



## TOWNSHIP OF NEPTUNE

*Memo from the desk of:  
Christopher A. Bedrosian  
Environmental/Shade Tree  
Ext. 249*

TO: Kristie Dickert, Zoning Board Administrative Officer

DATE: September 13, 2021

SUBJECT: ZB#21/09 GSZ Realty LLC preliminary & final major site plan block 808 lots 5-8

Please be advised the Environmental/Shade Tree Commission has reviewed the above mentioned application. Please find their comments:

- **§509H: The applicant is not proposing any foundation plantings and must seek a waiver of this requirement.**  
The Commission does not support a waiver of this requirement.
- **§509I: The applicant is not proposing any landscaping areas within the parking lot and must seek a waiver of this requirement.**  
The Commission does not support a waiver of this requirement.
- **§509I.3: The applicant is not proposing any landscaping islands/trees within the parking lot and must seek a waiver of this requirement.**  
The Commission does not support a waiver of this requirement.
- **§509I.3(b): The applicant is not proposing any landscaping islands within rows of more than eight (8) parking spaces and must seek a waiver of this requirement.**  
The Commission does not support a waiver of this requirement.
- **Impervious coverage: The applicant is proposing 80% impervious coverage.**  
Although the proposed 80% meets ordinance requirements, the Commission is opposed to this amount of impervious coverage at this site.
- **Proposed plantings:**
  - **The applicant lists 16 (sixteen) *Miscanthus sinensis* ("Chinese silver grass") as part of the landscaping proposal.**  
*Miscanthus sinensis* is listed on the New Jersey Invasive Species Strike Team (NJISST) "2021 Do Not Plant List", and should not be introduced to this locale.  
  
The Commission suggests the following plants as alternatives to *Miscanthus*:  
*Andropogon gerardii* ("big bluestem")  
*Schizachryium scoparium* ("little bluestem")  
*Sorghastrum nutans* ("indiangrass")
  - **The applicant lists 3 (three) *Ginkgo biloba* ("maidenhair") trees as part of the landscaping proposal.**

The Commission asks for confirmation that all Ginkgo trees planted will be male. The female of this species produces seeds containing butyric (aka butanoic) acid, which emits a strong, rancid odor when fallen.

**New Jersey Invasive Species Strike Team  
2021 DO NOT PLANT LIST  
PLANTS ON THIS LIST ARE COMMONLY AVAILABLE FOR PURCHASE**

Scientific Name	Common Name	Problem Type
<b>Herbaceous Plants</b>		
<i>Acorus calamus</i>	Calamus	Widespread
<i>Artemisia stelleriana</i>	oldwoman	Emerging
<i>Arum italicum</i>	Italian arum	Potential
<i>Belamcanda chinensis</i>	blackberry lily	Potential
<i>Berberis julianae</i>	wintergreen barberry	Potential
<i>Butomus umbellatus</i>	flowering rush	Potential
<i>Cenchrus purpurescens</i>	black fountain grass	Potential
<i>Cenchrus setaceus</i>	black fountain grass	Potential
<i>Corydalis solida</i>	spring fumewort	Potential
<i>Cyrtomium falcatum</i>	Japanese net-veined holly fern	Potential
<i>Fallopia baldschuanicum</i>	Bukhara fleecflower	Emerging
<i>Ficaria verna</i>	lesser celandine	Widespread
<i>Hosta ventricosa</i>	blue plantain lily	Emerging
<i>Houttuynia cordata</i>	chameleon-plant	Potential
<i>Hyacinthoides hispanica</i>	Hispanic hyacinthoides	Potential
<i>Iris pseudacorus</i>	yellow iris	Widespread
<i>Lamiastrum galeobdolon</i>	yellow archangel	Potential
<i>Leucocjum aestivum</i>	snowbell	Potential
<i>Lonicera caprifolium</i>	Italian woodbine	Emerging
<i>Lythrum salicaria</i>	purple loosestrife	Widespread
<i>Miscanthus sinensis</i>	Chinese silvergrass	Emerging
<i>Perilla frutescens</i>	beefsteakplant	Emerging
<i>Persicaria orientalis</i>	kiss me over the garden gate	Emerging
<i>Pistia stratiotes</i>	water lettuce	Emerging
<i>Ranunculus repens</i>	creeping buttercup	Potential
<i>Salvia glutinosa</i>	Jupiter's distaff	Potential
<i>Scilla siberica</i>	squill	Potential
<i>Silene flos-cuculi</i>	ragged robin	Emerging
<i>Trapa natans</i>	European water chestnut	Widespread
<i>Tripidium ravennae</i>	hardy pampas grass	Potential
<b>Trees</b>		
<i>Acer ginnala</i>	Amur maple	Emerging
<i>Acer palmatum</i>	Japanese maple	Emerging
<i>Acer platanoides</i>	Norway maple	Widespread
<i>Acer pseudoplatanus</i>	sycamore maple	Emerging
<i>Albizia julibrissin</i>	mimosa	Emerging
<i>Aralia elata</i>	Japanese angelica tree	Widespread
<i>Cornus kousa</i>	Kousa dogwood	Emerging
<i>Koelreuteria elegans</i>	golden raintree	Potential
<i>Magnolia kobus</i>	Kobus magnolia	Potential
<i>Paulownia tomentosa</i>	princesstree	Widespread
<i>Phellodendron amurense</i>	Amur corktree	Emerging
<i>Populus alba</i>	white poplar	Emerging
<i>Populus x canadensis</i>	gray poplar	Emerging
<i>Prunus avium</i>	Sweet Cherry	Widespread
<i>Prunus itosakura</i>	weeping Higan cherry	Emerging
<i>Pyrus betulifolia</i>	birchleaf pear	Potential
<i>Pyrus calleryana</i>	Callery pear (Bradford pear)	Widespread
<i>Robinia pseudoacacia</i>	black locust	Widespread
<i>Ulmus minor</i>	English elm	Emerging
<i>Ulmus parvifolia</i>	Chinese elm	Emerging

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<b>Shrubs</b>		
<i>Berberis thunbergii</i>	Japanese barberry	Widespread
<i>Buddleja davidii</i>	butterflybush	Emerging
<i>Citrus trifoliata</i>	hardy orange	Emerging
<i>Cytisus scoparius</i>	Scotch broom	Emerging
<i>Deutzia scabra</i>	fuzzy pride-of-Rochester	Emerging
<i>Elaeagnus umbellata</i>	autumn olive	Widespread
<i>Euonymus alatus</i>	winged burning bush	Widespread
<i>Euonymus europaeus</i>	European spindletree	Emerging
<i>Hippophae rhamnoides</i>	seaberry	Potential
<i>Hydrangea paniculata</i>	Panicked Hydrangea	Potential
<i>Kolkwitzia amabilis</i>	beautybush	Potential
<i>Ligustrum amurense</i>	amur privet	Potential
<i>Ligustrum obtusifolium</i>	border privet	Widespread
<i>Ligustrum ovalifolium</i>	California privet	Emerging
<i>Ligustrum vulgare</i>	European privet	Widespread
<i>Lonicera fragrantissima</i>	sweet breath of spring	Emerging
<i>Mahonia bealei</i>	Beale's barberry	Emerging
<i>Osmanthus heterophyllus</i>	holly osmanthus	Potential
<i>Photinia villosa</i>	Oriental photinia	Widespread
<i>Rhodotypos scandens</i>	jetbead	Emerging
<i>Ribes rubrum</i>	garden red current	Emerging
<i>Robinia hispida</i>	bristly locust	Emerging
<i>Rosa luciae</i>	memorial rose	Potential
<i>Rosa rugosa</i>	seaside rose	Emerging
<i>Rubus parvifolius</i>	Western thimbleberry	Emerging
<i>Rubus phoenicolasius</i>	wine raspberry	Widespread
<i>Spiraea japonica</i>	Japanese spiraea	Emerging
<i>Styrax japonicus</i>	Japanese snowbell	Emerging
<i>Symplocos paniculata</i>	sapphire berry	Emerging
<i>Viburnum dilatatum</i>	linden viburnum	Widespread
<i>Viburnum lantana</i>	wayfaringtree	Emerging
<i>Viburnum opulus</i>	Guelder-rose	Emerging
<i>Viburnum plicatum</i>	Japanese snowball	Emerging
<i>Viburnum setigerum</i>	tea viburnum	Emerging
<i>Viburnum sieboldii</i>	Siebold's arrowwood	Emerging
<b>Vines</b>		
<i>Actinidia arguta</i>	hardy kiwi	Emerging
<i>Akebia quinata</i>	chocolate vine	Emerging
<i>Celastrus orbiculatus</i>	Oriental bittersweet	Widespread
<i>Clematis flammula</i>	fragrant clematis	Emerging
<i>Clematis terniflora</i>	Japanese clematis	Widespread
<i>Euonymus fortunei</i>	winter creeper	Emerging
<i>Hedera helix</i>	English ivy	Emerging
<i>Lonicera japonica</i>	Japanese honeysuckle	Widespread
<i>Parthenocissus tricuspidata</i>	Boston ivy	Emerging
<i>Wisteria floribunda</i>	Japanese wisteria	Emerging
<i>Wisteria sinensis</i>	Chinese wisteria	Emerging

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<b>Herbaceous Plants</b>		
Achyranthes japonica	Japanese chaff flower	Potential
Aldrovanda vesiculosa	water wheel plant	Potential
Alliaria petiolata	garlic mustard	Widespread
Ambrosia psilostachya	Cuman ragweed	Emerging
Anthriscus sylvestris	wild chervil	Widespread
Artemisia annua	annual wormwood	Emerging
Artemisia vulgaris	mugwort	Widespread
Arthraxon hispidus	small carpetgrass	Widespread
Cabomba caroliniana	Carolina fanwort	Emerging
Callitriche stagnalis	European waterstarwort	Emerging
Cardamine impatiens	narrowleaf bittercress	Widespread
Carex flacca	blue-green sedge	Potential
Carex kobomugi	Japanese sedge	Emerging
Carex macrocephala	largehead sedge	Emerging
Centaurea stoebe ssp. micrantha	spotted knapweed	Widespread
Cirsium arvense	Canada thistle	Widespread
Conium maculatum	poison-hemlock	Widespread
Corydalis incisa	purple kaman	Emerging
Cuscuta japonica	purple stemmed dodder	Potential
Cyperus difformis	variable flatsedge	Potential
Didymosphenia geminata	rock snot	Emerging
Dipsacus fullonum	common teasel	Widespread
Dipsacus laciniatus	cutleaf teasel	Emerging
Egeria densa	Brazilian waterweed	Emerging
Eichhornia crassipes	common water hyacinth	Emerging
Elsholtzia ciliata	Vietnamese Balm	Watch
Eragrostis curvula	weeping lovegrass	Emerging
Eriochloa villosa	Hairy Cup-grass	Potential
Falcaria vulgaris	Sickleweed	Potential
Fatoua villosa	hairy crabweed	Potential
Heracleum mantegazzianum	giant hogweed	Emerging
Hesperis matronalis	Dame's Rocket	Potential
Hydrilla verticillata	hydrilla	Emerging
Hydrocharis morsus-ranae	European frog-bit	Emerging
Impatiens glandulifera	Himalayan balsam	Potential
Kalopanax septemlobus	castor aralia	Emerging
Lespedeza cuneata	sericea lespedeza	Widespread
Ludwigia peploides	creeping waterprimrose	Emerging
Lysimachia nummularia	creeping Jenney	Widespread
Marsilea quadrifolia	European waterclover	Emerging
Microstegium vimineum	Japanese stiltgrass	Widespread
Murdannia keisak	marsh dayflower	Potential
Myosoton aquaticum	giant chickweed	Emerging

Scientific Name	Common Name	Problem Type
<b>Herbaceous Plants</b>		
Myriophyllum aquaticum	parrotfeather	Emerging
Myriophyllum spicatum	Eurasian water-milfoil	Widespread
Najas minor	brittleleaf naiad	Emerging
Nasturtium officinale	watercress	Widespread
Nitellopsus obtusa	starry stonewort	Emerging
Nymphoides peltata	yellow floating heart	Emerging
Oenanthe javanica	Java dropwort	Emerging
Oplismenus hirtellus	wavyleaf basketgrass	Emerging
Phalaris arundinacea	reed canarygrass	Widespread
Phalaris canariensis	canarygrass	Emerging
Phragmites australis	common reed	Widespread
Potamogeton crispus	curly-leaved pondweed	Widespread
Reynoutria japonica	Japanese knotweed	Widespread
Reynoutria sachalinensis	giant knotweed	Widespread
Reynoutria x bohemicum	Bohemian knotweed	Widespread
Stratiotes aloides	water soldier	Emerging
<b>Trees</b>		
Ailanthus altissima	tree-of-heaven	Widespread
Alnus glutinosa	European black alder	Emerging
Broussonetia papyrifera	paper mulberry	Emerging
Malus toringo	Japanese crabapple	Emerging
Morus australis	Chinese mulberry	Potential
<b>Shrubs</b>		
Amorpha fruticosa	indigobush	Emerging
Berberis vulgaris	common barberry	Emerging
Elaeagnus angustifolia	Russian olive	Emerging
Elaeagnus pungens	thorny elaeagnus	Potential
Eleutherococcus sieboldianus	five-leaf aralia	Emerging
Frangula alnus	glossy buckthorn	Emerging
Lonicera maackii	Amur honeysuckle	Widespread
Lonicera morrowii	Morrow's honeysuckle	Widespread
Lonicera standishii	Standish's Honeysuckle	Emerging
Lonicera tatarica	Tatarian honeysuckle	Widespread
Rhamnus cathartica	European buckthorn	Emerging
Rhamnus davurica	Dahurian buckthorn	Emerging
Rhamnus utilis	Chinese buckthorn	Potential
Rosa canina	dog rose	Emerging
Rosa multiflora	multiflora rose	Widespread
Rubus armeniacus	Himalaya blackberry	Emerging
Rubus laciniatus	cutleaf blackberry	Emerging
Salix atrocinerea	large gray willow	Emerging
Salix cinerea	gray willow	Emerging
Salix matsudana	Chinese willow	Potential
<b>Vines</b>		
Ampelopsis brevipedunculata	porcelain-berry	Emerging
Dioscorea polysacha	Chinese yam	Emerging
Humulus japonicus	Japanese hop	Emerging
Persicaria perfoliata	mile-a-minute vine	Widespread
Pueraria montana var. lobata	kudzu	Emerging
Vincetoxicum louiseae	black swallowwort	Emerging
Vincetoxicum rossicum	pale swallowwort	Emerging