

## IV-55

### IDEAS & PATTERN ON SUSTAINABLE PROCESS ARCHITECTURAL DESIGN

---- REDEEMING & DEVELOPING A LITTLE TOWN WHOSE INHERENT  
SUSTAINABILITY IS FACING THREATENINGS

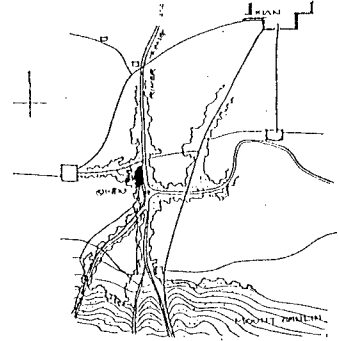
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#### 1. INTRODUCTION

The shaanxi ancient market town of Qindu was set up about 2000 years ago. Its natural environment was, in history, clad with verdant forests, with river of a bundant water resources,an ecologically sound environment.It enjoys an ancient historical connotation, its culture rich with local flavor.

However, with the recent rapid mutation of China's economical reform, tempo of its urbanization process accelerated--- its city-walls almost completely demolished, its antique streetscape changed rapidly. Like many China's similar small country towns, Qindu is facing threatenings of contextual disjunction and of ecological destruction. Its superficial "new development" is in reality a destruction of its traditional sustainability.

This design & its ideas make the physical sustainability of this town with its social economic & cultural sustainability form a whole system, which could carry out favorable mutual influencing & mutual responding between its man-made environment and its inhabitants, & capable of producing & enhancing community sustainability & corresponding concepts.



#### 2.MAIN IDEAS

(1).Different concepts of human relationship with nature resulting in different man-made environments.

(2).Throughout an age-long history of mankind living harmoniously with nature, man had accumulated rich heritage, consisting ample wisdom favoring sustainable development.

(3).Education being the key link for keeping & enhancing sustainability. Education could be carried out through people teaching people, but the most important would be influences of the environment itself that teaches people directly; Mutual influencing between man with the environment he created is a necessary process for promoting the sense of sustainability.

(4). Formation of community sustainability depending on a prevailing way of life among community members that conforming with sustainability,& on a recognition of certain local culture.

(5).The paramount criterion of correct orientation of technology is meeting requirement of sustainability.

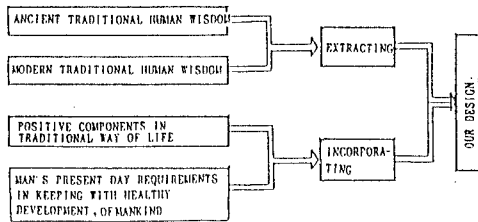
#### 3. PRINCIPLES FOR THE DESIGN OF UTILIZATION OF ENERGY & OTHER RESOURCES

Utilization of energy should be comprehensively & locally; Energy sources far away from given locality can only be used in special occasion.

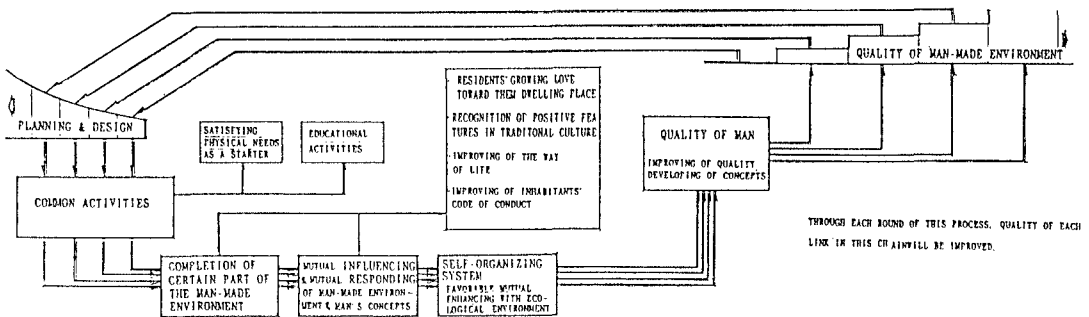
Use more building materials that can go into recycling for those materials impossible to go into recycling; Use as less as possible; Repeated reuse; Strive for their high effectiveness.

Full recycling of existing buildings, streets & squares through remodeling, redesigning, adding new functions & new meanings.

#### 4. INTENSION OF OUR DESIGN IDEAS

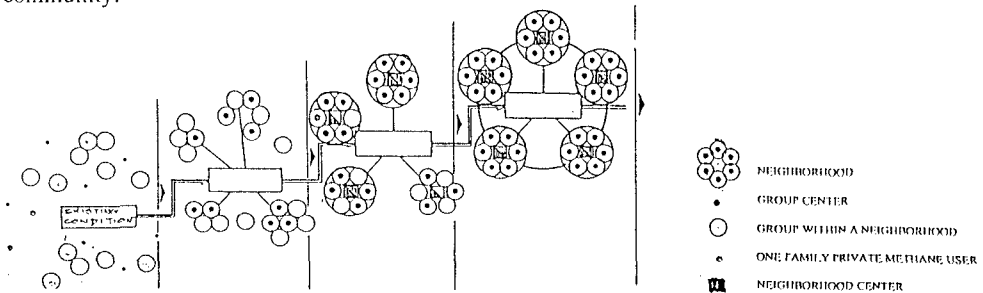


#### 5. PATTERN OF PROCESS DESIGN



#### 6. STARTER OF DEVELOPING PROCESS

The building up of ecological neighborhood center & neighborhood group center being a good starter for the inhabitants to carry on their construction activities towards developing their sustainable community.



#### 7. CONCLUSION

This comprehensive system had developed & perfected those favorable ecological system in history.

Had continued to develop the inherent features & vitality of the ancient town in its economic & cultural development so that the local flavor of Qindu grows more & more attractive and beloved by the people.

The system itself had also involuntarily been imprinted deeply with such cultural brand in the form of customs & concepts.