

Plan Set

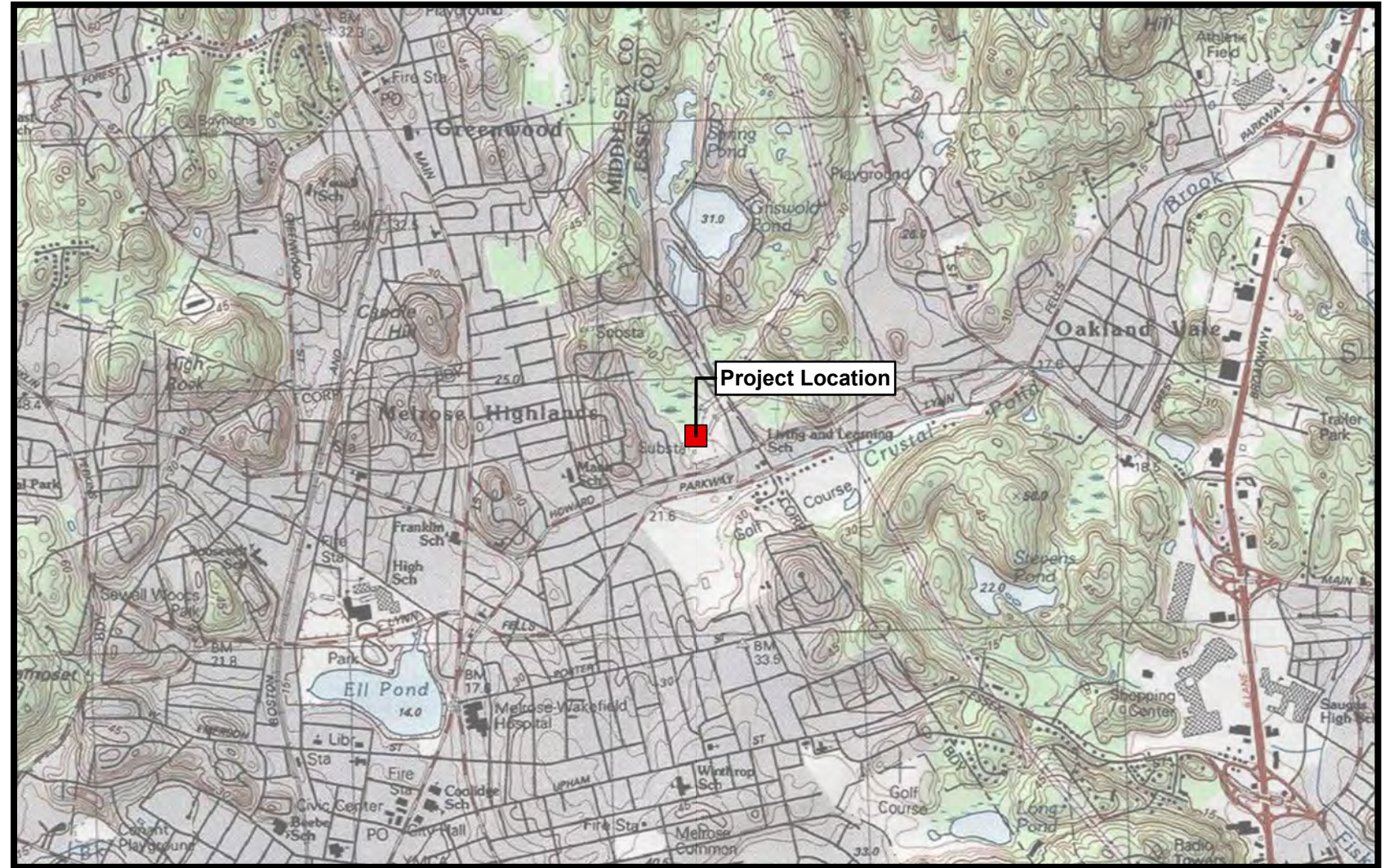
MassDEP Request for
Determination of Applicability
Date Issued: 12/10/2021

Sheet Index

Number	Drawing Title	Latest Issue
1	Notes	12/10/2021
2	Soil Erosion and Sediment Control Plan	12/10/2021
3-4	Detail Sheet	12/10/2021

Melrose Substation Nos. 2 and 25 Proposed Wave Trap and Foundation

2240 Howard Street Melrose, MA



Site Location Map



nationalgrid



EXISTING CONDITIONS INFORMATION:
REFERENCES:

1. WETLAND DELINEATION WAS PERFORMED BY VHB, PROVIDENCE OFFICE. STRUCTURE AND FLAG LOCATIONS WERE LOCATED BY A GLOBAL POSITIONING SYSTEM (GPS) FIELD SURVEY CONDUCTED BY VHB SEPTEMBER 2020. THIS SURVEY CONFORMS TO A CLASS IV STANDARD AS DEFINED IN THE PROCEDURAL AND TECHNICAL STANDARDS FOR PERFORMING LAND SURVEYING IN THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS.

EROSION AND SEDIMENT CONTROL NOTES:

1. PRIOR TO STARTING ANY SITE WORK, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. A SOIL EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN DESIGNED TO PROTECT ON-SITE WETLANDS AND WATERCOURSES AND OFF-SITE AREAS DURING AND AFTER CONSTRUCTION.
3. IN AREAS WHERE HIGH RUNOFF VELOCITIES OR HIGH SEDIMENT LOADS ARE EXPECTED, TWO LINES OF COMPOST FILTER SOCK (CFS) WILL BE INSTALLED BACK TO BACK.
4. TYPICAL CRUSHED-STONE CONSTRUCTION ENTRANCE/EXITS WILL BE CONSTRUCTED AT EACH STREET ACCESS POINT WITHIN THE PROJECT AREA.
5. ONCE WORK IS COMPLETE, FINAL SURFACE TREATMENT CONSISTING OF STRAW OR CELLULOSE MULCH WILL BE APPLIED TO STABILIZE THE DISTURBED AREAS. ANY SOIL DISTURBANCE ASSOCIATED WITH EQUIPMENT ACCESS TO STRUCTURES OR STRUCTURE EXCAVATIONS SHOULD BE MULCHED WITH STRAW ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.
6. IN ACCORDANCE WITH THE RIPDES GENERAL PERMIT, ALL STORMWATER CONTROL MEASURES, DISTURBED AREAS, AREAS USED FOR THE STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION (INCLUDING UNSTABILIZED SOIL STOCKPILES), DISCHARGE LOCATIONS AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AS OUTLINED IN PART IV OF THIS PERMIT, MUST BE INSPECTED BY OR UNDER THE SUPERVISION OF THE APPLICANT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT WHICH GENERATES AT LEAST 0.25 INCHES OF RAINFALL PER TWENTY-FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF. SUCH AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE WATERS OF THE STATE OR A SEPARATE STORM SEWER SYSTEM. ALL BMPs SHALL BE MAINTAINED TO PREVENT UNCONTROLLED RELEASES OF MEASURABLE AMOUNTS OF SEDIMENT OR SEDIMENT LADEN WATER FROM TRAVELING BEYOND THE LIMITS OF DISTURBANCE.
7. SEDIMENT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6 INCHES DEEP OR AS NEEDED.
8. DAMAGED OR DETERIORATED EROSION/SEDIMENTATION CONTROL ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.
9. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. ONCE THE SITE IS STABILIZED, THE STRAW BALES WILL BE REMOVED OR BROKEN UP AND SPREAD AS MULCH. ALL OTHER CONTROLS SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
10. IN THE EVENT OF A FUEL SPILL OR EQUIPMENT MALFUNCTION RESULTING IN A RELEASE OF HAZARDOUS MATERIAL, ALL WORK WILL BE STOPPED IN THIS AREA UNTIL THE RELEASE/SPILL IS CLEANED UP.
11. EQUIPMENT USED FOR CONSTRUCTION WILL BE PROPERLY MAINTAINED AND OPERATED TO REDUCE THE CHANCES OF SPILL OCCURRENCES OF PETROLEUM PRODUCTS. REFUELING OF EQUIPMENT WILL BE REQUIRED TO CARRY SPILL CONTAINMENT AND PREVENTION DEVICES (I.E., ABSORBENT PADS, CLEAN UP RAGS, FIVE GALLON CONTAINERS, ABSORBENT MATERIAL, ETC.) AT ALL TIMES. IN ADDITION, MAINTENANCE EQUIPMENT AND REPLACEMENT PARTS FOR CONSTRUCTION EQUIPMENT WILL BE ON HAND TO REPAIR FAILURES AND STOP A SPILL IN THE EVENT OF EQUIPMENT MALFUNCTION.
12. ANY HAZARDOUS WASTE SPILLS SHALL BE CLEANED UP IMMEDIATELY, AND IF THE SPILL AMOUNT IS EQUAL TO OR EXCEEDS THE EPA REPORTABLE QUANTITY (RQ) FOR THAT SUBSTANCE IN ACCORDANCE WITH 40 CFR PARTS 1010, 117, OR 302, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE NATIONAL RESPONSE CENTER AT 1-800-424-8802. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR SUBMITTING IN WRITING A DESCRIPTION OF THE RELEASE TO THE EPA REGIONAL OFFICE AND RIDEM PROVIDING THE DATE AND CIRCUMSTANCES OF THE RELEASE AND THE STEPS TO BE TAKEN TO PREVENT ANOTHER RELEASE. DIRECTIONS FOR CLEANING UP SPILLS SHALL BE CLEARLY POSTED AT A DESIGNATED ON-SITE LOCATION, AND CONSTRUCTION PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND LOCATION OF CLEANUP SUPPLIES. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE GEAR AND HAVE PROPER TRAINING TO PREVENT INJURY FROM CONTACT WITH ANY HAZARDOUS SUBSTANCES.
13. NO GRADE CHANGES ARE PROPOSED.

**Melrose Substation Nos. 2 and 25
Proposed Wave Trap and Foundation**

Notes Sheet

2240 Howard Street Melrose, MA

Page 1 of 4

Date: 12/10/2021

Source: RIGIS, National Grid, VHB



ENVIRONMENTAL GUIDANCE	Doc. No.	EG-303NE
	Page: 7-4	Rev. No. 4
	Date	02/20/18
SUBJECT Access, Maintenance and Construction Best Management Practices		Reference EP No. 3 - Natural Resource Protection (Chapter 6)
BMP DETAIL SCALE: NONE		
NOTES <ol style="list-style-type: none"> 1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST. 2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS. 3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS. 4. MESH CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL WITH OPENING SIZES BETWEEN 1/8" - 3/8". 5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2". 6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST. 		
BMP PICTURE		
<small>* PICTURE AND DETAIL PROVIDED BY FILTREXX LAND IMPROVEMENT SYSTEMS APPROVED BY VICE PRESIDENT, ENVIRONMENTAL SERVICES PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.</small>		SEC-4 SILT SOXX *

Detail #1

ENVIRONMENTAL GUIDANCE	Doc. No.	EG-303NE
	Page: 7-39	Rev. No. 4
	Date	02/20/18
SUBJECT Access, Maintenance and Construction Best Management Practices		Reference EP No. 3 - Natural Resource Protection (Chapter 6)
BMP DETAIL SCALE: NONE		
NOTE: ONCE PUMPING COMMENCES, THE DIRT BAG SHALL BE MONITORED FREQUENTLY TO ASSURE THAT THE CONNECTIONS ARE SECURELY FASTENED AND THE RATE OF WATER DELIVERY TO THE STRUCTURE IS LOW ENOUGH TO PREVENT UNFILTERED WATER FROM FLOWING FROM THE HOSE CONNECTIONS OR BAG.		
BMP PICTURE		
<small>* PICTURE AND DETAIL PROVIDED BY ACF ENVIRONMENTAL APPROVED BY VICE PRESIDENT, ENVIRONMENTAL SERVICES PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.</small>		AA-12 DIRTBAG *

Detail #2

**Melrose Substation Nos. 2 and 25
Proposed Wave Trap and Foundation**

Detail Sheet 1

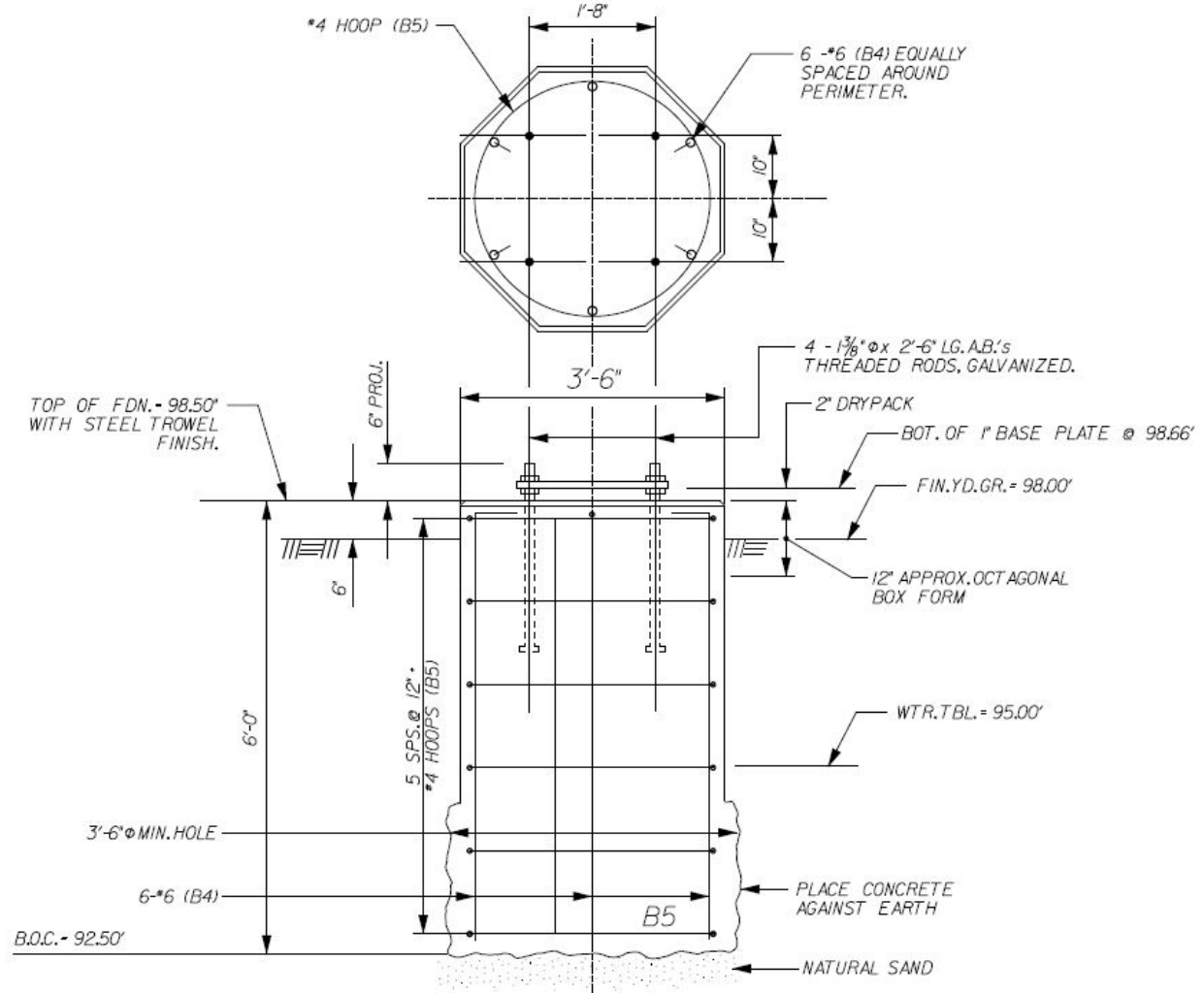
2240 Howard Street Melrose, MA

Page 3 of 4

Date: 12/10/2021

 <p style="text-align: center;">ENVIRONMENTAL GUIDANCE</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">Doc. No.</td> <td style="font-size: small;">EG-303NE</td> </tr> <tr> <td style="font-size: small;">Page</td> <td style="font-size: small;">7-42 Rev. No. 4</td> </tr> <tr> <td style="font-size: small;">Date</td> <td style="font-size: small;">02/20/18</td> </tr> </table> <p style="font-size: small;">Reference EP No. 3 - Natural Resource Protection (Chapter 6)</p>	Doc. No.	EG-303NE	Page	7-42 Rev. No. 4	Date	02/20/18
Doc. No.	EG-303NE						
Page	7-42 Rev. No. 4						
Date	02/20/18						
SUBJECT Access, Maintenance and Construction Best Management Practices	Reference EP No. 3 - Natural Resource Protection (Chapter 6)						
<p>BMP DETAIL</p> <p>SCALE: NONE 8' / 8"</p>  <p style="text-align: center;">CROSS SECTION</p>							
<p>NOTES:</p> <ol style="list-style-type: none"> 1. PRODUCT TO BE OUTPAK PVC CONCRETE WASHOUT OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST. 2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT. 3. SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT. 4. THE CONCRETE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE AND OTHER LIQUID WASTE. 5. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE. 6. DO NOT MIX EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE. 7. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. 8. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS. 9. LOCATE WASHOUT AREA AT LEAST 50' FROM STORM DRAIN, OPEN DITCHES, OR WATERBODIES. COORDINATE LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST. 10. WASH OUT WASTES INTO THE OUTPAK WASHOUT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY. 11. A SECURE, NON-COLLAPSING, NON-WATER COLLECTING COVER MUST BE PLACED OVER CONCRETE WASHOUT PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW OF PRECIPITATION. 							
<p>BMP PICTURE</p> 							
<p>* PICTURE AND DETAIL PROVIDED BY OUTPAK WASHOUT APPROVED BY VICE PRESIDENT, ENVIRONMENTAL SERVICES PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFODNET SITE.</p>							
<p>AA-14 OUTPAK CONCRETE WASHOUT*</p>							

Detail #3



FOUNDATION PIER P4 2 - REQ'D

VOL. CONC. - 2.2 • CU. YDS. E.A.
SCALE: 3/4" = 1'-0"

Detail #4

**Melrose Substation Nos. 2 and 25
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Detail Sheet 2

2240 Howard Street Melrose, MA

Page 4 of 4