

BRONOWICE - Project of a model housing estate above the stream

Pond related to the history of the place



Recreation area with greenery at the background

River park in the housing estate of single-family buildings

Country /City Poland, Cracow

University / School Cracow University of Technology

Academic year Fifth year

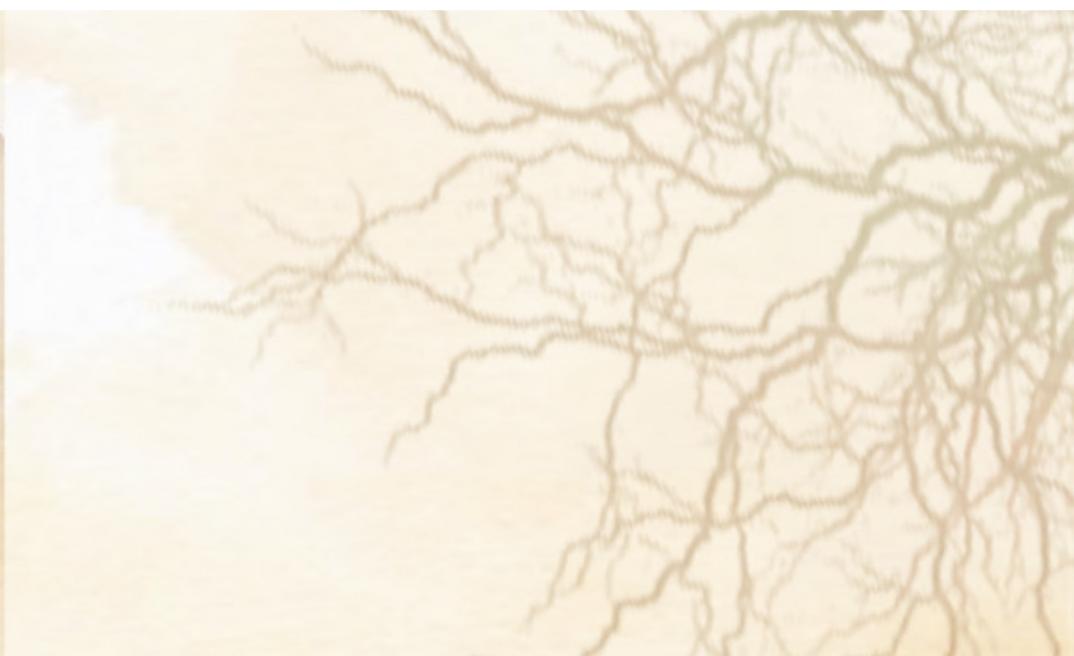
Title of the project BRONOWICE - Project of a model housing estate above the stream

Authors Klaudia Małyjurek

TECHNICAL DOSSIER

Title of the project	BRONOWICE - Project of a model housing estate above the stream
Authors	Klaudia Małýjurek
Title of the course	Project of a model housing estate (graduation project)
Academic year	Fifth year
Teaching Staff	Urszula Forczek-Brataniec
Department / Section / Program of belonging	Department of Architecture, Landscape Architecture
section, Landscape architecture in the special and historical place with guardian spirit	
University / School	Cracow University of Technology

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Written statement, short description of the project in English, no more than 250 words

The subject of the study is the development project of the area located in Cracow for model housing estate of single-family buildings. The purpose of the project is to define the urban standards for a housing estate of a single-family buildings, and also to perform functional landscaping of the area including the local spatial development plan where the area is intended for residential buildings. The new project pays attention to the history, topography, and nature, also with respect to guardian spirit of the place.

The housing estate was designed taking into account individual models of housing estate. According to these standards inhabitants must have access to the basic social services, infrastructure and public greenery. The project deals with the subject of neighbourhood units, city-garden and life in city, but always in agreement with nature. The main project idea is the adaptation of existing greenery including groups of adult trees and groups of self-seeding of trees. The housing estate has been integrated into the greenery, not the greenery into the housing estate. From the west side, nature is entering the estate area by creating an ecological corridor which is connected with green area in further part of the estate and coming out outside the analysed area. The design of estate is determined by the service centre, and also by the estate river park. There is a pond there which is related to the history of Bronowice (one of old "near Cracow" village).

For further information

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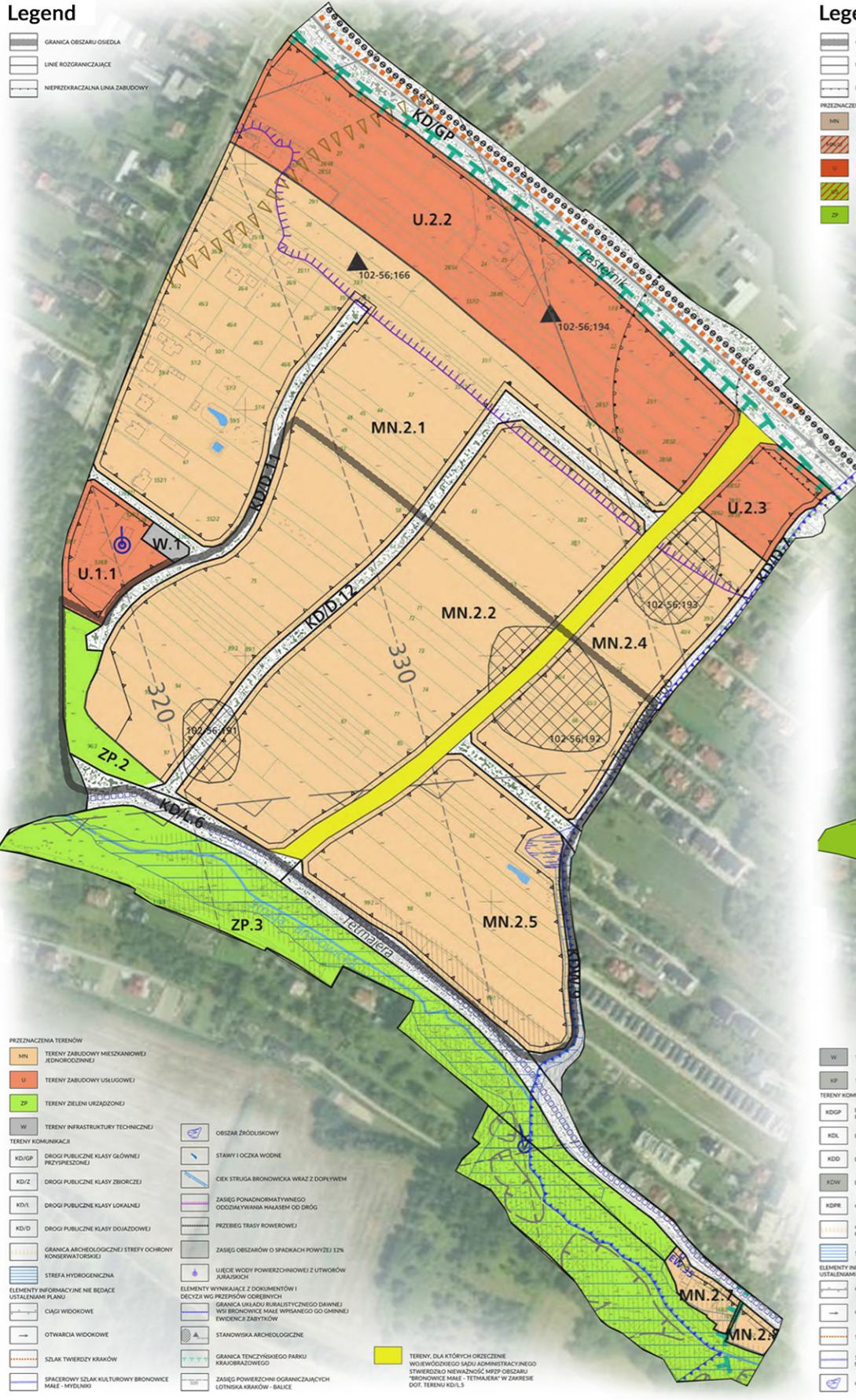
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SCHOOL PRIZE

From general to specific - Local spatial development plan

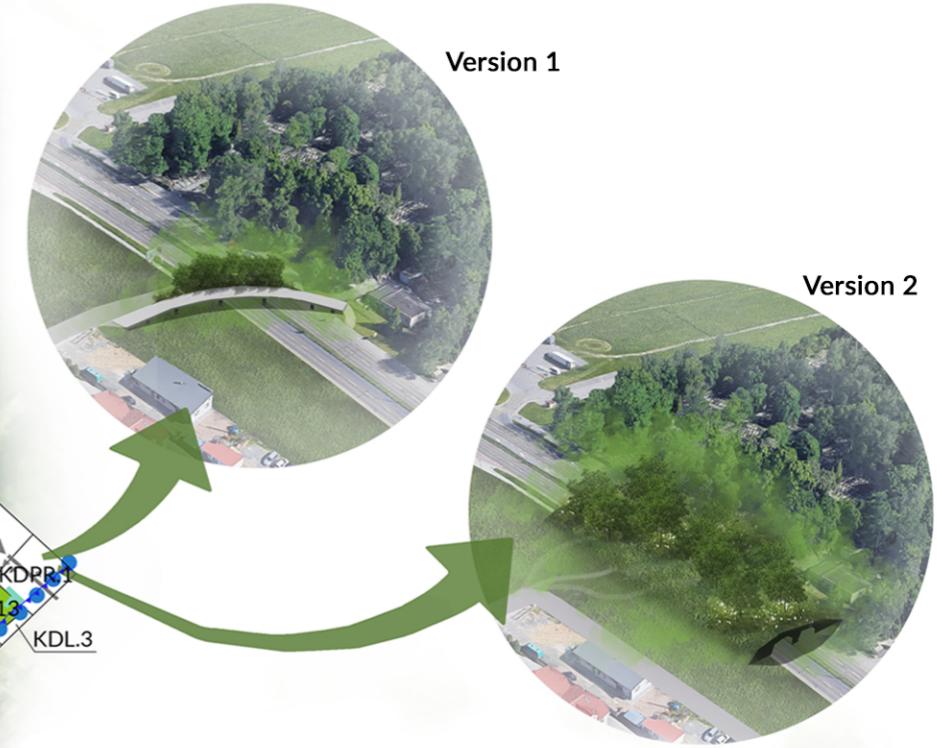
Local spatial development plan - NOW



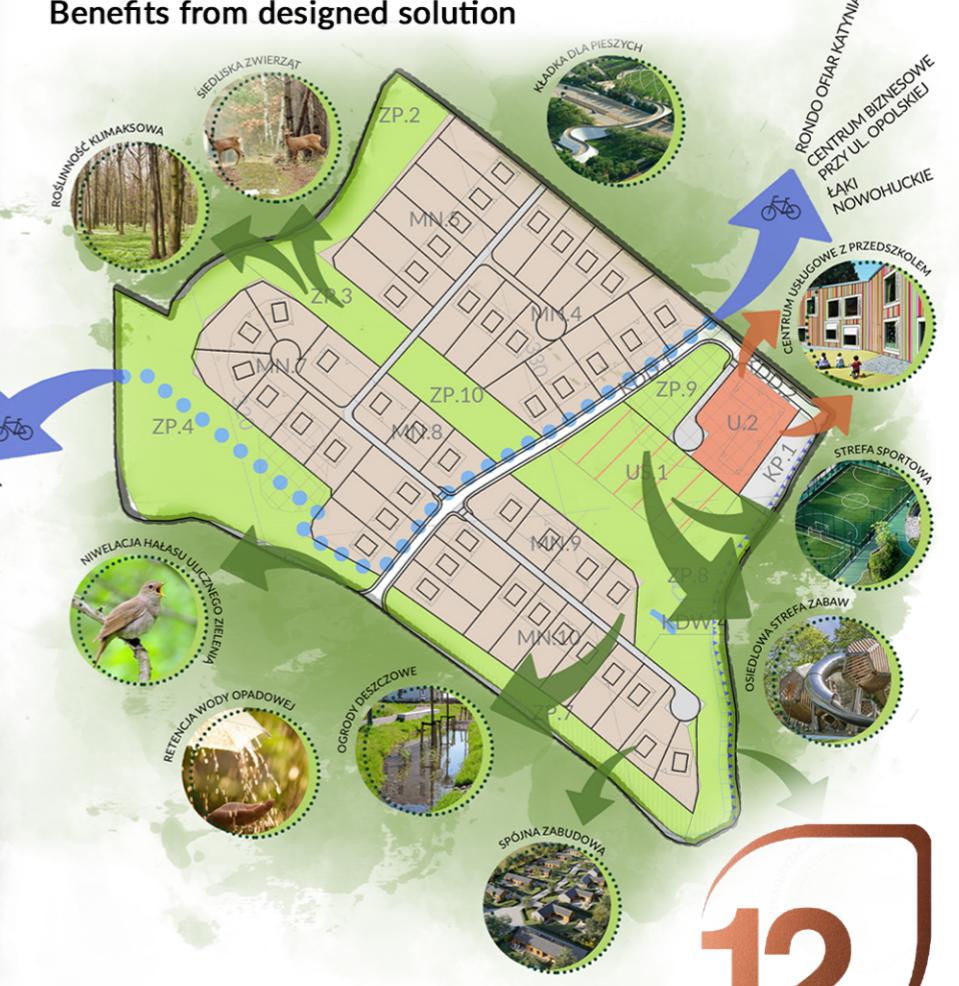
Local spatial development plan - DESIGNED



Variants of the footbridge above the Pasternik street



Benefits from designed solution



Green connection - Concept of the system of green and blue infrastructure

Concept of the system of green and blue infrastructure



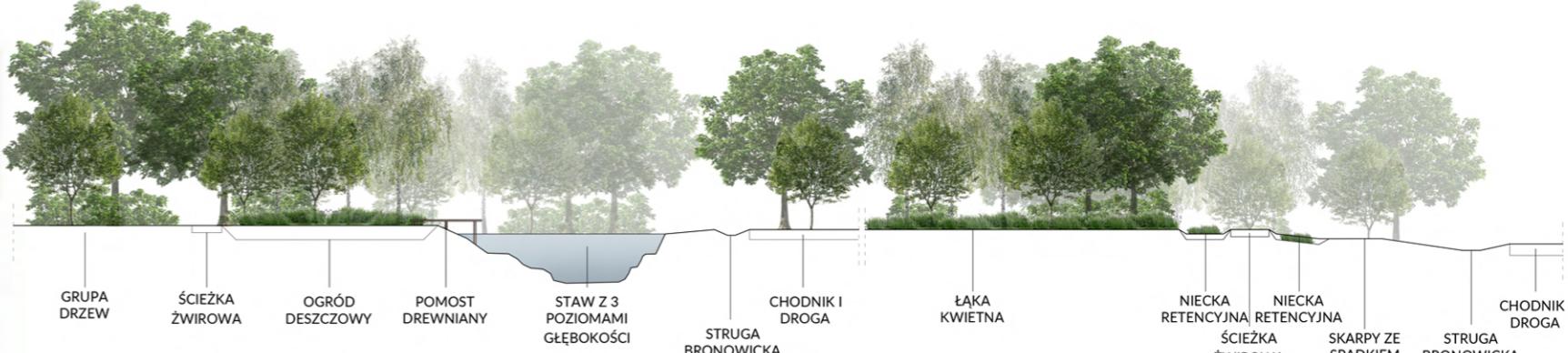
There was a pond a long time ago - Area around the new pond in the river park

Detail of the area around the pond

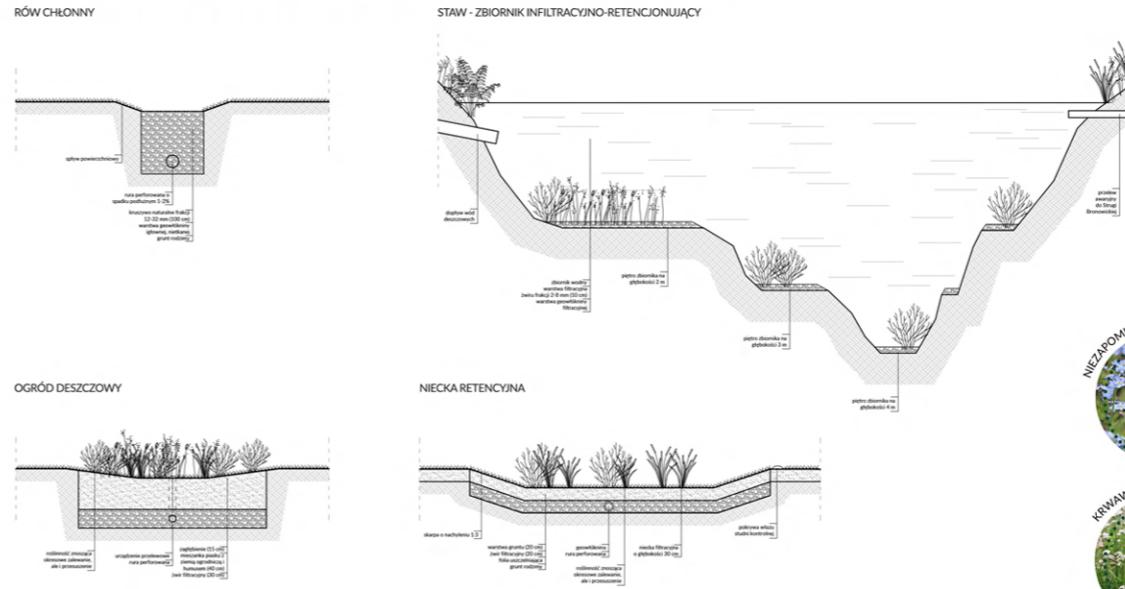


A-A section

PRZEKÓD A-A: 264.8 - 262.6 m



Used solutions about the retention of the rainwater



View from platform to a pond



B-B section

Designed plants

NR	NAZWA LACIŃSKA	NAZWA POLSKA	UWAGI				
ROŚLINNOŚĆ PROJEKTOWANA							
- OGROD DESZCZOWY							
P1	ATHYRIUM FILIX-FEMINA	WIEŁICA SAMICZA	ROŚLINY W OGRODZIE DESZCZOWYM NALEŻY SADZIĆ W UKŁADZIE LOSOWYM POZOSTAWIAJĄC NIEWIELKE WOLNE PRZESTRZENIE				
	CAREX FLACCA	TURZYCA SINA					
	CAREX NIGRA	TURZYCA POSPOLITA					
	ELEOCHARIS PALUSTRIS	PONIKŁO BŁOTNE					
	LYSIMACHIA NUMMULARIA	TOJEŚĆ ROZESŁANA					
	MYOSOTIS SCORPIOIDES	NIEZAPOMINKA BŁOTNA					
- NIECKA RETENCYJNA							
P2	ACHILLEA Millefolium	KRWawnik POSPOLITY	ROŚLINY W NIECCE RETENCYJNEJ NALEŻY SADZIĆ W UKŁADZIE LOSOWYM POZOSTAWIAJĄC NIEWIELKI WOLNE PRZESTRZENIE				
	BRIZA MEDIA	DRŻĄCZKA ŚREDNIA					
	CAREX FLACCA	TURZYCA SINA					
	IRIS SIBIRICA	KOSACIEC SYBERJSKI					
	JUNCUS EFFUSUS	SIT ROZPIERZCHŁY					
	POLYGONUM BISTORTA	RDEST WEJŻOWNIK					
	STIPA CAPILLATA	OSTNICA WŁOSOWATA					
- ZIELĘ NADRZECZNĄ							
P3	ALNUS INCANA AUREA'	OLSZA SZARA ODM. ZŁOTA	ROŚLINY NALEŻY SADZIĆ W GRUPACH PRZY STAWACH CIEK WODNYM. ROŚLINNOŚĆ ZIELNA TYPOWA DLA ZBIOROWISKA POJAWI SIĘ Z BIEGIEM CZASU				
	ALNUS GLUTINOSA 'IMPERIALIS'	OLSZA CZARNA ODM. CESARSKA					
	SALIX PURPUREA 'NANA'	WIERZBA PURPUROWA					
	FILIPENDULA ULMARIA	WIAZÓWKA BŁOTNA					
- TERENY ŁĄK							
P4	TERENY OZNACZONE JAKO "TERENY ŁĄK" PROJEKTUJE SIĘ JAKO ŁĄKI KWIETNIE. OBSZARY TE NALEŻY KOSIĆ 1-2 RAZY W ROKU, ABY UNIKAĆ PĘDZI DREWNAŁY						
- POWIERZCHNIE TRAWNIKOWE							
TRAWNIK PARKOWY - MIESZANKA TRAW WZBOGACONA O ŁĄKOWE ROŚLINY KWIATCZACE - 750 M ²							
- KOSTRZEWIA CZERWONA KĘPOWA 10%							
- KOSTRZEWIA CZERWONA ROZŁOGOWA 35%							
- KOSTRZEWIA SZCZECINIASTA 10%							
- KOSTRZEWIA TRZCIŃOWA 20%							
- ŻYCIA TRWAŁA 35%							
ROŚLINNOŚĆ ISTNIEJĄCA							
G16	BETULA PENDULA, CRATAEGUS MONOGYNA, JUGLANS REGIA, PRUNUS PADUS, RUBUS CAELEM	PODSZYT: Nawłoć PÓŁNA, LICZNE SAMOSIEWY DRZEW					
G18	CRATAEGUS MONOGYNA, JUGLANS REGIA, POPULUS TREMULA, PRUNUS PADUS, SORBUS AUCUPARIA	PODSZYT: LICZNE SAMOSIEWY DRZEW					
G19	BETULA PENDULA, CRATAEGUS MONOGYNA, JUGLANS REGIA, POPULUS TREMULA, PRUNUS PADUS, QUERCUS RUBRA, SORBUS AUCUPARIA	PODSZYT: LICZNE SAMOSIEWY DRZEW					
G20	CRATAEGUS MONOGYNA, PRUNUS PADUS, SALIX	PODSZYT: LICZNE SAMOSIEWY DRZEW					
G21	BETULA PENDULA, JUGLANS REGIA, QUA	PODSZYT: LICZNE SAMOSIEWY DRZEW					