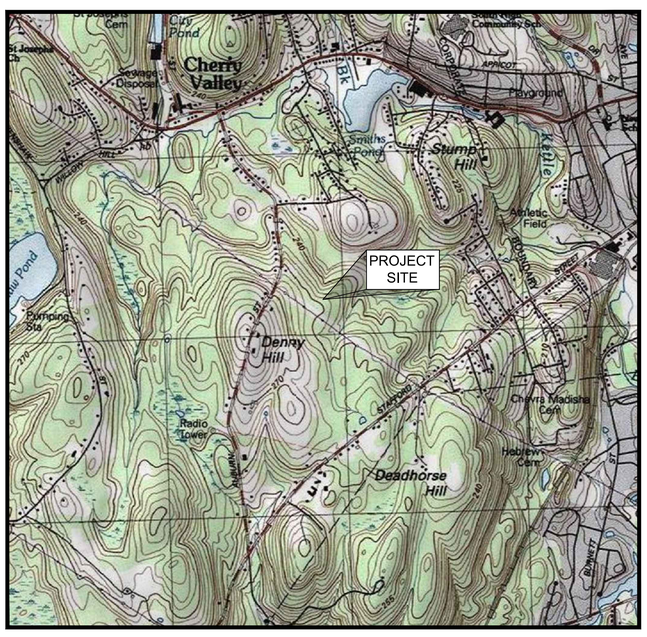
PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF AMEC ENVIRONMENT & INFRASTRUCTURE AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF AMEC ENVIRONMENT & INFRASTRUCTURE.

TOWN OF LEICESTER

1,360.8 KW DC SOLAR PV DEVELOPMENT
STAFFORD STREET
LEICESTER, MASSACHUSETTS
MAY, 2017
ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION



LOCUS MAP
NOT TO SCALE

AERIAL IMAGE
SCALE: 1" = 1000'

DRAWING INDEX

SHEET NUMBER	DRAWING TITLE	DRAWING NUMBER
	COVER SHEET	
1	EXISTING CONDITIONS PLAN	V-101
2	PROPOSED SITE PLAN	C-101
3	CONSTRUCTION, EROSION AND SEDIMENTATION CONTROL DETAILS	C-501

DEVELOPED BY

AMERESCO, INC.
AMERESCO
Green • Clean • Sustainable
111 SPEEN STREET
FRAMINGHAM, MA 01701

PREPARED BY

amec foster wheeler

AMEC MASSACHUSETTS, INC.
271 MILL ROAD
CHELMSFORD, MASSACHUSETTS 01824

U:\ - CAD Projects\Ameresco\NGRID\Leicester - 3652170091\7.0 CAD\7.1 Design - Permitting\Sheets\0 - 3652170091 - G-000.dwg - G-000 - May, 23, 2017 1:59pm - dana.dempsey

GENERAL NOTES:

1. RECORD OWNER OF THE PROPERTY: NEW ENGLAND POWER CO. AS SHOWN ON ASSESSORS MAP 34, BLOCK A, LOT 3 BY VIRTUE OF A RECORDED DEED IN THE WORCESTER COUNTY REGISTRY OF DEEDS IN BOOK 2328, PAGE 512.
2. HORIZONTAL DATUM IS BASED ON NAD83(2011) MASSACHUSETTS STATE GRID COORDINATE SYSTEM MAINLAND ZONE. VERTICAL DATUM IS BASED ON NAVD88 OBTAINED BY SURVEY GRADE GPS OBSERVATIONS WITH OPUS SOLUTIONS. TOPOGRAPHIC SURVEY PERFORMED BY AMEC MASSACHUSETTS, INC. IN MARCH 2017.
3. PROPERTY IS LOCATED IN FLOOD ZONE X. ZONE X DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. ZONE DESIGNATION AS DELINEATED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 801 OF 1075 NUMBER 25027C0801E, FOR THE TOWN OF LEICESTER, WORCESTER COUNTY, MASSACHUSETTS WITH EFFECTIVE DATE OF JULY 4, 2011.
4. AMEC MASSACHUSETTS INC. HAS NOT INDEPENDENTLY VERIFIED THE LOCATION, EXISTENCE, AND SERVICEABILITY OF ANY UTILITIES AND MAKE NO GUARANTEE TO THE COMPLETENESS OR THE ACCURACY OF ANY UTILITIES. ADDITIONAL UTILITIES MAY EXIST IN THE FIELD, WHICH ARE NOT SHOWN ON THIS PLAN. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD PRIOR TO EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES. CALL "DIG SAFE" AT 1-888-344-7233 OR DIAL 811. AMEC MASSACHUSETTS, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
5. WETLANDS DELINEATION AND LOCATION BY AMEC MASSACHUSETTS INC. IN MARCH 2017.

PLAN REFERENCES:

RECORDED IN THE WORCESTER COUNTY REGISTRY OF DEEDS;

1. PLAN BOOK 689, PAGE 44.
2. PLAN BOOK 8, PAGE 13.
3. PLAN BOOK 818, PAGE 116.
4. PLAN BOOK 97, PAGE 36.
5. PLAN BOOK 795, PAGE 35.
6. PLAN BOOK 191, PAGE 79.
7. PLAN BOOK 89, PAGE 74.
8. PLAN BOOK 89, PAGE 79.
9. PLAN BOOK 392, PAGE 98.

LEGEND:

- 800 — MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE
- APPROXIMATE ABUTTERS PROPERTY LINE
- ZO — 100' PROPERTY LINE OFFSET
- WETLAND LINE
- WE-23 — WETLAND FLAG WITH IDENTIFIER
- 25' WETLAND LINE BUFFER (NO DISTURB)
- 100' WETLAND LINE BUFFER
- TRAIL
- FENCE
- STONEWALL
- TREE LINE
- OHE — OVERHEAD ELECTRIC LINE
- UTILITY POLE
- GUY
- ZONING DISTRICT BOUNDARY LINE
- TRANSMISSION LINE TOWER
- 250' POWER LINE RIGHT-OF-WAY
- DHF — DRILL HOLE FOUND
- IPF/IRF — SURVEY MONUMENT FOUND

0' 50' 100' 150'
1" = 100'

ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION

amec foster wheeler

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WEB: WWW.AMECFW.COM

REVISION	DATE	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED
1	05/23/2017	REVISED SOLAR PV ARRAY LAYOUT	RJB	APV
0	05/16/2017	ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION	APV	RJB

PROJECT:
NATIONAL GRID SOLAR PHASE III
1,360.8 KW SOLAR PV ARRAY
LEICESTER, MASSACHUSETTS

TITLE:
EXISTING CONDITIONS PLAN

CLIENT:
AMERESCO, INC.
111 SPEEN STREET
FRAMINGHAM, MA 01701

AMERESCO
Green • Clean • Sustainable

SEAL:
COMMONWEALTH OF MASSACHUSETTS
ANDREW P. VARDAKIS
CIVIL
No. 58524
REGISTERED PROFESSIONAL ENGINEER
5/23/17

DESIGNED BY: APV	DRAWN BY: DED
CHECKED BY: DAA	SCALE: AS SHOWN
PROJECT NUMBER: 3652170091	
DRAWING NUMBER: V-101	
SHEET NUMBER: 1 OF 3	

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GENERAL NOTES:

1. ELECTRICAL DESIGN PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM INFORMATION.

LEGEND:

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- TRANSMISSION LINE TOWER
- 250' POWER LINE RIGHT-OF-WAY
- DHF — DRILL HOLE FOUND
- IPF/IRF — SURVEY MONUMENT FOUND
- PROPOSED 5x5 SOLAR PANEL RACK (1 / C-501)
- PROPOSED 5x4 SOLAR PANEL RACK (1 / C-501)
- PROPOSED EQUIPMENT PAD
- TC — PROPOSED TREE CLEARING LINE
- X — PROPOSED FENCE
- UGE — PROPOSED UNDERGROUND ELECTRIC
- OHW — PROPOSED OVERHEAD ELECTRIC
- SB — PROPOSED SEDIMENT BARRIER (3 / C-501)

0' 50' 100' 150'
1" = 100'

ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION

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REVISION	DATE	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED
1	05/23/2017	REVISED SOLAR PV ARRAY LAYOUT	RJB	APV
0	05/16/2017	ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION	APV	RJB

PROJECT:
NATIONAL GRID SOLAR PHASE III
1,360.8 KW SOLAR PV ARRAY
LEICESTER, MASSACHUSETTS

TITLE:
PROPOSED SITE PLAN

CLIENT:
AMERESCO, INC.
111 SPEEN STREET
FRAMINGHAM, MA 01701

AMERESCO
Green • Clean • Sustainable

SEAL:
COMMONWEALTH OF MASSACHUSETTS
ANDREW P. VARDAKIS
CIVIL
No. 22424
REGISTERED PROFESSIONAL ENGINEER
5/23/17

DESIGNED BY: APV	DRAWN BY: DED
CHECKED BY: DAA	SCALE: AS SHOWN
PROJECT NUMBER: 3652170091	
DRAWING NUMBER: C-101	
SHEET NUMBER: 2 OF 3	

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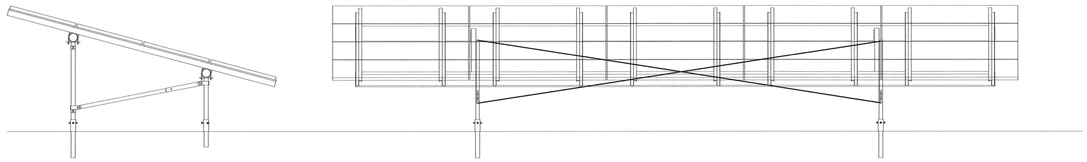
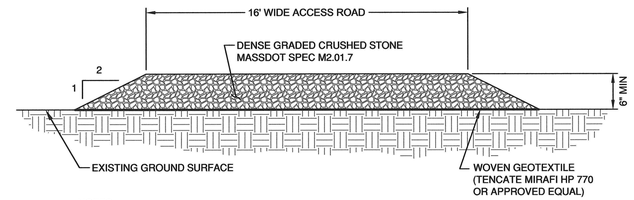


NOTE:

1. DESIGN FOR FOUNDATIONS, RACKING, GROUND SCREWS, AND MODULES BY OTHERS. DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY.

SOLAR PV ARRAY - GROUND SCREW FOUNDATION (1)

NOT TO SCALE

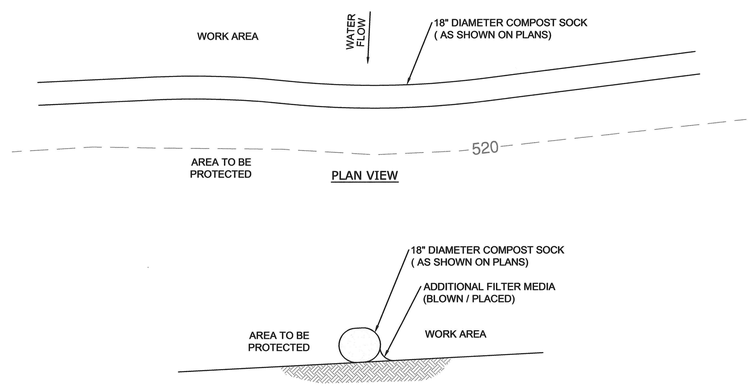


NOTES:

1. ACCESS ROAD TO BE CONSTRUCTED OF A MINIMUM 6" OF DENSE GRADED CRUSHED STONE.
2. WOVEN GEOTEXTILE TO BE PLACED BETWEEN THE GROUND SURFACE AND THE CRUSHED STONE.
3. CRUSHED STONE SHALL BE COMPACTED TO A MINIMUM 92% OF MAXIMUM DRY DENSITY (MODIFIED PROCTOR - ASTM D 1557) AND ACHIEVE A FIRM AND NON-YIELDING CONDITION.

ACCESS ROAD (2)

NOT TO SCALE

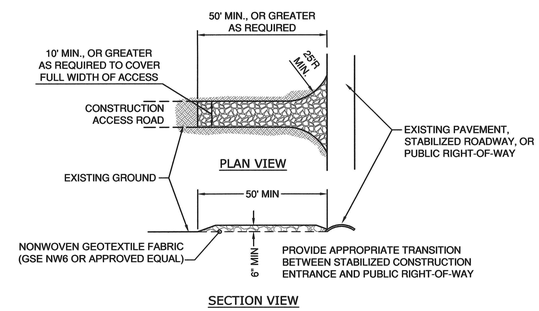


NOTES:

1. COMPOST SOCK TO BE FILTREXX SOXX OR APPROVED EQUAL.
2. FILTER MEDIA FILL TO MEET MANUFACTURER'S REQUIREMENTS.
3. STAKE COMPOST SOCKS IN PLACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. UPON COMPLETION, COMPOST MATERIAL TO BE DISPERSED AND SPREAD ON SITE WHERE DIRECTED BY ENGINEER. FILTREXX FABRIC TO BE REMOVED.

SEDIMENT BARRIER - COMPOST SOCK (3)

NOT TO SCALE



NOTES:

1. STONE TO BE 1"-3" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FT.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TEN (10) FT. MIN, BUT NOT LESS THAN THE FULL TRAVELED WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS OR BENEATH THE ENTRANCE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE (4)

NOT TO SCALE

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REVISION	DATE	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED
1	03/23/2017	REVISED SOLAR PV ARRAY LAYOUT	RJB	APV
0	03/16/2017	ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION	APV	RJB

PROJECT: NATIONAL GRID SOLAR PHASE III
1,360.8 KW SOLAR PV ARRAY
LEICESTER, MASSACHUSETTS

TITLE: **CONSTRUCTION, EROSION AND SEDIMENTATION CONTROL DETAILS**

CLIENT: AMERESCO, INC.
111 SPEEN STREET
FRAMINGHAM, MA 01701

AMERESCO Green • Clean • Sustainable

SEAL: COMMONWEALTH OF MASSACHUSETTS ANDREW P VARDAKIS CIVIL No. 52824 REGISTERED PROFESSIONAL ENGINEER
5/23/17

DESIGNED BY: APV	DRAWN BY: DED
CHECKED BY: DAA	SCALE: AS SHOWN

PROJECT NUMBER: 3652170091

DRAWING NUMBER: C-501

SHEET NUMBER: 3 OF 3

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