQUARE FEET. APPLY 10-20-10 FERTILIZER OR EQUIVALENT AT THE RATE OF 11 POUNDS PER 1000 SQUARE FEET. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOPDRESSING. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS / ACRE	
CLAY, CLAY LOAM & HIGH ORGANIC SOIL	4	
SANDY LOAM, LOAM & SILT LOAM	3	
LOAMY SAND, SAND	2	

THE LIME AND FERTILIZER SHALL THEN BE "WORKED" INTO THE SOIL TO A DEPTH OF 4" WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT.

- TEMPORARY VEGETATION SEEDING - ESTABLISH TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO SIX MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS. SEEDING SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED AT THE RATE OF 1 POUND PER 1000 SQUARE FEET DURING COOL SEASON OR WEEPING LOVEGRASS AT 5 LBS. PER ACRE DURING WARM SEASON PLANTING.
- PERMANENT VEGETATION SEEDING - IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AT THE SITE, THE CONTRACTOR SHALL STABILIZE WITH PERMANENT VEGETATIVE COVER, ALL EXPOSED AND DISTURBED SOILS.

#15 MIXTURE (LAWN)	LBS/ACRE	LBS/1000 S.F.
HARD FESCUE	130	3.00
CHEWING FESCUE	45	1.00
STRONG CREEPING RED FESCUE	45	1.00
PERENNIAL RYEGRASS	10	0.25
#11 MIXTURE (SWALE)	LBS/ACRE	LBS/1000 S.F.
KENTUCKY BLUEGRASS	45	1.00
TURF-TYPE TALL FESCUE	22	0.50

IF HYDROSEEDING IS USED ALL SEEDING RATES SHALL BE INCREASED BY 25%. IF SODDING IS USED SEE SOD SPECIFICATIONS.

- SEEDING DATES - SEEDING DATES FOR VEGETATION SHALL OCCUR BETWEEN MARCH 1 AND APRIL 30 (OPTIMAL PLANTING PERIOD) OR BETWEEN AUGUST 15 AND NOVEMBER 15. IF SEED IS NOT PLANTED WITHIN THESE DATES, THE CONTRACTOR SHALL STABILIZE WITH MULCH AS SPECIFIED ABOVE.
- MULCHING - THE CONTRACTOR SHALL MULCH ALL NEWLY SEEDDED AREAS WITH UNROTTED SMALL GRAIN STRAW OR MAY FREE OF SEEDS AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET. IT SHALL BE ANCHORED THROUGH THE USE OF THE PEG AND TWINE METHOD. THE PEG AND TWINE METHOD OF MULCH ANCHORING SHALL CONSIST OF DRIVING 8-10 INCH WOODEN PEGS TO WITHIN 2-3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- SODDING
 - CULTIVATED SOD IS PREFERRED OVER NATIVE SOD. SPECIFY "CERTIFIED SOD", OR OTHER HIGH QUALITY CULTIVATED SOD. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH). SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN OR UNEVEN ENDS WILL NOT BE ACCEPTED. FOR DROUGHTY SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD. ONLY MOIST, FRESH, UNWEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
 - REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
 - INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
 - SOD PLACEMENT:
 - SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE. STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS

WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

- PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVOKE EROSION.
- ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
- ON SLOPES GREATER THAN 3:1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8" TO 10" LONG BY 3/4" WIDE).

SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER- CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.

- IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.
- TOPDRESSING - IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOPDRESSING IS NOT MANDATORY.

FALL INSTALLATION OF SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-20-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.

MANAGEMENT OF HIGH ACID-PRODUCING SOILS

HIGH ACID-PRODUCING SOILS ARE SOILS WITH A PH OF 4.0 OR LESS OR CONTAIN IRON SULFIDE. HIGH ACID-PRODUCING SOILS MAY BE PRESENT IN UNDISTURBED SOILS AT VARYING DEPTHS, INCLUDING NEAR THE SOIL SURFACE TO EXCAVATIONS OR DEEP DISTURBANCES. ITS PRESENCE ON A SITE MAY BE SIGNIFICANT OR LIMITED IN THE SOIL PROFILE. HIGH ACID-PRODUCING SOILS ARE COMMONLY BLACK, DARK BROWN, GRAY OR GREENISH WITH SILVERY PYRITE OR MARCASITE NUGGETS OR FLAKES. ALTERNATIVELY, SANDY SOILS OR REDDISH, YELLOWISH OR LIGHT TO MEDIUM BROWN SOIL MATERIALS ARE USUALLY FREE OF HIGH ACID-PRODUCING DEPOSITS.

TO PREVENT OR LIMIT EXPOSURE AREA, TIME, AND SPREADING BY EQUIPMENT OR RAINFALL ON- AND OFF-SITE AND TO MINIMIZE EROSION, SEDIMENTATION AND ACID LEACHATE-RELATED DAMAGES, HIGH ACID-PRODUCING SOIL MAY BE EXPOSED DURING EXCAVATION AND LAND GRADING ACTIVITIES, OR MAY BE INTRODUCED IN DREDGED SEDIMENT, SOILS AND SEDIMENT CONTAINING IRON SULFIDE, CHARACTERIZED BY PYRITE OR MARCASITE NUGGETS OR GREENISH, ARE CHEMICALLY OXIDIZED WHEN EXPOSED TO AIR, PRODUCING SULFURIC ACID AND RESULT IN SOIL PH LEVELS FALLING TO PH 4.0 AND LOWER. MOST VEGETATION IS INCAPABLE OF GROWTH AT THIS PH LEVEL. ADJACENT LAND AND RECEIVING WATERS WILL BE NEGATIVELY IMPACTED BY THE ACID LEACHATE. CALCIUM-CONTAINING MATERIALS SUCH AS SIDEWALKS, CULVERTS AND OTHER STRUCTURES AND SOME METALLIC MATERIALS ARE ALSO SUSCEPTIBLE TO DEGRADATION. AGRICULTURAL LIMESTONE MATERIALS APPLIED AT RATES OF 8 TONS PER ACRE HAVE RESULTED IN ONLY A TEMPORARY BUFFERING EFFECT, AND "LIMING-ONLY" IS THEREFORE NOT CONSIDERED AN ACCEPTABLE MITIGATION PRACTICE.

METHODS AND MATERIALS OF MANAGING HIGH ACID-PRODUCING SOILS

- LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID-PRODUCING SOILS ARE ENCOUNTERED.
- TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID-PRODUCING SOILS.
- STOCKPILES OF HIGH ACID-PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
- TEMPORARILY STOCKPILED HIGH ACID-PRODUCING SOIL MATERIAL TO BE STORED MORE THAN 48 HOURS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION. THE STOCKPILE SILT FENCE SHALL BE INSTALLED AT THE TOE OF THE SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID-PRODUCING SOIL.
- HIGH ACID-PRODUCING SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE (INCLUDING BORROW FROM CUTS OR DREDGED SEDIMENT) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS PER ACRE (OR 450 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A PH OF 5.0 OR MORE EXCEPT AS FOLLOWS:
 - AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A PH OF 5 OR MORE.
 - DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES, AND OTHERS, TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
- EQUIPMENT USED FOR MOVEMENT OF HIGH ACID-PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID-PRODUCING SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES, AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.
- NON-VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SEDIMENT BARRIER, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID-PRODUCING SOILS FROM, AROUND, OR OFF THE SITE.
- FOLLOWING BURIAL OR REMOVAL OF HIGH ACID-PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND TOPSOILING), MONITORING MUST CONTINUE FOR A MINIMUM OF 6 MONTHS TO ENSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID-PRODUCING SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST, THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.

DUST CONTROL:

DUST CONTROL SHALL BE ACCOMPLISHED BY THE METHODS DESCRIBED BELOW.

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/AC
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON	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, P. 26-1		
POLYACRYLAMIDE (PAM) - DRY SPREAD			
ACQUILATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

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 PLACED 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 SOIL 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 STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS BASED ON RECORD DRAWINGS, FIELD SURVEY AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER HAS NO CONTROL OVER THE CONSTRUCTION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

1. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL THE DISTRICT FOR CONSTRUCTION APPEARS IN THE TITLED AREA.

2. **811** Know what's Below! Call before you dig.

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DAVENPORT VILLAGE EXPANSION

BLOCK 8.01, LOT 43
HANESPORT TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

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DATE	ISSUE NO.	BY	DATE	DATE	DATE
3/20/2022	2	FINAL APPROVAL SUBMISSION	JTS		
8/13/2019	1	INITIAL RELEASE	JTS		

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SCALE AS SHOWN
SHEET 11 OF 11

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