



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890



July 26, 1996

Regulatory Branch

Action ID No. 199604162 and Nationwide Permit No. 26 (Headwaters and Isolated Waters)

Appalachian State University
Dr. Clyde Robbins, Associate Vice Chancellor
Physical Operations
265 Dale Street
Boone, North Carolina 28608

Dear Dr. Robbins:

Reference your April 2, 1996 application, submitted on your behalf by Ogden Environmental and Engineering, for Department of the Army (DA) authorization to culvert approximately 450 linear feet of Boone Creek with a 4 barrel, 10 foot by 10 foot reinforced concrete box culvert, on the Appalachian State University campus adjacent to the Rivers Street and U.S. 321 intersection, in Boone, Watauga County, North Carolina. The purpose for the project is to accomodate the future NCDOT widening of U.S. 321 and facilitate the construction of the Appalachian Convocation Center multi-purpose facility. As a result of the project, approximately 0.32 acre of headwater stream channel will be impacted. No wetlands will be impacted. This project has been coordinated with the NC Wildlife Resources Commission (WRC).

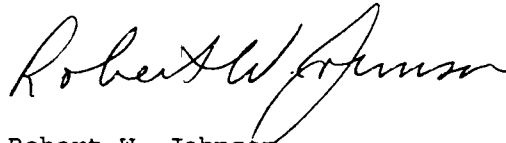
For the purposes of the Corps of Engineers' Regulatory Program, Title 33, Code of Federal Regulations (CFR), Part 330.6, published in the Federal Register on November 22, 1991, lists nationwide permits. Authorization was provided, pursuant to Section 404 of the Clean Water Act, for discharges of dredged or fill material into headwaters and isolated waters.

Your work is authorized by this nationwide permit provided it is accomplished in strict accordance with the enclosed conditions. This nationwide permit does not relieve you of the responsibility to obtain other required State or local approval.

This verification will be valid until the nationwide permit is modified, reissued or revoked. All the nationwide permits are scheduled to be modified, reissued or revoked prior to 21 January 1997. It is incumbent upon you to remain informed of changes to the nationwide permits. We will issue a public notice announcing the changes when they occur. Furthermore, if you commence or are under contract to commence this activity before the date the nationwide permit is modified or revoked, you will have twelve months from the date of the modification or revocation to complete the activity under the present terms and conditions of this nationwide permit.

Questions or comments may be addressed to Mr. Steve Chapin, Asheville Field Office, at (704) 271-4014.

Sincerely,



Robert W. Johnson
Office Manager
Asheville Field Office

Enclosure

Copies Furnished (without enclosure):

Mr. John Dorney
Water Quality Section
Division of Environmental Management
North Carolina Department of
Environment, Health and
Natural Resources
4401 Reedy Creek Road
Raleigh, North Carolina 27607

Mr. John D. Fersner, III
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Water Quality

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
A. Preston Howard, Jr., P.E., Director



July 8, 1996
Watauga County
DWQ Project # 960467

APPROVAL of 401 Water Quality Certification

Dr. Clyde Robbins
Physical Operations
Associate Vice Chancellor
Appalachian State University
Boone, NC 28608

Dear Dr. Robbins:

You have our approval to place fill material in 0.31 acres of wetlands or waters for the purpose of constructing a convention center at Appalachian State University Campus, as you described in your application dated 8 April 1996 with a clarification sent from your engineering consultant dated 3 July 1996. After reviewing your application, we have decided that this fill is covered by General Water Quality Certification Number 2671. This certification allows you to use Nationwide Permit Number 26 when it is issued by the Corps of Engineers.

This approval is only valid for the purpose and design that you described in your application. If you change your project, you must notify us and you may be required to send us a new application. For this approval to be valid, you must follow the conditions listed in the attached certification. In addition, you should get any other federal, state or local permits before you go ahead with your project.

If you do not accept any of the conditions of this certification, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition which conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, P.O. Box 27447, Raleigh, N.C. 27611-7447. This certification and its conditions are final and binding unless you ask for a hearing.

This letter completes the review of the Division of Water Quality under Section 401 of the Clean Water Act. If you have any questions, please telephone John Dorney at 919-733-1786.

Sincerely,

A. Preston Howard, Jr. P.E.

Attachment

cc: Wilmington District Corps of Engineers
Corps of Engineers Raleigh Field Office
Winston-Salem DWQ Regional Office
Mr. John Dorney
Central Files
John Fersner, Ogden Environmental and Engineering Services
Melba McGee

960467.ltr



July 3, 1996

One Centerview Drive, Suite 203
Greensboro, NC 27407
910 855 8993
Fax 910 855 9049

Mr. John Dorney
Division of Environmental Management
NC DEHNR, Environmental Sciences Branch
4401 Reedy Creek Road
Raleigh, North Carolina 27607

RECEIVED
JUL 08 1996
ENVIRONMENTAL SCIENCES

Re: **ASU / Appalachian Convocation Center in Boone, NC
401 Water Quality Certification**

Dear Mr. Dorney:

This letter is a follow-up as per your request to our June 28, 1996 telephone conversation regarding the above referenced project. The information for this project was submitted to your office via an April 8, 1996 letter from Scott Bryant of Ogden Environmental. The attachment to that letter was a *Joint Form Application for Section 404 Nationwide Permit (Nationwide Permit #26)*. As detailed in the application, the impact to the waters of the US is less than one-third of an acre and no wetlands are affected by the proposed project. The total area of impact of 0.31 acres was determined by using a typical bank-to-bank top of channel width of approximately 30 feet. Based on discussions with both the US Army Corps of Engineers and NC DEM, the calculation for computing the area of impact seeks to use the width at the level of ordinary high water. The width at the level of ordinary high water will thus be less than 30 feet. Therefore, the computed area of 0.31 acres represents a very conservative and absolute maximum value.

Since the area of impact was less than one-third of an acre, written approval from NC DEM with regards to 401 water quality certification was not required. However, we did respectfully request your written concurrence as per Section 401 General Certification #2671. In response to our application, you forwarded a May 16, 1996 letter to Dr. Clyde Robbins of Appalachian State University indicating that the US Army Corps of Engineers in Asheville was likely to add the impact from this project (0.31 acres) to the impact (0.22 acres) from the ASU steam plant modifications. This would have then required 401 water quality certification for the proposed Convocation Center. However, based on a June 27, 1996 telephone conversation with Mr. Bob Johnson of the Corps of Engineers' Asheville office, he stated that the Corps could authorize the stream restoration activities related to the steam plant modifications under Nationwide Permit #18. The activities for the Convocation Center will be authorized under Nationwide Permit #26. Therefore, the Corps is regarding the two project activities as separate and distinct. In so doing, the Corps will not add the two areas of impact together to arrive at a new "total" area of impact.

permits

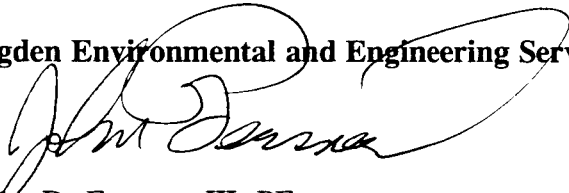
Mr. John Dorney
July 3, 1996
Page 2

Based on the above assessment, the area of impact to waters of the US for the Convocation Center will be less than one-third of an acre. Thus, written approval from NC DEM for 401 water quality certification is not required. However, we again respectfully request your written concurrence as per Section 401 General Certification #2671. We respectfully request that this correspondence be forwarded to the Corps of Engineers at your earliest convenience.

Thank you for your cooperation and assistance in resolving the above permitting issues. If you have any questions or require additional information or clarification, please give me a call.

Sincerely yours,

Ogden Environmental and Engineering Services



John D. Fersner, III, PE
Project Manager

cc: Mr. Bob Johnson, US Army COE, Asheville
Mr. Ron Linville, NC DEM, Winston-Salem
Dr. Clyde Robbins, ASU
Mr. Martin Rock, Omni Professional Environmental Associates
Mr. Joe Hatem, Wash Hatem Nelson
Mr. Mark Zack, Hakan Corley Redfoot Zack
Mr. Mike Hammersley, Hakan Corley Redfoot Zack
Ms. Barbara Rector, Ogden, Oak Ridge
Mr. Scott Bryant, Ogden
File

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Management



James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
A. Preston Howard, Jr., P.E., Director

May 16, 1996

Dr. Clyde Robbins
Physical Operations
Associate Vice Chancellor
Appalachian State University
Boone, NC 28608

Dear Mr. Robbins:

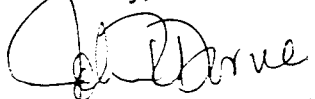
Re: 401 Water Quality Certification
Appalachian State University Convocation Center
Watauga County
DEM #960467

On 8 April 1996 you wrote to the Division of Environmental Management (DEM) requesting a 401 Water Quality Certification for your project to fill wetlands for burial of a portion of Boone Creek to construct the Convocation Center at ASU in Boone in Watauga County. We believe that this project is currently under review by the State Clearinghouse. DEM cannot issue the 401 Certification until the project has received a Finding of No Significant Impact (FONSI) or Record of Decision (ROD) from the State Clearinghouse in accordance with NCAC 15A: 01C .0402. Therefore, I must hereby place this project on indefinite hold until the State Clearinghouse has issued the FONSI or ROD. However we will continue to review the project and make you aware of any concerns. We recommend that you notify us that the NEPA/SEPA process is complete so we can reactivate the project. In addition, by copy of this letter, I am also notifying the U.S. Army Corps of Engineers that this project should be placed on hold.

According to Mr. Bob Johnson of the U.S. Army Corps of Engineers in Asheville, the impact from this project (0.31 acres) is likely to be added to the impact (0.22 acres) to Boone Creek for the ASU steam plant modifications since these projects impact the same stream. Mr. Johnson informs me that the COE has approved the other impacts (0.22 acres) which we have placed on hold until the EA/FONSI process is complete (please see my letter of 18 March 1996 to Dr. Robbins). With respect to the Convocation Center since a 401 Certification will be required and additional impervious stormwater management will be needed before DEM can grant this (this length of perennial stream may be an issue in terms of protective detention basin could address both issues.

Please call me at 919-733-1786 to discuss the matter, especially Convocation Center site.

Sincerely,


John R. Dorney
Water Quality Certification

Convocation Center ^{6/28}
flooding ↑
downstream concern.

cc: Winston-Salem DEM Regional Office
U.S. Army Corps of Engineers Wilmington District Office
Central Files
Scott Bryant; Ogden Environmental and Engineering Services
Bob Johnson; Asheville Field Office COE
Melba McGee

960467.nocert

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
A. Preston Howard, Jr., P.E., Director



FAX TO: Ron Simille

FAX NUMBER: _____

FROM: John Draney

PHONE: _____

NO. OF PAGES INCLUDING THIS SHEET: 3

COMMENTS: Scott Bryant will be
~~calling~~ calling. Good luck w/
stormwater issue.

[Signature]

March 15, 1996

Ms. Chrys Baggett, Director
State Clearinghouse
116 West Jones Street
Raleigh, North Carolina 27603-8003

One Centerview Drive, Suite 203
Greensboro, NC 27407
910 855 8993
Fax 910 855 9049

RECEIVED

MAR 16 1996

RE: **ENVIRONMENTAL ASSESSMENT SCOPING NOTICE**
Appalachian State University, Boone, North Carolina
Appalachian Convocation Center Construction
CODE 49430, ITEM 301, ID#6087300302A

N.C. STATE CLEARINGHOUSE

Dear Ms. Baggett:

Appalachian State University (ASU) is planning to construct a convocation center facility just below existing Lackey Field where university tennis courts currently exist. The proposed construction site lies in the 100-year floodplain of Boone Creek just above the existing intersection of Highway 321 and Rivers Street. Ogden Environmental and Engineering Services Co., Inc. (Ogden) of Greensboro, North Carolina, has been retained to prepare the Environmental Assessment (EA) for the convocation center construction in accordance with the requirements of the North Carolina Environmental Policy Act (NCEPA), General Statutes 113A-1 through 113A-12.¹ Ogden submits this Scoping Notice on behalf of ASU and the design team as the first step in the process to prepare the EA for the convocation center construction.

The purpose of this Scoping Notice is to notify interested parties and State agencies of the convocation center construction and to solicit information and comments concerning relevant environmental issues, structures, or features related to the construction. This Scoping Notice is submitted to the State Clearinghouse for publication in the North Carolina Environmental Bulletin and distribution to interested parties and State agencies. The Scoping Notice makes public the investigation of all environmental issues associated with this project. All information and comments received during the 30 working day review period will be considered when preparing the EA.

SCOPE OF STUDY

This Scoping Notice includes a discussion of the project description, the need for the project, and the general approach to the EA. Topics which will be covered in the EA include potential impacts to land use; air quality; water quality; wetlands; floodplains; fish and wildlife including protected, game, and nongame species; fish and wildlife habitats; archaeological and historic sites; noise levels; waste generation; infrastructure; storm water management and flood control; recreational facilities; and the Town of Boone. This Scoping Notice includes a discussion of those areas that apparently are not impacted as a result of the convocation center construction and those that are proposed for further study (which will be addressed in the final EA).

¹ ASU has retained the architectural, engineering, and planning firm of Hakan Corley Redfoot Zack, Inc., of Chapel Hill, North Carolina as the primary designer for the project. Ogden was retained to perform the environmental consulting and engineering services required for the convocation center construction.

The project discussed in this Scoping Notice is the construction of the Appalachian Convocation Center. Construction activities associated with two adjacent projects will also affect the subject site. These activities will be conducted prior to, or in conjunction with, the convocation center construction. A planned "natural mountain stream" restoration area just upstream from the convocation center site includes the realignment of Rivers Street with US 321 (Blowing Rock Road); this is part of the ASU Phase 2 boiler plant replacement project which is currently in design phase. The EA submitted for the boiler plant replacement assessed the impact of creating the natural mountain stream area by restoring an underground culverted portion of Boone Creek. Another project is the widening of Highway 321 adjacent to the planned convocation center site. Widening of Highway 321 is a North Carolina Department of Transportation (NCDOT) project. The EA for the convocation center construction will address the impacts of work in the 100-year floodplain to accommodate the construction of the convocation center and widening of Highway 321 adjacent to the proposed center.

PROJECT DESCRIPTION AND NEED FOR PROJECT

The Appalachian Convocation Center facility will serve as a multi-purpose place of assembly for university convocations, public speakers, various sports tournaments, training camps, family entertainment shows, conventions, and trade association events and exhibits. The convocation center will serve the Town of Boone, ASU, and the western North Carolina region.

The proposed construction site is located adjacent to Boone Creek just downstream of existing ASU Lackey Field (baseball field) and upstream of the existing intersection of Highway 321 and Rivers Street in Boone (Figure 1 provides a general vicinity map for the proposed construction site). Portions of the site lie in the 100-year floodplain of Boone Creek. The proposed construction will take place following Phase 1 and 2 of the ASU boiler plant replacement project and concurrently with NCDOT work to widen Highway 321.

The construction of an approximate 225,250 square foot convocation center with a 10,000 person seating capacity is planned near the entrance area on campus, now occupied by the lower portion of Lackey Field and several tennis courts (Figure 2 shows the site as it currently exists). The construction will require filling and grading within the 100-year floodplain to elevate the site's topography for the convocation center and widening of Highway 321. The approximate 450-foot open channel portion of Boone Creek currently next to the tennis courts will be placed in a box culvert to facilitate the grading and filling and convey stream flow. The Phase 2 boiler plant project includes the relocation of Lackey Field to another campus site. It is also anticipated that the tennis courts will be relocated to another campus location.

The restoration of the culverted upstream portion of Boone Creek into a "natural mountain stream" is also part of the Phase 2 boiler plant replacement and is addressed in the EA submitted for that project. This natural mountain stream will be constructed between the boiler plant and proposed convocation center. Boone Creek will flow through this restored area which will be landscaped with natural vegetation.

The new main campus entrance will highlight the newly restored creek area and the convocation center facility (Figure 3 shows the proposed site conditions).

EXISTING ENVIRONMENT

ASU is located in the Town of Boone, Watauga County, which is in the northwestern part of North Carolina. Watauga County is part of the mountainous Blue Ridge land resource area which includes rolling hills and broad valleys. The scenic Blue Ridge Parkway and Pisgah National Forest are located within five miles of the ASU campus. The campus topography is characterized by a long valley located near the Eastern Continental Divide. The proposed site for the convocation center is currently owned by ASU and occupied mainly by part of Lackey Field, several university tennis courts, and a portion of existing Rivers Street. The surrounding town of Boone is commercially developed. There are several recreational ski resorts in the surrounding area. Currently, soils at the proposed convocation center site are being reclassified by the Natural Resource Conservation Service (formerly the Soil Conservation Service). Most of the site has been owned by ASU for over 75 years and was developed by ASU for recreational purposes including Lackey Field and tennis courts. Boone Creek, a tributary of the New River, runs through the proposed site.


ENVIRONMENTAL CONSIDERATIONS

Changes in Land Use

The proposed site is located at the main entrance of the ASU campus which is in an urban area. Current land use at the proposed site is recreational. Construction of the convocation center will alter current land use. The open channel portion of Boone Creek, flowing through the proposed site, will be placed in a box culvert. The existing 100-year floodplain in the immediate site area will be removed and the stream will be contained within a box culvert following fill and grading activities. As part of the boiler plant replacement project, the culverted portion of Boone Creek immediately upstream of the convocation center site will be restored to an open channel. The location for the natural mountain stream area and a portion of the convocation center is currently occupied by part of Lackey Field. The convocation center development will replace the lower portion of Lackey Field and several university tennis courts. These recreational facilities will be eliminated as a result of the planned construction; this loss will be mitigated by the construction of similar facilities elsewhere on campus. Aesthetically and ecologically, the campus will be positively impacted by the creation of the convocation center and natural mountain stream area. The EA for the convocation center construction will therefore further evaluate the impact of culverting the open channel portion of Boone Creek and modifying the existing floodplain environment.

Wetlands

Mr. Steve Chapin of the U.S. Army Corps of Engineers (COE) stated in a letter to Ogden dated September 8, 1995, (and again at a meeting held at ASU on February 22, 1996) that there are no wetlands on the proposed site. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.



Waters of the U.S./State

Activities that result in the discharge of fill material into waters of the U.S./State require a Section 404 permit from the COE and, in some cases, a 401 Water Quality Certification from the North Carolina Division of Environmental Management (NC DEM). As part of the convocation center and Highway 321 widening projects, the open portion of Boone Creek adjacent to the tennis courts will be culverted and the elevation of the area raised by fill and grading activities. The total affected waterway for the convocation center project is less than one-third of an acre. This estimate was calculated based on the existing 450 linear feet of open channel and an ordinary high water level width of 30 feet or less, on the average.

On February 22, 1996, a meeting was held at ASU with the COE and NC DEM to discuss the project scope, discuss permitting requirements, and visit the proposed construction site. During this meeting the COE stated that the project is eligible for permitting through Nationwide Permit 26 (NWP26), Headwaters and Isolated Waters, under the Section 404 program. Although the impacted waterway is estimated at one-third of an acre or less, a joint application for the NWP26 under Section 404 and the WQC #2671 General Certification under Section 401 will be submitted for this project as agreed upon by COE and DEM. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Prime or Unique Agricultural Lands

The project does not encompass any agricultural lands. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Public Lands and Scenic Recreational Areas

The North Carolina Park Service indicated that there are no State parks within a five mile radius of the ASU campus. Using the 7.5' U.S. Geological Survey (USGS) topographic map (Boone, NC Quadrangle) it was determined that Pisgah National Forest is within one mile of the ASU campus. Another 7.5' USGS topographic map (Deep Gap, NC Quadrangle) was used to locate the Blue Ridge Parkway, which is within five miles of the ASU campus. No impact to these areas is anticipated as a result of this project. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Infrastructure

During construction, temporary increases in traffic concentrations will occur due to construction traffic and minor road closures/rerouting. Traffic disruptions should be minimized, however, because the Rivers Street realignment with Highway 321 will be completed prior to significant work on the convocation center site. After the convocation center project is completed, traffic concentrations should return to normal in light of the planned improvements to Highway 321 and Rivers Street. During events held at the convocation center, there will be increased traffic in the area. However, road improvements made in conjunction with this project should accommodate

an increased traffic volume. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Areas of Archaeological or Historical Value

The State Historic Preservation Office (SHPO) in Raleigh was contacted to verify that the ASU campus is not a Historic District nor are any campus buildings on the state list of potential historic sties. Generally, buildings must be more than fifty years old before they are considered for listing on the National Register of Historic Places. No known archaeological sites are present on the ASU campus. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Air Quality

No potential air quality impacts have been identified in relation to the convocation center construction. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Groundwater Quality

No impact on groundwater is expected as a result of this project. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Noise Levels

The Town of Boone ordinance 1989-04 (An Ordinance Regulating Unreasonably Loud and Disturbing Noise in the Town of Boone) establishes the noise level requirements for this project. Temporarily, there will be construction noise from on-site activities, but the noise is not anticipated to be above levels set in the ordinance. Once the convocation center is complete, no noise above the levels in the ordinance is anticipated when the center is in use and filled to capacity. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Water Supplies

Potable water supplies will not be affected by this construction project. There are no known water supply wells in the proposed site. ASU supplies its own water to most of the campus. Water quality standards and classifications are set by NC DEM under the North Carolina Administrative Code (NCAC) Section 15A NCAC 2B.0301 through .0317. Boone Creek is identified as a Class C Tr + water. "C" means it is suitable for aquatic life propagation and survival, fishing, wildlife, secondary recreation, and agriculture. "Tr" stands for Trout Waters meaning it is suitable for natural trout propagation and maintenance of stocked trout. The "+" symbol indicates it is a water subject to special management strategy specified in 15A NCAC 2B.0216, the Outstanding Resource Waters (ORW) rule, in order to protect downstream waters designated as ORW.

For Boone Creek, the ORW rule prohibits new discharges or expansions of existing discharges. The ORW rule requires the development of an Erosion and Sedimentation Control Plan in accordance with the rules established by the North Carolina Sedimentation Control Commission or an appropriate local erosion and sedimentation control program. The construction will require the diversion of Boone Creek when it is "in the dry" to culvert the open channel. During the construction, storm water runoff is the only discharge expected. After the construction is completed, storm water discharges are still the only discharges anticipated. The construction of the convocation center is not expected to have any significant adverse impacts on Boone Creek or the water supplies downstream. Best Management Practices (BMPs) incorporated into the Erosion and Sedimentation Control Plan will be implemented during construction. Any potential impacts from erosion and sedimentation will be addressed in the Erosion and Sedimentation Control Plan for this project. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Shellfish or Fish and Their Habitats

The regulations at 15A NCAC 2B.0307 indicate Boone Creek is classified as Trout Waters by the North Carolina Wildlife Resources Commission (NC WRC). Trout Waters are those waters of the State suitable for natural propagation and maintenance of stocked trout. Mr. Joe Mickey, Fisheries Biologist for District 7 (which includes Watauga County), stated that this section of Boone Creek does not have any known trout populations at this time. He did state that Boone Creek feeds into Trout Waters downstream. No adverse impacts to these downstream waters are anticipated. No significant loss of fish or shellfish habitat from the culverting of this portion of the creek will occur. The natural mountain stream habitat created as part of the Phase 2 boiler plant replacement project upstream will create a more diverse aquatic habitat. Any potential impacts from erosion and sedimentation will be addressed in the Erosion and Sedimentation Control Plan for this project. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Wildlife and Their Habitats

At the meeting on February 22, 1996, Mr. Joe Mickey of the NC WRC stated that there are no known federal or state-listed threatened or endangered species in the area of the proposed site. The state list of threatened and endangered species that may potentially be found in Watauga County was requested from NC WRC on March 5, 1996. The federally-listed threatened and endangered species which may potentially be found in Watauga County includes:

Carolina northern flying squirrel (*Glaucomys sabrinus coloratus*);
Blue Ridge goldenrod (*Solidago spithamea*);
Heller's blazing star (*Liatris helleri*);
Spreading avens (*Geum radiatum*);
Roan mountain bluet (*Hedyotis purpurea var. montana*); and
Virginia big-eared bat (*Plecotus townsendii virginianus*).

None of these species are known to be present in the vicinity of the proposed site. Overall, the proposed site is currently developed and the grounds are maintained by ASU. The restored stream area adjacent to the convocation center will create a more diverse wildlife habitat.

Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Introduction of Toxic Substances

No toxic substances are anticipated to be introduced into the environment as a result of this project. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Eutrophication of Receiving Waters

The culverting of the open portion of Boone Creek is not expected to cause eutrophication of Boone Creek or any receiving waters. Sedimentation control practices which will be used during construction will be addressed in the Erosion and Sedimentation Control Plan. Further, hydrologic and hydraulic modeling will be provided for the design of the culvert at the proposed site with a goal to eliminate or minimize any significant impacts of the culvert upon flowrates and base flood levels along Boone Creek. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

Boone Creek Floodplain

Portions of the proposed convocation center site lie in the 100-year floodplain of Boone Creek as determined by FEMA. Within the limits of the proposed site, the existing 100-year FEMA floodplain is located at approximately elevation 3,156 feet. In order to place the convocation center facility safely above 100-year base flood levels, the elevation of the proposed site will be increased and the finished floor for the convocation center will be at approximate elevation 3,164 feet. A FEMA Conditional Letter of Map Revision (CLOMR) will be prepared to document the proposed stream and floodplain modifications resulting from the project. The CLOMR will follow FEMA procedures and guidelines for proposed modifications to a regulatory floodplain. Further, the designers for the convocation center project are working closely with the Town of Boone, FEMA, and the State of NC to ensure that the design meets all applicable floodplain development requirements.

Storm Water

At the February 22, 1996 meeting, the NC DEM stated that a National Pollutant Discharge Elimination System (NPDES) storm water permit would not be required for the convocation center construction. Storm water from the ASU campus currently is discharged into Boone Creek. During heavy rains, the current capacity of the upstream underground culverted section (88-inch arch pipe under Lackey Field) and downstream culverted sections of Boone Creek are inadequate. Adjacent to the convocation center, Rivers Street will be realigned and Highway 321 will be widened. This roadwork, along with the construction of the convocation center, will require the culverting of the 450-foot open portion of Boone Creek and modification of the floodplain by filling and grading. The volume and rate of water flowing through Boone Creek is not anticipated to change significantly during construction or when the project is complete. Again, hydrologic and hydraulic modeling will be conducted to design the appropriate parameters for the culvert. Any potential impacts from erosion and sedimentation will be

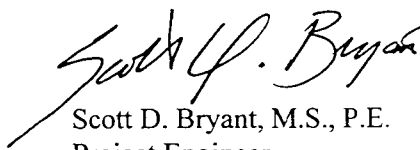
addressed in the Erosion and Sedimentation Control Plan for this project. Therefore, unless additional comments are received as a result of this Scoping Notice, this category will not require further evaluation during the EA.

CONCLUSION

In conclusion, the purpose of this Scoping Notice is to notify and inform interested parties and State agencies of the proposed convocation center construction project. We encourage any comments you may have relative to your area of expertise or concern. All information and comments on relevant environmental issues, structures, or features related to the convocation center construction will be evaluated for the EA.

ASU and Ogden would appreciate any comments you may wish to make on this project within 30 working days of receipt of this notice. If further information is needed, you may contact Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations, ASU, at (704) 262-4961 or Mr. Scott Bryant, Project Engineer, Ogden, at (910) 855-8993. Thank you for your careful consideration of this Scoping Notice.

Sincerely,
Ogden Environmental and Engineering Services Co., Inc.



Scott D. Bryant, M.S., P.E.
Project Engineer

cc:

Dr. Clyde Robbins, ASU	Mr. Mark Zack, AIA, Hakan Corley Redfoot Zack
Mr. Joe Mickey, NC WRC	Mr. Mike Hammersley, PE, Hakan Corley Redfoot Zack
Mr. Steve Chapin, US Army COE	Mr. Herbert Neily, PE, State Construction Office
Mr. Ron Linville, NC DEM	Mr. Doug Jewell, PE, Ogden
Ms. Tara Halstead, JD, REP, Ogden	Ms. Barbara Rector, MS, Ogden
Mr. John Fersner, PE, Ogden	Mr. Keith Readling, PE, Ogden
Mr. Woody Wicker, Ogden	File

Attachments:

Figure 1
Figure 2
Figure 3

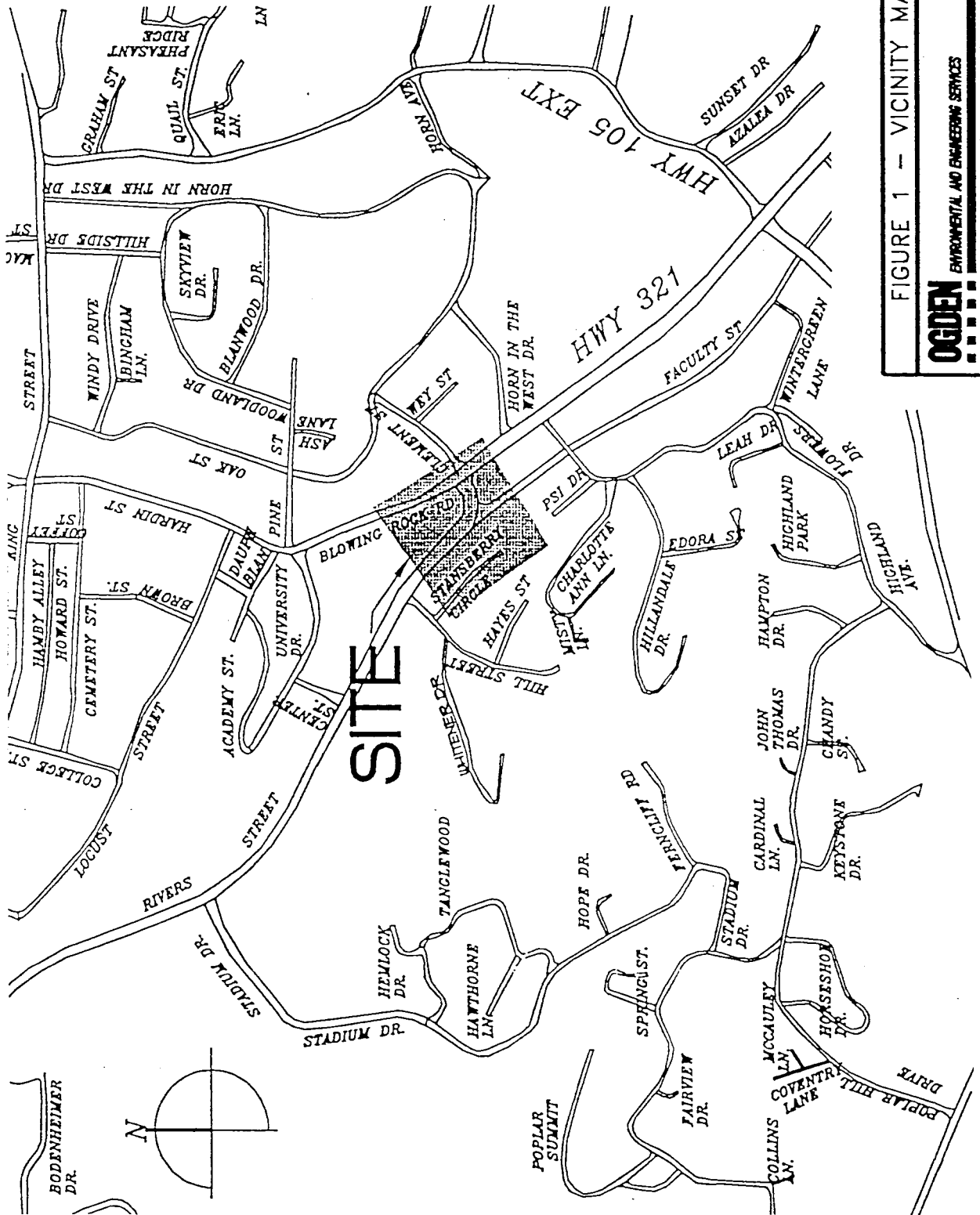


FIGURE 1 - VICINITY MAP

OGDEN
 ENVIRONMENTAL AND ENGINEERING SERVICES
 1 CENTERVIEW DR., SUITE 203 • GREENSBORO, NC 27407 • 910-455-8683
 PROJ: ASU C.C. NO SCALE DATE: 3-12-86

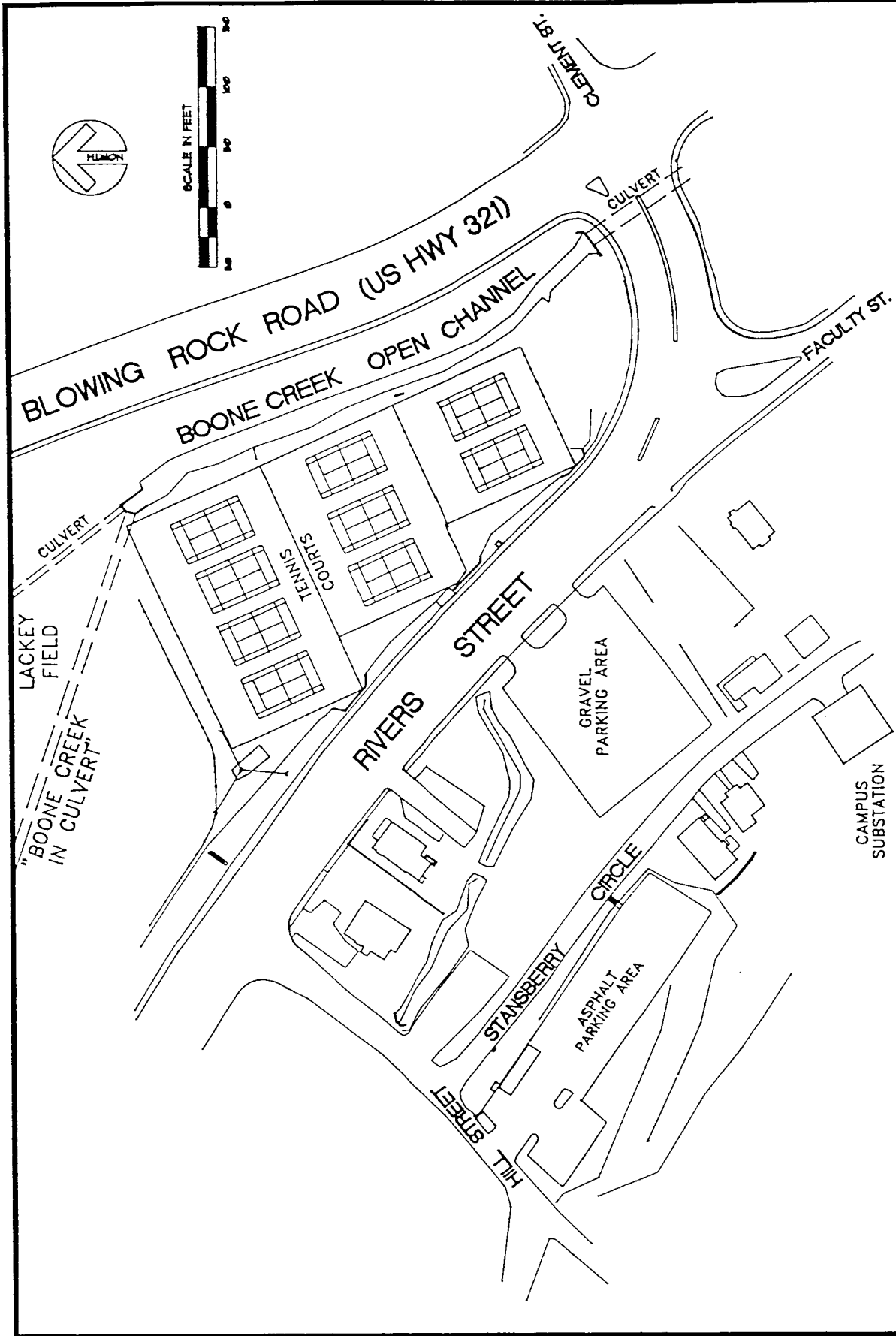


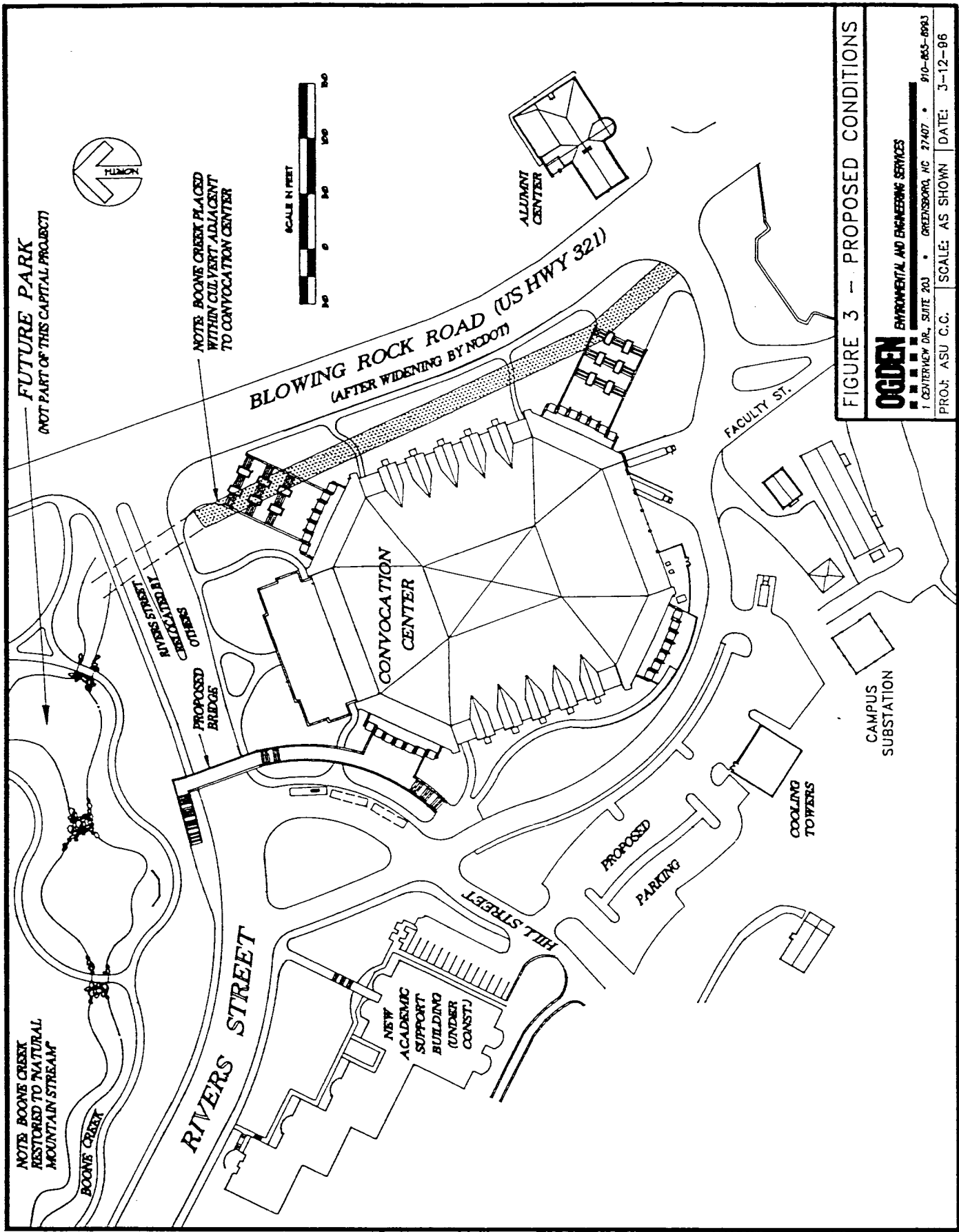
FIGURE 2 - EXISTING CONDITIONS

OGDEN

ENVIRONMENTAL AND ENGINEERING SERVICES

1 CENTERVIEW DR., SUITE 203 • GREENSBORO, NC 27407 • 910-855-0993

PROJ: ASU C.C. SCALE: AS SHOWN DATE: 3-12-96



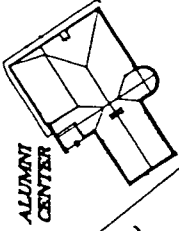
FUTURE PARK
(NOT PART OF THIS CAPITAL PROJECT)



NOTE: BOONE CREEK PLACED WITHIN CULVERT ADJACENT TO CONVOCATION CENTER



BLOWING ROCK ROAD (US HWY 321)
(AFTER WIDENING BY NCDOT)



ALLUVIAL CENTER

CONVOCATION CENTER

FACULTY ST.

CAMPUS SUBSTATION

COOLING TOWERS

PROPOSED PARKING

HILL STREET

RIVERS STREET

NEW ACADEMIC SUPPORT BUILDING (UNDER CONST.)

NOTE: BOONE CREEK RESTORED TO NATURAL MOUNTAIN STREAM

BOONE CREEK

RIVERS STREET / DESIGNATED BY OTHERS

PROPOSED BRIDGE

FIGURE 3 -- PROPOSED CONDITIONS

OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES

1 CENTERVIEW DR., SUITE 203 • GREENSBORO, NC 27407 • 910-653-0963

PROJ: ASU C.C. SCALE: AS SHOWN DATE: 3-12-96

One CenterView Drive, Suite 203
Greensboro, NC 27407
910 855 8993 Fax 910 855 9049

April 8, 1996

Mr. John Dorney
Division of Environmental Management
NC DEHNR, Environmental Sciences Branch
4401 Reedy Creek Road
Raleigh, North Carolina 27607

RECEIVED
APR 10 1996
ENVIRONMENTAL SCIENCES

RE: ASU/Appalachian Convocation Center in Boone, NC
Joint Application for Section 401/404 Permit; Nationwide Permit #26

Dear Mr. Dorney:

Please find enclosed seven copies of the joint application for Section 404 Nationwide Permit #26 for the ASU/Appalachian Convocation Center project. This project involves the unavoidable fill and culverting of approximately 450 linear feet of existing open stream channel along Boone Creek in order to accommodate the planned NCDOT widening of Highway 321 and facilitate construction of the multi-purpose Convocation Center facility.

The impact to waters of the US is less than one-third of an acre and no wetlands are affected by the proposed project. As we have discussed, written approval from NC DEM with regards to 401 water quality certification is not required for this project. However, we respectfully request the written concurrence from DEM re Section 401 General Certification #2671.

We appreciate the assistance discussions and a project Mr. Ron Linville, in par appropriate 401/404 permit to date will facilitate DEM questions or require addition.

EAT/ONS? call COE

by NC DEM in several pre-application. The Winston-Salem DEM office and helpful as we have worked towards an it project. We trust that these efforts application. Should you have any me a call at (910) 855-8993.

Very truly yours,
Ogden Environmental and Engineering Services Co., Inc.



Scott D. Bryant, PE
Project Engineer

Enclosures as noted

cc: Dr. Clyde Robbins, ASU
Steve Chapin, US Army COE
Ron Linville, NC DEM
Mark Zack, AIA, HCRZ
Mike Hammersley, PE, HCRZ
John Fersner, PE, Ogden
File



OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES

April 8, 1996

One Centerview Drive, Suite 203
Greensboro, NC 27407
910 855 8993 Fax 910 855 9049

Mr. Steve Chapin
US Army Corps of Engineers
151 Patton Avenue, Room 143
Asheville, North Carolina 28801-5006

RE: ASU/Appalachian Convocation Center
Section 404 Nationwide Permit #26 Application

COPY

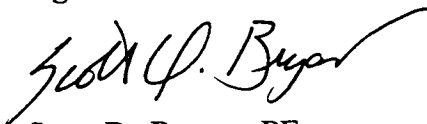
Dear Steve:

Please find enclosed the joint application for a Section 404 Nationwide Permit #26 for the ASU/Appalachian Convocation Center project. As we have discussed, this project involves the unavoidable fill and culverting of approximately 450 linear feet of existing open stream channel along Boone Creek in order to accommodate the planned NCDOT widening of Highway 321 and facilitate construction of the multi-purpose Convocation Center facility.

The impact to waters of the US is less than one-third of an acre and no wetlands are affected by the proposed project. While written approval from NC DEM with regards to 401 water quality certification is not required for this project, we have forwarded seven copies of this application to Mr. John Dorney in the Raleigh DEM office. In addition, we are submitting a copy of this application to Mr. Joe Mickey of the NC Wildlife Resources Commission and Ms. Sonja Wilson of the US Fish and Wildlife Service in Raleigh.

We appreciate your assistance and guidance in the pre-application discussions and project coordination meeting in Boone. We trust that these efforts to date will facilitate your review and approval of this application. Should you have any questions or require additional information, please give me a call at (910) 855-8993.

Very truly yours,
Ogden Environmental and Engineering Services Co., Inc.



Scott D. Bryant, PE
Project Engineer

Enclosure as noted

cc: Dr. Clyde Robbins, ASU ✓ John Dorney, NC DEM File
Sonja Wilson, US FWS Mark Zack, AIA, Hakan Corley Redfoot Zack
Joe Mickey, NC WRC Mike Hammersley, PE, Hakan Corley Redfoot Zack
Ron Linville, NC DEM John Fersner, PE, Ogden

APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide
Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

DEM ID: _____

ACTION ID: _____

Nationwide Permit Requested (Provide Nationwide Permit #): 26

JOINT FORM FOR

Nationwide permits that require notification to the Corps of Engineers
Nationwide permits that require application for Section 401 certification

WILMINGTON DISTRICT ENGINEER
CORPS OF ENGINEERS
DEPARTMENT OF THE ARMY
P.O. Box 1890
Wilmington, NC 28402-1890
ATTN: CESAW-CO-E
Telephone (919) 251-4511

DIVISION OF ENVIRONMENTAL MANAGEMENT
NC DEPARTMENT OF ENVIRONMENT, HEALTH,
AND NATURAL RESOURCES
ENVIRONMENTAL SCIENCES BRANCH
4401 Reedy Creek Road
Raleigh, N.C. 27607
ATTN: MR. JOHN DORNEY
Telephone (919) 733-1786

ONE (1) COPY OF THIS COMPLETED APPLICATION SHOULD BE SENT TO THE CORPS OF ENGINEERS.
SEVEN (7) COPIES SHOULD BE SENT TO THE N.C. DIVISION OF ENVIRONMENTAL MANAGEMENT.
PLEASE PRINT.

1. Owners Name: Appalachian State University, State of North Carolina

2. Owners Address: Apalachian State University, Boone, North Carolina 28608

3. Owners Phone Number (Home): N/A (Work): (704) 262-2000
(main number)

4. If Applicable: Agent's name or responsible corporate official, address, phone number:

Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations

Appalachian State University, 265 Dale Street, Boone, NC 28608

Office Phone Number: 704-262-4961

5. Location of work (MUST ATTACH MAP). County: Watauga

Nearest Town or City: Town of Boone

Specific Location (Include road numbers, landmarks, etc.): Along Boone Creek and floodplain

just below existing ASU Lackey Baseball Field and above the intersection of
existing Rivers Street and US 321 (Blowing Rock Rd) at the ASU main entrance.

6. Name of Closest Stream/River: Boone Creek

7. River Basin: New River Basin

8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? YES NO *

9. Have any Section 404 permits been previously requested for use on this property? YES NO

If yes, explain. NWP26 for Phase 1 Boiler Plant requested June 1995; NWP26 for Phase 2 Boiler
Plant requested February 26, 1996.

10. Estimated total number of acres of waters of the U.S., including wetlands, located on project site: 0.31 acre
of waters of the U.S. (Note: No wetlands located on project site.)

11. Number of acres of waters of the U.S., including wetlands, impacted by the proposed project:

Filled: 0.31 acre

Drained: N/A

Flooded: N/A

Excavated: N/A

Total Impacted: 0.31 acre

* Classified as "trout" by NC DEM

12. Description of proposed work (Attach PLANS-8 1/2" X 11" drawings only): Fill and culvert installation for 450 ft. of existing Boone Creek open channel.


13. Purpose of proposed work: Accommodate NCDOT widening of US 321 and facilitate construction of the Appalachian Convocation Center multi-purpose facility.

14. State reasons why the applicant believes that this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts. No wetlands are impacted by the proposed project.
(See attached supplemental information for more discussion on all items)

15. You are required to contact the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) regarding the presence or any Federally listed or proposed for listing endangered or threatened species or critical habitat in the permit area that may be affected by the proposed project. Have you done so? YES [X] NO []
RESPONSES FROM THE USFWS AND/OR NMFS SHOULD BE FORWARDED TO CORPS.

16. You are required to contact the State Historic Preservation Officer (SHPO) regarding the presence of historic properties in the permit area which may be affected by the proposed project? Have you done so? YES [X] NO []
RESPONSE FROM THE SHPO SHOULD BE FORWARDED TO CORPS.

17. Additional information required by DEM:
- A. Wetland delineation map showing all wetlands, streams, and lakes on the property. No wetlands. Attached maps show water features.
 - B. If available, representative photograph of wetlands to be impacted by project. See attachment 3
 - C. If delineation was performed by a consultant, include all data sheets relevant to the placement of the delineation line. N/A
 - D. If a stormwater management plan is required for this project, attach copy. See attachment 2
 - E. What is land use of surrounding property? Urban development (ASU, Boone commercial area)
 - F. If applicable, what is proposed method of sewage disposal? Tie-in to POTW.


Owner's Signature

April 2, 1996
Date

SUPPLEMENTAL INFORMATION FOR JOINT 401/404 APPLICATION

Project: *Appalachian State University (ASU)/Appalachian Convocation Center*

Section 404 Nationwide Permit Requested: *NWP #26*

Section 401 General Water Quality Certification Requested: *GC #2671*

Application Information:

Item 1. Owners Name:

Appalachian State University, State of North Carolina

Item 2. Owners Address:

Appalachian State University, Boone, North Carolina (see item 4)

Item 3. Owners Phone Number:

Appalachian State University, Main Phone: 704-262-2000 (see item 4)

Item 4. Owner Representative, Address, and Phone Number:

Dr. Clyde Robbins
Associate Vice Chancellor, Physical Operations
Appalachian State University
265 Dale Street
Boone, North Carolina 28608
Phone: 704-262-4961

Item 5. Location of work: (See maps and plans provided as Attachments 1 and 2)

Maps include: USGS "Boone, NC" quadrangle and site plans

County: Watauga County, North Carolina

Nearest Town or City: Town of Boone

Specific Location: Along Boone Creek and floodplain just below the existing ASU Lackey Baseball Field and above the intersection of existing Rivers Street and US 321 (Blowing Rock Road) at the ASU main entrance.

Item 6. Name of Closest Stream/River:

Stream: Boone Creek

Item 7. River Basin:

New River Basin. Boone Creek feeds into Winkler Creek which discharges into the South Fork of the New River.

Item 8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? [YES]

Stream Class: Class C - Trout, Special Waters, "+" NC DEM designation (information obtained from Mr. Ron Linville, Winston-Salem Regional DEM Office).

Watershed: Project is *not* located within a State designated water-supply watershed. WS-II and WS-IV water-supply watersheds are located south and southeast of the project area, respectively.

Item 9. Have any Section 404 permits been previously requested for use on this property? [YES] If yes, explain.

Work along the Boone Creek channel associated with Phase 1 of the ASU Boiler Plant Facility (*upstream of the Phase 2 Boiler Plant work and Convocation Center site*) was determined to require a US Army COE Nationwide 26 permit. The NWP 26 for Phase 1 was requested in June 1995. The channel restoration work associated with Phase 2 of the Boiler Plant project will also require a NWP 26. The permit for the Phase 2 work was requested on February 26, 1996.

It is not known if any Section 404 permits have been previously requested for use on the *specific Convocation Center project site* along Boone Creek, however.

Item 10. Estimated total number of acres of waters of the US, including wetlands, located on project site:

Approximately 0.31 acre of "waters of the US" located on the project site along Boone Creek. (*See item 11 for more detail and discussion.*)

The US Army COE has determined (Mr. Steve Chapin, Asheville Field Office) that *no wetlands* exist on the proposed project site (reference is made to COE letter dated September 8, 1995, Action ID. 199504607, Pre-Application, and a project coordination meeting at ASU on February 22, 1996.) Therefore, a wetlands delineation will not be applicable to this project.

Item 11. Number of acres of waters of the US, including wetlands, impacted by the proposed project:

Filled: *Approximately 0.31 acre
Drained: not applicable
Flooded: not applicable
Excavated: not applicable
Total Impacted: *Approximately 0.31 acre

**Note: A culvert system of 800 linear feet (+/-) is proposed for Boone Creek to accommodate the planned NCDOT widening of US 321 and facilitate development of the Convocation Center. However, only 450 feet of the stream is currently in an open channel condition. A typical bank-to-bank top channel width for the existing open channel section is approximately 30 feet or less. The width of the ordinary high water level along the stream is also 30 feet or less. Also, no wetlands are located in the project area.*

Using these parameters for calculation of area, the estimate of total impact to "waters of the US" along Boone Creek is approximately 0.31 acre. This is determined from the 450 linear ft of existing open channel stream and the 30 ft maximum width of the ordinary high water level (450' x 30' = 13,500 sq ft; 13,500 sq ft / 43,560 sq ft per acre = 0.31 acre). This methodology for determining total area of impact to waters of the US is based upon discussions with Mr. Steve Chapin (US Army COE) and confirmed by Mr. John Dorney (NC DEM, Raleigh Central Office) in a telephone conversation with Scott Bryant (Ogden) February 19, 1996. Mr. Dorney further noted that if the impacted area is equal to or less than one-third of an acre, a written approval from DEM is not required for the project.

Item 12. Description of Proposed Work: (See site plans attached)

The proposed work involves the development of a multi-purpose Convocation Center facility at Appalachian State University. The planned NCDOT widening of US 321, in conjunction with site placement of the Convocation Center facility, requires that a 450 ft section of Boone Creek open channel be placed into a culvert system.

Item 13. Purpose of Proposed Work:

The "Appalachian Convocation Center" will serve as a multi-purpose place of assembly for university convocations, concerts, public speakers, various sports tournaments, training camps, family entertainment shows, conventions, trade association events and exhibits. This facility will serve the Town of Boone and the region, in addition to the University.

Approximately 27% of the Convocation Center's floor area is dedicated to academic program space for the ASU Health Leisure and Exercise Science department. The academic area will include faculty offices, classrooms, special instructional spaces, and research labs.

Item 14. State reasons why the applicant believes this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts.

As noted above, the proposed activity does *not* involve any disturbance of wetlands. The project will involve the culverting of approximately 0.31 acre of "waters of the US" along Boone Creek. The impact to waters of the US will be minimal, however, because some of the stream is already in culvert.

In order to successfully widen US 321 and develop the Convocation Center site, the proposed fill and culverting is necessary. The fill will place the site at an elevation above the 100-year base flood level to protect the building and adjacent facilities.

Land use adjacent to the existing reach of Boone Creek open channel is typically urban and includes Blowing Rock Road (US 321), Boone commercial development, Rivers Street, some residential development, and University tennis courts. Therefore, the proposed fill and culverting of the site and stream will not significantly change the nature of the setting nor degrade existing uses.

With regards to adjacent projects, ASU has prepared design plans to remove the approximate 960 ft run of culvert immediately upstream from the Convocation Center and restore this area with a "natural mountain stream" concept. The Boone Creek culvert that will be removed begins at Hardin Street near the ASU boiler facility and exits just below ASU Lackey Baseball Field in the proposed Convocation Center site area. As part of the Boone Creek restoration, Lackey Field will also be relocated to another part of the ASU campus. All of this described upstream work is associated with the ASU Phase 2 Boiler Plant Project and includes the realignment of Rivers Street with US 321 immediately upstream of the Convocation Center site. The 404 application for the Phase 2 work was submitted to the Corps of Engineers on February 26, 1996.

In sum, the planned widening of US 321 and site placement of the Convocation Center will require the filling and culverting of approximately 0.31 acre or less of "waters of the US" along Boone Creek. With the constraints of these two projects, the proposed culverting is the only practical option for the stream.

Items 15 and 16. Required Contacts:

***U.S. Fish and Wildlife Service (USFWS)
Raleigh Field Office***

Contacted: Ms. Sonja Wilson via telephone call on February 6, 1996

Comments: U.S. Fish and Wildlife Service requested a copy of the Joint 401/404 application form. Upon receipt of a copy of the Joint form, they will reply. Ogden Environmental, on behalf of ASU, will forward a copy of this application to USFWS.

***National Marine Fisheries Service (NMFS)
Habitat Conservation Division***

Contacted: Ms. Arlene Bossie via telephone call on February 6, 1996

Comments: The phone call satisfies the contact requirements. The office will receive a copy of the Joint form from the COE and/or DEM (one of the 7 copies required).

***State Historic Preservation Office (SHPO)
N.C. Division of Archives and History***

Contacted: Ms. Renee Gladdhill-Erly via telephone call on February 6, 1996

Comments: One of the 7 copies goes to the SHPO for review. The phone call satisfies the contact requirement on the joint application form.

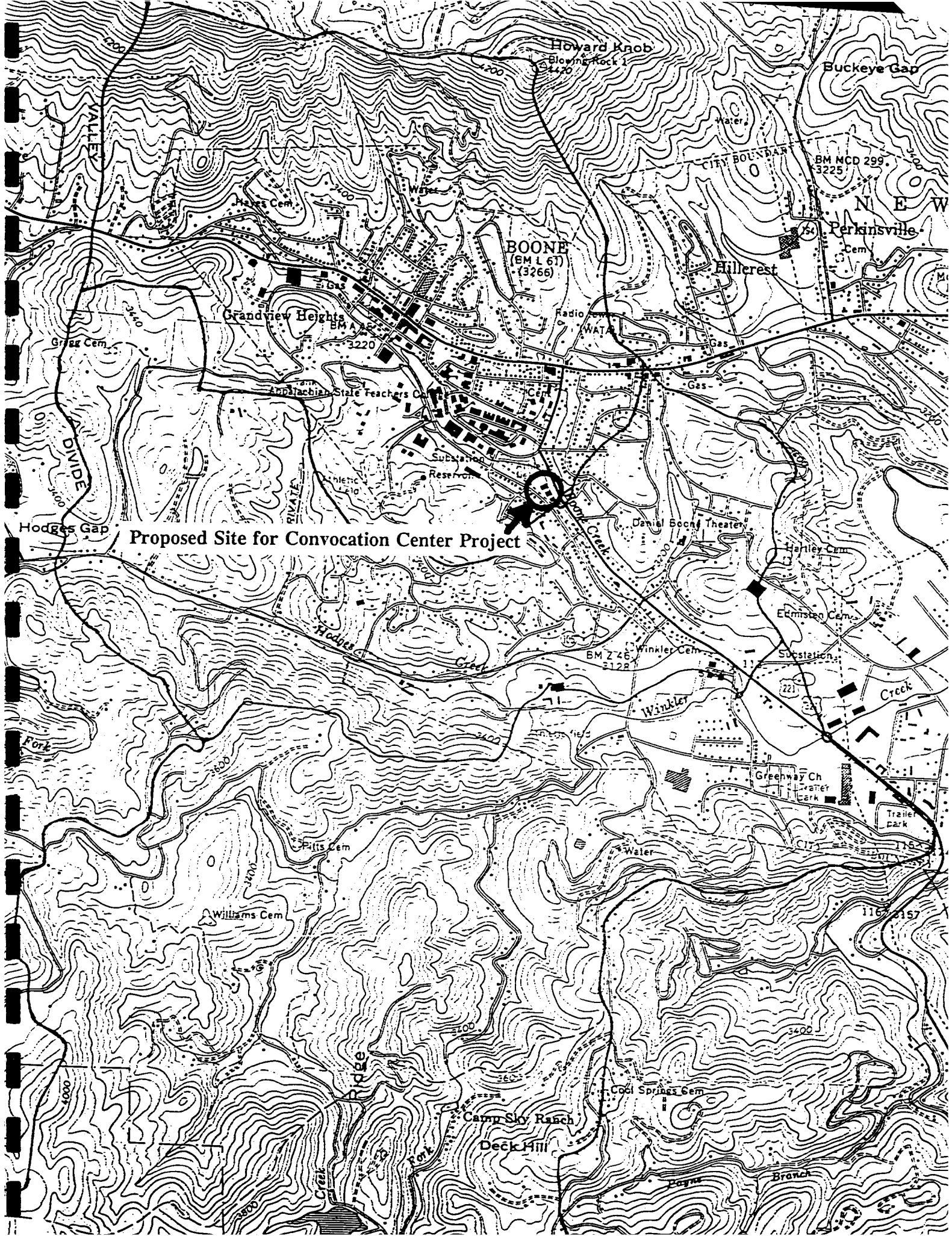
Item 17. Additional information for NC DEM:

- A. No wetlands are located on the site. See provided site plans/maps for detail on location of Boone Creek (see Attachments 1 and 2).
- B. Photos of the project site are provided herein (see Attachment 3).
- C. N/A
- D. The schematic drawings included herein (see Attachment 2) show the proposed grading and drainage plan for the project.
- E. Land use of the surrounding property is urban development consisting of university and Boone commercial area.
- F. The Convocation Center development will tie-in to the local POTW for sanitary sewage disposal (see Attachment 2 for utility plan).

ATTACHMENT 1

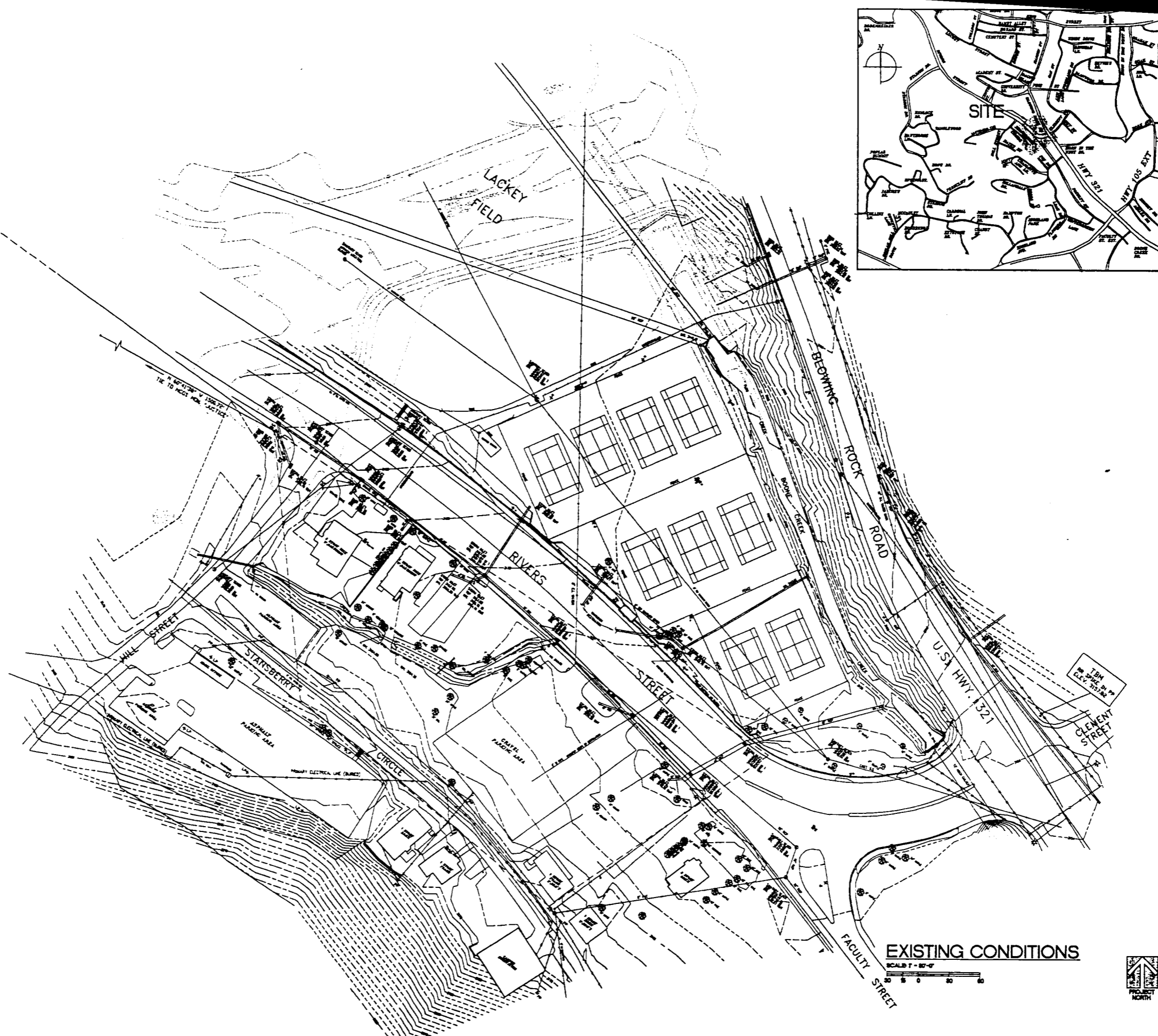
USGS "BOONE,NC" QUADRANGLE SHOWING SITE AREA

Proposed Site for Convocation Center Project



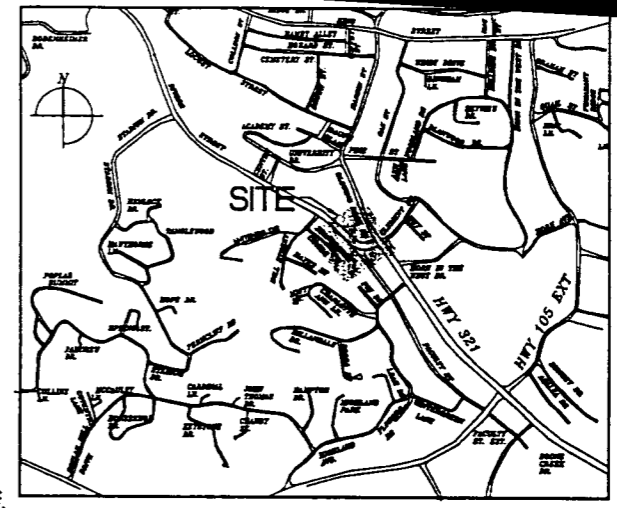
ATTACHMENT 2

SITE PLANS



LEGEND

- SEWER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- TELEPHONE LINE
- FIRE HYDRANT
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- WATER VALVE
- SIGN
- TREE
- RETAINING WALL



HAKAN CORLEY REDFOOT ZA
ARCHITECTS • ENGINEERS • PLANNERS
PO Box 11166, Charlotte, NC 28211

Appalachian STATE UNIVERSITY
Appalachian Convocation Center
Boone, N. C.

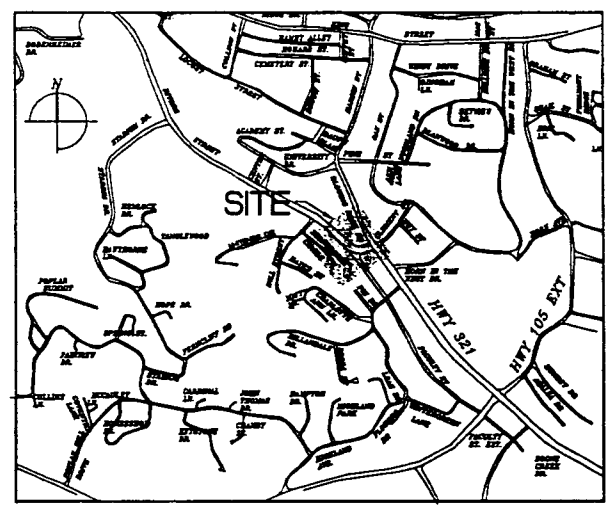
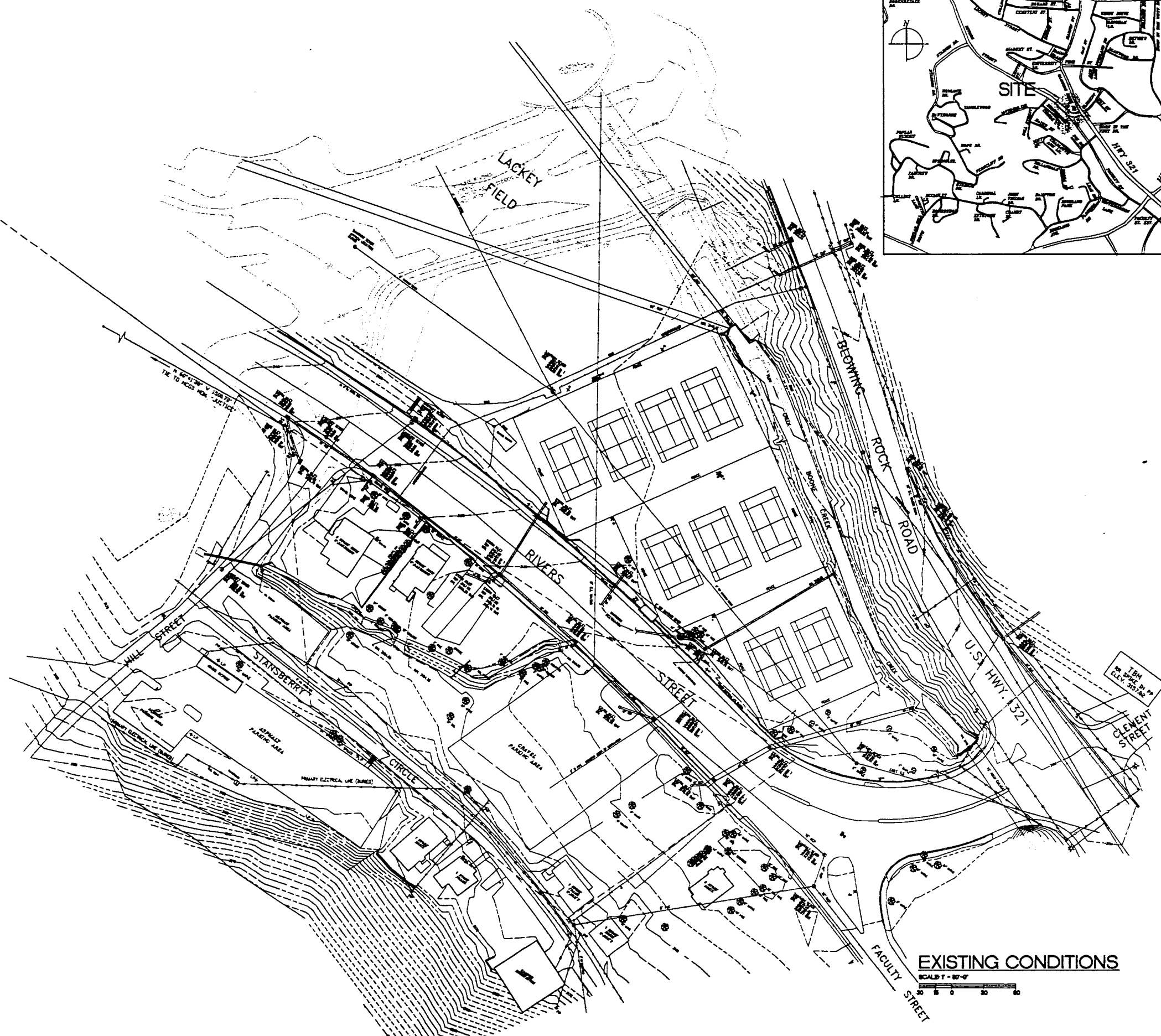
no. revisions

Sheet	C-1
of 3	total 1
Project no.	9084
Date	1/20/88

EXISTING CONDITIONS
SCALE 1" = 40'-0"
SCHEMATIC DESIGN SUBMITTAL

ATTACHMENT 2

SITE PLANS



LEGEND

- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- POWER LINE
- TELEPHONE LINE
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- WATER VALVE
- SIGN
- TREE
- RETAINING WALL

EXISTING CONDITIONS
SCALE 1" = 40'-0"

HAKAN CORLEY REDFOOT ZACK
ARCHITECTS - ENGINEERS - PLANNERS
PO BOX 3334, CHAPEL HILL, NORTH CAROLINA 27515-0334

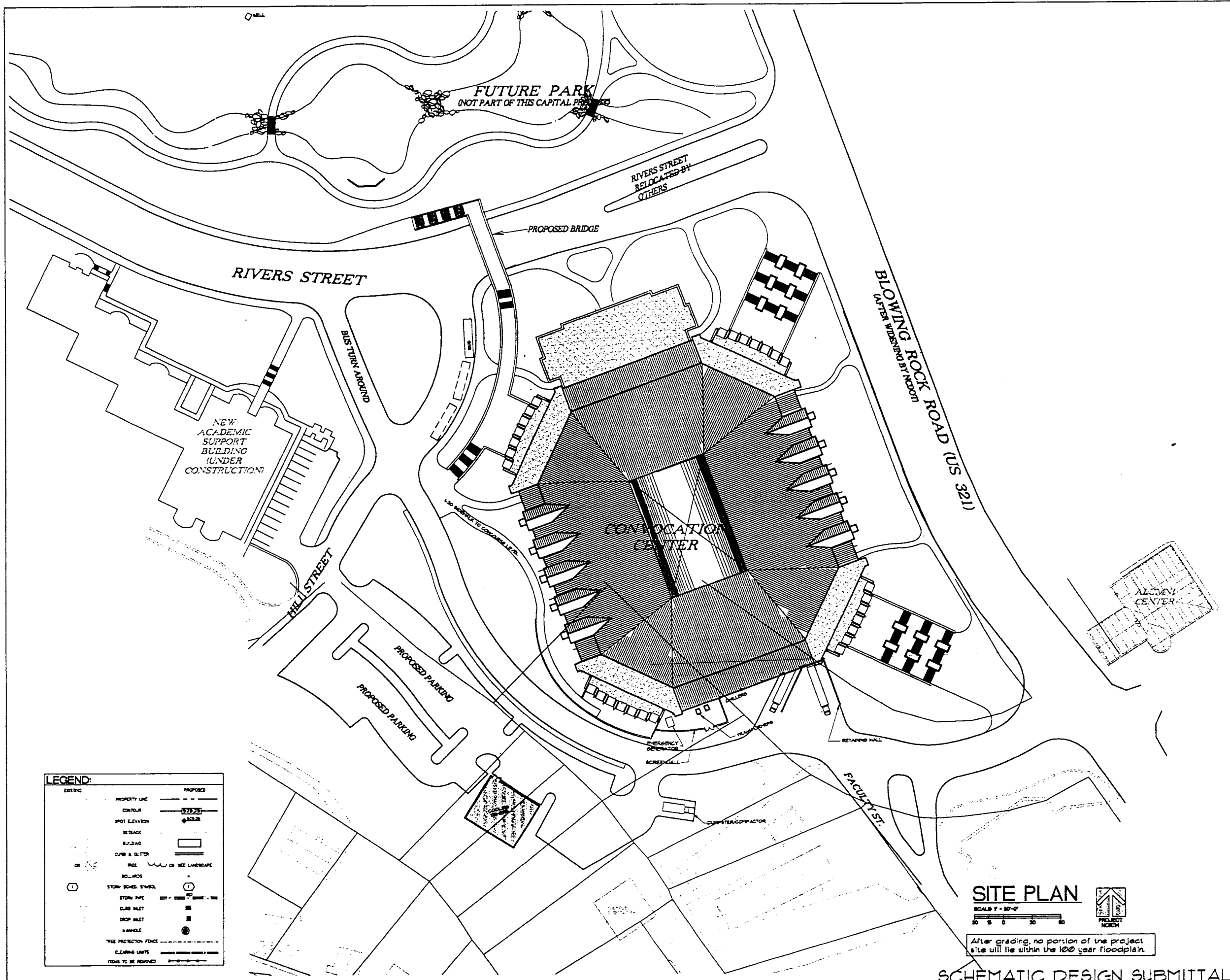
Appalachian
STATE UNIVERSITY
Appalachian Convocation Center
Boone, N. C.

no. revisions

DATE: 07/27/98 BY: [Signature]

Sheet: **C-1**
of 3 total 1
project no. 9484
date 10/28/98

SCHEMATIC DESIGN SUBMITTAL



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR (7.25)
SPOT ELEVATION	SPOT ELEVATION (113.2)
SEWER	SEWER
WATER	WATER
STORM	STORM
DRIVE & UTILITY	DRIVE & UTILITY
TREE	TREE OR TREE LANDSCAPE
BOLLARDS	BOLLARDS
STORM SCHED. SYMBOL	STORM SCHED. SYMBOL
STORM PIPE	STORM PIPE
CLUB INLET	CLUB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
ROADS TO BE REMOVED	ROADS TO BE REMOVED

SITE PLAN
 SCALE 1" = 30'-0"
 NORTH

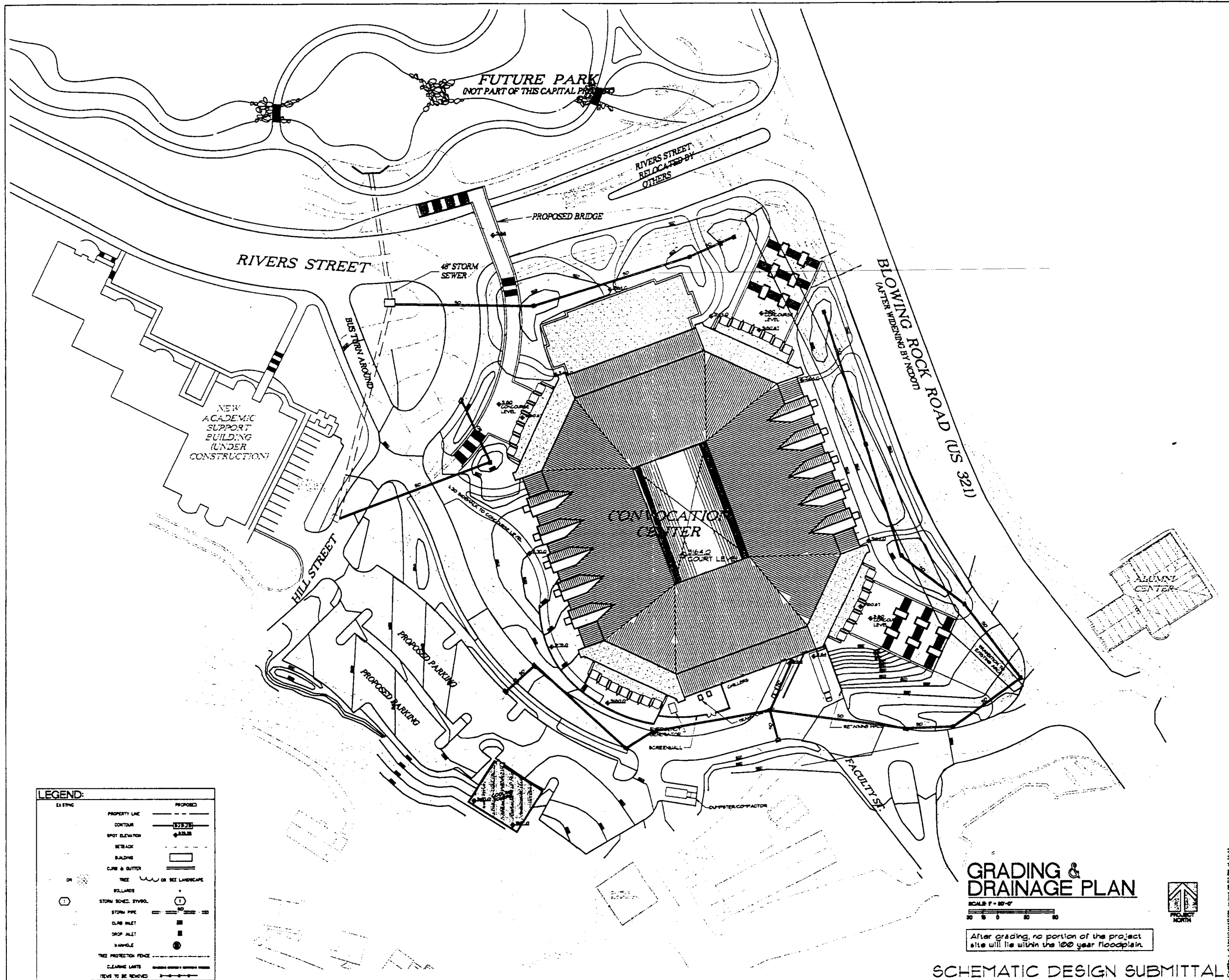
After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • 1001 E. 10TH ST. • BOONE, NC 28608
 PHONE 828-261-1111 • FAX 828-261-1112

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions	
Drawn	checked
MSJ	MSJ
SCHEMATIC SITE PLAN	
Sheet	
C-2	
of 3	total 3
Project no.	9434
Date	1/20/96



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE
BOLLARDS	BOLLARDS
STORM SCHED. SYMBOL	STORM SCHED. SYMBOL
STORM PIPE	STORM PIPE
CLUB INLET	CLUB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
TREES TO BE REMOVED	TREES TO BE REMOVED

GRADING & DRAINAGE PLAN
 SCALE 1" = 20'-0"
 0 20 40 60

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

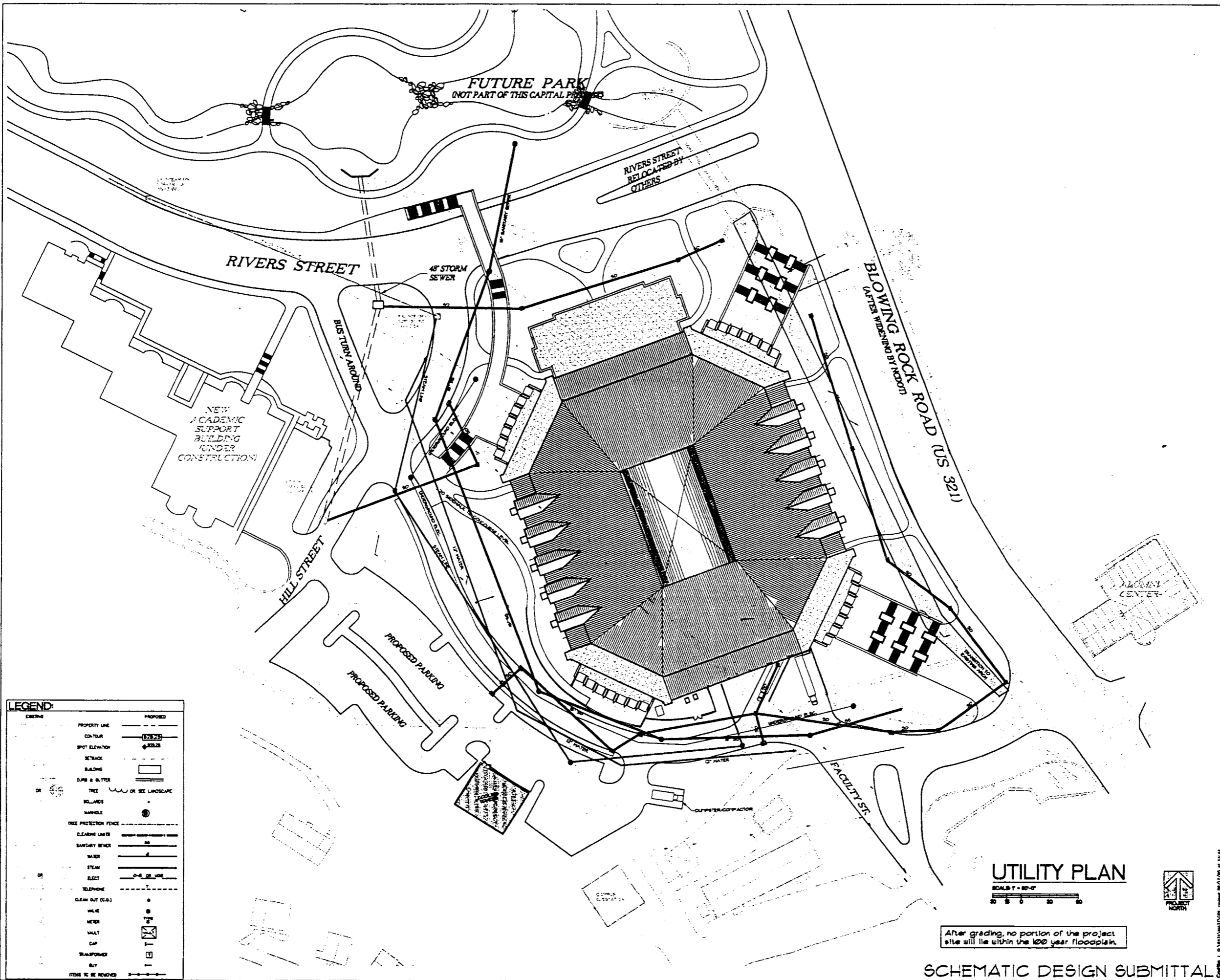
HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 1000 W. 10th Street, Suite 100, Boone, NC 28608
 Phone 828.262.1111, Fax 828.262.1112



Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

Drawn	Checked
MEB	MEB
SCHEMATIC GRADING PLAN	
Sheet	
C-3	
of 3	total 1
Project no. 948	
Date	1/20/04



HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS - ENGINEERS - PLANNERS
 1000 S.W. 10th Street, Suite 1000
 Gainesville, Florida 32609



Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

Drawn	Checked
MFB	MLB
SCHEMATIC UTILITY PLAN	
Sheet	
C-4	
of 3	total
project no. 984	
date 1/28/85	

UTILITY PLAN
 SCALE 1" = 20'-0"
 0 10 20 30 40

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

ATTACHMENT 3

PHOTOGRAPHS OF THE SITE

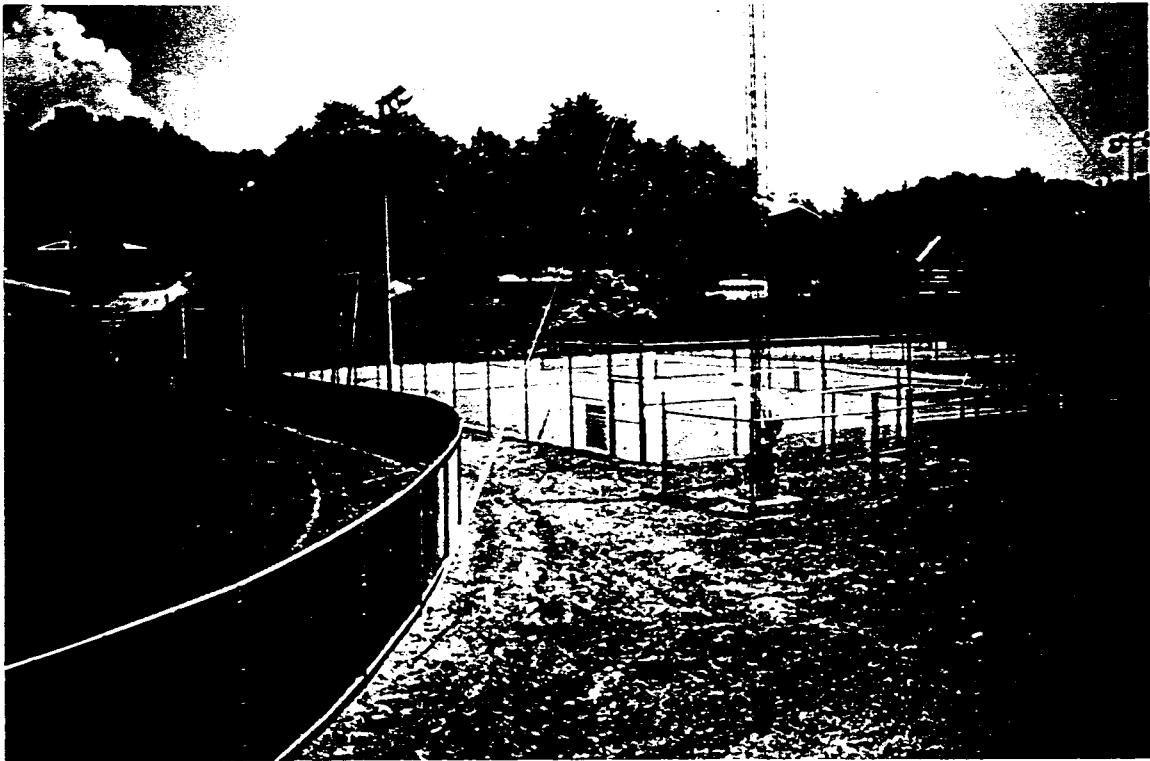


Photo 1. Proposed site area showing ASU Lackey Baseball Field and tennis courts.

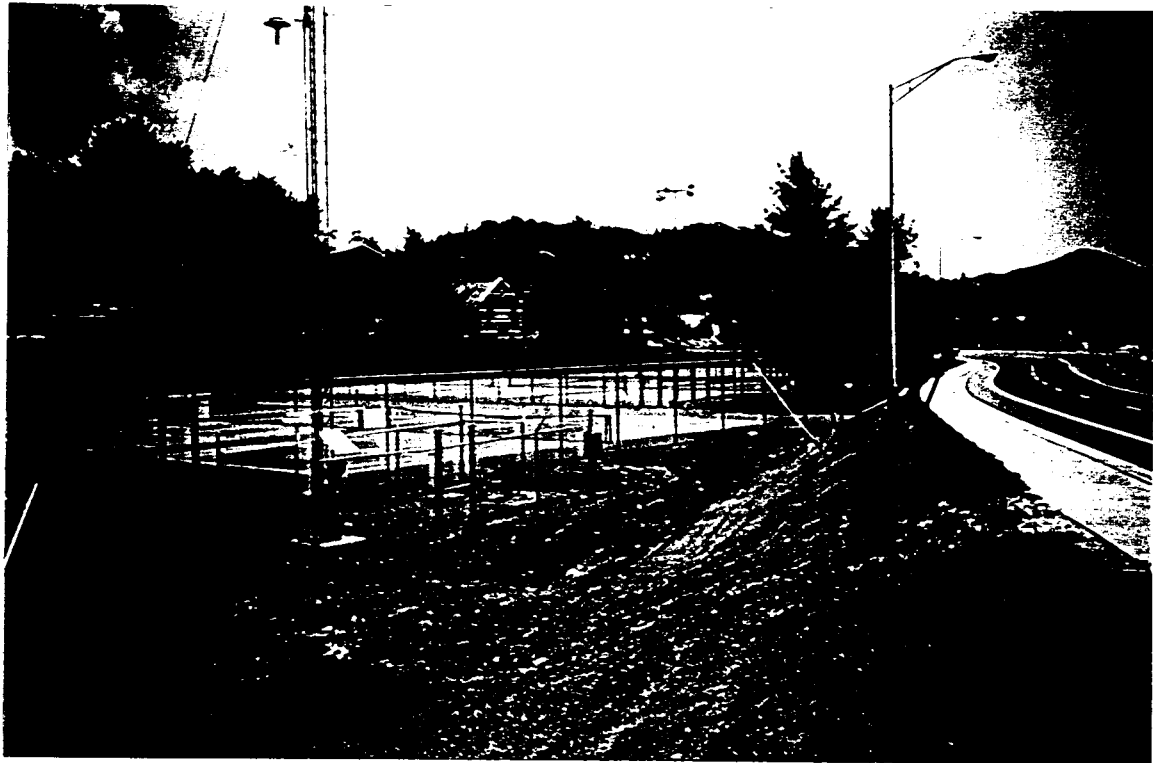


Photo 2. Proposed site area showing ASU tennis courts and Rivers Street.



Photo 3. Looking downstream along Boone Creek open channel in proposed site area.



Photo 4. Looking downstream at arch culvert under Rivers Street at US 321. Note ASU tennis courts adjacent to Boone Creek channel.



APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

JOINT FORM FOR

Nationwide permits that require notification to the Corps of Engineers
Nationwide permits that require application for Section 401 certification

WILMINGTON DISTRICT ENGINEER
CORPS OF ENGINEERS
DEPARTMENT OF THE ARMY
P.O. Box 1890
Wilmington, NC 28402-1890
ATTN: CESAW-CO-E
Telephone (919) 251-4511

DIVISION OF ENVIRONMENTAL MANAGEMENT
NC DEPARTMENT OF ENVIRONMENT, HEALTH,
AND NATURAL RESOURCES
ENVIRONMENTAL SCIENCES BRANCH
4401 Reedy Creek Road
Raleigh, N.C. 27607
ATTN: MR. JOHN DORNEY
Telephone (919) 733-1786

ONE (1) COPY OF THIS COMPLETED APPLICATION SHOULD BE SENT TO THE CORPS OF ENGINEERS. SEVEN (7) COPIES SHOULD BE SENT TO THE N.C. DIVISION OF ENVIRONMENTAL MANAGEMENT. PLEASE PRINT.

1. Owners Name: Appalachian State University, State of North Carolina

2. Owners Address: Appalachian State University, Boone, North Carolina 28608

3. Owners Phone Number (Home): N/A (Work): (704) 262-2000
(main number)

4. If Applicable: Agent's name or responsible corporate official, address, phone number:

Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations

Appalachian State University, 265 Dale Street, Boone, NC 28608

Office Phone Number: 704-262-4961

5. Location of work (MUST ATTACH MAP). County: Watauga

Nearest Town or City: Town of Boone

Specific Location (Include road numbers, landmarks, etc.): Along Boone Creek and floodplain

just below existing ASU Lackey Baseball Field and above the intersection of

existing Rivers Street and US 321 (Blowing Rock Rd) at the ASU main entrance.

6. Name of Closest Stream/River: Boone Creek

7. River Basin: New River Basin

8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? YES NO *

9. Have any Section 404 permits been previously requested for use on this property? YES NO

If yes, explain. NWP26 for Phase 1 Boiler Plant requested June 1995; NWP26 for Phase 2 Boiler Plant requested February 26, 1996.

10. Estimated total number of acres of waters of the U.S., including wetlands, located on project site: 0.31 acre
of waters of the U.S. (Note: No wetlands located on project site.)

11. Number of acres of waters of the U.S., including wetlands, impacted by the proposed project:

Filled: 0.31 acre

Drained: N/A

Flooded: N/A

Excavated: N/A

Total Impacted: 0.31 acre

* Classified as "trout" by NC DEM

12. Description of proposed work (Attach PLANS-8 1/2" X 11" drawings only): Fill and culvert installation for 450 ft. of existing Boone Creek open channel.

13. Purpose of proposed work: Accommodate NCDOT widening of US 321 and facilitate construction of the Appalachian Convocation Center multi-purpose facility.

14. State reasons why the applicant believes that this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts. No wetlands are impacted by the proposed project.
(See attached supplemental information for more discussion on all items)

15. You are required to contact the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) regarding the presence or any Federally listed or proposed for listing endangered or threatened species or critical habitat in the permit area that may be affected by the proposed project. Have you done so? YES [X] NO []


RESPONSES FROM THE USFWS AND/OR NMFS SHOULD BE FORWARDED TO CORPS.

16. You are required to contact the State Historic Preservation Officer (SHPO) regarding the presence of historic properties in the permit area which may be affected by the proposed project? Have you done so? YES [X] NO []

RESPONSE FROM THE SHPO SHOULD BE FORWARDED TO CORPS.

17. Additional information required by DEM:

- A. Wetland delineation map showing all wetlands, streams, and lakes on the property. No wetlands. Attached maps show water features.
- B. If available, representative photograph of wetlands to be impacted by project. See attachment 3
- C. If delineation was performed by a consultant, include all data sheets relevant to the placement of the delineation line. N/A
- D. If a stormwater management plan is required for this project, attach copy. See attachment 2
- E. What is land use of surrounding property? Urban development (ASU, Boone commercial area)
- F. If applicable, what is proposed method of sewage disposal? Tie-in to POTW.


Owner's Signature

April 2, 1996
Date

SUPPLEMENTAL INFORMATION FOR JOINT 401/404 APPLICATION

Project: *Appalachian State University (ASU)/Appalachian Convocation Center*

Section 404 Nationwide Permit Requested: *NWP #26*

Section 401 General Water Quality Certification Requested: *GC #2671*

Application Information:

Item 1. Owners Name:

Appalachian State University, State of North Carolina

Item 2. Owners Address:

Appalachian State University, Boone, North Carolina (see item 4)

Item 3. Owners Phone Number:

Appalachian State University, Main Phone: 704-262-2000 (see item 4)

Item 4. Owner Representative, Address, and Phone Number:

Dr. Clyde Robbins
Associate Vice Chancellor, Physical Operations
Appalachian State University
265 Dale Street
Boone, North Carolina 28608
Phone: 704-262-4961

Item 5. Location of work: (See maps and plans provided as Attachments 1 and 2)

Maps include: USGS "Boone, NC" quadrangle and site plans

County: Watauga County, North Carolina

Nearest Town or City: Town of Boone

Specific Location: Along Boone Creek and floodplain just below the existing ASU Lackey Baseball Field and above the intersection of existing Rivers Street and US 321 (Blowing Rock Road) at the ASU main entrance.

Item 6. Name of Closest Stream/River:

Stream: Boone Creek

Item 7. River Basin:

New River Basin. Boone Creek feeds into Winkler Creek which discharges into the South Fork of the New River.

Item 8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? [YES]

Stream Class: Class C - Trout, Special Waters, "+" NC DEM designation (information obtained from Mr. Ron Linville, Winston-Salem Regional DEM Office).

Watershed: Project is *not* located within a State designated water-supply watershed. WS-II and WS-IV water-supply watersheds are located south and southeast of the project area, respectively.

Item 9. Have any Section 404 permits been previously requested for use on this property? [YES] If yes, explain.

Work along the Boone Creek channel associated with Phase 1 of the ASU Boiler Plant Facility (*upstream of the Phase 2 Boiler Plant work and Convocation Center site*) was determined to require a US Army COE Nationwide 26 permit. The NWP 26 for Phase 1 was requested in June 1995. The channel restoration work associated with Phase 2 of the Boiler Plant project will also require a NWP 26. The permit for the Phase 2 work was requested on February 26, 1996.

It is not known if any Section 404 permits have been previously requested for use on the *specific Convocation Center project site* along Boone Creek, however.

Item 10. Estimated total number of acres of waters of the US, including wetlands, located on project site:

Approximately 0.31 acre of "waters of the US" located on the project site along Boone Creek. (*See item 11 for more detail and discussion.*)

The US Army COE has determined (Mr. Steve Chapin, Asheville Field Office) that *no wetlands* exist on the proposed project site (reference is made to COE letter dated September 8, 1995, Action ID. 199504607, Pre-Application, and a project coordination meeting at ASU on February 22, 1996.) Therefore, a wetlands delineation will not be applicable to this project.

Item 11. Number of acres of waters of the US, including wetlands, impacted by the proposed project:

Filled: *Approximately 0.31 acre
Drained: not applicable
Flooded: not applicable
Excavated: not applicable
Total Impacted: *Approximately 0.31 acre

**Note: A culvert system of 800 linear feet (+/-) is proposed for Boone Creek to accommodate the planned NCDOT widening of US 321 and facilitate development of the Convocation Center. However, only 450 feet of the stream is currently in an open channel condition. A typical bank-to-bank top channel width for the existing open channel section is approximately 30 feet or less. The width of the ordinary high water level along the stream is also 30 feet or less. Also, no wetlands are located in the project area.*

Using these parameters for calculation of area, the estimate of total impact to "waters of the US" along Boone Creek is approximately 0.31 acre. This is determined from the 450 linear ft of existing open channel stream and the 30 ft maximum width of the ordinary high water level (450' x 30' = 13,500 sq ft; 13,500 sq ft / 43,560 sq ft per acre = 0.31 acre). This methodology for determining total area of impact to waters of the US is based upon discussions with Mr. Steve Chapin (US Army COE) and confirmed by Mr. John Dorney (NC DEM, Raleigh Central Office) in a telephone conversation with Scott Bryant (Ogden) February 19, 1996. Mr. Dorney further noted that if the impacted area is equal to or less than one-third of an acre, a written approval from DEM is not required for the project.

Item 12. Description of Proposed Work: (See site plans attached)

The proposed work involves the development of a multi-purpose Convocation Center facility at Appalachian State University. The planned NCDOT widening of US 321, in conjunction with site placement of the Convocation Center facility, requires that a 450 ft section of Boone Creek open channel be placed into a culvert system.

Item 13. Purpose of Proposed Work:

The "Appalachian Convocation Center" will serve as a multi-purpose place of assembly for university convocations, concerts, public speakers, various sports tournaments, training camps, family entertainment shows, conventions, trade association events and exhibits. This facility will serve the Town of Boone and the region, in addition to the University.

Approximately 27% of the Convocation Center's floor area is dedicated to academic program space for the ASU Health Leisure and Exercise Science department. The academic area will include faculty offices, classrooms, special instructional spaces, and research labs.

Item 14. State reasons why the applicant believes this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts.

As noted above, the proposed activity does *not* involve any disturbance of wetlands. The project will involve the culverting of approximately 0.31 acre of "waters of the US" along Boone Creek. The impact to waters of the US will be minimal, however, because some of the stream is already in culvert.

In order to successfully widen US 321 and develop the Convocation Center site, the proposed fill and culverting is necessary. The fill will place the site at an elevation above the 100-year base flood level to protect the building and adjacent facilities.

Land use adjacent to the existing reach of Boone Creek open channel is typically urban and includes Blowing Rock Road (US 321), Boone commercial development, Rivers Street, some residential development, and University tennis courts. Therefore, the proposed fill and culverting of the site and stream will not significantly change the nature of the setting nor degrade existing uses.

With regards to adjacent projects, ASU has prepared design plans to remove the approximate 960 ft run of culvert immediately upstream from the Convocation Center and restore this area with a "natural mountain stream" concept. The Boone Creek culvert that will be removed begins at Hardin Street near the ASU boiler facility and exits just below ASU Lackey Baseball Field in the proposed Convocation Center site area. As part of the Boone Creek restoration, Lackey Field will also be relocated to another part of the ASU campus. All of this described upstream work is associated with the ASU Phase 2 Boiler Plant Project and includes the realignment of Rivers Street with US 321 immediately upstream of the Convocation Center site. The 404 application for the Phase 2 work was submitted to the Corps of Engineers on February 26, 1996.

In sum, the planned widening of US 321 and site placement of the Convocation Center will require the filling and culverting of approximately 0.31 acre or less of "waters of the US" along Boone Creek. With the constraints of these two projects, the proposed culverting is the only practical option for the stream.

Items 15 and 16. Required Contacts:

***U.S. Fish and Wildlife Service (USFWS)
Raleigh Field Office***

Contacted: Ms. Sonja Wilson via telephone call on February 6, 1996

Comments: U.S. Fish and Wildlife Service requested a copy of the Joint 401/404 application form. Upon receipt of a copy of the Joint form, they will reply. Ogden Environmental, on behalf of ASU, will forward a copy of this application to USFWS.

***National Marine Fisheries Service (NMFS)
Habitat Conservation Division***

Contacted: Ms. Arlene Bossie via telephone call on February 6, 1996

Comments: The phone call satisfies the contact requirements. The office will receive a copy of the Joint form from the COE and/or DEM (one of the 7 copies required).

***State Historic Preservation Office (SHPO)
N.C. Division of Archives and History***

Contacted: Ms. Renee Gladdhill-Erly via telephone call on February 6, 1996

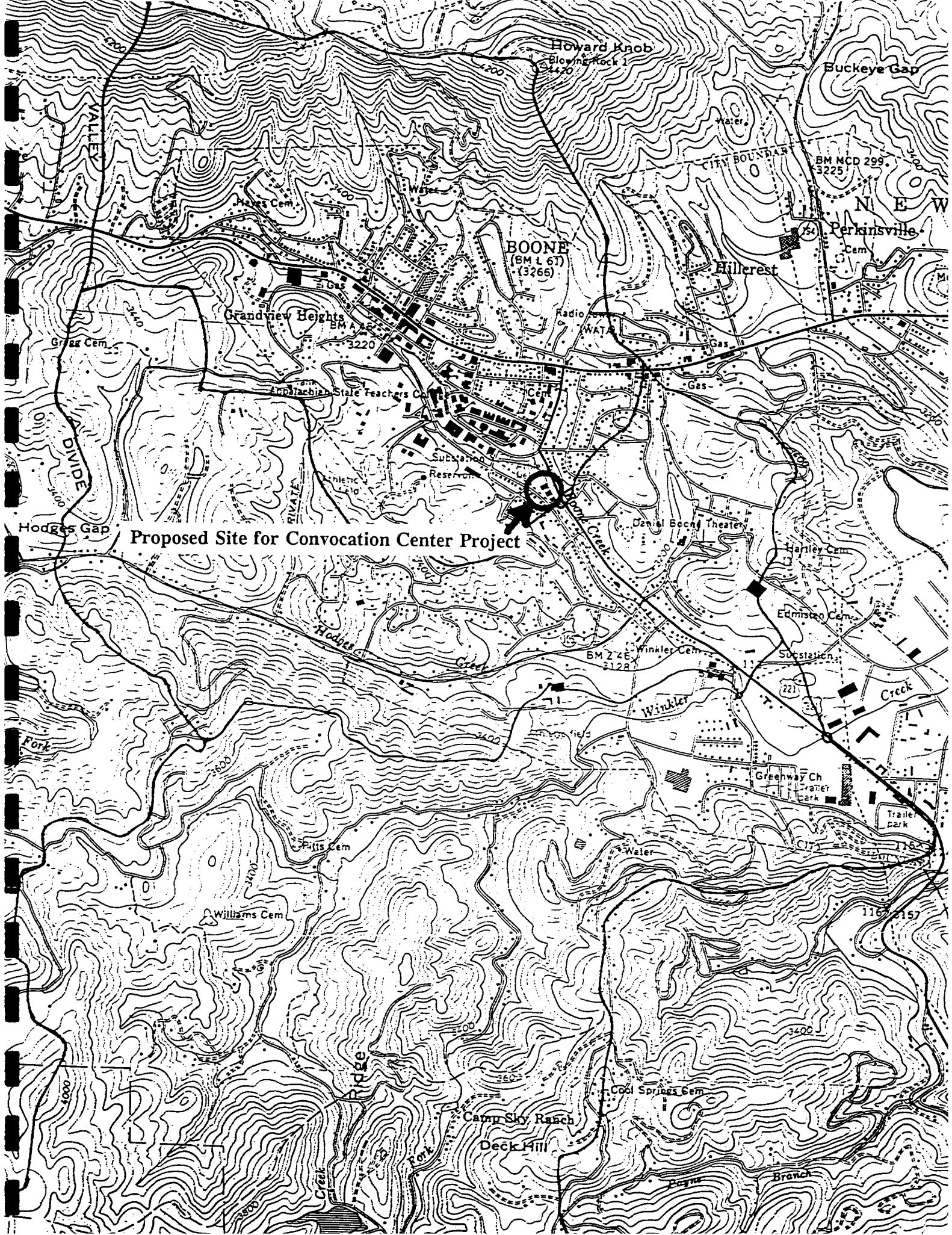
Comments: One of the 7 copies goes to the SHPO for review. The phone call satisfies the contact requirement on the joint application form.

Item 17. Additional information for NC DEM:

- A. No wetlands are located on the site. See provided site plans/maps for detail on location of Boone Creek (see Attachments 1 and 2).
- B. Photos of the project site are provided herein (see Attachment 3).
- C. N/A
- D. The schematic drawings included herein (see Attachment 2) show the proposed grading and drainage plan for the project.
- E. Land use of the surrounding property is urban development consisting of university and Boone commercial area.
- F. The Convocation Center development will tie-in to the local POTW for sanitary sewage disposal (see Attachment 2 for utility plan).

ATTACHMENT 1

USGS "BOONE,NC" QUADRANGLE SHOWING SITE AREA

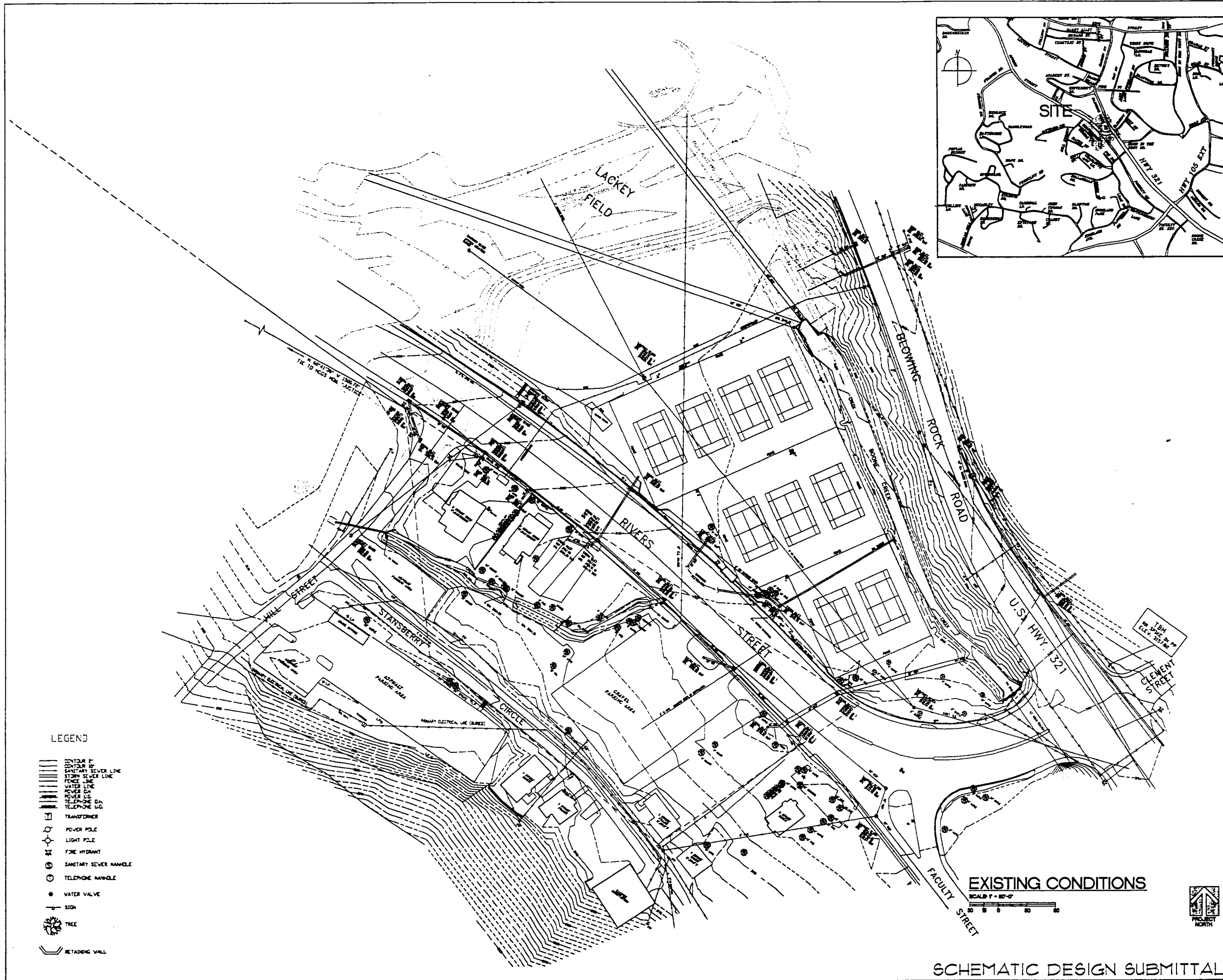


Proposed Site for Convocation Center Project



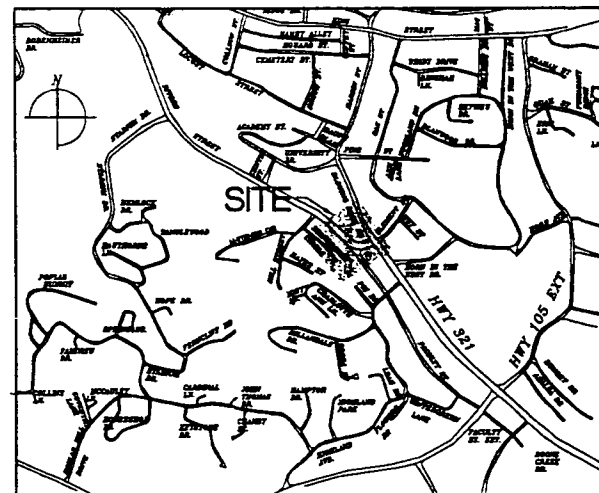
ATTACHMENT 2

SITE PLANS



LEGEND

- 20' DIA. CONCRETE WALL
- 12' DIA. CONCRETE WALL
- 6' DIA. CONCRETE WALL
- 3' DIA. CONCRETE WALL
- 18" DIA. CONCRETE WALL
- 12" DIA. CONCRETE WALL
- 6" DIA. CONCRETE WALL
- 3" DIA. CONCRETE WALL
- 18" DIA. CONCRETE WALL
- 12" DIA. CONCRETE WALL
- 6" DIA. CONCRETE WALL
- 3" DIA. CONCRETE WALL
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- WATER VALVE
- SIGN
- TREE
- RETAINING WALL



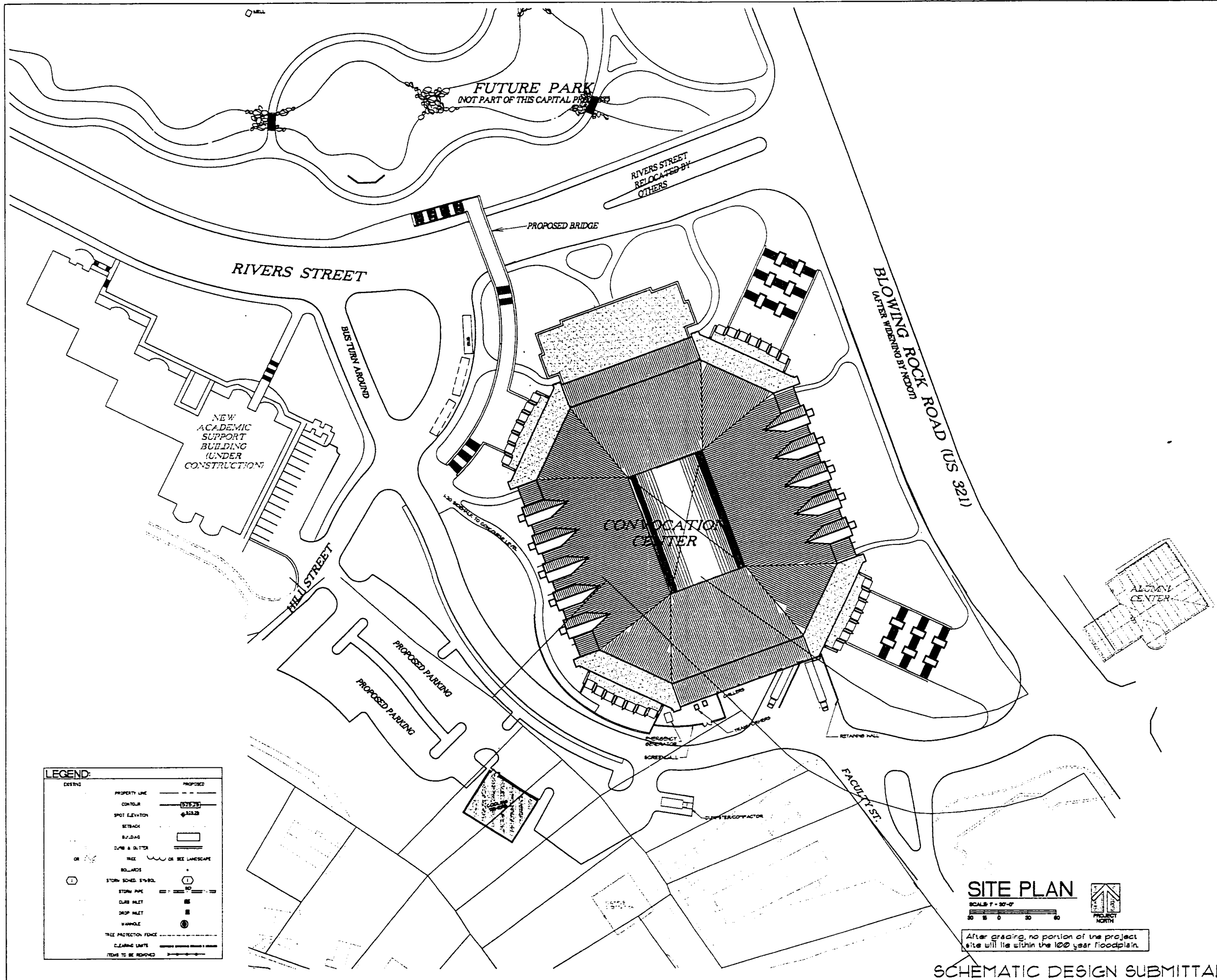
HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS - ENGINEERS - PLANNERS
 2000 31st, Chapel Hill, North Carolina 27514-1010

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

Drawn	Checked
MEB	MEB
EXISTING CONDITIONS	
Sheet	
C-1	
of 3	total 1
Project No.	948
Date	1/20/86

EXISTING CONDITIONS
 SCALE 1" = 80'-0"
 SCHEMATIC DESIGN SUBMITTAL



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE
BOLLARDS	BOLLARDS
STONE SCHED. SYMBOL	STONE SCHED. SYMBOL
STONE PIPE	STONE PIPE
CURB INLET	CURB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

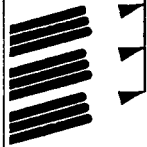
SITE PLAN

SCALE: 1" = 30'-0"



After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

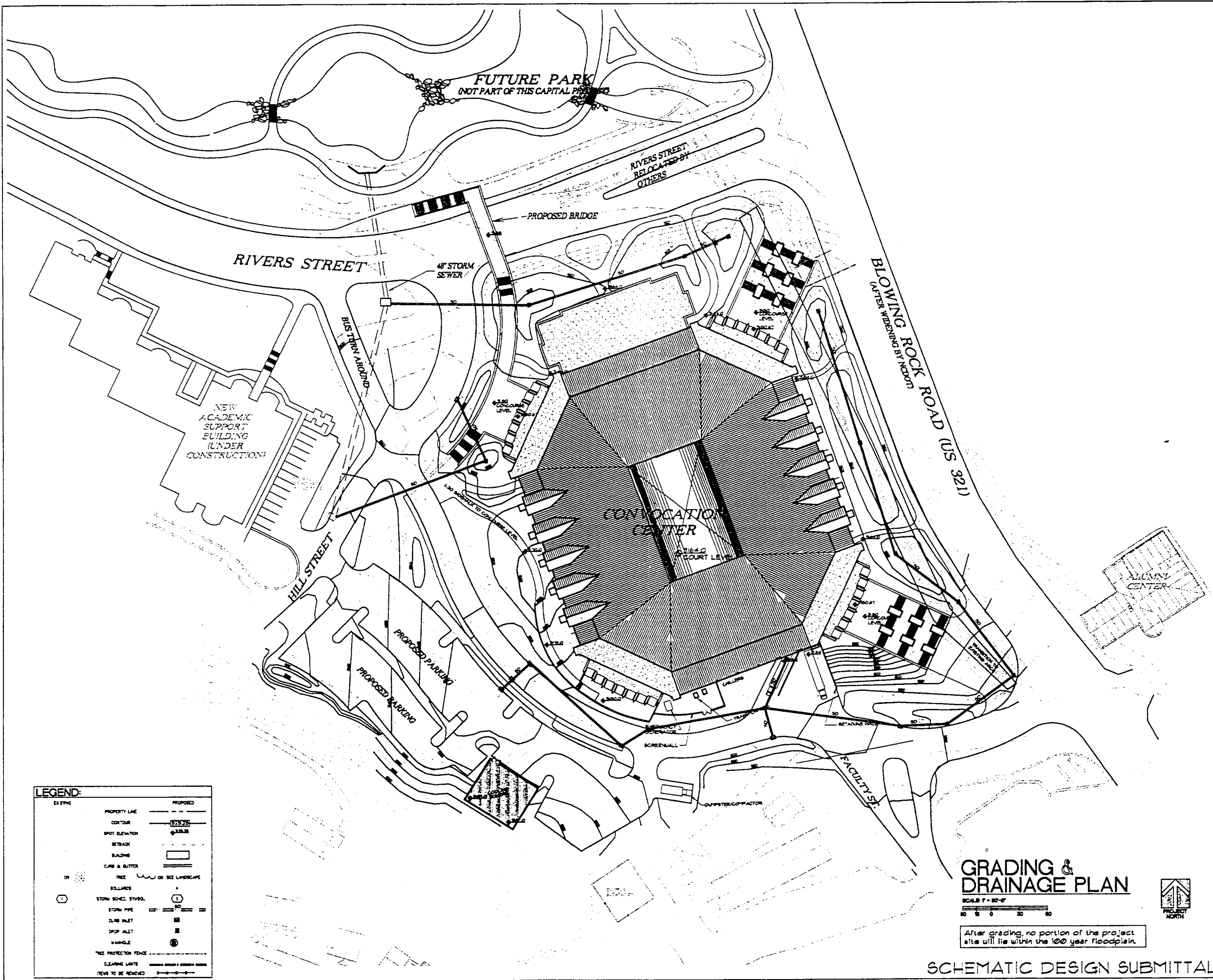


HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 7000 33rd, Chapel Hill, North Carolina 27514-5026

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

drawn	checked
MSB	MSB
SCHEMATIC SITE PLAN	
sheet	
C-2	
of 3	total 1
project no.	804
date	1/30/96

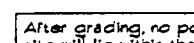


LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE
BOLLARDS	BOLLARDS
STORM SCHED. STYRD.	STORM SCHED. STYRD.
STORM PIPE	STORM PIPE
CLUB INLET	CLUB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

GRADING & DRAINAGE PLAN

SCALE 1" = 30'-0"



After grading, no portion of the project site will lie within the 100 year floodplain.



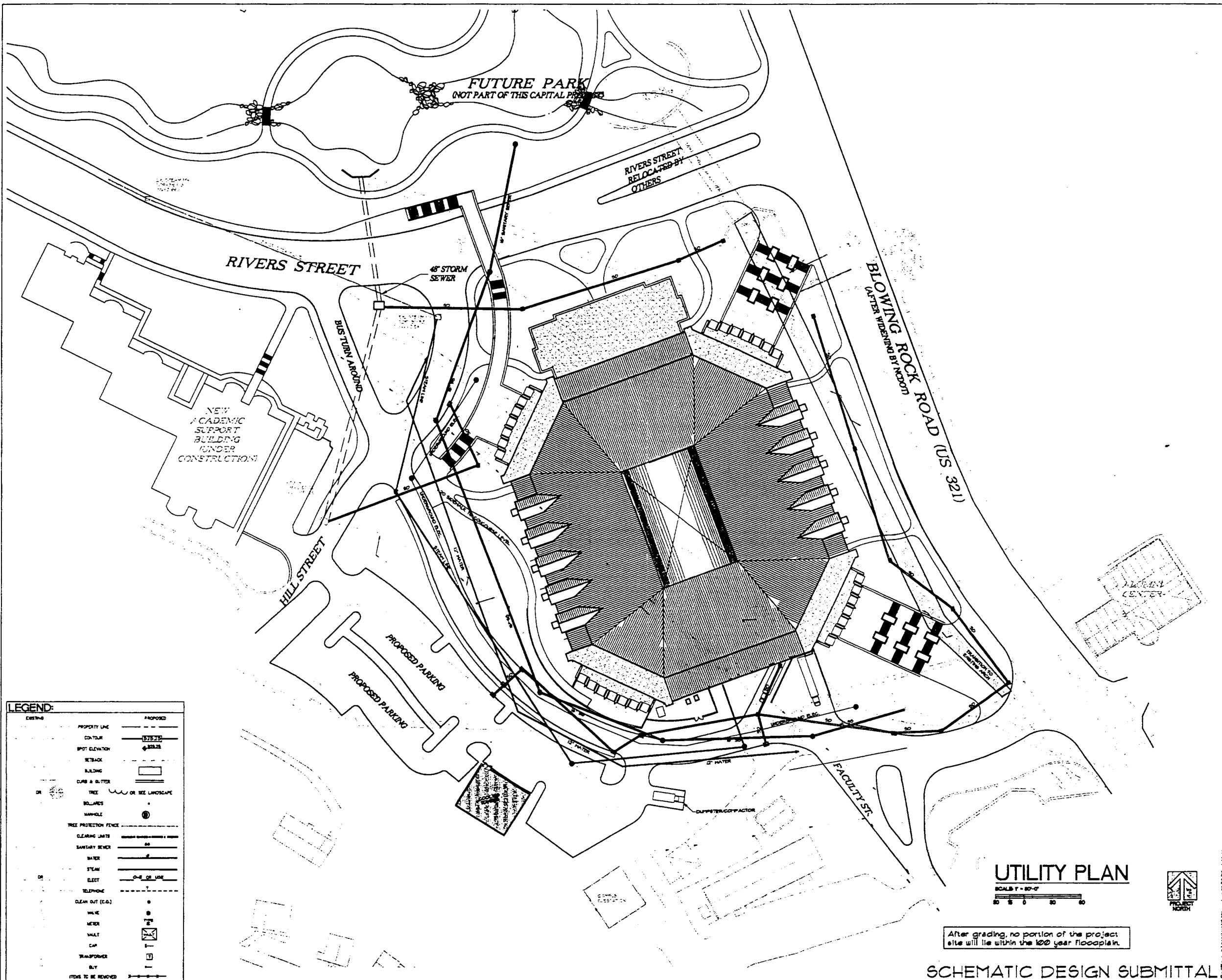
SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 1000 S. 10th St., Suite 100, Raleigh, NC 27603
 919.833.1000

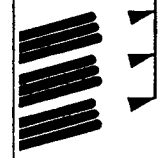
Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

Drawn	Checked
MEB	MEB
SCHEMATIC GRADING PLAN	
Sheet	
C-3	
of 3	total 1
Project no.	904
Date	1/20/04



HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 1000 1/2 W. Campbell Hill, Boone, NC 28601



Appalachian
 STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

Sheet
 1/23 Checked
 1/27
SCHEMATIC
UTILITY
PLAN

Sheet
C-4
 of 3 total
 project no. 986
 date 1/28/86

UTILITY PLAN
 SCALE 1" = 30'-0"

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

ATTACHMENT 3

PHOTOGRAPHS OF THE SITE



Photo 1. Proposed site area showing ASU Lackey Baseball Field and tennis courts.

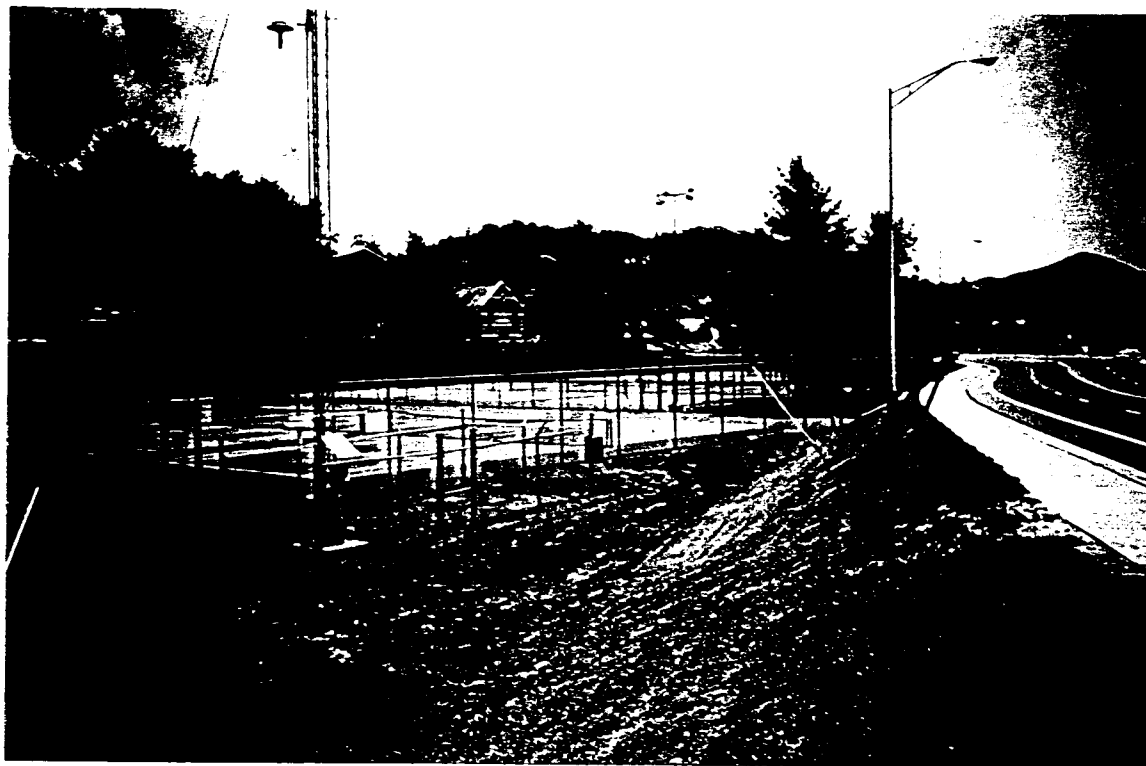


Photo 2. Proposed site area showing ASU tennis courts and Rivers Street.



Photo 3. Looking downstream along Boone Creek open channel in proposed site area.



Photo 4. Looking downstream at arch culvert under Rivers Street at US 321. Note ASU tennis courts adjacent to Boone Creek channel.



APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide
Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide Permit
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Greensboro, North Carolina 27407

March 29, 1996

JOINT FORM FOR

Nationwide permits that require notification to the Corps of Engineers
Nationwide permits that require application for Section 401 certification

WILMINGTON DISTRICT ENGINEER
CORPS OF ENGINEERS
DEPARTMENT OF THE ARMY
P.O. Box 1890
Wilmington, NC 28402-1890
ATTN: CESAW-CO-E
Telephone (919) 251-4511

DIVISION OF ENVIRONMENTAL MANAGEMENT
NC DEPARTMENT OF ENVIRONMENT, HEALTH,
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ENVIRONMENTAL SCIENCES BRANCH
4401 Reedy Creek Road
Raleigh, N.C. 27607
ATTN: MR. JOHN DORNEY
Telephone (919) 733-1786

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PLEASE PRINT.

1. Owners Name: Appalachian State University, State of North Carolina

2. Owners Address: Apalachian State University, Boone, North Carolina 28608

3. Owners Phone Number (Home): N/A (Work): (704) 262-2000
(main number)

4. If Applicable: Agent's name or responsible corporate official, address, phone number:

Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations

Appalachian State University, 265 Dale Street, Boone, NC 28608

Office Phone Number: 704-262-4961

5. Location of work (MUST ATTACH MAP). County: Watauga

Nearest Town or City: Town of Boone

Specific Location (Include road numbers, landmarks, etc.): Along Boone Creek and floodplain

just below existing ASU Lackey Baseball Field and above the intersection of

existing Rivers Street and US 321 (Blowing Rock Rd) at the ASU main entrance.

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7. River Basin: New River Basin

8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? YES NO

9. Have any Section 404 permits been previously requested for use on this property? YES NO

If yes, explain. NWP26 for Phase 1 Boiler Plant requested June 1995; NWP26 for Phase 2 Boiler

Plant requested February 26, 1996.

10. Estimated total number of acres of waters of the U.S., including wetlands, located on project site: 0.31 acre

of waters of the U.S. (Note: No wetlands located on project site.)

11. Number of acres of waters of the U.S., including wetlands, impacted by the proposed project:

Filled: 0.31 acre

Drained: N/A

Flooded: N/A

Excavated: N/A

Total Impacted: 0.31 acre

* Classified as "trout" by NC DEM

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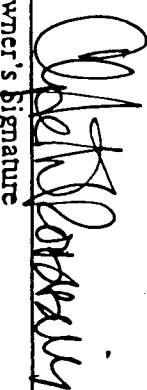
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(See attached supplemental information for more discussion on all items)

15. You are required to contact the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) regarding the presence or any Federally listed or proposed for listing endangered or threatened species or critical habitat in the permit area that may be affected by the proposed project. Have you done so? YES [X] NO []
RESPONSES FROM THE USFWS AND/OR NMFS SHOULD BE FORWARDED TO CORPS.

16. You are required to contact the State Historic Preservation Officer (SHPO) regarding the presence of historic properties in the permit area which may be affected by the proposed project? Have you done so? YES [X] NO []
RESPONSE FROM THE SHPO SHOULD BE FORWARDED TO CORPS.

17. Additional information required by DENI:

- A. Wetland delineation map showing all wetlands, streams, and lakes on the property. No wetlands. Attached maps show water features
- B. If available, representative photograph of wetlands to be impacted by project. See attachment 3
- C. If delineation was performed by a consultant, include all data sheets relevant to the placement of the delineation line. N/A
- D. If a stormwater management plan is required for this project, attach copy. See attachment 2
- E. What is land use of surrounding property? Urban development (ASU, Boone commercial area)
- F. If applicable, what is proposed method of sewage disposal? Tie-in to POTW.


Owner's Signature April 2, 1996
Date

SUPPLEMENTAL INFORMATION FOR JOINT 401/404 APPLICATION

Project: *Appalachian State University (ASU)/Appalachian Convocation Center*

Section 404 Nationwide Permit Requested: *NWP #26*

Section 401 General Water Quality Certification Requested: *GC #2671*

Application Information:

Item 1. Owners Name:

Appalachian State University, State of North Carolina

Item 2. Owners Address:

Appalachian State University, Boone, North Carolina (see item 4)

Item 3. Owners Phone Number:

Appalachian State University, Main Phone: 704-262-2000 (see item 4)

Item 4. Owner Representative, Address, and Phone Number:

Dr. Clyde Robbins
Associate Vice Chancellor, Physical Operations
Appalachian State University
265 Dale Street
Boone, North Carolina 28608
Phone: 704-262-4961

Item 5. Location of work: (See maps and plans provided as Attachments 1 and 2)

Maps include: USGS "Boone, NC" quadrangle and site plans

County: Watauga County, North Carolina

Nearest Town or City: Town of Boone

Specific Location: Along Boone Creek and floodplain just below the existing ASU Lackey Baseball Field and above the intersection of existing Rivers Street and US 321 (Blowing Rock Road) at the ASU main entrance.

Item 6. Name of Closest Stream/River:

Stream: Boone Creek

Item 7. River Basin:

New River Basin. Boone Creek feeds into Winkler Creek which discharges into the South Fork of the New River.

Item 8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? [YES]

Stream Class: Class C - Trout, Special Waters, "+" NC DEM designation (information obtained from Mr. Ron Linville, Winston-Salem Regional DEM Office).

Watershed: Project is *not* located within a State designated water-supply watershed. WS-II and WS-IV water-supply watersheds are located south and southeast of the project area, respectively.

Item 9. Have any Section 404 permits been previously requested for use on this property? [YES] If yes, explain.

Work along the Boone Creek channel associated with Phase 1 of the ASU Boiler Plant Facility (*upstream of the Phase 2 Boiler Plant work and Convocation Center site*) was determined to require a US Army COE Nationwide 26 permit. The NWP 26 for Phase 1 was requested in June 1995. The channel restoration work associated with Phase 2 of the Boiler Plant project will also require a NWP 26. The permit for the Phase 2 work was requested on February 26, 1996.

It is not known if any Section 404 permits have been previously requested for use on the *specific Convocation Center project site* along Boone Creek, however.

Item 10. Estimated total number of acres of waters of the US, including wetlands, located on project site:

Approximately 0.31 acre of "waters of the US" located on the project site along Boone Creek. (*See item 11 for more detail and discussion.*)

The US Army COE has determined (Mr. Steve Chapin, Asheville Field Office) that *no wetlands* exist on the proposed project site (reference is made to COE letter dated September 8, 1995, Action ID. 199504607, Pre-Application, and a project coordination meeting at ASU on February 22, 1996.) Therefore, a wetlands delineation will not be applicable to this project.

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Filled: *Approximately 0.31 acre
Drained: not applicable
Flooded: not applicable
Excavated: not applicable
Total Impacted: *Approximately 0.31 acre

**Note: A culvert system of 800 linear feet (+/-) is proposed for Boone Creek to accommodate the planned NCDOT widening of US 321 and facilitate development of the Convocation Center. However, only 450 feet of the stream is currently in an open channel condition. A typical bank-to-bank top channel width for the existing open channel section is approximately 30 feet or less. The width of the ordinary high water level along the stream is also 30 feet or less. Also, no wetlands are located in the project area.*

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Raleigh Field Office***

Contacted: Ms. Sonja Wilson via telephone call on February 6, 1996

Comments: U.S. Fish and Wildlife Service requested a copy of the Joint 401/404 application form. Upon receipt of a copy of the Joint form, they will reply. Ogden Environmental, on behalf of ASU, will forward a copy of this application to USFWS.

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Habitat Conservation Division***

Contacted: Ms. Arlene Bossie via telephone call on February 6, 1996

Comments: The phone call satisfies the contact requirements. The office will receive a copy of the Joint form from the COE and/or DEM (one of the 7 copies required).

***State Historic Preservation Office (SHPO)
N.C. Division of Archives and History***

Contacted: Ms. Renee Gladdhill-Erly via telephone call on February 6, 1996

Comments: One of the 7 copies goes to the SHPO for review. The phone call satisfies the contact requirement on the joint application form.

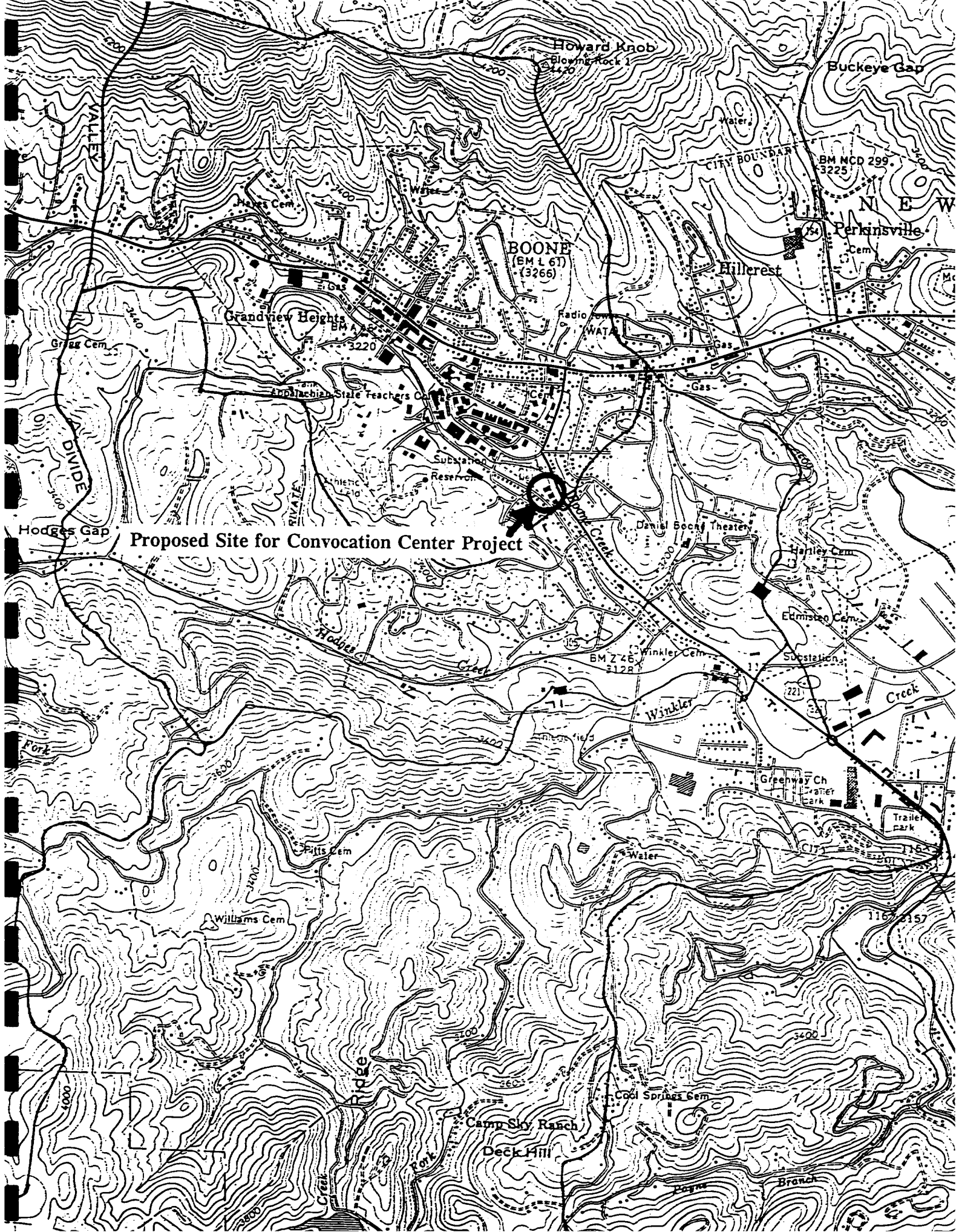
Item 17. Additional information for NC DEM:

- A. No wetlands are located on the site. See provided site plans/maps for detail on location of Boone Creek (see Attachments 1 and 2).
- B. Photos of the project site are provided herein (see Attachment 3).
- C. N/A
- D. The schematic drawings included herein (see Attachment 2) show the proposed grading and drainage plan for the project.
- E. Land use of the surrounding property is urban development consisting of university and Boone commercial area.
- F. The Convocation Center development will tie-in to the local POTW for sanitary sewage disposal (see Attachment 2 for utility plan).

ATTACHMENT 1

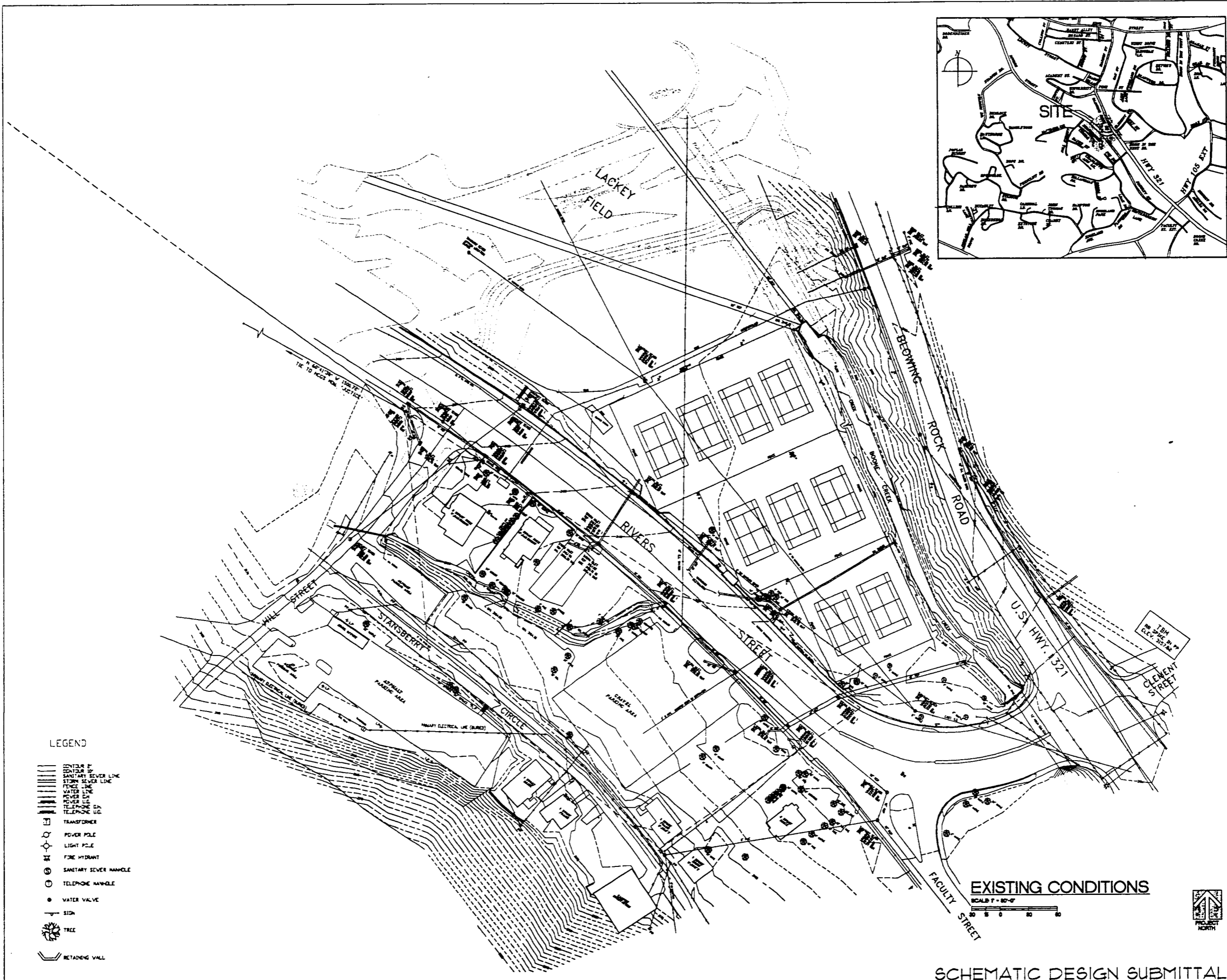
USGS "BOONE,NC" QUADRANGLE SHOWING SITE AREA

Proposed Site for Convocation Center Project



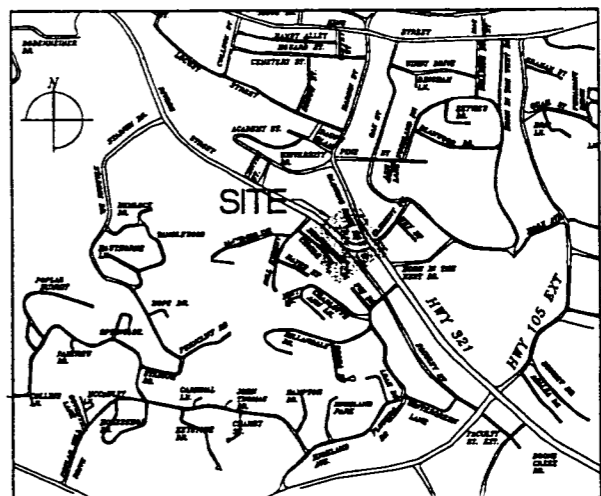
ATTACHMENT 2

SITE PLANS



LEGEND

- EXISTING BUILDING
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- FIRE HYDRANT
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- WATER VALVE
- SIGN
- TREE
- RETAINING WALL



HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS - ENGINEERS - PLANNERS
 1000 15th St., Boone, NC 28604
 Phone 336-865-1111, 800-441-2222

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

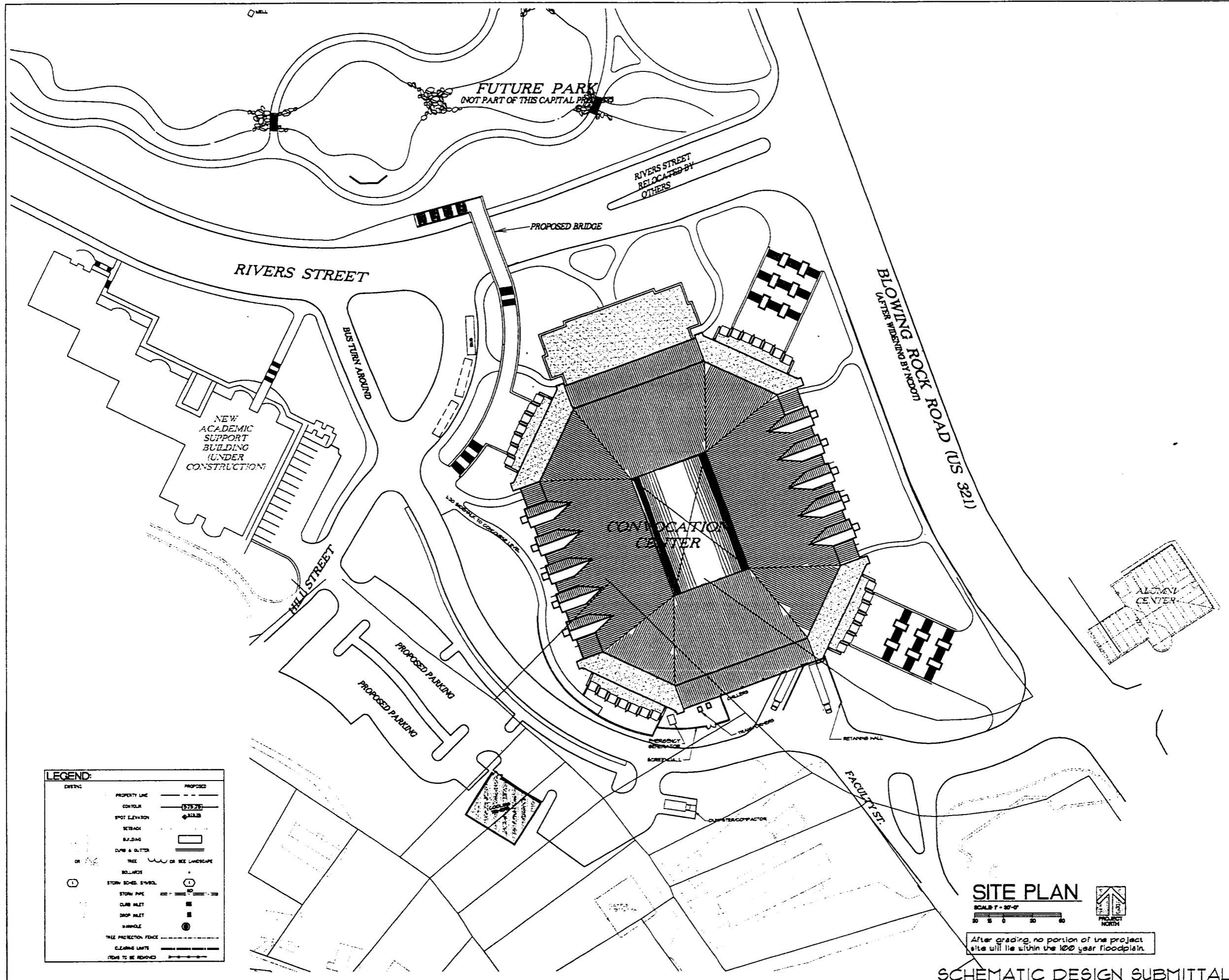
DATE: 09/27/95 BY: [Signature]

Drawn	Checked
MEB	MEB
EXISTING CONDITIONS	
Sheet	
C-1	
of 3	total 1
Project no. 904	
Date 1/20/96	

EXISTING CONDITIONS

SCALE: 1" = 40'-0"

SCHEMATIC DESIGN SUBMITTAL



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTROL	CONTROL
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE
OR TREE LANDSCAPE	OR TREE LANDSCAPE
BOLLARDS	BOLLARDS
STORM SCHED. SYMBOL	STORM SCHED. SYMBOL
STORM PIPE	STORM PIPE
CLUB INLET	CLUB INLET
SHOP INLET	SHOP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

SITE PLAN
 SCALE 1" = 30'-0"
 PROJECT NORTH

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • PLANNERS
 1000 S. 10th Street, Suite 100
 Raleigh, NC 27601

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

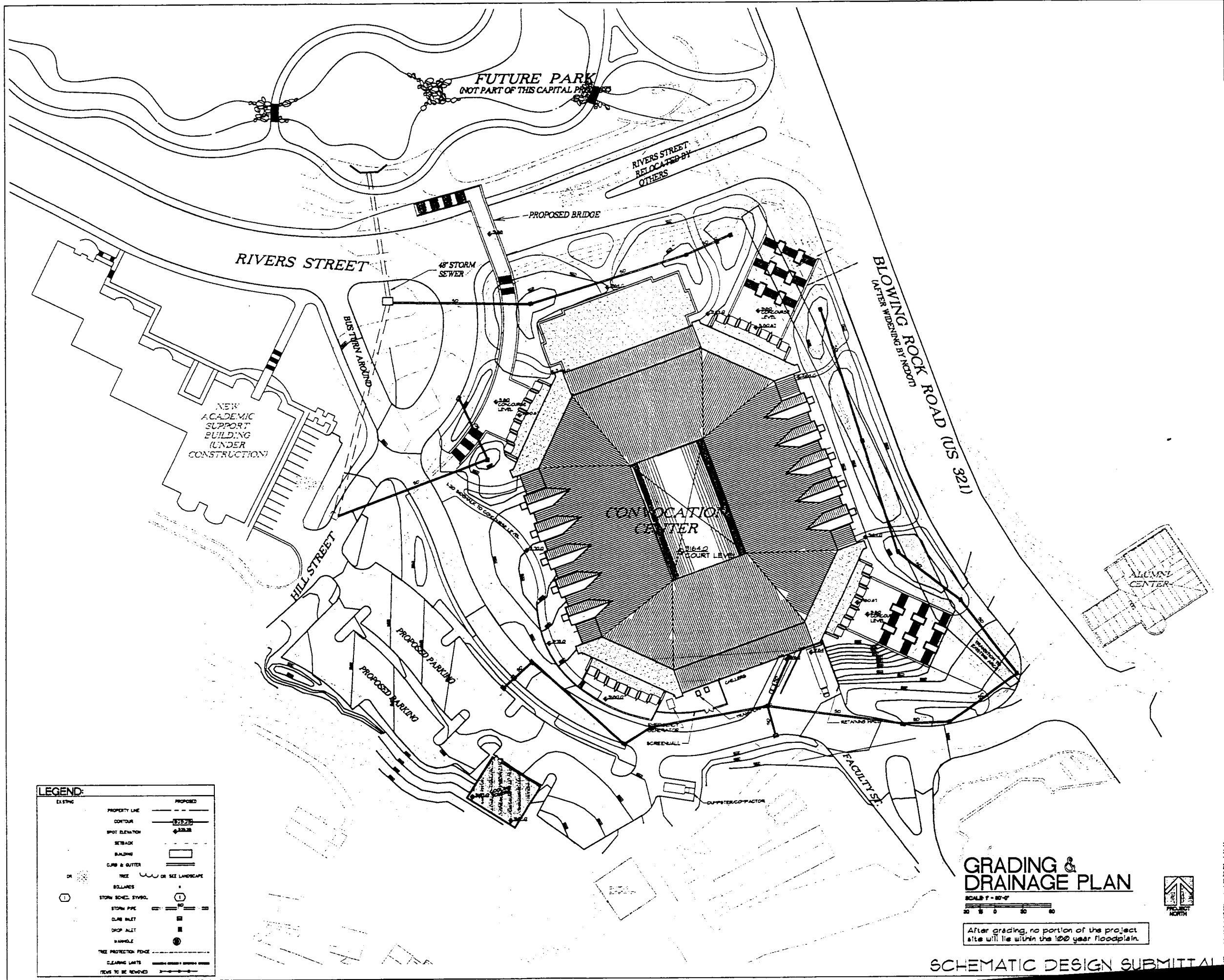
no. revisions

drawn checked
 MSB MSB

SCHEMATIC SITE PLAN

C-2

of 3 total 1
 project no. 904
 date 1/30/96



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOLLARDS	BOLLARDS
STORM SCHED. SYMBOL	STORM SCHED. SYMBOL
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MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
TREES TO BE REMOVED	TREES TO BE REMOVED

GRADING & DRAINAGE PLAN
 SCALE 1" = 30'-0"
 0 10 20 30 40 50 60

After grading, no portion of the project site will lie within the 100 year floodplain.

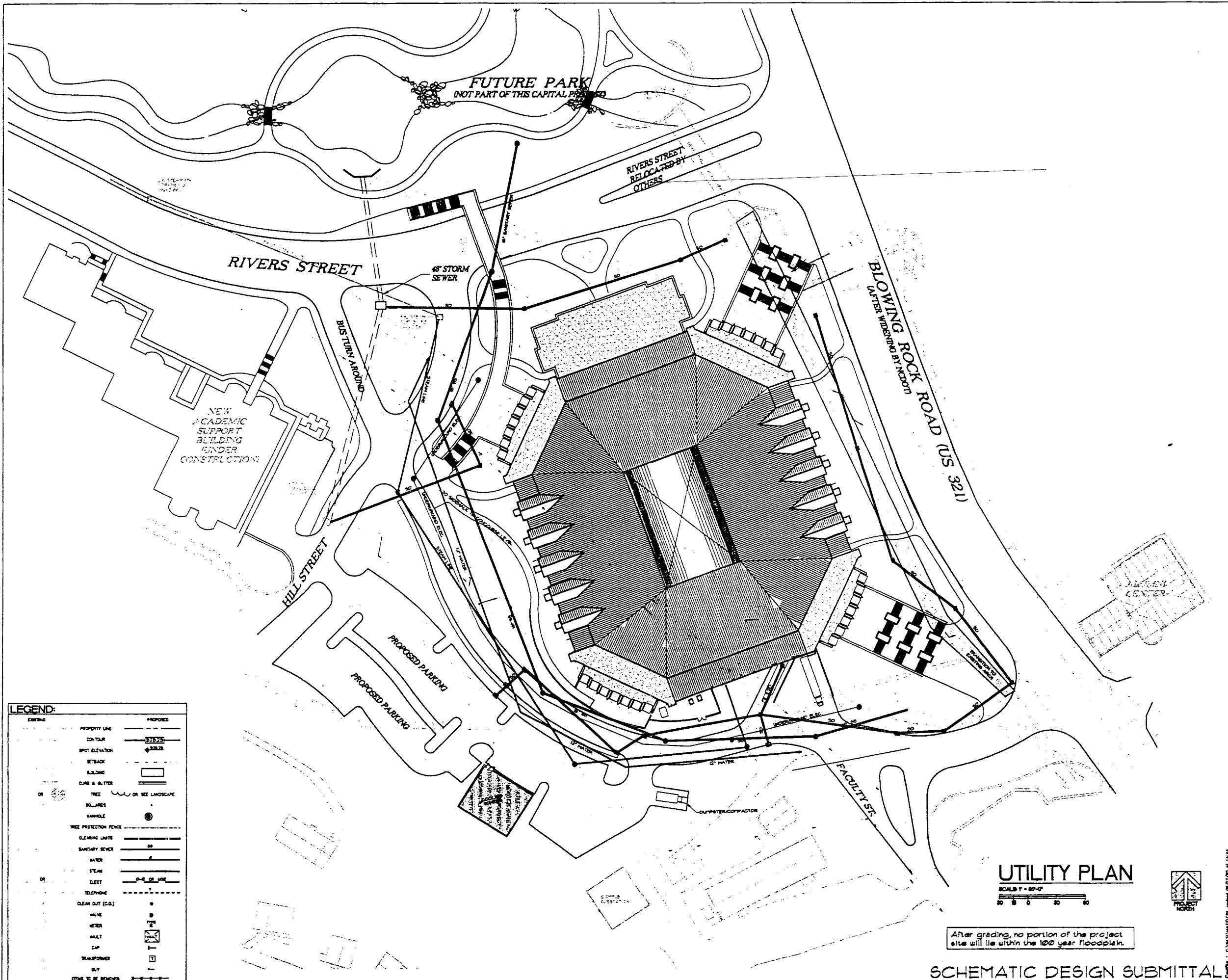


SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 1000 W. 10th St., Suite 1000, Boone, NC 28604
 Phone: 828.264.0400 Fax: 828.264.0401

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions	
DATE	CHECKED
11/14/14	ME
SCHEMATIC GRADING PLAN	
SHEET	
C-3	
of 5	total 1
PROJECT NO.	904



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOLLARDS	BOLLARDS
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
SANITARY SEWER	SANITARY SEWER
WATER	WATER
STEAM	STEAM
ELECT	ELECT
TELEPHONE	TELEPHONE
CLEAN OUT (C.O.)	CLEAN OUT (C.O.)
WALK	WALK
METER	METER
VALVE	VALVE
CAP	CAP
TRANSFORMER	TRANSFORMER
SLY	SLY
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

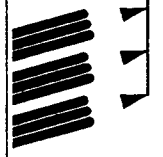
UTILITY PLAN
 SCALE: 1" = 20'-0"
 0 10 20 30 40



After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS - ENGINEERS - PLANNERS
 1000 W. 10th St., Suite 1000
 BOONE, NC 28604



Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

NO. 1718-013

Drawn	Checked
MJB	KEM
SCHEMATIC UTILITY PLAN	
Sheet	
C-4	
of 3	total
Project no. 904	
Date	10/04

ATTACHMENT 3

PHOTOGRAPHS OF THE SITE



Photo 1. Proposed site area showing ASU Lackey Baseball Field and tennis courts.

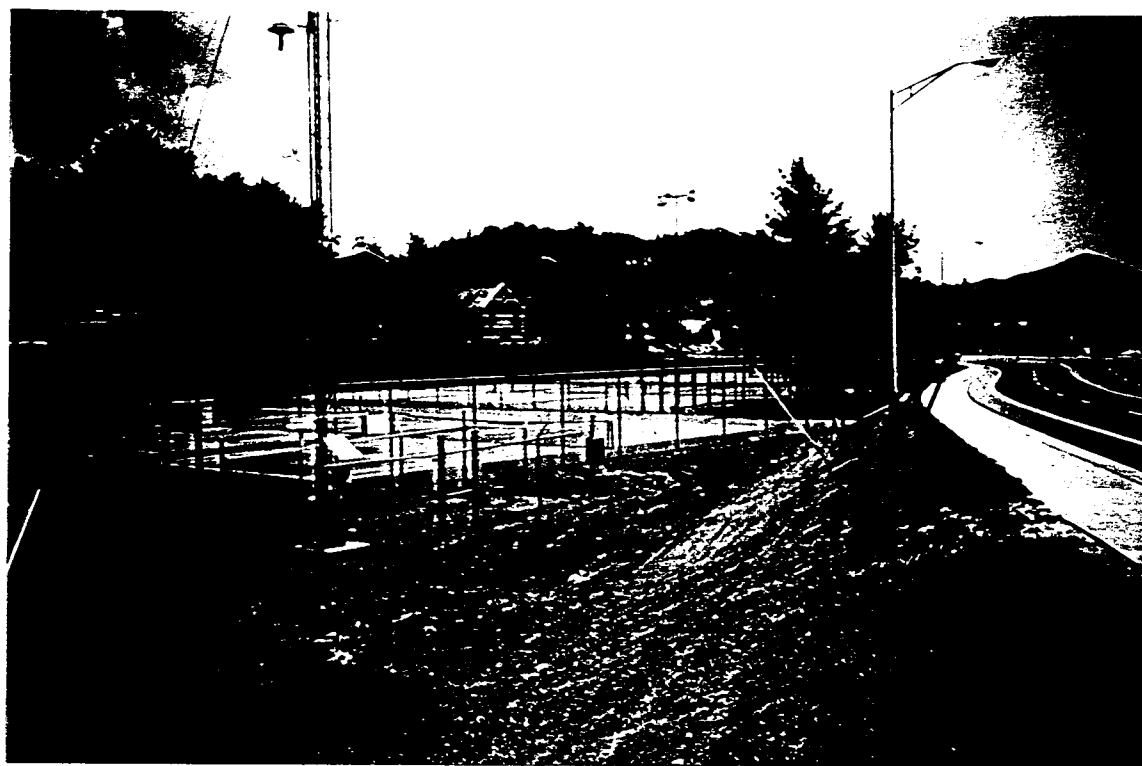


Photo 2. Proposed site area showing ASU tennis courts and Rivers Street.



Photo 3. Looking downstream along Boone Creek open channel in proposed site area.



Photo 4. Looking downstream at arch culvert under Rivers Street at US 321. Note ASU tennis courts adjacent to Boone Creek channel.



APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide
Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

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One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

DEM ID: _____

ACTION ID: _____

Nationwide Permit Requested (Provide Nationwide Permit #): 26

JOINT FORM FOR

Nationwide permits that require notification to the Corps of Engineers
Nationwide permits that require application for Section 401 certification

WILMINGTON DISTRICT ENGINEER
CORPS OF ENGINEERS
DEPARTMENT OF THE ARMY
P.O. Box 1890
Wilmington, NC 28402-1890
ATTN: CESAW-CO-E
Telephone (919) 251-4511

DIVISION OF ENVIRONMENTAL MANAGEMENT
NC DEPARTMENT OF ENVIRONMENT, HEALTH,
AND NATURAL RESOURCES
ENVIRONMENTAL SCIENCES BRANCH
4401 Reedy Creek Road
Raleigh, N.C. 27607
ATTN: MR. JOHN DORNEY
Telephone (919) 733-1786

ONE (1) COPY OF THIS COMPLETED APPLICATION SHOULD BE SENT TO THE CORPS OF ENGINEERS.
SEVEN (7) COPIES SHOULD BE SENT TO THE N.C. DIVISION OF ENVIRONMENTAL MANAGEMENT.
PLEASE PRINT.

1. Owners Name: Appalachian State University, State of North Carolina

2. Owners Address: Appalachian State University, Boone, North Carolina 28608

3. Owners Phone Number (Home): N/A (Work): (704) 262-2000
(main number)

4. If Applicable: Agent's name or responsible corporate official, address, phone number:

Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations

Appalachian State University, 265 Dale Street, Boone, NC 28608

Office Phone Number: 704-262-4961

5. Location of work (MUST ATTACH MAP). County: Watauga

Nearest Town or City: Town of Boone

Specific Location (Include road numbers, landmarks, etc.): Along Boone Creek and floodplain

just below existing ASU Lackey Baseball Field and above the intersection of
existing Rivers Street and US 321 (Blowing Rock Rd) at the ASU main entrance.

6. Name of Closest Stream/River: Boone Creek

7. River Basin: New River Basin

8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? YES NO

9. Have any Section 404 permits been previously requested for use on this property? YES NO

If yes, explain. NWP26 for Phase 1 Boiler Plant requested June 1995; NWP26 for Phase 2 Boiler
Plant requested February 26, 1996.

10. Estimated total number of acres of waters of the U.S., including wetlands, located on project site: 0.31 acre
of waters of the U.S. (Note: No wetlands located on project site.)

11. Number of acres of waters of the U.S., including wetlands, impacted by the proposed project:

Filled: 0.31 acre

Drained: N/A

Flooded: N/A

Excavated: N/A

Total Impacted: 0.31 acre

* Classified as "trout" by NC DEM

12. Description of proposed work (Attach PLANS-8 1/2" X 11" drawings only): Fill and culvert installation for 450 ft. of existing Boone Creek open channel.

13. Purpose of proposed work: Accommodate NCDOT widening of US 321 and facilitate construction of the Appalachian Convocation Center multi-purpose facility.

14. State reasons why the applicant believes that this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts. No wetlands are impacted by the proposed project.
(See attached supplemental information for more discussion on all items)

15. You are required to contact the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) regarding the presence or any Federally listed or proposed for listing endangered or threatened species or critical habitat in the permit area that may be affected by the proposed project. Have you done so? YES [X] NO []

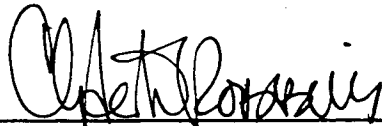
RESPONSES FROM THE USFWS AND/OR NMFS SHOULD BE FORWARDED TO CORPS.

16. You are required to contact the State Historic Preservation Officer (SHPO) regarding the presence of historic properties in the permit area which may be affected by the proposed project? Have you done so? YES [X] NO []

RESPONSE FROM THE SHPO SHOULD BE FORWARDED TO CORPS.

17. Additional information required by DEM:

- A. Wetland delineation map showing all wetlands, streams, and lakes on the property. No wetlands. Attached maps show water features
- B. If available, representative photograph of wetlands to be impacted by project. See attachment 3
- C. If delineation was performed by a consultant, include all data sheets relevant to the placement of the delineation line. N/A
- D. If a stormwater management plan is required for this project, attach copy. See attachment 2
- E. What is land use of surrounding property? Urban development (ASU, Boone commercial area)
- F. If applicable, what is proposed method of sewage disposal? Tie-in to POTW.


Owner's Signature

April 2, 1996
Date

SUPPLEMENTAL INFORMATION FOR JOINT 401/404 APPLICATION

Project: *Appalachian State University (ASU)/Appalachian Convocation Center*

Section 404 Nationwide Permit Requested: *NWP #26*

Section 401 General Water Quality Certification Requested: *GC #2671*

Application Information:

Item 1. Owners Name:

Appalachian State University, State of North Carolina

Item 2. Owners Address:

Appalachian State University, Boone, North Carolina (see item 4)

Item 3. Owners Phone Number:

Appalachian State University, Main Phone: 704-262-2000 (see item 4)

Item 4. Owner Representative, Address, and Phone Number:

Dr. Clyde Robbins
Associate Vice Chancellor, Physical Operations
Appalachian State University
265 Dale Street
Boone, North Carolina 28608
Phone: 704-262-4961

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Raleigh Field Office***

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Habitat Conservation Division***

Contacted: Ms. Arlene Bossie via telephone call on February 6, 1996

Comments: The phone call satisfies the contact requirements. The office will receive a copy of the Joint form from the COE and/or DEM (one of the 7 copies required).

***State Historic Preservation Office (SHPO)
N.C. Division of Archives and History***

Contacted: Ms. Renee Gladdhill-Erly via telephone call on February 6, 1996

Comments: One of the 7 copies goes to the SHPO for review. The phone call satisfies the contact requirement on the joint application form.

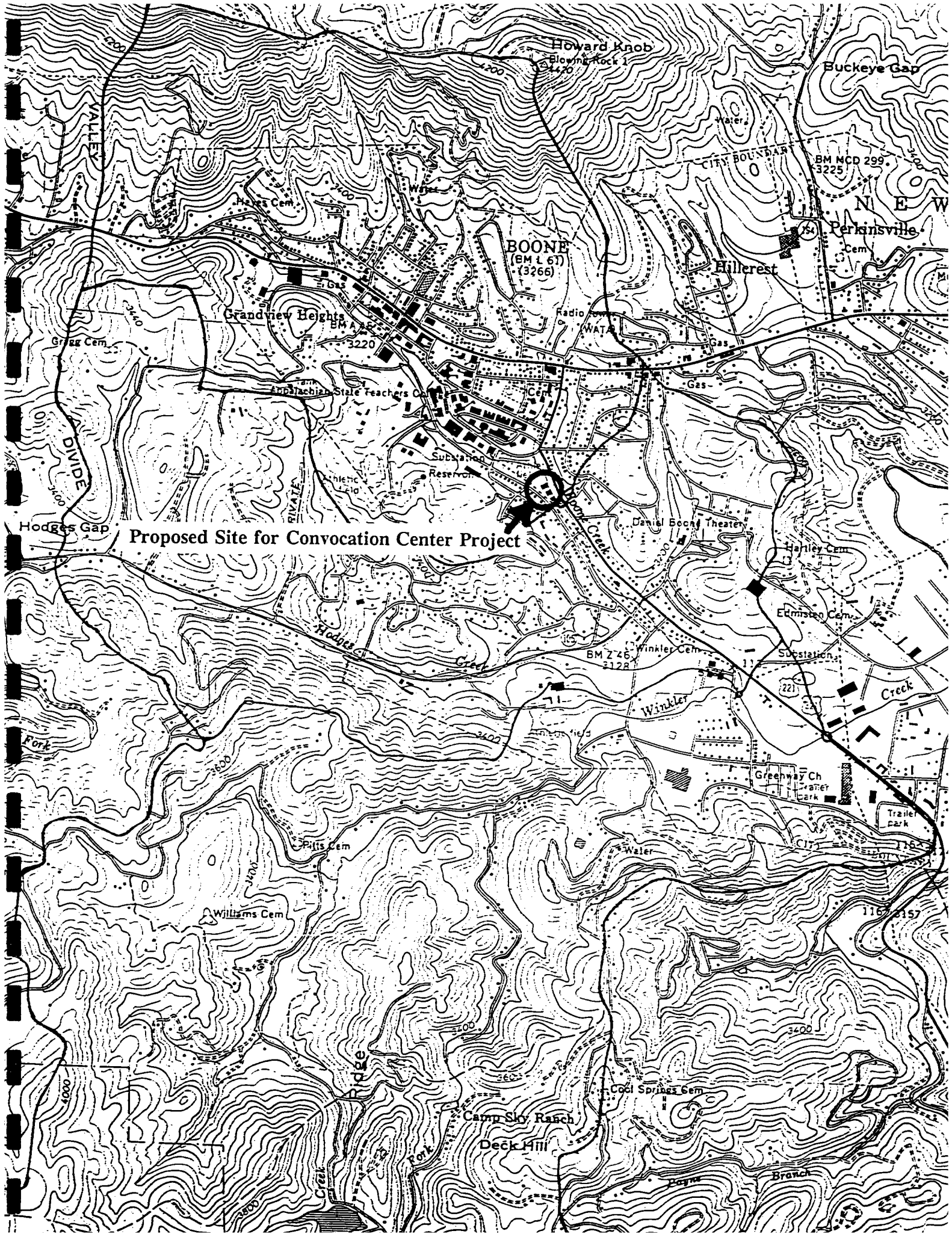
Item 17. Additional information for NC DEM:

- A. No wetlands are located on the site. See provided site plans/maps for detail on location of Boone Creek (see Attachments 1 and 2).
- B. Photos of the project site are provided herein (see Attachment 3).
- C. N/A
- D. The schematic drawings included herein (see Attachment 2) show the proposed grading and drainage plan for the project.
- E. Land use of the surrounding property is urban development consisting of university and Boone commercial area.
- F. The Convocation Center development will tie-in to the local POTW for sanitary sewage disposal (see Attachment 2 for utility plan).

ATTACHMENT 1

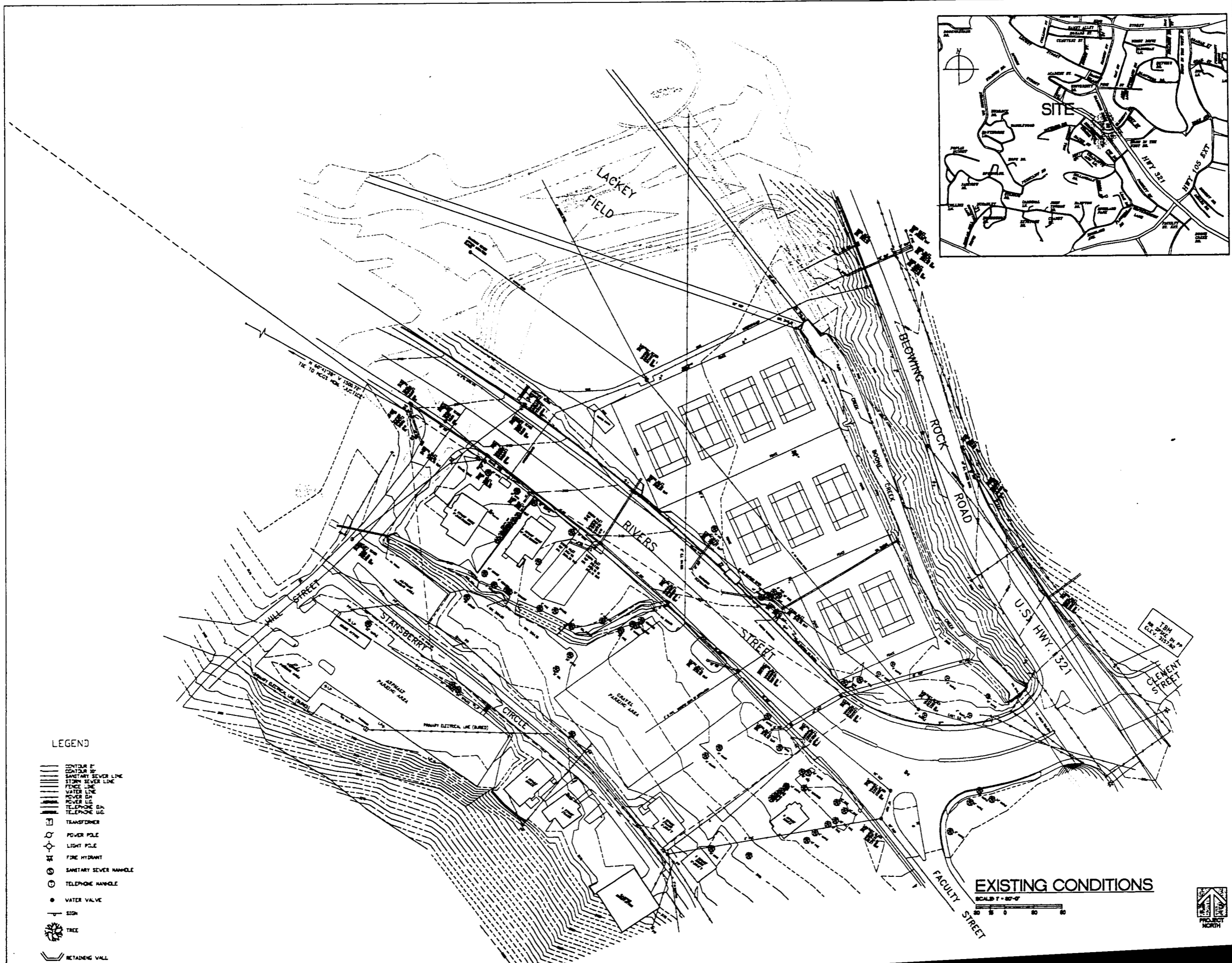
USGS "BOONE,NC" QUADRANGLE SHOWING SITE AREA

Proposed Site for Convocation Center Project



ATTACHMENT 2

SITE PLANS



LEGEND

- CONCRETE CURB
- SANITARY SEWER LINE
- STORM SEWER LINE
- FENCE LINE
- WATER LINE
- POWER LINE
- TELEPHONE LINE
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- WATER VALVE
- SIGN
- TREE
- RETAINING WALL

EXISTING CONDITIONS

SCALE 1" = 80'-0"

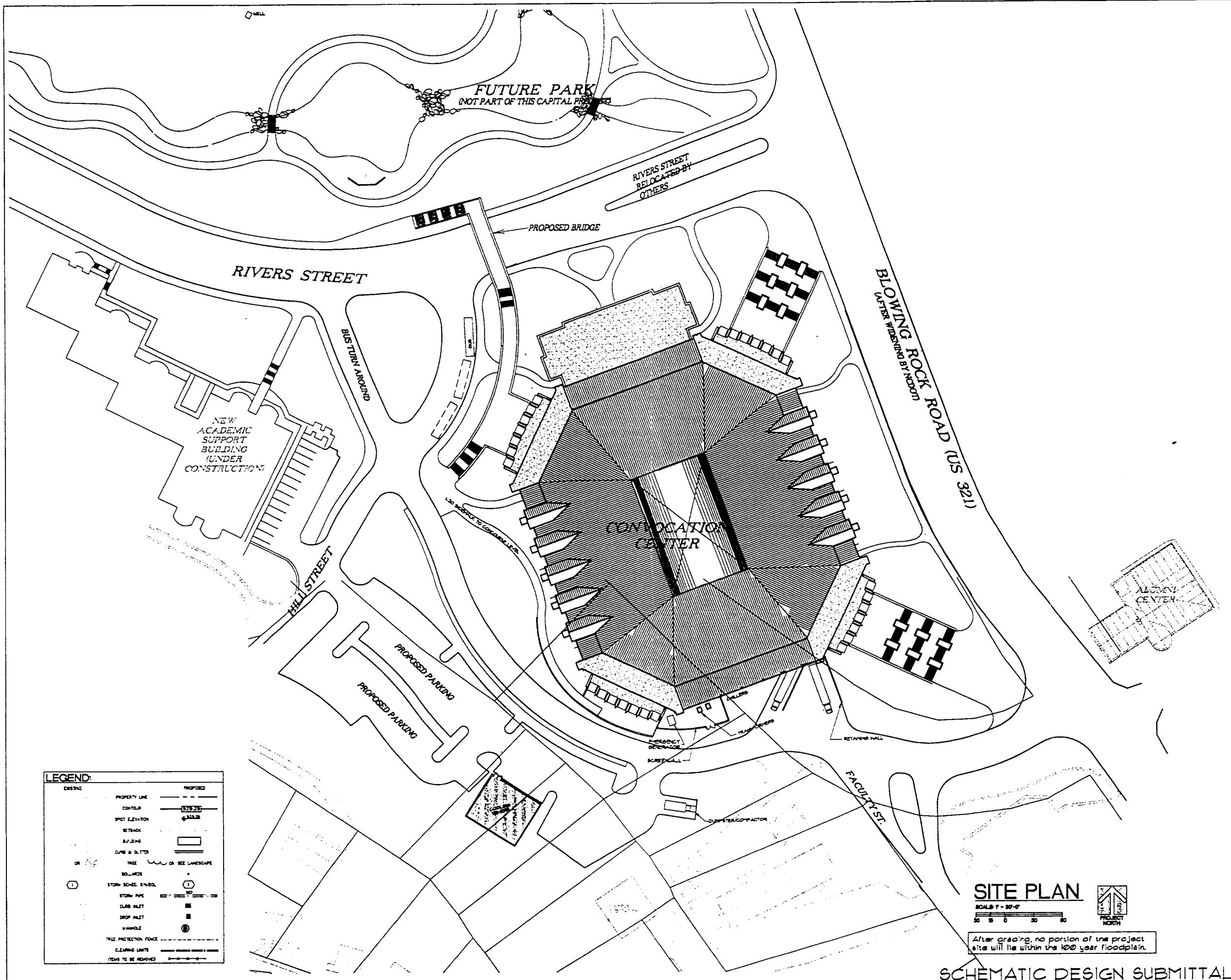
HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS PLANNERS ENGINEERS
 2000 15th, One Post Hill, Boone, N.C. 28601-1000

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

NO. REVISIONS

Drawn	Checked
ML	ML
EXISTING CONDITIONS	
Sheet	

C-1



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE
OR SEE LANDSCAPE	OR SEE LANDSCAPE
BOULDER	BOULDER
STORM SCHED. SYMBOL	STORM SCHED. SYMBOL
STORM PIPE	STORM PIPE
CURB INLET	CURB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
FENCE TO BE REMOVED	FENCE TO BE REMOVED

SITE PLAN

SCALE 1" = 30'-0"



After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • PLANNERS
 700 West 10th, Corvallis, Oregon 97331 • 503.325.1234



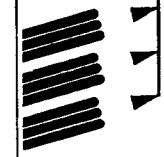
Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

DATE: 08/17/05 BY: JMS

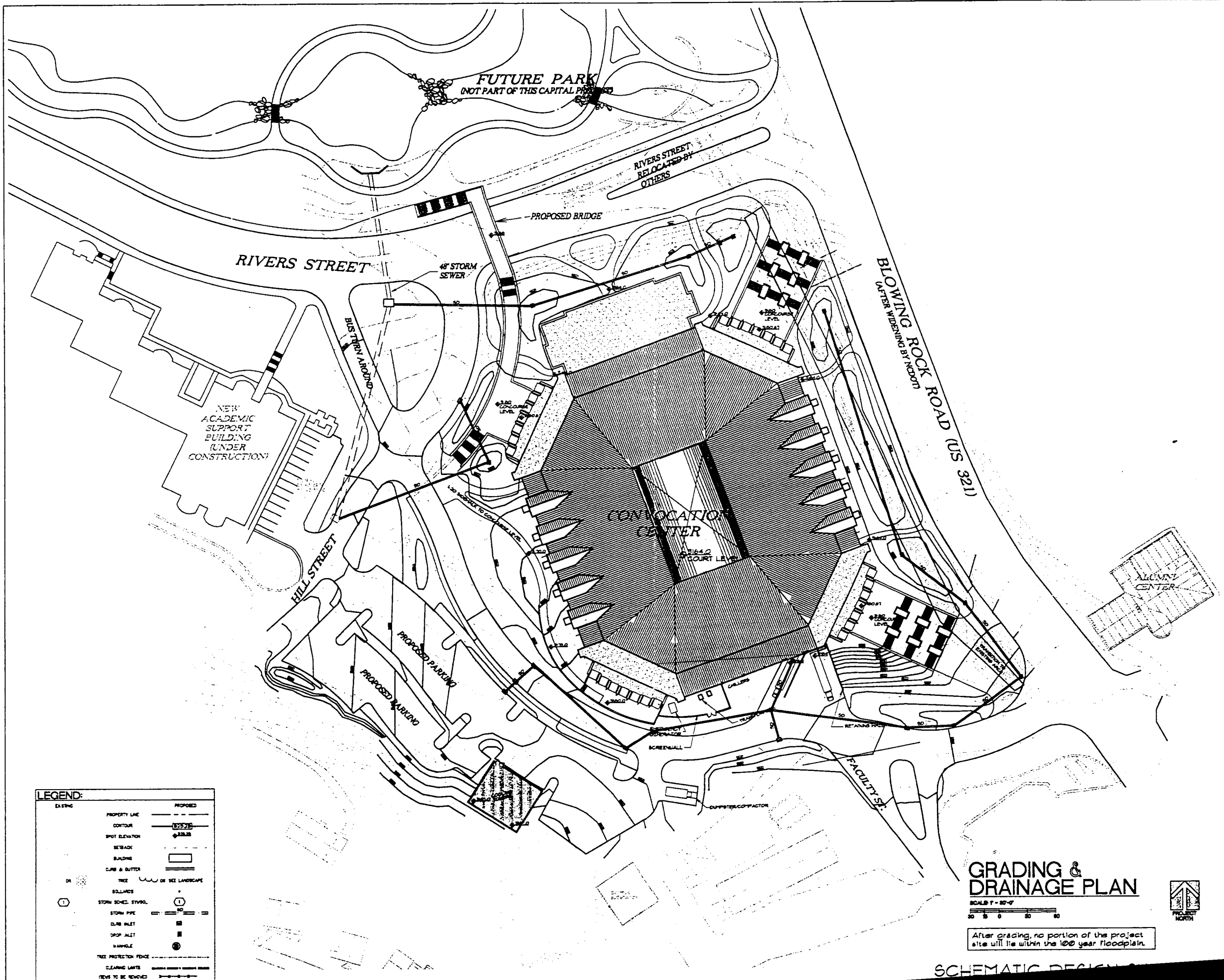
drawn checked
 JMS JMS
SCHEMATIC SITE PLAN

sheet
C-2
 of 3 total 1
 project no. 904
 date 1/20/06



no. revisions

CREW	checked
MLB	MLB
SCHEMATIC GRADING PLAN	
Sheet	C-3
of 3	total 1



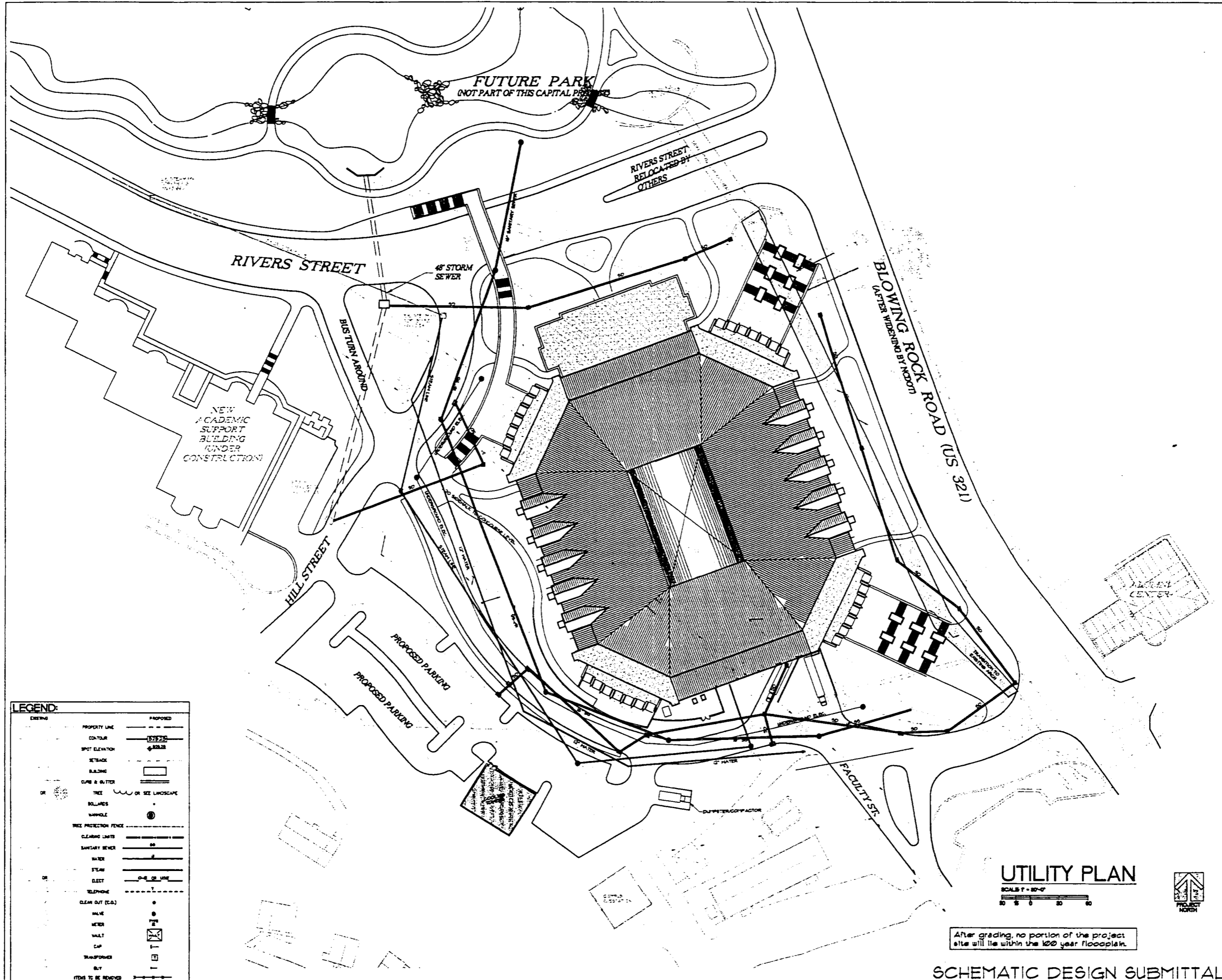
LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOLLARDS	BOLLARDS
STORM SCHED. STVRL.	STORM SCHED. STVRL.
STORM PIPE	STORM PIPE
CURB INLET	CURB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
TREES TO BE REMOVED	TREES TO BE REMOVED

GRADING & DRAINAGE PLAN
 SCALE: 1" = 20'-0"
 0 10 20 30 40

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CAN & GUTTER	CAN & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOARDS	BOARDS
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
SANITARY SEWER	SANITARY SEWER
WATER	WATER
STEAM	STEAM
ELECT	ELECT
TELEPHONE	TELEPHONE
CLEAN OUT (C.O.)	CLEAN OUT (C.O.)
VALVE	VALVE
WEIR	WEIR
WALL	WALL
CAP	CAP
TRANSFORMER	TRANSFORMER
SLY	SLY
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

UTILITY PLAN
 SCALE 1" = 20'-0"
 0 10 20 30

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 1000 S.W. 10th Street, Suite 1000, Gainesville, FL 32601
 PHONE: 352-361-1111, Fax: 352-361-1112

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

Drawn: MFB
 Checked: MFB
SCHEMATIC UTILITY PLAN
 Sheet: **C-4**
 of 3 total
 project no. 908
 date 1/28/94

ATTACHMENT 3

PHOTOGRAPHS OF THE SITE



Photo 1. Proposed site area showing ASU Lackey Baseball Field and tennis courts.

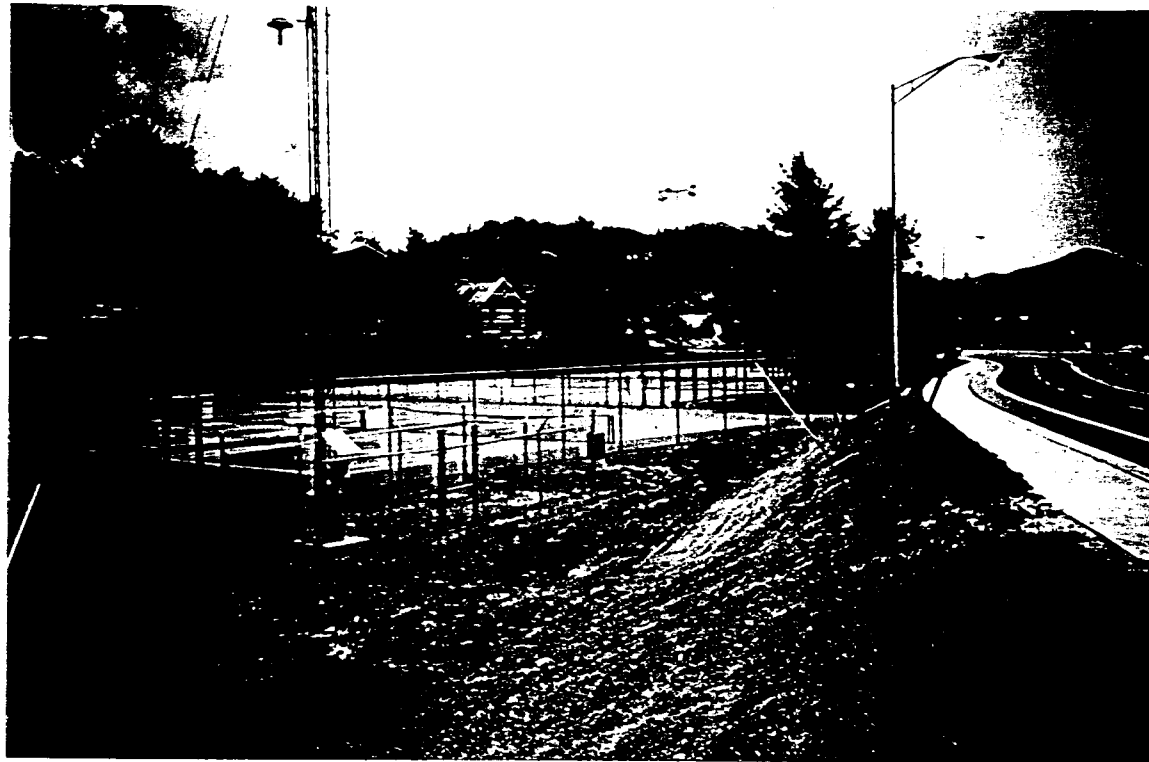


Photo 2. Proposed site area showing ASU tennis courts and Rivers Street.



Photo 3. Looking downstream along Boone Creek open channel in proposed site area.



Photo 4. Looking downstream at arch culvert under Rivers Street at US 321. Note ASU tennis courts adjacent to Boone Creek channel.



APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide
Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide Permit
(Nationwide Permit #26)*

Prepared for:
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Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

JOINT FORM FOR

Nationwide permits that require notification to the Corps of Engineers
Nationwide permits that require application for Section 401 certification

WILMINGTON DISTRICT ENGINEER
CORPS OF ENGINEERS
DEPARTMENT OF THE ARMY
P.O. Box 1890
Wilmington, NC 28402-1890
ATTN: CESAW-CO-E
Telephone (919) 251-4511

DIVISION OF ENVIRONMENTAL MANAGEMENT
NC DEPARTMENT OF ENVIRONMENT, HEALTH,
AND NATURAL RESOURCES
ENVIRONMENTAL SCIENCES BRANCH
4401 Reedy Creek Road
Raleigh, N.C. 27607
ATTN: MR. JOHN DORNEY
Telephone (919) 733-1786

ONE (1) COPY OF THIS COMPLETED APPLICATION SHOULD BE SENT TO THE CORPS OF ENGINEERS.
SEVEN (7) COPIES SHOULD BE SENT TO THE N.C. DIVISION OF ENVIRONMENTAL MANAGEMENT.
PLEASE PRINT.

1. Owners Name: Appalachian State University, State of North Carolina

2. Owners Address: Appalachian State University, Boone, North Carolina 28608

3. Owners Phone Number (Home): N/A (Work): (704) 262-2000
(main number)

4. If Applicable: Agent's name or responsible corporate official, address, phone number:

Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations

Appalachian State University, 265 Dale Street, Boone, NC 28608

Office Phone Number: 704-262-4961

5. Location of work (MUST ATTACH MAP). County: Watauga

Nearest Town or City: Town of Boone

Specific Location (Include road numbers, landmarks, etc.): Along Boone Creek and floodplain

just below existing ASU Lackey Baseball Field and above the intersection of

existing Rivers Street and US 321 (Blowing Rock Rd) at the ASU main entrance.

6. Name of Closest Stream/River: Boone Creek

7. River Basin: New River Basin

8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? YES NO *

9. Have any Section 404 permits been previously requested for use on this property? YES NO

If yes, explain. NWP26 for Phase 1 Boiler Plant requested June 1995; NWP26 for Phase 2 Boiler

Plant requested February 26, 1996.

10. Estimated total number of acres of waters of the U.S., including wetlands, located on project site: 0.31 acre

of waters of the U.S. (Note: No wetlands located on project site.)

11. Number of acres of waters of the U.S., including wetlands, impacted by the proposed project:

Filled: 0.31 acre

Drained: N/A

Flooded: N/A

Excavated: N/A

Total Impacted: 0.31 acre

* Classified as "trout" by NC DEM

12. Description of proposed work (Attach PLANS-8 1/2" X 11" drawings only): Fill and culvert installation for 450 ft. of existing Boone Creek open channel.

13. Purpose of proposed work: Accommodate NCDOT widening of US 321 and facilitate construction of the Appalachian Convocation Center multi-purpose facility.

14. State reasons why the applicant believes that this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts. No wetlands are impacted by the proposed project.
(See attached supplemental information for more discussion on all items)

15. You are required to contact the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) regarding the presence or any Federally listed or proposed for listing endangered or threatened species or critical habitat in the permit area that may be affected by the proposed project. Have you done so? YES [X] NO []

RESPONSES FROM THE USFWS AND/OR NMFS SHOULD BE FORWARDED TO CORPS.

16. You are required to contact the State Historic Preservation Officer (SHPO) regarding the presence of historic properties in the permit area which may be affected by the proposed project? Have you done so? YES [X] NO []

RESPONSE FROM THE SHPO SHOULD BE FORWARDED TO CORPS.

17. Additional information required by DEM:

- A. Wetland delineation map showing all wetlands, streams, and lakes on the property. No wetlands. Attached maps show water features.
- B. If available, representative photograph of wetlands to be impacted by project. See attachment 3
- C. If delineation was performed by a consultant, include all data sheets relevant to the placement of the delineation line. N/A
- D. If a stormwater management plan is required for this project, attach copy. See attachment 2
- E. What is land use of surrounding property? Urban development (ASU, Boone commercial area)
- F. If applicable, what is proposed method of sewage disposal? Tie-in to POTW.


Owner's Signature

April 2, 1996
Date

SUPPLEMENTAL INFORMATION FOR JOINT 401/404 APPLICATION

Project: *Appalachian State University (ASU)/Appalachian Convocation Center*

Section 404 Nationwide Permit Requested: *NWP #26*

Section 401 General Water Quality Certification Requested: *GC #2671*

Application Information:

Item 1. Owners Name:

Appalachian State University, State of North Carolina

Item 2. Owners Address:

Appalachian State University, Boone, North Carolina (see item 4)

Item 3. Owners Phone Number:

Appalachian State University, Main Phone: 704-262-2000 (see item 4)

Item 4. Owner Representative, Address, and Phone Number:

Dr. Clyde Robbins
Associate Vice Chancellor, Physical Operations
Appalachian State University
265 Dale Street
Boone, North Carolina 28608
Phone: 704-262-4961

Item 5. Location of work: (See maps and plans provided as Attachments 1 and 2)

Maps include: USGS "Boone, NC" quadrangle and site plans

County: Watauga County, North Carolina

Nearest Town or City: Town of Boone

Specific Location: Along Boone Creek and floodplain just below the existing ASU Lackey Baseball Field and above the intersection of existing Rivers Street and US 321 (Blowing Rock Road) at the ASU main entrance.

Item 6. Name of Closest Stream/River:

Stream: Boone Creek

Item 7. River Basin:

New River Basin. Boone Creek feeds into Winkler Creek which discharges into the South Fork of the New River.

Item 8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? [YES]

Stream Class: Class C - Trout, Special Waters, "+" NC DEM designation (information obtained from Mr. Ron Linville, Winston-Salem Regional DEM Office).

Watershed: Project is *not* located within a State designated water-supply watershed. WS-II and WS-IV water-supply watersheds are located south and southeast of the project area, respectively.

Item 9. Have any Section 404 permits been previously requested for use on this property? [YES] If yes, explain.

Work along the Boone Creek channel associated with Phase 1 of the ASU Boiler Plant Facility (*upstream of the Phase 2 Boiler Plant work and Convocation Center site*) was determined to require a US Army COE Nationwide 26 permit. The NWP 26 for Phase 1 was requested in June 1995. The channel restoration work associated with Phase 2 of the Boiler Plant project will also require a NWP 26. The permit for the Phase 2 work was requested on February 26, 1996.

It is not known if any Section 404 permits have been previously requested for use on the *specific Convocation Center project site* along Boone Creek, however.

Item 10. Estimated total number of acres of waters of the US, including wetlands, located on project site:

Approximately 0.31 acre of "waters of the US" located on the project site along Boone Creek. (*See item 11 for more detail and discussion.*)

The US Army COE has determined (Mr. Steve Chapin, Asheville Field Office) that *no wetlands* exist on the proposed project site (reference is made to COE letter dated September 8, 1995, Action ID. 199504607, Pre-Application, and a project coordination meeting at ASU on February 22, 1996.) Therefore, a wetlands delineation will not be applicable to this project.

Item 11. Number of acres of waters of the US, including wetlands, impacted by the proposed project:

Filled: *Approximately 0.31 acre
Drained: not applicable
Flooded: not applicable
Excavated: not applicable
Total Impacted: *Approximately 0.31 acre

**Note: A culvert system of 800 linear feet (+/-) is proposed for Boone Creek to accommodate the planned NCDOT widening of US 321 and facilitate development of the Convocation Center. However, only 450 feet of the stream is currently in an open channel condition. A typical bank-to-bank top channel width for the existing open channel section is approximately 30 feet or less. The width of the ordinary high water level along the stream is also 30 feet or less. Also, no wetlands are located in the project area.*

Using these parameters for calculation of area, the estimate of total impact to "waters of the US" along Boone Creek is approximately 0.31 acre. This is determined from the 450 linear ft of existing open channel stream and the 30 ft maximum width of the ordinary high water level (450' x 30' = 13,500 sq ft; 13,500 sq ft / 43,560 sq ft per acre = 0.31 acre). This methodology for determining total area of impact to waters of the US is based upon discussions with Mr. Steve Chapin (US Army COE) and confirmed by Mr. John Dorney (NC DEM, Raleigh Central Office) in a telephone conversation with Scott Bryant (Ogden) February 19, 1996. Mr. Dorney further noted that if the impacted area is equal to or less than one-third of an acre, a written approval from DEM is not required for the project.

Item 12. Description of Proposed Work: (See site plans attached)

The proposed work involves the development of a multi-purpose Convocation Center facility at Appalachian State University. The planned NCDOT widening of US 321, in conjunction with site placement of the Convocation Center facility, requires that a 450 ft section of Boone Creek open channel be placed into a culvert system.

Item 13. Purpose of Proposed Work:

The "Appalachian Convocation Center" will serve as a multi-purpose place of assembly for university convocations, concerts, public speakers, various sports tournaments, training camps, family entertainment shows, conventions, trade association events and exhibits. This facility will serve the Town of Boone and the region, in addition to the University.

Approximately 27% of the Convocation Center's floor area is dedicated to academic program space for the ASU Health Leisure and Exercise Science department. The academic area will include faculty offices, classrooms, special instructional spaces, and research labs.

Item 14. State reasons why the applicant believes this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts.

As noted above, the proposed activity does *not* involve any disturbance of wetlands. The project will involve the culverting of approximately 0.31 acre of "waters of the US" along Boone Creek. The impact to waters of the US will be minimal, however, because some of the stream is already in culvert.

In order to successfully widen US 321 and develop the Convocation Center site, the proposed fill and culverting is necessary. The fill will place the site at an elevation above the 100-year base flood level to protect the building and adjacent facilities.

Land use adjacent to the existing reach of Boone Creek open channel is typically urban and includes Blowing Rock Road (US 321), Boone commercial development, Rivers Street, some residential development, and University tennis courts. Therefore, the proposed fill and culverting of the site and stream will not significantly change the nature of the setting nor degrade existing uses.

With regards to adjacent projects, ASU has prepared design plans to remove the approximate 960 ft run of culvert immediately upstream from the Convocation Center and restore this area with a "natural mountain stream" concept. The Boone Creek culvert that will be removed begins at Hardin Street near the ASU boiler facility and exits just below ASU Lackey Baseball Field in the proposed Convocation Center site area. As part of the Boone Creek restoration, Lackey Field will also be relocated to another part of the ASU campus. All of this described upstream work is associated with the ASU Phase 2 Boiler Plant Project and includes the realignment of Rivers Street with US 321 immediately upstream of the Convocation Center site. The 404 application for the Phase 2 work was submitted to the Corps of Engineers on February 26, 1996.

In sum, the planned widening of US 321 and site placement of the Convocation Center will require the filling and culverting of approximately 0.31 acre or less of "waters of the US" along Boone Creek. With the constraints of these two projects, the proposed culverting is the only practical option for the stream.

Items 15 and 16. Required Contacts:

***U.S. Fish and Wildlife Service (USFWS)
Raleigh Field Office***

Contacted: Ms. Sonja Wilson via telephone call on February 6, 1996

Comments: U.S. Fish and Wildlife Service requested a copy of the Joint 401/404 application form. Upon receipt of a copy of the Joint form, they will reply. Ogden Environmental, on behalf of ASU, will forward a copy of this application to USFWS.

***National Marine Fisheries Service (NMFS)
Habitat Conservation Division***

Contacted: Ms. Arlene Bossie via telephone call on February 6, 1996

Comments: The phone call satisfies the contact requirements. The office will receive a copy of the Joint form from the COE and/or DEM (one of the 7 copies required).

***State Historic Preservation Office (SHPO)
N.C. Division of Archives and History***

Contacted: Ms. Renee Gladdhill-Erly via telephone call on February 6, 1996

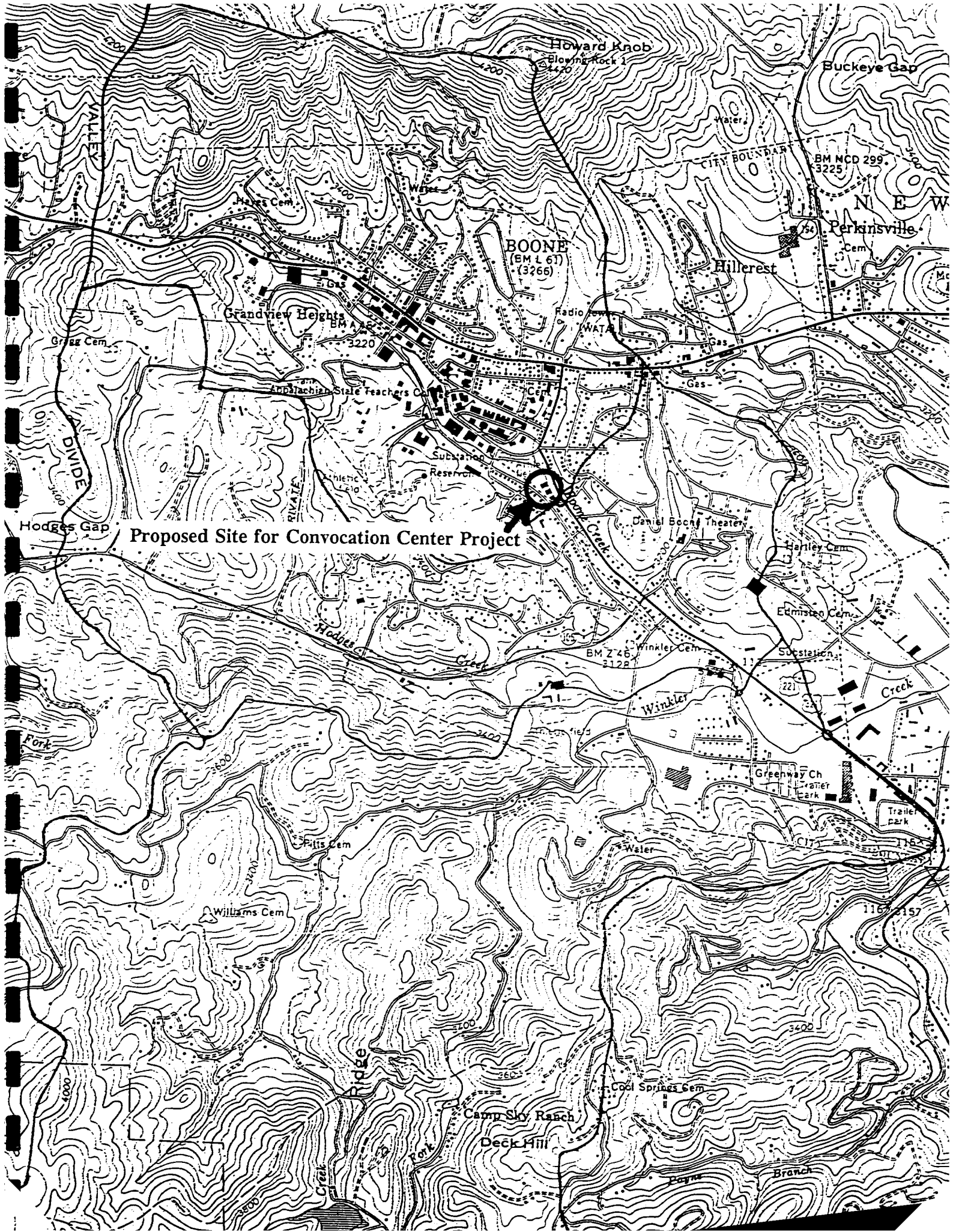
Comments: One of the 7 copies goes to the SHPO for review. The phone call satisfies the contact requirement on the joint application form.

Item 17. Additional information for NC DEM:

- A. No wetlands are located on the site. See provided site plans/maps for detail on location of Boone Creek (see Attachments 1 and 2).
- B. Photos of the project site are provided herein (see Attachment 3).
- C. N/A
- D. The schematic drawings included herein (see Attachment 2) show the proposed grading and drainage plan for the project.
- E. Land use of the surrounding property is urban development consisting of university and Boone commercial area.
- F. The Convocation Center development will tie-in to the local POTW for sanitary sewage disposal (see Attachment 2 for utility plan).

ATTACHMENT 1

USGS "BOONE,NC" QUADRANGLE SHOWING SITE AREA



Proposed Site for Convocation Center Project

Howard Knob
Blowing Rock 1
3420

BOONE
(EM L 67)
3266

Grandview Heights
EM A 22
3220

Buckeye Gap

Perkinsville

Hillcrest

Hodges Gap

Daniel Boone Theater

Harley Cem

Edmiston Cem

Winkler Cem

Substation

Greenway Ch
Water Park

Creek

Fitts Cem

Williams Cem

Water

Cool Springs Cem

Camp Sky Ranch

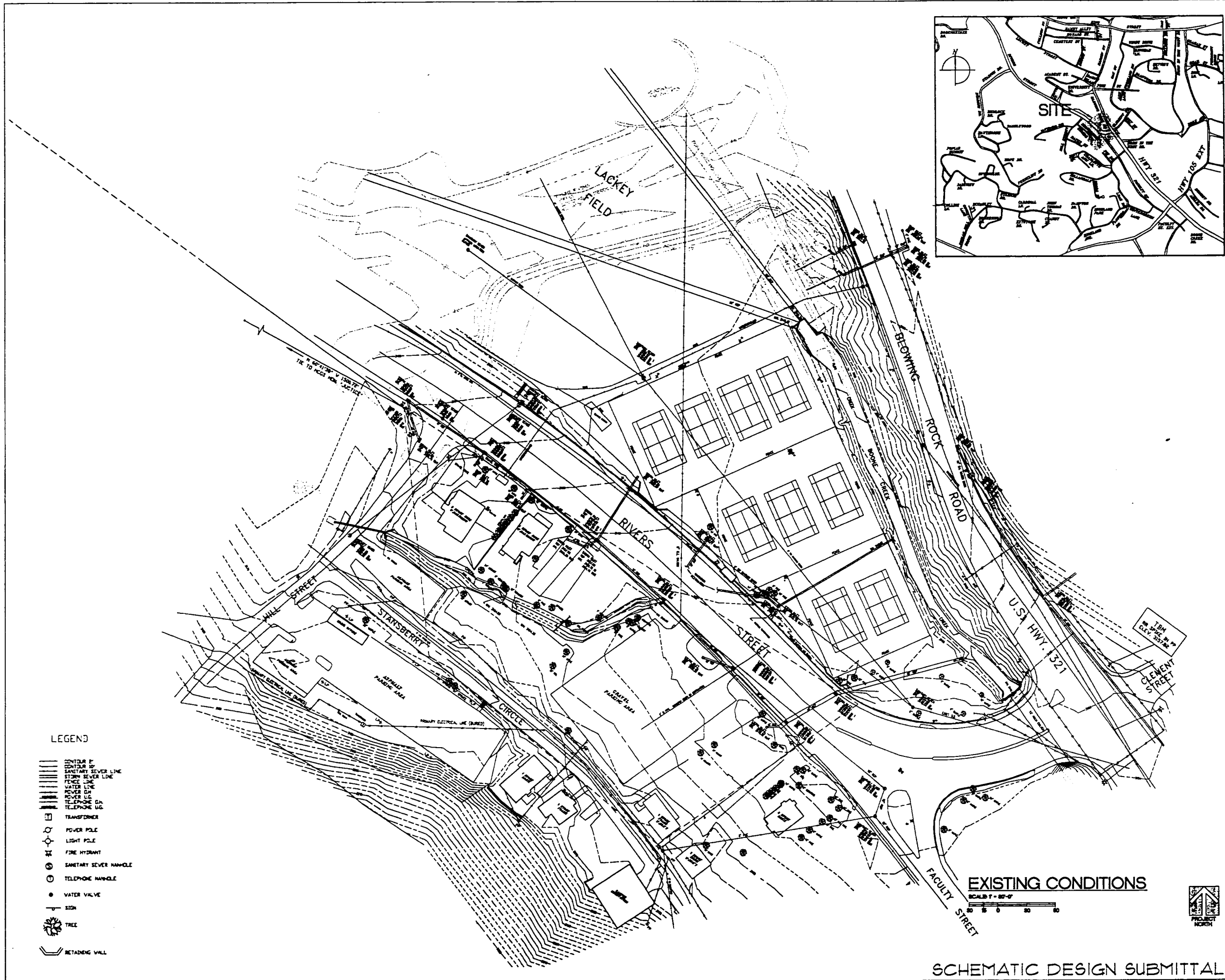
Deck Hill

Payne

Branch

ATTACHMENT 2

SITE PLANS



LEGEND

- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- GAS LINE
- TELEPHONE LINE
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- WATER VALVE
- SIGN
- TREE
- RETAINING WALL

EXISTING CONDITIONS
 SCALE 1" = 80'-0"

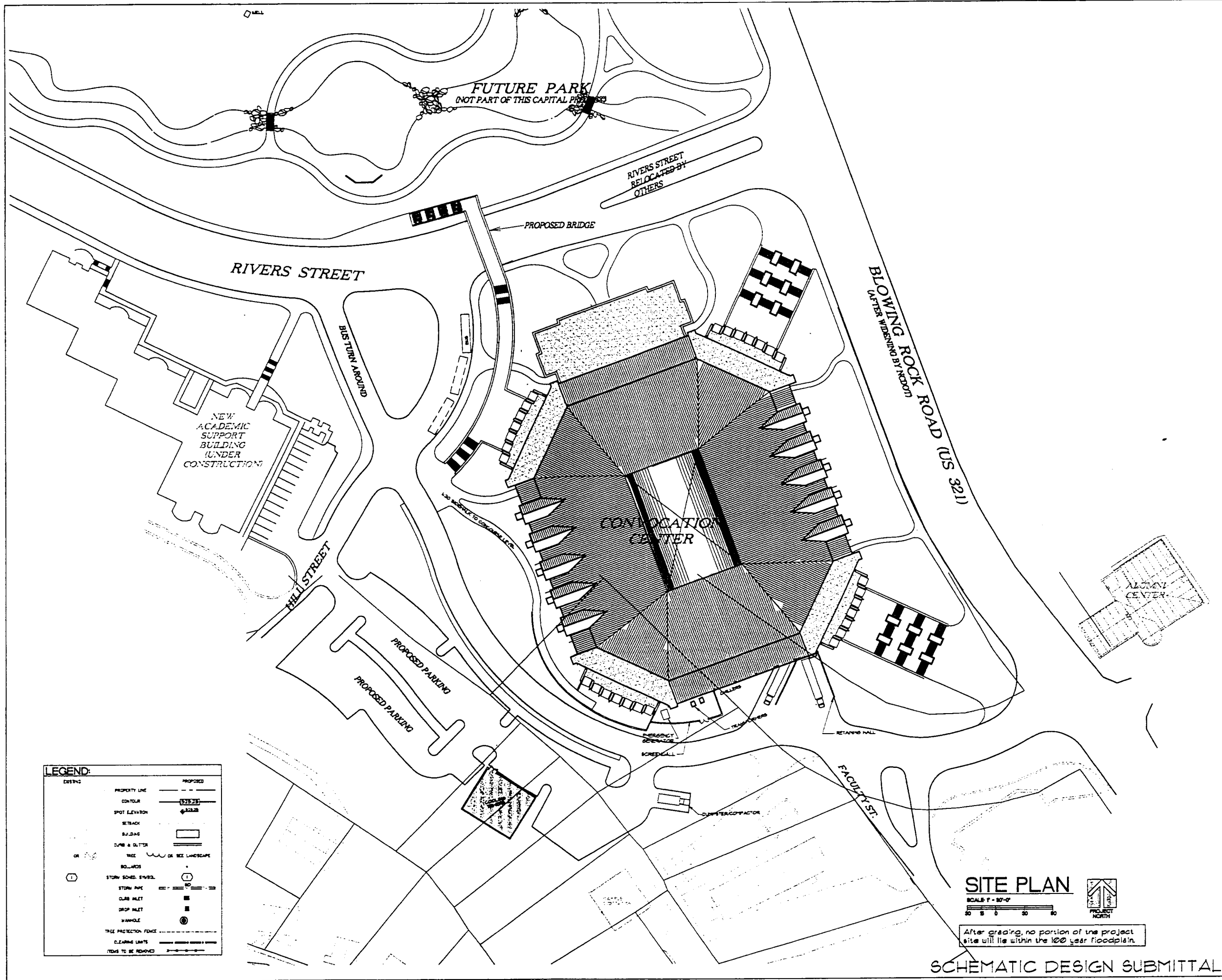
HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS - ENGINEERS - PLANNERS
 20200 3346, Chapel Hill, North Carolina 27514-3346

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

drawn	checked
MJS	MJS
EXISTING CONDITIONS	
sheet	
C-1	
of 5	total 1
project no. 9484	
date 1/20/84	

SCHEMATIC DESIGN SUBMITTAL



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOULDER	BOULDER
STORM SCHED. STYRE	STORM SCHED. STYRE
STORM PIPE	STORM PIPE
CURB INLET	CURB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

SITE PLAN

SCALE 1" = 30'-0"



After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

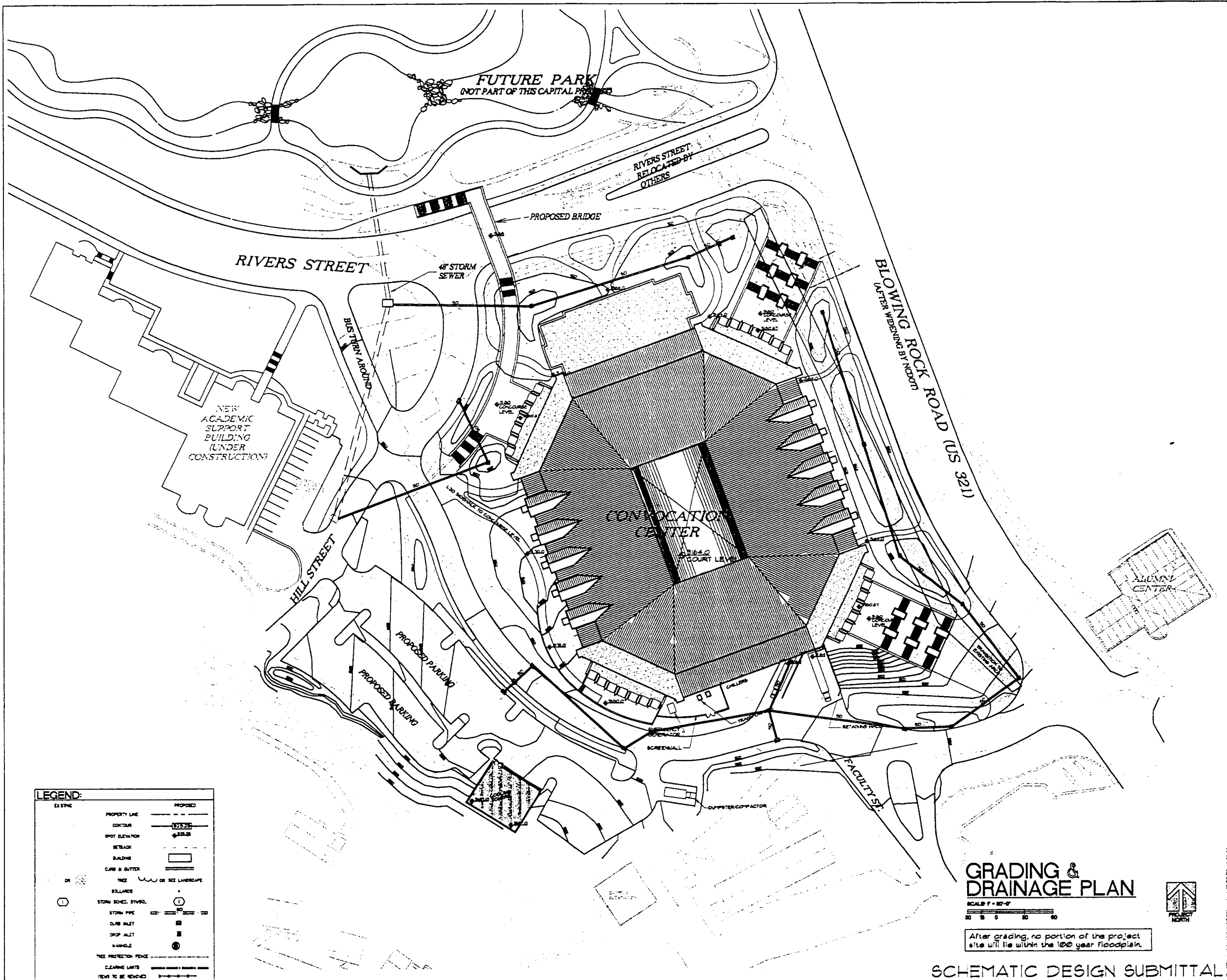
HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • DESIGNERS • PLANNERS
 20200-21441, Chapel Hill, North Carolina 27514-2144



Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

drawn	checked
MTB	MTB
SCHEMATIC SITE PLAN	
sheet	
C-2	
of 3	total 1
project no.	9034
date	1/30/98



LEGEND:

EXISTING		PROPOSED	
---	PROPERTY LINE	- - - - -	PROPOSED
- - - - -	CONTOUR	175.20	
▲	SPOT ELEVATION	123.25	
- - - - -	SETBACK		
▭	BUILDING		
- - - - -	CURB & GUTTER		
○	TREE	OR SEE LANDSCAPE	
■	BOLLARDS		
○	STORM SCHED. SYMBOL	1	
- - - - -	STORM PIPE		
■	CLUB INLET		
■	DROP INLET		
○	MANHOLE		
- - - - -	TREE PROTECTION FENCE		
- - - - -	CLEARING LIMITS		
- - - - -	TREES TO BE REMOVED		

GRADING & DRAINAGE PLAN
SCALE 1" = 30'-0"



After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

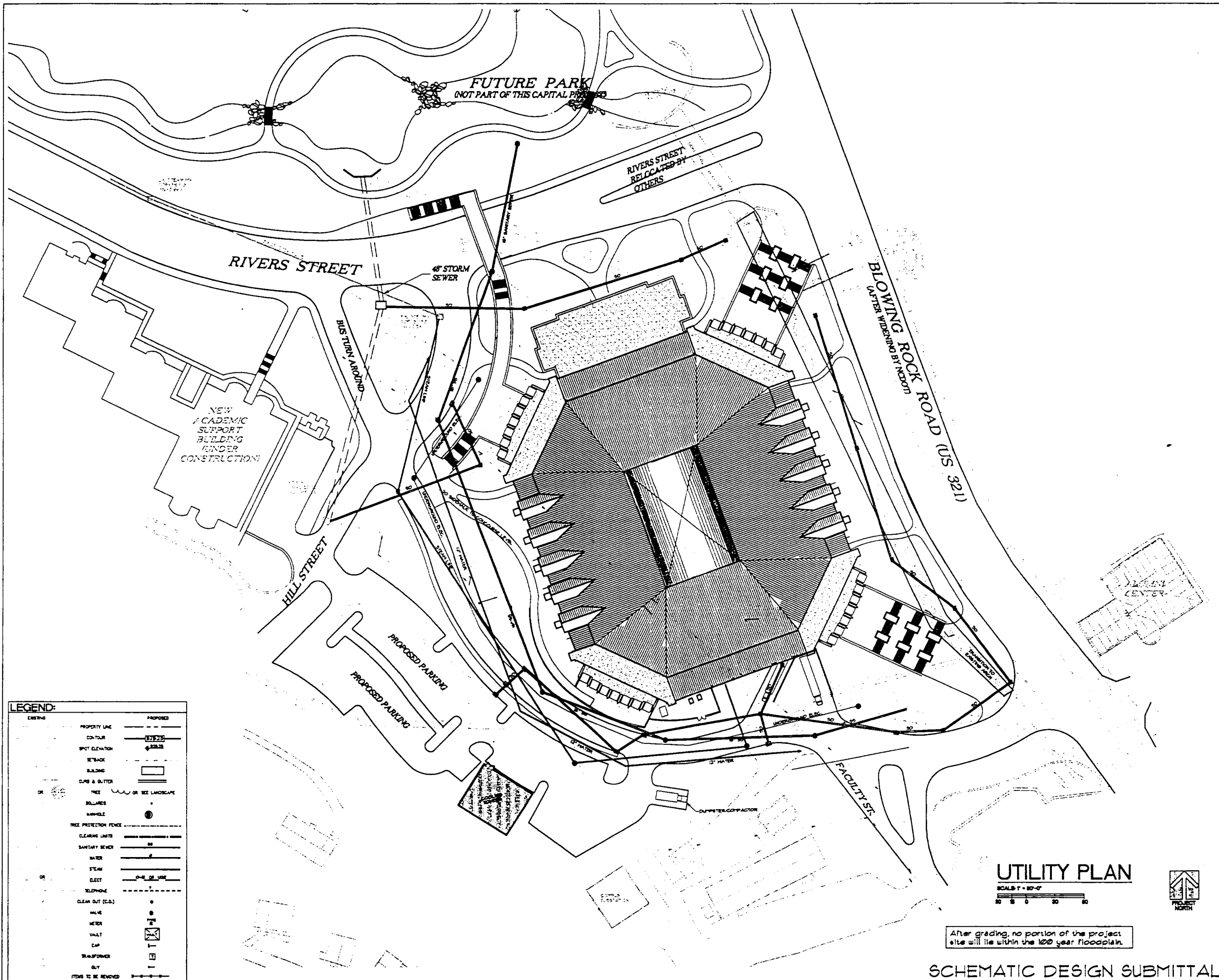
HAKAN CORLEY REDFOOT ZACK
ARCHITECTS - ENGINEERS - PLANNERS
10000 N. STATE STREET, SUITE 100
BOONE, N.C. 28608
PHONE 828.292.1111 FAX 828.292.1112

Appalachian STATE UNIVERSITY
Appalachian Convocation Center
Boone, N. C.

no. revisions

no.	description	drawn	checked
1	SCHEMATIC GRADING PLAN	JMS	MLP

sheet
C-3
of 5 total 1
project no. 948



HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 1000 W. 11th St., Suite 100
 Boone, NC 28604



Appalachian
 STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

DATE: 07/27/00
 CHECKED: M.H.
 DRAWN: M.H.
 PROJECT NO. 904
 SHEET NO. C-4
 DATE: 1/20/00

UTILITY PLAN
 SCALE: 1" = 20'-0"
 0 10 20 30
SCHEMATIC DESIGN SUBMITTAL

ATTACHMENT 3

PHOTOGRAPHS OF THE SITE



Photo 1. Proposed site area showing ASU Lackey Baseball Field and tennis courts.

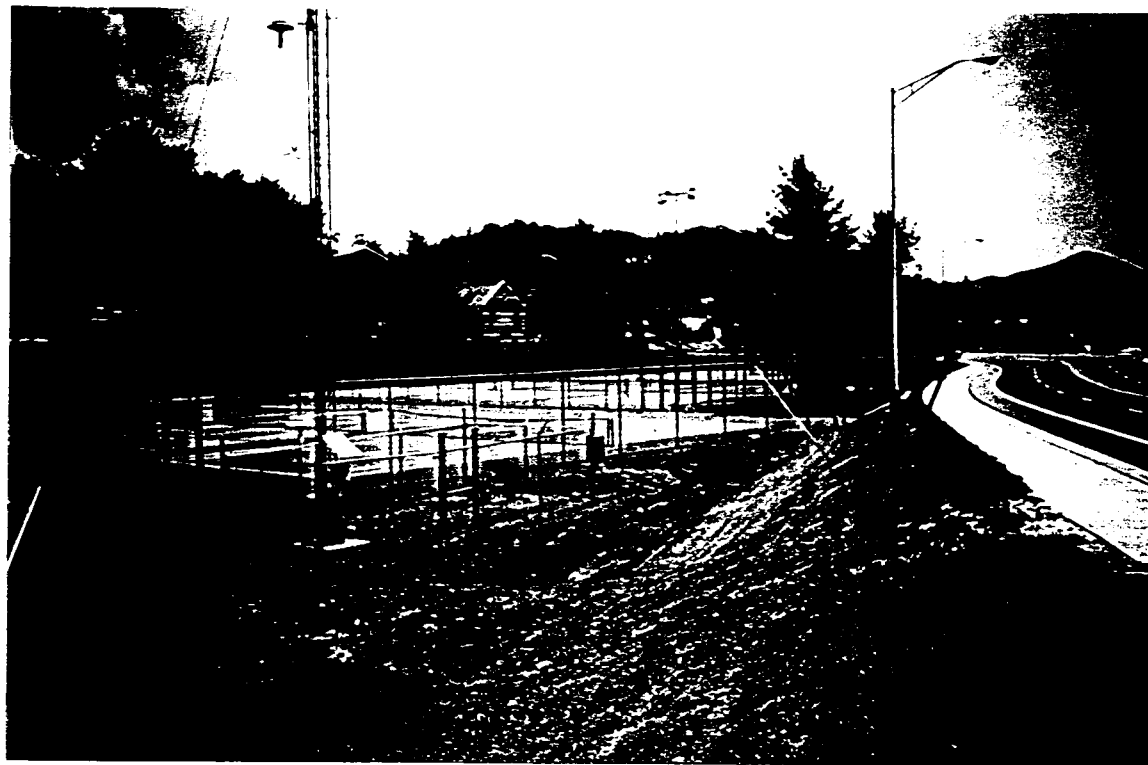


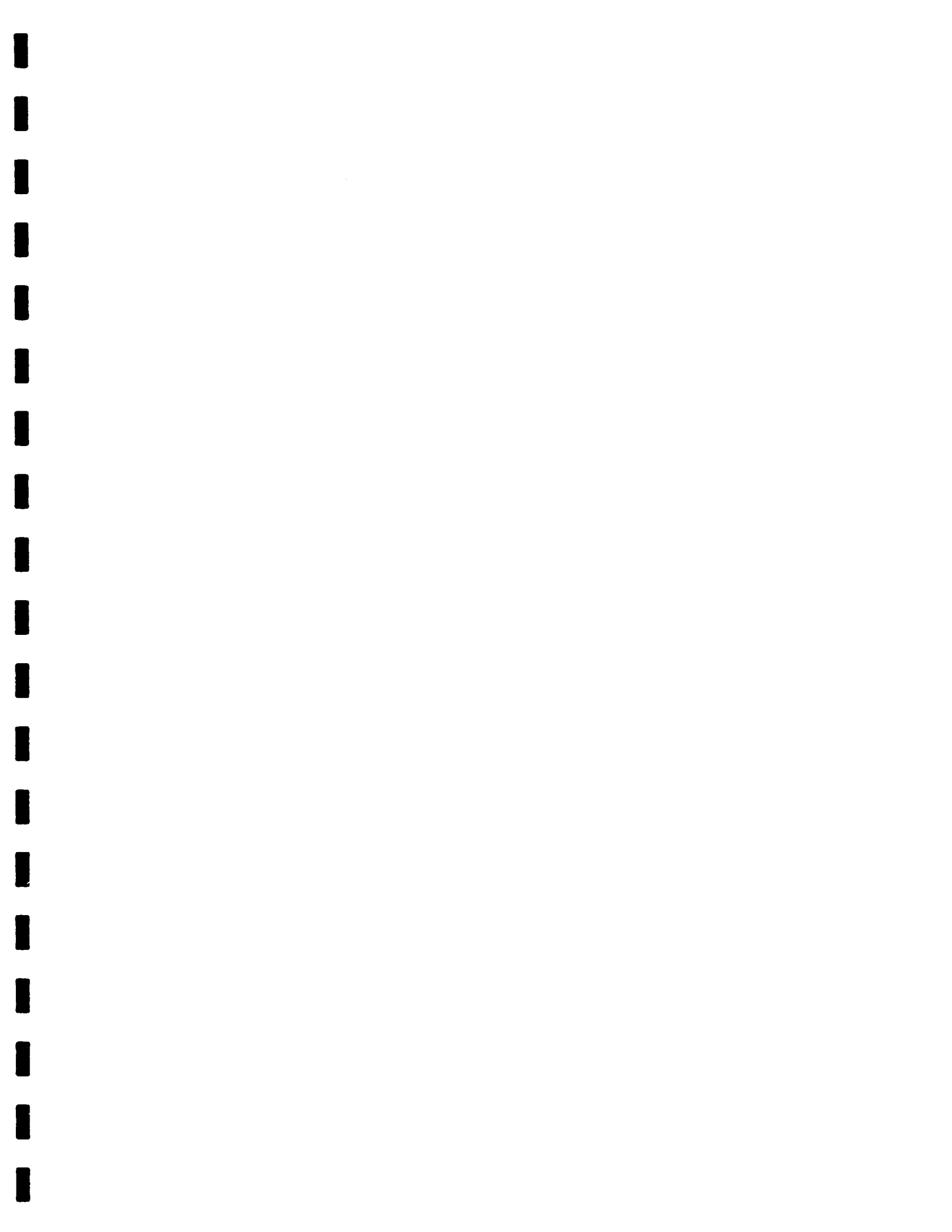
Photo 2. Proposed site area showing ASU tennis courts and Rivers Street.



Photo 3. Looking downstream along Boone Creek open channel in proposed site area.



Photo 4. Looking downstream at arch culvert under Rivers Street at US 321. Note ASU tennis courts adjacent to Boone Creek channel.



APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide
Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide Permit
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March 29, 1996

JOINT FORM FOR

Nationwide permits that require notification to the Corps of Engineers
 Nationwide permits that require application for Section 401 certification

WILMINGTON DISTRICT ENGINEER
 CORPS OF ENGINEERS
 DEPARTMENT OF THE ARMY
 P.O. Box 1890
 Wilmington, NC 28402-1890
 ATTN: CESAW-CO-E
 Telephone (919) 251-4511

DIVISION OF ENVIRONMENTAL MANAGEMENT
 NC DEPARTMENT OF ENVIRONMENT, HEALTH,
 AND NATURAL RESOURCES
 ENVIRONMENTAL SCIENCES BRANCH
 4401 Reedy Creek Road
 Raleigh, N.C. 27607
 ATTN: MR. JOHN DORNEY
 Telephone (919) 733-1786

ONE (1) COPY OF THIS COMPLETED APPLICATION SHOULD BE SENT TO THE CORPS OF ENGINEERS.
 SEVEN (7) COPIES SHOULD BE SENT TO THE N.C. DIVISION OF ENVIRONMENTAL MANAGEMENT.
 PLEASE PRINT.

1. Owners Name: Appalachian State University, State of North Carolina

2. Owners Address: Appalachian State University, Boone, North Carolina 28608

3. Owners Phone Number (Home): N/A (Work): (704) 262-2000
 (main number)

4. If Applicable: Agent's name or responsible corporate official, address, phone number:

Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations

Appalachian State University, 265 Dale Street, Boone, NC 28608

Office Phone Number: 704-262-4961

5. Location of work (MUST ATTACH MAP). County: Watauga

Nearest Town or City: Town of Boone

Specific Location (Include road numbers, landmarks, etc.): Along Boone Creek and floodplain

just below existing ASU Lackey Baseball Field and above the intersection of
existing Rivers Street and US 321 (Blowing Rock Rd) at the ASU main entrance.

6. Name of Closest Stream/River: Boone Creek

7. River Basin: New River Basin

8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? YES NO

9. Have any Section 404 permits been previously requested for use on this property? YES NO

If yes, explain. NWP26 for Phase 1 Boiler Plant requested June 1995; NWP26 for Phase 2 Boiler
Plant requested February 26, 1996.

10. Estimated total number of acres of waters of the U.S., including wetlands, located on project site: 0.31 acre
 of waters of the U.S. (Note: No wetlands located on project site.)

11. Number of acres of waters of the U.S., including wetlands, impacted by the proposed project:

Filled: 0.31 acre

Drained: N/A

Flooded: N/A

Excavated: N/A

Total Impacted: 0.31 acre

12. Description of proposed work (Attach PLANS-8 1/2" X 11" drawings only): Fill and culvert installation for 450 ft. of existing Boone Creek open channel.

13. Purpose of proposed work: Accommodate NCDOT widening of US 321 and facilitate construction of the Appalachian Convocation Center multi-purpose facility.


14. State reasons why the applicant believes that this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts. No wetlands are impacted by the proposed project.
(See attached supplemental information for more discussion on all items)

15. You are required to contact the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS) regarding the presence or any Federally listed or proposed for listing endangered or threatened species or critical habitat in the permit area that may be affected by the proposed project. Have you done so? YES NO
RESPONSES FROM THE USFWS AND/OR NMFS SHOULD BE FORWARDED TO CORPS.

16. You are required to contact the State Historic Preservation Officer (SHPO) regarding the presence of historic properties in the permit area which may be affected by the proposed project? Have you done so? YES NO
RESPONSE FROM THE SHPO SHOULD BE FORWARDED TO CORPS.

17. Additional information required by DEM:

- A. Wetland delineation map showing all wetlands, streams, and lakes on the property. No wetlands. Attached maps show water features
- B. If available, representative photograph of wetlands to be impacted by project. See attachment 3
- C. If delineation was performed by a consultant, include all data sheets relevant to the placement of the delineation line. N/A
- D. If a stormwater management plan is required for this project, attach copy. See attachment 2
- E. What is land use of surrounding property? Urban development (ASU, Boone commercial area)
- F. If applicable, what is proposed method of sewage disposal? Tie-in to POTW.

 April 2, 1996
Owner's Signature Date

SUPPLEMENTAL INFORMATION FOR JOINT 401/404 APPLICATION

Project: *Appalachian State University (ASU)/Appalachian Convocation Center*

Section 404 Nationwide Permit Requested: *NWP #26*

Section 401 General Water Quality Certification Requested: *GC #2671*

Application Information:

Item 1. Owners Name:

Appalachian State University, State of North Carolina

Item 2. Owners Address:

Appalachian State University, Boone, North Carolina (see item 4)

Item 3. Owners Phone Number:

Appalachian State University, Main Phone: 704-262-2000 (see item 4)

Item 4. Owner Representative, Address, and Phone Number:

Dr. Clyde Robbins
Associate Vice Chancellor, Physical Operations
Appalachian State University
265 Dale Street
Boone, North Carolina 28608
Phone: 704-262-4961

Item 5. Location of work: (See maps and plans provided as Attachments 1 and 2)

Maps include: USGS "Boone, NC" quadrangle and site plans

County: Watauga County, North Carolina

Nearest Town or City: Town of Boone

Specific Location: Along Boone Creek and floodplain just below the existing ASU Lackey Baseball Field and above the intersection of existing Rivers Street and US 321 (Blowing Rock Road) at the ASU main entrance.

Item 6. Name of Closest Stream/River:

Stream: Boone Creek

Item 7. River Basin:

New River Basin. Boone Creek feeds into Winkler Creek which discharges into the South Fork of the New River.

Item 8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? [YES]

Stream Class: Class C - Trout, Special Waters, "+" NC DEM designation (information obtained from Mr. Ron Linville, Winston-Salem Regional DEM Office).

Watershed: Project is *not* located within a State designated water-supply watershed. WS-II and WS-IV water-supply watersheds are located south and southeast of the project area, respectively.

Item 9. Have any Section 404 permits been previously requested for use on this property? [YES] If yes, explain.

Work along the Boone Creek channel associated with Phase 1 of the ASU Boiler Plant Facility (*upstream of the Phase 2 Boiler Plant work and Convocation Center site*) was determined to require a US Army COE Nationwide 26 permit. The NWP 26 for Phase 1 was requested in June 1995. The channel restoration work associated with Phase 2 of the Boiler Plant project will also require a NWP 26. The permit for the Phase 2 work was requested on February 26, 1996.

It is not known if any Section 404 permits have been previously requested for use on the *specific Convocation Center project site* along Boone Creek, however.

Item 10. Estimated total number of acres of waters of the US, including wetlands, located on project site:

Approximately 0.31 acre of "waters of the US" located on the project site along Boone Creek. (*See item 11 for more detail and discussion.*)

The US Army COE has determined (Mr. Steve Chapin, Asheville Field Office) that *no wetlands* exist on the proposed project site (reference is made to COE letter dated September 8, 1995, Action ID. 199504607, Pre-Application, and a project coordination meeting at ASU on February 22, 1996.) Therefore, a wetlands delineation will not be applicable to this project.

Item 11. Number of acres of waters of the US, including wetlands, impacted by the proposed project:

Filled: *Approximately 0.31 acre
Drained: not applicable
Flooded: not applicable
Excavated: not applicable
Total Impacted: *Approximately 0.31 acre

**Note: A culvert system of 800 linear feet (+/-) is proposed for Boone Creek to accommodate the planned NCDOT widening of US 321 and facilitate development of the Convocation Center. However, only 450 feet of the stream is currently in an open channel condition. A typical bank-to-bank top channel width for the existing open channel section is approximately 30 feet or less. The width of the ordinary high water level along the stream is also 30 feet or less. Also, no wetlands are located in the project area.*

Using these parameters for calculation of area, the estimate of total impact to "waters of the US" along Boone Creek is approximately 0.31 acre. This is determined from the 450 linear ft of existing open channel stream and the 30 ft maximum width of the ordinary high water level (450' x 30' = 13,500 sq ft; 13,500 sq ft / 43,560 sq ft per acre = 0.31 acre). This methodology for determining total area of impact to waters of the US is based upon discussions with Mr. Steve Chapin (US Army COE) and confirmed by Mr. John Dorney (NC DEM, Raleigh Central Office) in a telephone conversation with Scott Bryant (Ogden) February 19, 1996. Mr. Dorney further noted that if the impacted area is equal to or less than one-third of an acre, a written approval from DEM is not required for the project.

Item 12. Description of Proposed Work: (See site plans attached)

The proposed work involves the development of a multi-purpose Convocation Center facility at Appalachian State University. The planned NCDOT widening of US 321, in conjunction with site placement of the Convocation Center facility, requires that a 450 ft section of Boone Creek open channel be placed into a culvert system.

Item 13. Purpose of Proposed Work:

The "Appalachian Convocation Center" will serve as a multi-purpose place of assembly for university convocations, concerts, public speakers, various sports tournaments, training camps, family entertainment shows, conventions, trade association events and exhibits. This facility will serve the Town of Boone and the region, in addition to the University.

Approximately 27% of the Convocation Center's floor area is dedicated to academic program space for the ASU Health Leisure and Exercise Science department. The academic area will include faculty offices, classrooms, special instructional spaces, and research labs.

Item 14. State reasons why the applicant believes this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts.

As noted above, the proposed activity does *not* involve any disturbance of wetlands. The project will involve the culverting of approximately 0.31 acre of "waters of the US" along Boone Creek. The impact to waters of the US will be minimal, however, because some of the stream is already in culvert.

In order to successfully widen US 321 and develop the Convocation Center site, the proposed fill and culverting is necessary. The fill will place the site at an elevation above the 100-year base flood level to protect the building and adjacent facilities.

Land use adjacent to the existing reach of Boone Creek open channel is typically urban and includes Blowing Rock Road (US 321), Boone commercial development, Rivers Street, some residential development, and University tennis courts. Therefore, the proposed fill and culverting of the site and stream will not significantly change the nature of the setting nor degrade existing uses.

With regards to adjacent projects, ASU has prepared design plans to remove the approximate 960 ft run of culvert immediately upstream from the Convocation Center and restore this area with a "natural mountain stream" concept. The Boone Creek culvert that will be removed begins at Hardin Street near the ASU boiler facility and exits just below ASU Lackey Baseball Field in the proposed Convocation Center site area. As part of the Boone Creek restoration, Lackey Field will also be relocated to another part of the ASU campus. All of this described upstream work is associated with the ASU Phase 2 Boiler Plant Project and includes the realignment of Rivers Street with US 321 immediately upstream of the Convocation Center site. The 404 application for the Phase 2 work was submitted to the Corps of Engineers on February 26, 1996.

In sum, the planned widening of US 321 and site placement of the Convocation Center will require the filling and culverting of approximately 0.31 acre or less of "waters of the US" along Boone Creek. With the constraints of these two projects, the proposed culverting is the only practical option for the stream.

Items 15 and 16. Required Contacts:

***U.S. Fish and Wildlife Service (USFWS)
Raleigh Field Office***

Contacted: Ms. Sonja Wilson via telephone call on February 6, 1996

Comments: U.S. Fish and Wildlife Service requested a copy of the Joint 401/404 application form. Upon receipt of a copy of the Joint form, they will reply. Ogden Environmental, on behalf of ASU, will forward a copy of this application to USFWS.

***National Marine Fisheries Service (NMFS)
Habitat Conservation Division***

Contacted: Ms. Arlene Bossie via telephone call on February 6, 1996

Comments: The phone call satisfies the contact requirements. The office will receive a copy of the Joint form from the COE and/or DEM (one of the 7 copies required).

***State Historic Preservation Office (SHPO)
N.C. Division of Archives and History***

Contacted: Ms. Renee Gladdhill-Erly via telephone call on February 6, 1996

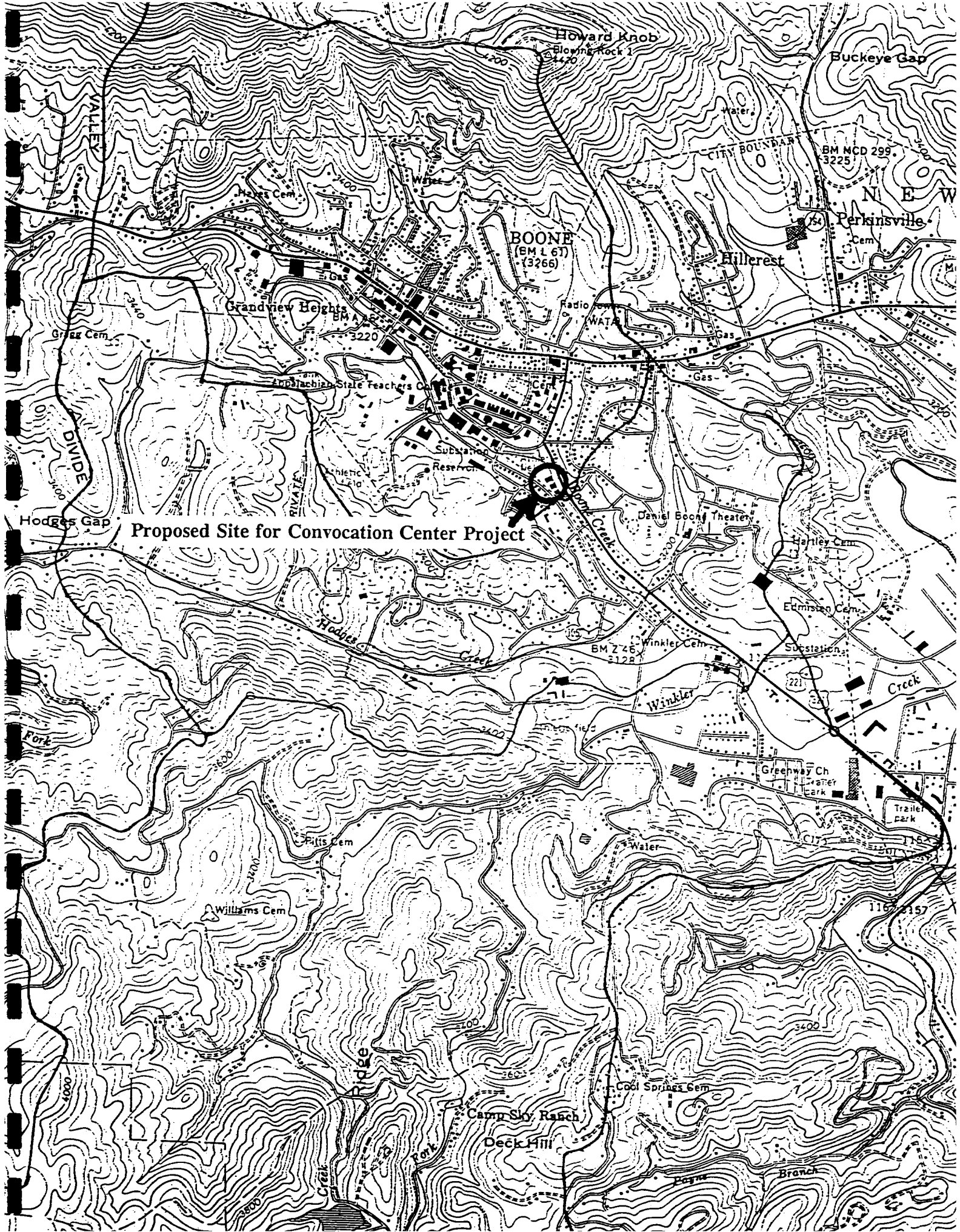
Comments: One of the 7 copies goes to the SHPO for review. The phone call satisfies the contact requirement on the joint application form.

Item 17. Additional information for NC DEM:

- A. No wetlands are located on the site. See provided site plans/maps for detail on location of Boone Creek (see Attachments 1 and 2).
- B. Photos of the project site are provided herein (see Attachment 3).
- C. N/A
- D. The schematic drawings included herein (see Attachment 2) show the proposed grading and drainage plan for the project.
- E. Land use of the surrounding property is urban development consisting of university and Boone commercial area.
- F. The Convocation Center development will tie-in to the local POTW for sanitary sewage disposal (see Attachment 2 for utility plan).

ATTACHMENT 1

USGS "BOONE,NC" QUADRANGLE SHOWING SITE AREA

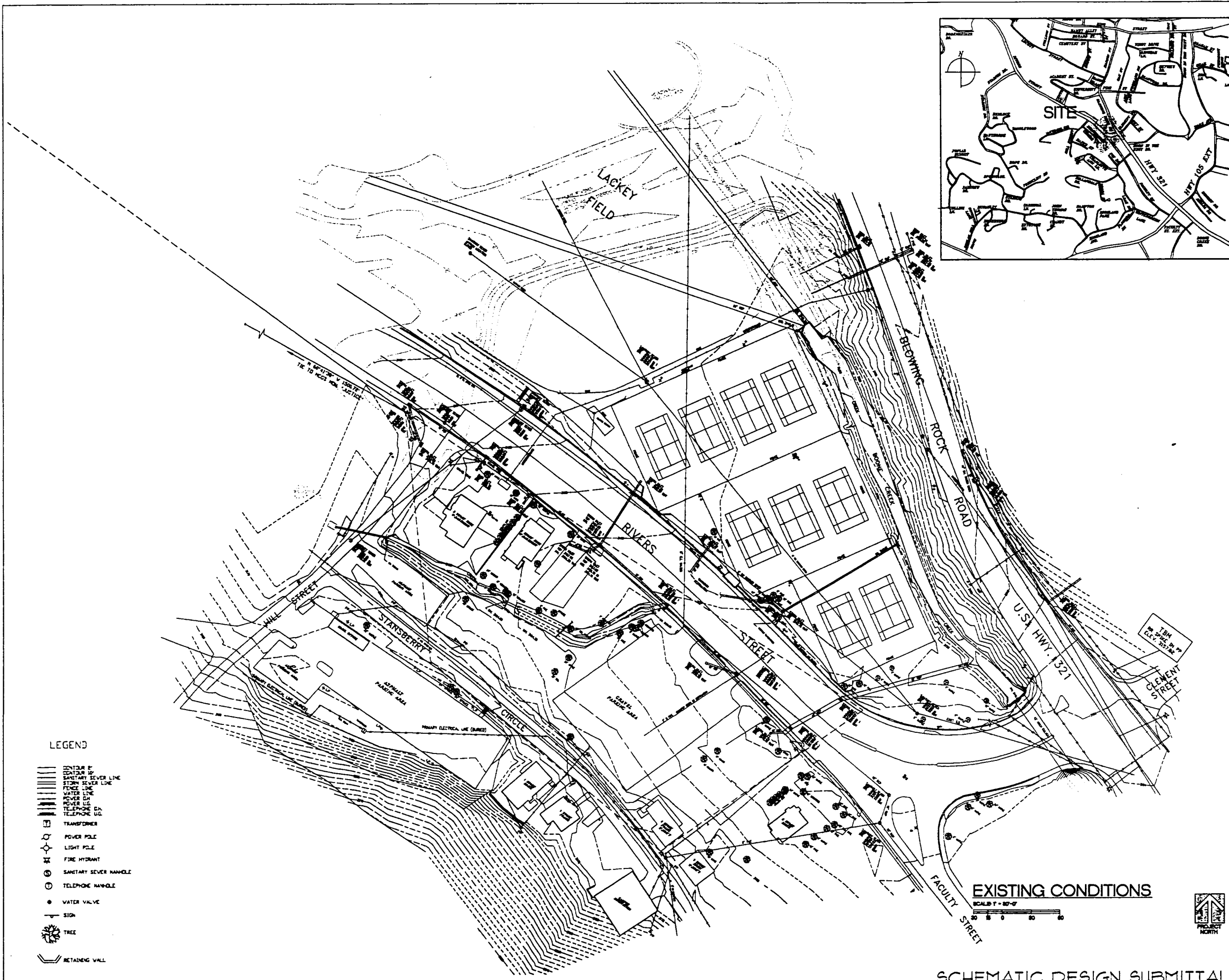


Proposed Site for Convocation Center Project



ATTACHMENT 2

SITE PLANS

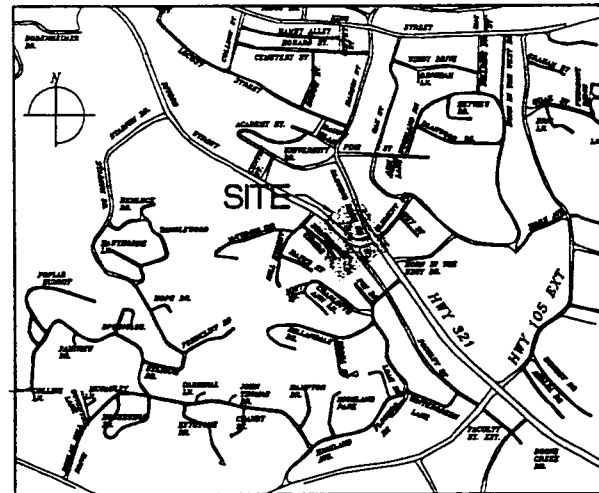


LEGEND

- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- POWER LINE
- TELEPHONE LINE
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- WATER VALVE
- SIGN
- TREE
- RETAINING WALL

EXISTING CONDITIONS
SCALE 1" = 80'-0"

SCHEMATIC DESIGN SUBMITTAL

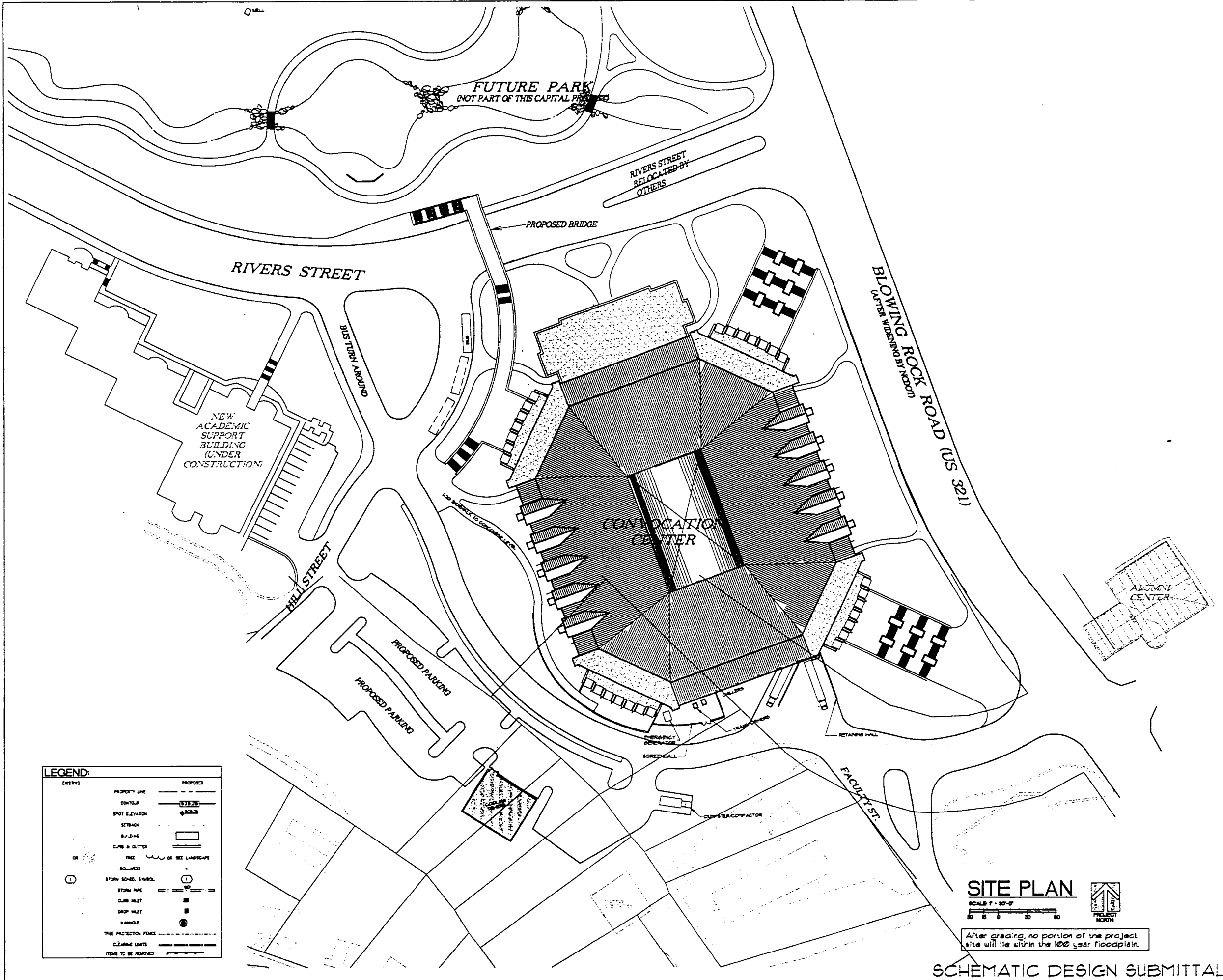


HAKAN CORLEY REDFOOT ZACK
ARCHITECTS - ENGINEERS - PLANNERS
PO BOX 13144, CHAPEL HILL, NORTH CAROLINA 27515-3144

Appalachian STATE UNIVERSITY
Appalachian Convocation Center
Boone, N. C.

no.	revisions

<p>DATE: 07/27/96 SCALE: 1" = 80'-0"</p>	
<p>Drawn MJB</p>	<p>Checked MJB</p>
<p>EXISTING CONDITIONS</p>	
<p>Sheet C-1</p>	
<p>of 3 total 1</p>	
<p>Project no. 9434</p>	
<p>Date 1/20/96</p>	



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
TRACK	TRACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE OR TREE LANDSCAPE	TREE OR TREE LANDSCAPE
BOLLARD	BOLLARD
STORM SEWER SYMBOL	STORM SEWER SYMBOL
STORM PIPE	STORM PIPE
CLUB INLET	CLUB INLET
SHOP INLET	SHOP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

SITE PLAN
 SCALE 1" = 20'-0"
 0 10 20 30 40
 NORTH

After grading, no portion of the project site will lie within the 100 year floodplain.

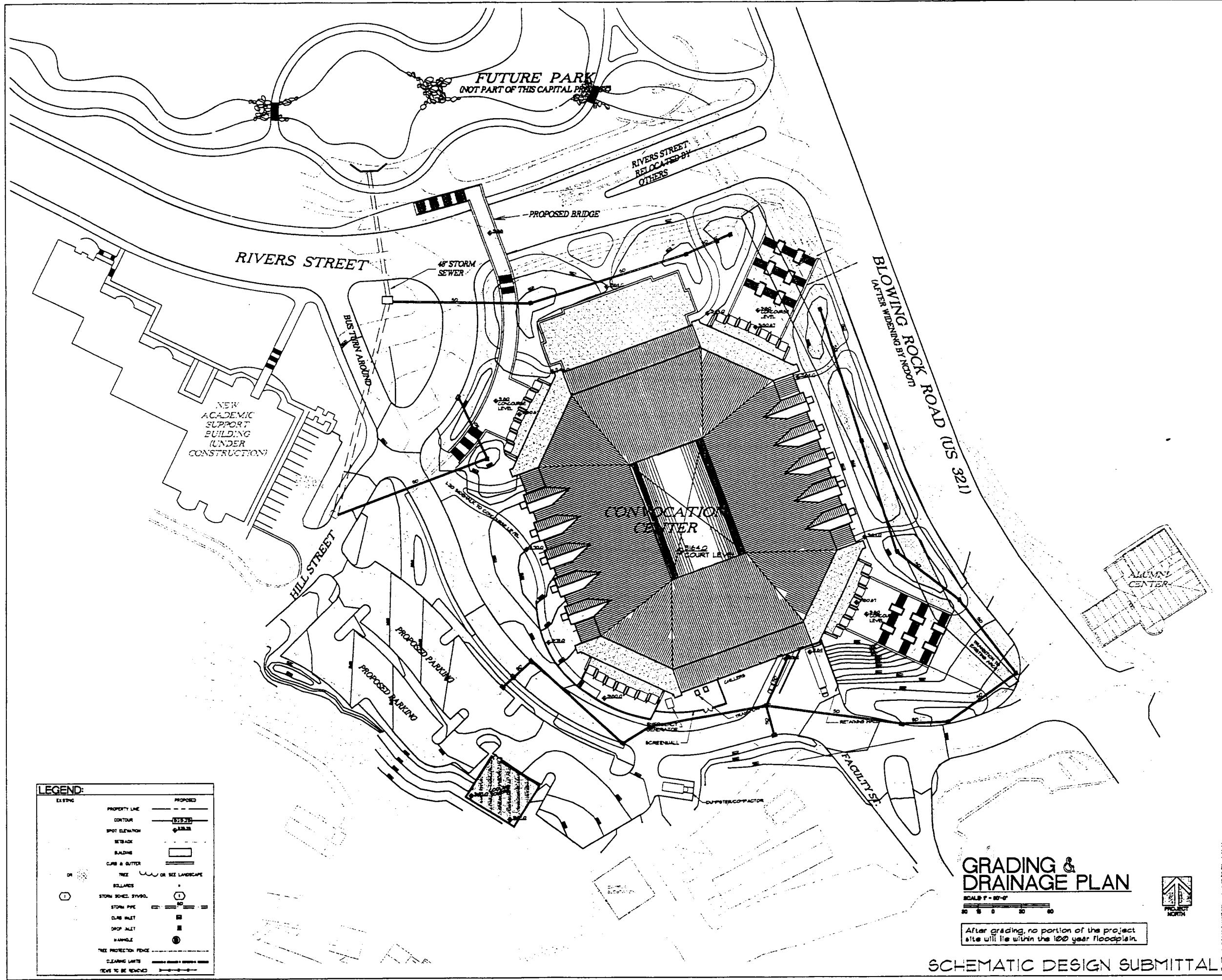
SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • PLANNERS
 20200 15th, Chapel Hill, North Carolina 27514-1000

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

drawn: MJB checked: MJB
 SHEET: SCHEMATIC SITE PLAN
 sheet: C-2
 of 3 total 1
 project no. 9434
 date 1/20/94



LEGEND:

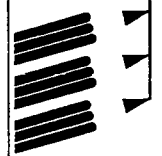
EXISTING	PROPOSED
PROPERTY LINE	---
CONTOUR	---(1)---
SPOT ELEVATION	① 12.25
SETBACK	---
BUILDING	▭
CLUB & GUTTER	---
TREE	○ OR SEE LANDSCAPE
BELLWALL	+
STORM SCHED. SYMBOL	①
STORM PIPE	---
CLUB INLET	⊠
DROP INLET	⊞
MANHOLE	⊙
TREE PROTECTION FENCE	---
CLEARING LIMIT	---
TREES TO BE REMOVED	---

GRADING & DRAINAGE PLAN
 SCALE 1" = 50'-0"
 0 10 20 30 40

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

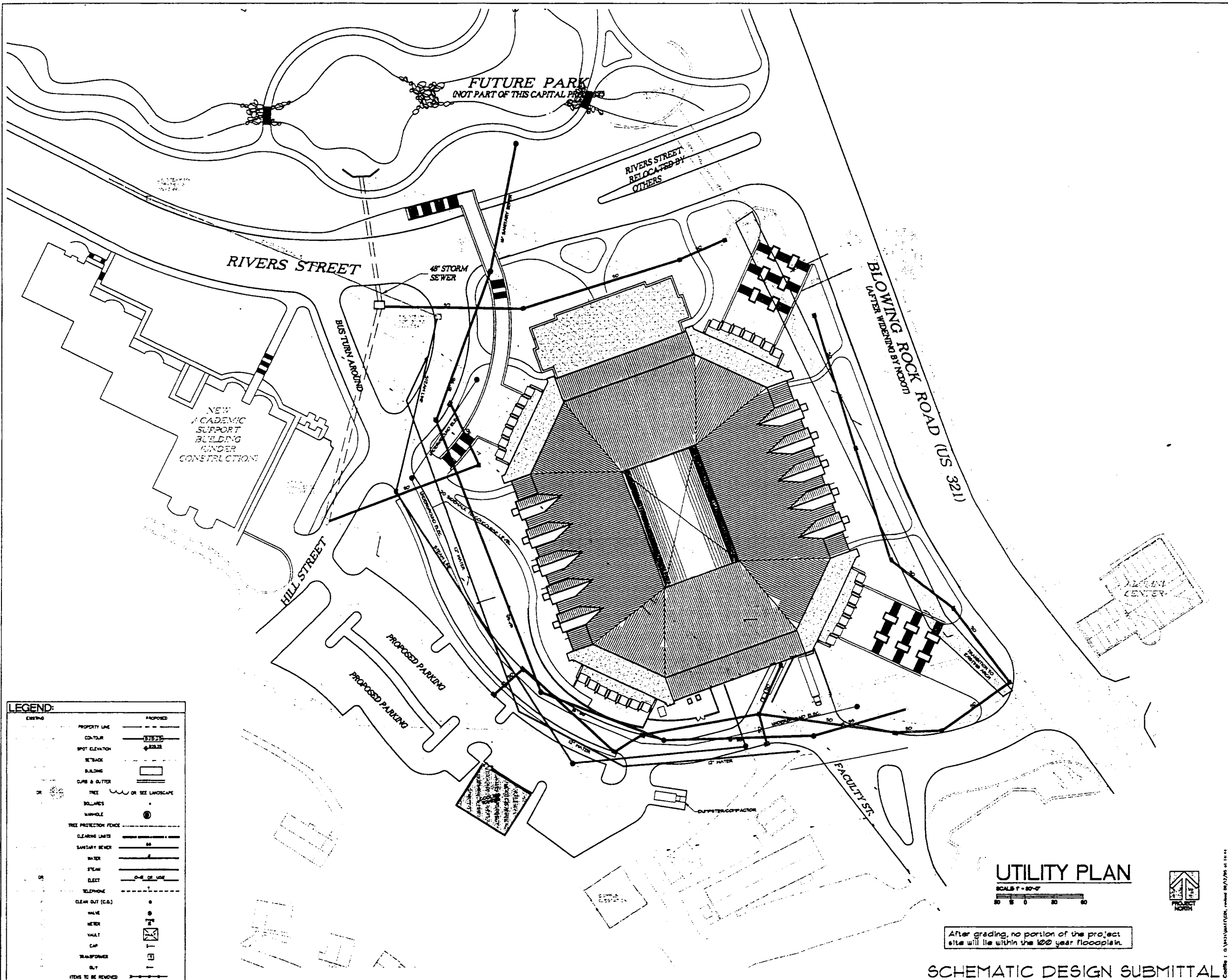
HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • ENGINEERS • PLANNERS
 1000 W. 10th Street, Suite 200, Boone, NC 28604
 828-261-1111



Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

DATE: 07/17/04
 DRAWN: MRM
 CHECKED: MRM
SCHEMATIC GRADING PLAN
 SHEET: C-3
 OF 3 TOTAL 1
 PROJECT NO. 934
 DATE 1004



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOLLARDS	BOLLARDS
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
SANITARY SEWER	SANITARY SEWER
WATER	WATER
STEAM	STEAM
ELECT	ELECT
TELEPHONE	TELEPHONE
CLEAN OUT (C.O.)	CLEAN OUT (C.O.)
VALVE	VALVE
METER	METER
WALF	WALF
CAP	CAP
TRANSFORMER	TRANSFORMER
BLT	BLT
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

UTILITY PLAN
 SCALE 1" = 80'-0"
 0 20 40 60 80

After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS - ENGINEERS - PLANNERS
 1000 W. 10th Street, Boone, NC 28601

Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

NO. REVISIONS

DATE: 01/27/2011
 DRAWN BY: MJB
 CHECKED BY: MJB
SCHEMATIC UTILITY PLAN
 SHEET
C-4
 OF 3 TOTAL
 PROJECT NO. 1004
 DATE 1/27/11

ATTACHMENT 3

PHOTOGRAPHS OF THE SITE

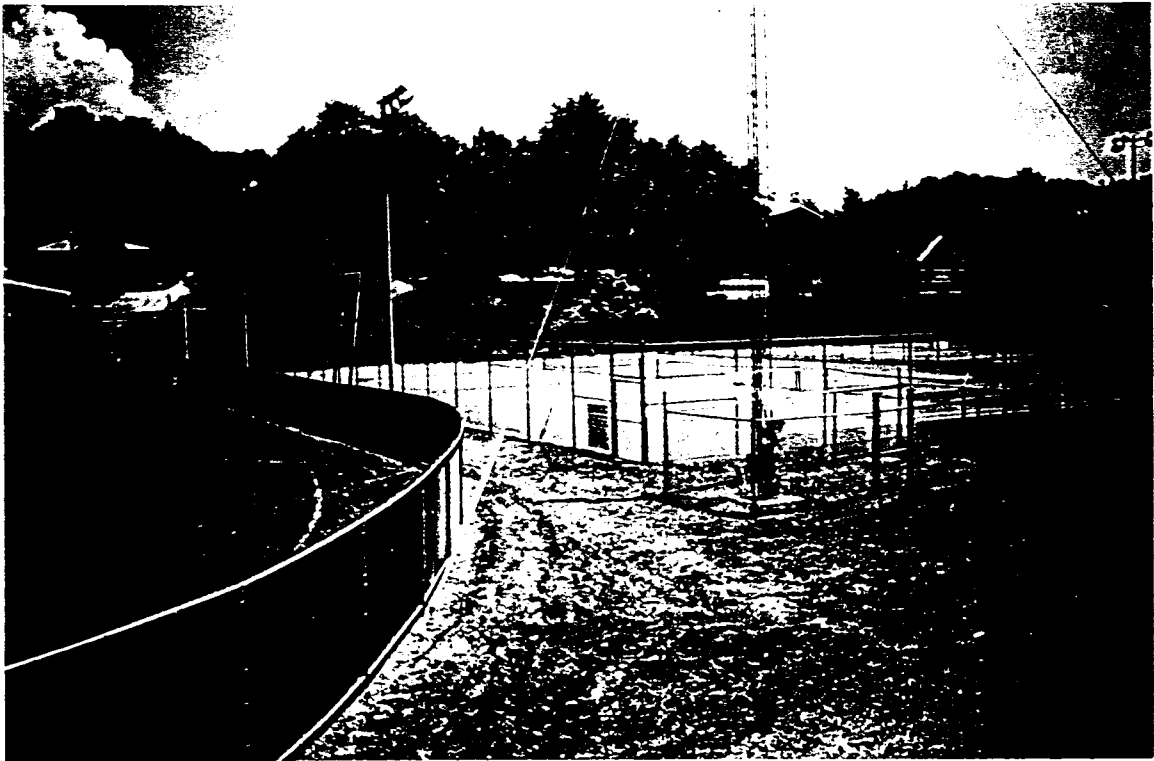


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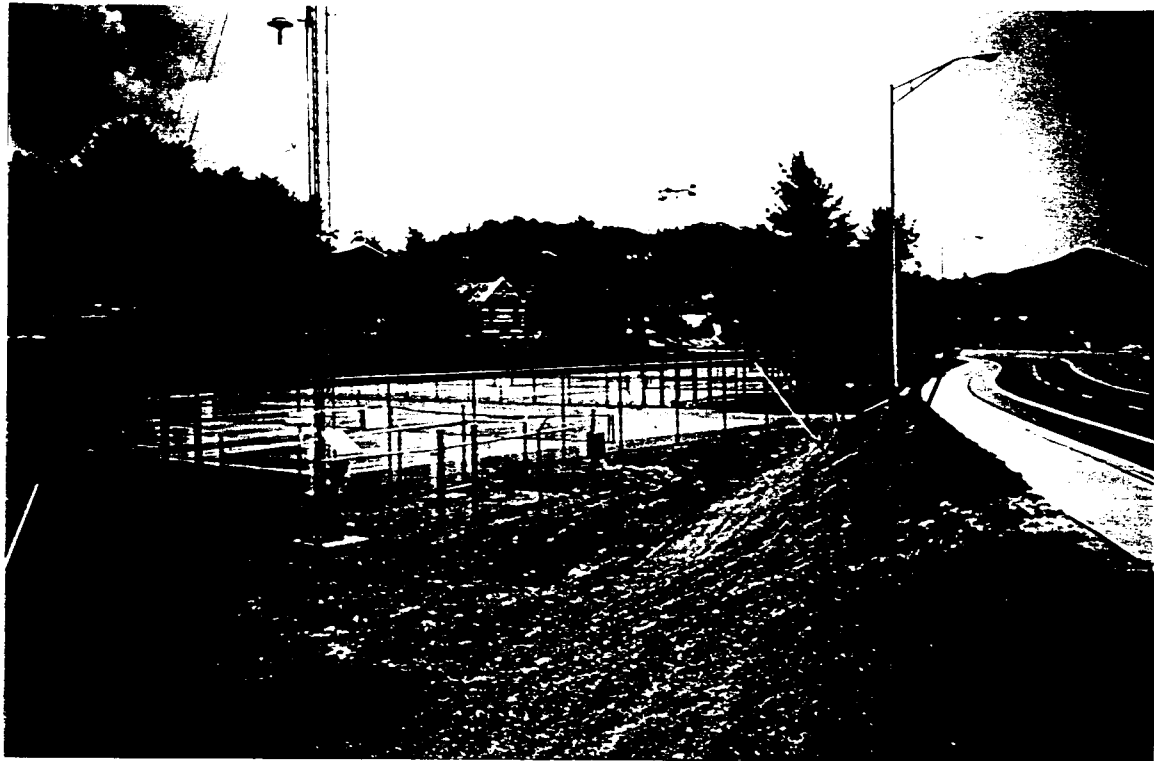


Photo 2. Proposed site area showing ASU tennis courts and Rivers Street.



Photo 3. Looking downstream along Boone Creek open channel in proposed site area.



Photo 4. Looking downstream at arch culvert under Rivers Street at US 321. Note ASU tennis courts adjacent to Boone Creek channel.



APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide
Permit
(Nationwide Permit #26)*

Prepared for:
Hakan Corley Redfoot Zack, Inc.
Post Office Box 2368
Chapel Hill, North Carolina 27515

Prepared by:
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One Centerview Drive, Suite 203
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March 29, 1996

APPALACHIAN STATE UNIVERSITY
Boone, North Carolina

Appalachian Convocation Center Project

*Joint Form Application for Section 404 Nationwide Permit
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Ogden Environmental and Engineering Services
One Centerview Drive, Suite 203
Greensboro, North Carolina 27407

March 29, 1996

DEM ID: _____

ACTION ID: _____

Nationwide Permit Requested (Provide Nationwide Permit #): 26

JOINT FORM FOR

Nationwide permits that require notification to the Corps of Engineers
Nationwide permits that require application for Section 401 certification

WILMINGTON DISTRICT ENGINEER
CORPS OF ENGINEERS
DEPARTMENT OF THE ARMY
P.O. Box 1890
Wilmington, NC 28402-1890
ATTN: CESA-W-CO-E
Telephone (919) 251-4511

DIVISION OF ENVIRONMENTAL MANAGEMENT
NC DEPARTMENT OF ENVIRONMENT, HEALTH,
AND NATURAL RESOURCES
ENVIRONMENTAL SCIENCES BRANCH
4401 Reedy Creek Road
Raleigh, N.C. 27607
ATTN: MR. JOHN DORNEY
Telephone (919) 733-1786

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PLEASE PRINT.

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2. Owners Address: Appalachian State University, Boone, North Carolina 28608

3. Owners Phone Number (Home): N/A (Work): (704) 262-2000
(main number)

4. If Applicable: Agent's name or responsible corporate official, address, phone number:

Dr. Clyde Robbins, Associate Vice Chancellor, Physical Operations

Appalachian State University, 265 Dale Street, Boone, NC 28608

Office Phone Number: 704-262-4961

5. Location of work (MUST ATTACH MAP). County: Watauga

Nearest Town or City: Town of Boone

Specific Location (Include road numbers, landmarks, etc.): Along Boone Creek and floodplain

just below existing ASU Lackey Baseball Field and above the intersection of
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6. Name of Closest Stream/River: Boone Creek

7. River Basin: New River Basin

8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? YES NO *

9. Have any Section 404 permits been previously requested for use on this property? YES NO

If yes, explain. NWP26 for Phase 1 Boiler Plant requested June 1995; NWP26 for Phase 2 Boiler
Plant requested February 26, 1996.

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11. Number of acres of waters of the U.S., including wetlands, impacted by the proposed project:

Filled: 0.31 acre

Drained: N/A

Flooded: N/A

Excavated: N/A

Total Impacted: 0.31 acre

* Classified as "trout" by NC DEM

12. Description of proposed work (Attach PLANS-8 1/2" X 11" drawings only): Fill and culvert installation for 450 ft. of existing Boone Creek open channel.


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RESPONSES FROM THE USFWS AND/OR NMFS SHOULD BE FORWARDED TO CORPUS.

16. You are required to contact the State Historic Preservation Officer (SHPO) regarding the presence of historic properties in the permit area which may be affected by the proposed project? Have you done so? YES [X] NO []
RESPONSE FROM THE SHPO SHOULD BE FORWARDED TO CORPUS.

17. Additional information required by DEM:
- A. Wetland delineation map showing all wetlands, streams, and lakes on the property. No wetlands. Attached maps show water features
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 - E. What is land use of surrounding property? Urban development (ASU, Boone commercial area)
 - F. If applicable, what is proposed method of sewage disposal? Tie-in to POTW.


Owner's Signature

April 2, 1996
Date

SUPPLEMENTAL INFORMATION FOR JOINT 401/404 APPLICATION

Project: *Appalachian State University (ASU)/Appalachian Convocation Center*

Section 404 Nationwide Permit Requested: *NWP #26*

Section 401 General Water Quality Certification Requested: *GC #2671*

Application Information:

Item 1. Owners Name:

Appalachian State University, State of North Carolina

Item 2. Owners Address:

Appalachian State University, Boone, North Carolina (see item 4)

Item 3. Owners Phone Number:

Appalachian State University, Main Phone: 704-262-2000 (see item 4)

Item 4. Owner Representative, Address, and Phone Number:

Dr. Clyde Robbins
Associate Vice Chancellor, Physical Operations
Appalachian State University
265 Dale Street
Boone, North Carolina 28608
Phone: 704-262-4961

Item 5. Location of work: (See maps and plans provided as Attachments 1 and 2)

Maps include: USGS "Boone, NC" quadrangle and site plans

County: Watauga County, North Carolina

Nearest Town or City: Town of Boone

Specific Location: Along Boone Creek and floodplain just below the existing ASU Lackey Baseball Field and above the intersection of existing Rivers Street and US 321 (Blowing Rock Road) at the ASU main entrance.

Item 6. Name of Closest Stream/River:

Stream: Boone Creek

Item 7. River Basin:

New River Basin. Boone Creek feeds into Winkler Creek which discharges into the South Fork of the New River.

Item 8. Is this project located in a watershed classified as Trout, SA, HQW, ORW, WS I, or WS II? [YES]

Stream Class: Class C - Trout, Special Waters, "+" NC DEM designation (information obtained from Mr. Ron Linville, Winston-Salem Regional DEM Office).

Watershed: Project is *not* located within a State designated water-supply watershed. WS-II and WS-IV water-supply watersheds are located south and southeast of the project area, respectively.

Item 9. Have any Section 404 permits been previously requested for use on this property? [YES] If yes, explain.

Work along the Boone Creek channel associated with Phase 1 of the ASU Boiler Plant Facility (*upstream of the Phase 2 Boiler Plant work and Convocation Center site*) was determined to require a US Army COE Nationwide 26 permit. The NWP 26 for Phase 1 was requested in June 1995. The channel restoration work associated with Phase 2 of the Boiler Plant project will also require a NWP 26. The permit for the Phase 2 work was requested on February 26, 1996.

It is not known if any Section 404 permits have been previously requested for use on the *specific Convocation Center project site* along Boone Creek, however.

Item 10. Estimated total number of acres of waters of the US, including wetlands, located on project site:

Approximately 0.31 acre of "waters of the US" located on the project site along Boone Creek. (*See item 11 for more detail and discussion.*)

The US Army COE has determined (Mr. Steve Chapin, Asheville Field Office) that *no wetlands* exist on the proposed project site (reference is made to COE letter dated September 8, 1995, Action ID. 199504607, Pre-Application, and a project coordination meeting at ASU on February 22, 1996.) Therefore, a wetlands delineation will not be applicable to this project.

Item 11. Number of acres of waters of the US, including wetlands, impacted by the proposed project:

Filled: *Approximately 0.31 acre
Drained: not applicable
Flooded: not applicable
Excavated: not applicable
Total Impacted: *Approximately 0.31 acre

**Note: A culvert system of 800 linear feet (+/-) is proposed for Boone Creek to accommodate the planned NCDOT widening of US 321 and facilitate development of the Convocation Center. However, only 450 feet of the stream is currently in an open channel condition. A typical bank-to-bank top channel width for the existing open channel section is approximately 30 feet or less. The width of the ordinary high water level along the stream is also 30 feet or less. Also, no wetlands are located in the project area.*

Using these parameters for calculation of area, the estimate of total impact to "waters of the US" along Boone Creek is approximately 0.31 acre. This is determined from the 450 linear ft of existing open channel stream and the 30 ft maximum width of the ordinary high water level (450' x 30' = 13,500 sq ft; 13,500 sq ft / 43,560 sq ft per acre = 0.31 acre). This methodology for determining total area of impact to waters of the US is based upon discussions with Mr. Steve Chapin (US Army COE) and confirmed by Mr. John Dorney (NC DEM, Raleigh Central Office) in a telephone conversation with Scott Bryant (Ogden) February 19, 1996. Mr. Dorney further noted that if the impacted area is equal to or less than one-third of an acre, a written approval from DEM is not required for the project.

Item 12. Description of Proposed Work: (See site plans attached)

The proposed work involves the development of a multi-purpose Convocation Center facility at Appalachian State University. The planned NCDOT widening of US 321, in conjunction with site placement of the Convocation Center facility, requires that a 450 ft section of Boone Creek open channel be placed into a culvert system.

Item 13. Purpose of Proposed Work:

The "Appalachian Convocation Center" will serve as a multi-purpose place of assembly for university convocations, concerts, public speakers, various sports tournaments, training camps, family entertainment shows, conventions, trade association events and exhibits. This facility will serve the Town of Boone and the region, in addition to the University.

Approximately 27% of the Convocation Center's floor area is dedicated to academic program space for the ASU Health Leisure and Exercise Science department. The academic area will include faculty offices, classrooms, special instructional spaces, and research labs.

Item 14. State reasons why the applicant believes this activity must be carried out in wetlands. Also, note measures taken to minimize wetland impacts.

As noted above, the proposed activity does *not* involve any disturbance of wetlands. The project will involve the culverting of approximately 0.31 acre of "waters of the US" along Boone Creek. The impact to waters of the US will be minimal, however, because some of the stream is already in culvert.

In order to successfully widen US 321 and develop the Convocation Center site, the proposed fill and culverting is necessary. The fill will place the site at an elevation above the 100-year base flood level to protect the building and adjacent facilities.

Land use adjacent to the existing reach of Boone Creek open channel is typically urban and includes Blowing Rock Road (US 321), Boone commercial development, Rivers Street, some residential development, and University tennis courts. Therefore, the proposed fill and culverting of the site and stream will not significantly change the nature of the setting nor degrade existing uses.

With regards to adjacent projects, ASU has prepared design plans to remove the approximate 960 ft run of culvert immediately upstream from the Convocation Center and restore this area with a "natural mountain stream" concept. The Boone Creek culvert that will be removed begins at Hardin Street near the ASU boiler facility and exits just below ASU Lackey Baseball Field in the proposed Convocation Center site area. As part of the Boone Creek restoration, Lackey Field will also be relocated to another part of the ASU campus. All of this described upstream work is associated with the ASU Phase 2 Boiler Plant Project and includes the realignment of Rivers Street with US 321 immediately upstream of the Convocation Center site. The 404 application for the Phase 2 work was submitted to the Corps of Engineers on February 26, 1996.

In sum, the planned widening of US 321 and site placement of the Convocation Center will require the filling and culverting of approximately 0.31 acre or less of "waters of the US" along Boone Creek. With the constraints of these two projects, the proposed culverting is the only practical option for the stream.

Items 15 and 16. Required Contacts:

***U.S. Fish and Wildlife Service (USFWS)
Raleigh Field Office***

Contacted: Ms. Sonja Wilson via telephone call on February 6, 1996

Comments: U.S. Fish and Wildlife Service requested a copy of the Joint 401/404 application form. Upon receipt of a copy of the Joint form, they will reply. Ogden Environmental, on behalf of ASU, will forward a copy of this application to USFWS.

***National Marine Fisheries Service (NMFS)
Habitat Conservation Division***

Contacted: Ms. Arlene Bossie via telephone call on February 6, 1996

Comments: The phone call satisfies the contact requirements. The office will receive a copy of the Joint form from the COE and/or DEM (one of the 7 copies required).

***State Historic Preservation Office (SHPO)
N.C. Division of Archives and History***

Contacted: Ms. Renee Gladdhill-Erly via telephone call on February 6, 1996

Comments: One of the 7 copies goes to the SHPO for review. The phone call satisfies the contact requirement on the joint application form.

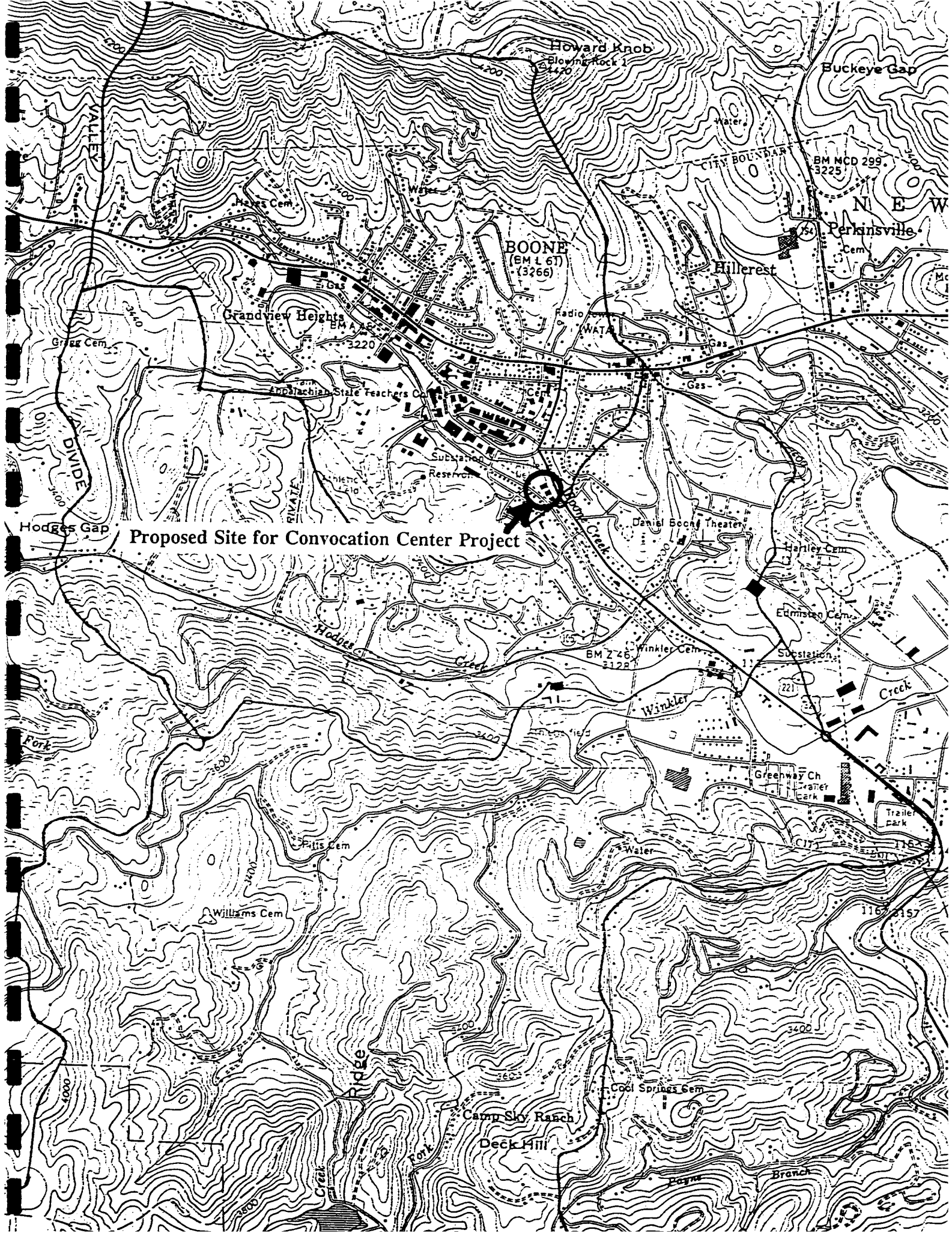
Item 17. Additional information for NC DEM:

- A. No wetlands are located on the site. See provided site plans/maps for detail on location of Boone Creek (see Attachments 1 and 2).
- B. Photos of the project site are provided herein (see Attachment 3).
- C. N/A
- D. The schematic drawings included herein (see Attachment 2) show the proposed grading and drainage plan for the project.
- E. Land use of the surrounding property is urban development consisting of university and Boone commercial area.
- F. The Convocation Center development will tie-in to the local POTW for sanitary sewage disposal (see Attachment 2 for utility plan).

ATTACHMENT 1

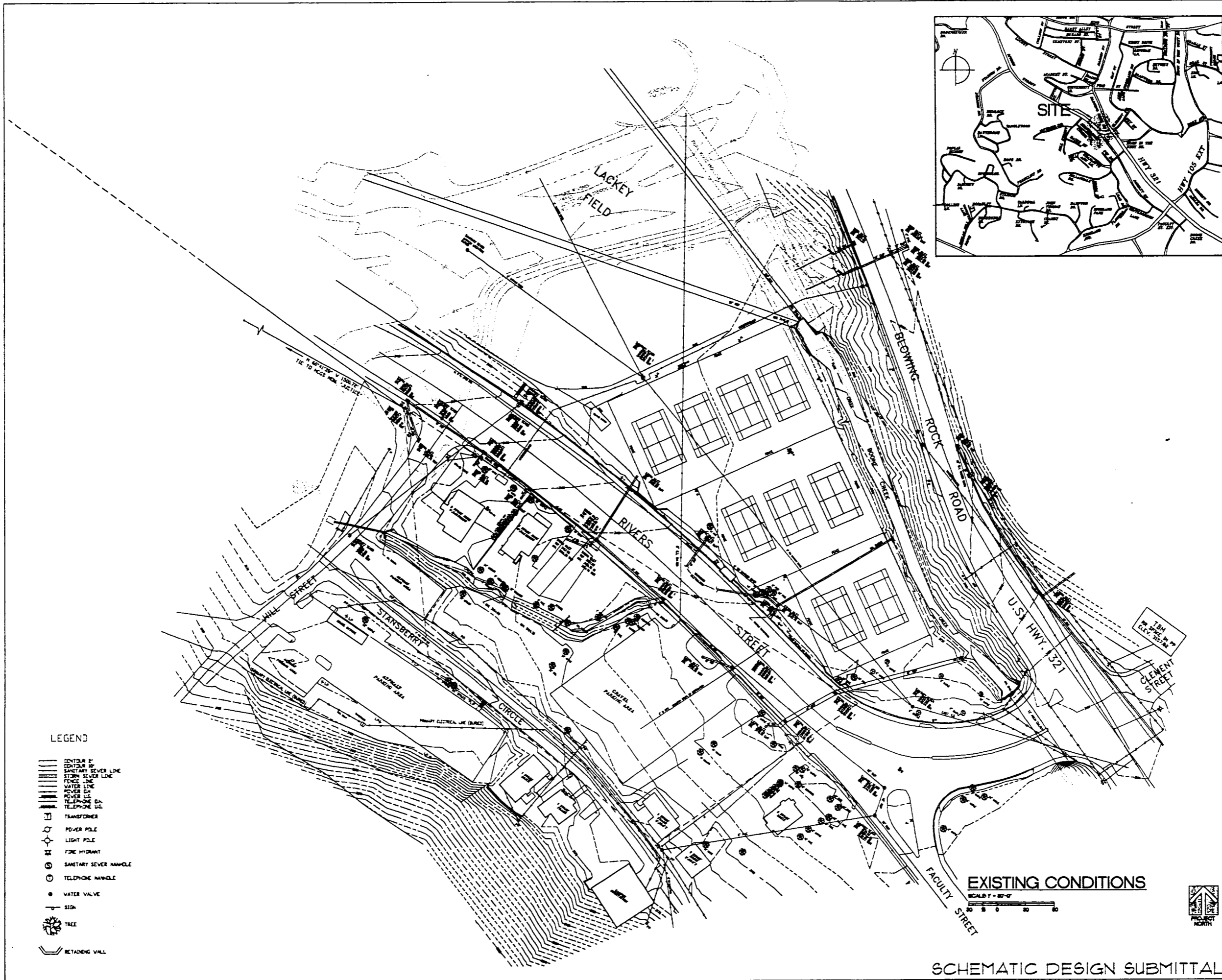
USGS "BOONE,NC" QUADRANGLE SHOWING SITE AREA

















Proposed Site for Convocation Center Project

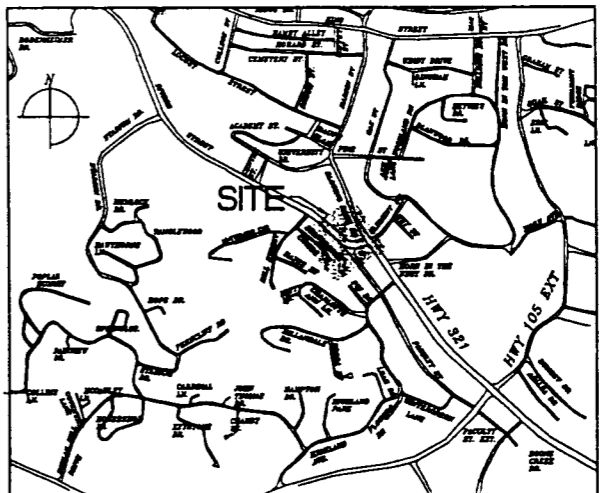


ATTACHMENT 2

SITE PLANS



- LEGEND
-  20' DIA. CONCRETE PIPE
 -  18" DIA. SANITARY SEWER LINE
 -  24" DIA. STORM SEWER LINE
 -  12" DIA. GAS LINE
 -  12" DIA. WATER MAIN
 -  TELEPHONE LINE
 -  TRANSFORMER
 -  POWER POLE
 -  LIGHT POLE
 -  FIRE HYDRANT
 -  SANITARY SEWER MANHOLE
 -  TELEPHONE MANHOLE
 -  WATER VALVE
 -  SIGN
 -  TREE
 -  RETAINING WALL



EXISTING CONDITIONS
 SCALE 1" = 30'-0"
 0 10 20 30 40

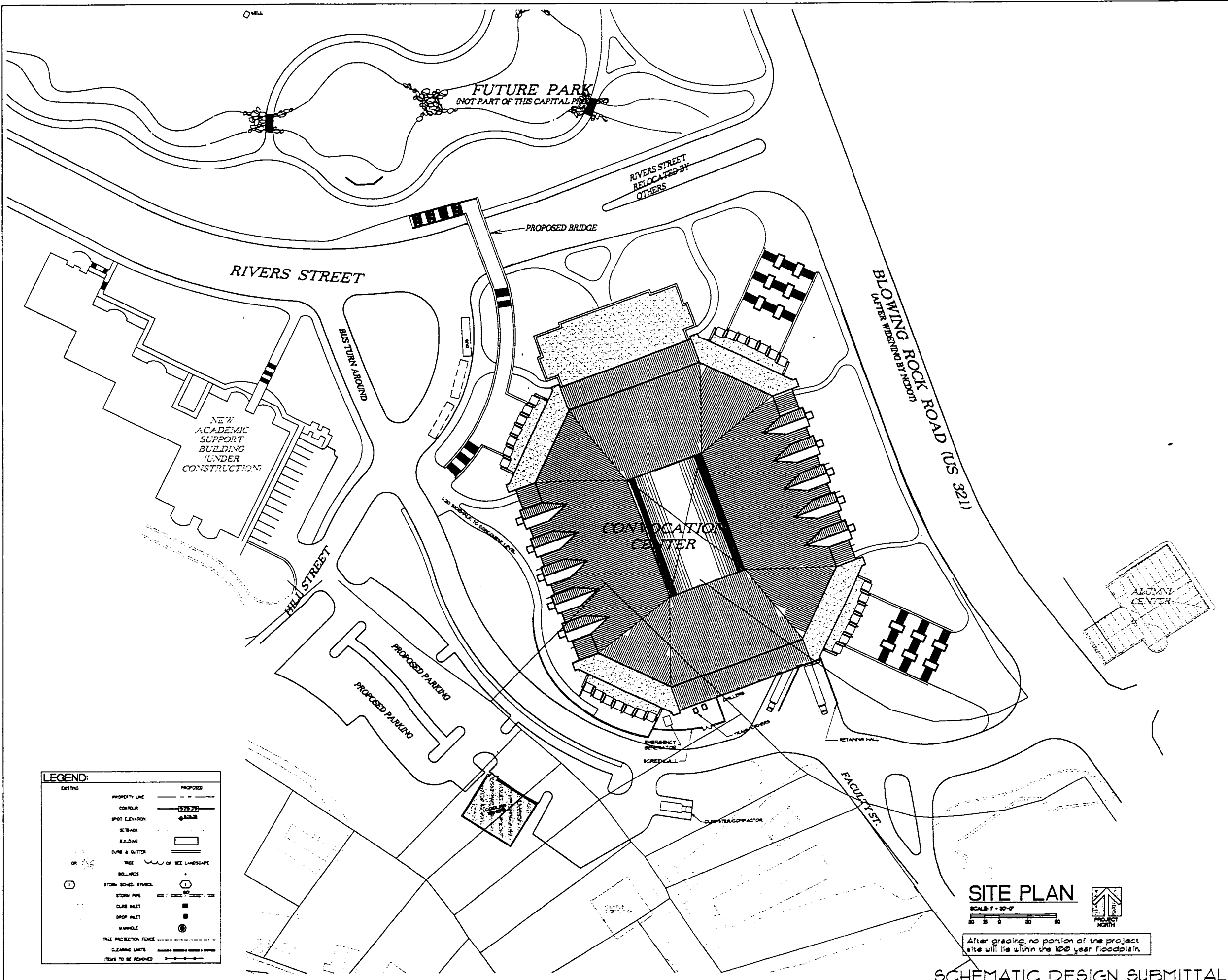
HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS - ENGINEERS - PLANNERS
 P.O. Box 3346, Charlotte, N.C. 28216
 Phone 336-381-1111, South Carolina 803-543-1444

Appalachian
 STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

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Project No. 9484	
Date 1/20/86	

SCHEMATIC DESIGN SUBMITTAL



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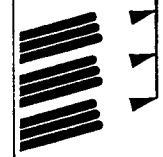
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PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE
BOLLARDS	BOLLARDS
STORM SCHED SYMBOL	STORM SCHED SYMBOL
STORM PIPE	STORM PIPE
CLUB INLET	CLUB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
ROADS TO BE ADJUSTED	ROADS TO BE ADJUSTED

SITE PLAN
 SCALE 1" = 30'-0"
 0 10 20 30 40
 PROJECT NORTH

After grading, no portion of the project site will lie within the 100 year floodplain.

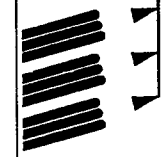
SCHMATIC DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
 ARCHITECTS • PLANNERS • ENGINEERS
 100 West 11th, Chapel Hill, North Carolina 27514-7000



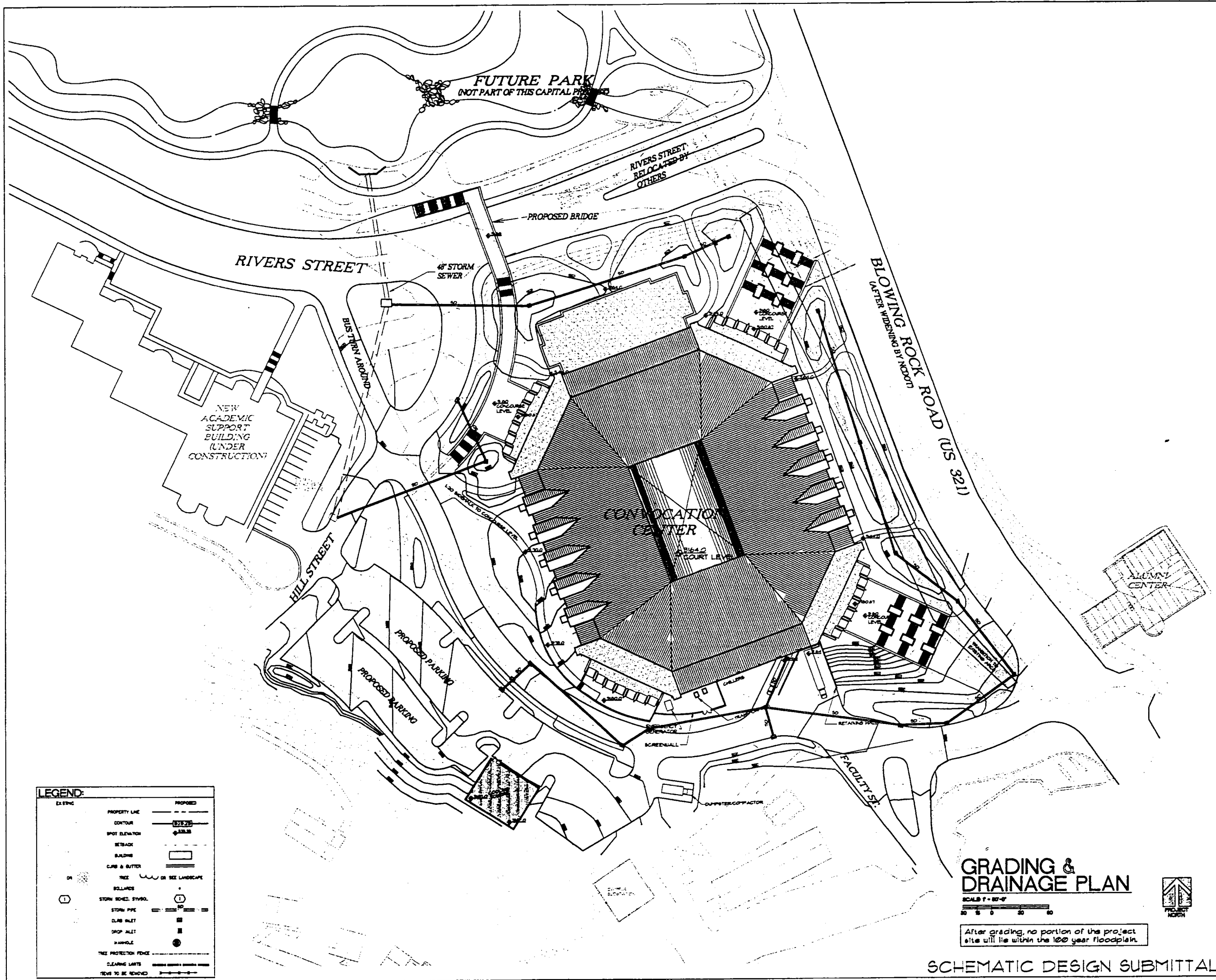
Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

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SCHMATIC SITE PLAN	
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project no.	9004
date	1/20/96



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DATE	DESCRIPTION	BY	CHECKED
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Project no. 904			
Date 10/06			



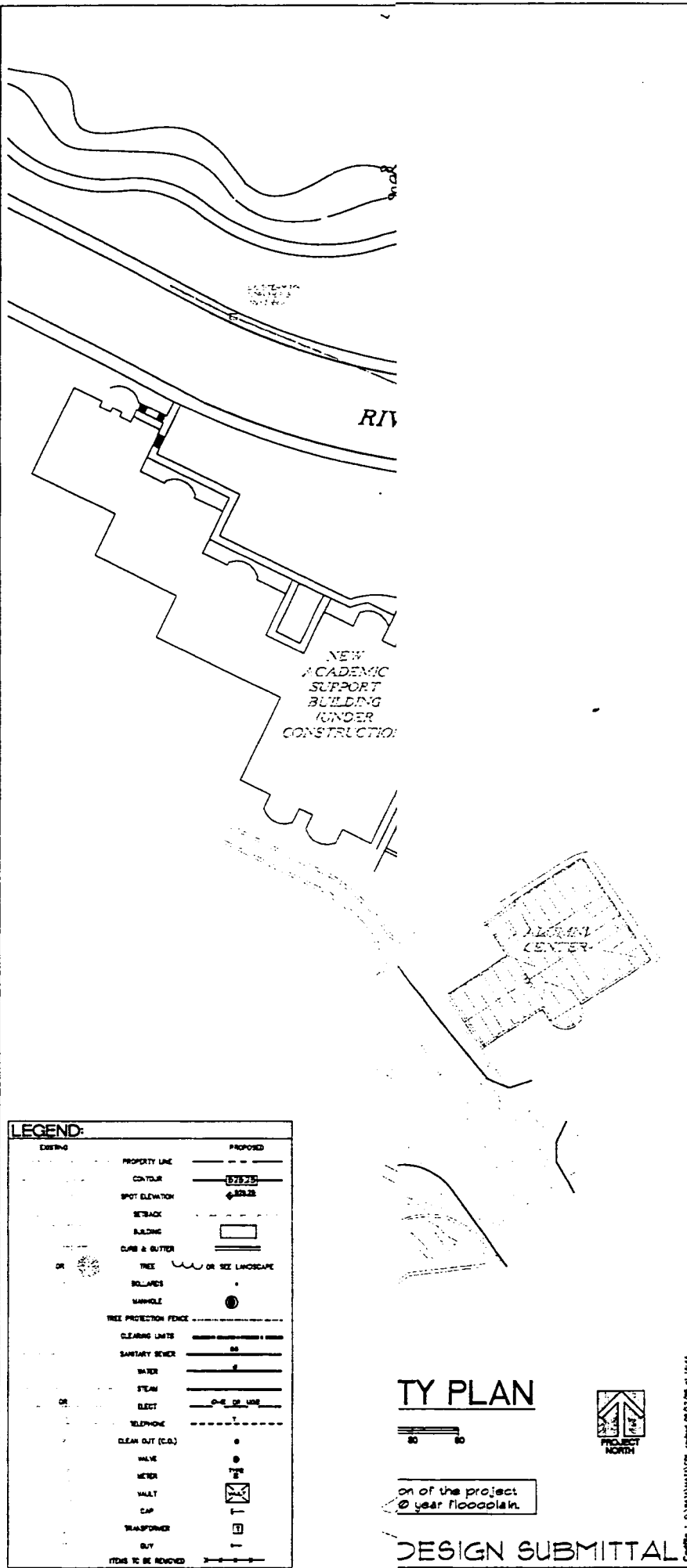
LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE
BILLIARDS	BILLIARDS
STORM SCHED. SYMBOL	STORM SCHED. SYMBOL
STORM PIPE	STORM PIPE
CLUB INLET	CLUB INLET
DROP INLET	DROP INLET
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMITS	CLEARING LIMITS
TEXT TO BE REMOVED	TEXT TO BE REMOVED

GRADING & DRAINAGE PLAN
 SCALE 1" = 80'-0"



After grading, no portion of the project site will lie within the 100 year floodplain.



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOLLARD	BOLLARD
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMIT	CLEARING LIMIT
SANITARY SEWER	SANITARY SEWER
WATER	WATER
STEAM	STEAM
ELECT	ELECT
TELEPHONE	TELEPHONE
CLEAN OUT (C.O.)	CLEAN OUT (C.O.)
VALVE	VALVE
METER	METER
VAULT	VAULT
CAP	CAP
TRANSFORMER	TRANSFORMER
BUT	BUT
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

UTILITY PLAN

0 20 40

on of the project
year floodplain.



DESIGN SUBMITTAL

HAKAN CORLEY REDFOOT ZACK
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PO Box 2546, Chapel Hill, North Carolina 27515-0256

Appalachian STATE UNIVERSITY
Appalachian Convocation Center
Boone, N. C.

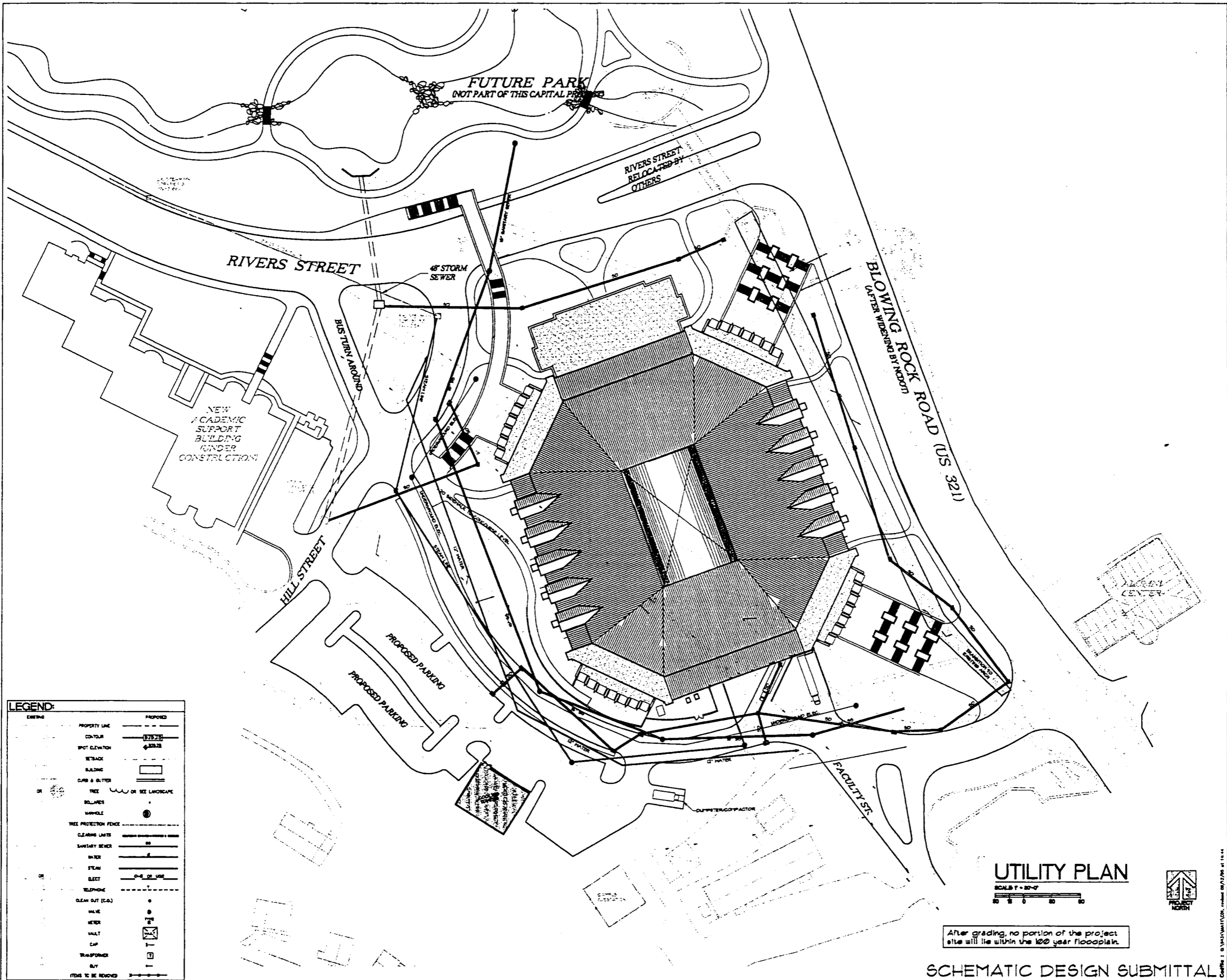
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SCHEMATIC UTILITY PLAN

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C-4
of 3 total

project no. 908
date 1/20/96



LEGEND:

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CONTOUR	CONTOUR
SPOT ELEVATION	SPOT ELEVATION
SETBACK	SETBACK
BUILDING	BUILDING
CURB & GUTTER	CURB & GUTTER
TREE	TREE OR SEE LANDSCAPE
BOLLARD	BOLLARD
MANHOLE	MANHOLE
TREE PROTECTION FENCE	TREE PROTECTION FENCE
CLEARING LIMIT	CLEARING LIMIT
SEWER	SEWER
WATER	WATER
STEAM	STEAM
ELECT	ELECT
TELEPHONE	TELEPHONE
CLEAN OUT (C.O.)	CLEAN OUT (C.O.)
VALVE	VALVE
WEIR	WEIR
WALT	WALT
CAP	CAP
TRANSFORMER	TRANSFORMER
BUY	BUY
ITEMS TO BE REMOVED	ITEMS TO BE REMOVED

UTILITY PLAN
 SCALE 1" = 30'-0"
 0 10 20 30 40



After grading, no portion of the project site will lie within the 100 year floodplain.

SCHEMATIC DESIGN SUBMITTAL

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 100 West 11th Street, 10th Floor, Boone, NC 28601
 813.833.1100



Appalachian STATE UNIVERSITY
 Appalachian Convocation Center
 Boone, N. C.

no. revisions

DATE: 02/12/04
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SCHEMATIC UTILITY PLAN
 SHEET: **C-4**
 OF 3 TOTAL
 PROJECT NO. 9404
 DATE 1/28/04

ATTACHMENT 3

PHOTOGRAPHS OF THE SITE



Photo 1. Proposed site area showing ASU Lackey Baseball Field and tennis courts.

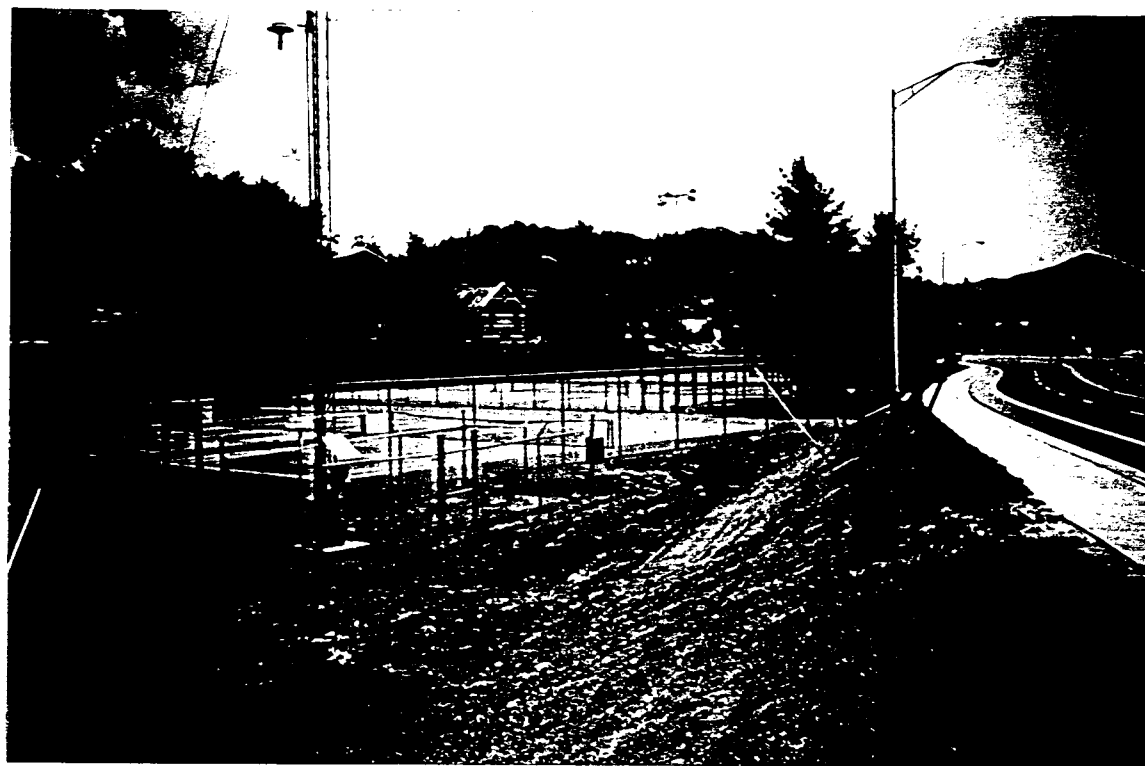


Photo 2. Proposed site area showing ASU tennis courts and Rivers Street.



Photo 3. Looking downstream along Boone Creek open channel in proposed site area.



Photo 4. Looking downstream at arch culvert under Rivers Street at US 321. Note ASU tennis courts adjacent to Boone Creek channel.

