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GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY PREPARED BY VIRGINIA RESOURCE MAPPING, INC. DATED JANUARY 2005, AND WAS SUPPLEMENTED BY FIELD RUN TOPOGRAPHIC SURVEY PREPARED BY PATTON HARRIS RUST AND ASSOCIATES IN 2005.
- THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES DATED FEBRUARY 13, 2004.
- THE COORDINATES SHOWN HEREON ARE IN MARYLAND COORDINATE SYSTEM NAD 83/91 BASED ON THE HOWARD COUNTY GEODETIC CONTROL. HOWARD COUNTY MONUMENT NOS. 22AA AND 22BB WERE USED FOR THIS PROJECT.
- WATER IS PRIVATE.
- SEWER IS PRIVATE.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THE 100-YEAR FLOODPLAIN SHOWN FOR THIS PROJECT IS BASED ON A FLOODPLAIN STUDY PREPARED BY PATTON HARRIS RUST AND ASSOCIATES, DATED NOVEMBER 28, 2005, AND APPROVED BY HOWARD COUNTY ON AUGUST 17, 2006.
- THE WETLANDS SHOWN FOR THIS PROJECT ARE BASED ON A STUDY PREPARED BY MCCARTHY AND ASSOCIATES, DATED MARCH 2005, AND UPDATED IN JULY OF 2013.
- A NOISE STUDY FOR THIS PROJECT IS NOT REQUIRED.
- SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED NAVD88.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS. LIGHT TRESPASS ONTO A PROPERTY IN THE RC ZONING DISTRICT IS LIMITED TO 0.1 FOOT CANDLES.
- THERE ARE EXISTING PERMANENT STRUCTURES ONSITE (HOUSE AND GARAGE). OTHER THAN AN EXISTING SHED, ALL EXISTING STRUCTURES ARE TO REMAIN.
- BASED ON AVAILABLE COUNTY MAPS AND RECORDS, THERE ARE NO HISTORIC STRUCTURES OR KNOWN CEMETERIES LOCATED ON THE SUBJECT PROPERTY.
- FIFTY SEVEN (57) SPECIMEN TREES EXIST ON SITE. SEE SPECIMEN TREE CHART IN THE PLAN SHEET. NO SPECIMEN TREES WILL BE REMOVED WITH THIS PROJECT.
- APPLICABLE DPZ FILE REFERENCES: BA-80-39E, BA-390-C, BA-13-012C (APPROVED 6/24/13), SP-05-19, F-08-24, WP-13-018, ECP-13-057, & WP-14-020.
- A TRAFFIC STUDY FOR THIS PROJECT IS NOT REQUIRED.
- CONDITIONAL USE NOTE: THE CONDITIONAL USE, BA-13-013C APPROVED ON 6/24/13, SHALL BE CONDUCTED IN CONFORMANCE WITH, SHALL APPLY ONLY TO THE CONDITIONAL USE PLAN AND PETITION SUBMITTED ON MARCH 27, 2013 AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.
- WP-13-018, APPROVED ON 8/28/12, IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - WITHIN 1 YEAR OF WAIVER APPROVAL (ON OR BEFORE AUGUST 28, 2013), FOREST CONSERVATION OF PHASE 1 OF THE PROJECT WILL BE ADDRESSED WITH THE SUBMISSION OF THE SITE DEVELOPMENT PLAN FOR PHASE 2 OF THE PROJECT WHICH WILL ADDRESS FOREST CONSERVATION REQUIREMENTS FOR BOTH PHASE 1 AND 2; OR WITHIN 1 YEAR OF WAIVER APPROVAL (ON OR BEFORE AUGUST 28, 2013) A FEE-IN-LIEU PAYMENT OF \$78,212.00 (PAYABLE TO THE DIRECTOR OF FINANCE OF HOWARD COUNTY) MUST BE MADE TO ADDRESS THE FOREST CONSERVATION OBLIGATION FOR PHASE 1 OF DEVELOPMENT CONSISTING OF A LIMIT OF DISTURBANCE OF 9.46 ACRES (IF A SITE DEVELOPMENT PLAN FOR PHASE 2 IS NOT SUBMITTED WITHIN 1 YEAR).
 - THE LOD FOR PHASE 1 OF THE PROJECT MAY NOT EXCEED 9.46 ACRES AS INDICATED ON THE WAIVER EXHIBIT.
- MINIMUM LANDSCAPE BUFFER (TYPE "C") SHALL BE PROVIDED ALONG THE ENTIRE

- EASTERN PORTION OF THE SOLAR ARRAY, ALONG S00°31'59"W. THIS WOULD EQUATE TO A BUFFER 953' IN LENGTH (TAKING INTO ACCOUNT PROPOSED CREDIT AREAS) FOR A TOTAL OF 24 SHADE TREES AND 48 EVERGREENS FOR A TOTAL SURETY OF \$14,400.00.
- A LANDSCAPE SURETY OF \$14,400.00 WILL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT FOR THIS PROJECT.
- A CORRECTED WAIVER EXHIBIT, (INCLUDING AN AMENDED AND SIGNED [BY THE DEVELOPER/BUILDER] LANDSCAPE PLAN WHICH REFLECTS CHANGES TO BUFFER TYPE ["C" BUFFER-ENTIRE LENGTH OF PERIMETER], PLANT LISTS, SURETY NOTES) AND ADDRESSING ALL ATTACHED COMMENTS FROM THE DIVISION OF LAND DEVELOPMENT SHALL BE SUBMITTED TO PLANNING AND ZONING WITHIN 2 WEEKS OF WAIVER APPROVAL (ON OR BEFORE SEPTEMBER 11, 2012).
- IN ACCORDANCE WITH THE ATTACHED COMMENTS FROM THE DEVELOPMENT ENGINEERING DIVISION DATED AUGUST 23, 2012, THE DEVELOPER AGREEMENTS FOR THE CONSTRUCTION AND MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITY SHALL BE EXECUTED BY THE DEVELOPER AND RETURNED TO THE COUNTY (REAL ESTATE SERVICES DIVISION-DPW) TO BE EXECUTED SIMULTANEOUSLY WITH THE SIGNING OF THE SUPPLEMENTAL PLAN FOR THE WAIVER PETITION, WITHIN 45 DAYS OF WAIVER APPROVAL (ON OR BEFORE OCTOBER 12, 2012).
- THE SIGNATURE APPROVED SUPPLEMENTAL PLAN (WAIVER PLAN EXHIBIT) SHALL SERVE AS THE SUBSTITUTION FOR A SITE DEVELOPMENT PLAN FOR DEVELOPMENT OF PHASE 1 FOR THIS PROJECT. ALL IMPROVEMENTS SHOWN ON THE SIGNED PLAN EXHIBIT MUST BE CONSTRUCTED PER THE SIGNATURE APPROVED SUPPLEMENTAL PLAN EXHIBIT.
- THE WAIVER PETITION SHALL APPLY ONLY TO THE USES AND STRUCTURES DESCRIBED AND AS SHOWN ON THE SIGNATURE APPROVED SUPPLEMENTAL PLAN EXHIBIT AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES OR ADDITIONS TO THIS PROPERTY.
- COMPLIANCE WITH ALL APPLICABLE COUNTY AND STATE REGULATIONS INCLUDING ALL NECESSARY PERMITS FROM THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS (DILP) PRIOR TO INITIATING ANY ON-SITE DEVELOPMENT IS REQUIRED. THE SIGNATURE APPROVED SUPPLEMENTAL PLAN EXHIBIT SHALL BE SUBMITTED FOR ANY PERMITS REQUIRED FROM DILP.
- WP-14-020, APPROVED ON 9/11/13, IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - WITHIN 60 DAYS OF WAIVER APPROVAL (ON OR BEFORE NOVEMBER 10, 2013), FOREST CONSERVATION OF PHASE 1 OF THE PROJECT WILL BE ADDRESSED WITH THE SUBMISSION OF THE SITE DEVELOPMENT PLAN (SDP-14-014) FOR PHASE 11 OF THE PROJECT WHICH WILL ADDRESS FOREST CONSERVATION REQUIREMENTS FOR BOTH PHASE 1 AND II; OR WITHIN 60 DAYS OF WAIVER APPROVAL ON OR BEFORE NOVEMBER 10, 2013) A FEE-IN-LIEU PAYMENT OF \$78,212.00 (PAYABLE TO THE DIRECTOR OF FINANCE OF HOWARD COUNTY) MUST BE MADE TO ADDRESS THE FOREST CONSERVATION OBLIGATION FOR PHASE I OF DEVELOPMENT CONSISTING OF A LIMIT OF DISTURBANCE OF 9.46 ACRES.
- WP-15-017, APPROVED ON 8/21/14, IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE DEVELOPER MUST RESUBMIT SITE DEVELOPMENT PLAN ORIGINALS IN ASSOCIATION WITH SDP-14-014 FOR SIGNATURE AND WITHIN 180 DAYS OF AUGUST 19, 2014 (ON OR BEFORE FEBRUARY 15, 2015).
 - SUBMIT SITE DEVELOPMENT MYLARS AND PAY ANY APPLICABLE FEE CHARGES THAT MAY HAVE OCCURRED SINCE THE ORIGINAL APPROVAL DATE OF FEBRUARY 20, 2014.
 - NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
 - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$49,500.00 FOR 50 SHADE TREES AND 230 EVERGREEN TREES.
 - THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY PRESERVING 8.86 ACRES OF OF ON-SITE RETENTION (6.79 ACRES CREDITED AND 2.07 ACRES NON-CREDITED) AND BY EXCEEDING THE BREAK-EVEN POINT OF 6.44 ACRES. NO FOREST CONSERVATION SURETY IS REQUIRED. ALL NON-CREDITED FOREST CONSERVATION EASEMENT AREAS ARE LOCATED WITHIN THE FLOODPLAIN.
 - NO STEEP SLOPES, STREAMS, WETLANDS OR THEIR BUFFERS WILL BE DISTURBED BY THIS PROJECT.
 - STORMWATER MANAGEMENT FOR THIS PROJECT IS PROVIDED BY NON-ROOFTOP DISCONNECT CREDITS AND SHEETFLOW TO CONSERVATION AREAS. STORMWATER MANAGEMENT WILL BE PRIVATELY OWNED AND MAINTAINED.

SITE DEVELOPMENT PLAN

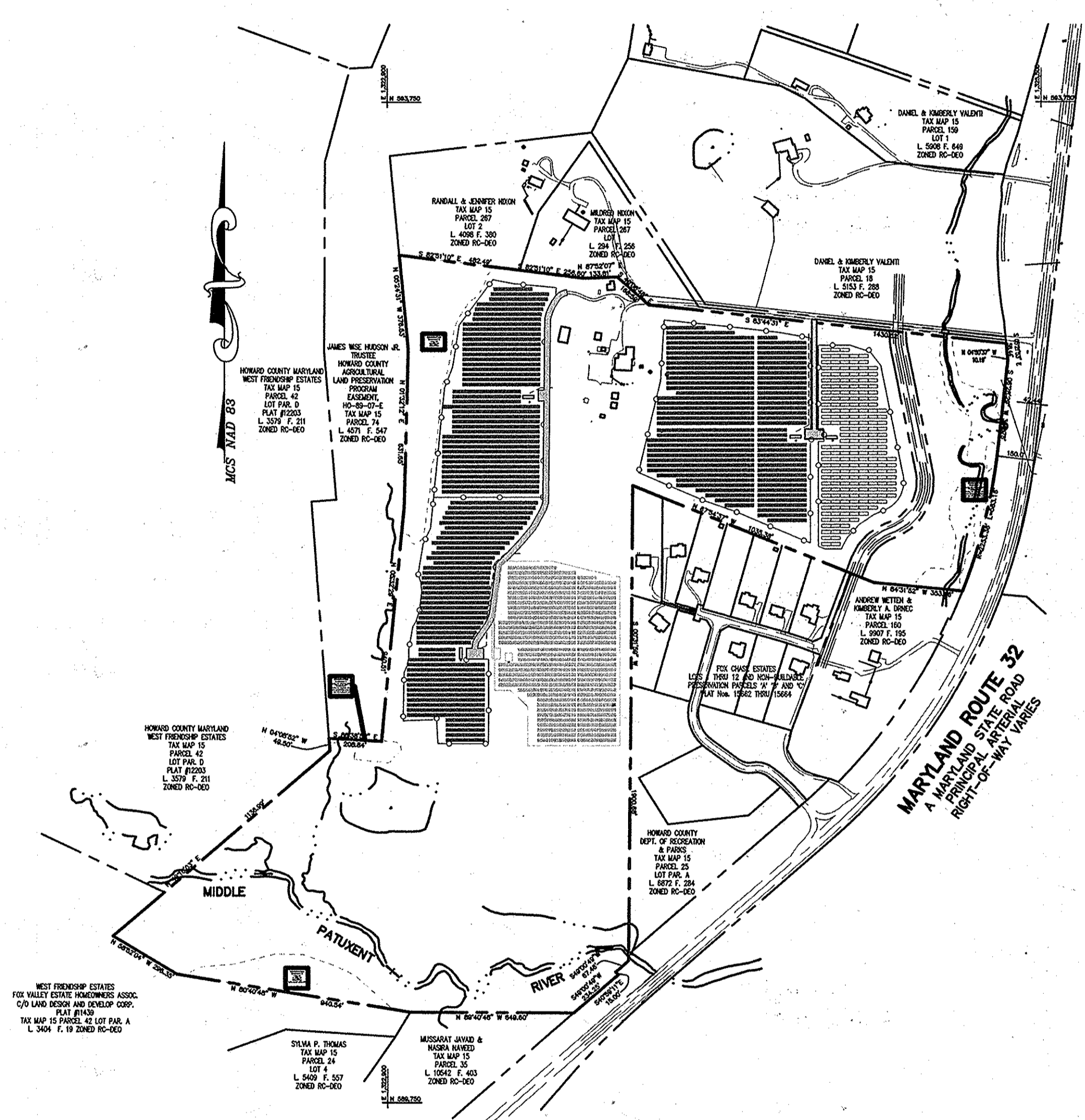
NIXON SOLAR PHASE II

2800 NIXON'S FARM LANE

PARCEL 90

3RD ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

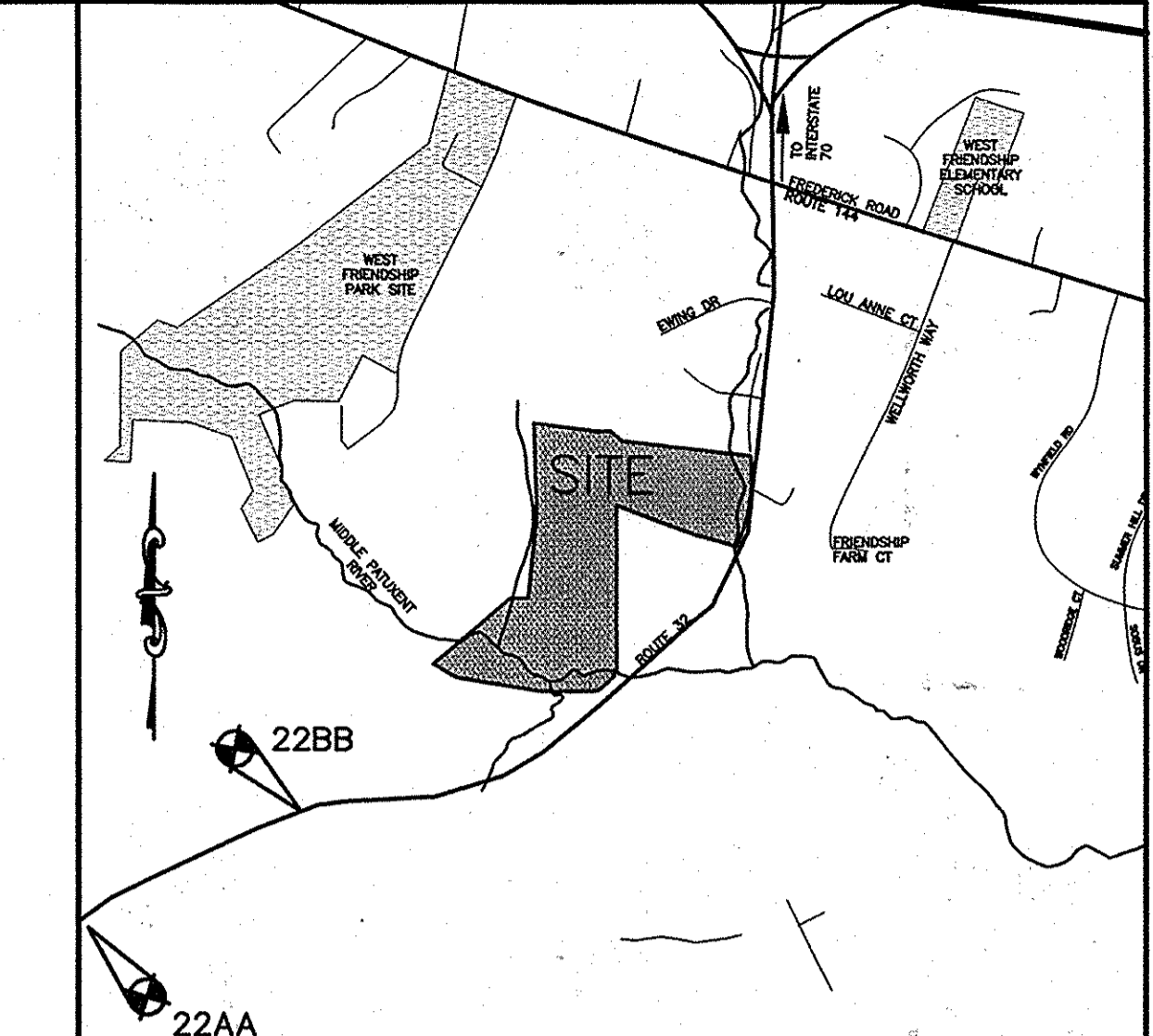


LOCATION PLAN
SCALE: 1" = 40'

BENCHMARKS

HOWARD COUNTY SURVEY CONTROL: 22BB
ELEVATION 538.978
N 588,791.578 E 1,320,292.220
LOCATION IS 24' FROM FACE OF CURB AT THE INTERSECTION OF MD RT. 32 AND RIVER VALLEY CHASE.

HOWARD COUNTY SURVEY CONTROL: 22AA
ELEVATION 569.713
N 587,502.739 E 1,317,897.957
LOCATION IS 4' FROM EDGE OF MD RT. 32 PAVING, 0.45 MILES EAST OF PFEFFERKORN ROAD AND 0.25 MILES WEST OF IVORY ROAD.



VICINITY MAP

SCALE: 1"=2000'
COPYRIGHT ADC THE MAP PEOPLE
ADC MAP 18 GRIDS 4B, 4C, 5A, & 5B,
PERMITTED USE NO. 3662

SITE ANALYSIS DATA SHEET

AREA OF SITE (PARCEL 90):	109.82 ACRES (4,783,641.67 SF)
LIMIT OF WORK:	33.65 ACRES (1,465,654 SF)
LIMIT OF DISTURBANCE:	5.84 ACRES (254,227 SF)
EXISTING ZONING:	RC-DEO
EXISTING SITE USE:	COUNTRY CLUB (CASE # 390-C, BA 80-39)
PROPOSED SITE USE:	SOLAR PANEL FARM/COUNTRY CLUB
AREA OF WETLANDS AND WETLAND BUFFERS:	24.30 AC
AREA OF FLOODPLAIN AND FLOODPLAIN BUFFERS:	31.01 AC
AREA OF FOREST:	26.47 AC
AREA OF STEEP SLOPES 15% OR GREATER:	±0.64 AC
AREA OF ERODIBLE SOILS:	±0.00 AC
GREEN AREA:	EXISTING: ±108.56 ACRES PROPOSED: ±107.88 ACRES
IMPERVIOUS AREA:	EXISTING: ±1.26 ACRES (±54,886 SF) (INCLUDES PHASE I DEVELOPMENT) PROPOSED: ±0.68 ACRES (±29,535 SF)
SETBACKS:	REQUIRED: FRONT: 50' REAR: 50' (SET PER BA-13-012C) SIDE: 50' (SET PER BA-13-012C) PROVIDED: FRONT: 50' REAR: 50' (SET PER BA-13-012C) SIDE: 50' (SET PER BA-13-012C) FROM PUBLIC STREET RIGHT-OF-WAY: 50'
PARCEL SIZE:	REQUIRED: 10 ACRES PROVIDED: ±109.81 ACRES
HEIGHT OF ARRAYS/EQUIPMENT:	MAXIMUM ALLOWED: 20' PROVIDED: 12'

ESDv SUMMARY

TREATMENT	ESDv REQUIRED	ESDv PROVIDED
DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)	-	6,313 CF
SHEETFLOW TO CONSERVATION AREA (N-3)	-	1,664 CF
TOTAL	7,784 CF	7,977 CF

ADDRESS CHART

PARCEL NUMBER	STREET ADDRESS
90	2800 NIXON'S FARM LANE - COUNTRY CLUB
90	2820 NIXON'S FARM LANE - SOLAR FARM

SUBDIVISION NAME	SECT./AREA	PARCEL
WEST FRIENDSHIP	-	90
PLAT NO. OR L/F	GRID #	ZONING
L 12565 F. 273	16, 17, & 22	RC-DEO
TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
15	3	6030.00

PROJECT NARRATIVE

WITH THIS PLAN THE PROPERTY OWNER AND ENERGY DEVELOPER PROPOSE TO DEVELOP A COMMERCIAL SOLAR FACILITY IN ACCORDANCE WITH SECTION 131.N.52.

- THE PROPOSED FACILITY IS LOCATED WITHIN THE RC ZONE, BUT IS NOT LOCATED ON LAND THAT IS UNDER AN AGRICULTURAL PRESERVATION EASEMENT.
- THE SOLAR FACILITY PROPOSED WITH THIS PLAN IS 33.65 AC IN SIZE, AND IS LOCATED ON A PROPERTY THAT IS 109.82 ACRES IN SIZE.
- THE PROPOSED FACILITY IS SETBACK AT LEAST 50' FROM ALL PROPERTY LINES.
- NO STRUCTURES PART OF THE FACILITY ARE MORE THAN 20' IN HEIGHT.
- THE LANDSCAPE BUFFERS THAT ARE PART OF THIS PLAN ARE AS APPROVED BY THE HEARING EXAMINER AS PART OF THE CONDITIONAL USE PLAN.
- THE PROPOSED SECURITY FENCING IS LOCATED BETWEEN THE LANDSCAPE BUFFER AND THE SOLAR FACILITY.
- THE FACILITY SHALL BE REMOVED WITHIN ONE YEAR OF THE USE ENDING.
- THE FACILITY SHALL BE CONSTRUCTED SO AS TO MINIMIZE GLARE AND REFLECTION ONTO ADJACENT PROPERTIES AND ROADWAYS.

APPROVED : DEPARTMENT OF PLANNING AND ZONING

[Signature] 10-3-14
CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE

[Signature] 10-07-14
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 10/1/14
DIRECTOR DATE

DATE	NO.	REVISION

DEVELOPER

THE BITH GROUP
ATTN: RICARDO BETTS
113 WEST MONUMENT STREET
BALTIMORE, MD 21201
T: 410-962-1188

OWNER

2800 NIXON'S FARM LANE, LLC
ATTN: GEORGE BROWN
17500 FREDERICK ROAD
MT AIRY, MD 21771
T: 410-461-7200

PROJECT

NIXON SOLAR PHASE II (SOLAR FARM)

AREA

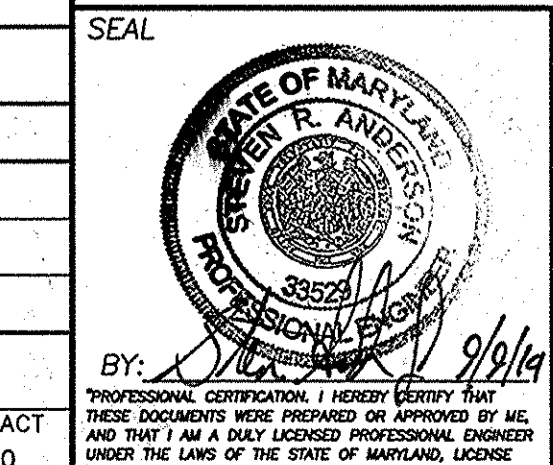
TAX MAP 15, PARCEL 90 ZONED RC-DEO
GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

TITLE SHEET

Pennoni Associates Inc.
Consulting Engineers
8818 Centre Park Drive
Suite 200
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY : JSN
DRAWN BY : JSN
PROJECT NO : B1EN1301
DATE : SEPTEMBER 8, 2014
SCALE : AS SHOWN
DRAWING NO. 1 OF 21





LEGEND

EXISTING 2' CONTOUR	----- 248
EXISTING 10' CONTOUR	----- 250
EX. PROPERTY LINE AND RIGHT OF WAY	-----
EXISTING WELL	●
EXISTING SEPTIC FIELD	▨
EX. TREELINE	~~~~~
EX. SOILS	BaA
100 YEAR FEMA FLOODPLAIN	FP
100 YEAR FEMA FLOODPLAIN EASEMENT	---
100' STREAM BUFFER	SB
EX. STREAM	---
EX. WETLANDS	▨
EX. WETLAND BUFFER	WB
PROPOSED 8' HIGH CHAIN LINK FENCE	---o---
PROPOSED LIGHT	*
BUILDING RESTRICTION LINE	-----
EX. TREE	⊛
EX. MARYLAND STATE HIGHWAY ADMINISTRATION WETLAND MITIGATION AREA	▨

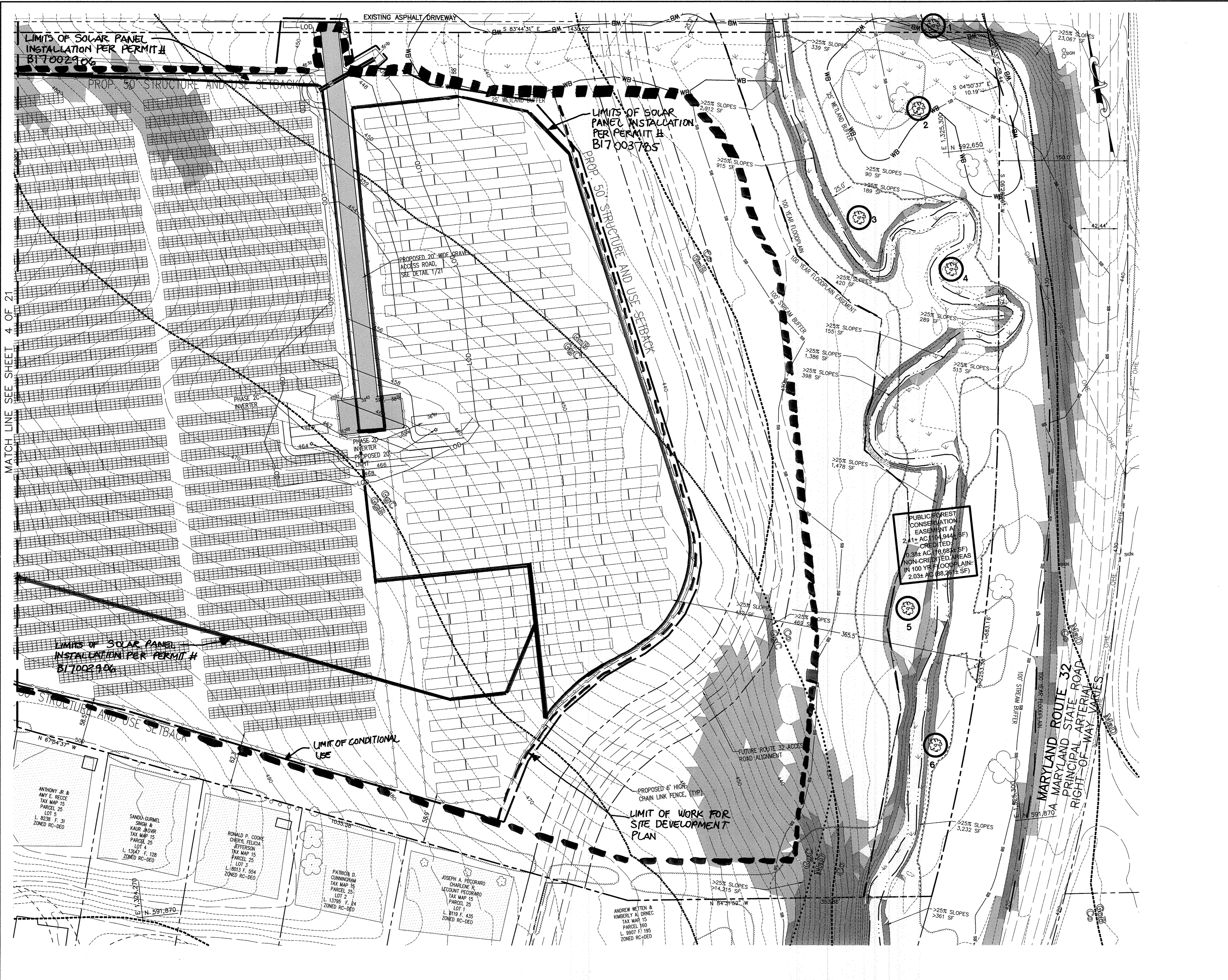
MAINTENANCE NARRATIVE

MAINTENANCE OF THE EQUIPMENT AT THIS FACILITY WILL TYPICALLY OCCUR ON A SEMI-ANNUAL BASIS. MAINTENANCE IS TYPICALLY LIMITED TO THE ELECTRICAL EQUIPMENT. LITTLE TO NO MAINTENANCE OF THE PANELS IS REQUIRED, OTHER THAN AN OCCASIONAL WASHING. MAINTENANCE OF THE FACILITY GROUNDS TO MOW THE GRASS WILL OCCUR THROUGHOUT THE GROWING SEASON. MAINTENANCE VISITS TO THE SITE ARE TYPICALLY HANDLED WITH A PICKUP TRUCK. BECAUSE MAINTENANCE IS TYPICALLY HANDLED BY A SINGLE TRUCK, NO PARKING AREAS ARE REQUIRED.

ACCESS NARRATIVE

ACCESS TO THE SITE WILL BE FROM THE EXISTING DRIVEWAY (NIXON'S FARM LANE) THAT SERVES 2800 NIXON'S FARM LANE. NIXON'S FARM LANE HAS DIRECT ACCESS TO MD ROUTE 33. ONCE AT THE FACILITY, ACCESS TO EACH SOLAR PANEL AREA WILL BE VIA THE PROPOSED GRAVEL DRIVEWAYS AND LOCKED GATES.

APPROVED : DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	10-3-14 DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	10-07-14 DATE
<i>[Signature]</i> DIRECTOR	10/14/14 DATE
DATE NO.	REVISION
DEVELOPER THE BITH GROUP ATTN: RICARDO BETTS 113 WEST MONUMENT STREET BALTIMORE, MD 21201 T: 410-962-1188	
OWNER 2800 NIXON'S FARM LANE, LLC ATTN: GEORGE BROWN 17500 FREDERICK ROAD MT AIRY, MD 21771 T: 410-461-7200	
PROJECT NIXON SOLAR PHASE II (SOLAR FARM)	
AREA TAX MAP 15, PARCEL 90 ZONED RC-DEO GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE OVERALL PLAN	
Pennoni Associates Inc. Consulting Engineers 8818 Centre Park Drive Suite 200 Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
	DESIGNED BY : JSN
	DRAWN BY: JSN
	PROJECT NO : BIEN1301
	DATE : SEPTEMBER 8, 2014
	SCALE : 1"=200'
DRAWING NO. 2 OF 21	



MATCH LINE SEE SHEET 4 OF 21

LEGEND

- EXISTING 2' CONTOUR 248
- EXISTING 10' CONTOUR 250
- EX. PROPERTY LINE AND RIGHT OF WAY
- EXISTING WELL
- EXISTING SEPTIC FIELD
- EX. TREELINE
- EX. SOILS Baa
- 100 YEAR FEMA FLOODPLAIN
- 100 YEAR FEMA FLOODPLAIN EASEMENT
- 100' STREAM BUFFER
- EX. STREAM
- EX. WETLANDS
- 25' WETLAND BUFFER
- PROPOSED 6' HIGH CHAIN LINK FENCE
- EX. TREE
- PROPOSED LIGHT BUILDING RESTRICTION LINE
- PROPOSED GRADING
- EX. 15-25% SLOPES
- EX. >25% SLOPES
- EX. SPECIMEN TREE
- PROPOSED FOREST CONSERVATION EASEMENT
- PROPOSED SOLAR PANELS

SHEET KEY

APPROVED : DEPARTMENT OF PLANNING AND ZONING

[Signature] 10-3-14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 4 DATE

[Signature] 10-07-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 10-10-14
 DIRECTOR DATE

1.3.16	1	ADD CONDITIONAL USE LINE & LIMITS OF SOLAR PANEL
DATE NO.		REVISION

DEVELOPER

THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER

2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT

**NIXON SOLAR
 PHASE II
 (SOLAR FARM)**

AREA

TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE

**SITE DEVELOPMENT
 PLAN**

Pennoni Associates Inc.
 Consulting Engineers

8818 Centre Park Drive
 Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL

DESIGNED BY : JSN
 DRAWN BY: JSN
 PROJECT NO : BIEN1301
 DATE : SEPTEMBER 8, 2014
 SCALE : 1"=50'
 DRAWING NO. 3 OF 21

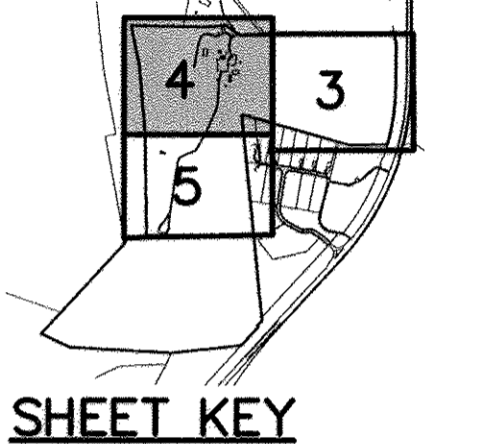


MATCH LINE SEE SHEET 3 OF 21

MATCH LINE SEE SHEET 5 OF 21

LEGEND

EXISTING 2' CONTOUR	----- 248
EXISTING 10' CONTOUR	----- 250
EX. PROPERTY LINE AND RIGHT OF WAY	-----
EXISTING WELL	●
EXISTING SEPTIC FIELD	▨
EX. TREELINE	-----
EX. SOILS	-----
100 YEAR FEMA FLOODPLAIN	-----
100 YEAR FEMA FLOODPLAIN EASEMENT	-----
100' STREAM BUFFER	-----
EX. STREAM	-----
EX. WETLANDS	-----
25' WETLAND BUFFER	-----
PROPOSED 6' HIGH CHAIN LINK FENCE	-----
EX. TREE	☼
PROPOSED LIGHT BUILDING RESTRICTION LINE	-----
PROPOSED GRADING	-----
EX. 15-25% SLOPES	-----
EX. >25% SLOPES	-----
EX. SPECIMEN TREE	☼ 3
PROPOSED FOREST CONSERVATION EASEMENT	-----
PROPOSED SOLAR PANELS	▨



APPROVED : DEPARTMENT OF PLANNING AND ZONING

<i>[Signature]</i>	10-3-14
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	10-07-14
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>[Signature]</i>	10/14/14
DIRECTOR	DATE

1.3.15	ADD CONDITIONAL USE LIMITS AND LIMITS OF SOLAR PANELS
DATE NO.	REVISION

DEVELOPER

THE BITH GROUP
ATTN: RICARDO BETTS
113 WEST MONUMENT STREET
BALTIMORE, MD 21201
T: 410-962-1188

OWNER

2800 NIXONS FARM LANE, LLC
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PROJECT

NIXON SOLAR PHASE II (SOLAR FARM)

AREA

TAX MAP 15, PARCEL 90 ZONED RC-DEO
GRID NO. S 16, 17, AND 22 3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

SITE DEVELOPMENT PLAN

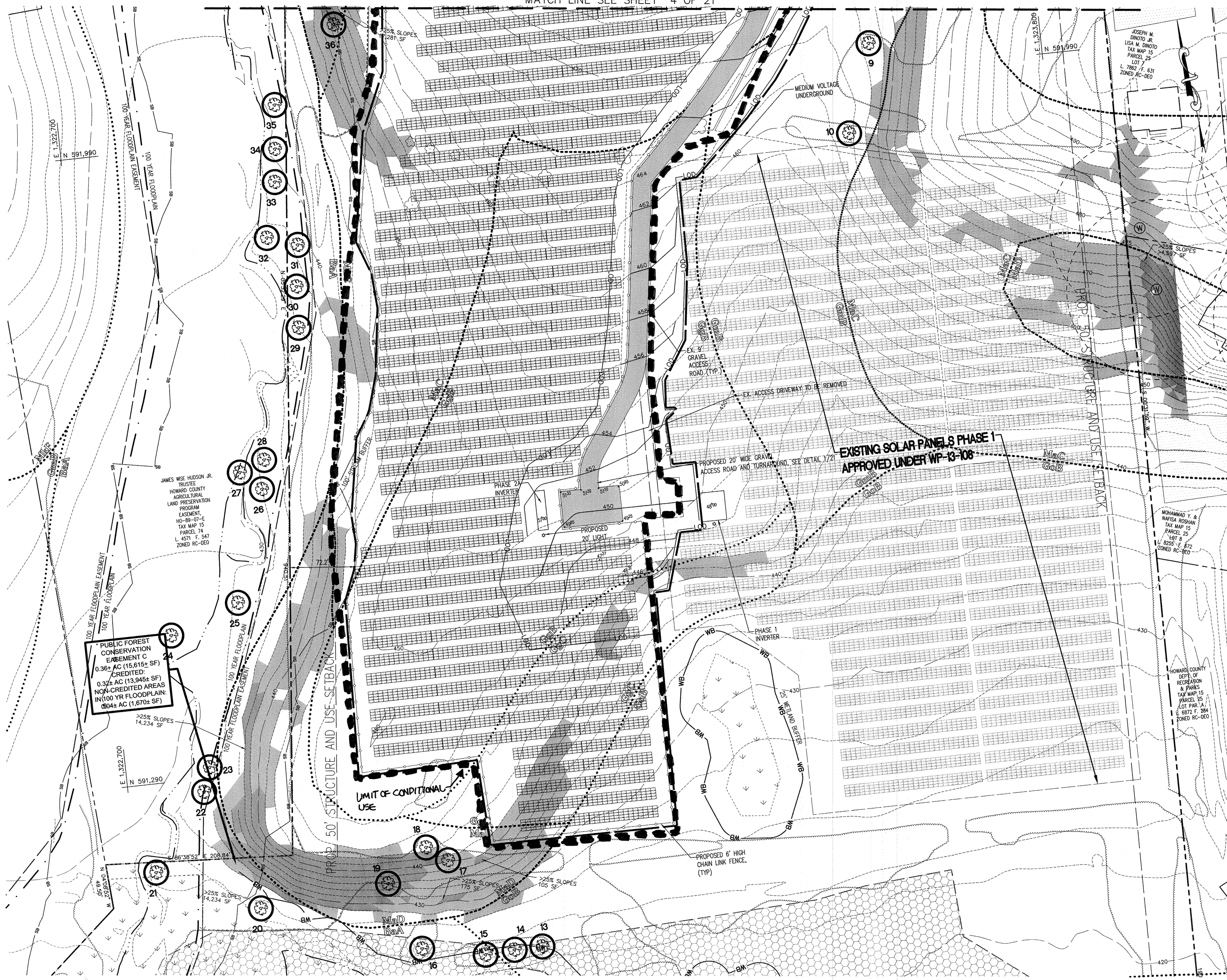
Pennoni Associates Inc.
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8818 Centre Park Drive
Suite 200
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

SEAL

DESIGNED BY : JSN
DRAWN BY: JSN
PROJECT NO : B1EN1301
DATE : SEPTEMBER 8, 2014
SCALE : 1"=50'
DRAWING NO. 4 OF 21

BY: *[Signature]* 9/9/14
PROFESSIONAL ENGINEER
STATE OF MARYLAND
10-23-2014

THESE DOCUMENTS WERE PREPARED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 33529, EXPIRATION DATE: 10-23-2014



LEGEND

- EXISTING 2' CONTOUR 248
- EXISTING 10' CONTOUR 260
- EX. PROPERTY LINE AND RIGHT OF WAY
- EXISTING WELL
- EXISTING SEPTIC FIELD
- EX. TREELINE
- EX. SOILS
- 100 YEAR FEMA FLOODPLAIN
- 100 YEAR FEMA FLOODPLAIN EASEMENT
- 100' STREAM BUFFER
- EX. STREAM
- EX. WETLANDS
- 25' WETLAND BUFFER
- PROPOSED 6' HIGH CHAIN LINK FENCE
- EX. TREE
- PROPOSED LIGHT BUILDING RESTRICTION LINE
- LIMITS OF DISTURBANCE
- PROPOSED GRADING
- EX. MARYLAND STATE HIGHWAY ADMINISTRATION WETLAND MITIGATION AREA (SHA PLAT #59050)
- EX. 15-25% SLOPES
- EX. >25% SLOPES
- EX. SPECIMEN TREE
- PROPOSED FOREST CONSERVATION EASEMENT
- PROPOSED SOLAR PANELS

SHEET KEY

APPROVED : DEPARTMENT OF PLANNING AND ZONING

[Signature] 10-3-14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 10-07-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 10/14/14
 DIRECTOR DATE

DATE	NO.	REVISION
1.3.18	1	ADD CONDITIONAL USE LINE AND LIMITS OF SOLAR PANELS (INSTALLATION)

DEVELOPER

THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER

2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT

**NIXON SOLAR
 PHASE II
 (SOLAR FARM)**

AREA

TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE

**SITE DEVELOPMENT
 PLAN**

Pennoni Associates Inc.
 Consulting Engineers 8818 Centre Park Drive
 Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

Pennoni

SEAL

DESIGNED BY : JSN
 DRAWN BY : JSN
 PROJECT NO : B1EN1301
 DATE : SEPTEMBER 8, 2014
 SCALE : 1"=50'
 DRAWING NO. 5 OF 21

BY: *[Signature]*

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 33529, EXPIRATION DATE: 10-31-2014.



SHEET KEY

*THE LIMIT OF DISTURBANCE ENCOMPASSES THE LIMIT OF LAND GRADING ON THE SITE. THE LIMIT OF WORK ENCOMPASSES THE LIMIT OF SITE WORK FOR THE PROJECT THAT DOES NOT INCLUDE ANY LAND GRADING.

LEGEND

- PROPOSED GRADING
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED EARTH DIKE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED PERMANENT SOIL STABILIZATION MATTING
- EX. 15-25% SLOPES
- EX. >25% SLOPES
- LIMIT OF DISTURBANCE*
- LIMIT OF WORK*
- PROPOSED SOLAR PANELS
- DRAINAGE DIVIDE

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Engineer: *Steven Anderson Jr.* DATE: 9/9/14
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Developer: *John R. Robertson* DATE: 9/19/2014
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

Signature: *John R. Robertson* DATE: 9/30/14
 HOWARD SCD DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: *[Signature]* DATE: 10-3-14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Signature: *[Signature]* DATE: 10-07-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Signature: *[Signature]* DATE: 10/14/14
 DIRECTOR DATE

DATE	NO.	REVISION

DEVELOPER
 THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER
 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT
NIXON SOLAR PHASE II (SOLAR FARM)

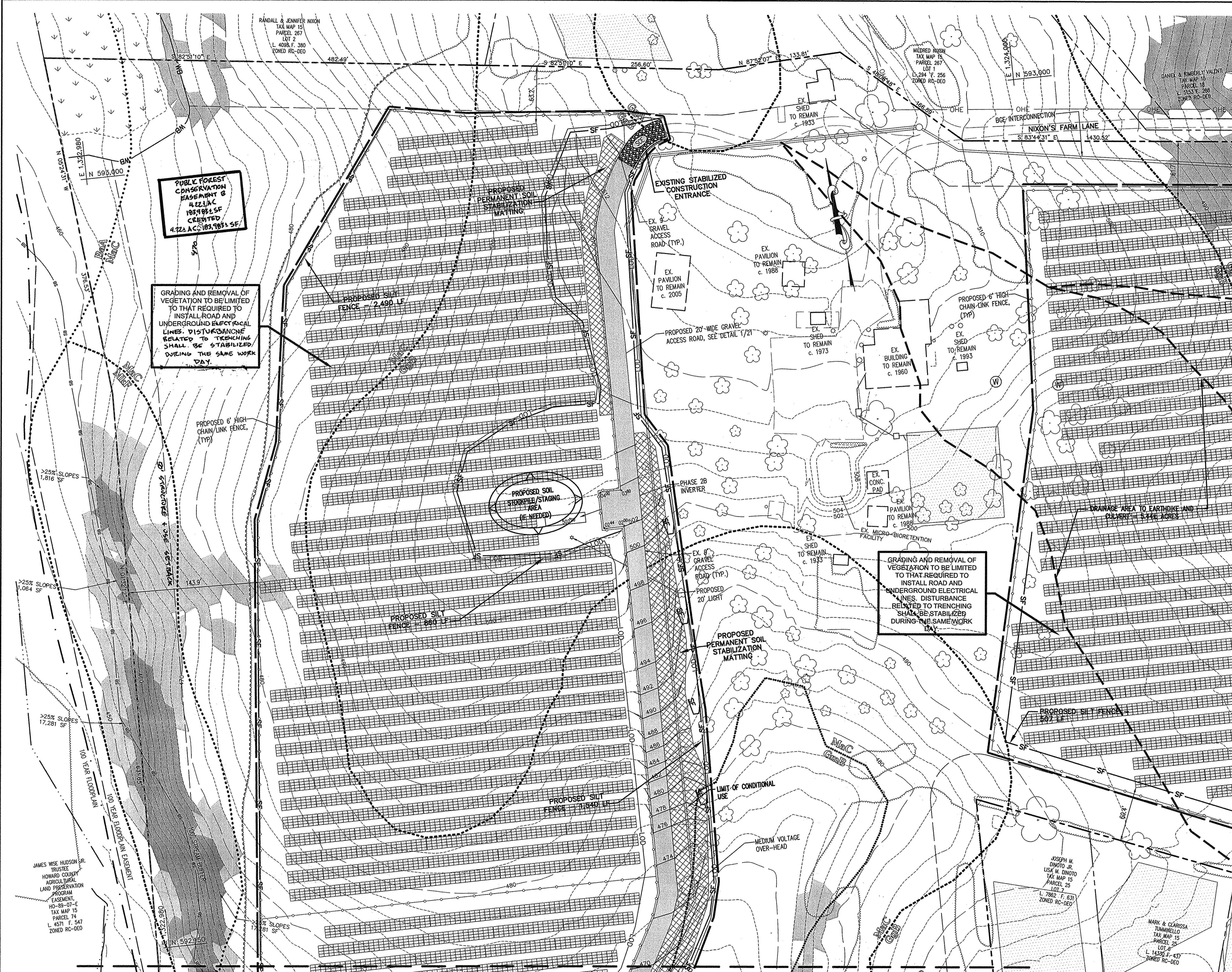
AREA
 TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
GRADING, SEDIMENT & EROSION CONTROL PLAN

Pennoni Associates Inc.
 Consulting Engineers
 8818 Centre Park Drive
 Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL

DESIGNED BY: JSN
 DRAWN BY: JSN
 PROJECT NO: BIEN1301
 DATE: SEPTEMBER 8, 2014
 SCALE: 1"=50'
 DRAWING NO. 6 OF 21



LEGEND

- PROPOSED GRADING
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED EARTH DIKE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED PERMANENT SOIL STABILIZATION MATTING
- EX. 15-25% SLOPES
- EX. >25% SLOPES
- LIMIT OF DISTURBANCE
- LIMIT OF WORK*
- PROPOSED SOLAR PANELS
- DRAINAGE DIVIDE

SHEET KEY

*THE LIMIT OF DISTURBANCE ENCOMPASSES THE LIMIT OF LAND GRADING ON THE SITE. THE LIMIT OF WORK ENCOMPASSES THE LIMIT OF SITE WORK FOR THE PROJECT THAT DOES NOT INCLUDE ANY LAND GRADING.

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Steven Anderson Jr. 9/19/14
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

L. Paul Waalk 9/18/2014
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Robertson 9/30/14
HOWARD SCD DATE

APPROVED : DEPARTMENT OF PLANNING AND ZONING

Paul Clark 10-3-14
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Kurt Seabrook 10-07-14
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Paul L. King 10/14/14
DIRECTOR DATE

DATE NO. REVISION

DEVELOPER

THE BITH GROUP
ATTN: RICARDO BETTS
113 WEST MONUMENT STREET
BALTIMORE, MD 21201
T: 410-962-1188

OWNER

2800 NIXONS FARM LANE, LLC
ATTN: GEORGE BROWN
17500 FREDERICK ROAD
MT AIRY, MD 21771
T: 410-461-7200

PROJECT

**NIXON SOLAR
PHASE II
(SOLAR FARM)**

AREA

TAX MAP 15, PARCEL 90 ZONED RC-DEO
GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

**GRADING, SEDIMENT & EROSION
CONTROL PLAN**

Pennoni Associates Inc.
Consulting Engineers 8818 Centre Park Drive
Suite 200
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

SEAL

Steven R. Anderson 9/19/14
BY: DATE

DESIGNED BY : JSN
DRAWN BY: JSN
PROJECT NO : BIEN1301
DATE : SEPTEMBER 8, 2014
SCALE : 1"=50'
DRAWING NO. 7 OF 21

LEGEND

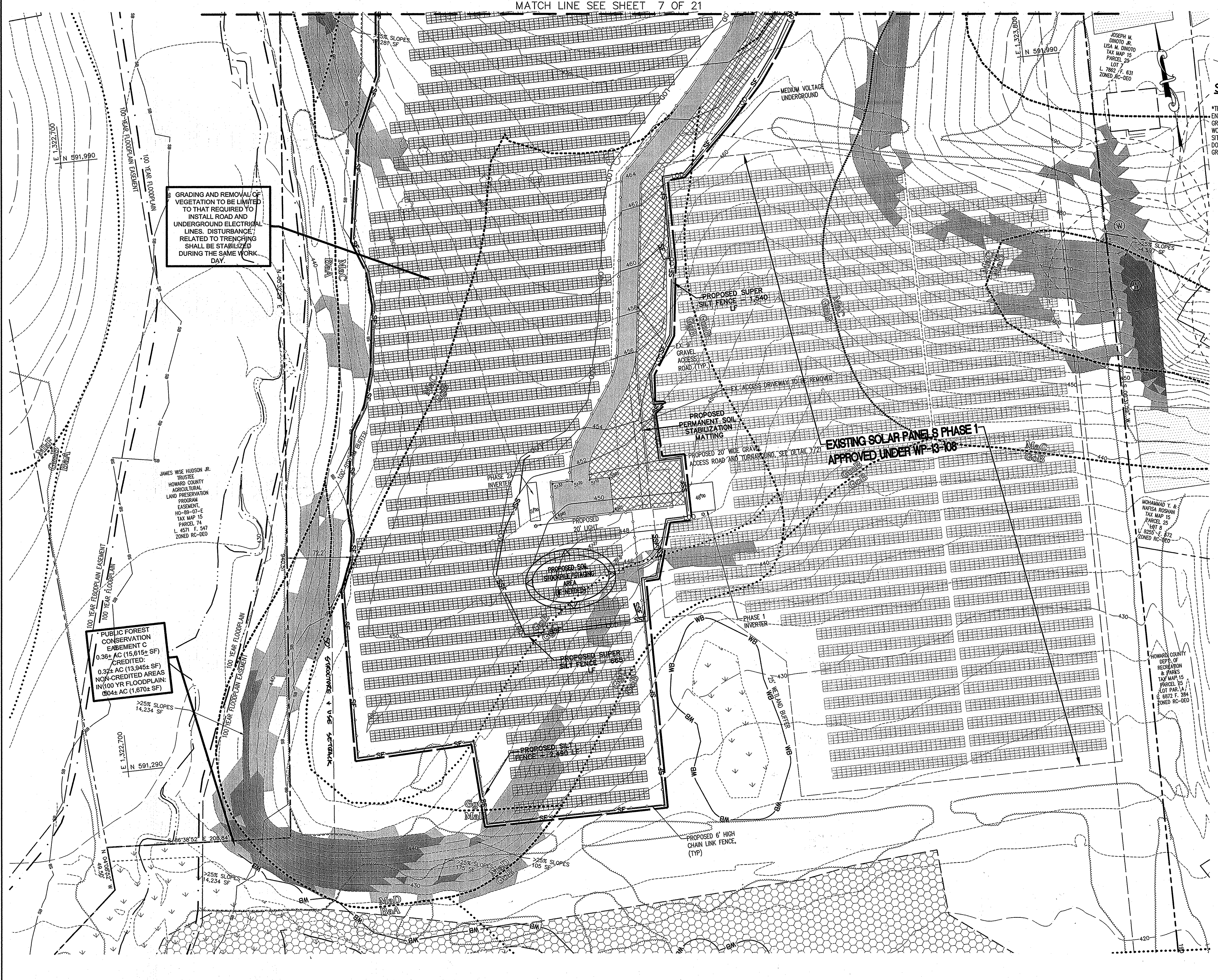
- PROPOSED GRADING: 522
- PROPOSED SILT FENCE: SF
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE: SCE
- PROPOSED PERMANENT SOIL STABILIZATION MATTING: [Cross-hatched pattern]
- EX. 15-25% SLOPES: [Stippled pattern]
- EX. >25% SLOPES: [Solid black]
- LIMIT OF DISTURBANCE* LIMIT OF WORK*: LOD
- PROPOSED SOLAR PANELS: [Grid pattern]

SHEET KEY

*THE LIMIT OF DISTURBANCE ENCOMPASSES THE LIMIT OF LAND GRADING ON THE SITE. THE LIMIT OF WORK ENCOMPASSES THE LIMIT OF SITE WORK FOR THE PROJECT THAT DOES NOT INCLUDE ANY LAND GRADING.

GRADING AND REMOVAL OF VEGETATION TO BE LIMITED TO THAT REQUIRED TO INSTALL ROAD AND UNDERGROUND ELECTRICAL LINES. DISTURBANCE RELATED TO TRENCHING SHALL BE STABILIZED DURING THE SAME WORK DAY.

PUBLIC FOREST CONSERVATION EASEMENT C
0.36± AC (15,615± SF)
CREDITED:
0.32± AC (13,945± SF)
NON-CREDITED AREAS IN 100 YR FLOODPLAIN:
0.04± AC (1,670± SF)



ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: *Steven Anderson Jr.* DATE: 9/8/14
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE
STEVEN ANDERSON JR.

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: *R. Paul Wall* DATE: 9/18/2014
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE
R. PAUL WALL

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *John K. Roberts* DATE: 9/30/14
HOWARD SCD

APPROVED : DEPARTMENT OF PLANNING AND ZONING

Signature: *[Signature]* DATE: 10-3-14
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Signature: *[Signature]* DATE: 10-07-14
CHIEF, DIVISION OF LAND DEVELOPMENT

Signature: *[Signature]* DATE: 10/14/14
DIRECTOR

DATE	NO.	REVISION

DEVELOPER

THE BITH GROUP
ATTN: RICARDO BETTS
113 WEST MONUMENT STREET,
BALTIMORE, MD 21201
T: 410-962-1188

OWNER

2800 NIXONS FARM LANE, LLC
ATTN: GEORGE BROWN
17500 FREDERICK ROAD
MT AIRY, MD 21771
T: 410-461-7200

PROJECT

**NIXON SOLAR
PHASE II
(SOLAR FARM)**

AREA

TAX MAP 15, PARCEL 90 ZONED RC-DEO
GRID N.O.S 16, 17, AND 22 3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

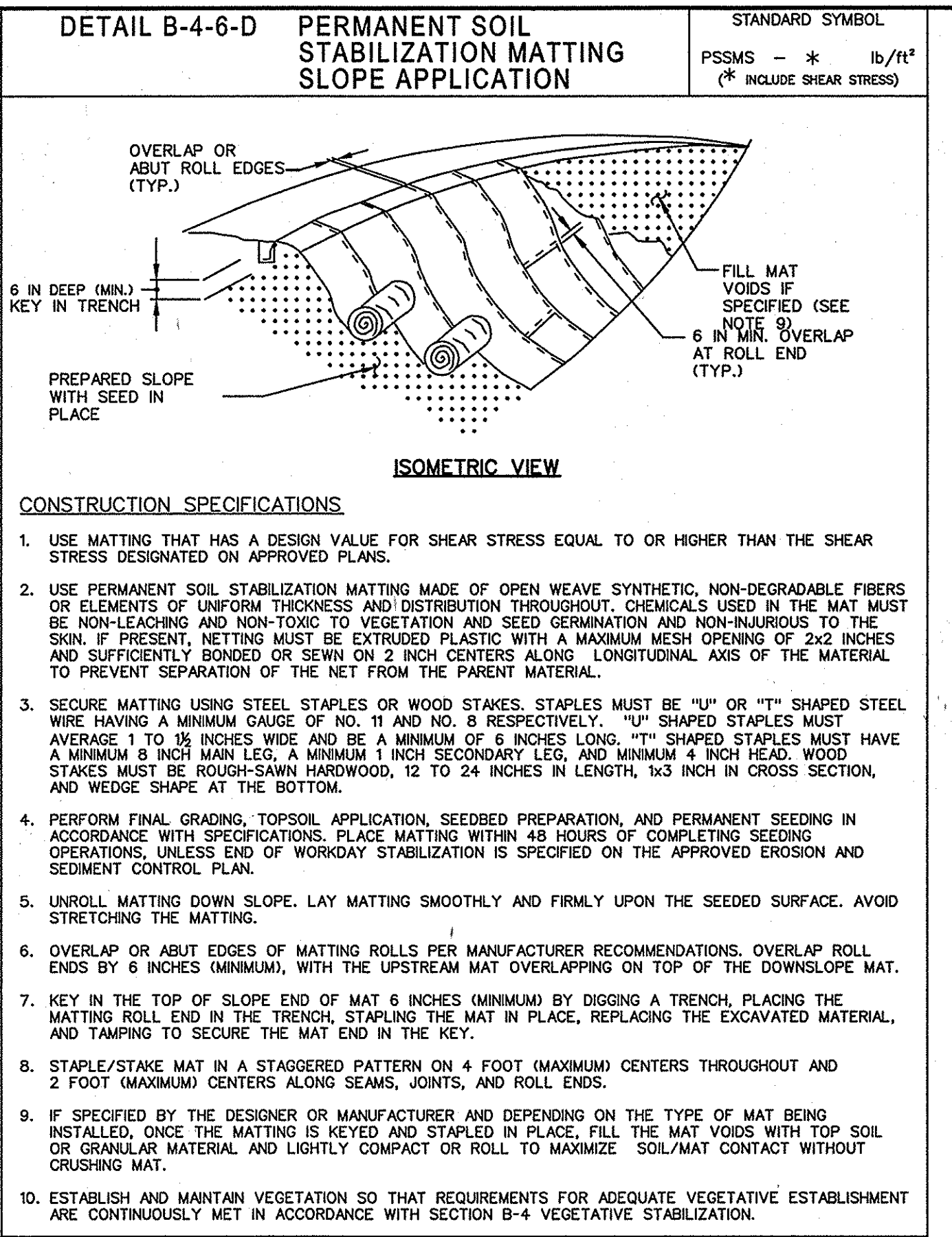
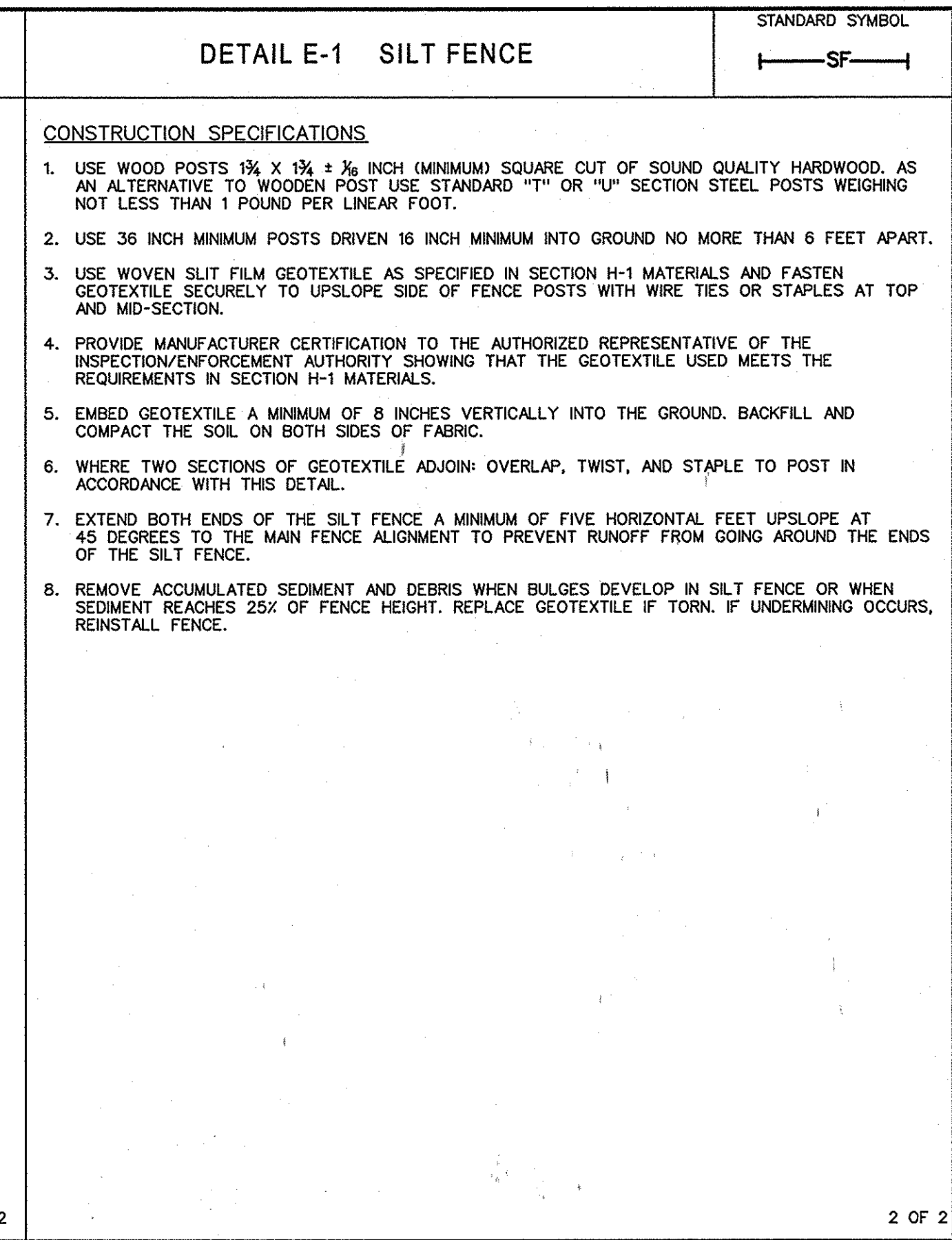
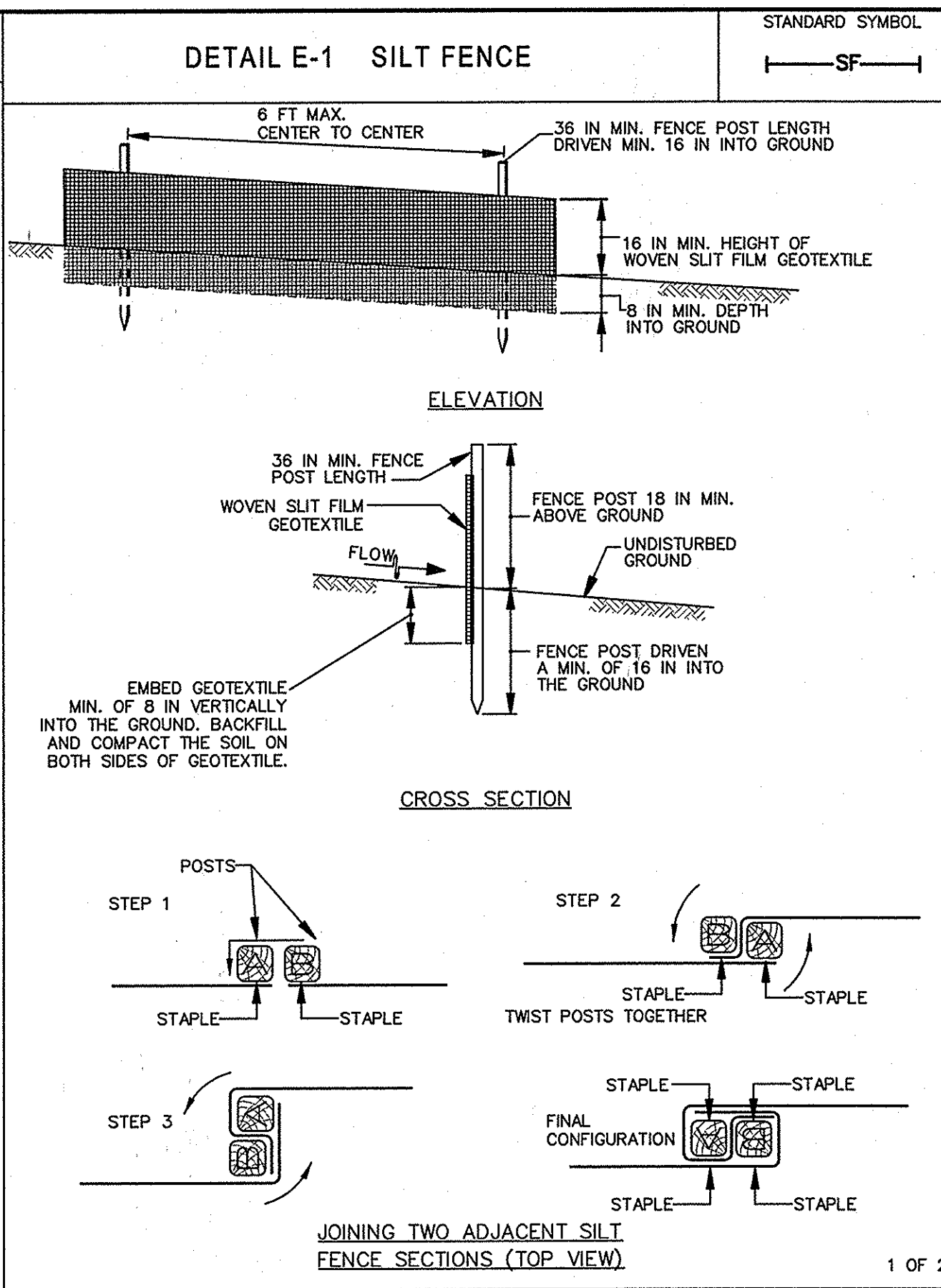
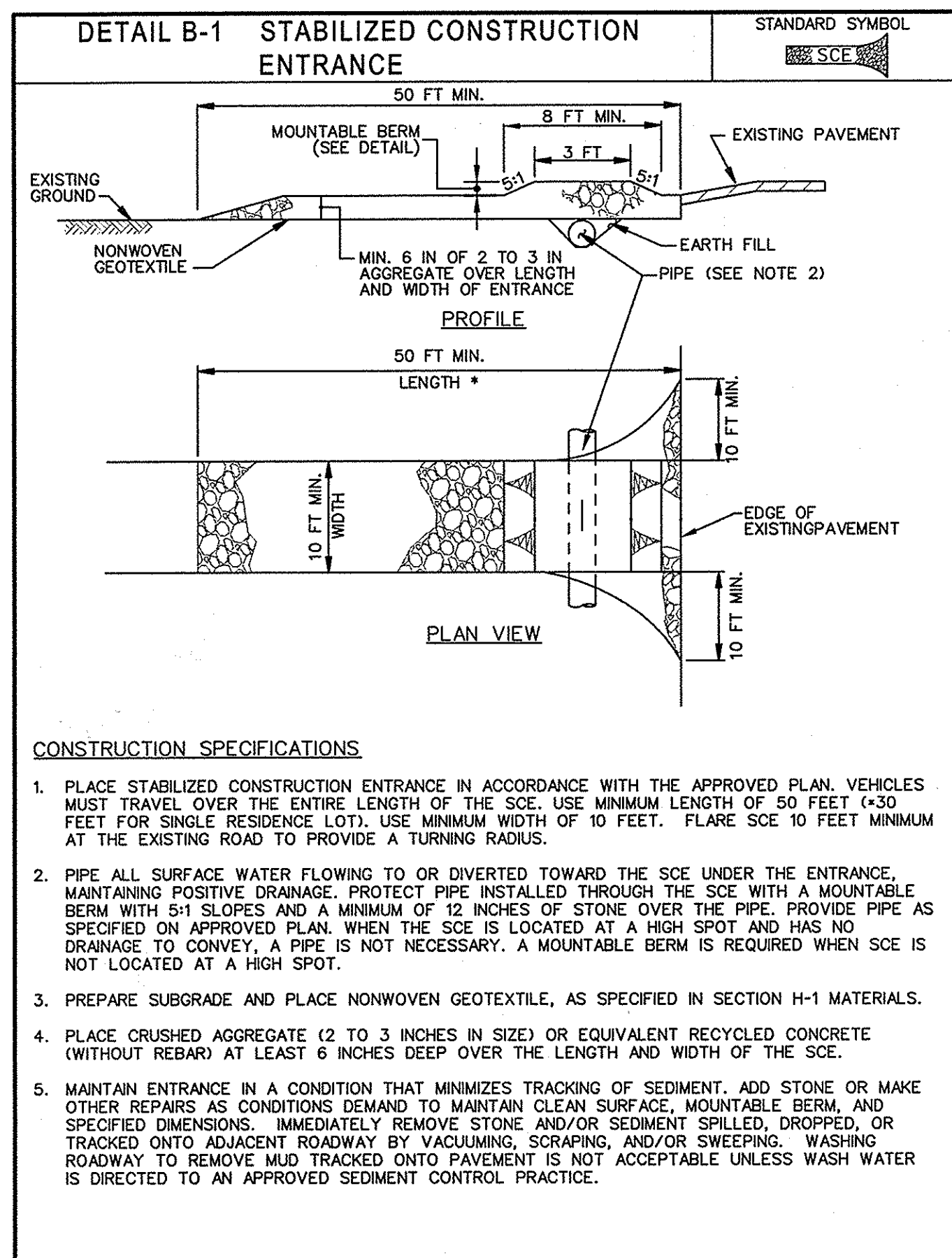
TITLE

**GRADING, SEDIMENT & EROSION
CONTROL PLAN**

Pennoni Associates Inc.
Consulting Engineers
8818 Centre Park Drive
Suite 200
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

SEAL

DESIGNED BY: JSN
DRAWN BY: JSN
PROJECT NO.: B1EN1301
DATE: SEPTEMBER 8, 2014
SCALE: 1"=50'
DRAWING NO. 8 OF 21

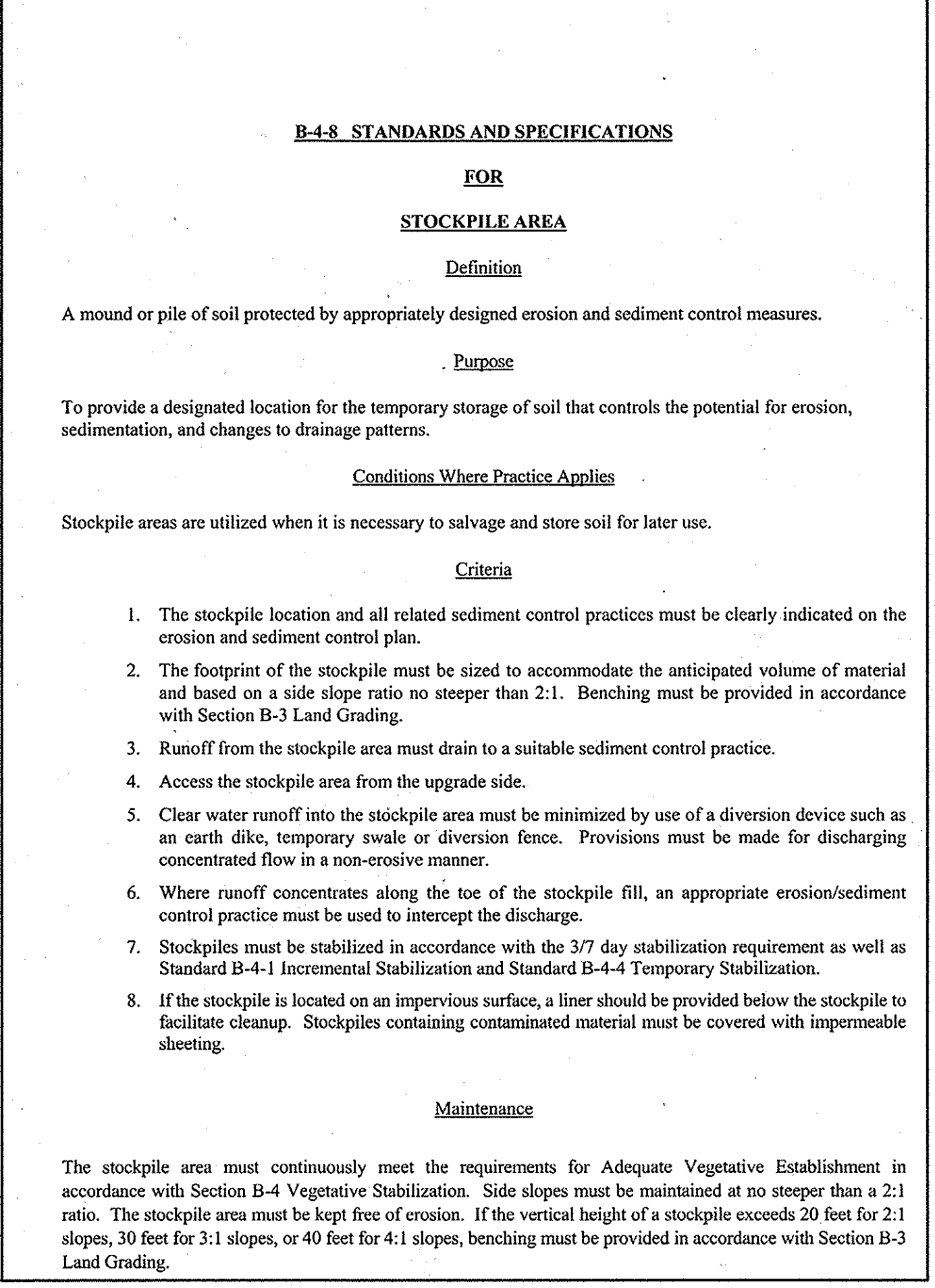
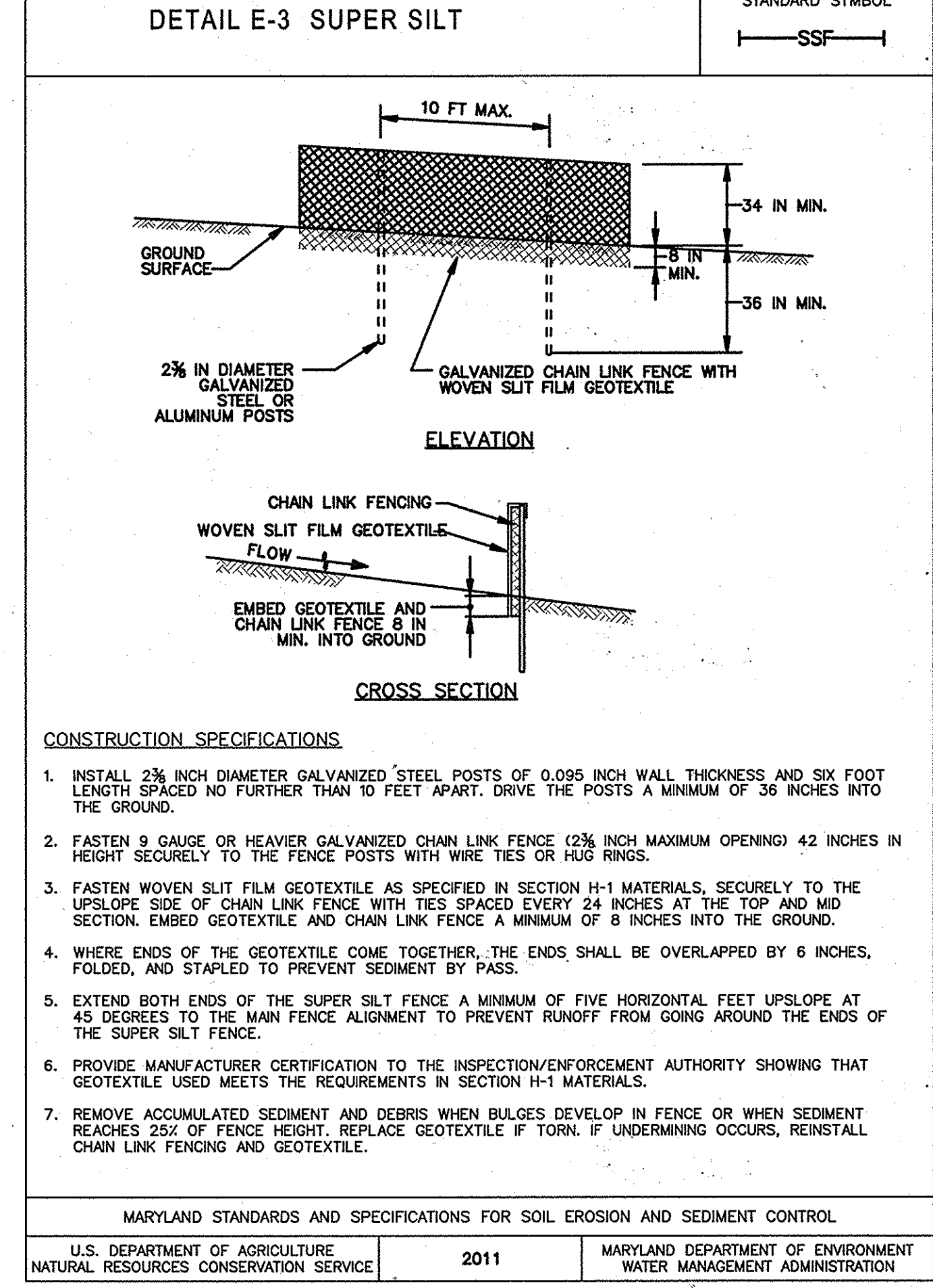
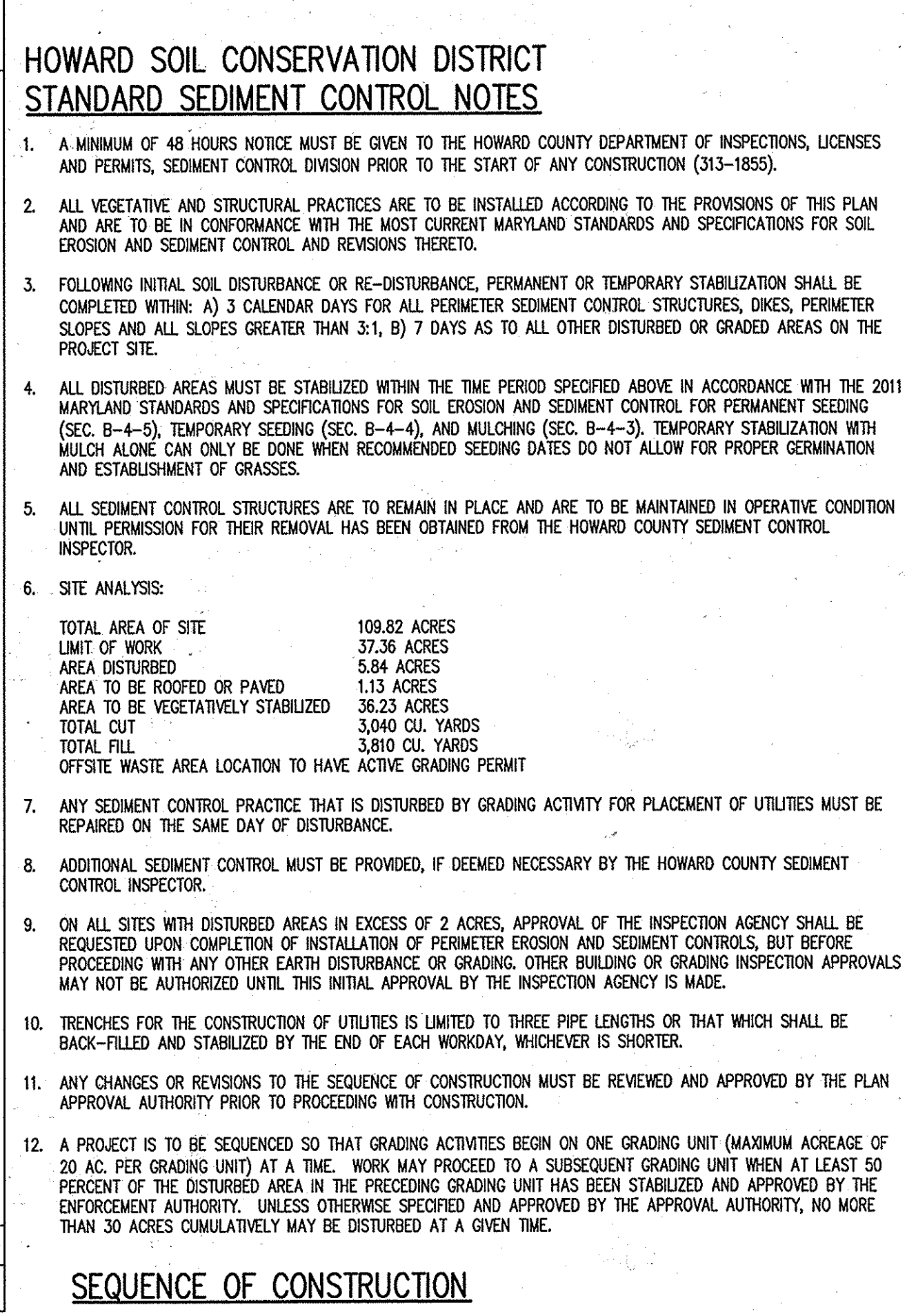
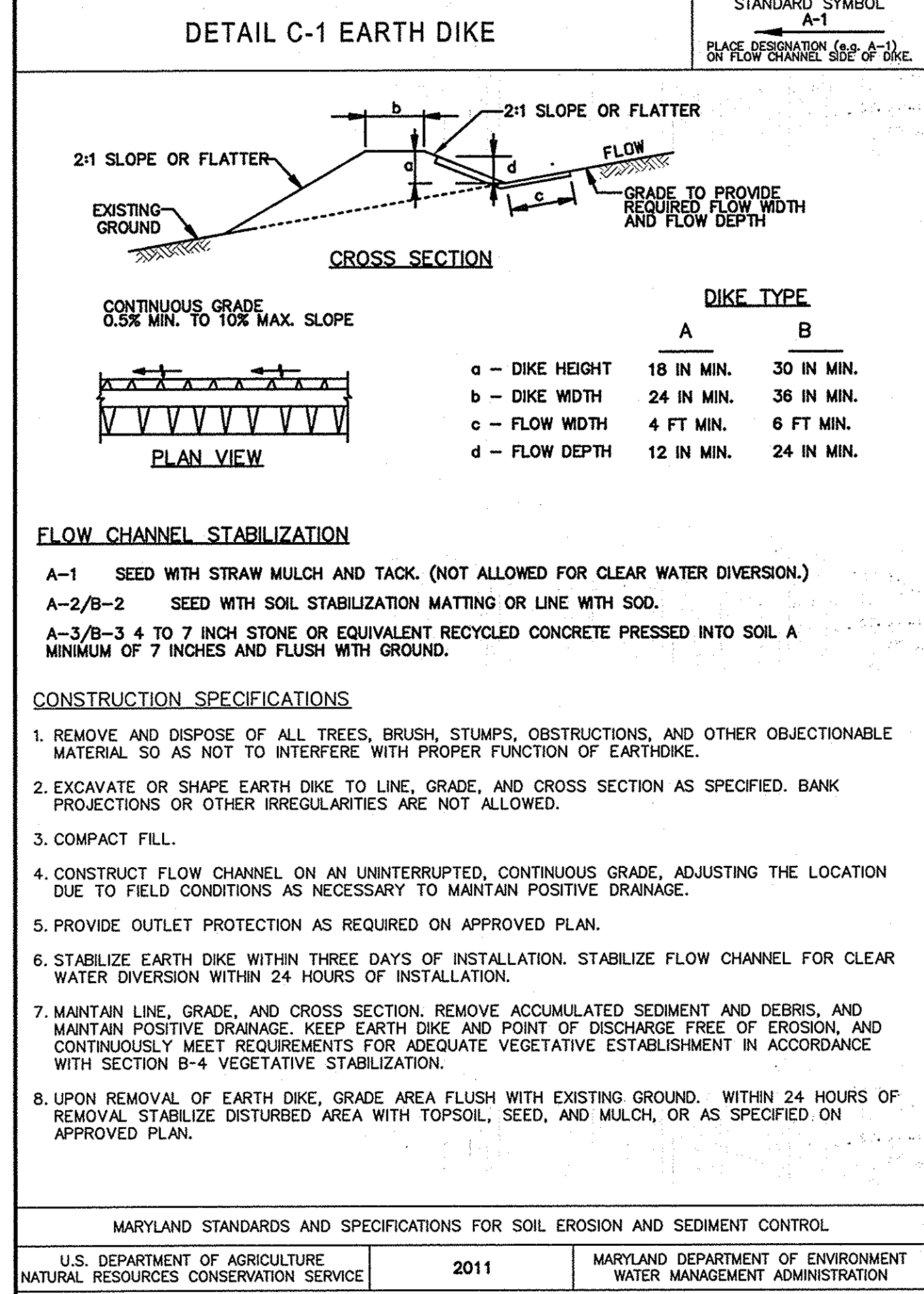


MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 Signature: *John D. Robertson* 9/29/14
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
 Signature: *R. David Wall* 09/18/2014
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John D. Robertson* 9/30/14
 HOWARD SCD FENCE DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *John D. Robertson* 10-3-14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Signature: *Neil S. Dinkel* 10-02-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Signature: *Mark A. Long* 10/1/14
 DIRECTOR DATE

DATE	NO.	REVISION

DEVELOPER
 THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER
 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDRICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT
 NIXON SOLAR PHASE II (SOLAR FARM)

AREA
 TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.5 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

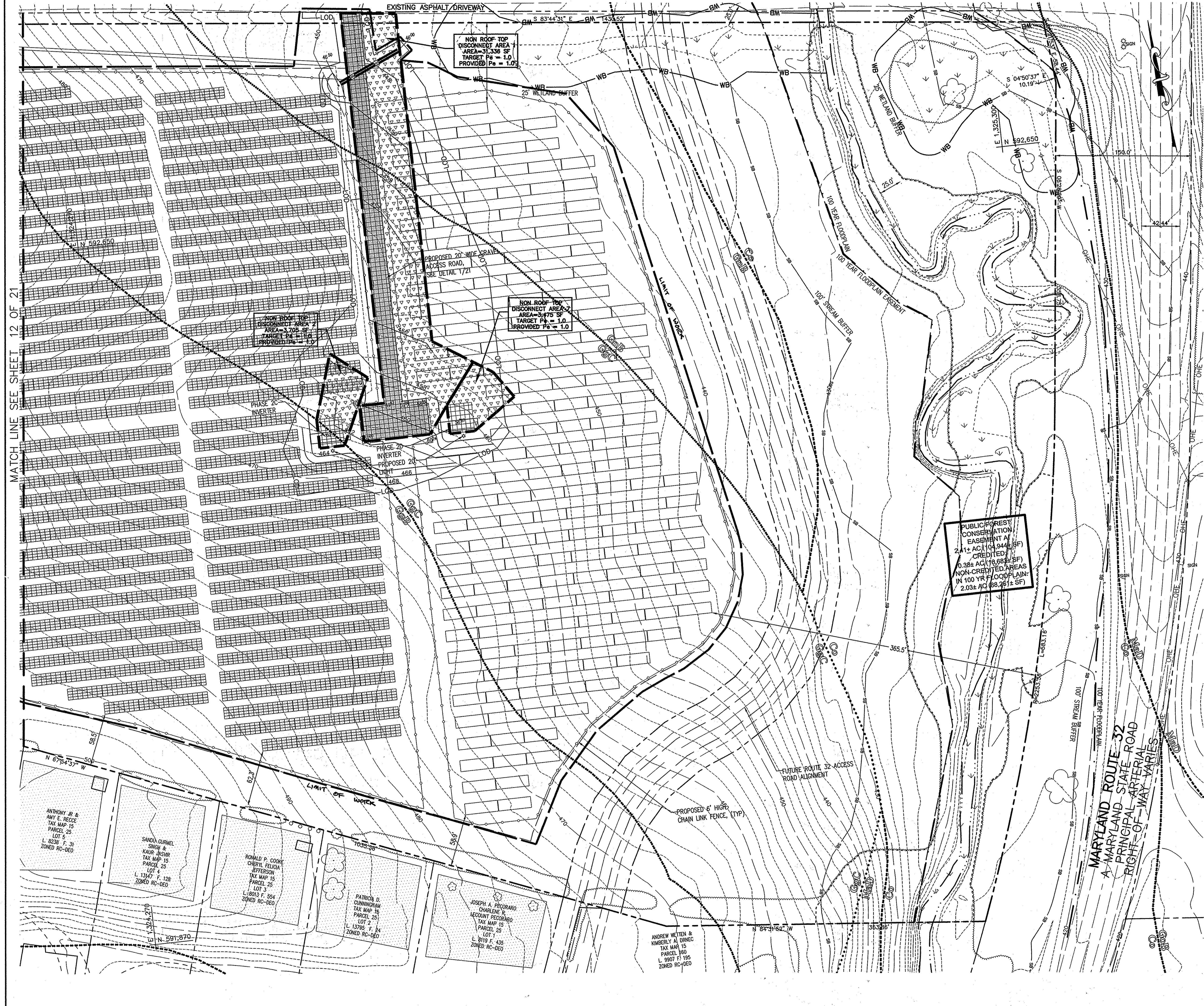
TITLE
 SEDIMENT & EROSION CONTROL DETAILS

Pennoni Associates Inc. Consulting Engineers 8818 Centre Park Drive Suite 200 Columbia, MD 21045 T 410.997.8900 F 410.997.9282

DESIGNED BY: JSN
DRAWN BY: JSN
PROJECT NO.: B1EN1301
DATE: SEPTEMBER 8, 2014
SCALE: AS SHOWN
DRAWING NO.: 10 OF 21

By: *John D. Robertson* 9/29/14
 PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 33229, EXPIRATION DATE: 10-25-2016

TEMPORARY OR PERMANENT STABILIZATION IS TO BE PERFORMED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR WITHIN THE TIME FRAMES REQUIRED BY THE 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, WHICHEVER IS MORE STRINGENT.



LEGEND

- IMPERVIOUS AREA: [Grid pattern]
- NON-ROOFTOP DISCONNECT CREDIT (N-2): [Dotted pattern]
- PROPOSED DRAINAGE DIVIDE: [Dashed line]
- PROPOSED SOLAR PANELS: [Grid pattern]

SHEET KEY

MATCH LINE SEE SHEET 12 OF 21

APPROVED : DEPARTMENT OF PLANNING AND ZONING

[Signature] 10-3-14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE

[Signature] 10-07-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 8/8/14
 DIRECTOR DATE

DATE NO.	REVISION

DEVELOPER: THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER: 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT: **NIXON SOLAR PHASE II (SOLAR FARM)**

AREA: TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

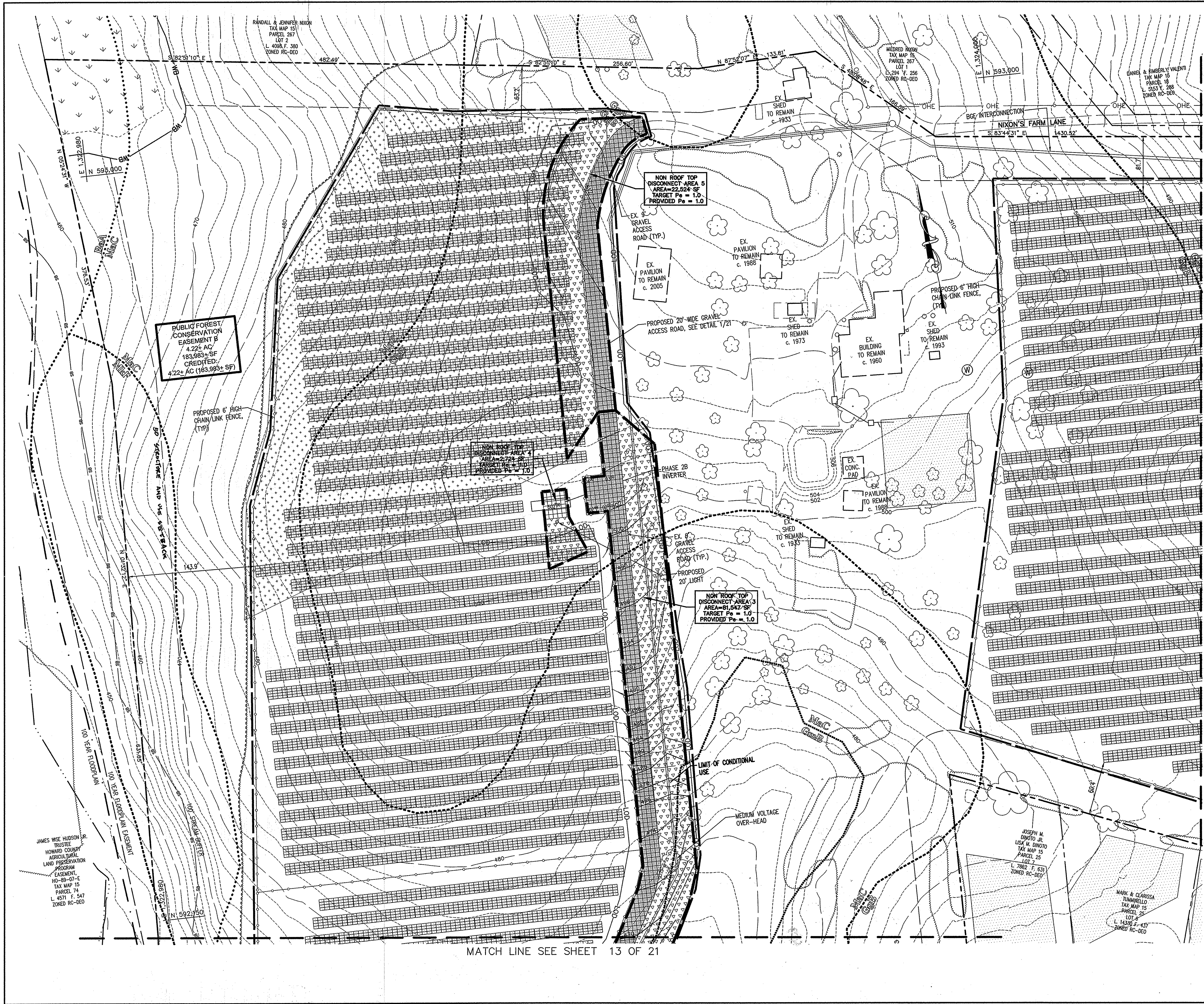
TITLE: **STORMWATER MANAGEMENT PLAN**

Pennoni Associates Inc. 8818 Centre Park Drive
 Consulting Engineers Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL:

DESIGNED BY: JSN
 DRAWN BY: JSN
 PROJECT NO: BIEN1301
 DATE: SEPTEMBER 8, 2014
 SCALE: 1"=50'
 DRAWING NO. 11 OF 21

BY: *[Signature]* 9/9/14
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15011, EXPIRATION DATE: 12-31-2014




SHEET KEY


LEGEND


- IMPERVIOUS AREA
- NON-ROOFTOP DISCONNECT CREDIT (N-2)
- CONTRIBUTING AREA TO SHEETFLOW TO CONSERVATION AREA (N-3)
- PROPOSED DRAINAGE DIVIDE
- PROPOSED SOLAR PANELS

MATCH LINE SEE SHEET 11 OF 21

APPROVED : DEPARTMENT OF PLANNING AND ZONING

 10-3-14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

 10-07-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

 11/10/14
 DIRECTOR DATE

DATE	NO.	REVISION


DEVELOPER
 THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188


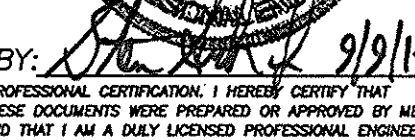
OWNER
 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT
NIXON SOLAR PHASE II (SOLAR FARM)

AREA
 TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
STORMWATER MANAGEMENT PLAN


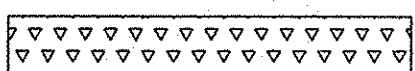



Pennoni Associates Inc.
 Consulting Engineers

 8818 Centre Park Drive
 Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL

 BY:  9/9/14
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 33526, EXPIRATION DATE 10-23-2014.

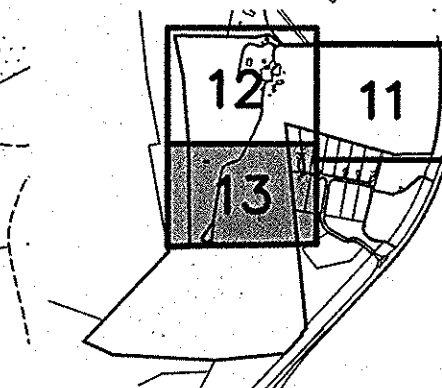
DESIGNED BY : JSN
 DRAWN BY : JSN
 PROJECT NO : BIEN1301
 DATE : SEPTEMBER 8, 2014
 SCALE : 1"=50'
 DRAWING NO. 12 OF 21

MATCH LINE SEE SHEET 13 OF 21

LEGEND

- IMPERVIOUS AREA 
- NON-ROOFTOP DISCONNECT CREDIT (N-2) 
- PROPOSED DRAINAGE DIVIDE 
- EX. MARYLAND STATE HIGHWAY ADMINISTRATION WETLAND MITIGATION AREA (SHA PLAT #59050) 
- PROPOSED SOLAR PANELS 

SHEET KEY



APPROVED : DEPARTMENT OF PLANNING AND ZONING

<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	10-3-14 DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	10-07-14 DATE
<i>[Signature]</i> DIRECTOR	10/15 DATE

DATE NO.	REVISION
----------	----------


DEVELOPER
 THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

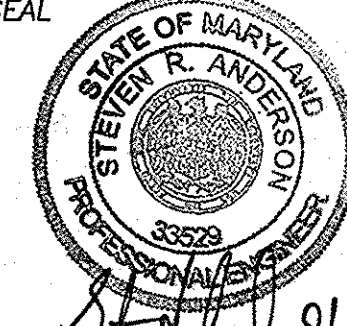
OWNER
 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

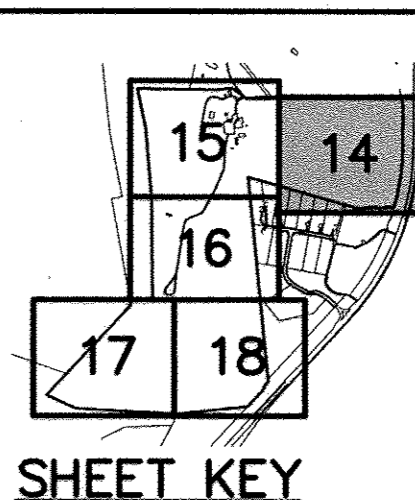
PROJECT
**NIXON SOLAR
 PHASE II
 (SOLAR FARM)**

AREA
 TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID N.O.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
**STORMWATER
 MANAGEMENT PLAN**

Pennoni Associates Inc.
 Consulting Engineers

 8818 Centre Park Drive
 Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL

 DESIGNED BY : JSN
 DRAWN BY : JSN
 PROJECT NO : BIEN1301
 DATE : SEPTEMBER 8, 2014
 SCALE : 1"=50'
 DRAWING NO. 13 OF 21



LEGEND	
PERIMETER REQUIREMENT	
PROPOSED SHADE TREE	
PROPOSED EVERGREEN TREE	
PROPOSED PUBLIC FOREST CONSERVATION EASEMENT (CREDITED)	
PROPOSED PUBLIC FOREST CONSERVATION EASEMENT (NON-CREDITED)	
PROPOSED PUBLIC FOREST CONSERVATION EASEMENT SIGN	
EX. 15-25% SLOPES	
EX. >25% SLOPES	
EX. STREAM	
EX. WETLANDS	
25' WETLAND BUFFER	
EX. TREE	
EX. SPECIMEN TREE	
EX. PLANT COMMUNITY	
EX. HEDGEROW	
EX. WOODED AREA	
PROPOSED SOLAR PANELS	

DEVELOPER'S/BUILDER'S CERTIFICATE:
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Z. Duell Wall 09/14/2014
 SIGNATURE DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/3/14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
[Signature] 10-07-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
[Signature] 10/14/14
 DIRECTOR DATE

DATE	NO.	REVISION
	1	ADD NOTE

DEVELOPER
 THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER
 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT
NIXON SOLAR PHASE II (SOLAR FARM)

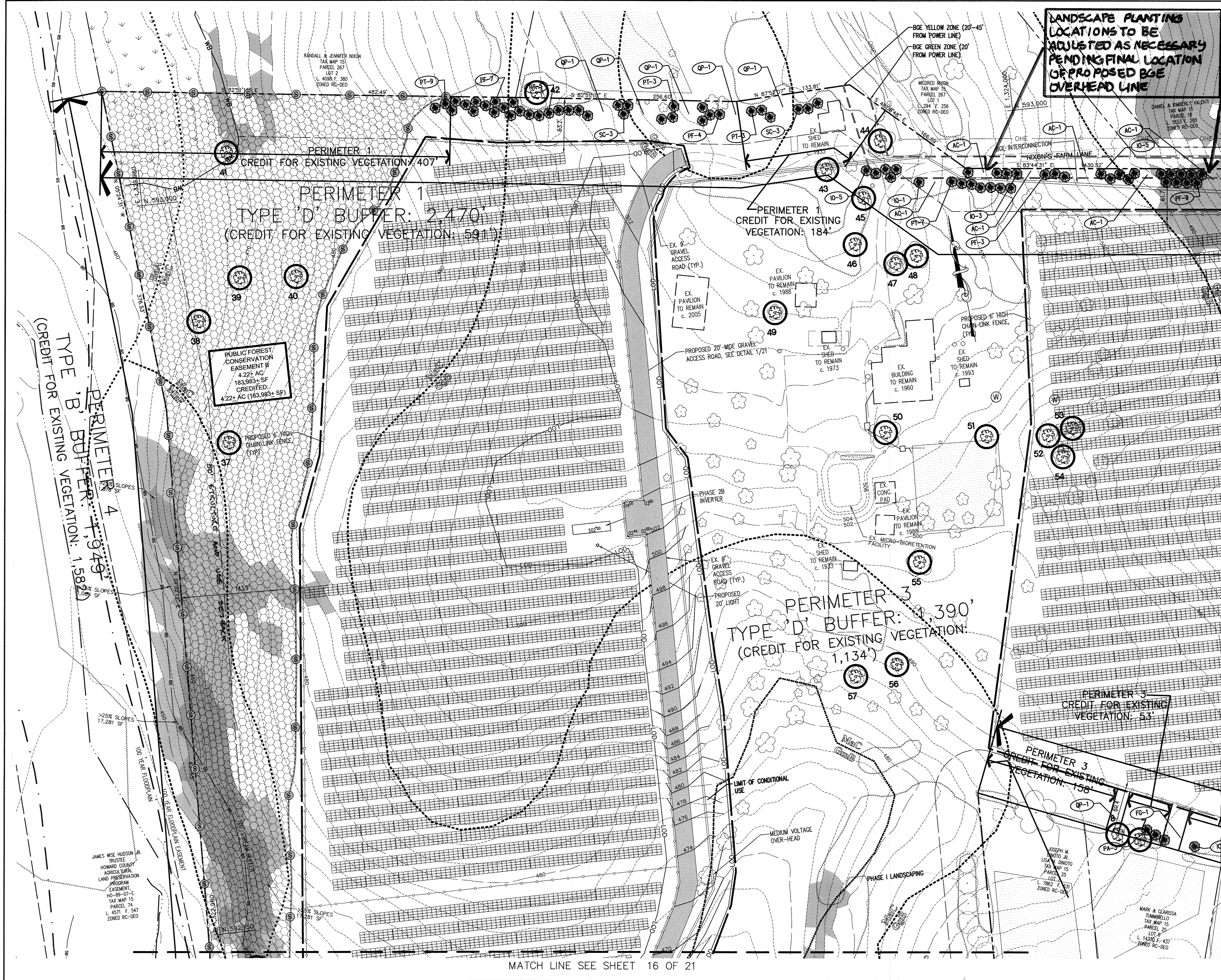
AREA
 TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
LANDSCAPE & FOREST CONSERVATION PLAN

Pennoni Associates Inc.
 Consulting Engineers
Pennoni
 8818 Centre Park Drive
 Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: JSN
 DRAWN BY: JSN
 PROJECT NO.: BIEN1301
 DATE: SEPTEMBER 8, 2014
 SCALE: 1"=50'
 DRAWING NO. 14 OF 21

PETER J. STONE 3068
 9.18.14



LANDSCAPE PLANTING LOCATIONS TO BE ADJUSTED AS NECESSARY PENDING FINAL LOCATION OF PROPOSED BGE OVERHEAD LINE

LEGEND

- PERIMETER REQUIREMENT (AS-3)
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE
- PROPOSED PUBLIC FOREST CONSERVATION EASEMENT
- PROPOSED PUBLIC FOREST CONSERVATION EASEMENT SIGN
- EX. 15-25% SLOPES
- EX. >25% SLOPES
- EX. STREAM
- EX. WETLANDS
- 25' WETLAND BUFFER (WB)
- EX. TREE
- EX. SPECIMEN TREE
- EX. PLANT COMMUNITY (F1, P1)
- EX. HEDGEROW (H)
- EX. WOODED AREA (W)
- PROPOSED SOLAR PANELS

SHEET KEY

15 14
16 18

DEVELOPER'S/BUILDER'S CERTIFICATE:
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Signature: *H. Paul Velle* Date: 09/18/2014
 APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division: *Shelagh* Date: 10-3-14
 Chief, Division of Land Development: *V. DeLoach* Date: 10-07-14
 Director: *David P. ...* Date: 10/10/14

DATE	NO.	REVISION
	1	ADD NOTE

DEVELOPER
 THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER
 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT
NIXON SOLAR PHASE II (SOLAR FARM)

AREA
 TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID N.O.S. 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

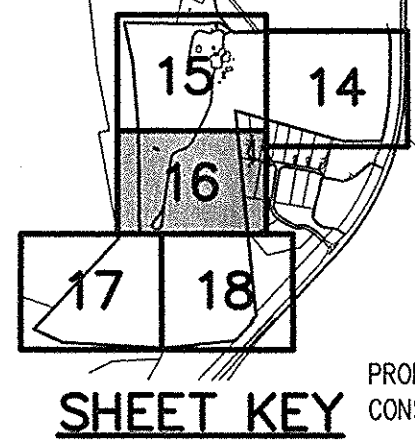
TITLE
LANDSCAPE & FOREST CONSERVATION PLAN

Pennoni Associates Inc. Consulting Engineers
 8818 Centre Park Drive Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DATE
 DESIGNED BY: JSN
 DRAWN BY: JSN
 PROJECT NO: BIEN1301
 DATE: SEPTEMBER 8, 2014
 SCALE: 1"=50'
 DRAWING NO. 15 OF 21

LEGEND

- PERIMETER REQUIREMENT (A-B)
- PROPOSED SHADE TREE (circle with cross)
- PROPOSED EVERGREEN TREE (circle with star)
- PROP. PUBLIC FOREST CONSERVATION ESMT. (CREDITED) (hatched pattern)
- PROP. PUBLIC FOREST CONSERVATION ESMT (NON-CREDITED) (dotted pattern)
- PROPOSED PUBLIC FOREST CONSERVATION EASEMENT SIGN (S)
- EX. 15-25% SLOPES (shaded area)
- EX. >25% SLOPES (darker shaded area)
- EX. STREAM (dashed line)
- EX. WETLANDS (wavy line)
- 25' WETLAND BUFFER (WB)
- EX. TREE (circle with cross)
- EX. SPECIMEN TREE (circle with star)
- EX. PLANT COMMUNITY (FI, PI)
- EX. HEDGEROW (H)
- EX. WOODED AREA (W)
- PROPOSED SOLAR PANELS (grid pattern)



SHEET KEY

DEVELOPER'S/BUILDER'S CERTIFICATE:

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

R. Paul Vach 09/18/2014
SIGNATURE DATE

APPROVED : DEPARTMENT OF PLANNING AND ZONING
[Signature] 10-3-14
CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE
[Signature] 10-07-14
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
[Signature] 10/14/14
DIRECTOR DATE

DATE	NO.	REVISION

DEVELOPER
THE BITH GROUP
ATTN: RICARDO BETTS
113 WEST MONUMENT STREET
BALTIMORE, MD 21201
T: 410-962-1188

OWNER
2800 NIXONS FARM LANE, LLC
ATTN: GEORGE BROWN
17500 FREDERICK ROAD
MT AIRY, MD 21771
T: 410-461-7200

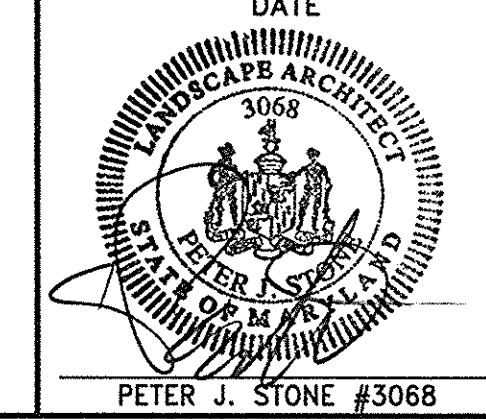
PROJECT
NIXON SOLAR PHASE II (SOLAR FARM)

AREA TAX MAP 15, PARCEL 90 ZONED RC-DEO
GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE **LANDSCAPE & FOREST CONSERVATION PLAN**

Pennoni Associates Inc. Consulting Engineers
8818 Centre Park Drive
Suite 200
Columbia, MD 21045
T 410.997.8900
F 410.997.9262

9.18.14 DATE
DESIGNED BY : JSN
DRAWN BY : JSN
PROJECT NO : BIEN1301
DATE : SEPTEMBER 8, 2014
SCALE : 1"=50'
DRAWING NO. 16 OF 21



PUBLIC FOREST CONSERVATION EASEMENT B
4.22± AC
183,983± SF
CREDITED:
4.22± AC (183,983± SF)

PERIMETER 4
TYPE 'B' BUFFER: 1,949'
(CREDIT FOR EXISTING VEGETATION: 1,582')

PERIMETER 4
CREDIT FOR EXISTING VEGETATION: 367'

JAMES WISE HUDSON JR.
TRUSTEE
HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM EASEMENT
HO-89-07-E
TAX MAP 15
PARCEL 74
L. 4571 F. 547
ZONED RC-350

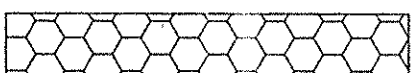
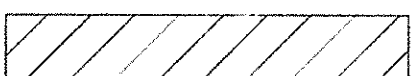











PUBLIC FOREST CONSERVATION EASEMENT C
0.36± AC (15,615± SF)
CREDITED:
0.32± AC (13,945± SF)
NON-CREDITED AREAS
IN 100 YR FLOODPLAIN:
0.04± AC (1,670± SF)

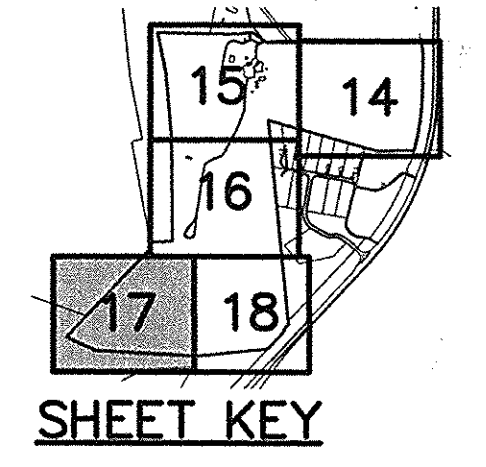
PERIMETER 5
CREDIT FOR EXISTING VEGETATION: 303'

PERIMETER 5
TYPE 'B' BUFFER: 426'
(CREDIT FOR EXISTING VEGETATION: 401')

EXISTING SOLAR PANEL PHASE I
APPROVED UNDER WP-13-108

LEGEND

- PROPOSED PUBLIC FOREST CONSERVATION EASEMENT 
- EXISTING MDSA EASEMENT (SHA PLAT # 59050) 
- PROPOSED PUBLIC FOREST CONSERVATION EASEMENT SIGN 
- EX. 15-25% SLOPES 
- EX. >25% SLOPES 
- EX. STREAM 
- EX. WETLANDS 
- 25' WETLAND BUFFER 
- EX. TREE 
- EX. SPECIMEN TREE 
- EX. PLANT COMMUNITY 
- EX. HEDGEROW 
- EX. WOODED AREA 



APPROVED : DEPARTMENT OF PLANNING AND ZONING

<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	10-3-14 DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	10-07-14 DATE
<i>[Signature]</i> DIRECTOR	10/14 DATE

DATE	NO.	REVISION


DEVELOPER
 THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER
 2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

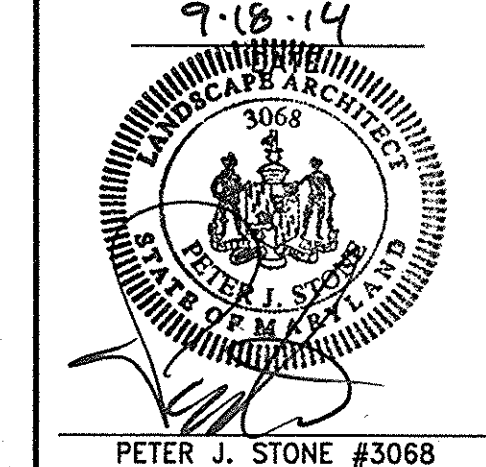
PROJECT
**NIXON SOLAR
 PHASE II
 (SOLAR FARM)**

AREA
 TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
**FOREST
 CONSERVATION PLAN**

Pennoni Associates Inc.
 Consulting Engineers

 8818 Centre Park Drive
 Suite 200
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY : JSN
 DRAWN BY: JSN
 PROJECT NO : BIEN1301
 DATE : SEPTEMBER 8, 2014
 SCALE : 1"=50'
 DRAWING NO. 17 OF 21



MATCH LINE SEE SHEET 18 OF 21

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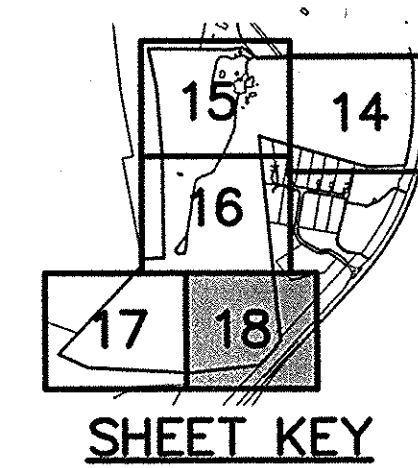
MATCH LINE SEE SHEET 16 OF 21

MATCH LINE SEE SHEET 17 OF 21



LEGEND

- PROPOSED PUBLIC FOREST CONSERVATION EASEMENT
- EXISTING MDSHA EASEMENT (SHA PLAT # 59050)
- PROPOSED PUBLIC FOREST CONSERVATION EASEMENT SIGN
- EX. 15-25% SLOPES
- EX. >25% SLOPES
- EX. STREAM
- EX. WETLANDS
- 25' WETLAND BUFFER
- EX. TREE
- EX. SPECIMEN TREE
- EX. PLANT COMMUNITY
- EX. HEDGEROW
- EX. WOODED AREA



APPROVED : DEPARTMENT OF PLANNING AND ZONING

<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	10-3-14 DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	10-27-14 DATE
<i>[Signature]</i> DIRECTOR	10/8/14 DATE

DATE NO.	REVISION
----------	----------

DEVELOPER

THE BITH GROUP
ATTN: RICARDO BETTS
113 WEST MONUMENT STREET
BALTIMORE, MD 21201
T: 410-962-1188

OWNER

2800 NIXONS FARM LANE, LLC
ATTN: GEORGE BROWN
17500 FREDERICK ROAD
MT AIRY, MD 21771
T: 410-461-7200

PROJECT

**NIXON SOLAR
PHASE II
(SOLAR FARM)**

AREA

TAX MAP 15, PARCEL 90 ZONED RC-DEO
GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

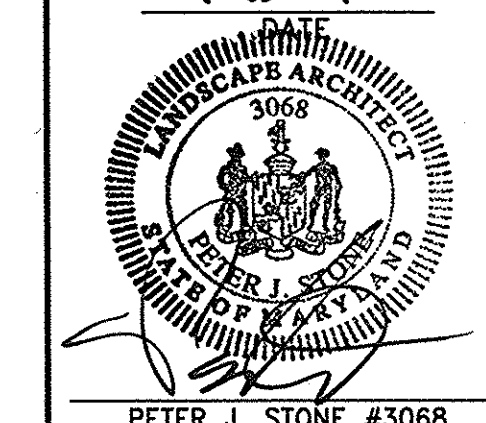
**FOREST
CONSERVATION PLAN**

Pennoni Associates Inc.
Consulting Engineers

8818 Centre Park Drive
Suite 200
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

7-19-14

DESIGNED BY : JSN
DRAWN BY : JSN
PROJECT NO : BIEN1301
DATE : SEPTEMBER 8, 2014
SCALE : 1"=50'
DRAWING NO. 18 OF 21



SDP-14-014

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SCHEDULE A - PERIMETER LANDSCAPE EDGE					
PERIMETER	ADJACENT TO PERIMETER PROPERTIES				
	1	2	3	4	5
LANDSCAPE TYPE	D	B	D	B	B
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	±2,470'	±1,011'	±1,390'	±1,949'	±426'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 591	YES 847	YES 1,134	YES 1,582	YES 401
CREDIT FOR WALL, FENCE, BERM OR DRIVE AISLE (YES/NO/LINEAR FEET)	NO	NO	NO	NO	NO
LINEAR FEET REMAINING	±1,879'	±164'	±256'	367'	25'
NUMBER OF PLANTS REQUIRED:					
SHADE TREES	32	4	5	8	1
EVERGREEN TREES	188	5	26	10	1
FLOWERING TREES	0	0	0	0	0
SHRUBS	0	0	0	0	0
NUMBER OF PLANTS PROVIDED:					
SHADE TREES	32	4	5	8	1
EVERGREEN TREES	188	5	26	10	1
FLOWERING TREES	0	0	0	0	0
SHRUBS	0	0	0	0	0

NOTE: THE LANDSCAPE BUFFERS SHOWN FOR SDP-14-014 WERE DETERMINED WITH BA-13-012C.

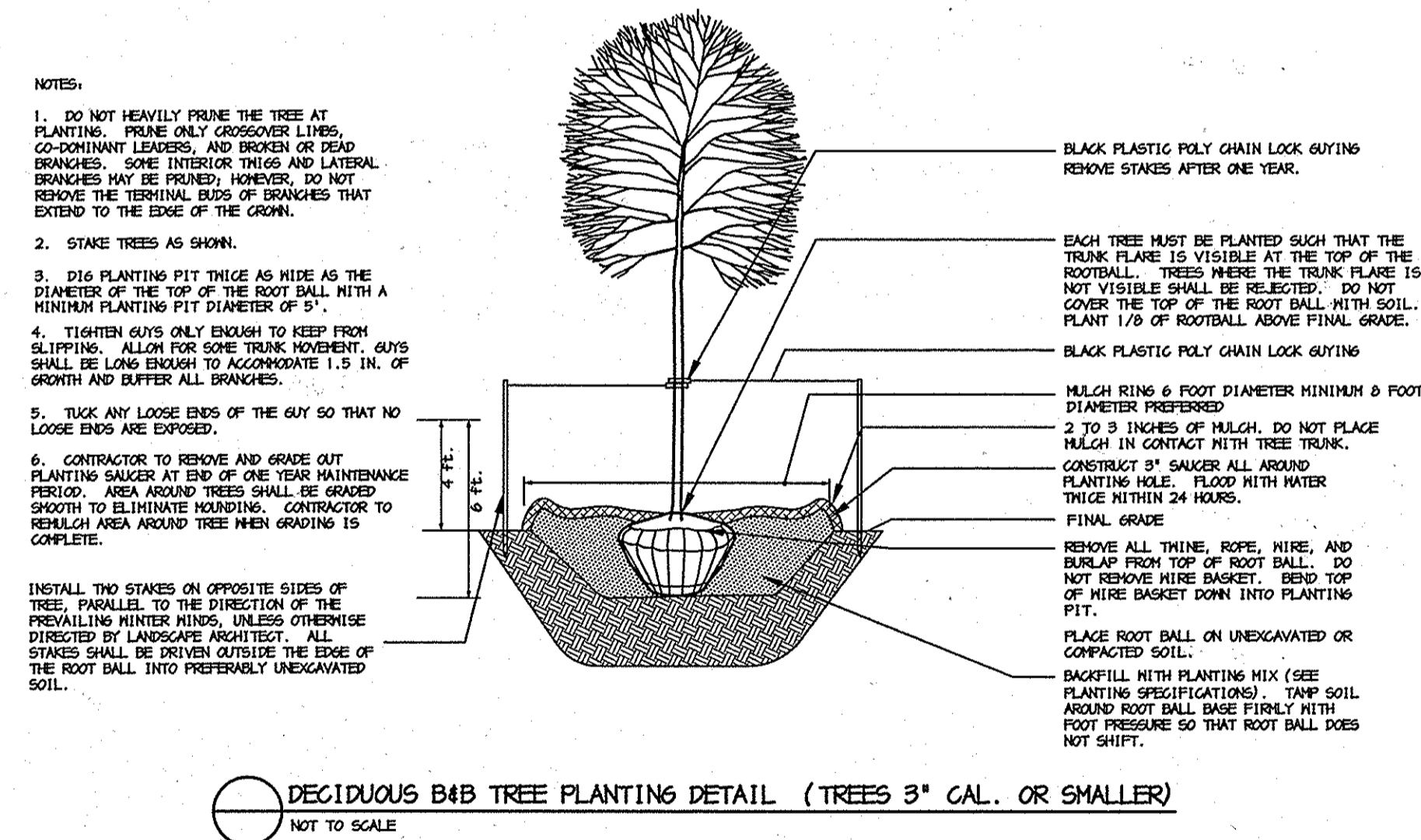
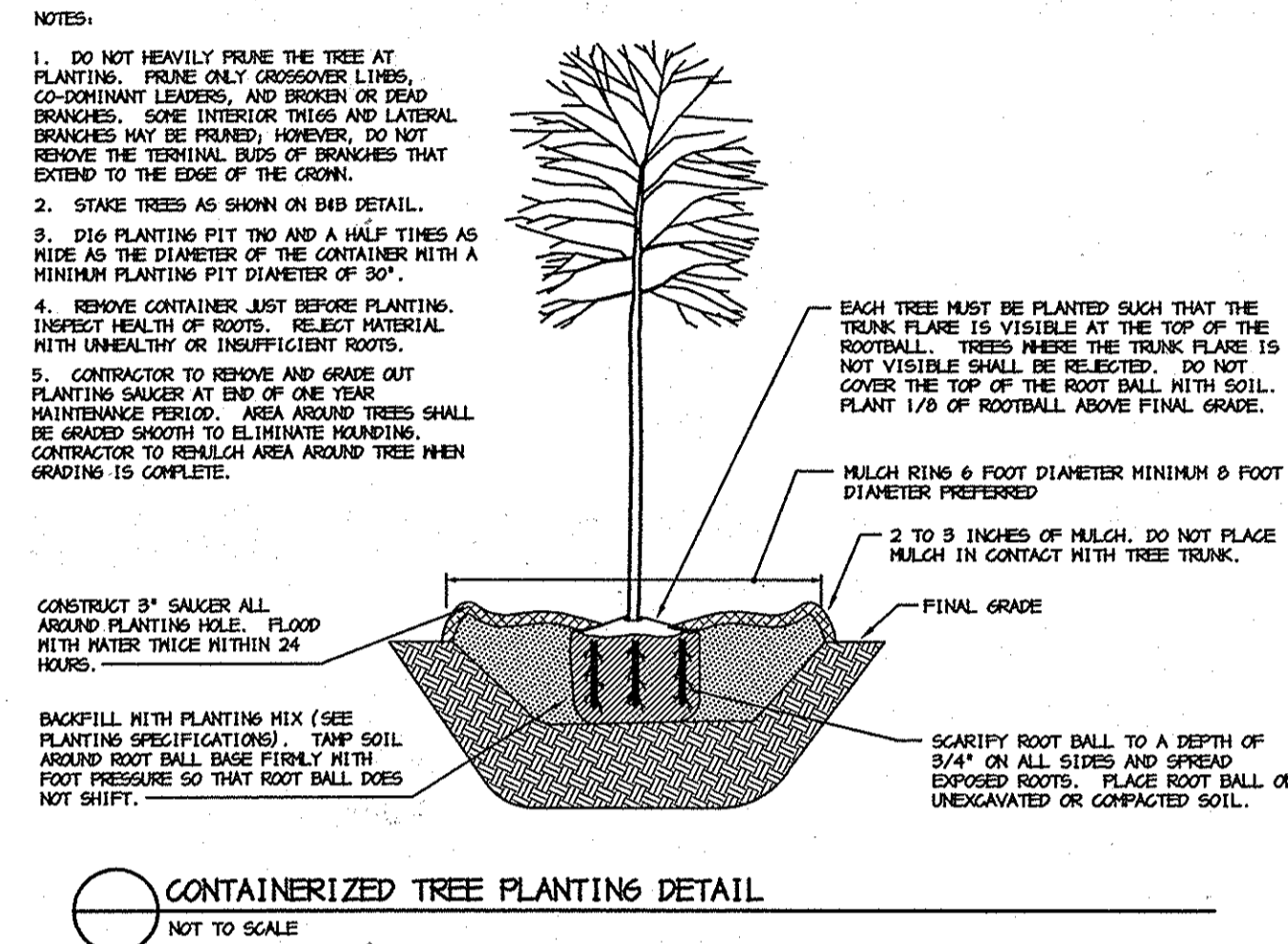
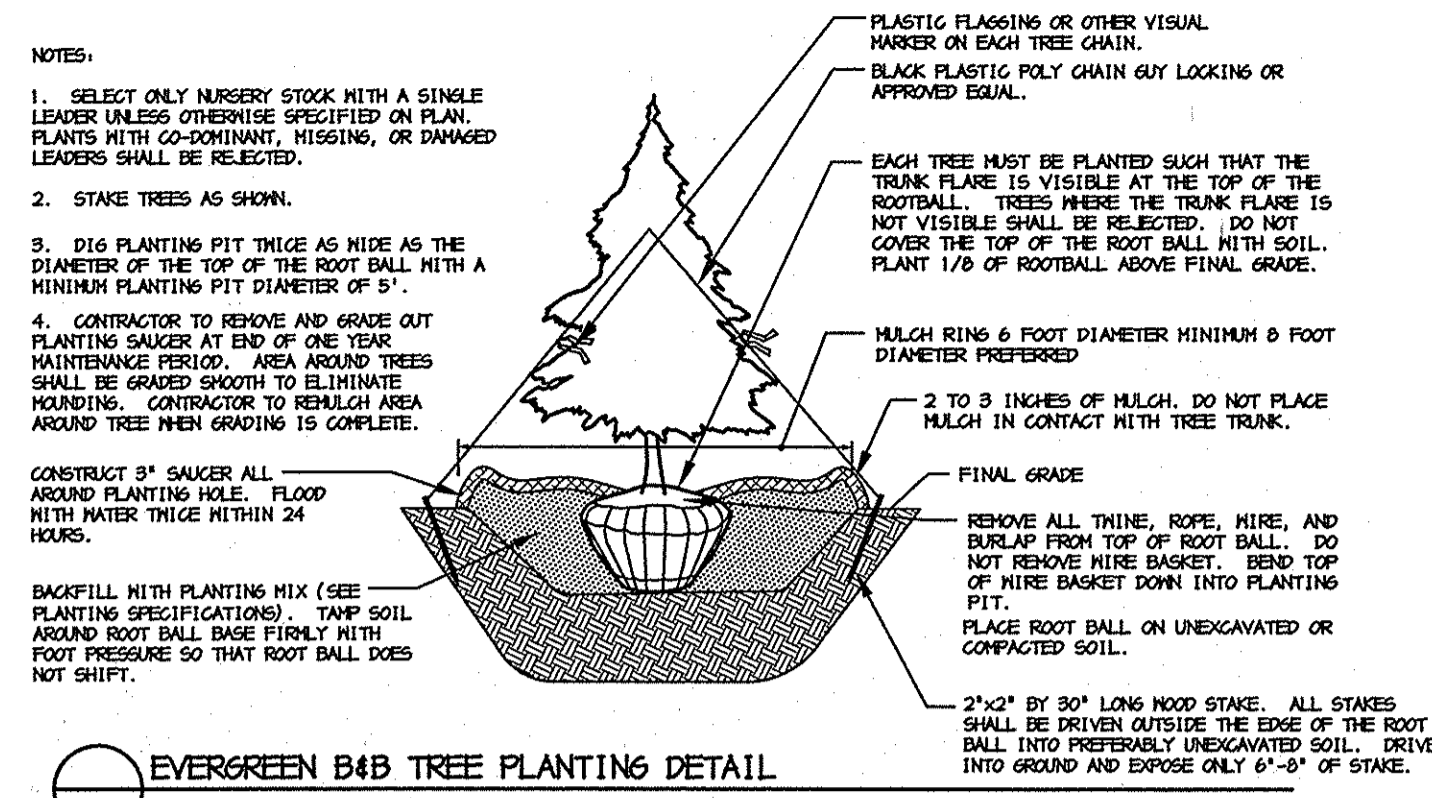
PERIMETER 1 PLANT SCHEDULE					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREES					
AC	16	ACER CAMPESTRE HEDGE MAPLE	2.5-3" CAL.	B&B	AS SHOWN
CC	8	CARPINUS CAROLINIANA AMERICAN HORNBEAM	2.5-3" CAL.	B&B	AS SHOWN
QP	5	QUERCUS PHELLOS WILLOW OAK	2.5-3" CAL.	B&B	AS SHOWN
EVERGREEN TREES					
IO	32	ILEX OPACA AMERICAN HOLLY	6-8" HT.	B&B	AS SHOWN
PF	34	PINUS FLEXILIS LIMBER PINE	6-8" HT.	B&B	AS SHOWN
PT	69	PINUS THUNBERGIANA JAPANESE BLACK PINE	6-8" HT.	B&B	AS SHOWN
SC	48	TSUGA CANADENSIS CANADIAN (EASTERN) HEMLOCK	6-8" HT.	B&B	AS SHOWN

PERIMETER 2 PLANT SCHEDULE					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREES					
FG	1	FAGUS GRANDIFOLIA AMERICAN BEECH	2.5-3" CAL.	B&B	AS SHOWN
PO	3	PLATANUS OCCIDENTALIS SYCAMORE	2.5-3" CAL.	B&B	AS SHOWN
EVERGREEN TREES					
PA	2	PICEA ABIES NORWAY SPRUCE	6-8" HT.	B&B	AS SHOWN
PS	1	PINUS STROBUS EASTERN WHITE PINE	6-8" HT.	B&B	AS SHOWN

PERIMETER 3 PLANT SCHEDULE					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREES					
AR	1	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2.5-3" CAL.	B&B	AS SHOWN
FG	2	FAGUS GRANDIFOLIA AMERICAN BEECH	2.5-3" CAL.	B&B	AS SHOWN
QP	2	QUERCUS PHELLOS WILLOW OAK	2.5-3" CAL.	B&B	AS SHOWN
EVERGREEN TREES					
IO	5	ILEX OPACA AMERICAN HOLLY	6-8" HT.	B&B	AS SHOWN
PA	10	PICEA ABIES NORWAY SPRUCE	6-8" HT.	B&B	AS SHOWN
PS	11	PINUS STROBUS EASTERN WHITE PINE	6-8" HT.	B&B	AS SHOWN

PERIMETER 4 PLANT SCHEDULE					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREES					
AR	3	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2.5-3" CAL.	B&B	AS SHOWN
PO	2	PLATANUS OCCIDENTALIS SYCAMORE	2.5-3" CAL.	B&B	AS SHOWN
QP	3	QUERCUS PHELLOS WILLOW OAK	2.5-3" CAL.	B&B	AS SHOWN
EVERGREEN TREES					
IO	2	ILEX OPACA AMERICAN HOLLY	6-8" HT.	B&B	AS SHOWN
PA	5	PICEA ABIES NORWAY SPRUCE	6-8" HT.	B&B	AS SHOWN
PS	3	PINUS STROBUS EASTERN WHITE PINE	6-8" HT.	B&B	AS SHOWN

PERIMETER 5 PLANT SCHEDULE					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREES					
AR	1	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2.5-3" CAL.	B&B	AS SHOWN
EVERGREEN TREES					
PS	1	PINUS STROBUS EASTERN WHITE PINE	6-8" HT.	B&B	AS SHOWN




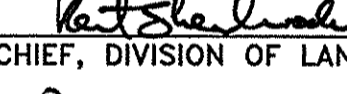

PLANTING SPECIFICATIONS

- PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION, AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN. WHERE DISCREPANCIES EXIST BETWEEN STANDARDS & GUIDELINES REFERENCED WITHIN THESE SPECIFICATIONS AND THE LANDSCAPE MANUAL OF THE APPLICABLE JURISDICTION, THE LATTER TAKES PRECEDENCE.
- ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, THAT IS NOT NURSERY GROWN, UNIFORMLY BRANCHED, DOES NOT HAVE A VIGOROUS ROOT SYSTEM, AND DOES NOT CONFORM TO THE MOST RECENT EDITION OF THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (ANLA) STANDARDS WILL BE REJECTED. PLANT MATERIAL THAT IS NOT HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUNSCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS WILL BE REJECTED. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL BE REJECTED. ALL B & B PLANTS SHALL BE FRESHLY DUG; NO HEALED-IN PLANTS OR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
- UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATIONS SHALL CONFORM TO THE MOST RECENT EDITION OF THE "LANDSCAPE SPECIFICATION GUIDELINES BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MD, DC, & VA", (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS.
- CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION ON THE LANDSCAPE GUIDELINES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING WATERING AND REPLACEMENT OF SPECIFIED PLANT MATERIAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL RELEVANT AND APPROPRIATE UTILITY COMPANIES, UTILITY CONTRACTORS, AND "MISS UTILITY" A MINIMUM OF 48 HOURS PRIOR TO THE BEGINNING OF ANY WORK. CONTRACTOR MAY MAKE MINOR ADJUSTMENTS IN SPACING AND LOCATION OF PLANT MATERIAL TO AVOID CONFLICTS WITH UTILITIES. MAJOR CHANGES WILL REQUIRE THE APPROVAL OF THE LANDSCAPE ARCHITECT. DAMAGE TO EXISTING STRUCTURE AND UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- PROTECTION OF EXISTING VEGETATION TO REMAIN SHALL BE ACCOMPLISHED VIA THE TEMPORARY INSTALLATION OF 4 FOOT HIGH SNOW FENCE AT THE DRIP LINE, SEE DETAIL.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIAL IN THE PROPER PLANTING SEASON FOR EACH PLANT TYPE. ALL PLANTING IS TO BE COMPLETED WITHIN GROWING SEASON OF COMPLETION OF SITE CONSTRUCTION. DO NOT PLANT PINUS STROBUS OR JAPANESE BLACK PINE LEVLANDI BETWEEN NOVEMBER 15 AND MARCH 15. LANDSCAPE PLANTS ARE NOT TO BE INSTALLED BEFORE SITE IS GRADED TO FINAL GRADE.
- CONTRACTOR TO REGRADE, FINE GRADE, SOD, HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED BY THEIR WORK.
- BID SHALL BE BASED ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM ACTUAL SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.
- PLANT QUANTITIES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN TAKE PRECEDENCE. WHERE DISCREPANCIES ON THE PLAN EXIST BETWEEN THE SYMBOLS AND THE CALLOUT LEADER, THE NUMBER OF SYMBOLS TAKE PRECEDENCE.
- ALL SHRUBS AND GROUNDCOVER AREAS SHALL BE PLANTED IN CONTINUOUS PLANTING BEDS, PREPARED AS SPECIFIED, UNLESS OTHERWISE INDICATED ON PLANS. (SEE SPECIFICATION 13). BEDS TO BE MULCHED WITH MINIMUM 2" AND MAXIMUM 3" OF COMPOSTED, DOUBLE-SHREDDED HARDWOOD MULCH THROUGHOUT.
- POSITIVE DRAINAGE SHALL BE MAINTAINED ON PLANTING BEDS (MINIMUM 2 PERCENT SLOPE).
- BED PREPARATION SHALL BE AS FOLLOWS: TILL INTO A MINIMUM DEPTH OF 6" 1 YARD OF COMPRO OR LEAFGRO PER 200 SF OF PLANTING BED, AND 1 YARD OF TOPSOIL PER 100 SF OF BED. ADD 3 LBS OF STANDARD 5-10-5 FERTILIZER PER CUBIC YARD OF PLANTING MIX AND TILL. ERICACEOUS PLANTS (AZALEAS, RHODODENDRONS, ETC.); TOP DRESS AFTER PLANTING WITH IRON SULFATE OR COMPARABLE PRODUCT ACCORDING TO PACKAGE DIRECTIONS. TAXUS BACCATA 'REPANDENS' (ENGLISH WEEPING YEW); TOP DRESS AFTER PLANTING WITH 1/4 TO 1/2 CUP LIME EACH.
- PLANTING MIX: FOR TREES NOT IN A PREPARED BED, MIX 50% COMPRO OR LEAFGRO WITH 50% SOIL FROM TREE HOLE TO USE AS BACKFILL, SEE TREE PLANTING DETAIL.
- WEED & INSECT CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL FOR TREE PLANTING, APPLY A PRE-EMERGENT ON TOP OF SOIL AND ROOT BALL BEFORE MULCHING. CAUTION: FOR AREAS TO BE PLANTED WITH A GROUND COVER, BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUNDCOVER TO BE TREATED. MAINTAIN THE MULCH WEED-FREE FOR THE EXTENT OF THE WARRANTY PERIOD. UNDER NO CIRCUMSTANCES IS A PESTICIDE CONTAINING GELICOPRESS TO BE USED AS A MEANS OF PEST CONTROL.
- WATER: ALL PLANT MATERIAL PLANTED SHALL BE WATERED THOROUGHLY THE DAY OF PLANTING. ALL PLANT MATERIAL NOT YET PLANTED SHALL BE PROPERLY PROTECTED FROM DRYING OUT UNTIL PLANTED. AT A MINIMUM, WATER UNPLANTED PLANT MATERIAL DAILY AND AS NECESSARY TO AVOID DESSICATION.
- PRUNING: DO NOT HEAVILY PRUNE TREES AND SHRUBS AT PLANTING. PRUNE ONLY BROKEN, DEAD, OR DISEASED BRANCHES.
- ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED, GRASS SEED PLANTED, AND COVERED WITH STRAW MULCH.

GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$49,500.00.
50 SHADE TREES @ \$300 = \$15,000.00
0 ORNAMENTAL TREES @ \$150 = \$0.00
230 EVERGREEN TREES @ \$150 = \$34,500.00
0 SHRUBS @ \$30 = \$0.00
BONDED LANDSCAPING INCLUDES REQUIRED LANDSCAPING PER THE LANDSCAPE MANUAL.
- THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY. ANY DEVIATION FROM THIS "LANDSCAPE PLAN" MAY RESULT IN A REQUIREMENT FOR SUBMITTAL OF AN OFFICIAL "REDLINE REVISION" TO THE SITE DEVELOPMENT PLAN(S) AND/OR DENIAL IN THE RELEASE OF LANDSCAPE SURETY.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE HOWARD COUNTY LANDSCAPE MANUAL.
- THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION AND WHEN NECESSARY, REPAIRED OR REPLACED.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

 10-2-14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
 10-07-14
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 10/10/14
 DIRECTOR DATE

DATE NO. REVISION

DEVELOPER
THE BITH GROUP
ATTN: RICARDO BETTS
113 WEST MONUMENT STREET
BALTIMORE, MD 21201
T: 410-962-1188


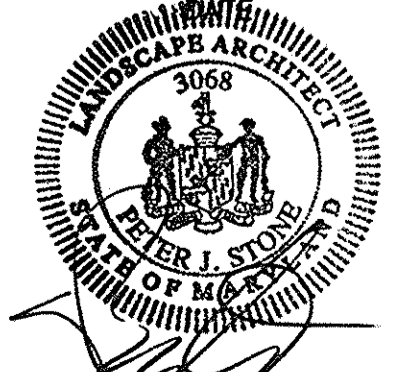
OWNER
2800 NIXONS FARM LANE, LLC
ATTN: GEORGE BROWN
17500 FREDERICK ROAD
MT AIRY, MD 21771
T: 410-461-7200

PROJECT
**NIXON SOLAR
PHASE II
(SOLAR FARM)**

AREA
TAX MAP 15, PARCEL 90 ZONED RC-DEO
GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
**LANDSCAPE NOTES
AND DETAILS**

Pennoni Associates Inc.
Consulting Engineers 8818 Centre Park Drive
Suite 200
Columbia, MD 21045
T 410.997.8900
F 410.997.9282


 9-18-14

 DESIGNED BY: JSN
 DRAWN BY: JSN
 PROJECT NO: B1EN1301
 DATE: SEPTEMBER 8, 2014
 SCALE: AS SHOWN
 DRAWING NO. 19 OF 21

DEVELOPER'S/BUILDER'S CERTIFICATE:

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

 09/18/2014
 SIGNATURE DATE

SPECIMEN TREE TABLE				
KEY	SPECIES	SIZE	CONDITION	REMAIN/REMOVE
1	SYCAMORE (Platanus occidentalis)	34"	GOOD	REMAIN
2	SYCAMORE (Platanus occidentalis)	30"	GOOD	REMAIN
3	SYCAMORE (Platanus occidentalis)	24"	GOOD	REMAIN
4	SYCAMORE (Platanus occidentalis)	40"	GOOD	REMAIN
5	SYCAMORE (Platanus occidentalis)	30"	GOOD	REMAIN
6	SYCAMORE (Platanus occidentalis)	30"	GOOD	REMAIN
7	BLACK LOCUST (Robinia pseudoacacia)	30"	GOOD	REMAIN
8	BLACK LOCUST (Robinia pseudoacacia)	40"	GOOD	REMAIN
9	WHITE PINE (Pinus strobus)	36"	GOOD	REMAIN
10	BLACK LOCUST (Robinia pseudoacacia)	30"	GOOD	REMAIN
11	SYCAMORE (Platanus occidentalis)	30"	GOOD	REMAIN
12	PIN OAK (Quercus palustris)	48"	POOR	REMAIN
13	WHITE OAK (Quercus alba)	31"	GOOD	REMAIN
14	WHITE OAK (Quercus alba)	31"	GOOD	REMAIN
15	WHITE OAK (Quercus alba)	32"	GOOD	REMAIN
16	WHITE OAK (Quercus alba)	39"	GOOD	REMAIN
17	SYCAMORE (Platanus occidentalis)	33"	GOOD	REMAIN
18	RED OAK (Quercus rubra)	67"	GOOD	REMAIN
19	SYCAMORE (Platanus occidentalis)	41"	GOOD	REMAIN
20	SYCAMORE (Platanus occidentalis)	32"	GOOD	REMAIN
21	TULIP POPLAR (Liriodendron tulipifera)	30"	GOOD	REMAIN
22	WHITE OAK (Quercus alba)	30"	GOOD	REMAIN
23	WHITE OAK (Quercus alba)	30"	GOOD	REMAIN
24	PIN OAK (Quercus palustris)	30"	POOR	REMAIN
25	SLIPPERY ELM (Ulmus rubra)	30"	POOR	REMAIN
26	WHITE OAK (Quercus alba)	48"	GOOD	REMAIN
27	WHITE OAK (Quercus alba)	30"	GOOD	REMAIN
28	RED OAK (Quercus rubra)	30"	POOR	REMAIN
29	WHITE OAK (Quercus alba)	30"	GOOD	REMAIN
30	WHITE OAK (Quercus alba)	38"	GOOD	REMAIN
31	WHITE OAK (Quercus alba)	40"	GOOD	REMAIN
32	WHITE OAK (Quercus alba)	32"	GOOD	REMAIN
33	WHITE OAK (Quercus alba)	32"	GOOD	REMAIN
34	WHITE OAK (Quercus alba)	35"	GOOD	REMAIN
35	WHITE OAK (Quercus alba)	38"	GOOD	REMAIN
36	RED OAK (Quercus rubra)	30"	GOOD	REMAIN
37	RED OAK (Quercus rubra)	30"	GOOD	REMAIN
38	RED OAK (Quercus rubra)	32"	GOOD	REMAIN
39	RED OAK (Quercus rubra)	31"	GOOD	REMAIN
40	RED OAK (Quercus rubra)	31"	GOOD	REMAIN
41	WHITE OAK (Quercus alba)	23"	GOOD	REMAIN
42	WHITE OAK (Quercus alba)	42"	GOOD	REMAIN
43	WHITE OAK (Quercus alba)	54"	POOR	REMAIN
44	WHITE OAK (Quercus alba)	44"	POOR	REMAIN
45	RED OAK (Quercus rubra)	42"	POOR	REMAIN
46	RED OAK (Quercus rubra)	31"	GOOD	REMAIN
47	BLACK CHERRY (Prunus serotina)	31"	GOOD	REMAIN
48	SHELLBARK HICKORY (Carya laevis)	64"	GOOD	REMAIN
49	BLACK CHERRY (Prunus serotina)	33"	GOOD	REMAIN
50	SYCAMORE (Platanus occidentalis)	40"	GOOD	REMAIN
51	RED MAPLE (Acer rubrum)	38"	GOOD	REMAIN
52	RED MAPLE (Acer rubrum)	36"	GOOD	REMAIN
53	RED MAPLE (Acer rubrum)	34"	GOOD	REMAIN
54	RED MAPLE (Acer rubrum)	34"	GOOD	REMAIN
55	RED MAPLE (Acer rubrum)	31"	GOOD	REMAIN
56	SYCAMORE (Platanus occidentalis)	34"	GOOD	REMAIN
57	BLACK LOCUST (Robinia pseudoacacia)	30"	GOOD	REMAIN

Howard County Forest Conservation Worksheet

Project Name: Nixon Solar Phase II
 County File #: SDP-14-014
 Date: March 3, 2014

Net Tract Area

A. Total Tract Area	A = 109.82
B. Floodplain Area	B = 31.01
C. Existing MDSA Easement Area	C = 36.43
D. Net Tract Area (Net Tract Area = (A-B-C))	D = 42.38

Land Use Category:

D. Afforestation Threshold (Net Tract Area X 15%)	E = 6.36
E. Conservation Threshold (Net Tract Area X 15%)	F = 6.36

Existing Forest Cover

F. Existing Forest Cover within the Net Tract Area	G = 6.79
G. Area of Forest Above Conservation Threshold	H = 0.43

Break Even Point

H. Break Even (Amount of forest that must be retained so that no mitigation is required)
 (1) If the area of forest above the Conservation Threshold (G) is greater than zero, then
 $H = (0.2 \times \text{the area of forest above Conservation Threshold (G)}) + \text{the Conservation Threshold (E)}$
 (2) If the area of forest above the Conservation Threshold (G) is equal to zero, then
 $H = \text{Existing Forest Cover (F)}$

I. Forest Clearing Permitted Without Mitigation	I = 6.44
---	----------

J. Existing Forest Cover (F) - Break Even Point (H)
 $J = 0.35$

K. Total Area of Forest to be Cleared	K = 0.00
L. Total Area of Forest to be Retained	L = 6.79

M. Existing Forest Cover (F) - forest to be cleared (J)
 $M = 0.00$

N. Existing Forest Cover (F) - forest to be retained (L)
 $N = 0.00$

O. Existing Forest Cover (F) - forest to be retained (L)
 $O = 0.43$

P. Existing Forest Cover (F) - forest to be retained (L)
 $P = 0.00$

Q. Existing Forest Cover (F) - forest to be retained (L)
 $Q = 0.00$

R. Existing Forest Cover (F) - forest to be retained (L)
 $R = 0.00$

S. Existing Forest Cover (F) - forest to be retained (L)
 $S = 0.00$

T. Existing Forest Cover (F) - forest to be retained (L)
 $T = 0.00$

U. Existing Forest Cover (F) - forest to be retained (L)
 $U = 0.00$

V. Existing Forest Cover (F) - forest to be retained (L)
 $V = 0.00$

W. Existing Forest Cover (F) - forest to be retained (L)
 $W = 0.00$

X. Existing Forest Cover (F) - forest to be retained (L)
 $X = 0.00$

Y. Existing Forest Cover (F) - forest to be retained (L)
 $Y = 0.00$

Z. Existing Forest Cover (F) - forest to be retained (L)
 $Z = 0.00$

FOREST AREA SUMMARY TABLE	
AREA	ACRES
TOTAL TRACT AREA	109.82 ACRES
EXISTING FOREST COVER	6.79 ACRES
TOTAL AREA OF FOREST TO BE CLEARED	0.00 ACRES
FOREST TO BE RETAINED	6.79 ACRES
REQUIRED REFORESTATION	0.00 ACRES
REFORESTATION PROVIDED	0.00 ACRES

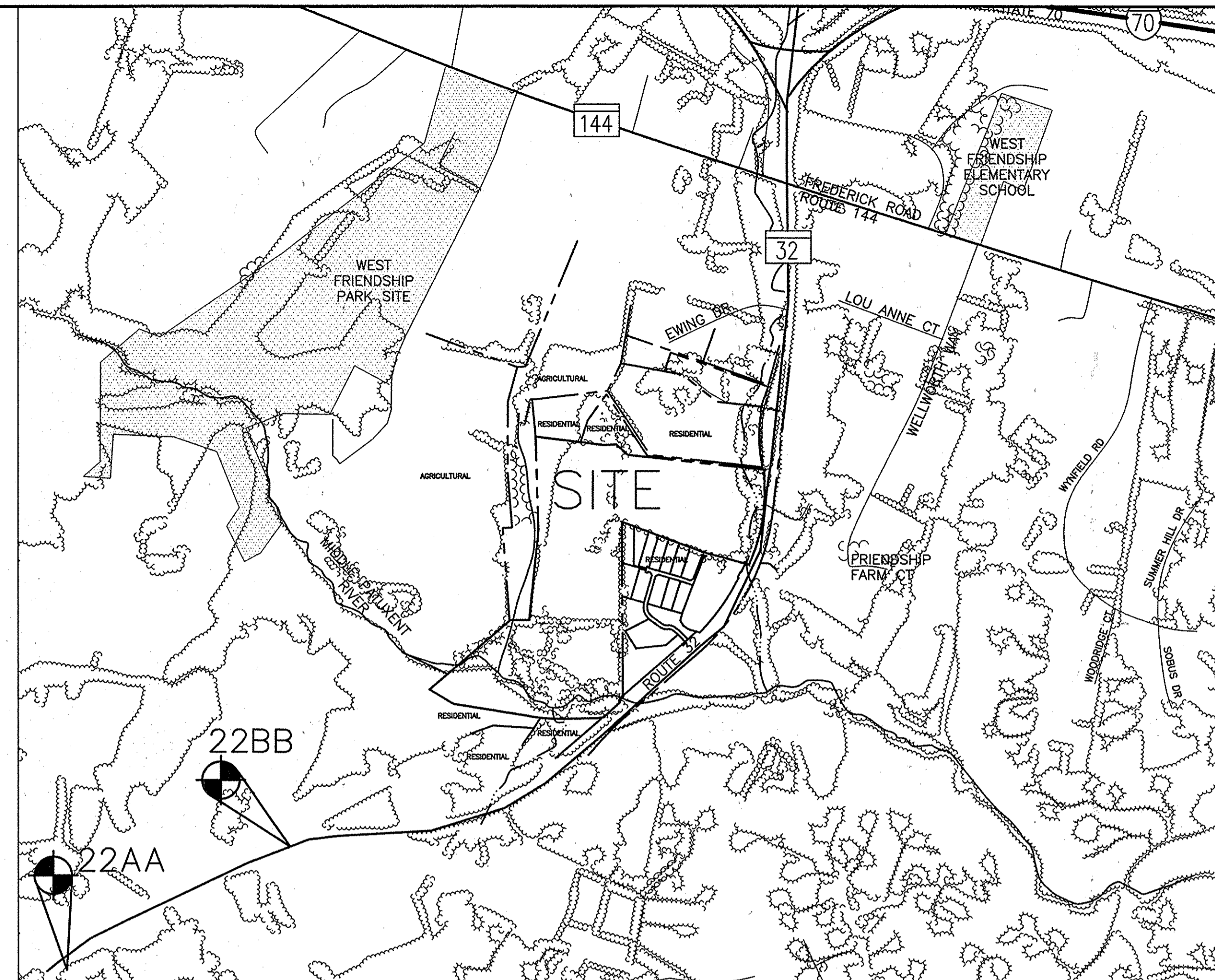
FOREST CONSERVATION EASEMENT TABLE				
CONSERVATION TYPE	AREA	ACRES CREDITED	ACRES NON-CREDITED	ACRES TOTAL
1. ON-SITE RETENTION				
A	0.38 ACRES	2.03 ACRES		2.41 ACRES
B	4.22 ACRES	0.00 ACRES		4.22 ACRES
C	0.32 ACRES	0.04 ACRES		0.36 ACRES
D	1.87 ACRES	0.00 ACRES		1.87 ACRES
TOTAL AMOUNT OF CONSERVATION	6.79 ACRES	2.07 ACRES	8.86 ACRES	

SOILS TABLE						
MAP SYMBOL	NAME	STRUCTURAL LIMITATIONS DWELLINGS WITH BASEMENTS	EROSION HAZARD	HYDRIC	SLOPE (%)	SOIL GROUP
BaA	BAILE SILT LOAM	VERY LIMITED	LOW	YES	0-3%	D
Co	CODORUS AND HATBORO SILT LOAM	VERY LIMITED	LOW	YES	0-3%	C & D
GgA	GLENELG LOAM	NOT LIMITED	LOW	NO	0-3%	B
GgB	GLENELG LOAM	NOT LIMITED	MODERATE	NO	3-8%	B
GgC	GLENELG LOAM	SOMEWHAT LIMITED	MODERATE	NO	8-15%	B
GmB	GLENVILLE SILT LOAM	VERY LIMITED	MODERATE	NO	3-8%	C
GnB	GLENVILLE-BAILE SILT LOAMS	VERY LIMITED	MODERATE	YES	0-8%	C
GnB	GLENVILLE-CODORUS SILT LOAMS	VERY LIMITED	MODERATE	NO	0-8%	C
Ha	HATBORO-CODORUS SILT LOAMS	VERY LIMITED	LOW	YES	0-3%	D
MaB	MANOR LOAM	NOT LIMITED	MODERATE	NO	3-8%	B
MaC	MANOR LOAM	SOMEWHAT LIMITED	MODERATE	NO	8-15%	B
MaD	MANOR LOAM	VERY LIMITED	HIGH	NO	15-25%	B
MkF	MANOR-BRINKLOW COMPLEX	VERY LIMITED	HIGH	NO	25-65%	B

SOURCE: NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY

GENERAL NOTES

- BOUNDARY INFORMATION HAS BEEN PROVIDED BY PATTON HARRIS RUST AND ASSOCIATES INC. TOPOGRAPHY INFORMATION PROVIDED BY AVAILABLE HOWARD COUNTY RECORDS AND AN AERIAL SURVEY. PREPARED BY VIRGINIA RESOURCE MAPPING INC. DATED JANUARY 2005.
- NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
- NO TREES, SHRUBS, OR PLANTS IDENTIFIED AS RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
- THERE ARE NO KNOWN CEMETERIES OR BURIAL PLOTS LOCATED ON THE SITE, ACCORDING TO THE HOWARD COUNTY CEMETERIES INVENTORY.
- ELEVEN (11) EXISTING BUILDINGS OF VARIOUS SIZES AND USES ARE PRESENT ON THE SITE.
- THE FOLLOWING SOILS ARE PRESENT ON THE SITE: BAILE SILT LOAM (0-3% SLOPES)-BAA, CODORUS AND HATBORO SILT LOAM (0-3% SLOPES)-CO, GLENELG LOAM (0-3% SLOPES)-GA, GLENELG LOAM (3-8% SLOPES)-GB, GLENELG LOAM (8-15% SLOPES)-GC, GLENVILLE SILT LOAM (3-8% SLOPES)-GMB, GLENVILLE-BAILE SILT LOAMS (0-8% SLOPES)-GNB, GLENVILLE-CODORUS SILT LOAMS (0-8% SLOPES)-GOB, HATBORO-CODORUS SILT LOAMS (0-3% SLOPES)-HA, MANOR LOAM (3-8% SLOPES)-MAB, MANOR LOAM (8-15% SLOPES)-MAC, MANOR LOAM (15-25% SLOPES)-MAD, AND MANOR-BRINKLOW COMPLEX (25-65% SLOPES)-MKF ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.
- THE FOREST STAND DELINEATION (FSD), DATED JULY 2013 HAS BEEN PREPARED BY PENNONI ASSOCIATES.
- THE HOWARD COUNTY FOREST CONSERVATION MANUAL SUPERCEDES ANY DISCREPANCIES BETWEEN THE MANUAL AND THESE PLANS.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY PRESERVING 8.86 ACRES OF FOREST (6.79 ACRES OF CREDITED ON-SITE RETENTION AND 2.07 ACRES OF NON-CREDITED ON-SITE RETENTION) AND BY EXCEEDING THE BREAK-EVEN POINT OF 6.44 ACRES. NO FOREST CONSERVATION SURETY IS REQUIRED.
- ALL NON-CREDITED FOREST CONSERVATION EASEMENT AREAS ARE LOCATED WITHIN THE FLOODPLAIN.
- THE FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- THE BOUNDARY OF THE PROPOSED FOREST CONSERVATION EASEMENTS ARE IDENTIFIED ON FINAL PLAT SDP-14-014FC WITH BEARINGS AND DISTANCES UNDER PLAT NO.'S 22955-22957.
- JUSTIFICATION FOR FOREST RETENTION: FOREST RETENTION AREAS HAVE BEEN ESTABLISHED OVER AREAS OF CONTIGUOUS, MATURE FORESTED AREAS. THE MAJORITY OF THESE FOREST AREAS ARE LOCATED IN PRIORITY RETENTION AREAS SUCH AS STREAM BUFFERS AND FLOODPLAINS.



VICINITY MAP

SCALE: 1"=1000'
 COPYRIGHT ADC THE MAP PEOPLE
 ADC MAP 18 GRIDS 4B, 4C, 5A, & 5B,
 PERMITTED USE NO. 20894285

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division 10-3-14
 Chief, Division of Land Development 10-02-14
 Director 10/02/14

DATE NO. REVISION

DEVELOPER

THE BITH GROUP
 ATTN: RICARDO BETTS
 113 WEST MONUMENT STREET
 BALTIMORE, MD 21201
 T: 410-962-1188

OWNER

2800 NIXONS FARM LANE, LLC
 ATTN: GEORGE BROWN
 17500 FREDERICK ROAD
 MT AIRY, MD 21771
 T: 410-461-7200

PROJECT

NIXON SOLAR PHASE II (SOLAR FARM)

AREA

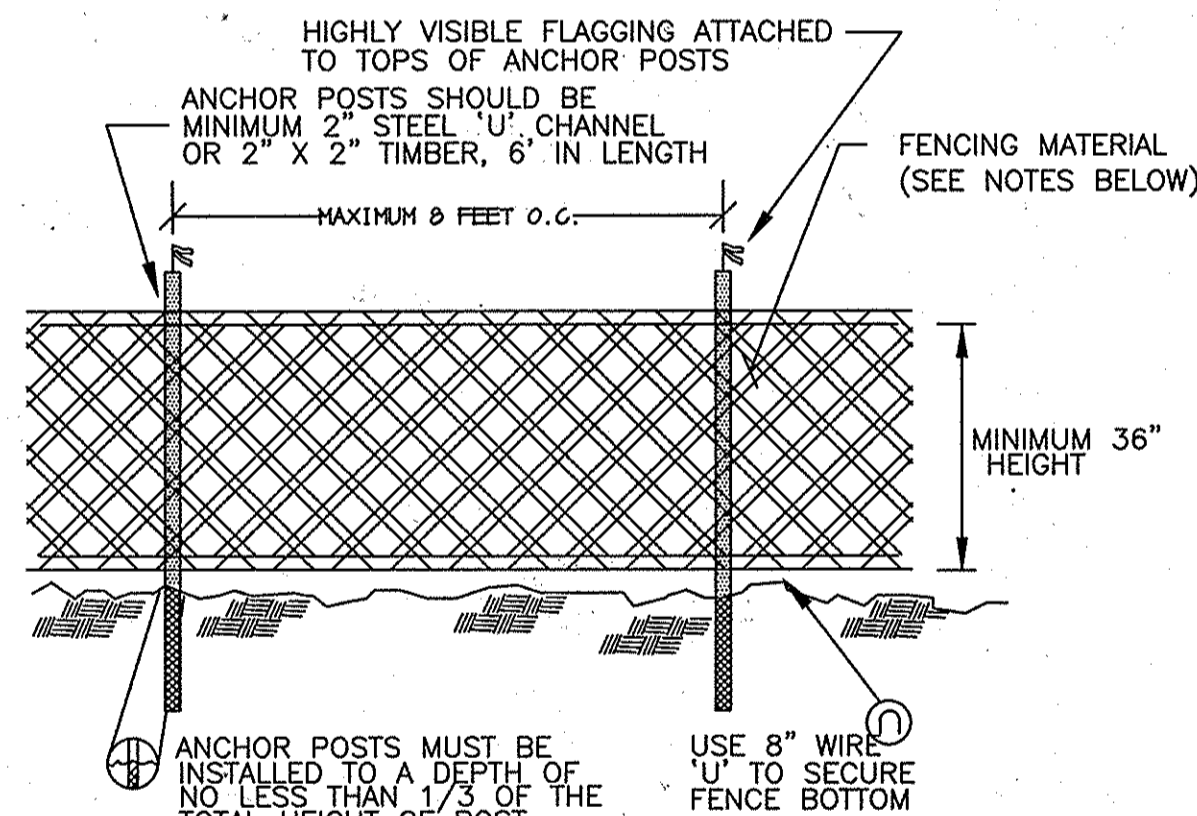
TAX MAP 15, PARCEL 90 ZONED RC-DEO
 GRID NO.S 16, 17, AND 22 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE

FOREST CONSERVATION NOTES AND DETAILS

Pennoni Associates Inc. Consulting Engineers 8818 Centre Park Drive Suite 200 Columbia, MD 21045 T 410.997.8900 F 410.997.9282

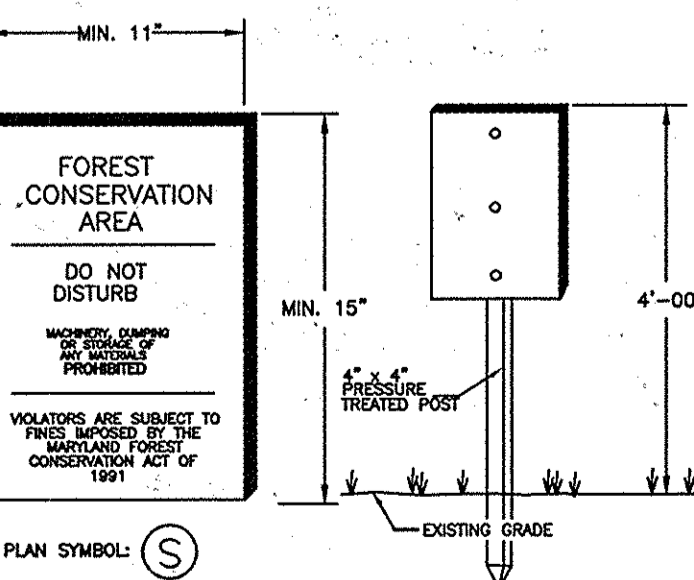
DESIGNED BY: JSN
 DRAWN BY: JSN
 PROJECT NO: B1EN1301
 DATE: SEPTEMBER 8, 2014
 SCALE: AS SHOWN
 DRAWING NO. 20 OF 21



NOTES:
 BLAZE ORANGE MESH OR SUPER SILT FENCE FOR TREE PROTECTION DEVICE, ONLY. BOUNDARIES OF PROTECTION AREA WILL BE ESTABLISHED PRIOR TO GRADING AND SEDIMENT CONTROL.
 AVOID DAMAGE TO CRITICAL ROOT ZONE. DO NOT DAMAGE OR SEVER LARGE ROOTS WHEN INSTALLING POSTS.
 FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCING

NOT TO SCALE



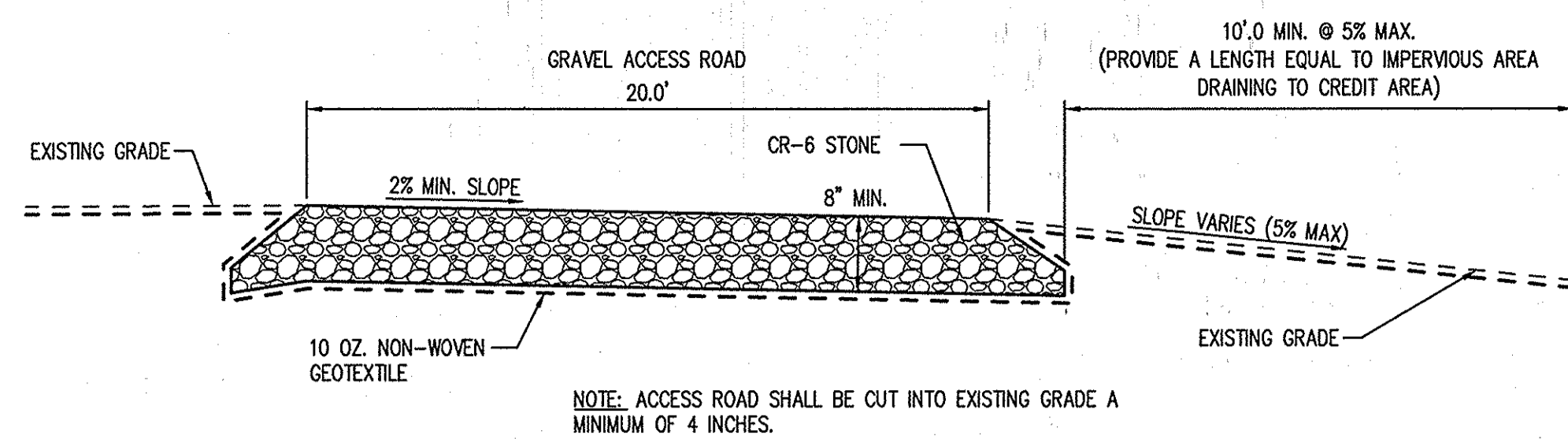
NOTES:
 1. SIGNAGE SHALL BE LOCATED ON FOREST CONSERVATION / REFORESTATION / AFFORESTATION EASEMENT BORDER.
 2. SEE PLAN FOR SPACING.
 3. SIGNAGE WILL REMAIN IN PLACE IN PERPETUITY.

FOREST CONSERVATION & REFORESTATION SIGN DETAIL

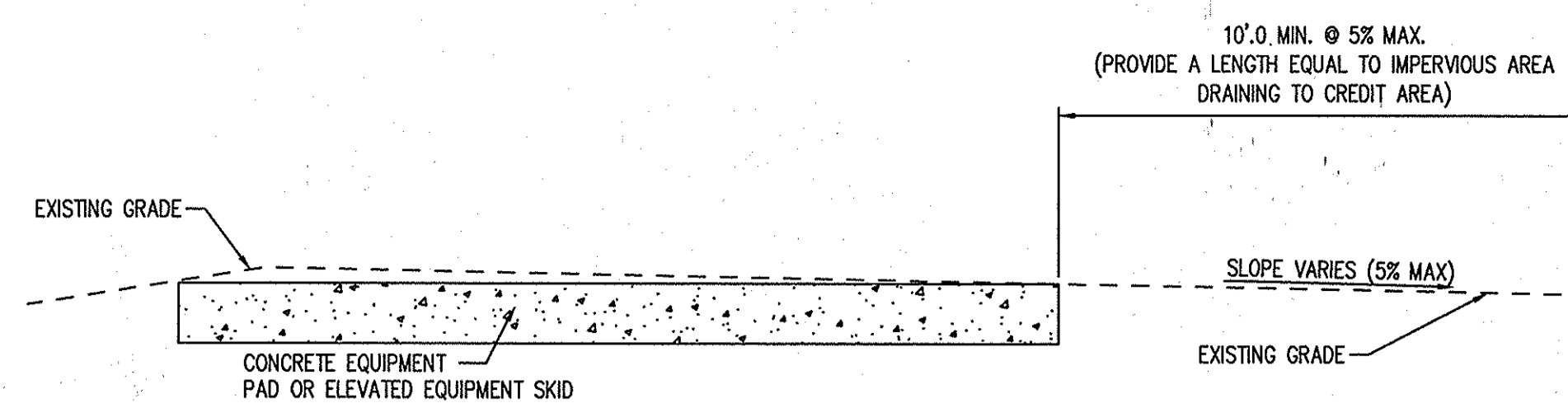
NOT TO SCALE

PLANT COMMUNITY SUMMARY TABLE			
SYMBOL	COMMUNITY	AREA	PRIORITY RETENTION
F1	FOREST	2.43 Ac.±	MEDIUM
F2	FOREST	4.40 Ac.±	HIGH
F3	FOREST	19.64 Ac.±	HIGH

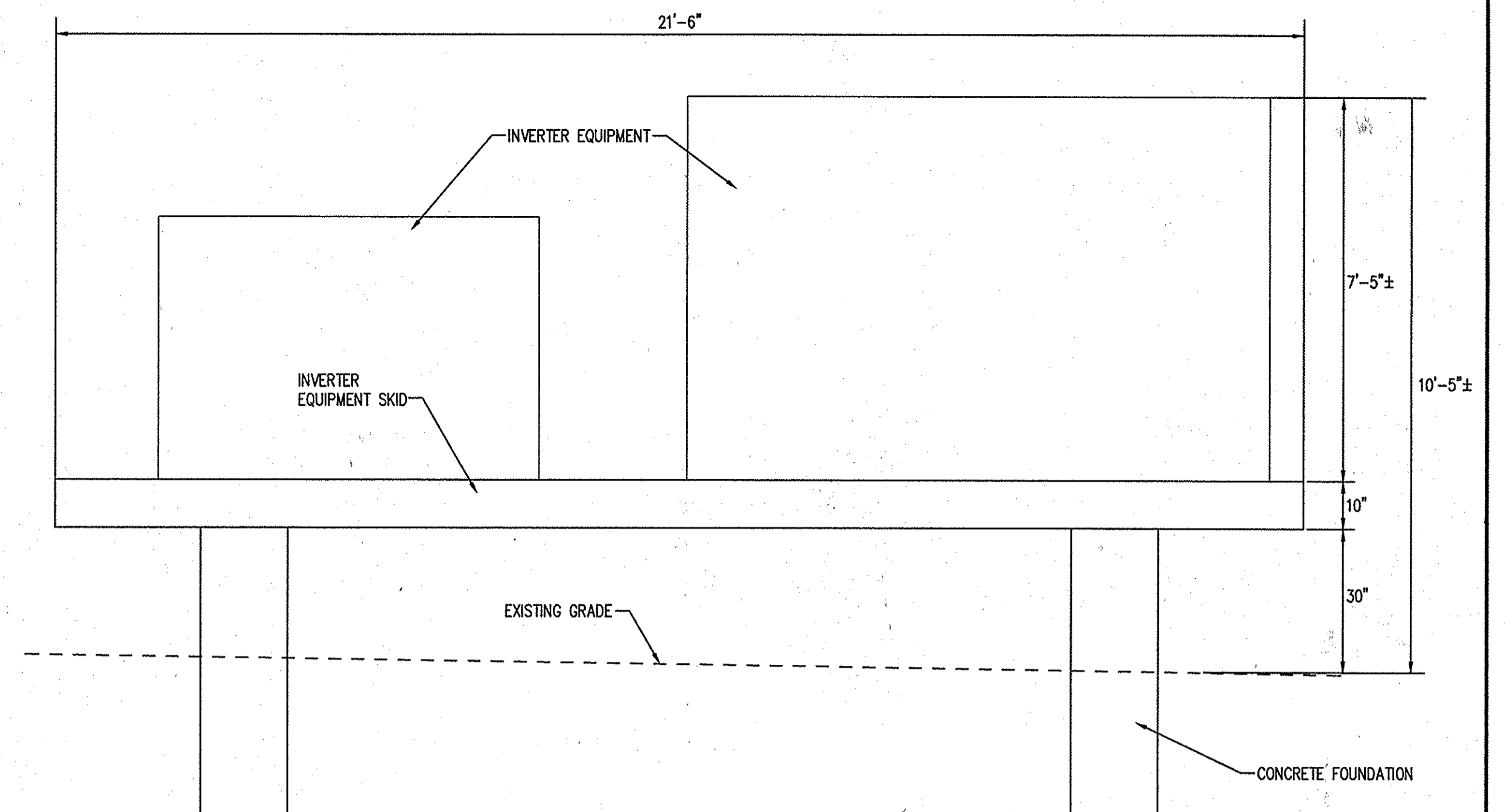
AREA TABLE	
AREA	ACRES
TOTAL TRACT AREA	109.82
EXISTING FOREST	26.47
LAND WITHIN STREAM BUFFERS	20.53
LAND WITHIN WETLANDS & WETLAND BUFFERS	24.30
LAND WITHIN FLOODPLAIN	31.01
FOREST WITHIN STREAM BUFFERS	15.37
FOREST WITHIN WETLANDS	8.04
FOREST WITHIN FLOODPLAIN	19.60



1
21 NON-ROOFTOP DISCONNECTION DETAIL - ROAD
NOT TO SCALE



2
21 NON-ROOFTOP DISCONNECTION DETAIL - PAD
NOT TO SCALE



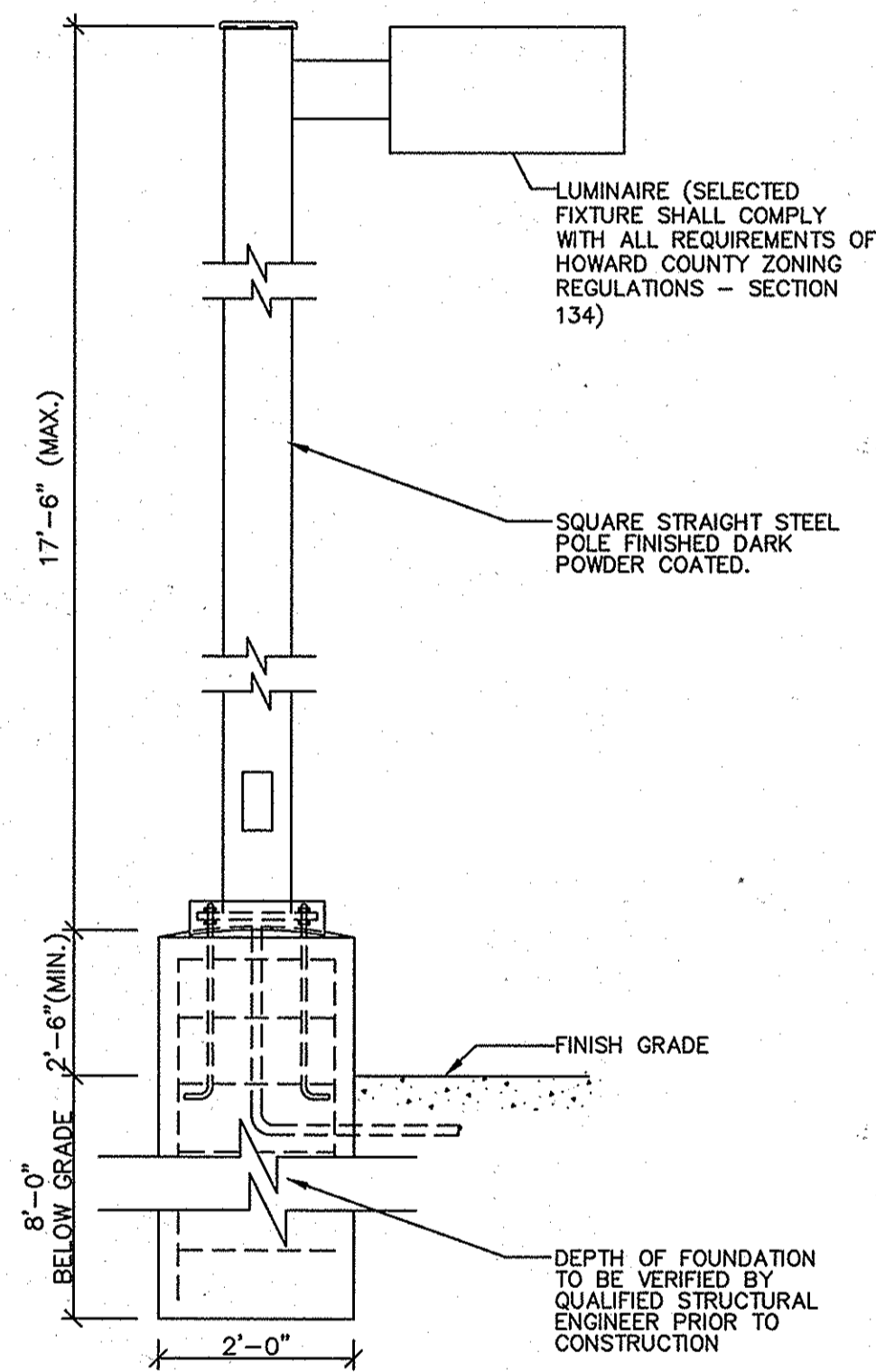
3
21 TYPICAL INVERTER ELEVATION
NOT TO SCALE

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

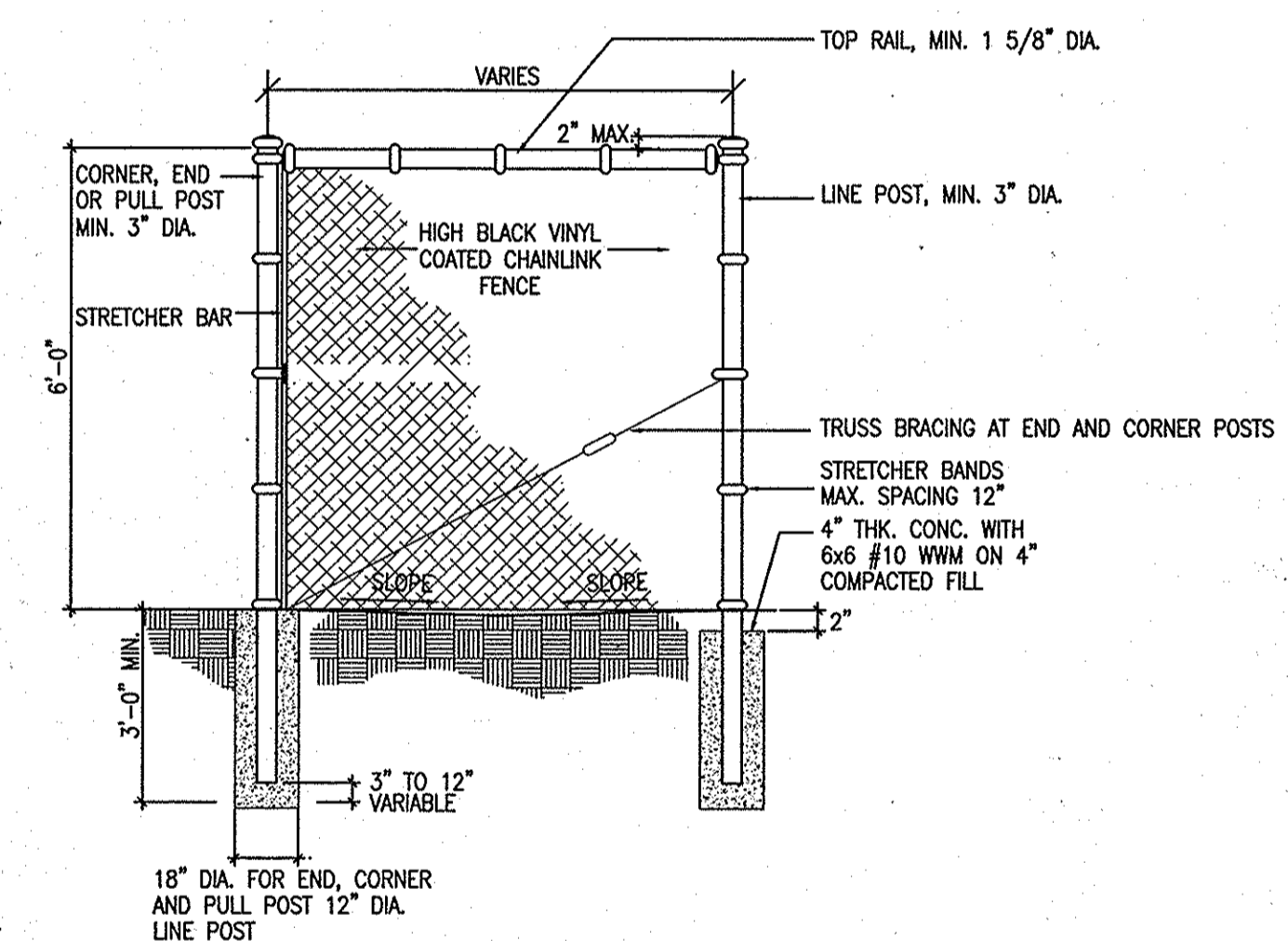
MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED SHEETFLOW TO CONSERVATION AREA (N-3)

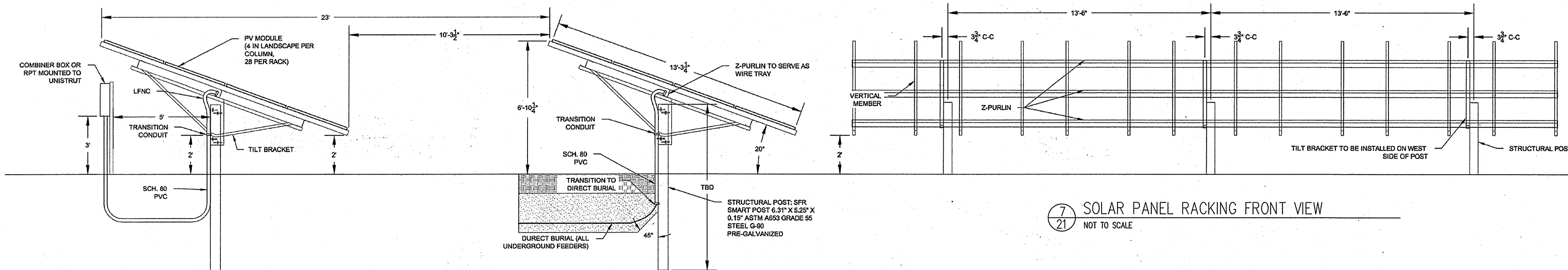
CONSERVATION AREAS SHALL REMAIN UNDISTURBED AND UNMANAGED OTHER THAN ROUTINE DEBRIS REMOVAL AND REPAIRING AREAS OF CONCENTRATED FLOW. INVASIVE AND NOXIOUS PLANT REMOVAL AND BI-ANNUAL MOWING FOR MEADOW AREAS MAY BE NEEDED. SIGNS DELINEATING THE LIMITS OF THE CONSERVATION AREA SHOULD BE MAINTAINED AND SUPPLEMENTAL PLANTINGS PERFORMED AS NEEDED.



4
21 LIGHTING STANDARD ELEVATION
NOT TO SCALE



5
21 TYPICAL CHAIN LINK FENCE
NOT TO SCALE



7
21 SOLAR PANEL RACKING FRONT VIEW
NOT TO SCALE

6
21 SOLAR PANEL RACKING SIDE VIEW
NOT TO SCALE

APPROVED : DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	10-3-14
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	10-07-14
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>[Signature]</i>	10/1/14
DIRECTOR	DATE
DATE NO.	REVISION
DEVELOPER	
THE BITH GROUP ATTN: RICARDO BETTS 113 WEST MONUMENT STREET BALTIMORE, MD 21201 T: 410-962-1188	
OWNER	
2800 NIXONS FARM LANE, LLC ATTN: GEORGE BROWN 17500 FREDERICK ROAD MT AIRY, MD 21771 T: 410-461-7200	
PROJECT	
NIXON SOLAR PHASE II (SOLAR FARM)	
AREA	
TAX MAP 15, PARCEL 90 ZONED RC-DEO GRID NOS 16, 17, AND 22 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
SITE DETAILS	
Pennoni Associates Inc. Consulting Engineers	8818 Centre Park Drive Suite 200 Columbia, MD 21045 T 410.997.8900 F 410.997.9282
SEAL	
DESIGNED BY : JSN	
DRAWN BY : JSN	
PROJECT NO : BIEN1301	
DATE : SEPTEMBER 8, 2014	
SCALE : AS SHOWN	
DRAWING NO. 21 OF 21	