

Commonwealth of Massachusetts

Executive Office of Environmental
Affairs ■ MEPA Office

ENF

**Environmental
Notification Form**

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: *13033*
MEPA Analyst: *Deirdre Buckley*
Phone: 617-626-*1044*

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: New Bourne Elementary School & Early Childhood Center		
Street: High Ridge Road		
Municipality: Bourne, MA	Watershed: Buzzard's Bay	
Universal Transverse Mercator Coordinates: 4,624,500 – 368,500	Latitude: 41°.45'.31" N	Longitude: 70°.35'.46" W
Estimated commencement date: 11/ 2005	Estimated completion date: 8/2007	
Approximate cost: \$ 26,850,000 in 2006 \$	Status of project design: 10	%complete
Proponent: Town of Bourne		
Street: 24 Perry Road		
Municipality: Bourne	State: MA	Zip Code: 02532
Name of Contact Person From Whom Copies of this ENF May Be Obtained: David McKinley		
Firm/Agency: Kaestle Boos Associates, Inc.	Street: 416 Slater Road	
Municipality: New Britain	State: CT	Zip Code: 06050-2590
Phone: 1-860-229-0361	Fax: 1-860-229-5303	E-mail: dmckinley@kba-architects.com

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No

Has this project been filed with MEPA before?
 Yes (EOEA No. _____) No

Has any project on this site been filed with MEPA before?
 Yes (EOEA No. 6747) No

Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
 a Single EIR? (see 301 CMR 11.06(8)) Yes No
 a Special Review Procedure? (see 301CMR 11.09) Yes No
 a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No
 a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres):
60% reimbursement from Commonwealth of Massachusetts, Department of Education, School Building Assistance Program

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify _____) No

List Local or Federal Permits and Approvals: Town of Bourne Waste Water Treatment Permit, Town of Bourne Curb Cut Permit, Town of Bourne Site Plan Review

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|--|---------------------------------------|--|
| <input checked="" type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input checked="" type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>
Total site acreage	122.26			
New acres of land altered		27		
Acres of impervious area	0	8.75	8.75	
Square feet of new bordering vegetated wetlands alteration		0		
Square feet of new other wetland alteration		0		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	0	126,211	126,211	
Number of housing units	0	0	0	
Maximum height (in feet)	0	35	35	
TRANSPORTATION				
Vehicle trips per day	0	1444	1444	
Parking spaces	0	318	318	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	9,196	9,196	
GPD water withdrawal	0	0- town water	0	
GPD wastewater generation/ treatment	0	8,360	8,360	
Length of water/sewer mains (in miles)	0	0	0	

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

- Yes (Specify _____) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify _____) No

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify _____) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative

The site is located along the north-west side of Scenic Route 6, just to the east of the Bourne Bridge area. The site is a 122.26 acre wooded lot, with bordering residential development to the north-west, two operating Cranberry bogs to the south-east, Scenic Route 6 and the Cape Cod Canal to the east and a wooded lot to the north. The site is located within an R-40 (residential) zoning district and the Bournedale District of Critical Planning Concern (DCPC). Protecting water resources and open space are the driving elements behind this District designation. The site encloses a water tower, accessed from Rte 6, within its eastern boundary. Town open space is connected to the site at two locations, in the north and west corners. Several trails issuing from these open spaces traverse the site.

The two planned access right-of-ways both issue from High Ridge Road, the principal street serving the residential development to the north of the site. A third potential access point exists at the end of High Ridge Road. Access from Scenic Route 6 is prohibited by Provision 4.1.1.4 of the Cape Cod Regional Policy Plan that states that "new development shall not be allowed direct access or egress onto Rte 6 in Bourne, . . . unless no alternative access or egress is available." Without an access to Scenic Route 6, the only egress for the site and the neighboring residential neighborhood would be by Nightingale Pond Road, thereby causing potential emergency access issues. There are no sidewalks in the adjoining communities, and all pedestrian access is in the form of wooded trails. Discussions have been held with both the Massachusetts Highway Department and the Cape Cod Commission in regards to possible access from Scenic Route 6. The possibilities broached included an access with traffic light, an emergency access only and a right-in, right-out only solution. No final decisions had been achieved at the time of this report.

Topographically, the site is bisected north-south by a shallow south flowing swale that drains the whole site. To the east of the swale is a small plain (Ele. 60+/-) which blends into an upwardly sloping berm upon which the water tower and scenic route are situated (Ele. 90-105+/-). The berm turns into a ridge, separating the property from Scenic Route 6, in the eastern portion of the site. The area west of the swale is composed of a small group of high points and low points, the highest of which is Elevation 70. There are no open views from the site to the

Cape Cod Canal but potentially views of the Bourne Bridge.

The site is densely covered with vegetation, primarily oaks and pines with dense underbrush. The soils are primarily gravel (fluvial pro-glacial) and well drained. The property was subject to an archaeological survey in 1988 in which it was found that there were no historically important areas on the site. The only utility that crosses or serves the site to date is a underground Waterline, leaving the Water tower and heading in a northly direction.

This property was chosen because of its central location and its size. The town educational plan includes renovating the educational facilities south of the canal at the Pebbles school and to build a new facility to serve the growing population north of the canal. This site was the only town owned property of appropriate size in this area. An added benefit of the location is the school's proximity to the neighboring residential neighborhood. This will encourage pedestrian rather than motorized travel to the school.

The building and accompanying roadways, parking and athletic fields are all designed to integrate into the Cape Cod landscape. The building was developed on the model and scale of a Cape Cod village. The layout of the building is therefore flexible enough to take into account the native vegetation and its preservation. The two wings of the building are situated face to face across the expanse of the natural swale that bisects the site. The two wings, the Early Childhood Learning Center on the north and the Elementary School to the south, are connected by two pedestrian bridges, one enclosed and the other open air. Access to the buildings for service and drop-off occur on the building facades facing away from the swale, allowing preservation of the vegetation and fauna corridors on the site. The access road ways will be laid out and designed to take into account existing topography and vegetation to reduce cuts and fills. The plan allows vegetation corridors to be preserved to allow connection with existing open spaces off site. The largest clearing will occur because of athletic fields and these will be placed on the areas with the least amount of slope to minimize clearing, cutting and filling.

LAND SECTION – all proponents must fill out this section

I. Thresholds / Permits

A. Does the project meet or exceed any review thresholds related to **land** (see 301 CMR 11.03(1))
 X Yes No; if yes, specify each threshold:

II. Impacts and Permits

A. Describe, in acres, the current and proposed character of the project site, as follows:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Footprint of buildings	0	2.89	2.89
Roadways, parking, and other paved areas	0	5.86	5.86
Other altered areas	0	18.24	18.24
Athletic fields and Playgrounds			
Undeveloped areas	122	27	95

B. Has any part of the project site been in active agricultural use in the last three years?
 Yes X No; if yes, how many acres of land in agricultural use (with agricultural soils) will be converted to nonagricultural use?

C. Is any part of the project site currently or proposed to be in active forestry use?
 Yes X No; if yes, please describe current and proposed forestry activities and indicate whether