NEWBURY LANDFILL SOLAR PROJECT

PROPOSED ±582.4 kW(DC) SOLAR PHOTOVOLTAIC (PV) PROJECT
75 BOSTON ROAD, NEWBURY, MA

SOLAR PV SYSTEM INFORMATION

SYSTEM SIZE: ±582.4 kW(DC) / 432.9 kW(AC)
MODULE TYPE: HANWHA
MODULE POWER RATING: 400-WATT
MODULE QUANTITY: ±1,456
INVERTER TYPE: SOLAR EDGE SE 33.3 kW
INVERTER QUANTITY: 13
RACKING TYPE: BALLASTED GROUND MOUNT
RACKING CONFIGURATION: PORTRAIT 1L
SYSTEM TILT ANGLE: 20° TO 35°
SYSTEM AZIMUTH ANGLE: VARIES

NOTE:
1. REFERENCE THE ELECTRICAL AND RACKING CONSTRUCTION DRAWINGS FOR FINAL SYSTEM SPECIFICATIONS, COMPONENTS, AND DETAILS.

SITE LOCATION MAP
SITE AERIAL MAP

MASSACHUSETTS MUNICIPAL MAP

SITE LOCUS MAP

ZONING INFORMATION

ZONE: RESIDENTIAL/AGRICULTURAL (R-AG)
DIMENSIONAL REQUIREMENTS
MIN. LOT AREA: 40,000 SQUARE FEET
SETBACK FROM PROPERTY LINE: 10 FEET (MIN.)
SETBACK FROM STREET: 20 FEET (MIN.)
MAX. STRUCTURE HEIGHT: 35 FEET

NOTES:
1. SETBACKS AND QUANTITIES PER THE TOWN OF NEWBURY ZONING BYLAWS TABLE OF DIMENSIONAL REQUIREMENTS.

ACE Solar
1600 Osgood Street, Suite 2043
North Andover, MA 01845
800.223.1462
www.myacesolar.com

SITE INFORMATION

PROPERTY ID: R36-0-27
LAND OWNER: TOWN OF NEWBURY
LOT SIZE: 26.9173 ACRES
LAND USE CODE: 930

SOLAR PV SYSTEM OWNER
ALLIANCE NEWBURY I LLC
1600 OSGOOD STREET, SUITE 2043
NORTH ANDOVER, MA 01815
978-884-2903

PLANNING BOARD SUBMISSION
06/22/2021
10/28/2021
2
3

PLANNING COMMENTS
06/22/2021
04/09/2021
1

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CONSTRUCTION NOTES:

The following notes are provided as a summary reference for the construction only. Should you have any questions concerning the specifications or methodology of the construction, please contact the team at Weston & Sampson Engineers, Inc. at (617) 828-3200. This document is intended as a guide to the construction process and is not a substitute for the actual specifications and drawings provided. It is the responsibility of the contractor to interpret the specifications and drawings accurately and to ensure that the finished product meets the standards and requirements specified. Any discrepancies or questions should be brought to the attention of Weston & Sampson Engineers, Inc. immediately. The contractor is responsible for adhering to all applicable codes, regulations, bylaws, and ordinances. The contractor shall ensure that all work is done in compliance with the specifications and drawings, and that the finished product meets the required standards.

M1.03.0, TYPE B.
GRAVEL
STABILIZATION
SOIL ENVIRONMENTS.

FROM FULL COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, BYLAWS, AND ORDINANCES.

NO ADDITIONAL COST TO THE OWNER.

SEED WHERE NECESSARY.

CULVERTS:

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NOTES:

1. BALL ENDS AND DESIGN ARE SUBJECT TO CHANGE BASED ON MANUFACTURER'S DESIGN.

2. SCALE: N.T.S.

TYPICAL BALLASTED CHAIN LINK FENCE

TYPICAL SLAB SECTION DETAIL

TYPICAL CIVIL DETAILS

TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

TYPICAL TEMPORARY CULVERT CROSSING DETAIL

TYPICAL PANEL PIPE DETAIL

TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

TYPICAL CIVIL DETAILS I

NOTES:

1. ALL CONDUIT THAT IS LOCATED ABOVE THE LANDFILL COVER SYSTEM SHALL BE RUN IN ABOVE GROUND CABLE TRAY IN ACCORDANCE WITH ELECTRICAL CODE REQUIREMENTS BY OTHERS.

2. REFER TO ELECTRICAL DRAWINGS FOR CONDUIT SIZE AND LOCATION.

3. THIS DETAIL IS FOR ILLUSTRATIVE PURPOSES ONLY.

4. DRAWINGS FOR CONDUIT SIZE AND LOCATION ARE ISSUED FOR INFORMATIONAL PURPOSES ONLY.

5. SCALE: N.T.S.

TYPICAL ABOVE GROUND CABLE TRAY DETAIL

TYPICAL BALLASTED CHAIN LINK FENCE

TYPICAL ABOVE GROUND CONCRETE ENCASED CONDUIT

TYPICAL PANEL PIPE DETAIL

TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

TYPICAL TEMPORARY CULVERT CROSSING DETAIL

NOTES:

1. PROVIDE BALLAST BLOCKS WITH SUFFICIENT SIZE AND WEIGHT TO SUPPORT FENCING.

2. FINAL COMPONENTS AND CONFIGURATION SUBJECT TO CHANGE BASED ON MANUFACTURER'S DESIGN.

3. UNLESS OTHERWISE REQUIRED.

4. DISTANCE BETWEEN THE BASE SHALL BE CONTINUOUS AND 7'-0" (MINIMUM) FROM THE NEARST STRUCTURAL ELEMENT TO BE PROTECTED.

5. TERMINAL STRIPS ("0" SPACING)

6. TERMINAL GAME ("0" SPACING)

7. TERMINAL JUMP ("0" SPACING)

8. DANGER OF EQUIPMENT REMOVAL, EXISTING ROADWAY SURFACE EXPENDED EDGES (TYP.)

9. MEMBRANE LINER (TYP.)

10. DENSE GRADED CRUSHED STONE OVER LANDFILL COVER SYSTEM (SEE NOTE 3)

11. NON-WOVEN FILTER FABRIC

12. TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

13. SCALE: N.T.S.

14. TYPICAL PANEL PIPE DETAIL

15. SCALE: N.T.S.

16. TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

17. SCALE: N.T.S.

18. TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

19. SCALE: N.T.S.

20. TYPICAL TEMPORARY CULVERT CROSSING DETAIL

21. SCALE: N.T.S.

22. TYPICAL CIVIL DETAILS I

23. SCALE: N.T.S.

24. TYPICAL PANEL PIPE DETAIL

25. SCALE: N.T.S.

26. TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

27. SCALE: N.T.S.

28. TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

29. SCALE: N.T.S.

30. TYPICAL TEMPORARY CULVERT CROSSING DETAIL

31. SCALE: N.T.S.

32. TYPICAL CIVIL DETAILS I

33. SCALE: N.T.S.

34. TYPICAL PANEL PIPE DETAIL

35. SCALE: N.T.S.

36. TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

37. SCALE: N.T.S.

38. TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

39. SCALE: N.T.S.

40. TYPICAL TEMPORARY CULVERT CROSSING DETAIL

41. SCALE: N.T.S.

42. TYPICAL CIVIL DETAILS I

43. SCALE: N.T.S.

44. TYPICAL PANEL PIPE DETAIL

45. SCALE: N.T.S.

46. TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

47. SCALE: N.T.S.

48. TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

49. SCALE: N.T.S.

50. TYPICAL TEMPORARY CULVERT CROSSING DETAIL

51. SCALE: N.T.S.

52. TYPICAL CIVIL DETAILS I

53. SCALE: N.T.S.

54. TYPICAL PANEL PIPE DETAIL

55. SCALE: N.T.S.

56. TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

57. SCALE: N.T.S.

58. TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

59. SCALE: N.T.S.

60. TYPICAL TEMPORARY CULVERT CROSSING DETAIL

61. SCALE: N.T.S.

62. TYPICAL CIVIL DETAILS I

63. SCALE: N.T.S.

64. TYPICAL PANEL PIPE DETAIL

65. SCALE: N.T.S.

66. TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

67. SCALE: N.T.S.

68. TYPICAL TEMPORARY ACCESS ROAD ON LANDFILL DETAIL

69. SCALE: N.T.S.

70. TYPICAL TEMPORARY CULVERT CROSSING DETAIL

71. SCALE: N.T.S.

72. TYPICAL CIVIL DETAILS I

73. SCALE: N.T.S.

74. TYPICAL PANEL PIPE DETAIL

75. SCALE: N.T.S.

76. TYPICAL RIPRAP FOR PANEL PIPE END DETAIL

77. SCALE: N.T.S.
13. STABILIZED CONSTRUCTION ENTRANCE (ANTI-TRACKING PAD)

SCALE: N.T.S.

NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS. INCLUDE ANY NECESSARY APPLICATION OF LIQUEPENTILE, AND BEEF NOTE. WHEN USING CELLULOSE BEEF DO NOT COVER PREPARED AREA. CELLULOSE MUST BE INSTALLED WITH PAPER SIDES UP. CONSIDER USING 12" PAPER SIDED SOILS TO HELP CONTROL HUMIDITY AND TO LIMIT BLOOMING OF THE BLANKET.

2. INSTALL A COMPOUND COMPOST FILTER TUBE ON SLOPE DETAIL (ISOMETRIC VIEW) ACROSS THE SLOPE, WITH EACH SECTION (5') BEING SEPARATED BY A MINIMUM DISTANCE OF 12" TO PREVENT THE COMPOST FILTER TUBE FROM BEING COMPACTED OR COMPRESSED. THE COMPOST FILTER TUBE SHALL BE HELD IN PLACE WITH CONCRETE BLOCKS OR SAND BAGS. THE COMPOST FILTER TUBE MAY BE PLACED ON THE LANDFILL COVER SYSTEM. THE COMPOST FILTER TUBE MAY BE PLACED ON THE LANDFILL COVER SYSTEM.

3. THE EROSION CONTROL BLANKET INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE BLANKETS SHALL BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES/STAKES THROUGH THE BLANKET AT THE REQUIRED INTERVALS. FOLLOW THE PROPER INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER.

4. THE SIDE OF THE COMPOST FILTER TUBE SHALL BE COVERED WITH A MINIMUM OF 3"

5. THE COMPOST FILTER TUBE SHALL BE HELD IN PLACE WITH CONCRETE BLOCKS OR SAND BAGS. THE COMPOST FILTER TUBE MAY BE PLACED ON THE LANDFILL COVER SYSTEM. THE COMPOST FILTER TUBE MAY BE PLACED ON THE LANDFILL COVER SYSTEM.