


**SITE**

**LEGEND**

 TBP Boundary

**Drawing 2**

USGS Topographic Map  
Kernersville, NC Quadrangle  
Dated 1969, Revised 1994

SCALE: 1" = 2,000'



**USGS Topographic Map**

Triad Business Park  
Kernersville, North Carolina  
PEI No. 1010



# LEGEND

**Approximate Site Boundary**

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT**  
 The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevation determined.  
**ZONE AE** Base Flood Elevations determined.  
**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.  
**ZONE AD** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.  
**ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently derelictified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.  
**ZONE A99** Areas to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.  
**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**  
 The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**  
**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**  
**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.  
**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**  
**OTHERWISE PROTECTED AREAS (OPAs)**  
 CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary  
 0.2% annual chance floodplain boundary  
 Floodway boundary  
 Zone D boundary  
 CBRS and OPA boundary  
 Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.  
 Base Flood Elevation line and value; elevation in feet  
 Base Flood Elevation value which uniform within zone; elevation in feet  
 \* Referenced to the North American Vertical Datum of 1988.

912  
 25  
 25  
 4275000  
 477 500 FEET  
 BM5510  
 BM5510  
 BM5510  
 M 1.5

Cross section line  
 Trained line  
 Geographic coordinates, referenced to the North American Datum of 1983 (NAD 83)  
 2000-meter Universal Transverse Mercator grid ticks, zone 17  
 5000-foot grid values: North Carolina State Plane coordinate system (FIPSZONE 3200), State Plane NAD 83 (feet)  
 North Carolina Geodetic Survey bench mark (for more information visit <http://www.ncgs.state.nc.us/>)  
 National Geodetic Survey bench mark (for more information visit <http://www.ngs.noaa.gov/>)  
 NGS-SS GPS 2-5 cm Vertical Control Marks or Contractor Established NCEM Bench Marks (for more information visit <http://www.ncgs.state.nc.us/>)  
 River Mile



## Drawing 5

FEMA FIRM Panel  
 Numbers 3710689600K,  
 3710689500K, 3710780600 &  
 3710780500J  
 NOT TO SCALE



**FEMA FIRM**


Triad Business Park  
 Kernersville, North Carolina  
 PEI No. 1010

**LEGEND**

 Perennial Stream


 Wetlands

**SA 1-57** Flag Number

**DP-1**  Data Point Location

**FLAG NUMBERS/INFO**

**WETLAND FLAGS =** 

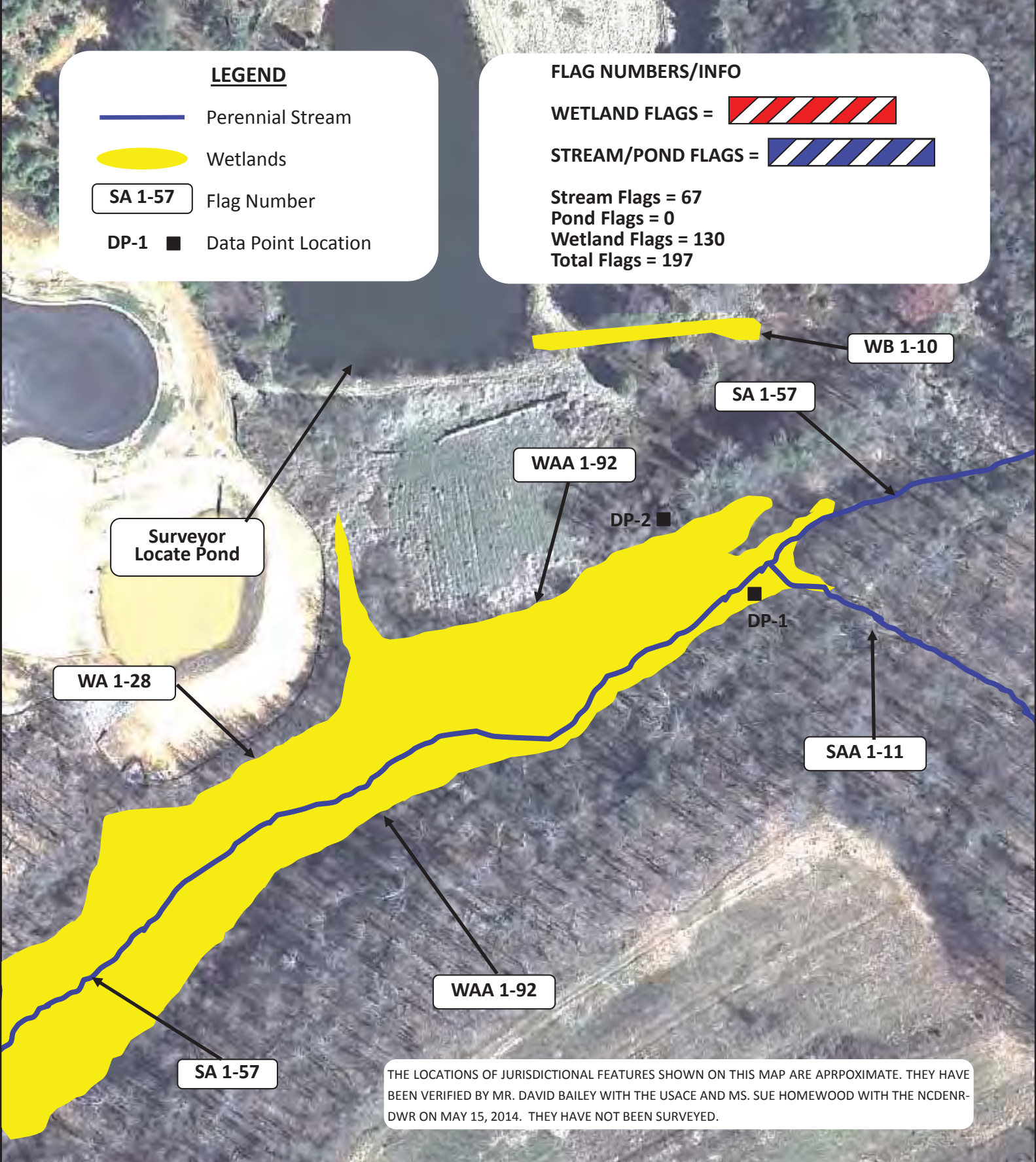
**STREAM/POND FLAGS =** 

Stream Flags = 67

Pond Flags = 0

Wetland Flags = 130

Total Flags = 197



**Surveyor  
Locate Pond**

**WA 1-28**

**WAA 1-92**

**DP-2**

**SA 1-57**

**DP-1**

**SAA 1-11**

**WB 1-10**

**WAA 1-92**

**SA 1-57**

THE LOCATIONS OF JURISDICTIONAL FEATURES SHOWN ON THIS MAP ARE APPROXIMATE. THEY HAVE BEEN VERIFIED BY MR. DAVID BAILEY WITH THE USACE AND MS. SUE HOMEWOOD WITH THE NCDENR-DWR ON MAY 15, 2014. THEY HAVE NOT BEEN SURVEYED.

**Drawing 6**

2010 Aerial Photograph  
Guilford County GIS

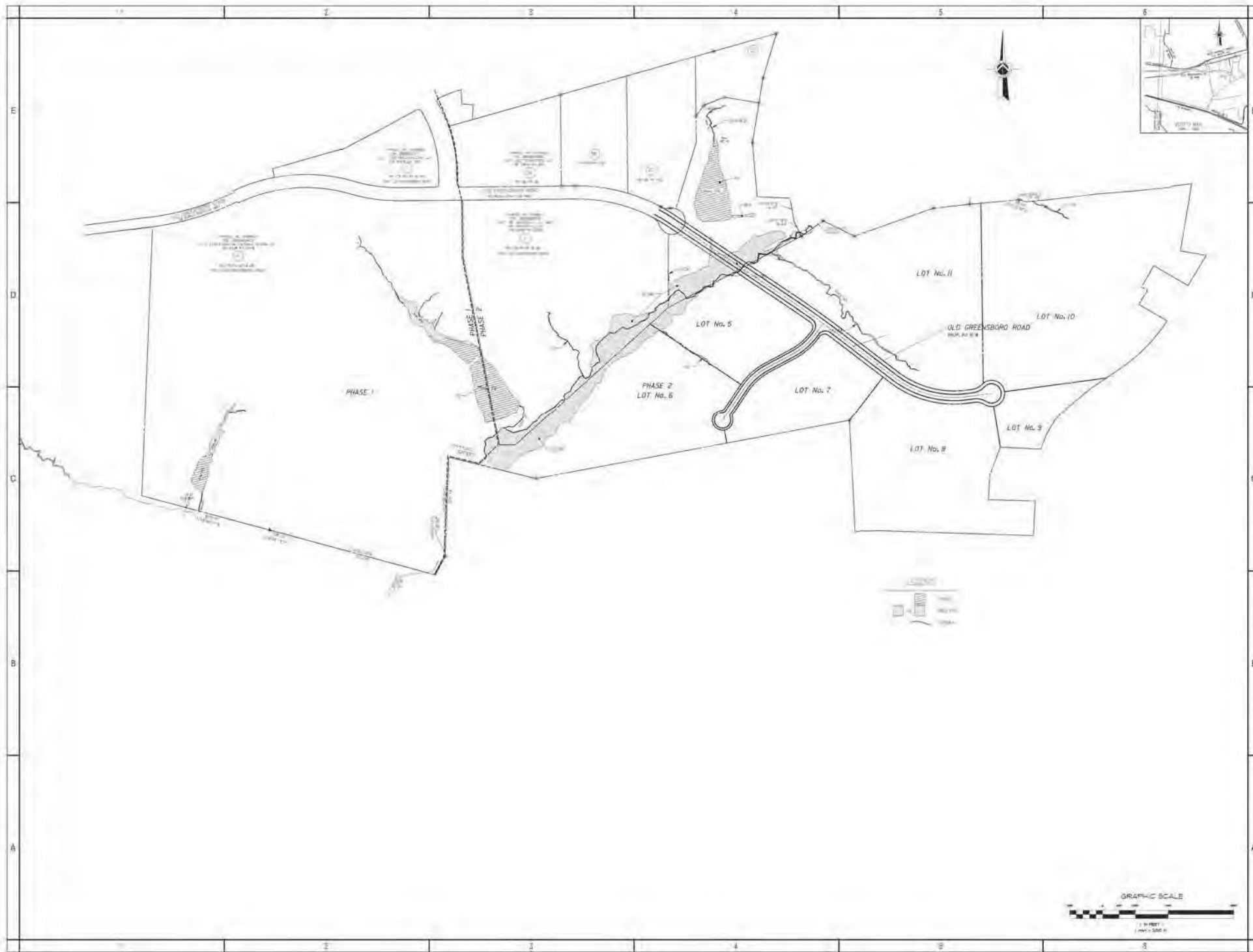
SCALE: 1" = 1,000'



**Project Area Delineation Map**

Triad Business Park  
Old Greensboro Road Extension  
Kernersville, North Carolina

PEI No. 1010  
**ATTACHMENT #4**



triad design group

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**PRELIMINARY**  
NOT FOR CONSTRUCTION  
PROFESSIONAL SEAL REQUIRED BY STATE

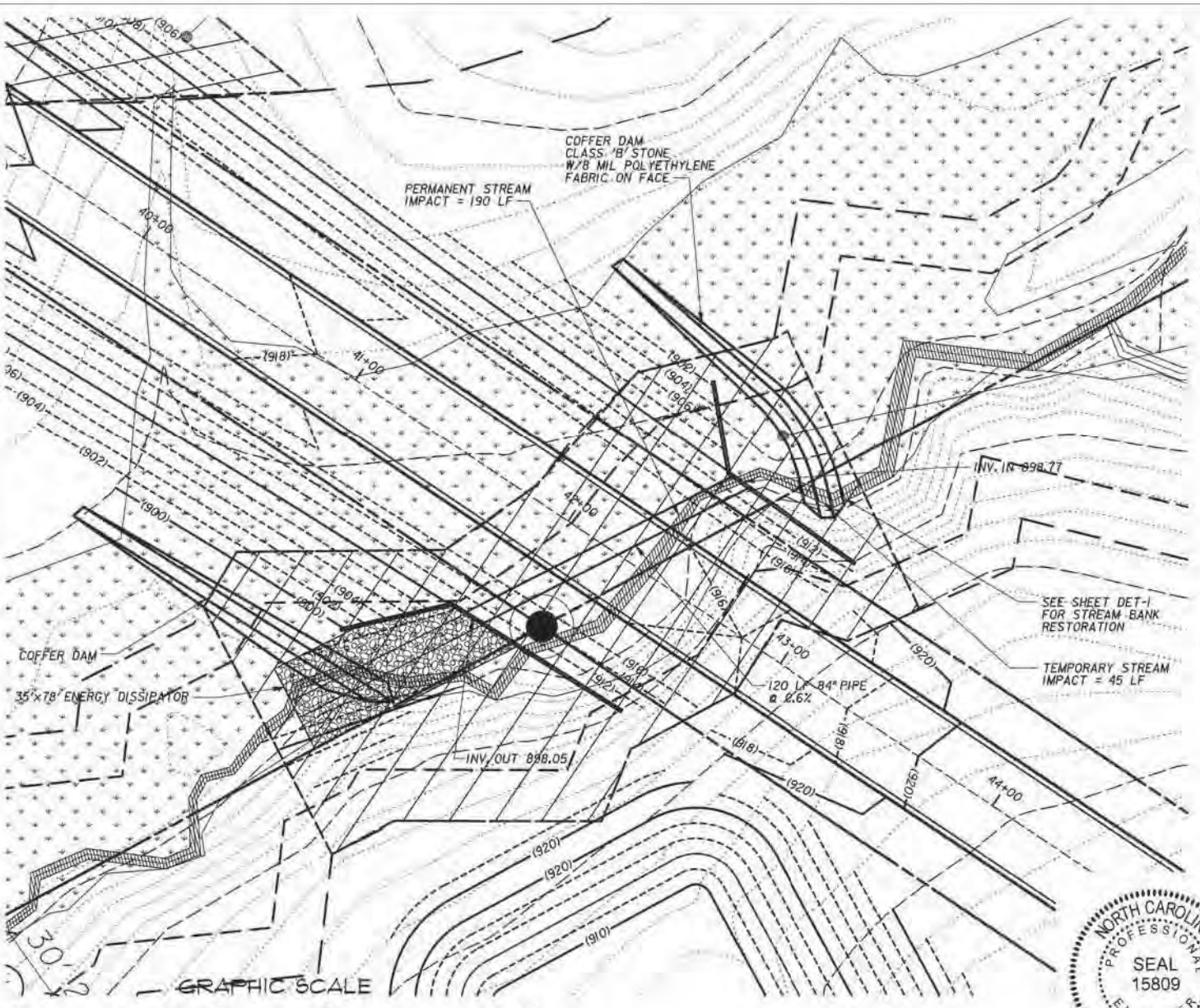
**TRIAD BUSINESS PARK**  
Road Extension  
Old Greensboro Road  
Deep River Township, Guilford County  
Nemoursville, North Carolina

DATE: 08/07/2008  
REVISIONS:

OVERALL EXHIBIT 2A

Sheet: 08/07/2008  
Drawn: RCB, J. Galloway, LAM  
Job Number: 08-0024  
Date: 08/07/2008

**EXH-2A**



VICINITY MAP  
SCALE 1" = 2000'



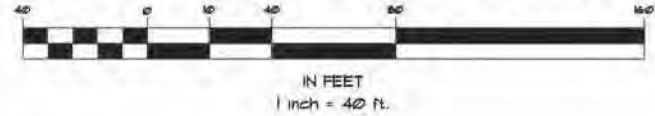
STREAM BUFFER IMPACTS	
ZONE 1	= 18,296 SF
ZONE 2	= 10,455 SF
TEMP. STREAM IMPACTS	= 45 LF
PERM. STREAM IMPACTS	= 190 LF
TEMP. WETLAND IMPACTS	= 0.06 AC.
PERM. WETLAND IMPACTS	= 0.59 AC.

**Triad Business Park**  
Old Greensboro Road Extension  
Kernersville, NC

**STREAM AND WETLAND IMPACTS W/RETAINING WALL SS-1 (EXH2)**



JUNE 10, 2015

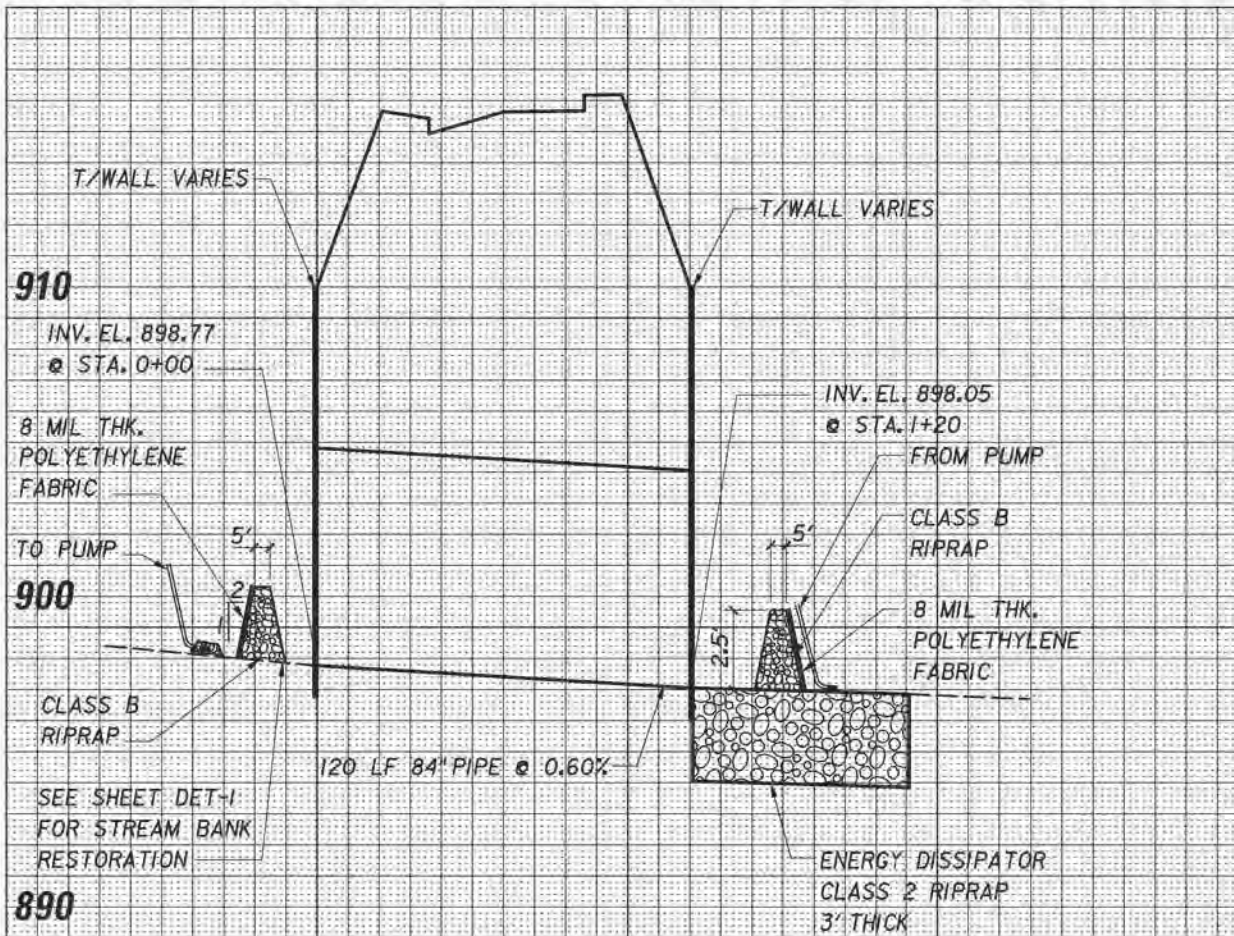


920

0+00

1+00

2+00



### STREAM CROSSING

GRAPHIC SCALE



IN FEET  
1 inch = 40 ft.



VICINITY MAP

SCALE 1" = 2000'



#### CONSTRUCTION IN EXISTING STREAM

1. KEEP CLEARING AND EXCAVATION OF STREAM BANKS AND BED TO A MINIMUM.
2. INSTALL PUMP AND LINE TO PUMP FLOW FROM AREA UPSTREAM OF CONSTRUCTION AREA TO AREA DOWNSTREAM OF CONSTRUCTION AREA. BEGIN PUMPING AND CONTINUE PUMPING WHILE WORKING WITHIN STREAM LIMITS.
3. INSTALL UPSTREAM COFFER DAM. CONSTRUCT DAMS WITH CLASS B STONE AND POLYETHYLENE FABRIC. COVER PIPE INLET WITH FABRIC AND SAND BAGS.
4. INSTALL DOWNSTREAM COFFER DAM TO PREVENT BACK FLOW INTO CONSTRUCTION AREA.
5. INSTALL TEMPORARY SILT FENCE AND SILT FENCE STONE OUTLETS ALONG TOP OF BANK ON EACH SIDE OF THE CONSTRUCTION AREA PER PLANS.
6. INSTALL DEWATERING BASIN OR SILT BAG AT TOP OF BANK. DEWATER CONSTRUCTION AREA BETWEEN COFFER DAMS USING THE BASIN OR SILT BAG.
7. INSTALL PIPE PER PLANS AND CONSTRUCT ENERGY DISSIPATOR.
8. UPON COMPLETION OF CONSTRUCTION, REMOVE COFFER DAMS.
9. CONSTRUCT RETAINING WALLS AND FILL FOR DRIVEWAY.

## Triad Business Park

Old Greensboro Road Extension  
Kernersville, NC

# STREAM AND WETLAND IMPACTS W/RETAINING WALL SS-2 (EXH2)



JUNE 10, 2015