

MINOR SITE PLAN

OF

SOLAR CANOPY SYSTEM ARRAY

FOR

SAFARI ENERGY

BLOCK 701, LOTS 10 AND 11

PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

OWNER:
NUVEEN
 600 COLLEGE ROAD EAST
 PRINCETON, NJ 08540

APPLICANT:
SAFARI ENERGY
 1407 BROADWAY, 24TH FLOOR
 NEW YORK, NEW YORK 10018

ATTORNEY:
STEVENS & LEE
 100 LENOX DRIVE, SUITE 200
 LAWRENCEVILLE, NEW JERSEY 08648

ENGINEER/SURVEYOR:
VAN NOTE-HARVEY ASSOCIATES, PC.
 777 ALEXANDER ROAD,
 PRINCETON, NEW JERSEY 08543-3227

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SOLAR PLANS	
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6100	SITE PLAN
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MINOR SITE PLAN
 - APPROVED BY:

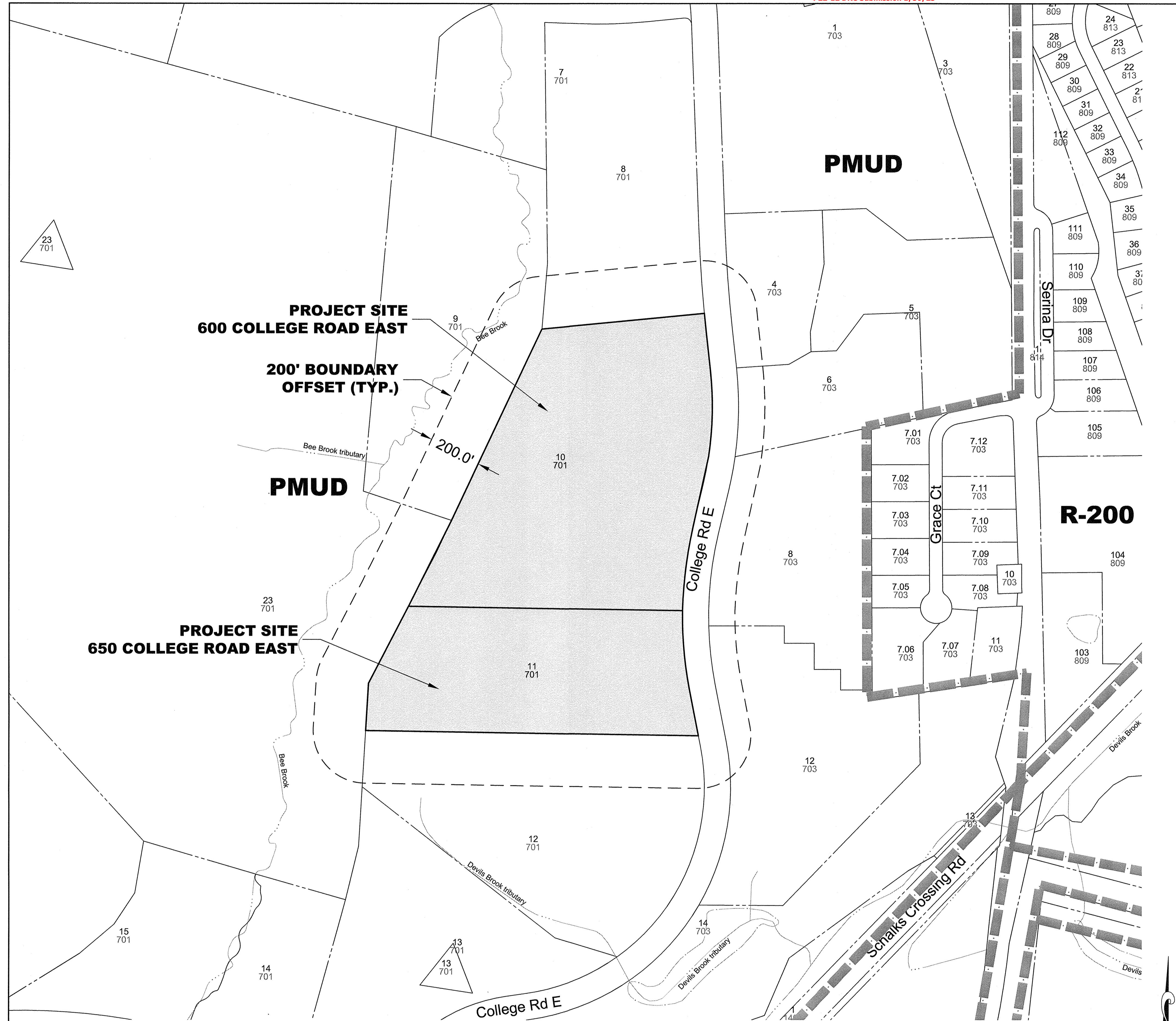
PLANNING BOARD CHAIRMAN

PLANNING BOARD SECRETARY

CVR

APPLICATION NUMBER:

N:\P\45582\DWG\45582-600-650-CVR.DWG



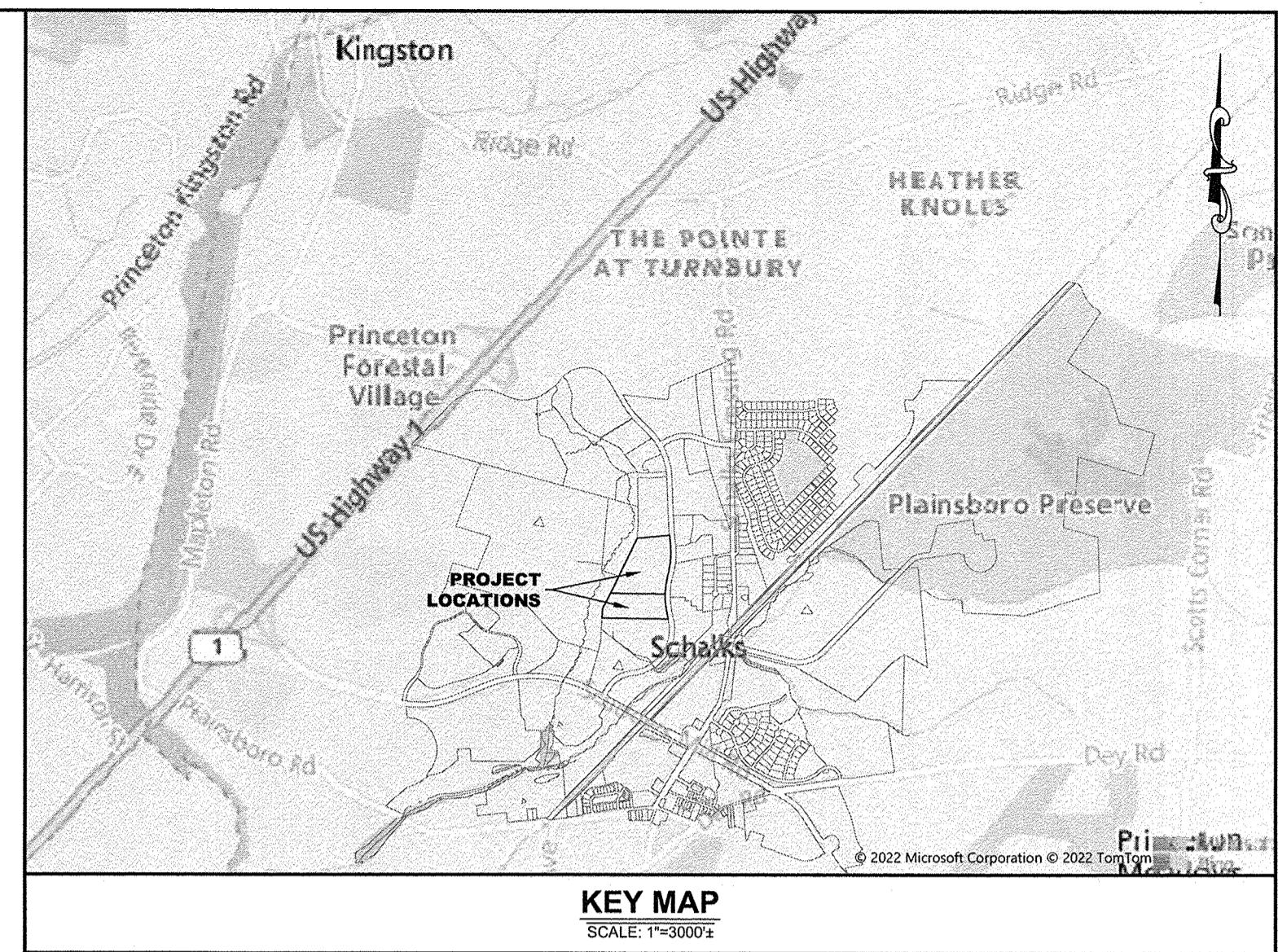
PLAINSBORO TOWNSHIP ZONING DISTRICTS

I-100 LIMITED INDUSTRIAL
 PMUD PLANNED UNIT DEVELOPMENT
 R-300 LOW DENSITY RESIDENTIAL
 R-350 LOW DENSITY RESIDENTIAL

PLAINSBORO TOWNSHIP

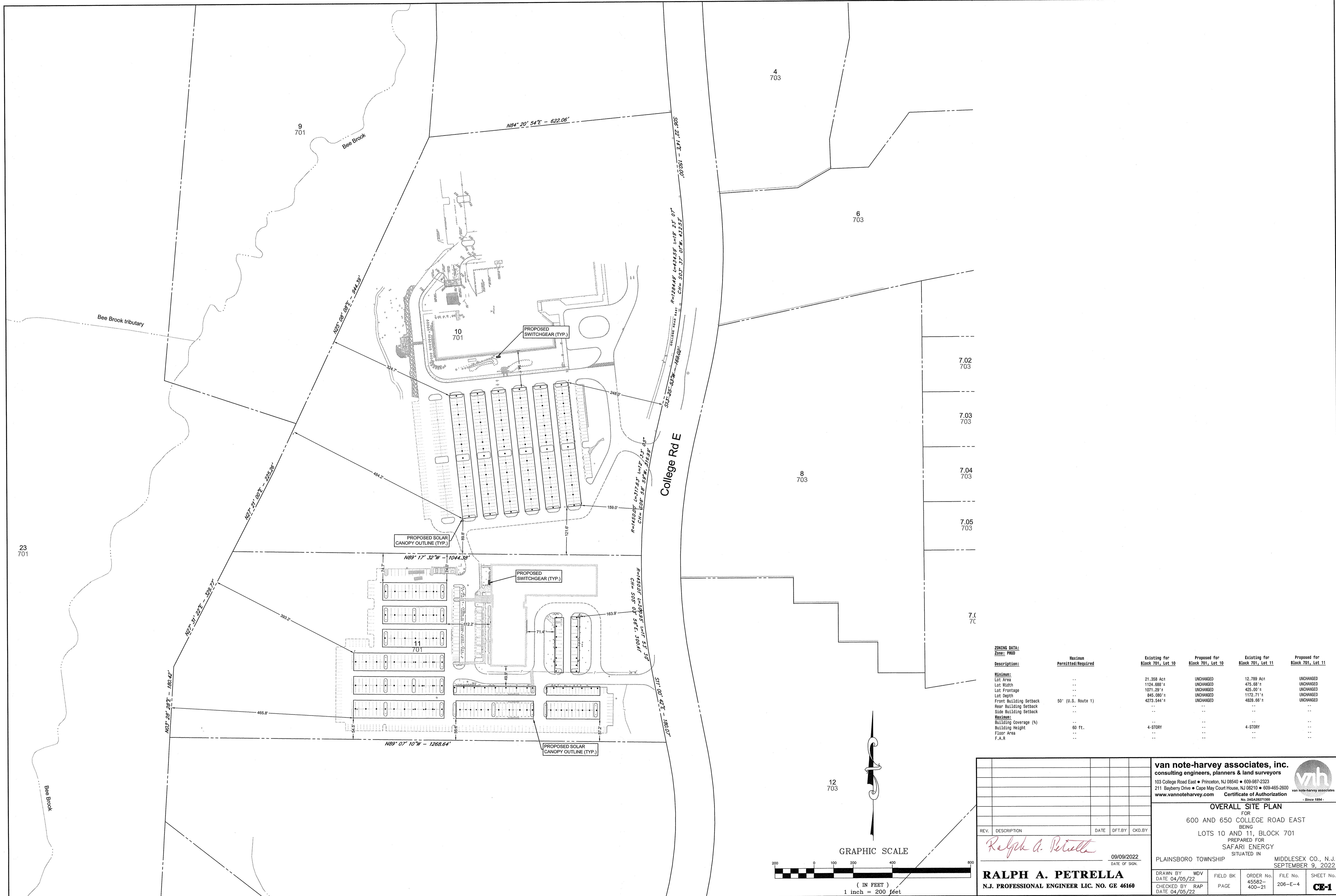
TAX MAP SHEET 7
 BLOCK 701
 LOT 10

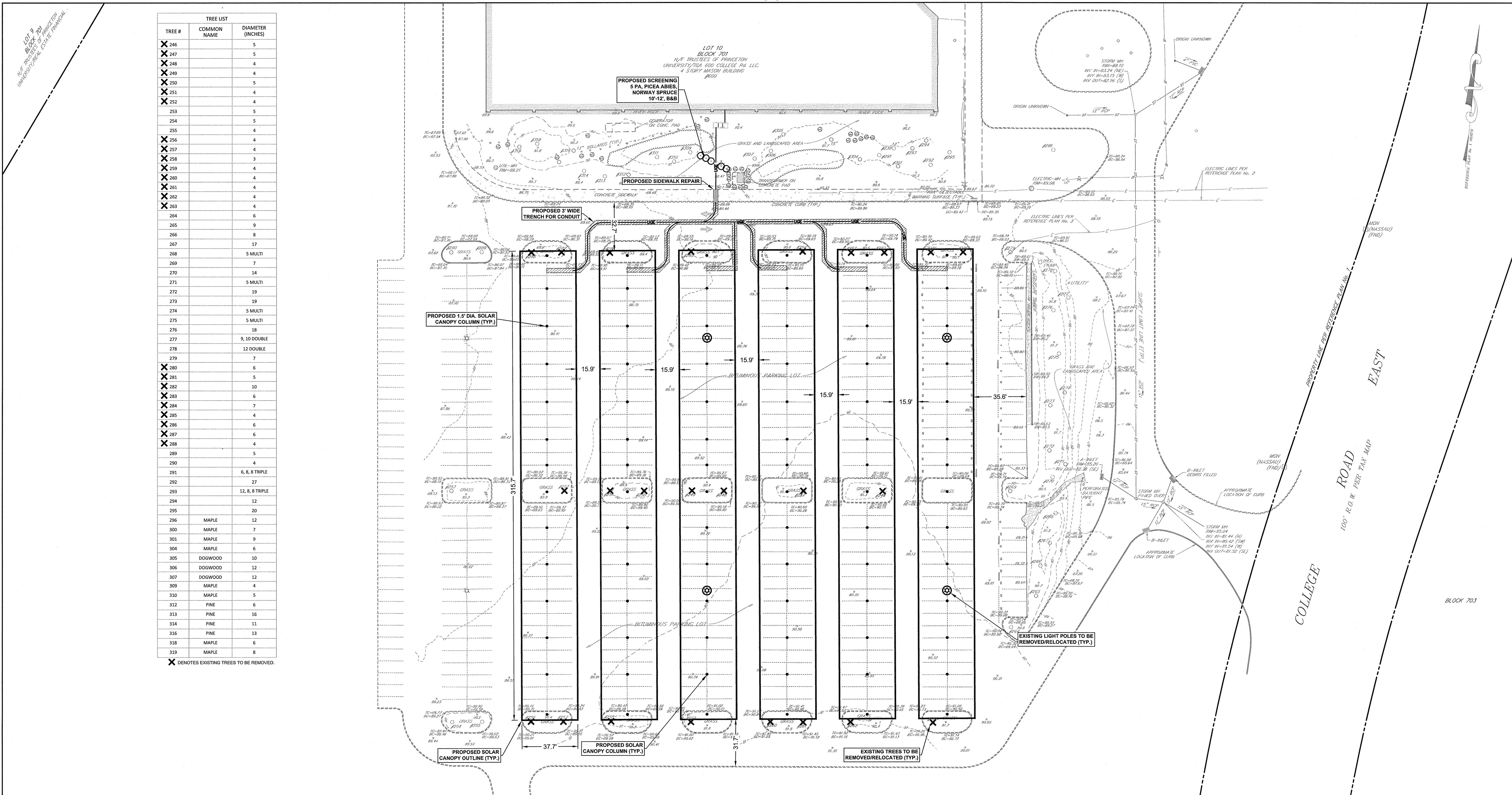
GRAPHIC SCALE
 200 0 100 200 400 800
 (IN FEET)
 1 inch = 200 feet



VICINITY PLAN				
FOR 600 AND 650 COLLEGE ROAD EAST BEING LOTS 10 AND 11, BLOCK 701 PREPARED FOR SAFARI ENERGY SITUATED IN PLAINSBORO TOWNSHIP MIDDLESEX CO., N.J. SEPTEMBER 9, 2022				
REV.	DESCRIPTION	DATE	DFT.BY	CKD.BY
Ralph A. Petrella 09/09/2022 DATE OF SIGN.				
van note-harvey associates, inc. consulting engineers, planners & land surveyors 103 College Road East • Princeton, NJ 08540 • 609-987-2323 211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600 www.vannoteharvey.com Certificate of Authorization - Since 1884 -				
DRAWN BY WDV FIELD BK ORDER No. FILE No. SHEET No. DATE 04/05/22 PAGE 45582-400-21 206-E-4 VIC CHECKED BY RAP DATE 04/05/22				

RALPH A. PETRELLA
N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160





PLAINSBORO TOWNSHIP TAX MAP INFORMATION

BLOCK 701 LOT 10

SHEET 7

Know what's below.
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SITE ENGINEERING PLAN

FOR

600 COLLEGE ROAD EAST

BEING

LOT 10, BLOCK 701

PREPARED FOR

SAFARI ENERGY

SITUATED IN

MIDDLESEX CO., N.J.

SEPTEMBER 9, 2022

DRAWN BY: WDV

FIELD BK

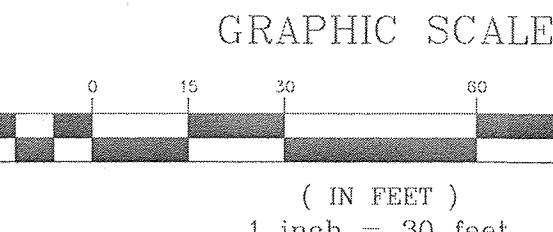
ORDER NO. 45582-400-21

FILE NO. 206-E-4

SHEET NO. CE-2

Ralph A. Petrella
09/09/2022
DATE OF SIGN.

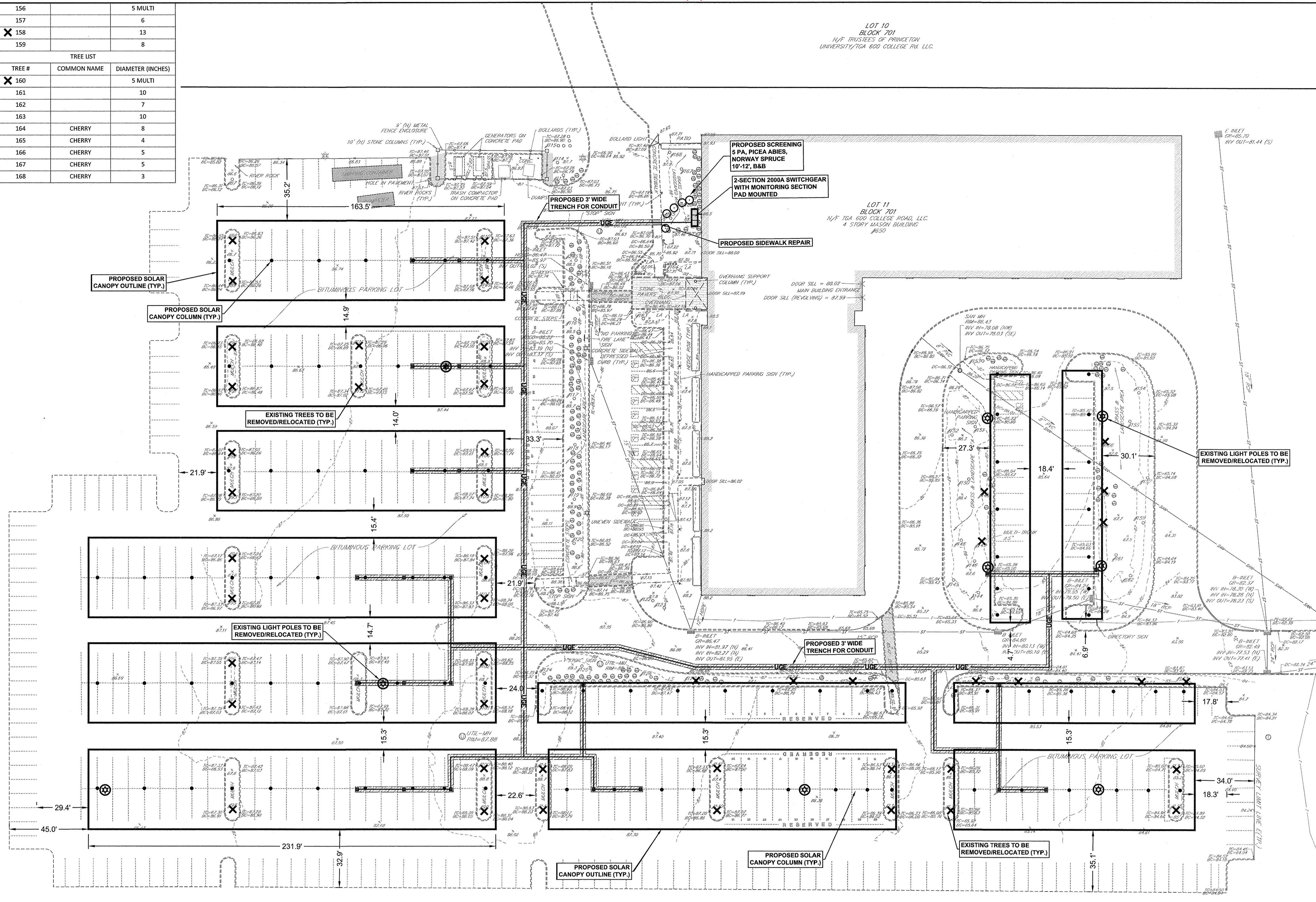
Ralph A. Petrella
N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160



GRAPHIC SCALE

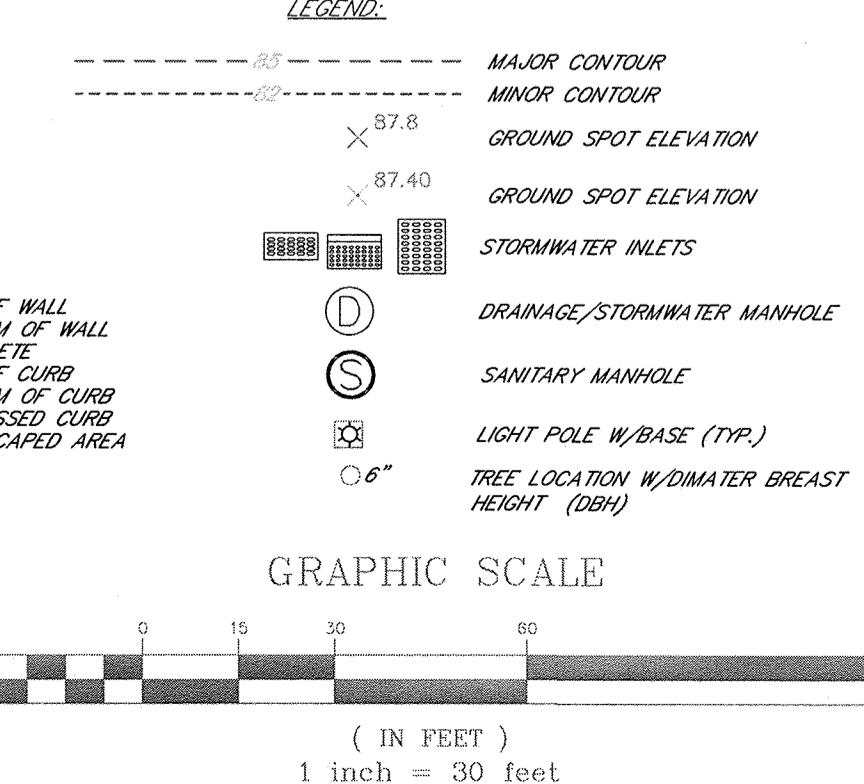
TREE LIST		
TREE #	COMMON NAME	DIAMETER (INCHES)
87		8
X 88		7
X 89		8
X 90		7
X 91		6
X 92		5
X 93		5
X 94		7
X 95		6
X 96		7
X 97		8
X 98		9
X 99		6
X 100		7
X 101		8
X 102		7
X 103		6
X 104		7
X 105		5
X 106		7
X 107		6
X 108		6
X 109		6
X 110		5
111		6
112		6
113		6
114		6
115		16
116		18
117		14
118		9
119		9
120		18
121		10
122		9
123		6
124		12
125		13
126		12
X 127		9
X 128		10
X 129		10
X 130		11
X 131		9
X 132		9
X 133		10
X 134		7
X 135		7
X 136		7
X 137		8
X 138		7
X 139		6
X 140		7
X 141		7
X 142		8
X 143		7
144		10
145		8
146		8
X 147		5 MULTI
148		7
X 149		12
150		8
151		9
152		5 MULTI
153		10
154		5
155		7

X DENOTES EXISTING TREES TO BE REMOVED.



NOTES:

- ALL EXISTING CURB THAT IS DAMAGED/DISTURBED SHALL BE REPLACED TO THE NEAREST SOUND JOINT, AS REQUIRED.
- ALL PARKING SPACE STRIPING WITHIN CONSTRUCTION AREAS SHALL BE RE-STRIPED, ALL REMAINING EXISTING PARKING SPACE STRIPING OUTSIDE OF CONSTRUCTION ACTIVITIES SHALL BE RE-STRIPED BY OWNER, AS REQUIRED.
- ALL EXISTING POLE MOUNTED LIGHTING WITHIN THE LIMITS OF THE SOLAR CANOPY SYSTEM SHALL BE REMOVED.
- ALL EXISTING SIGNAGE WITHIN THE LIMITS OF THE SOLAR CANOPY SYSTEM SHALL BE REMOVED AND RELOCATED OR REPLACED IN KIND.
- REFER TO PLANS PLANS PREPARED BY SAFARI ENERGY FOR ALL SOLAR COLUMNS, SWITCHGEAR, DIMENSIONS AND DETAILS.



PLAINSBORO TOWNSHIP TAX MAP INFORMATION

LOT 11, BLOCK 701

SHEET 7



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SITE ENGINEERING PLAN

FOR

650 COLLEGE ROAD EAST

BEING

LOT 11, BLOCK 701

PREPARED FOR

SAFARI ENERGY

SITUATED IN

MIDDLESEX CO., N.J.

SEPTEMBER 9, 2022

REV.	DESCRIPTION	DATE	DFT.BY	CKD.BY
<p><i>Ralph A. Petrella</i></p> <p>09/09/2022 DATE OF SIGN.</p>				
<p>RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160</p>				

PLAINSBORO TOWNSHIP
SCALE 1" = 30'

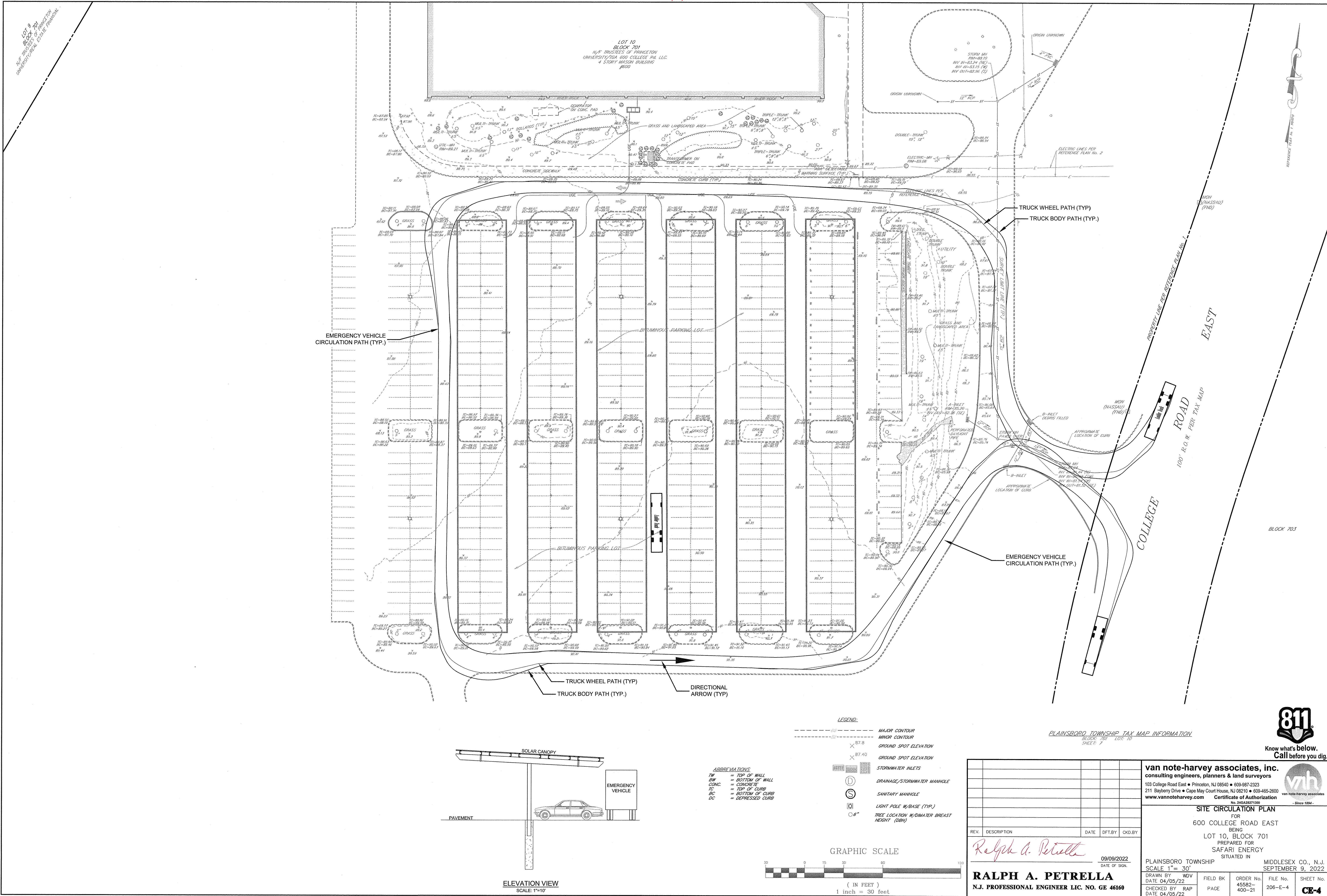
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DATE 04/05/22 PAGE 206-E-4

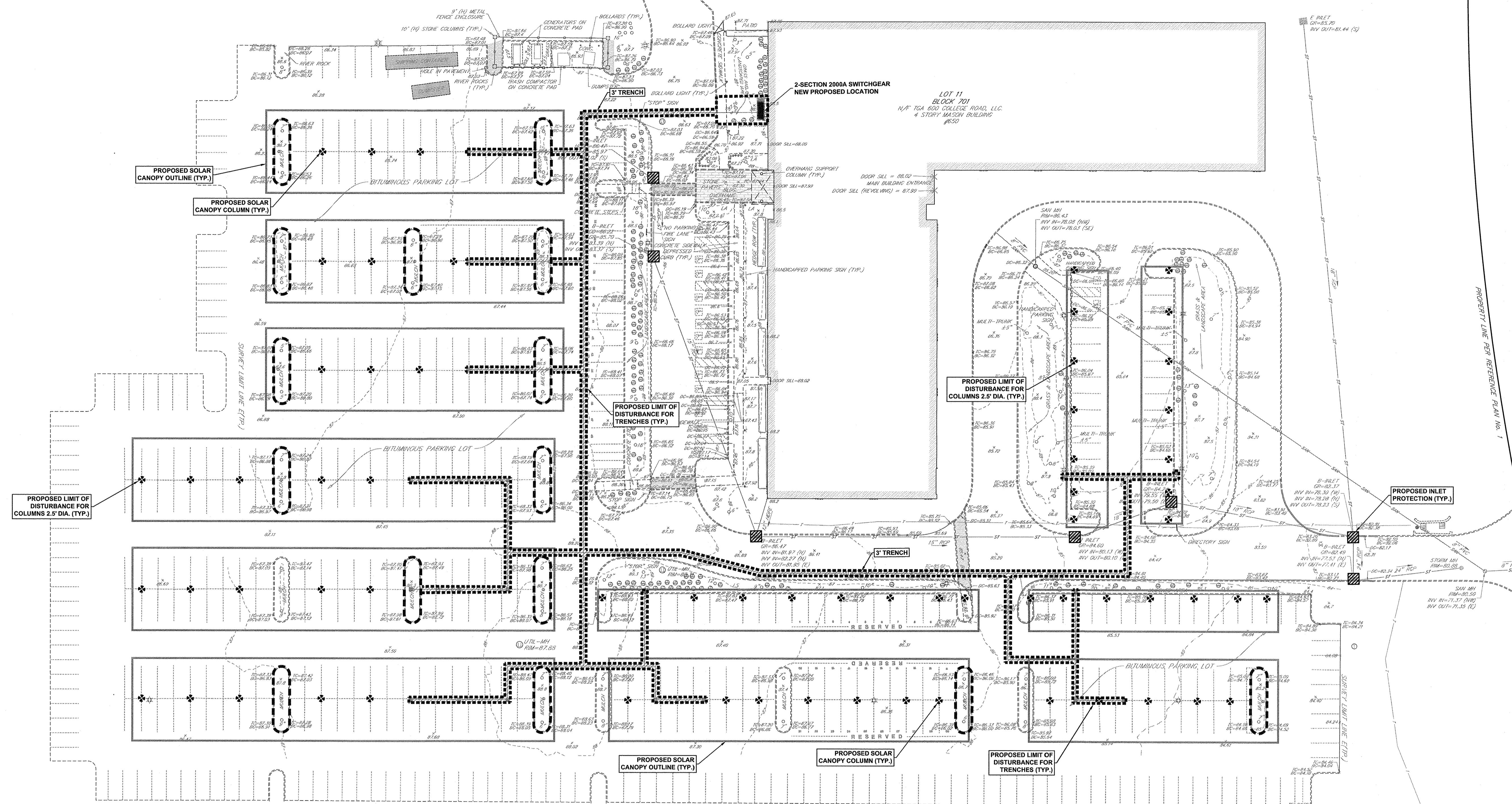
CHECKED BY RAP DATE 04/05/22

CE-3

IRON PIN (FND)



LOT 10
BLOCK 701
N.J. TRUSTEES OF PRINCETON
UNIVERSITY/650 COLLEGE RD. LLC

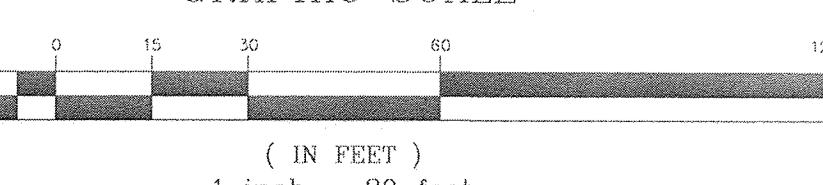


LOT 12
BLOCK 701
N.J. TRUSTEES OF PRINCETON UNIVERSITY/CREDIT SUISSE

LEGEND:

- 88 MAJOR CONTOUR
- 87 MINOR CONTOUR
- × 87.8 GROUND SPOT ELEVATION
- × 87.40 GROUND SPOT ELEVATION
- STORMWATER INLETS
- DRAINAGE/STORMWATER MANHOLE
- SANITARY MANHOLE
- LIGHT POLE W/BASE (TYP.)
- TREE LOCATION W/DIMATER BREAST HEIGHT (DBH)

GRAPHIC SCALE



LIMIT OF DISTURBANCE (LOD) TABLE	
LOD TRENCHES	= 5,025 S.F.±
LOD COLUMNS 5 S.F. x 64	= 320 S.F.±
LOD ISLANDS 308 S.F. x 15	= 4,620 S.F.±
TOTAL DISTURBANCE AREA	= 9,965 S.F.±

ABBREVIATIONS
 TOH = TOP OF HALL
 DW = DIA. OF WALL
 CONC = CONCRETE
 TC = TOP OF CURB
 BC = BURIED CURB
 LS = LANDSCAPED AREA

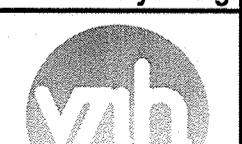
PLAINSBORO TOWNSHIP TAX MAP INFORMATION
BLOCK 701 LOT 11
SHEET: 7

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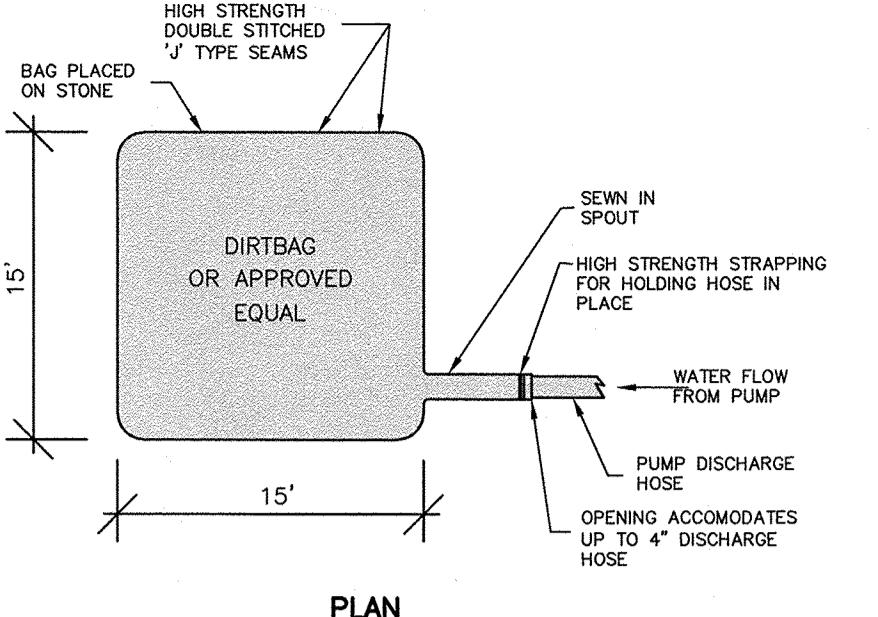
SOIL EROSION AND SEDIMENT CONTROL PLAN
FOR
650 COLLEGE ROAD EAST
BEING
LOT 11, BLOCK 701

PREPARED FOR
SAFARI ENERGY
SITUATED IN
PLAINSBORO TOWNSHIP
MIDDLESEX CO., N.J.
SEPTEMBER 9, 2022

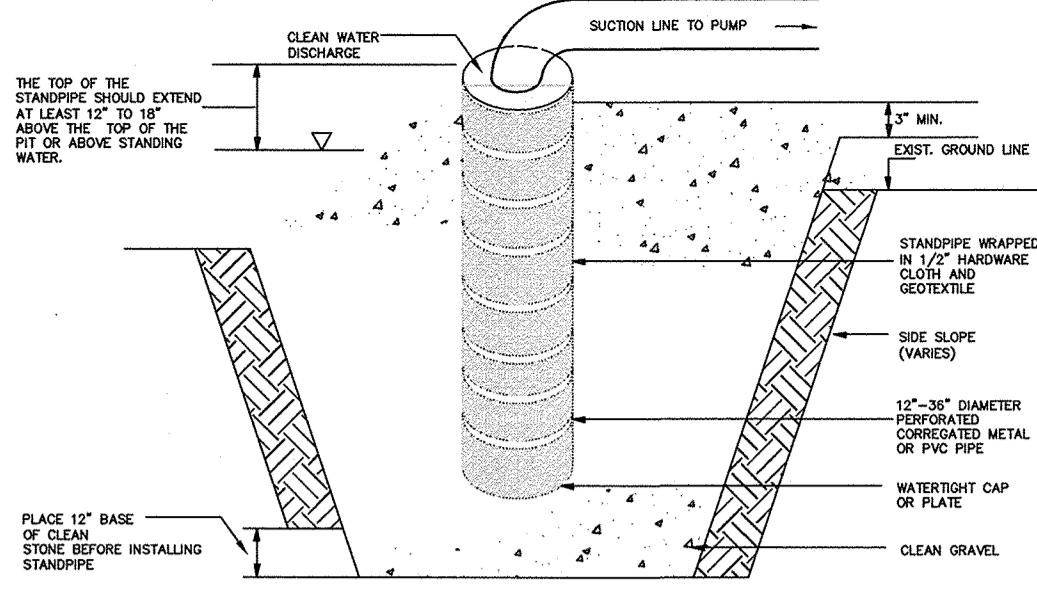
RALPH A. PETRELLA
N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160

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CE-7



PLAN



CROSS SECTION

NOTE: THE NUMBER AND LOCATION OF SUMP PUMPS TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD.

CONSTRUCTION SPECIFICATIONS

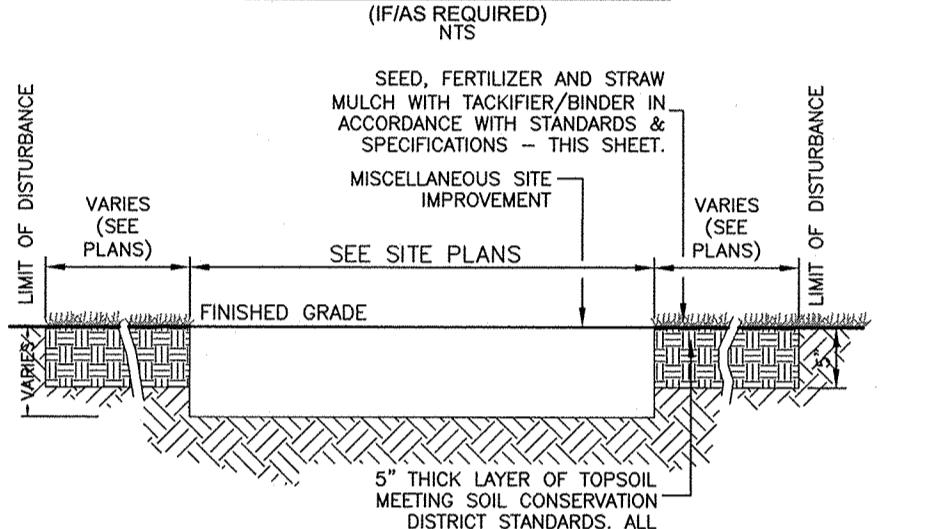
- PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER.
- THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE. THE STANDPIPE WITH 1/2" HAMMARD CLOTH AND GEOTEXTILE FABRIC. THE PERFORATIONS SHALL BE 1/2" X 1/2" SLOTS OR 1" DIAMETER HOLES.
- A BASE OF FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR ASTM C33 STONE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL.
- THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT OR THE RISER CREST ELEVATION (BASIN Dewatering ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.

ELEVATION

NOTES:

- ALL STORM WATER FROM THE CONSTRUCTION SITE SHALL BE DIVERTED TO LOW AREAS AND SHALL BE PUMPED THROUGH SILT FILTRATION BAG.
- SILT FILTRATION PUMPING STATIONS AND BAGS SHALL BE PROVIDED AS REQUIRED.
- CONTRACTOR SHALL UTILIZE ALL MEASURES, AS REQUIRED, TO PREVENT SEDIMENT-LADEN WATER FROM EXITING THE CONSTRUCTION SITE.
- DIRT BAG SHALL BE LOCATED ON A STABLE SURFACE AWAY FROM WATERWAYS AND ACTIVE CONSTRUCTION AREAS.

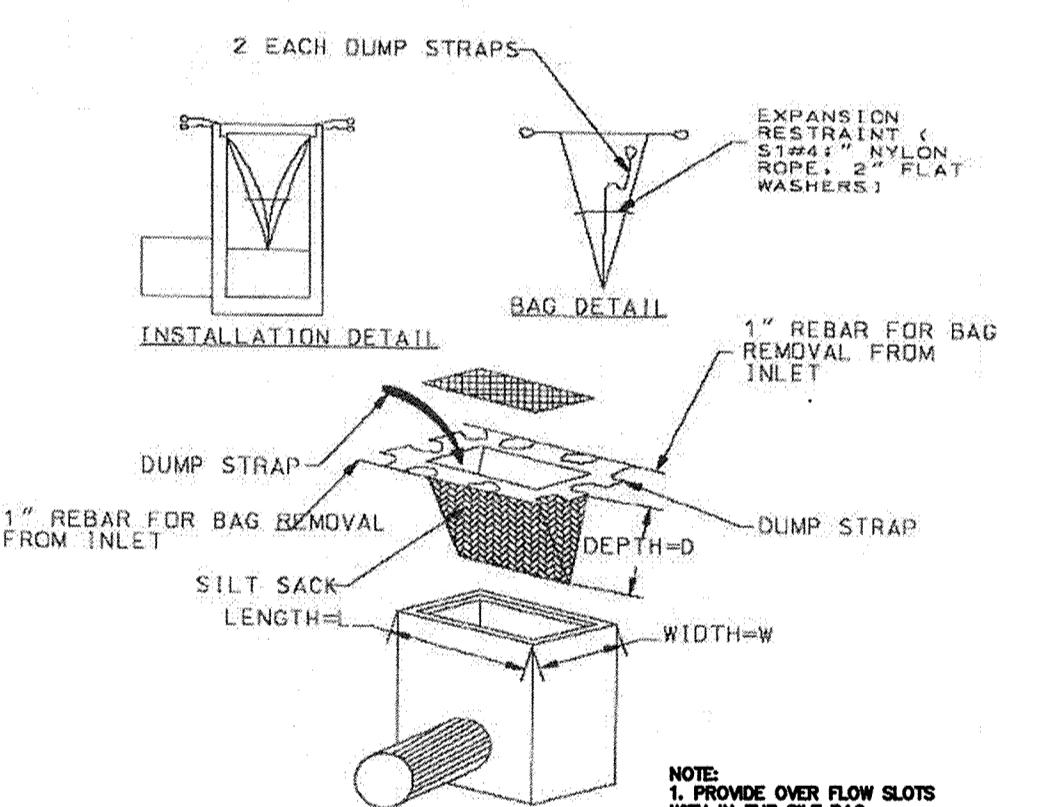
SILT FILTRATION BAG DETAIL (IF AS REQUIRED) NTS



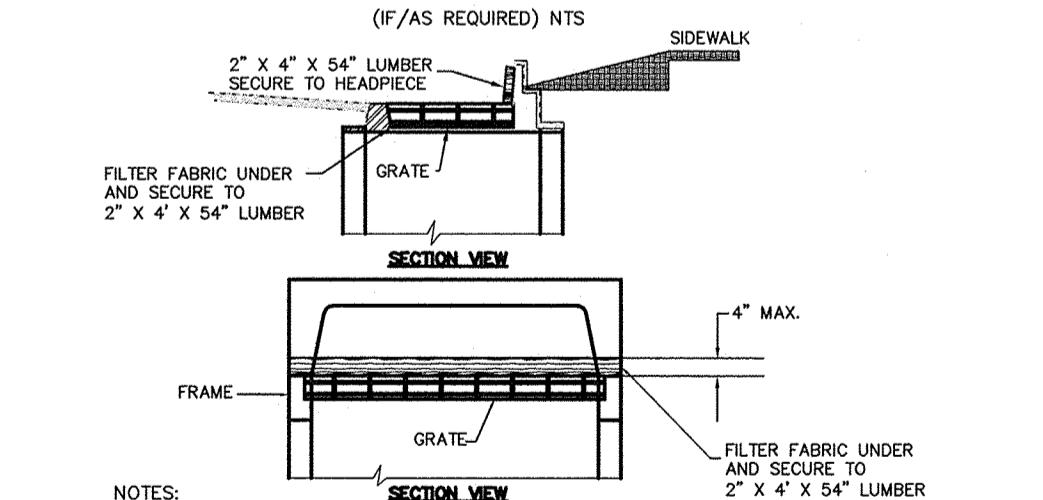
NOTES:

- ALL DISTURBED AREAS SHALL BE COMPLETELY RESTORED FOLLOWING CONSTRUCTION. RESTORATION INCLUDES THE APPLICATION OF 5" OF TOPSOIL, AND PERMANENT STABILIZATION.
- REFER TO NOTES SHEET CE-12, FOR SOIL EROSION AND SEDIMENT CONTROL STANDARDS AND PERMANENT STABILIZATION REQUIREMENTS.

TYPICAL RESTORATION DETAIL (IF AS REQUIRED) NTS



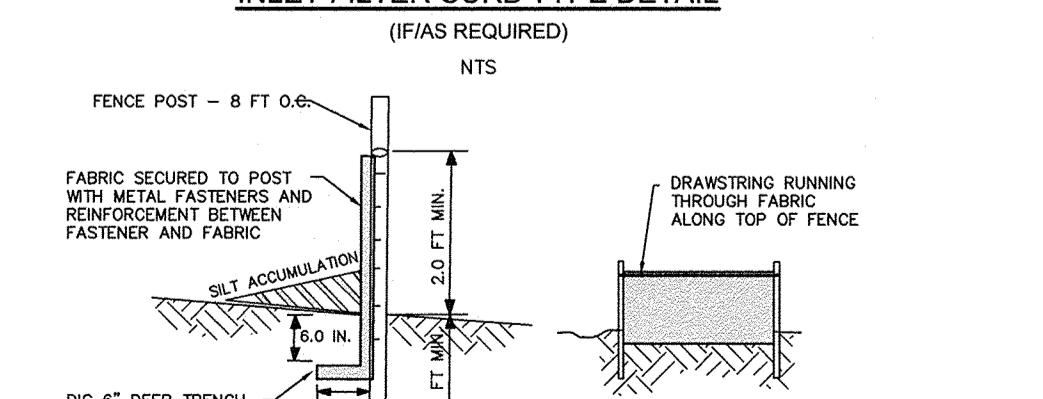
INLET FILTER PROTECTION DETAIL (IF AS REQUIRED) NTS



NOTES:

- FILTER TO REMAIN UNTIL COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF COVER. ALSO, PERIODIC CHECKS MUST BE MADE AFTER EACH RAINFALL TO EXCAVATE AND REMOVE SEDIMENT FROM AROUND INLETS.
- FILTER FABRIC SHALL BE MIRAFI 1400 OR APPROVED EQUIVALENT.

INLET FILTER CURB TYPE DETAIL (IF AS REQUIRED) NTS



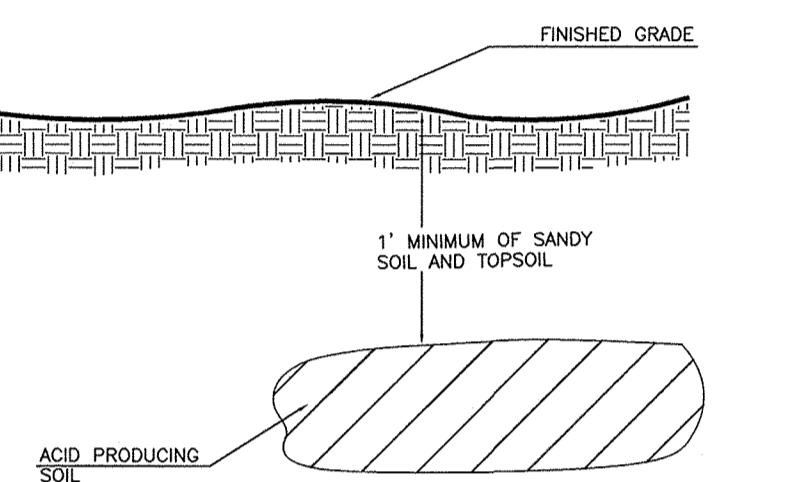
NOTES:

- ALL SILT FENCE WILL BE INSPECTED AND REMEDIAL MAINTENANCE PERFORMED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH RAIN.

SILT FENCE DETAIL NTS

DE-WATERING DETAIL

N.T.S.



NOTES:

- ACID PRODUCING SOILS ARE DEFINED AS SOILS CONTAINING IRON SULFIDE MINERALS OR SOILS WITH A PH OF 4.0 OR LESS.
- IRON SULFIDE MINERALS WILL PRODUCE SULFURIC ACID WHEN EXPOSED TO THE AIR OR SURFACE WATERS.
- SOIL USED TO COVER ACID PRODUCING SOILS SHALL HAVE A PH OF 5.0 OR MORE.

ACID PRODUCING SOILS:

- IT IS ANTICIPATED THAT THE CONTRACTOR WILL ENCOUNTER ACID PRODUCING SOILS DURING THE DEEP EXCAVATION REQUIRED FOR THE SANITARY SEWER INSTALLATION.
- UPON ENCOUNTERING THESE SOILS, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO SEGREGATE THEM FROM OTHER SOILS ON SITE. IF THESE ACID PRODUCING SOILS ARE FOUND IN MIXTURE WITH OTHER SOILS, THEN THE TOTAL AMOUNT OF SOILS WOULD BE CONSIDERED ACID PRODUCING.
- MITIGATION OF THESE ACID PRODUCING SOILS REQUIRES BURIAL WITH THE PLACEMENT OF ONE (1) FOOT OF TOPSOIL IN GRASS PLANTED AREAS AND TWO AND A HALF (2 1/2) FEET OF TOPSOIL IN ANY LANDSCAPE PLANTING AREAS.

4. THESE SOILS DO NOT HAVE A SUFFICIENT PH CONTENT TO BE USED IN THE STORMWATER MANAGEMENT CORE AND IN CURRENT CONSTRUCTION.

BURIAL OF ACID PRODUCING SOILS (IF AS REQUIRED) NTS

Probing Wire Test- 15.5 ga steel wire (survey flag)

Note: soil should be moist but not saturated. Do not test when soil is excessively dry or subject to freezing temperatures. Slow, steady downward pressure used to advance the wire.

Hold Wire here:
Wire must penetrate a minimum of 6" without deformation.
18-21"
Wire may be re-inserted if/when an obstruction (rock, root, debris) is encountered.
6.0" min. visible mark on wire at depth

SOIL DECOMPACTION AND TESTING REQUIREMENTS (IF AS REQUIRED)

SOIL COMPACTION TESTING REQUIREMENTS

Note: 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 THE TESTS, AND ATTACHED TO THE COMPACTION MITIGATION VERIFICATION 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 THE SIMPLIFIED TESTING METHODS (SEE DETAILS ABOVE), 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 WILL REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACITION TESTING METHODS

- PROBING WIRE TEST (SEE DETAIL)
- HAND-HELD PENETROMETER TEST (SEE DETAIL)
- TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- 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 (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAYBE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

PROBING WIRE TEST DETAIL (IF AS REQUIRED) NTS

Handheld Soil Penetrometer Test

Note: soil should be moist but not saturated. Do not test when soil is excessively dry or subject to freezing temperatures. Slow, steady downward pressure used to advance the probe. Probe must penetrate at least 6" with less than 300 psi reading on the gauge.

Gage reading 300 psi or less at 6"

Penetrometer may be re-inserted if/when an obstruction (rock, root, debris) is encountered.
6.0" min. visible mark on shaft at depth
*Use correct size tip for soil type

HANDHELD SOIL PENETROMETER TEST DETAIL (IF AS REQUIRED) NTS

REV.	DESCRIPTION	DATE	DFT.BY	CKD.BY
<i>Ralph A. Petrella</i>				
09/09/2022				
DATE OF SIGN.				
PLAINSBORO TOWNSHIP, MIDDLESEX CO., N.J.				
MIDDLESEX CO., N.J. SEPTEMBER 9, 2022				
SITUATED IN				
SOIL EROSION & SEDIMENT CONTROL DETAILS FOR 600 AND 650 COLLEGE ROAD EAST BEING LOTS 10 AND 11, BLOCK 701 PREPARED FOR SAFARI ENERGY				
DRAWN BY: WDV FIELD BK: ORDER NO.: FILE NO.: SHEET NO.:				
CHECKED BY: RAP PAGE: ORDER NO.: FILE NO.: SHEET NO.:				
DATE 04/05/22 04/05/22 45582-400-21 CE-9				

RALPH A. PETRELLA
N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160



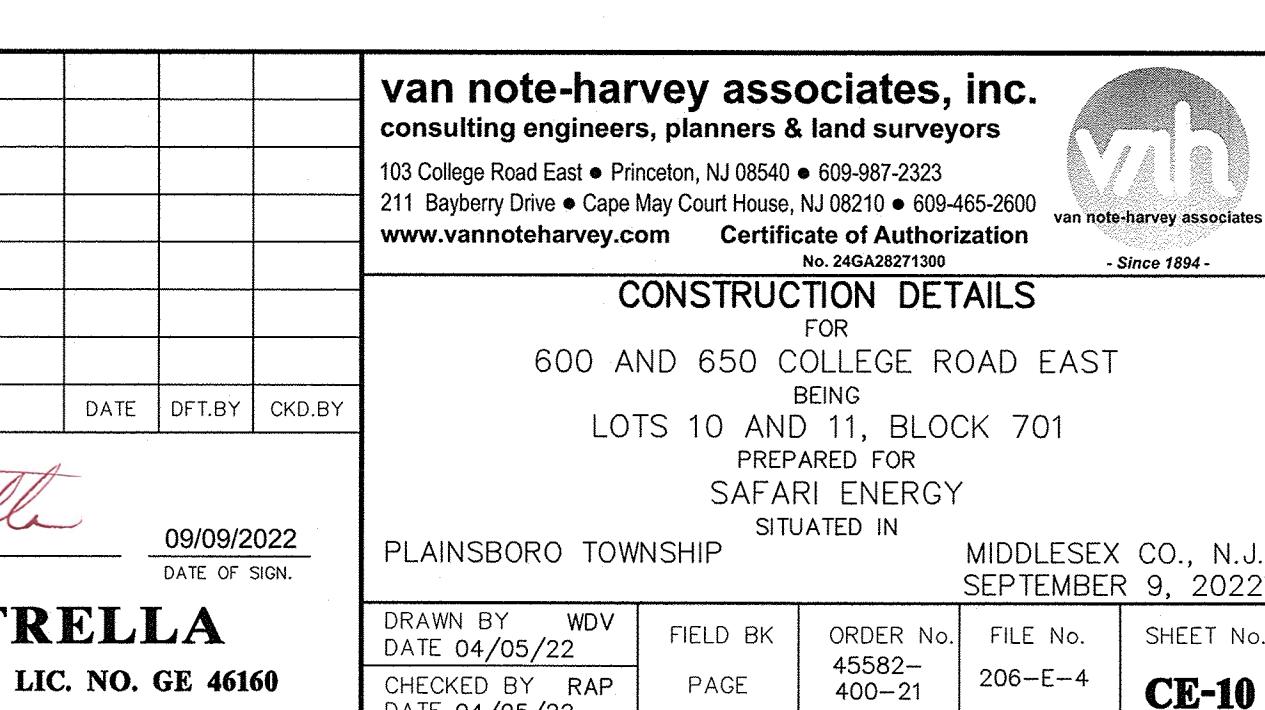
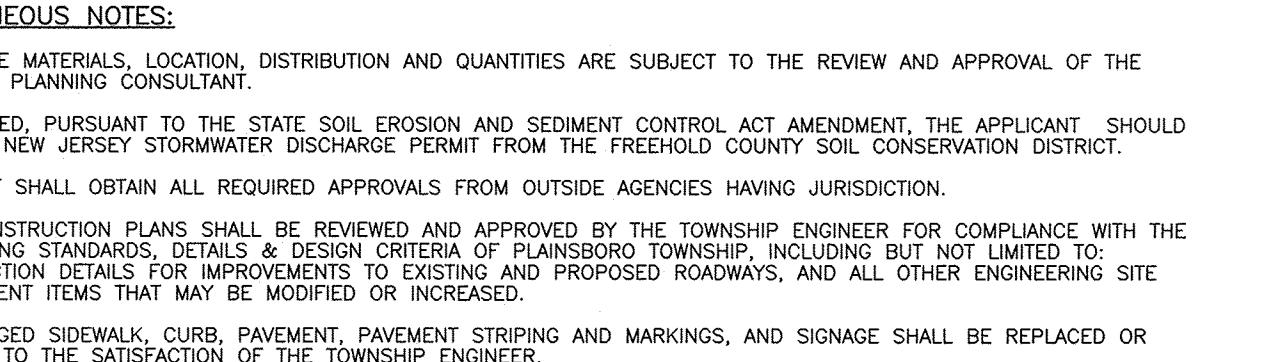
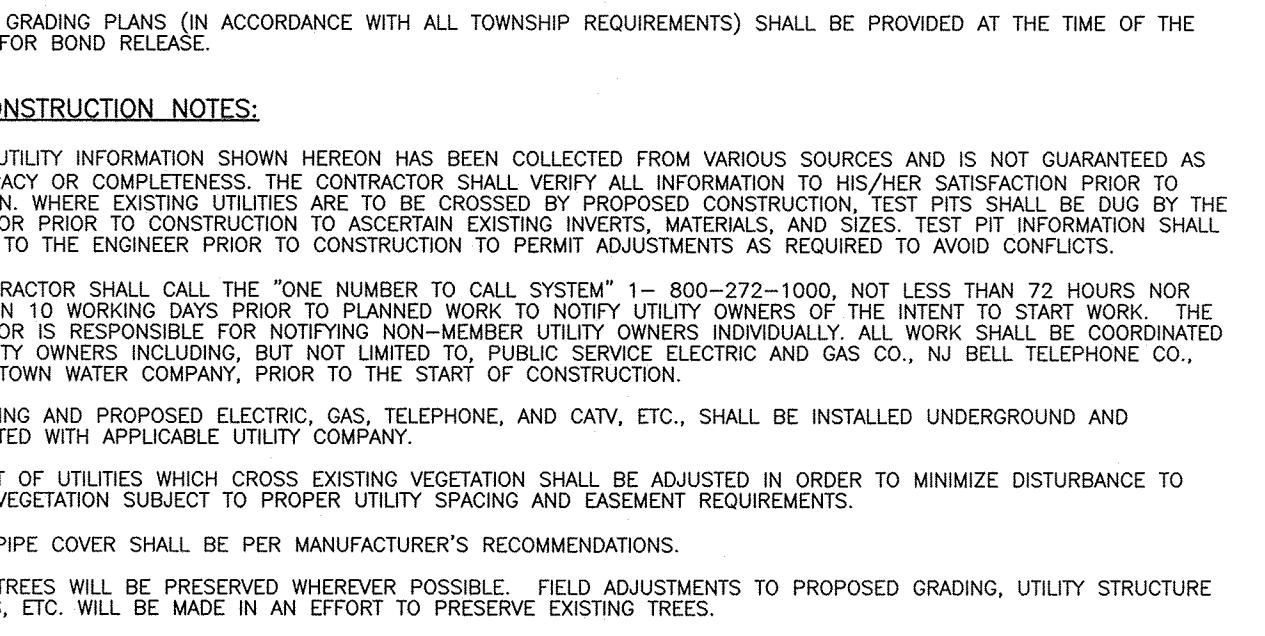
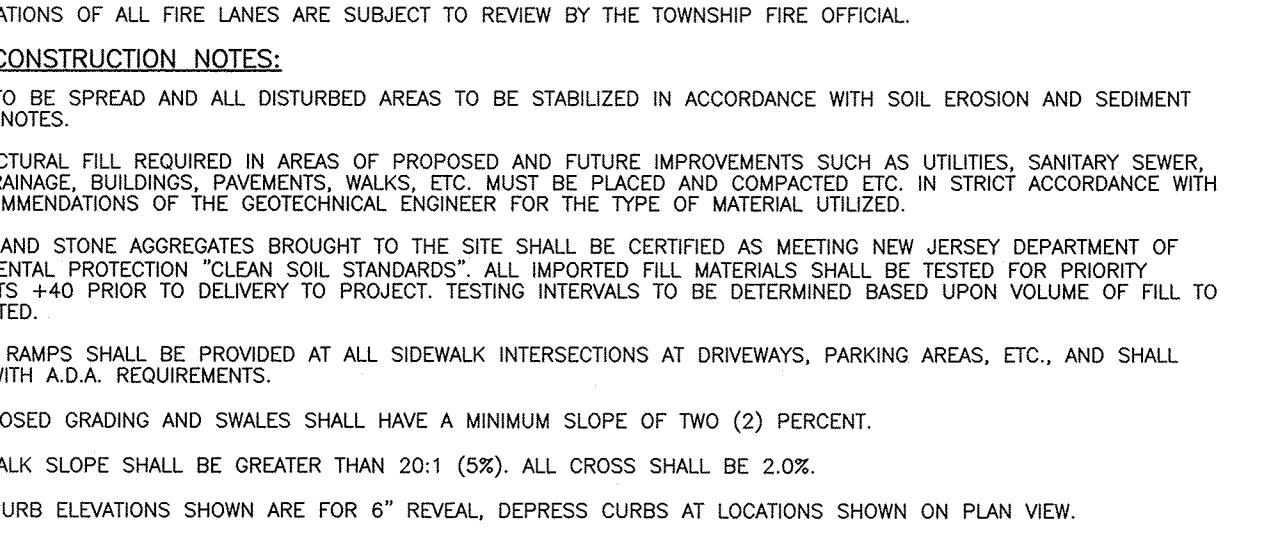
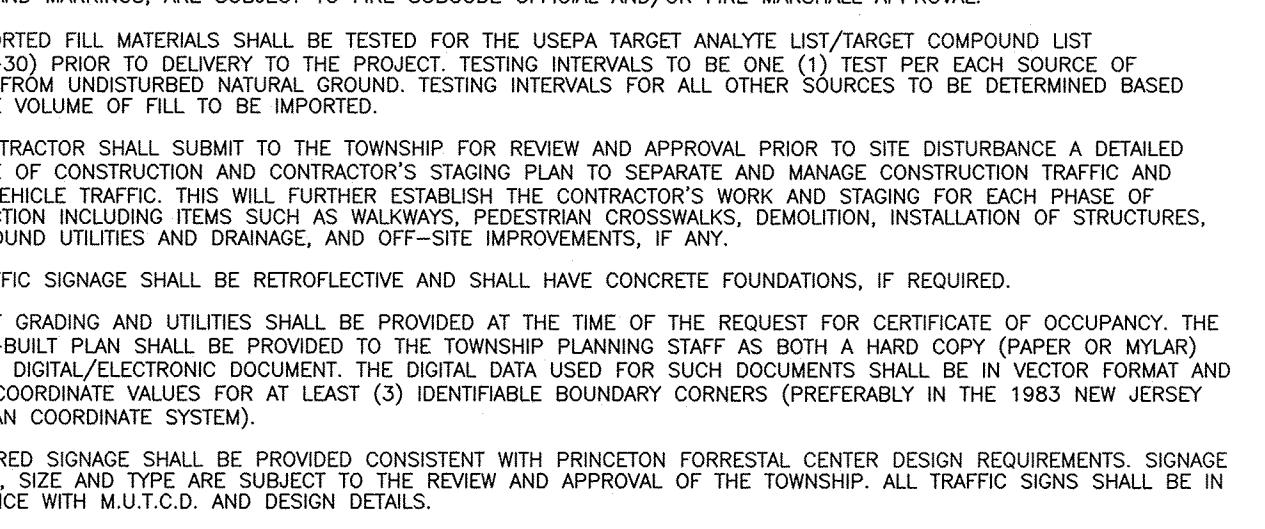
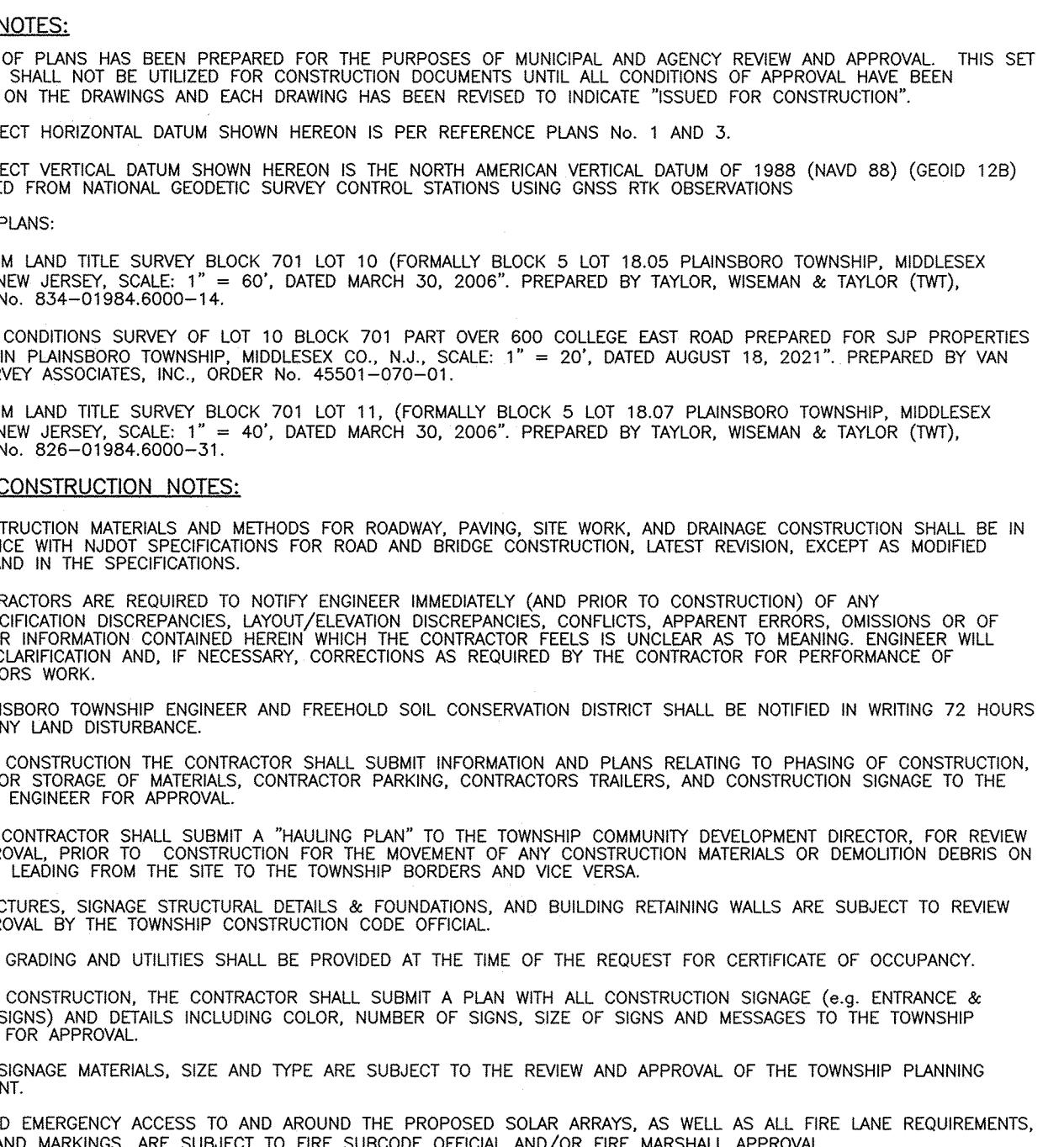
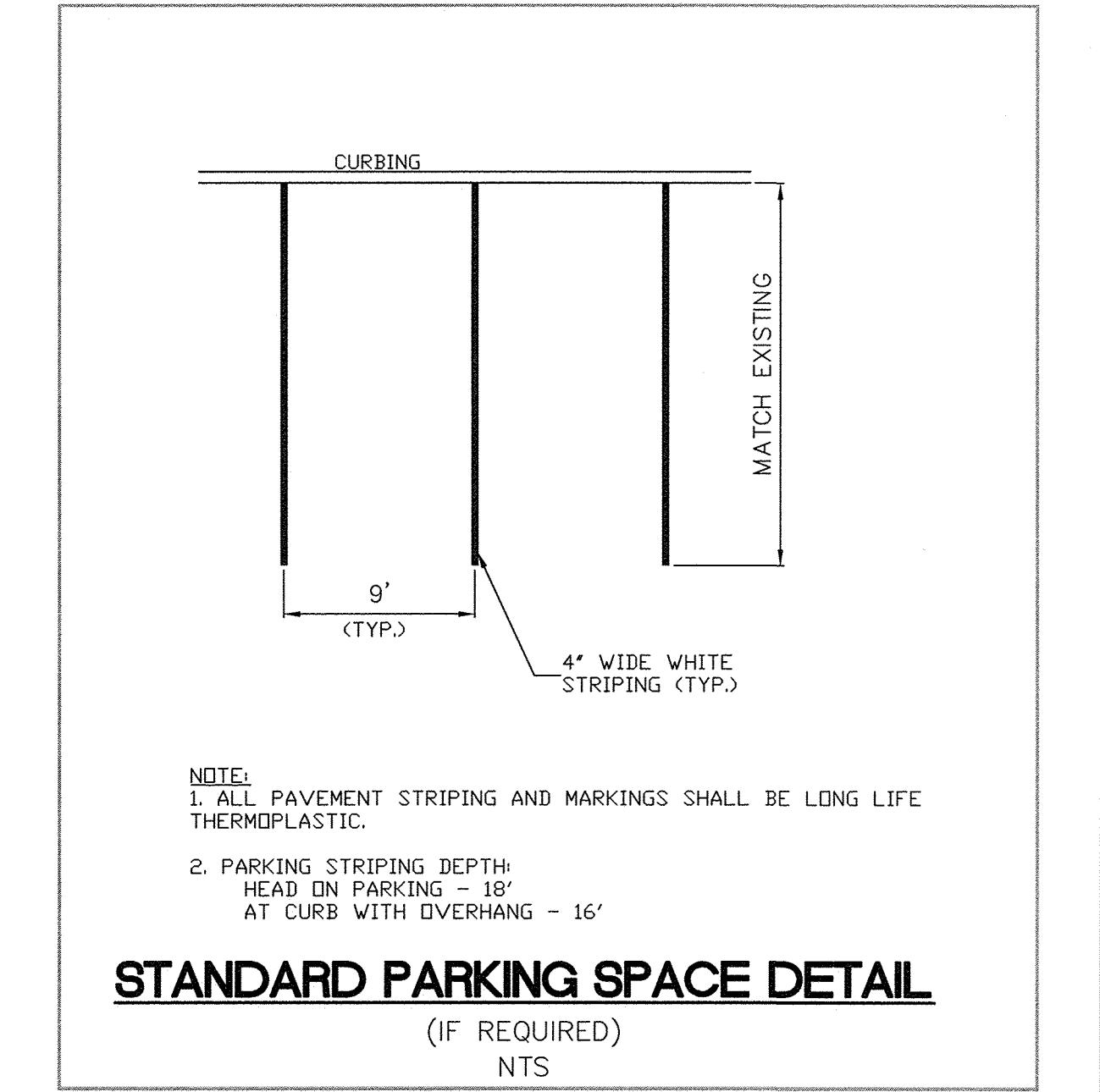
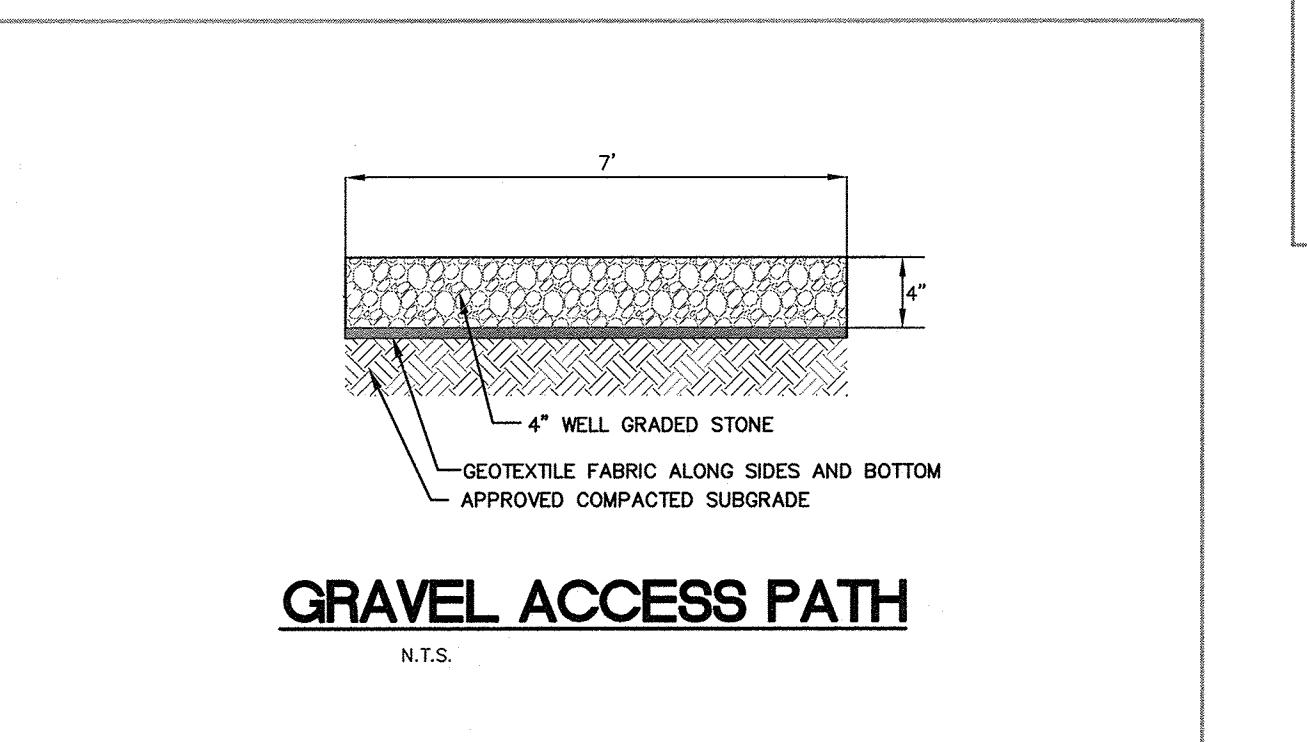
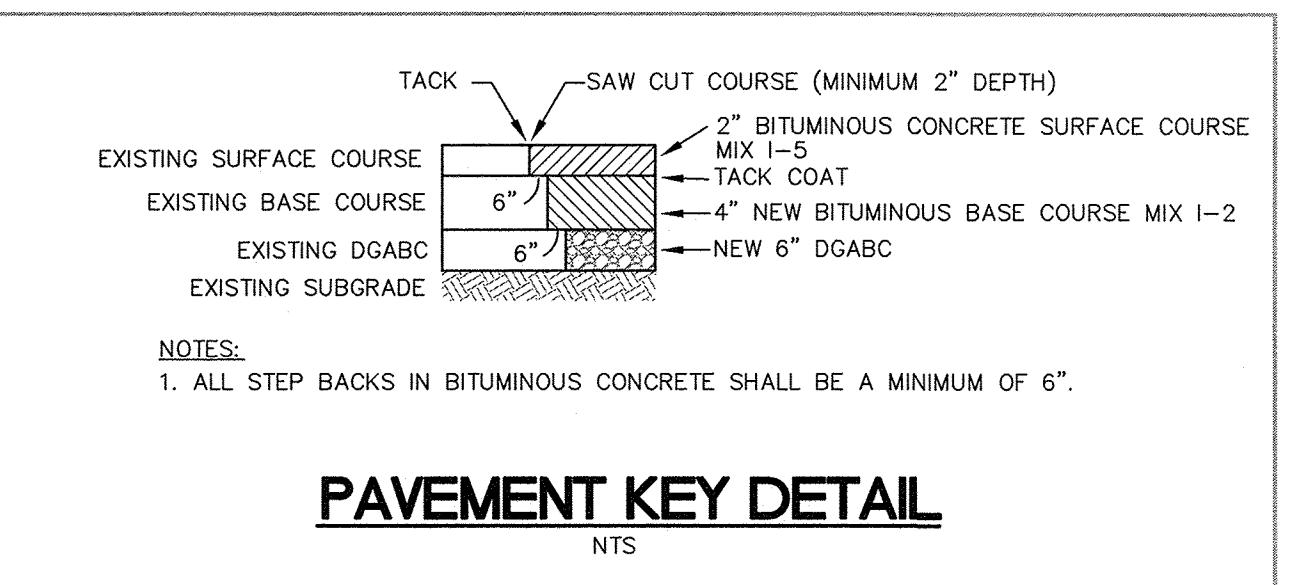
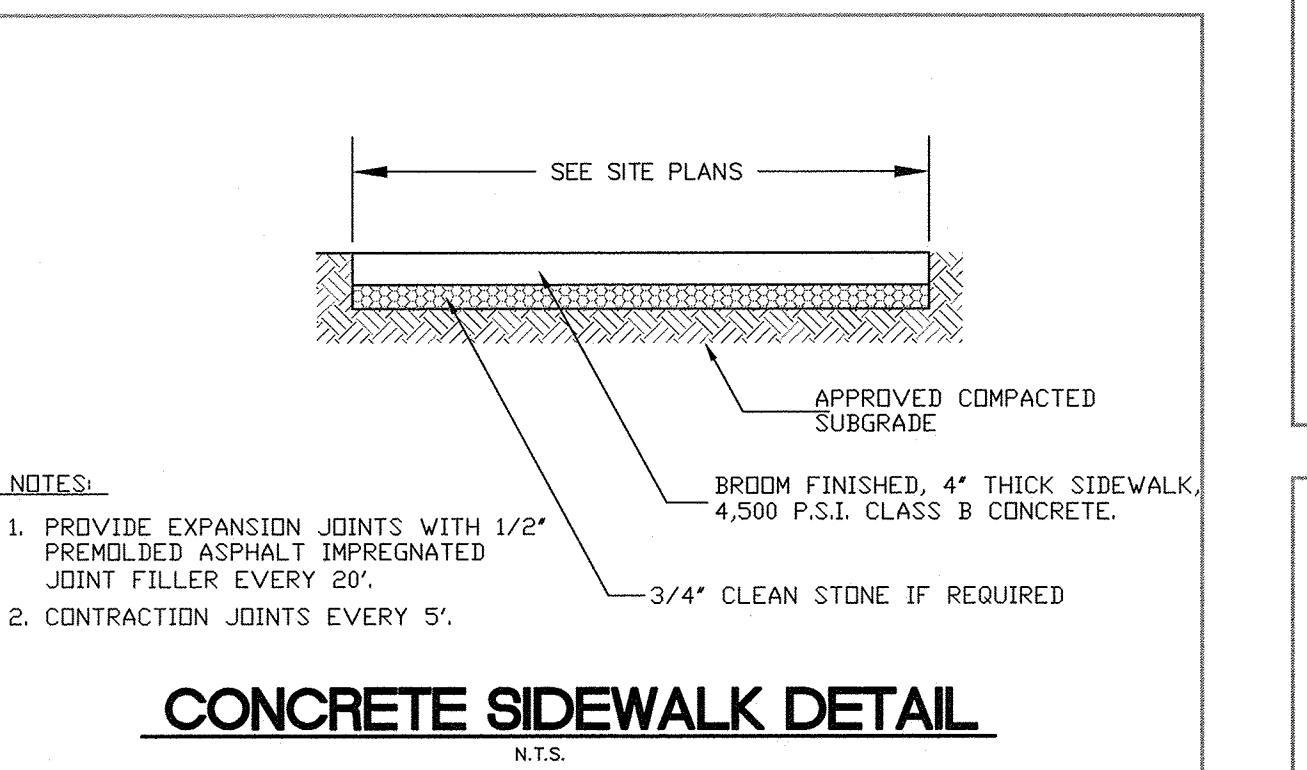
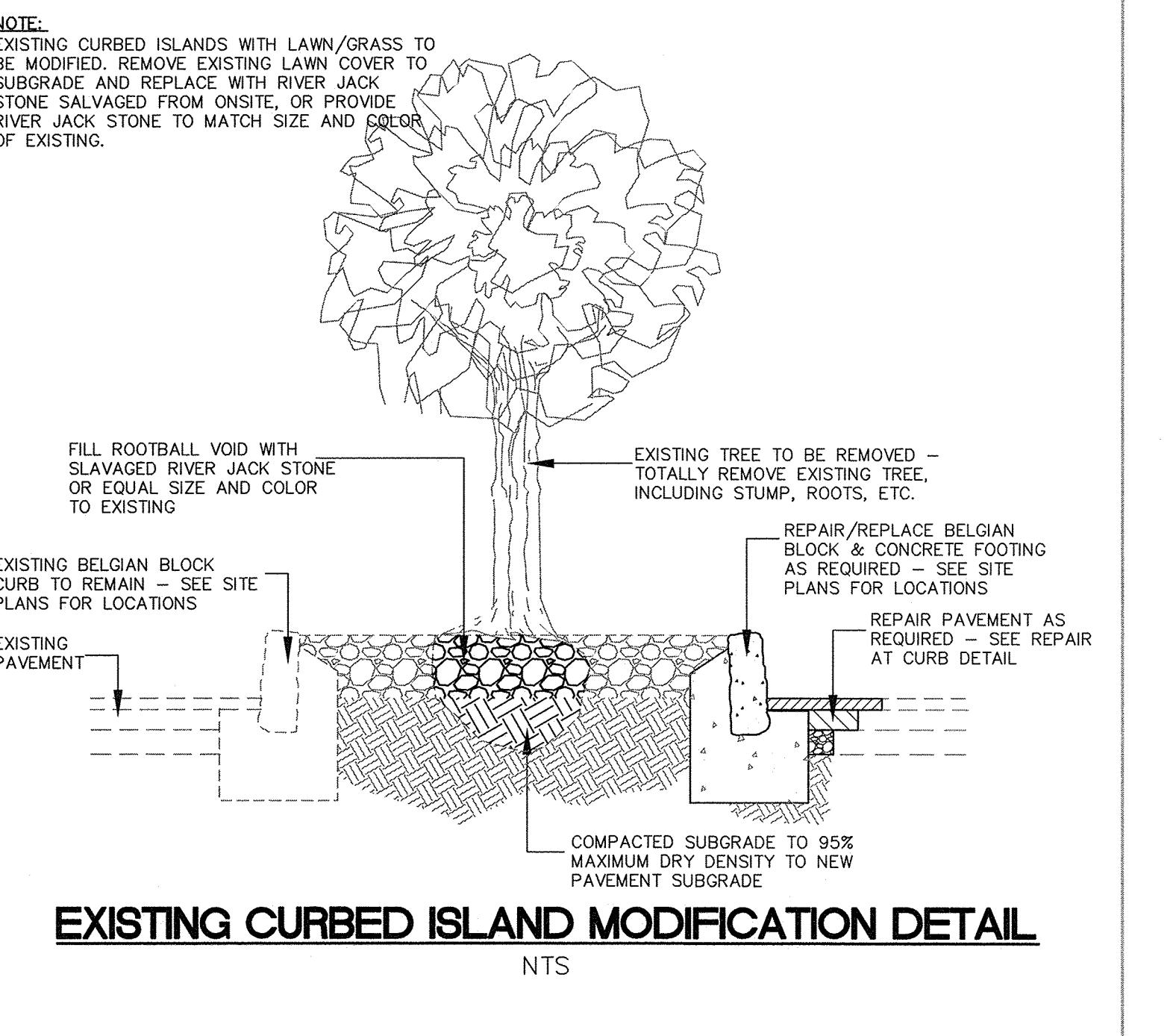
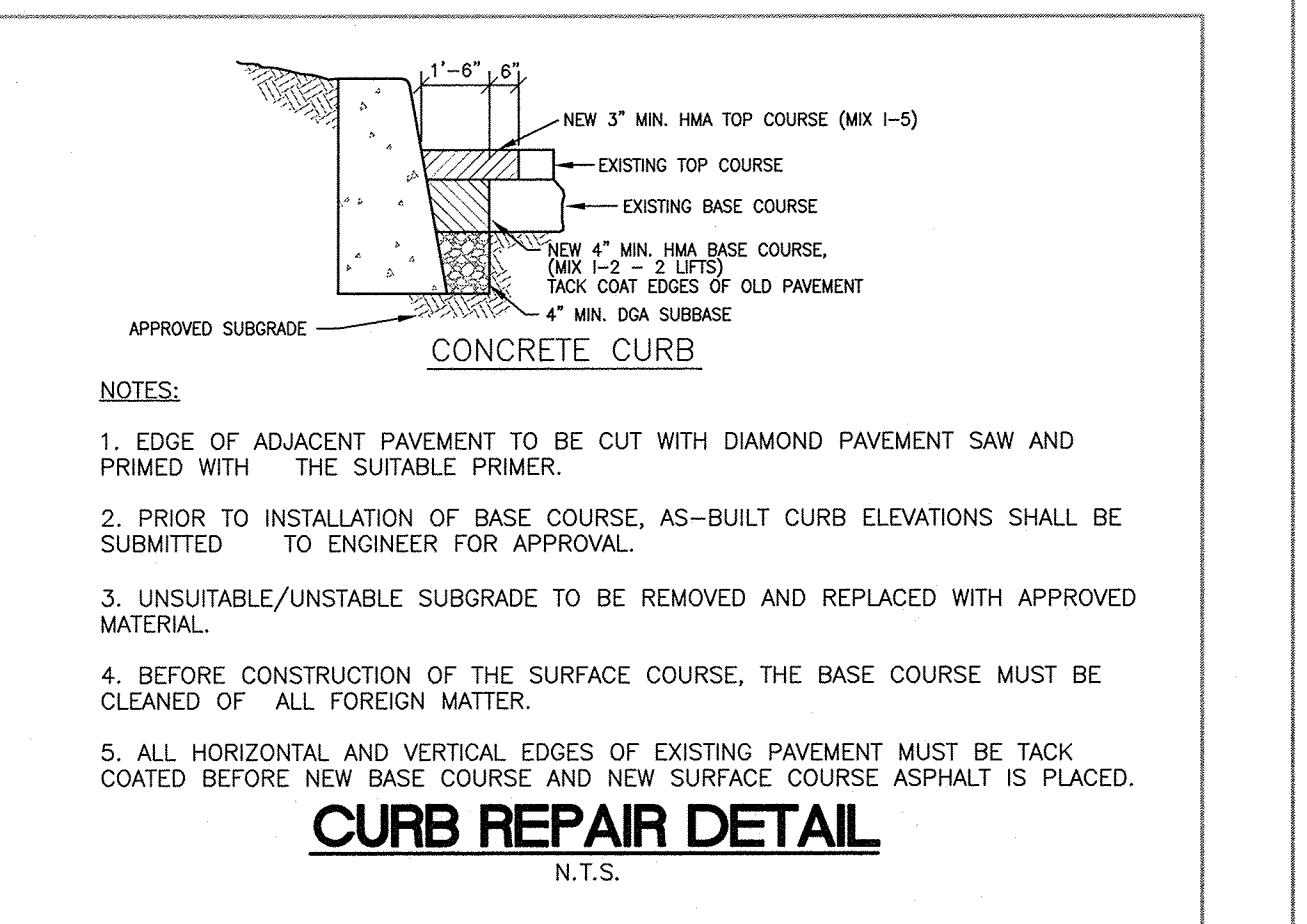
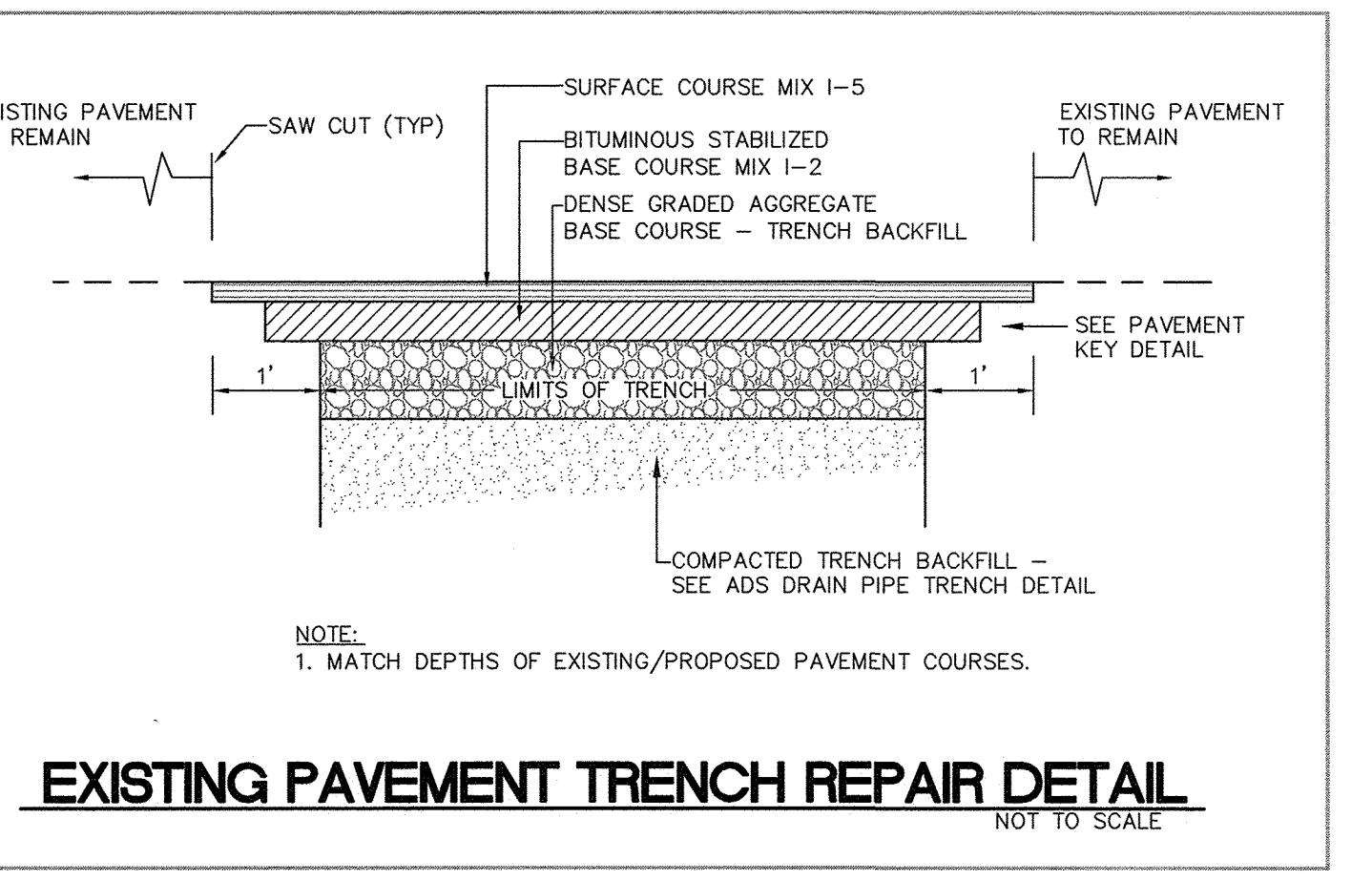
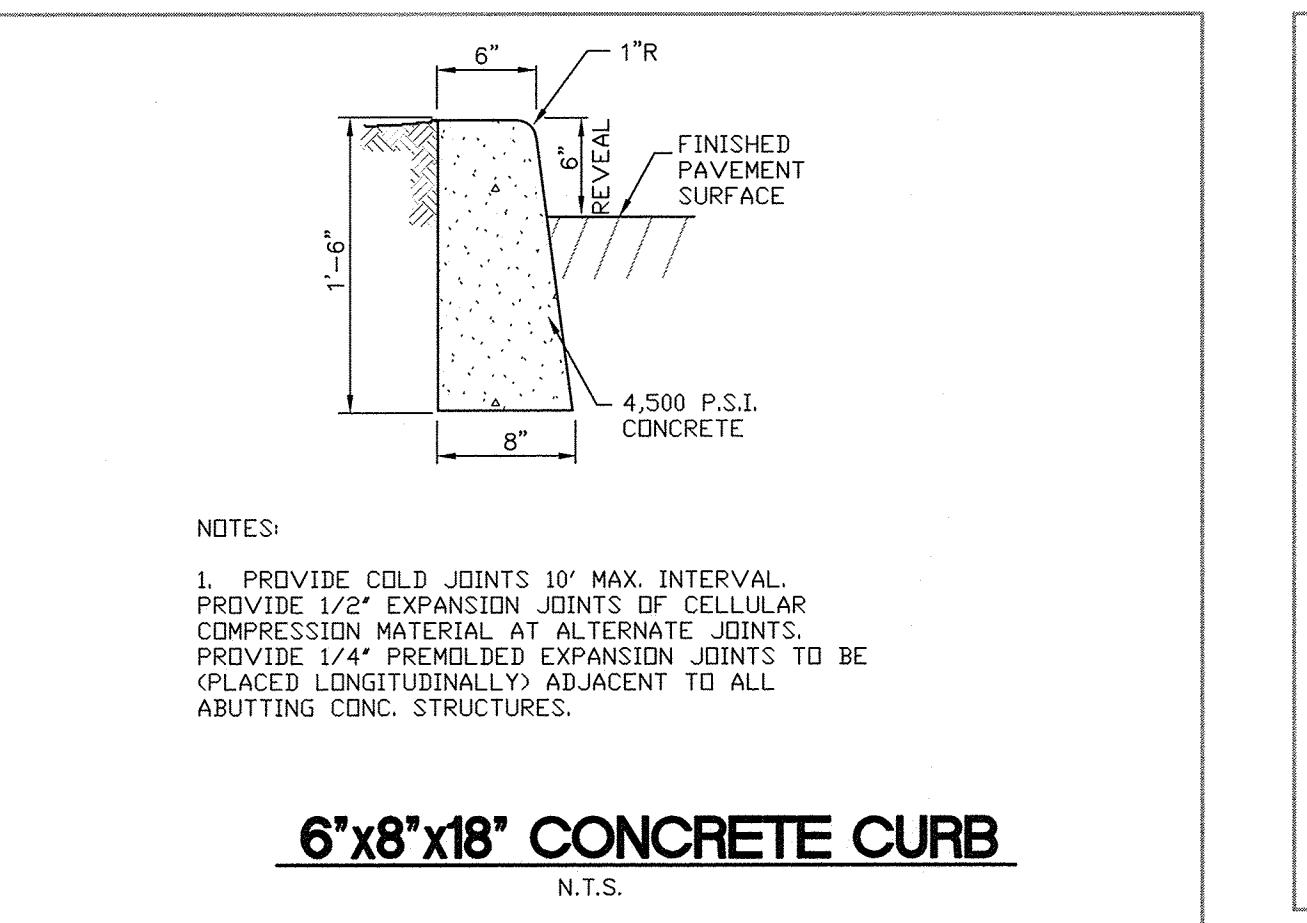
Since 1894

van note-harvey associates

www.vannoteharvey.com

Certificate of Authorization

No. 24GA02827300



REFERENCE PLAN
NO. 2 NORTH



	Existing trees to be removed	
	Less than 12"	12" or greater
600 College Road	24	0
650 College Road	45	2
Total	69	2

	Required tree replacement	
	Less than 12"	12" or greater
Requirement	2:1 Ratio	3:1 Ratio
Total	2*69= 138 trees	3*2= 6 trees

Plant List - Overall Plan

*144 trees need to be replanted. Since the already developed site is not to be reforested, 77 will be replanted through out the site. The remaining 67 trees are requested to be replanted by township.

REV.	DESCRIPTION	DATE	DFT.BY	CKD.BY								
<p><i>Ralph A. Petrella</i></p> <p>09/09/2022 DATE OF SIGN.</p> <p>RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160</p>												
<p>van note-harvey associates, inc. consulting engineers, planners & land surveyors</p> <p>103 College Road East • Princeton, NJ 08540 • 609-987-2323 211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600 www.vannoteharvey.com Certificate of Authorization No. 24GA28271300</p> <p> van note-harvey associates - Since 1894 -</p>												
<p style="text-align: center;">TREE REPLACEMENT PLAN FOR 650 COLLEGE ROAD EAST BEING LOT 11, BLOCK 701 PREPARED FOR SAFARI ENERGY SITUATED IN</p> <p>PLAINSBORO TOWNSHIP SCALE 1" = 50'</p> <p>MIDDLESEX CO., N.J. SEPTEMBER 9, 2022</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DRAWN BY DATE 04/05/22</td> <td style="width: 25%;">WDV FIELD BK</td> <td style="width: 25%;">ORDER No. 45582- 400-21</td> <td style="width: 25%;">FILE No. 206-E-4</td> </tr> <tr> <td>CHECKED BY RAP DATE 04/05/22</td> <td>PAGE</td> <td></td> <td></td> </tr> </table> <p>LS-1</p>					DRAWN BY DATE 04/05/22	WDV FIELD BK	ORDER No. 45582- 400-21	FILE No. 206-E-4	CHECKED BY RAP DATE 04/05/22	PAGE		
DRAWN BY DATE 04/05/22	WDV FIELD BK	ORDER No. 45582- 400-21	FILE No. 206-E-4									
CHECKED BY RAP DATE 04/05/22	PAGE											

LOT 10
BLOCK 701
N/J TRUSTEES OF PRINCETON
UNIVERSITY/600 COLLEGE RD LLC.
4 STORY MASON BUILDING
1920

TREE LIST		
TREE #	COMMON NAME	DIAMETER (INCHES)
246		5
247		5
248		4
249		4
250		5
251		4
252		4
253		5
254		5
255		4
256		4
257		4
258		3
259		4
260		4
261		4
262		4
263		4
264		6
265		9
266		8
267		17
268	5 MULTI	
269		7
270		14
271	5 MULTI	
272		19
273		19
274	5 MULTI	
275	5 MULTI	
276		18
277	9, 10 DOUBLE	
278	12 DOUBLE	
279		7
280		6
281		5
282		10
283		6
284		7
285		4
286		6
287		6
288		4
289		5
290		4
291	6, 8, 8 TRIPLE	
292		27
293	12, 8, 8 TRIPLE	
294		12
295		20
296	MAPLE	12
300	MAPLE	7
301	MAPLE	9
304	MAPLE	6
305	DOGWOOD	10
306	DOGWOOD	12
307	DOGWOOD	12
309	MAPLE	4
310	MAPLE	5
312	PINE	6
313	PINE	16
314	PINE	11
316	PINE	13
318	MAPLE	6
319	MAPLE	8

GENERAL NOTES:

1. THE PROJECT HORIZONTAL DATUM SHOWN HEREON IS PER REFERENCE PLAN NO. 1
2. THE PROJECT VERTICAL DATUM SHOWN HEREON IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) (GEOD 128) AS DERIVED FROM NATIONAL GEODETIC SURVEY CONTROL STATIONS USING GNSS RTK OBSERVATIONS
3. ALL DIMENSIONS, ELEVATIONS AND COORDINATES, UNLESS OTHERWISE NOTED ARE IN U.S. SURVEY FEET (AT GRADE).
4. PLANIMETRIC AND TOPOGRAPHIC INFORMATION SHOWN HEREON OUTSIDE OF THE SURVEY LIMITS, IF ANY, ARE FROM RECORD DRAWINGS AND MAY NOT SHOW CURRENT CONDITIONS.
5. NO RESPONSIBILITY OR LIABILITY IS ASSUMED BY THE SURVEYOR FOR LOCATION OF UTILITIES OR EASEMENTS, IF ANY, LOCATED BELOW THE SURFACE OF THE LANDS OR NOT VISIBLE ON THE SURFACE OF THE LANDS SHOWN HEREON.
6. THE INFORMATION WITHIN THE SURVEY PROJECT LIMITS SHOWN HEREON CORRECTLY REPRESENTS THE CONDITIONS FOUND AT AND AS OF THE DATE OF THE FIELD SURVEY, EXCEPT SUCH IMPROVEMENTS OR EASEMENTS, IF ANY, BELOW THE SURFACE AND NOT VISIBLE.
7. MAPPING FEATURES SHOWN SURVEY BEYOND THE PROJECT LIMITS, IF ANY, HAVE NOT BEEN SURVEYED AS PART OF THIS PROJECT AND ARE SHOWN FOR GENERAL INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED UPON AS ACCURATE.
8. SITE FEATURES AND TOPOGRAPHIC INFORMATION WITHIN THE SURVEY PROJECT LIMITS ARE THE RESULT OF A FIELD SURVEY PERFORMED BY VAN NOTE-HARVEY ASSOCIATES, INC. ON NOVEMBER 24 AND DECEMBER 2, 9 OF 2021.
9. THE POSITION OF UNDERGROUND FEATURES HEREON, IF ANY, IS APPROXIMATE UNLESS OTHERWISE NOTED. CONFIRMATION OF THE POSITION AND DEPTH OF ANY UNDERGROUND FEATURE IS REQUIRED PRIOR TO ANY EARTH DISTURBANCE.
10. THE DEPICTION OF UNDERGROUND FEATURES HEREON, IF ANY, IS BASED ON SURFACE AND/OR RECORD INFORMATION. THIS DOES NOT PRECLUDE THE EXISTENCE OR ABSENCE OF UNDERGROUND FEATURES ON, ACROSS, OR ADJACENT TO THE PROJECT SITE.

REFERENCE PLANS:

1. ALTA/ACSM LAND TITLE SURVEY BLOCK 701 LOT 10, (FORMALLY BLOCK 5 LOT 18.05 PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY) SCALE: 1" = 60', DATED MARCH 30, 2006*, PREPARED BY TAYLOR, WISEMAN & TAYLOR (TWT), DRAWING NO. 814-01984.6000-14.
2. EXISTING CONDITIONS SURVEY OF LOT 10 BLOCK 701 PART OVER 600 COLLEGE EAST ROAD PREPARED FOR SJP PROPERTIES SITUATED IN PLAINSBORO TOWNSHIP, MIDDLESEX CO., N.J. SCALE: 1" = 20', DATED AUGUST 18, 2021*. PREPARED BY VAN NOTE-HARVEY ASSOCIATES, INC. ORDER NO. 45501-070-01.
3. "ALTA/ACSM LAND TITLE SURVEY BLOCK 701 LOT 11, (FORMALLY BLOCK 5 LOT 18.07 PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY, SCALE: 1" = 40', DATED MARCH 30, 2006*, PREPARED BY TAYLOR, WISEMAN & TAYLOR (TWT), DRAWING NO. 828-01984.6000-31.

ABBREVIATIONS:

TW = TOP OF WALL
BW = BOTTOM OF WALL
CONC = CONCRETE
C = CURB
BC = BOTTOM OF CURB
DC = DEPRESSED CURB

—	—	MAJOR CONTOUR
—	—	MINOR CONTOUR
X	87.8	GROUND SPOT ELEVATION
X	87.40	GROUND SPOT ELEVATION
STORMWATER INLETS		
DRAINAGE/STORMWATER MANHOLE		
SANITARY MANHOLE		
LIGHT POLE W/BASE (TYP.)		
TREE LOCATION W/DIMETER BREAST HEIGHT (DBH)		

LEGEND:

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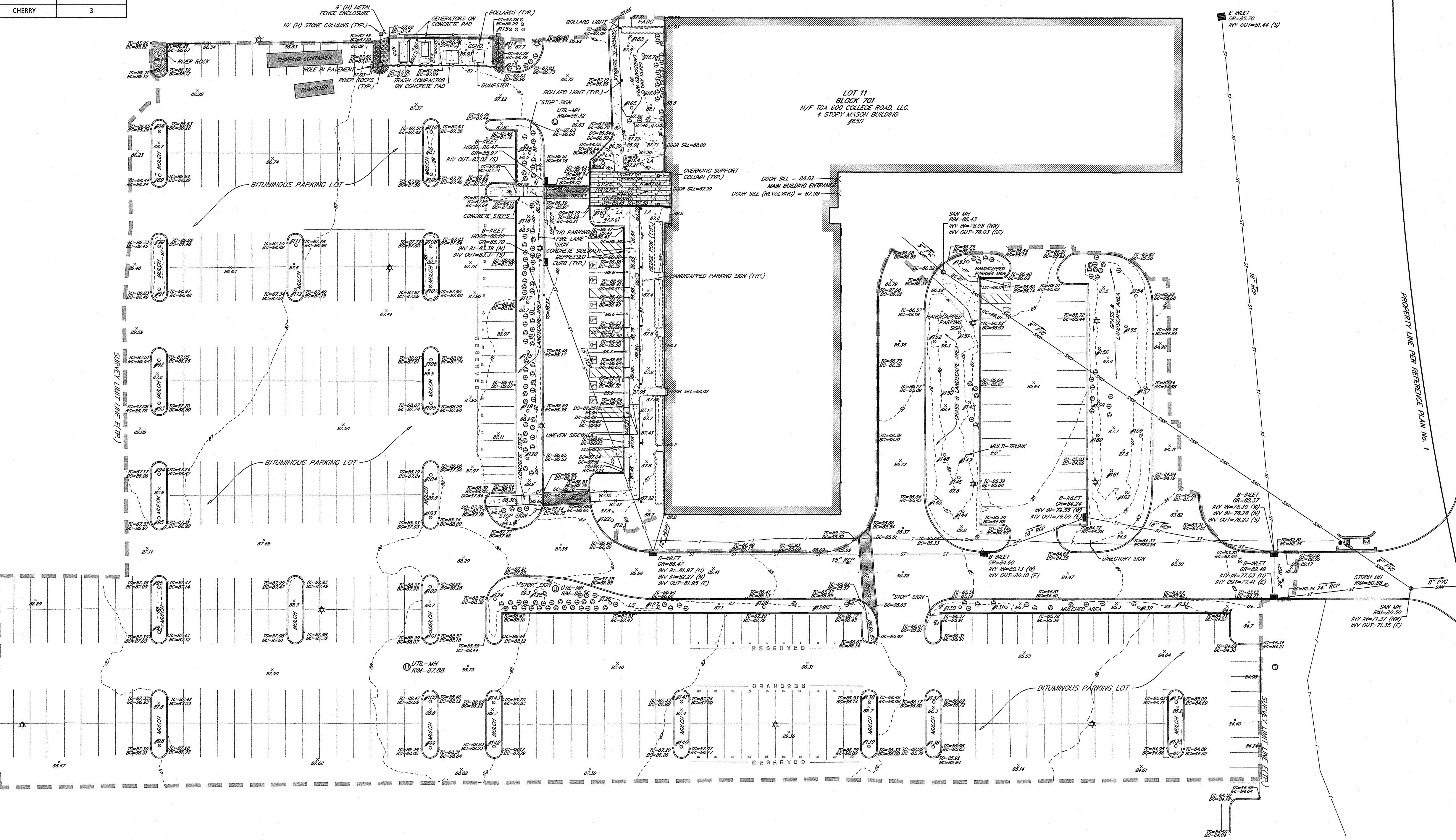
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TREE LIST		
TREE #	COMMON NAME	DIAMETER (INCHES)
87		8
88		7
89		8
90		7
91		6
92		5
93		5
94		7
95		6
96		7
97		8
98		9
99		6
100		7
101		8
102		7
103		6
104		7
105		5
106		7
107		6
108		6
109		6
110		5
111		6
112		6
113		6
114		6
115		16
116		18
117		14
118		9
119		9
120		18
121		10
122		9
123		6
124		12
125		13
126		12
127		9
128		10
129		10
130		11
131		9
132		9
133		10
134		7
135		7
136		7
137		8
138		7
139		6
140		7
141		7
142		8
143		7
144		10
145		8
146		8
147		5 MULTI
148		7
149		12
150		8
151		9
152		5 MULTI
153		10
154		5
155		7
156		5 MULTI
157		6
158		13
159		8

TREE LIST		
TREE #	COMMON NAME	DIAMETER (IN)
160		5 MULTI
161		10
162		7
163		10
164	CHERRY	8
165	CHERRY	4
166	CHERRY	5
167	CHERRY	5
168	CHERRY	3

LOT 10
BLOCK 701
N/F TRUSTEES OF PRINCETON
UNIVERSITY/TGA 600 COLLEGE RD. LL



GENERAL NOTES:

1. THE PROJECT HORIZONTAL DATUM SHOWN HEREON IS PER REFERENCE PLAN No. 1
2. THE PROJECT VERTICAL DATUM SHOWN HEREON IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) (GEOID 12B) AS DERIVED FROM NATIONAL GEODETIC SURVEY CONTROL STATIONS USING GNSS RTK OBSERVATIONS
3. ALL DIMENSIONS, ELEVATIONS AND COORDINATES, UNLESS OTHERWISE NOTED ARE IN U.S. SURVEY FEET (AT GRADE).
4. PLANIMETRIC AND TOPOGRAPHIC INFORMATION SHOWN HEREON OUTSIDE OF THE SURVEY LIMITS, IF ANY, ARE FROM RECORD DRAWINGS AND MAY NOT SHOW CURRENT SITE CONDITIONS.
5. NO RESPONSIBILITY OR LIABILITY IS ASSUMED BY THE SURVEYOR FOR LOCATION OF UTILITIES OR EASEMENTS, IF ANY, LOCATED BELOW THE SURFACE OF THE LANDS OR NOT VISIBLE ON THE SURFACE OF THE LANDS SHOWN HEREON.
6. THE INFORMATION WITHIN THE SURVEY PROJECT LIMITS SHOWN HEREON CORRECTLY REPRESENTS THE CONDITIONS FOUND AT, AND AS OF

13. THIS PLAN WAS PREPARED IN A MANNER CONSISTENT WITH THE CARE ORDINARILY EXERCISED BY OTHER PROFESSIONALS PERFORMING SIMILAR SERVICES IN THE SAME LOCALE, UNDER THE SAME OR SIMILAR CIRCUMSTANCES AND CONDITIONS. THE CONSULTANT MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, WHETHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE SERVICES RENDERED.

14. PRIOR TO ANY EARTH DISTURBANCE, CONTACT "NEW JERSEY ONE CALL" AT 811 OR 1 (800) 222-1111.
15. FRESHWATER WETLANDS, IF ANY, HAVE NOT BEEN DELINEATED OR SHOWN HEREON.
16. FLOODWAY INFORMATION HAS NOT BEEN DETERMINED OR SHOWN HEREON.

LOT 12
BLOCK 701

AINSBORO TOWNSHIP TAX MAP INFORMATION
BLOCK: 701 LOT: 11
SHEET 7

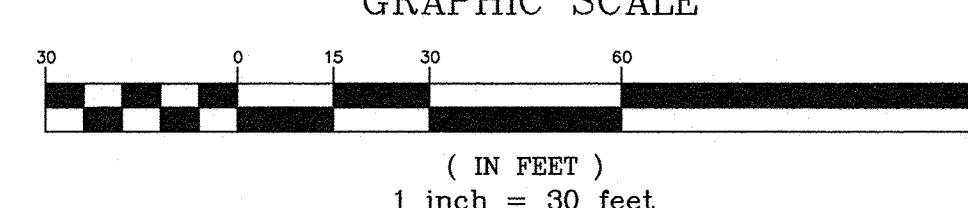
Know what's below.
Call before you dig.

REFERENCE PLATE

1. "ALTA/ACSM LAND TITLE SURVEY BLOCK 701 LOT 11, (FORMALLY BLOCK 5 LOT 18.07 PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY, SCALE: 1" = 40', DATED MARCH 30, 2006". PREPARED BY TAYLOR, WISEMAN & TAYLOR (TWT), DRAWING NO. 826-01984.6000-31.

 DRAINAGE/STORMWATER MANHOLE
 SANITARY MANHOLE
 LIGHT POLE W/BASE (TYP.)


GRAPHIC SCALE



20 DATE OF SIGN.
KENNETH T. SCHILLING
N.J. PROFESSIONAL LAND SURVEYOR, LIC. NO. CS 34486

note-harvey associates, inc.
Planning engineers, planners & land surveyors

V&B
an note-harvey associates

annotateharvey.com **Certificate of Authorization**
No. 24GA28271300
EXISTING CONDITIONS SURVEY


LANDING CONSTRUCTION COMPANY
FOR
650 COLLEGE ROAD EAST
BEING


BEING
PART OF LOT 11, BLOCK 701
PREPARED FOR
SAFARI ENERGY

SAFARI ENERGY
SITUATED IN
ISBORO TOWNSHIP **MER**
E. 1" - 30' **DEC**

BY KTS 2/6/2021		FIELD BK PLTZ-15	ORDER No. 45582	FILE N
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2 1





1 SITE PLAN
G100 SCALE: 1" = 30'-0"




DRAWING TITLE

SITE PLAN

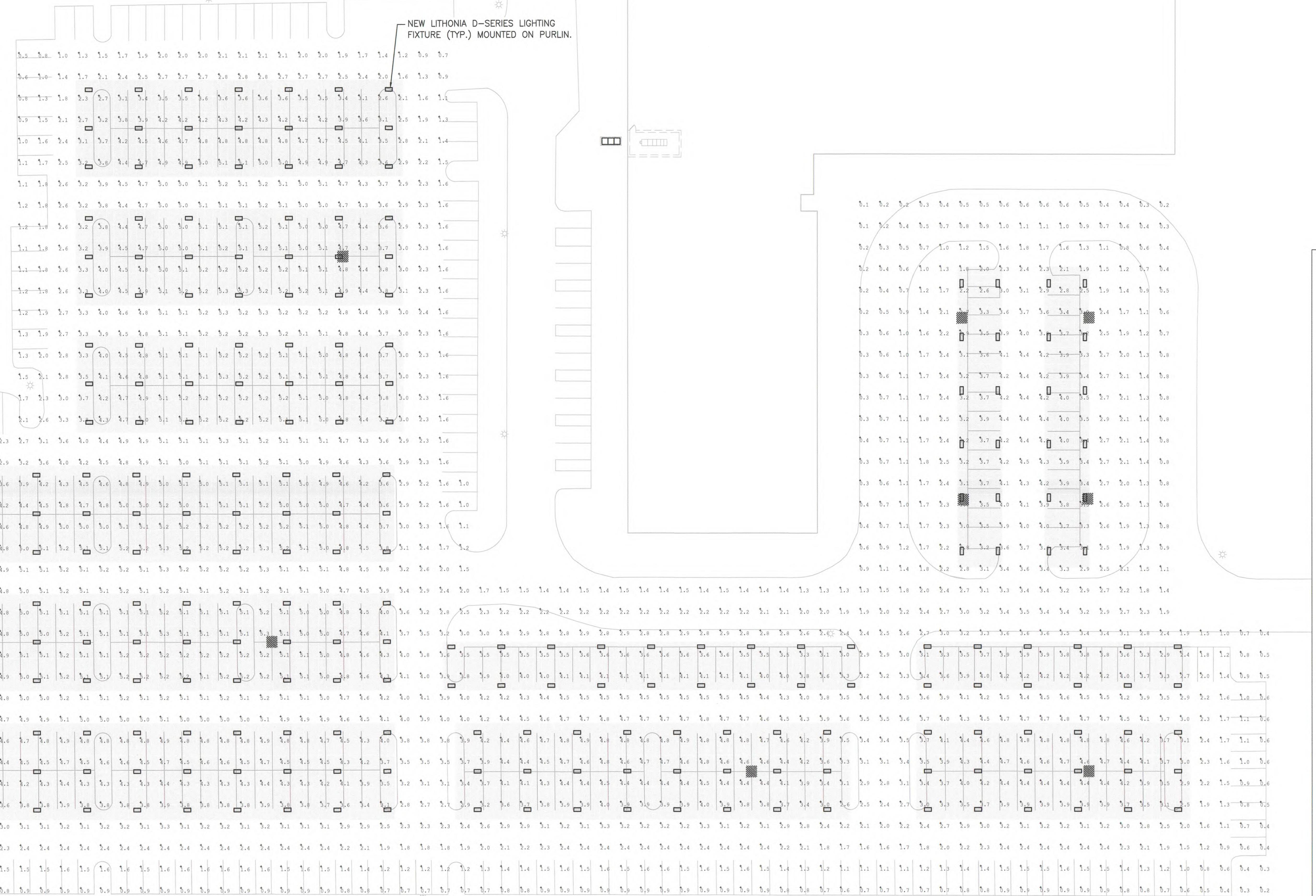
PROJECT	DC SYSTEM SIZE: AC SYSTEM SIZE: MODULE TYPE: MODULE QUANTITY: S TILT, AZIMUTH VARIATION:	DC SYSTEM SIZE: AC SYSTEM SIZE: MODULE TYPE: MODULE QUANTITY: S TILT, AZIMUTH VARIATION:	DEVELOPER	SAFARI ENERGY, LLC. 140 BROADWAY, 4TH FLOOR NEW YORK, NY 10008 API Company www.safarientergy.com	PM	ENG	CHK
PURE POWER ENGINEERING 111 RIVER STREET, HOBOKEN, NJ 07030 NJ LICENSE No. 47878	1,535.76 kW 1,187.50 kW SEG SOLAR 540W 5° TILT, AZIMUTH VARIATION:	1,535.76 kW 1,187.50 kW SEG SOLAR 540W 5° TILT, AZIMUTH VARIATION:	PROJECT #	02478-09	11/23/2021	CONCEPTUAL DESIGN INTERCONNECTION AGREEMENT	MB M/B RI BX BB RI

DRAWING #

G100



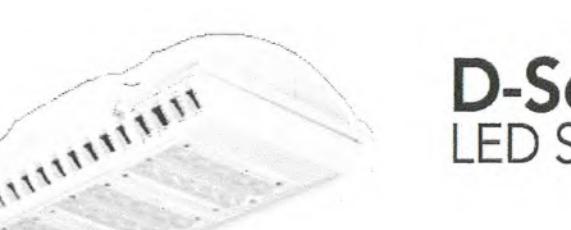
PHOTOMETRIC CALCULATION SUMMARY			
LABEL	AVG	MAX	MIN
CANOPY LIGHTING	3.18 (Fc)	5.3 (Fc)	0.1 (Fc)



1 PHOTOMETRICS PLAN
E151 SCALE: 1" = 30'

LIGHTING LEGEND:

- NEW FIXTURE TO BE INSTALLED UNDERNEATH SOLAR CANOPY
- ▨ EXISTING FIXTURE TO BE REMOVED
- EXISTING FIXTURE TO REMAIN



D-Series
LED Surface Canopy

Introduction
The D-Series LED Surface Canopy luminaire is ideal for covered walkways or drive-thru's, semi-covered outdoor aisles, and walk-in coolers and freezers. Its five optical choices provide the design flexibility to potentially reduce luminaire count while still meeting IES criteria, lowering overall energy consumption.

Its expected service life of over 100,000 hours (20 years of nightime operation) combined with the available motion/ambient sensor offers an extremely low maintenance solution that yields quick payback.

Ordering Information

DSXSC LED	Color	Size	LEDs	Driver Type	Color Temperature	Mounting	Mounting	Mounting
DSXSC LED	White	10C	10 LEDs (one engine) ¹²	35W 350 mA	30K 3000 K	TSE Type V, entryway ⁴	277 ¹	SRM Surface mount (12-inch length supply lead)
DSXSC LED	White	20C	20 LEDs (two engines)	53W 530 mA	40K 4000 K	TSE Type V, medium	128 ¹	SRM
DSXSC LED	White	30C	30 LEDs (three engines)	70W 700 mA	50K 5000 K	TSW Type V, wide	208 ¹	SRM
				1000 1000 mA (1 A)	AMBPX Amber phosphor converted	TSR Type V, rectangular	480 ¹	SRM

EXAMPLE: DSXSC LED 20C 700 10K TSM MVOLT SRM DWHXD

PUREPOWER
ENGINEERING
111 RIVER STREET, HOBOKEN, NJ
WWW.PUREPOWER.NG
NA LICENSE No. 427878

SAFARI ENERGY, LLC.
1407 BROADWAY, 24TH FLOOR
NEW YORK, NY 10018
WWW.SAFARIENERGY.COM

Safari Energy
A PPL Company

Catalog Number
Notes
Type

PROJECT	SOLAR CARPORT SYSTEM AT 650 COLLEGE ROAD 650 COLLEGE ROAD EAST PRINCETON, NJ 08540	SYSTEM SIZE	1,535.76 kW	AC SYSTEM SIZE	1,182.50 kW	MODULE TYPE	2.844	MODULE ORIENTATION	SWH
DSXSC LED	White	10C	10 LEDs (one engine) ¹²	35W 350 mA	30K 3000 K	TSE Type V, entryway ⁴	277 ¹	SRM	Surface mount (12-inch length supply lead)
DSXSC LED	White	20C	20 LEDs (two engines)	53W 530 mA	40K 4000 K	TSE Type V, medium	128 ¹	SRM	Surface mount (12-inch length supply lead)
DSXSC LED	White	30C	30 LEDs (three engines)	70W 700 mA	50K 5000 K	TSW Type V, wide	208 ¹	SRM	Surface mount (12-inch length supply lead)
				1000 1000 mA (1 A)	AMBPX Amber phosphor converted	TSR Type V, rectangular	480 ¹	SRM	Surface mount (12-inch length supply lead)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.3li.com
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2 FIXTURE SPECIFICATION SHEET
E151 SCALE: NONE

PROJECT	PHOTOMETRICS PLAN	DRAWING TITLE	DRAWING #
			E151