

# BIG WALNUT TRAIL CONCEPT PLAN

City of Gahanna, Ohio  
July, 2008



CITY OF GAHANNA  
DEPARTMENT OF PARKS & RECREATION



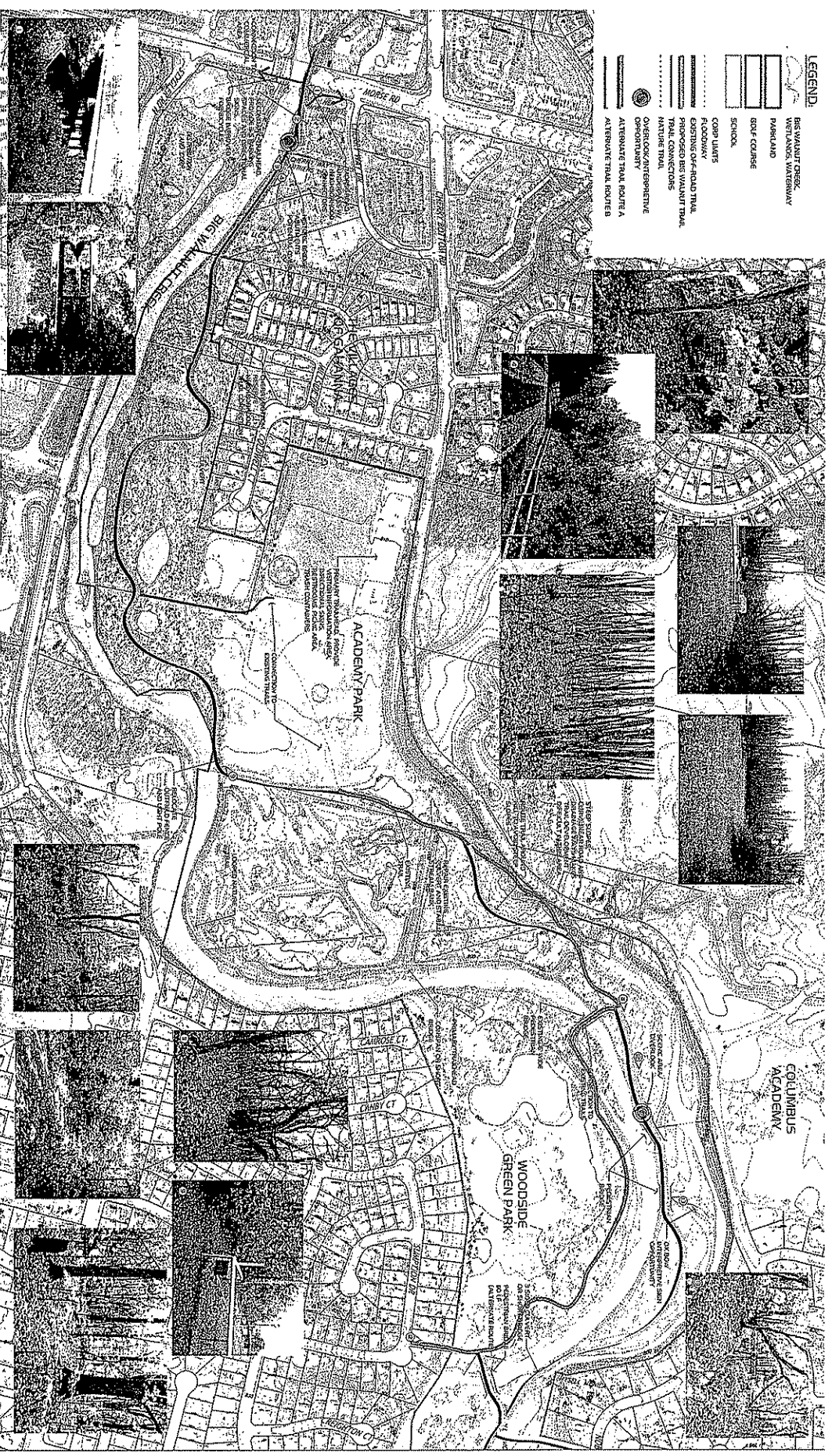
PREPARED BY:

**Floyd  
Browne**  
Group

IN ASSOCIATION WITH:  
79 American Ave.  
Lynchburg, VA 24502



- LEGEND**
- BIG WALNUT CREEK
  - WETLANDS, WATERWAY
  - PARKLAND
  - BOAT COURSE
  - SCHOOL
  - COMP LOTS
  - PODDING
  - PODDING AND TRAIL
  - PROPOSED BIG WALNUT TRAIL
  - TRAIL CONNECTIONS
  - NATURAL TRAIL
  - OVERLOOK/INTERPRETIVE OPPORTUNITY
  - ALTERNATE TRAIL ROUTE A
  - ALTERNATE TRAIL ROUTE B



# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

PREPARED FOR  
CITY OF GAHANNA  
STATIONERY OF JAMES A. KOSCHINSKY

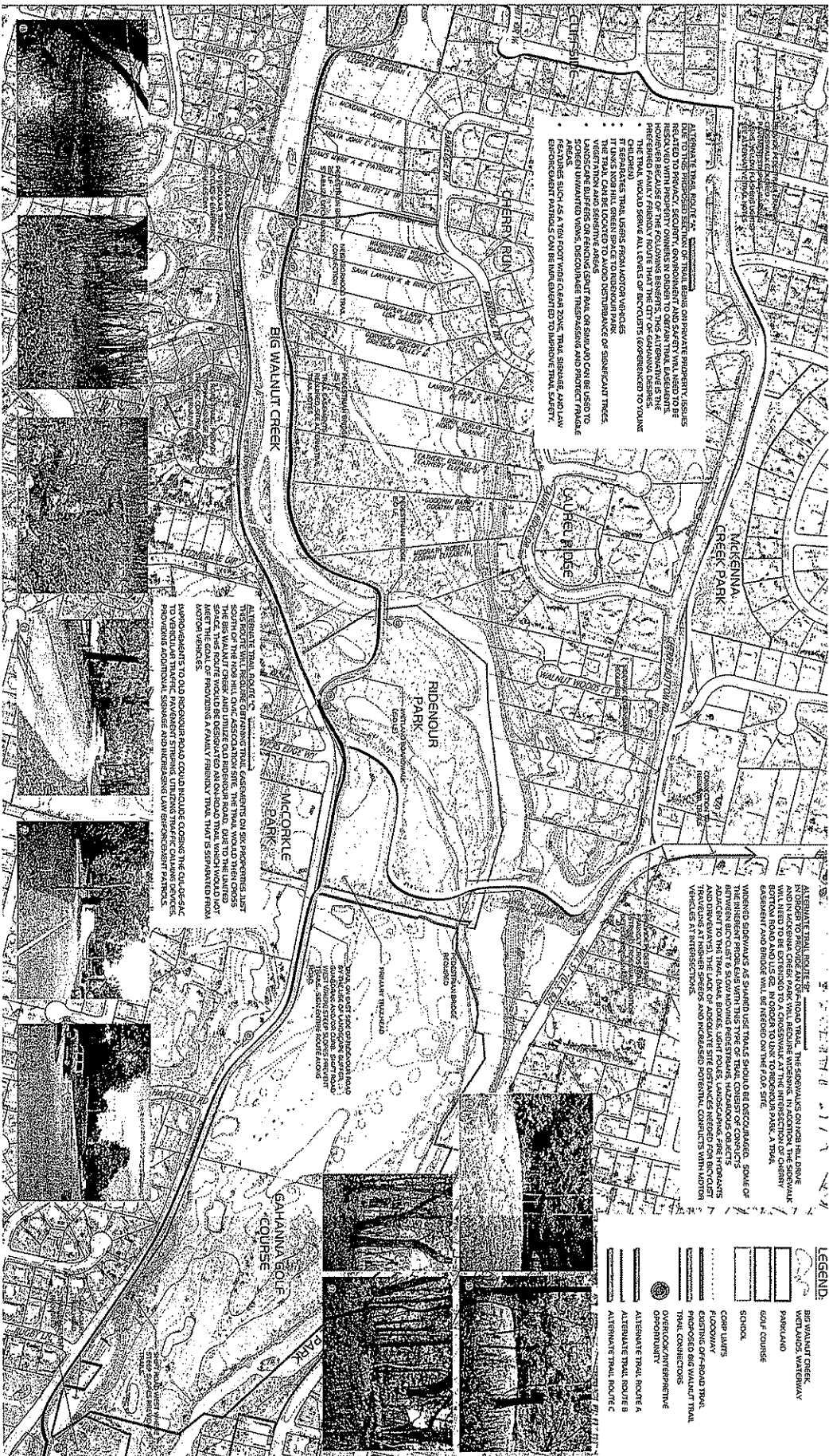
0 100' 200' 400' 600' NORTH

GRAPHIC SCALE: 1"=200'-0"

DATE: JULY 2008

JOB NO. 07-0085-000

**FLOYD**  
ENGINEERS  
AND  
ARCHITECTS  
INC.



ALTERNATE TRAIL ROUTE A: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE B: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE C: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE A: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE B: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE C: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE A: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE B: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

ALTERNATE TRAIL ROUTE C: This route follows the existing off-road trail, the sidewalks on Hobbs Hill Drive and in McKenna Creek Park will become widening. In addition, the sidewalk will need to be widened to connect to the main road on Cherry Hill Drive. A trail easement and bridge will be needed on the flood site.

# BIG WALNUT TRAIL

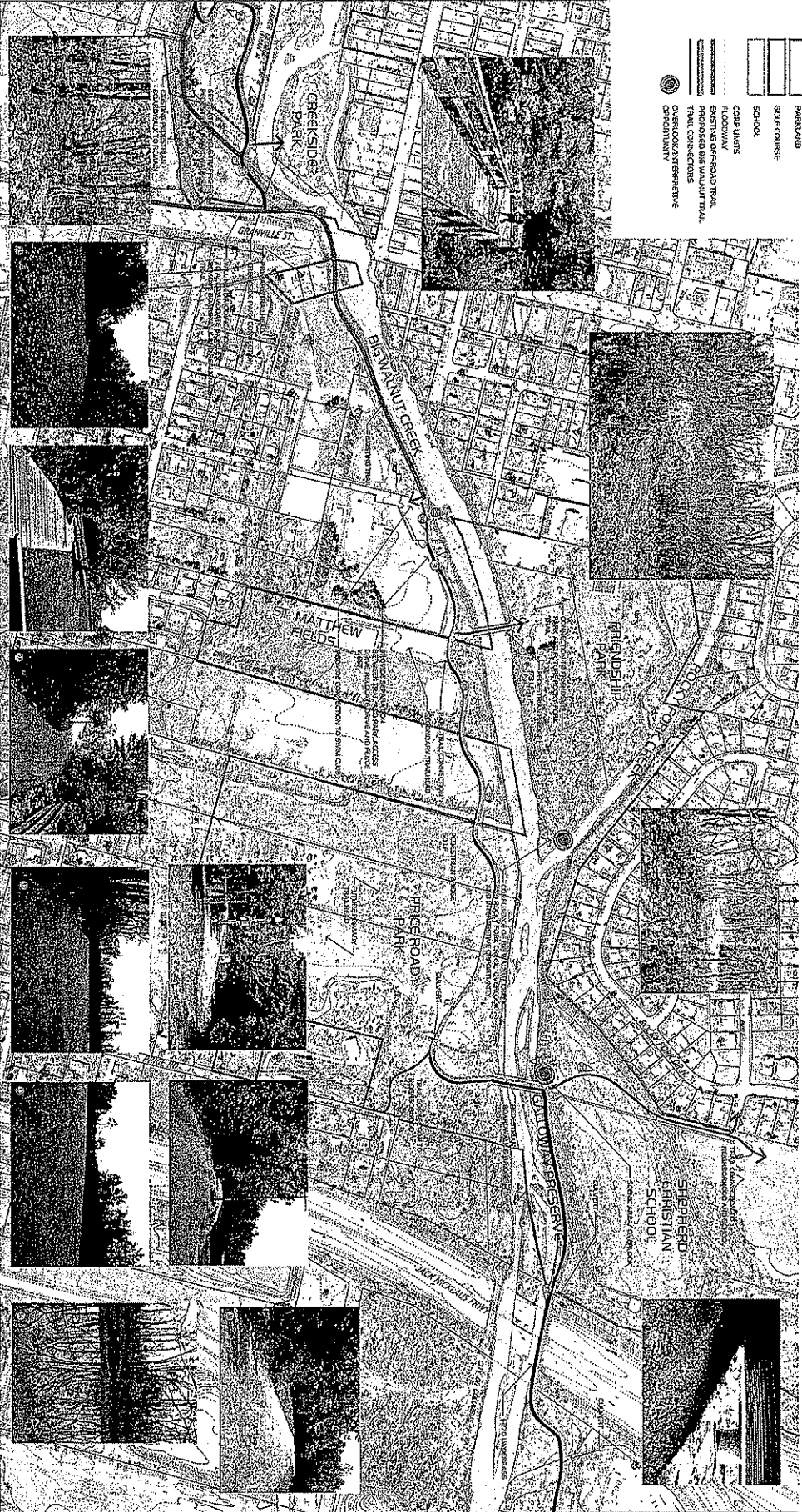
CONCEPT PLAN

2

CITY OF GAHANNA  
DEPARTMENT OF PLANNING & DEVELOPMENT  
PREPARED FOR  
CITY OF GAHANNA  
DATE: JULY 2008  
JOB NO. 07-40283-000

0' 200' 400' 600' 800' NORTH  
GRAPHIC SCALE: 1"=200'-0"  
DATE: JULY 2008  
JOB NO. 07-40283-000  
City of Gahanna  
Planning & Development  
7400 12345th St.  
Gahanna, OH 43030  
760 123 4567  
www.cityofgahanna.org

- LEGEND**
- BIG WALNUT CREEK
  - WETLANDS WATERWAY
  - PARK AND
  - GOLF COURSE
  - SCHOOL
  - COOP UNITS
  - FLOODWAY
  - EXISTING OFF-ROAD TRAIL
  - PROPOSED BIG WALNUT TRAIL
  - TRAIL CONNECTIONS
  - OVERLOOK/VIEW SHEDDIVE
  - OPEN SPACE



MATCHLINE-SEE SHEET 2

MATCHLINE-SEE SHEET 4

# BIG WALNUT TRAIL

CONCEPT PLAN

3

CITY OF GAHANNA, OHIO

PREPARED FOR:  
CITY OF GAHANNA  
DESIGNED BY: TERRY A. KENNEDY

0' 100' 200' 400' 800' NORTH

GRAPHIC SCALE: 1"=200'-0"

DATE: JULY 2008

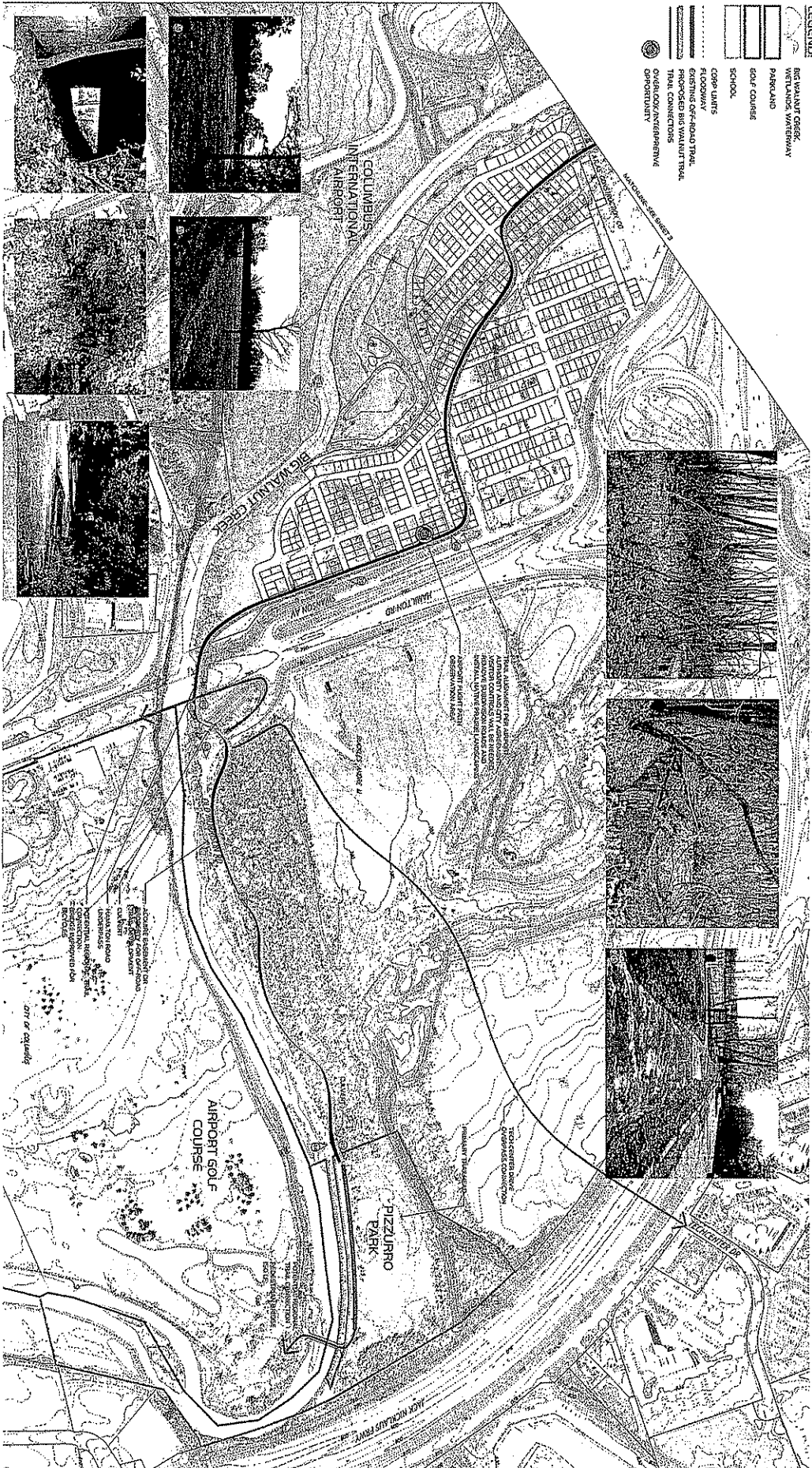
JOB NO. 07-0089-040

**Floyd**  
ENGINEERS  
INC.

1000 E. MAIN ST.  
SUITE 200  
GAHANNA, OHIO 43030

TEL: 614.235.1400  
FAX: 614.235.1401  
WWW.FLOYDENGR.COM

- LEGEND:**
- BIG WALNUT CREEK, WETLANDS, WATERWAY
  - PARKLAND
  - GOLF COURSE
  - SCHOOL
  - GROUP UNITS
  - EXISTING OFF-ROAD TRAIL, PROPOSED BIG WALNUT TRAIL, TRAIL CONNECTORS
  - OVERLOOK/INTERPRETIVE OPPORTUNITY



# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

4

PREPARED FOR  
CITY OF GAHANNA  
DEPARTMENT OF PLANNING & DEVELOPMENT

0 200' 400' 600' NORTH

DATE: JULY 2008  
JOB NO. 07-6035-000

**BRUNNEN**  
ENGINEERS  
INC.

**GENERAL NOTES**

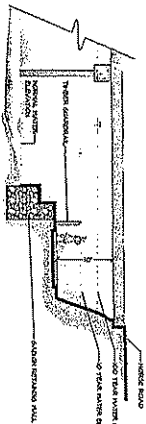
1) DRAINAGE CALCULATIONS FOR BRIDGE STRUCTURES HAVE NOT BEEN PERFORMED AT THIS TIME. HYDRAULIC CONSIDERATIONS FOR EACH SITE HAVE BEEN ASSESSED BASED ON EXISTING FEMA DOCUMENTS, LOCAL CONDITIONS AND ENGINEERING JUDGMENT.

2) ANY CONSTRUCTION WITHIN THE FLOODWAY MAY NOT INCREASE THE BASE FLOOD ELEVATION BY MORE THAN SIX (6) INCHES.

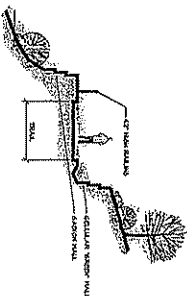
3) NO SUBSURFACE INVESTIGATIONS HAVE BEEN COMPLETED AT THIS TIME.

**BRIDGE NOTES**

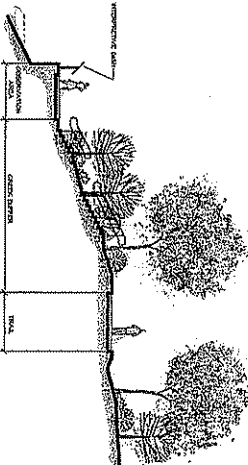
- 1) DUE TO THE WIDE FLOODPLAIN, RAISING THE BRIDGE STRUCTURES ABOVE THE FLOODPLAIN IS IMPRACTICAL. A MORE REASONABLE SOLUTION IS TO LOWER THE STRUCTURE TO MINIMIZE THE AMOUNT OF FILL, THEREBY MINIMIZING THE HYDRAULIC IMPACT ON THE CREEK.
- 2) BRIDGES SHOWN HAVE THE CAPABILITY TO CARRY SMALL VEHICLES FOR ROUTINE TRAIL MAINTENANCE (GOLF CART OR SOMETHING LESS THAN A PICKUP TRUCK).
- 3) BRIDGES SHOWN ARE PRE-ENGINEERED, PREFABRICATED, SINGLE SPAN TRUSS BRIDGES. THEY COME IN WIDE RANGE OF AESTHETIC AND SAFETY OPTIONS. NOTE THAT SKETCHES PORTRAYED ARE APPROXIMATE AND MAY NOT REQUIRE ARCHING GRADERS SHOWN.
- 4) WELDING STEEL FINISH IS RECOMMENDED OVER PAINTED FINISH DUE TO 2) AND 3) ABOVE. BRIDGES SHOULD BE ORDERED THAT LEAST LIKELY BE REQUIRED SINCE ACQUIRING WELDING STEEL OF THAT LENGTH IS DIFFICULT.
- 5) BECAUSE OF THE LONGER SPANS ON THIS PROJECT THE BRIDGE DESIGN IS RECOMMENDED TO BE CONCRETE. IT DISTRIBUTES THE LOAD THUS REDUCING STRUCTURAL STEEL. COMPOSITE DECKING MATERIALS MAY BE USED ON BRIDGES WITH SHORTER SPANS.



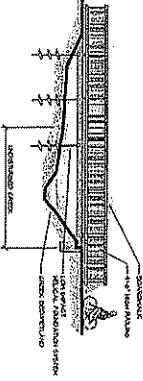
1 MORSE ROAD UNDERPASS  
NOT TO SCALE



2 MORSE ROAD RAMP TO GRADE  
NOT TO SCALE



3 HISTORIC BRIDGE OVERLOOK  
NOT TO SCALE



4 TRIBUTARY WETLAND CROSSING  
NOT TO SCALE

**UNDERPASS NOTES**

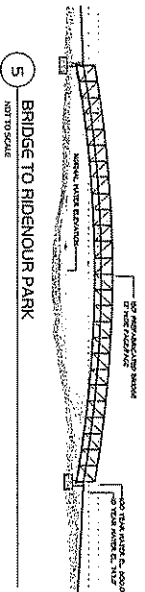
1) THREE UNDERPASSES WERE INVESTIGATED, SPECIFICALLY MORSE ROAD, 1-270 AND HAMILTON ROAD. THEY WERE REVIEWED FOR THEIR INTERACTION WITH EXISTING BRIDGES, TRAIL SURFACES, FLOOD PROTECTION AND SAFETY CONTROLS.

2) DUE TO THE HIGH PROBABILITY THAT THE TRAIL WILL BE SUBJECT TO FLOODING AT THESE LOCATIONS, ARRANGEMENTS WERE DEVELOPED THAT MINIMIZE THE IMPACT ON FLOODWAY AND EXISTING STRUCTURES.

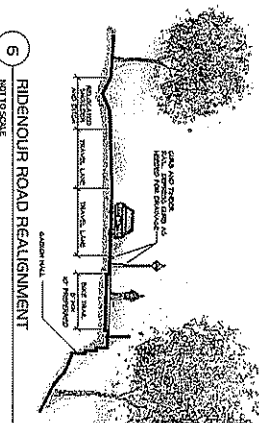
3) GABION RETAINING WALLS ARE RECOMMENDED DUE TO THEIR WATERWAY APPLICATIONS, LOW MAINTENANCE, STABLE GRAVITY SYSTEM, FLEXIBLE ADJUSTMENTS AND AVAILABILITY OF WIDE RANGE OF COLORS AND TEXTURES.

4) THE TRAIL SLICES AT UNDERPASSES IS CONCRETE OVER REINFORCED BASE. WETLAND DESIGN GUIDELINES. IT SHOULD HAVE CONTROL JOINTS AND SUB RESISTANT BROOM FINISH. AN ASPHALT SURFACE TO ACT AS A WEARING COURSE SHOULD BE CONSIDERED.

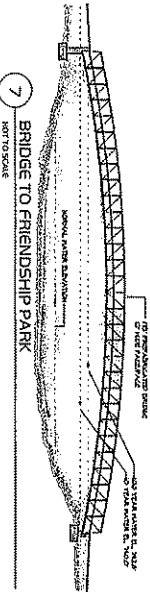
5) SAFETY RAILING MEETING ODOT STANDARDS IS RECOMMENDED. RAILING TO BE A MINIMUM HEIGHT OF 4'-6". THE MINIMUM VERTICAL HEAD CLEARANCE IS TEN (10) FEET.



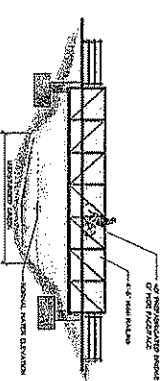
5 BRIDGE TO RIDENOUR PARK  
NOT TO SCALE



6 RIDENOUR ROAD REALIGNMENT  
NOT TO SCALE



7 BRIDGE TO FRIENDSHIP PARK  
NOT TO SCALE



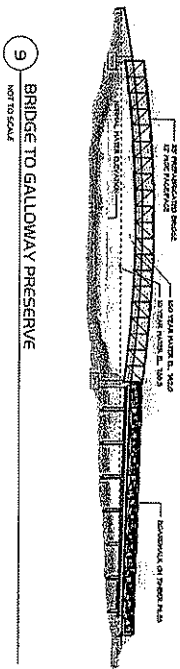
8 DITCH CROSSING  
NOT TO SCALE

# BIG WALNUT TRAIL

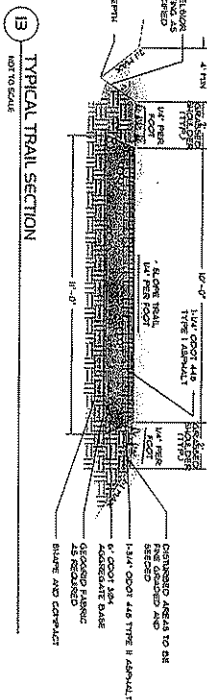
CITY OF GAHANNA, OHIO

CONCEPT PLAN

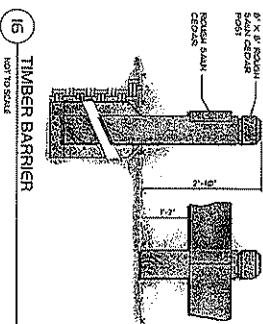
5



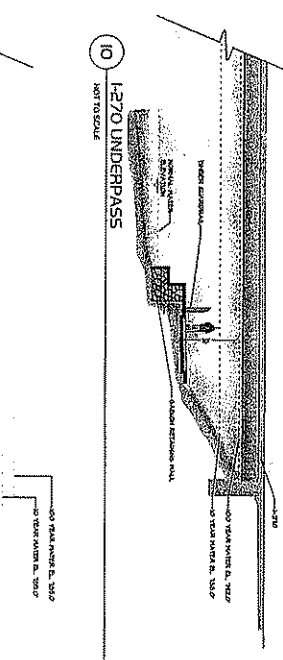
9 BRIDGE TO GALLOWAY PRESERVE  
NOT TO SCALE



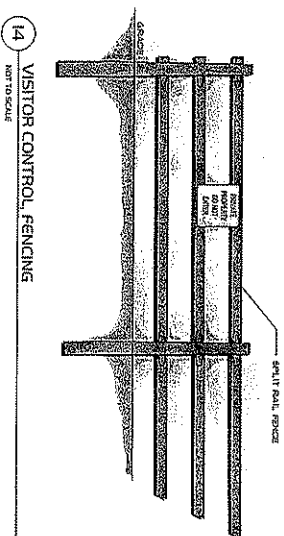
13 TYPICAL TRAIL SECTION  
NOT TO SCALE



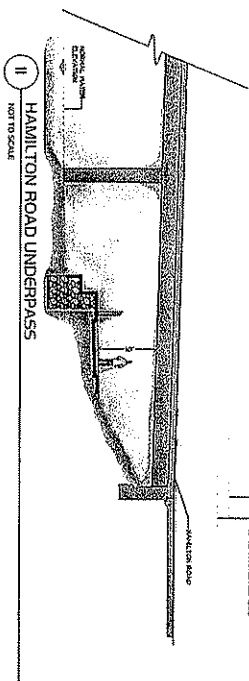
16 TIMBER BARRIER  
NOT TO SCALE



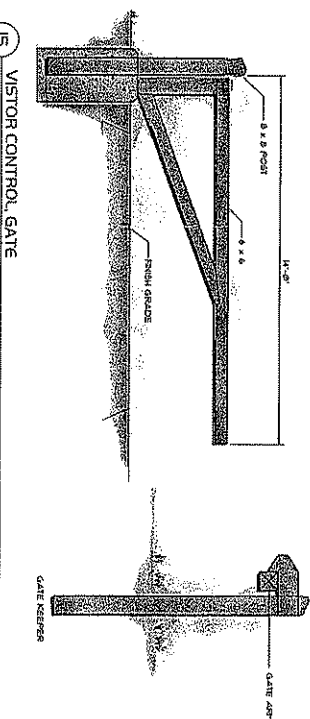
10 L-270 UNDERPASS  
NOT TO SCALE



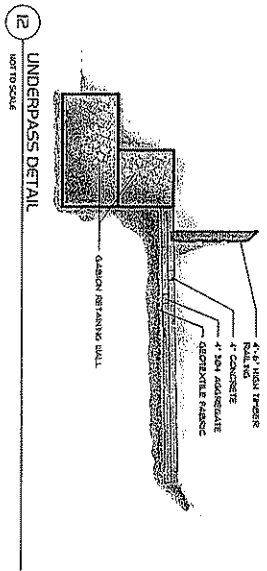
14 VISITOR CONTROL, FENCING  
NOT TO SCALE



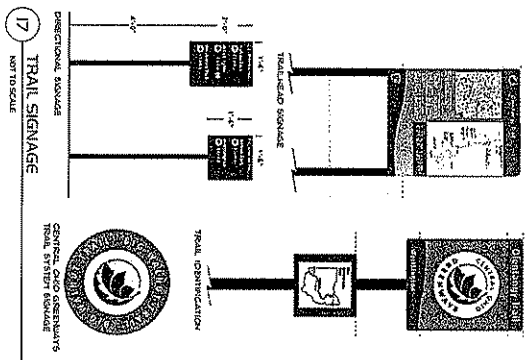
11 HAMILTON ROAD UNDERPASS  
NOT TO SCALE



15 VISITOR CONTROL, GATE  
NOT TO SCALE



12 UNDERPASS DETAIL  
NOT TO SCALE



17 TRAIL SIGNAGE  
NOT TO SCALE

# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

6