

**SURVEY LEGEND**

- STORM WATER LINE
- SS — SANITARY SEWER LINE
- OHW — OVERHEAD WIRES
- IPF = IRON PIPE FOUND
- R/W = RIGHT OF WAY
- N/F = NOW OR FORMERLY
- RCP = CONC. STORM PIPE
- DIP = DUCTILE IRON PIPE
- Typ. = TYPICAL
- T/C = TOP OF CURB
- T/V = TOP OF VALLEY CURB
- INV = INVERT ELEVATION
- ⊕ TEMP. BENCH MARK
- ⊕ WATER METER
- ⊕ FIRE HYDRANT
- ⊕ WATER VALVE
- ⊕ SANITARY MANHOLE
- ⊕ SANITARY CLEANOUT
- ⊕ CAST IRON CATCH BASIN
- ⊕ TELEPHONE PEDESTAL
- ⊕ ELEC. CABINET
- ⊕ SIGN

**SURVEY NOTES:**

THIS SURVEYOR DID NOT PERFORM A BOUNDARY SURVEY IN CONJUNCTION WITH THE PRESENT MAPPING. ALL BOUNDARY INFORMATION IS SHOWN PER PB 2005 PG 150, ORIENTED TO PROPERTY MONUMENTATION RECOVERED, AS SHOWN HEREON.

THERE MAY BE EASEMENTS, RIGHTS-OF-WAY, OR OTHER MATTERS AFFECTING THIS PROPERTY WHICH ARE NOT SHOWN HEREON.

SITE BENCHMARKS WERE ESTABLISHED BY DIFFERENTIAL STATIC GPS METHODS USING THREE PROMARK II GPS RECEIVERS HOLDING NCG MONUMENT "COUNTER" (ELEV = 418.86 FEET) AS A FIXED VERTICAL REFERENCE. THE VERTICAL DATUM IS NAVD 88 WITH A PRECISION OF 0.006" AT THE 95% CONFIDENCE LEVEL.

ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS UNLESS NOTED OTHERWISE.

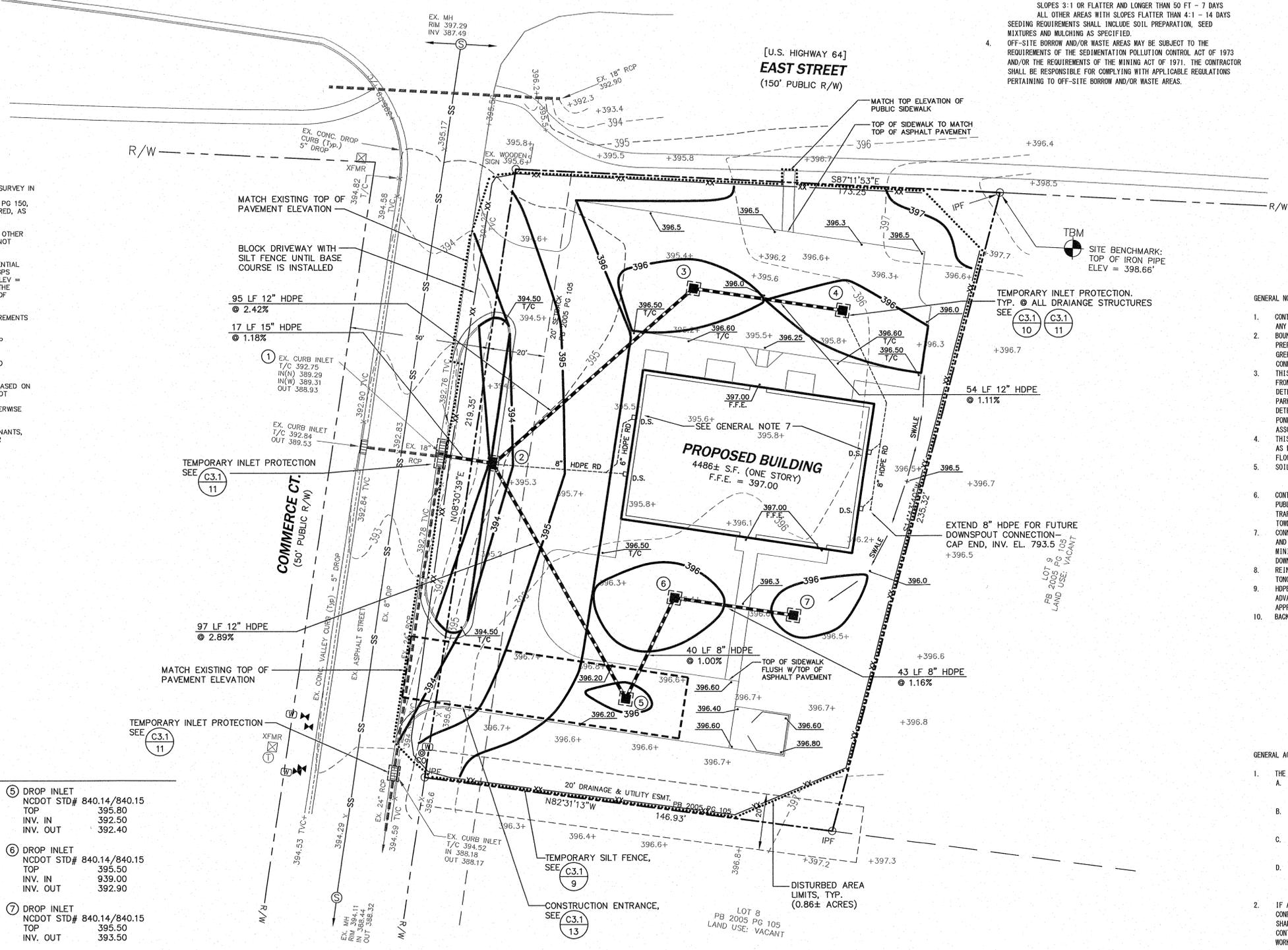
ACCORDING TO FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL #3710975100-4, EFFECTIVE 02 FEBRUARY, 2007, THIS SITE DOES NOT LIE WITHIN THE 100-YEAR OR OTHER SPECIAL HAZARD FLOOD ZONE.

ANY UNDERGROUND IMPROVEMENTS ARE SHOWN BASED ON SURFACE EVIDENCE ONLY. THIS SURVEYOR CANNOT CERTIFY TO NOR ACCEPT LIABILITY FOR THE PRESENCE AND/OR LOCATION OF BURIED OR OTHERWISE NON-VISIBLE IMPROVEMENTS.

THIS LOT MAY BE SUBJECT TO CONDITIONS, COVENANTS, AND RESTRICTIONS PER DB 1174 PG 181 AND PER PB 2005 PG 105.

**STORM DRAINAGE DATA:**

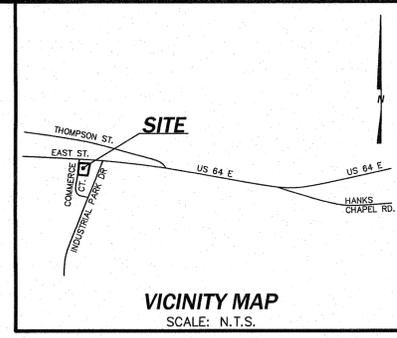
- |  |  |
|--|--|
| <p>① EXISTING CURB INLET<br/>T/C 392.75<br/>INV. IN(N) 389.29<br/>INV. IN(W) 389.31<br/>INV. OUT 388.93<br/>NEW INV. IN(E) 389.3</p> | <p>⑤ DROP INLET<br/>NCDOT STD# 840.14/840.15<br/>TOP 395.50<br/>INV. IN 395.80<br/>INV. OUT 392.40</p> |
| <p>② CURB INLET<br/>NCDOT STD# 840.01/840.02<br/>T/C 394.00<br/>INV. IN(NE) 389.60<br/>INV. IN(SE) 389.60<br/>INV. OUT 389.50</p>    | <p>⑥ DROP INLET<br/>NCDOT STD# 840.14/840.15<br/>TOP 395.50<br/>INV. IN 939.00<br/>INV. OUT 392.90</p> |
| <p>③ DROP INLET<br/>NCDOT STD# 840.14/840.15<br/>TOP 395.60<br/>INV. IN 392.00<br/>INV. OUT 391.90</p>                               | <p>⑦ DROP INLET<br/>NCDOT STD# 840.14/840.15<br/>TOP 395.50<br/>INV. OUT 393.50</p>                    |
| <p>④ DROP INLET<br/>NCDOT STD# 840.14/840.15<br/>TOP 395.60<br/>INV. OUT 392.60</p>  |  |



**LEGEND**

— EXISTING	— PROPOSED
CONTOURS	SPOT ELEVATIONS
SILT FENCE	DISTURBED AREA

- EROSION CONTROL NOTES:**
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS INCLUDED IN THESE PLANS AND THE NORTH CAROLINA EROSION AND SEDIMENTATION CONTROL PLANNING AND DESIGN MANUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES, REPLACING ANY DEVICE WHICH FAILS TO PERFORM AS INTENDED AND FOR ADDING ANY DEVICES REQUIRED BY REGULATORY AGENCIES DURING THE CONSTRUCTION PERIOD.
  - THE CONTRACTOR SHALL PROVIDE GROUND STABILIZATION (I. e. SEEDING AND MULCHING) ON ALL DISTURBED AREAS WITHIN THE FOLLOWING TIME FRAMES:
    - PERIMETER DIKES, SLOES, DITCHES AND SLOPES - 14 DAYS
    - SLOPES STEEPER THAN 3:1 - 7 DAYS
    - SLOPES STEEPER THAN 3:1 IF LESS THAN 10' AND LESS THAN 2:1 - 14 DAYS
    - SLOPES 3:1 OR FLATTER AND 50 FT OR SHORTER - 14 DAYS
    - SLOPES 3:1 OR FLATTER AND LONGER THAN 50 FT - 7 DAYS
    - ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 - 14 DAYS
 SEEDING REQUIREMENTS SHALL INCLUDE SOIL PREPARATION, SEED MIXTURES AND MULCHING AS SPECIFIED.
  - OFF-SITE BORROW AND/OR WASTE AREAS MAY BE SUBJECT TO THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT OF 1973 AND/OR THE REQUIREMENTS OF THE MINING ACT OF 1971. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE REGULATIONS PERTAINING TO OFF-SITE BORROW AND/OR WASTE AREAS.



- GENERAL NOTES:**
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.
  - BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A MAP PREPARED BY SACKS SURVEYING & MAPPING, PC, 3308-B EDGEFIELD ROAD, GREENSBORO, NC, 27409 (336) 931-0566. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
  - THIS SITE IS LOCATED IN THE JORDAN LAKE WATERSHED. STORMWATER FROM THE DEVELOPED PROPERTY SHALL DISCHARGE TO THE EXISTING DETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE BUSINESS PARK. THIS PROPERTY HAS VESTED RIGHTS TO UTILIZE THE EXISTING DETENTION POND FOR WATER QUALITY. MAINTENANCE OF THE EXISTING POND IS THE RESPONSIBILITY OF THE DEVELOPER AND/OR OWNER'S ASSOCIATION.
  - THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP No. 3710975100J DATED FEBRUARY 2, 2007.
  - SOIL TYPES PER CHATHAM COUNTY GIS:
    - OmB & OmE2
    - AVERAGE SITE SLOPE: 1-3 PERCENT
  - CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING WORK IN PUBLIC STREETS IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE REQUIREMENTS OF THE TOWN OF PITTSBORO.
  - CONNECT ALL BUILDING DOWNSPOUTS TO 6 INCH HDPE PIPES USING BOOTS AND COMPATIBLE FITTINGS. 6 INCH PIPE TO BE INSTALLED AT 1 PERCENT MINIMUM. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF DOWNSPOUTS.
  - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM C76, TYPE III, TONGUE AND GROOVE JOINTS.
  - HDPE PIPE SHALL BE SMOOTH INTERIOR WALL AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, HANCOCK, LANE ENTERPRISES, OR APPROVED EQUAL.
  - BACKFILL AND COMPACTION REQUIREMENTS:
    - ALL FILL MATERIAL SHALL BE FREE OF ORGANIC MATTER AND DEBRIS, HAVE A PLASTICITY INDEX LESS THAN 30 AND A MAXIMUM DRY DENSITY OF AT LEAST 90 PCF IN ACCORDANCE WITH ASTM D698.
    - FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" LOOSE THICKNESS AND BE COMPACTED TO THE FOLLOWING MINIMUMS:
      - UNDER BUILDING AND PAVEMENT: 95 PERCENT WITH TOP 8" AT 100 PERCENT UNDER BUILDINGS
      - UNDER SIDEWALKS AND UTILITY PADS: 95 PERCENT
      - YARD AREAS: 90 PERCENT
    - COMPACTION IS PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.

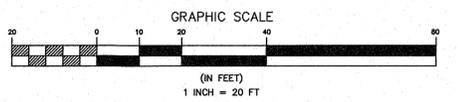
- GENERAL ACCESSIBILITY NOTES:**
- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:
    - A. GRADES IN PROPOSED HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2 PERCENT IN ANY DIRECTION, INCLUDING THE DIAGONAL.
    - B. THERE SHALL BE NO DESIGNATED PEDESTRIAN ROUTES/SIDEWALKS WITHIN THE SITE WHICH EXCEED A 5 PERCENT SLOPE IN THE DIRECTION OF TRAVEL AND A 2 PERCENT CROSS SLOPE.
    - C. PROVIDE LEVEL TURNING AREAS, MAXIMUM 2 PERCENT SLOPE IN ALL DIRECTIONS INCLUDING THE DIAGONAL, ON ALL PROPOSED SIDEWALKS WHERE A PROPOSED INTERSECTING SIDEWALK CONNECTS.
    - D. PROPOSED LANDINGS OUTSIDE OF ALL PROPOSED DOORS SHALL BE SIZED PER THE NORTH CAROLINA BUILDING CODE. SHALL MATCH THE BUILDING FINISHED FLOOR ELEVATION, AND SHALL NOT EXCEED 2 PERCENT IN ANY DIRECTION INCLUDING THE DIAGONAL.
  - IF ANY GRADES, NOTES, OR INSTRUCTIONS SHOWN ON THESE PLANS CONFLICT WITH NOTES ABOVE, THEN THE MORE STRINGENT OF THE TWO SHALL APPLY. IF THE CONTRACTOR HAS ANY QUESTIONS, HE SHALL CONTACT THE ENGINEER OF RECORD PRIOR TO STARTING THAT PHASE OF WORK.

**OWNER:**  
PITTSBORO FEED  
1103 EAST STREET  
PITTSBORO, NC. 27312  
(919) 542-2454

**CONTRACTOR:**  
BAR CONSTRUCTION CO. INC.  
611-A INDUSTRIAL AVE.  
GREENSBORO, NC. 27406  
(336) 274-2477



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Revision	Description	By	Date

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**GRADING, DRAINAGE, & EROSION CONTROL PLAN**  
 A PROPOSED BUILDING FOR  
**PITTSBORO FEED**  
 COMMERCIAL CT.  
 CENTER TOWNSHIP, CHATHAM COUNTY, PITTSBORO, NC.  
 Drawn By: K. BRODERICK Date: 6/16/14  
 D. RUSSELL Project # 14230

Sheet No. **C2.1**