

THOMAS & HUTTON

215 S. KERR AVENUE, UNIT B
WILMINGTON, NC 28403 | 910.332.3360
WWW.THOMASANDHUTTON.COM

June 24, 2013

City of Wilmington
Engineering Division
Rob Gordon
305 Chestnut Street
Wilmington, NC 28402

RE: Taco Bell Fulton Station
Comment Response
24078.0001.500

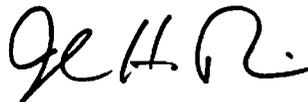
Dear Mr. Gordon:

Per your June 13, 2013 email, we offer the following responses:

1. There are minor discrepancies between the figures listed on table on sheet 3.1 and the application. Please make sure the impervious figures on the plans, application and NCDENR permit all match.
RESPONSE: The impervious figures have been updated to match.
2. There is no offsite impervious listed on the application, but 1024 sf is listed on sheet 3.1. Please revise the application.
RESPONSE: Attached is a revised copy of the application.
3. It would appear that at least one dimensional variance will be required (North side of entrance off of 17th). Transportation planning may identify others. Please forward the variance request to Engineering for review and approval. Please make sure all of the requirements outlined in Sec 18-348 of the code are satisfied.
RESPONSE: Please see the attached revised sheet C1.2 for revised striping at the entrance and the centerline of the entry drive. Also attached is a revised Autoturn exhibit for your review.

Sincerely:

THOMAS & HUTTON



John Richards, PE
Principal/Project Manager

DWQ USE ONLY		
Date Received	Fee Paid	Permit Number
Applicable Rules: <input type="checkbox"/> Coastal SW - 1995 <input type="checkbox"/> Coastal SW - 2008 <input type="checkbox"/> Ph II - Post Construction (select all that apply) <input type="checkbox"/> Non-Coastal SW- HQW/ORW Waters <input type="checkbox"/> Universal Stormwater Management Plan <input type="checkbox"/> Other WQ Mgmt Plan: _____		

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

STORMWATER MANAGEMENT PERMIT APPLICATION FORM

This form may be photocopied for use as an original

I. GENERAL INFORMATION

1. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.):

Taco Bell Fulton Station

2. Location of Project (street address):

4422 S. 17th St.

City: Wilmington

County: New Hanover

Zip: 28405

3. Directions to project (from nearest major intersection):

4. Latitude: 34° 10' 31" N Longitude: 77° 53' 34" W of the main entrance to the project.

II. PERMIT INFORMATION:

1.a. Specify whether project is (check one): New Modification Renewal w/ Modification:
*Renewals with modifications also requires SWU-192 - Renewal Application Form

b. If this application is being submitted as the result of a modification to an existing permit, list the existing permit number N/A, its issue date (if known) _____, and the status of construction: Not Started Partially Completed* Completed* *provide a designer's certification

2. Specify the type of project (check one):

Low Density High Density Drains to an Offsite Stormwater System Other

3. If this application is being submitted as the result of a previously returned application or a letter from DWQ requesting a state stormwater management permit application, list the stormwater project number, if assigned, N/A and the previous name of the project, if different than currently proposed, _____.

4.a. Additional Project Requirements (check applicable blanks; information on required state permits can be obtained by contacting the Customer Service Center at 1-877-623-6748):

CAMA Major Sedimentation/Erosion Control: 0.75 ac of Disturbed Area
 NPDES Industrial Stormwater 404/401 Permit: Proposed Impacts _____

b. If any of these permits have already been acquired please provide the Project Name, Project/Permit Number, issue date and the type of each permit: N/A

5. Is the project located within 5 miles of a public airport? No Yes

If yes, see S.L. 2012-200, Part VI: http://portal.ncdenr.org/web/wq/wqs/su/statesw/rules_laws

III. CONTACT INFORMATION

1. a. Print Applicant / Signing Official's name and title (specifically the developer, property owner, lessee, designated government official, individual, etc. who owns the project):

Applicant/Organization:R & S Matthews Properties, LLC

Signing Official & Title:Brett A. Matthews - Member/Manager

b. Contact information for person listed in item 1a above:

Street Address:609 Executive Place

City:Fayetteville

State:NC

Zip:28305

Mailing Address (if applicable):

City:

State:

Zip:

Phone: ()

Fax: ()

Email:ron@ffinc.net

c. Please check the appropriate box. The applicant listed above is:

The property owner (Skip to Contact Information, item 3a)

Lessee* (Attach a copy of the lease agreement and complete Contact Information, item 2a and 2b below)

Purchaser* (Attach a copy of the pending sales agreement and complete Contact Information, item 2a and 2b below)

Developer* (Complete Contact Information, item 2a and 2b below.)

2. a. Print Property Owner's name and title below, if you are the lessee, purchaser or developer. (This is the person who owns the property that the project is located on):

Property Owner/Organization:

Signing Official & Title:

b. Contact information for person listed in item 2a above:

Street Address:

City:

State:

Zip:

Mailing Address (if applicable):

City:

State:

Zip:

Phone: ()

Fax: ()

Email:

3. a. (Optional) Print the name and title of another contact such as the project's construction supervisor or other person who can answer questions about the project:

Other Contact Person/Organization:Thomas & Hutton

Signing Official & Title:John Richards, PE Principal

b. Contact information for person listed in item 3a above:

Mailing Address:1350 Farrow Parkway

City:Myrtle Beach

State:SC

Zip:29577

Phone: (843) 839-3545

Fax: (843) 839-3565

Email:richards.j@thomasandhutton.com

4. Local jurisdiction for building permits: New Hanover County

Point of Contact:

Phone #: ()

IV. PROJECT INFORMATION

1. In the space provided below, briefly summarize how the stormwater runoff will be treated.

Offsite system known as Fulton Station SW8 981023

2. a. If claiming vested rights, identify the supporting documents provided and the date they were approved:

- Approval of a Site Specific Development Plan or PUD Approval Date: N/A
- Valid Building Permit Issued Date: _____
- Other: _____ Date: _____

b. If claiming vested rights, identify the regulation(s) the project has been designed in accordance with:

- Coastal SW – 1995 Ph II – Post Construction

3. Stormwater runoff from this project drains to the Cape Fear/Banards Creek River basin.

4. Total Property Area: 0.75 acres 5. Total Coastal Wetlands Area: 0 acres
 6. Total Surface Water Area: 0 acres

7. Total Property Area (4) – Total Coastal Wetlands Area (5) – Total Surface Water Area (6) = Total Project Area':
0.75 acres

Total project area shall be calculated to exclude the following: the normal pool of impounded structures, the area between the banks of streams and rivers, the area below the Normal High Water (NHW) line or Mean High Water (MHW) line, and coastal wetlands landward from the NHW (or MHW) line. The resultant project area is used to calculate overall percent built upon area (BUA). Non-coastal wetlands landward of the NHW (or MHW) line may be included in the total project area.

8. Project percent of impervious area: (Total Impervious Area / Total Project Area) X 100 = 85.0 %

9. How many drainage areas does the project have? 1 (For high density, count 1 for each proposed engineered stormwater BMP. For low density and other projects, use 1 for the whole property area)

10. Complete the following information for each drainage area identified in Project Information item 9. If there are more than four drainage areas in the project, attach an additional sheet with the information for each area provided in the same format as below.

Basin Information	Drainage Area 1	Drainage Area __	Drainage Area __	Drainage Area __
Receiving Stream Name	Banards Creek	Banards Creek		
Stream Class *	CSW	CSW		
Stream Index Number *	18-80	18-80		
Total Drainage Area (sf)	32500	0		
On-site Drainage Area (sf)	32500	0		
Off-site Drainage Area (sf)	0	1024		
Proposed Impervious Area** (sf)	27,625	1024		
% Impervious Area** (total)	85.0	100		

Impervious** Surface Area	Drainage Area __	Drainage Area __	Drainage Area __	Drainage Area __
On-site Buildings/Lots (sf)	2489	0		
On-site Streets (sf)	0	0		
On-site Parking (sf)	18036	0		
On-site Sidewalks (sf)	989	0		
Other on-site (sf)	0	0		
Future (sf)	6,111	0		
Off-site (sf)	0	1024		
Existing BUA*** (sf)	0	0		
Total (sf):	27,625	1024		

* Stream Class and Index Number can be determined at: <http://portal.ncdenr.org/web/twq/ps/csu/classifications>

** Impervious area is defined as the built upon area including, but not limited to, buildings, roads, parking areas, sidewalks, gravel areas, etc.

*** Report only that amount of existing BUA that will remain after development. Do not report any existing BUA that is to be removed and which will be replaced by new BUA.

11. How was the off-site impervious area listed above determined? Provide documentation. N/A

Projects in Union County: Contact DWQ Central Office staff to check if the project is located within a Threatened & Endangered Species watershed that may be subject to more stringent stormwater requirements as per 15A NCAC 02B .0600.

V. SUPPLEMENT AND O&M FORMS

The applicable state stormwater management permit supplement and operation and maintenance (O&M) forms must be submitted for each BMP specified for this project. The latest versions of the forms can be downloaded from <http://portal.ncdenr.org/web/wq/ws/su/bmp-manual>.

VI. SUBMITTAL REQUIREMENTS

Only complete application packages will be accepted and reviewed by the Division of Water Quality (DWQ). A complete package includes all of the items listed below. A detailed application instruction sheet and BMP checklists are available from http://portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs. The complete application package should be submitted to the appropriate DWQ Office. (The appropriate office may be found by locating project on the interactive online map at <http://portal.ncdenr.org/web/wq/ws/su/maps>.)

Please indicate that the following required information have been provided by initialing in the space provided for each item. All original documents MUST be signed and initialed in blue ink. Download the latest versions for each submitted application package from http://portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs.

- | | Initials |
|--|------------|
| 1. Original and one copy of the Stormwater Management Permit Application Form. | <u>JHR</u> |
| 2. Original and one copy of the signed and notarized Deed Restrictions & Protective Covenants Form. (if required as per Part VII below) | <u>JHR</u> |
| 3. Original of the applicable Supplement Form(s) (sealed, signed and dated) and O&M agreement(s) for each BMP. | <u>JHR</u> |
| 4. Permit application processing fee of \$505 payable to NCDENR. (For an Express review, refer to http://www.envhelp.org/pages/onestopexpress.html for information on the Express program and the associated fees. Contact the appropriate regional office Express Permit Coordinator for additional information and to schedule the required application meeting.) | <u>JHR</u> |
| 5. A detailed narrative (one to two pages) describing the stormwater treatment/management for the project. This is required in addition to the brief summary provided in the Project Information, item 1. | <u>JHR</u> |
| 6. A USGS map identifying the site location. If the receiving stream is reported as class SA or the receiving stream drains to class SA waters within 1/2 mile of the site boundary, include the 1/2 mile radius on the map. | <u>JHR</u> |
| 7. Sealed, signed and dated calculations (one copy). | <u>JHR</u> |
| 8. Two sets of plans folded to 8.5" x 14" (sealed, signed, & dated), including: | <u>JHR</u> |
| a. Development/Project name. | |
| b. Engineer and firm. | |
| c. Location map with named streets and NCSR numbers. | |
| d. Legend. | |
| e. North arrow. | |
| f. Scale. | |
| g. Revision number and dates. | |
| h. Identify all surface waters on the plans by delineating the normal pool elevation of impounded structures, the banks of streams and rivers, the MHW or NHW line of tidal waters, and any coastal wetlands landward of the MHW or NHW lines. <ul style="list-style-type: none">• Delineate the vegetated buffer landward of the normal pool elevation of impounded structures, the banks of streams or rivers, and the MHW (or NHW) of tidal waters. | |
| i. Dimensioned property/project boundary with bearings & distances. | |
| j. Site Layout with all BUA identified and dimensioned. | |
| k. Existing contours, proposed contours, spot elevations, finished floor elevations. | |
| l. Details of roads, drainage features, collection systems, and stormwater control measures. | |
| m. Wetlands delineated, or a note on the plans that none exist. (Must be delineated by a qualified person. Provide documentation of qualifications and identify the person who made the determination on the plans.) | |
| n. Existing drainage (including off-site), drainage easements, pipe sizes, runoff calculations. | |
| o. Drainage areas delineated (included in the main set of plans, not as a separate document). | |
| p. Vegetated buffers (where required). | |

9. Copy of any applicable soils report with the associated SHWT elevations (Please identify elevations in addition to depths) as well as a map of the boring locations with the existing elevations and boring logs. Include an 8.5"x11" copy of the NRCS County Soils map with the project area clearly delineated. For projects with infiltration BMPs, the report should also include the soil type, expected infiltration rate, and the method of determining the infiltration rate. (Infiltration Devices submitted to WIRO: Schedule a site visit for DWQ to verify the SHWT prior to submittal, (910) 796-7378.)

JHR

10. A copy of the most current property deed. Deed book: 5681 Page No: 1132-1135

JHR

11. For corporations and limited liability corporations (L.L.C): Provide documentation from the NC Secretary of State or other official documentation, which supports the titles and positions held by the persons listed in Contact Information, item 1a, 2a, and/or 3a per 15A NCAC 2H.1003(e). The corporation or L.L.C must be listed as an active corporation in good standing with the NC Secretary of State, otherwise the application will be returned.
<http://www.secretary.state.nc.us/Corporations/CSearch.aspx>

JHR

VII. DEED RESTRICTIONS AND PROTECTIVE COVENANTS

For all subdivisions, outparcels, and future development, the appropriate property restrictions and protective covenants are required to be recorded prior to the sale of any lot. If lot sizes vary significantly or the proposed BUA allocations vary, a table listing each lot number, lot size, and the allowable built-upon area must be provided as an attachment to the completed and notarized deed restriction form. The appropriate deed restrictions and protective covenants forms can be downloaded from

http://portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs. Download the latest versions for each submittal.

In the instances where the applicant is different than the property owner, it is the responsibility of the property owner to sign the deed restrictions and protective covenants form while the applicant is responsible for ensuring that the deed restrictions are recorded.

By the notarized signature(s) below, the permit holder(s) certify that the recorded property restrictions and protective covenants for this project, if required, shall include all the items required in the permit and listed on the forms available on the website, that the covenants will be binding on all parties and persons claiming under them, that they will run with the land, that the required covenants cannot be changed or deleted without concurrence from the NC DWQ, and that they will be recorded prior to the sale of any lot.

VIII. CONSULTANT INFORMATION AND AUTHORIZATION

Applicant: Complete this section if you wish to designate authority to another individual and/or firm (such as a consulting engineer and/or firm) so that they may provide information on your behalf for this project (such as addressing requests for additional information).

Consulting Engineer: John Richards, PE

Consulting Firm: Thomas & Hutton

Mailing Address: 1350 Farrow Parkway

City: Myrtle Beach

State: SC

Zip: 29577

Phone: (843) 839-3545

Fax: (843) 839-3565

Email: richards.j@thomasandhutton.com

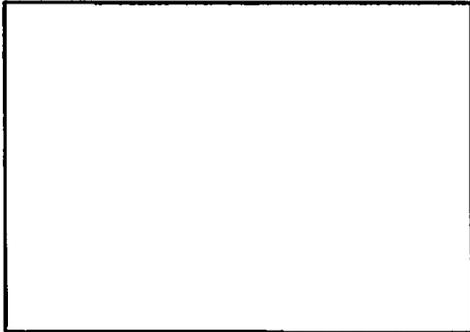
IX. PROPERTY OWNER AUTHORIZATION (if Contact Information, item 2 has been filled out, complete this section)

I, (print or type name of person listed in Contact Information, item 2a) N/A, certify that I own the property identified in this permit application, and thus give permission to (print or type name of person listed in Contact Information, item 1a) _____ with (print or type name of organization listed in Contact Information, item 1a) _____ to develop the project as currently proposed. A copy of the lease agreement or pending property sales contract has been provided with the submittal, which indicates the party responsible for the operation and maintenance of the stormwater system.

As the legal property owner I acknowledge, understand, and agree by my signature below, that if my designated agent (entity listed in Contact Information, item 1) dissolves their company and/or cancels or defaults on their lease agreement, or pending sale, responsibility for compliance with the DWQ Stormwater permit reverts back to me, the property owner. As the property owner, it is my responsibility to notify DWQ immediately and submit a completed Name/Ownership Change Form within 30 days; otherwise I will be operating a stormwater treatment facility without a valid permit. I understand that the operation of a stormwater treatment facility without a valid permit is a violation of NC General Statute 143-215.1 and may result in appropriate enforcement action including the assessment of civil penalties of up to \$25,000 per day, pursuant to NCGS 143-215.6.

Signature: _____ Date: _____

I, _____, a Notary Public for the State of _____, County of _____, do hereby certify that _____ personally appeared before me this ___ day of _____, _____, and acknowledge the due execution of the application for a stormwater permit. Witness my hand and official seal, _____



SEAL

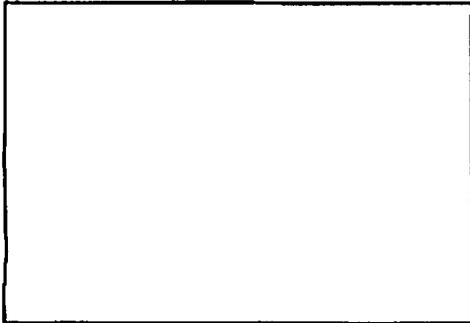
My commission expires _____

X. APPLICANT'S CERTIFICATION

I, (print or type name of person listed in Contact Information, item 1a) Brett A Matthews, certify that the information included on this permit application form is, to the best of my knowledge, correct and that the project will be constructed in conformance with the approved plans, that the required deed restrictions and protective covenants will be recorded, and that the proposed project complies with the requirements of the applicable stormwater rules under 15A NCAC 2H .1000 and any other applicable state stormwater requirements.

Signature: *Brett A. Matthews* Date: 2/4/13

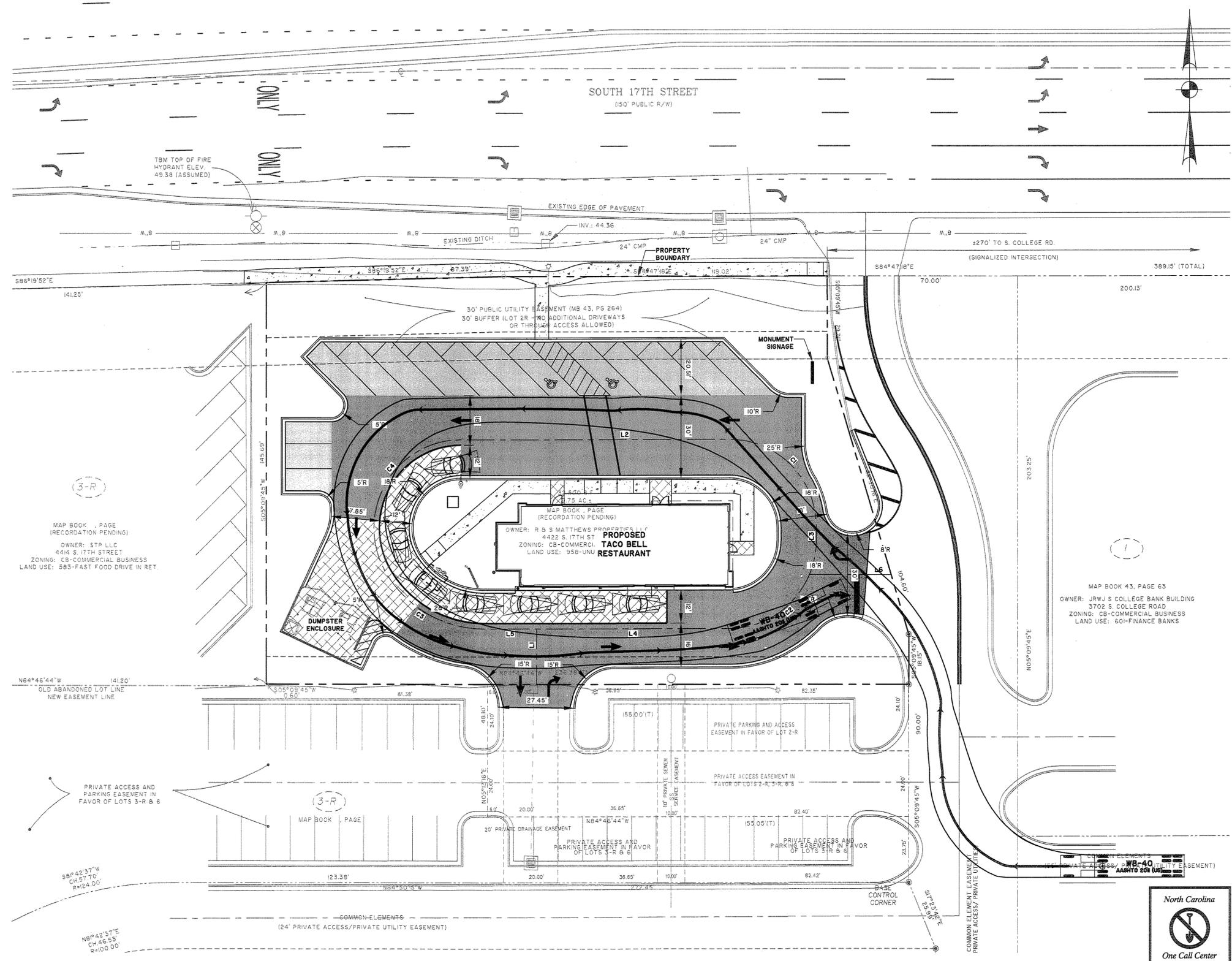
I, Rebecca Taylor, a Notary Public for the State of North Carolina, County of Hoke, do hereby certify that Brett A. Matthews personally appeared before me this 4 day of February, 2013, and acknowledge the due execution of the application for a stormwater permit. Witness my hand and official seal, Rebecca Taylor - Notary Public



SEAL

My commission expires 5-3-2015

2413079.04078.0000\GIS\Map\2413079.04078.0000 - Auturn Exhibit.dwg - May, 2013 - 4:27:21 PM



MAP BOOK 3, PAGE
 (RECORDATION PENDING)
 OWNER: STP LLC
 4414 S. 17TH STREET
 ZONING: CB-COMMERCIAL BUSINESS
 LAND USE: 593-FAST FOOD DRIVE IN RET.

NB4°46'44"W
 141.20'
 OLD ABANDONED LOT LINE
 NEW EASEMENT LINE

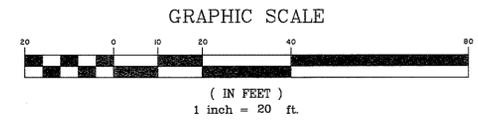
PRIVATE ACCESS AND
 PARKING EASEMENT IN
 FAVOR OF LOTS 3-R & 6

NB4°42'37"W
 CH 57.70'
 R=24.00'

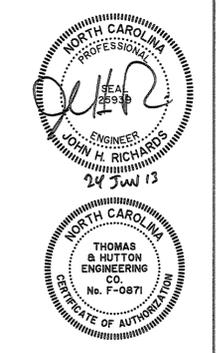
NB4°42'37"E
 CH 46.55'
 R=100.00'

LINE	BEARING	LENGTH
L1	S 0°02'57" E	20.24'
L2	N 89°57'03" E	98.78'
L3	S 0°02'57" E	4.58'
L4	S 89°57'03" W	70.88'
L5	S 89°57'03" W	19.49'
L6	N 89°57'03" E	30.07'

CURVE	RADIUS	LENGTH	CHORD	CHD BEARING	DELTA
C1	32.00'	50.27'	45.25'	S 45°02'57" E	90°00'00"
C2	32.00'	50.27'	45.25'	S 44°57'03" W	90°00'00"
C3	42.00'	41.93'	40.21'	N 61°26'52" W	57°12'10"
C4	32.00'	68.58'	56.19'	N 28°33'08" E	122°47'50"



THOMAS & HUTTON
 Engineering | Surveying | Planning | GIS | Consulting
 215 South Kerr Avenue • Unit B
 Wilmington, NC 28403 • 910.332.3360
 www.thomasandhutton.com
 Savannah, GA | Brunswick, GA | Charleston, SC | Myrtle Beach, SC



CONTRACT DATE: XX.XX.XX
 BUILDING TYPE: LARGE 50 NI
 PLAN VERSION: AUGUST 2012
 SITE NUMBER: 12-0278
 STORE NUMBER: XXXXX

TACO BELL
 4422 SOUTH 17TH STREET
 FULTON STATION, NC



SHEET TITLE:
**AUTOTURN
 EXHIBIT**

JOB NO: J-24078.0001
 DATE: 02-12-2013
 DRAWN BY: KWL
 DESIGNED: KWL
 REVIEWED: JHR
 APPROVED: JHR
 SCALE: 1" = 20'

SHEET NO:
1 of 1

NOTES:

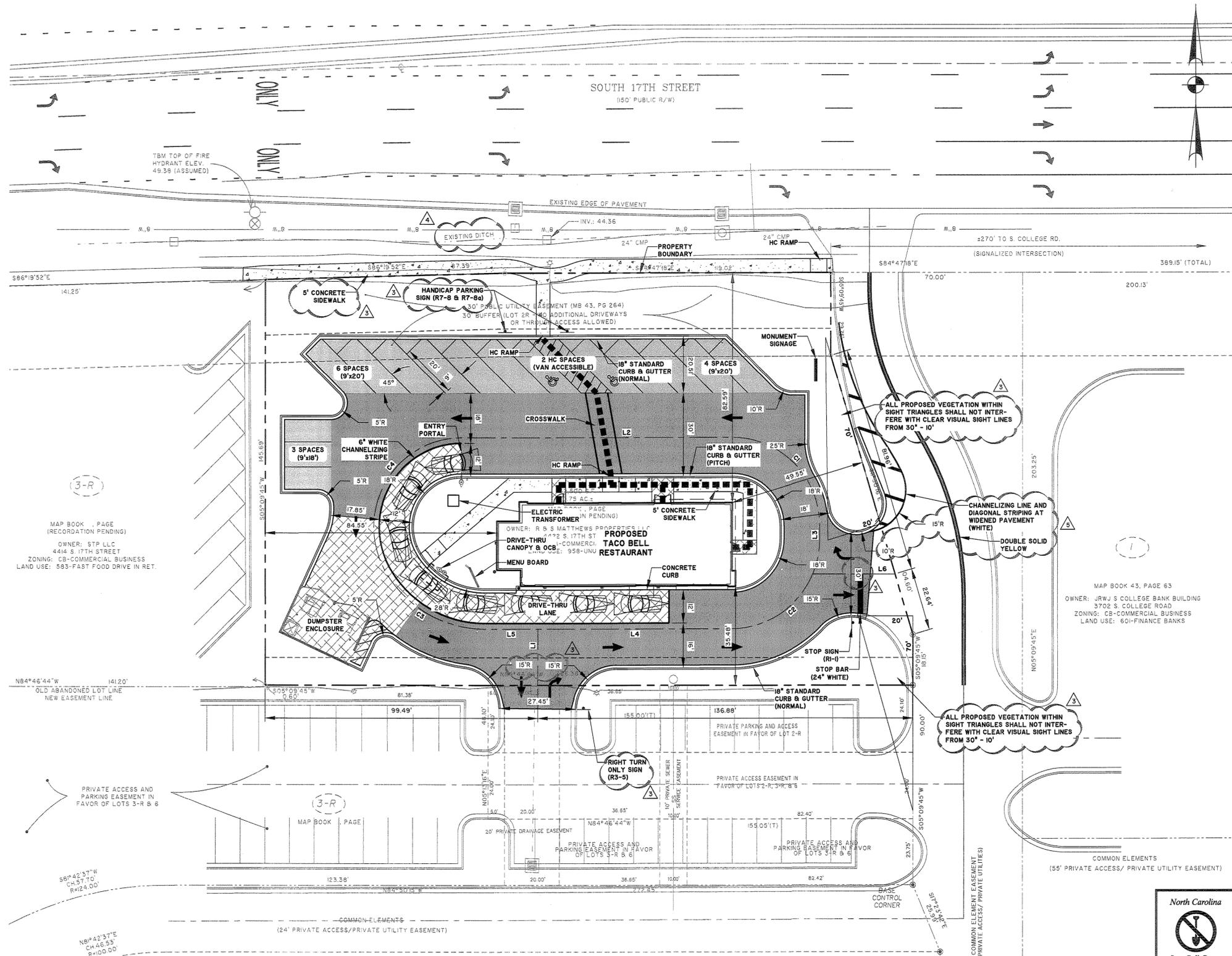
1. **ACCESSIBLE ROUTE - EXTERIOR:**
MINIMUM CLEAR WIDTH IS 5'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'x5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.
2. **FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS:**
A. 0 TO 1/4": NO REQUIREMENTS
B. 1/4" TO 1/2": BEVEL WITH 1:2 SLOPE
C. LARGER THAN 1/2": CONFORM TO REQUIREMENTS FOR RAMP
3. **RAMPS:**
• MAX RAMP SLOPE 8.33% (1:12)
• RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE
• MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30')
• MAX CROSS SLOPE OF RAMP 2% (1:50)
- 3A. **LANDINGS:**
• RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP.
• LANDING SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT.
• LANDING LENGTH SHALL BE MINIMUM 5' CLEAR.
• IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'x5'.
• ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
4. **CURB RAMPS:**
• MAX SLOPE OF CURB RAMP 8.33%
• MAX SLOPE OF SIDE FLARES 10%
• MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%
• MIN WIDTH 36" (NOT INCLUDING SIDE FLARES).
• DETECTABLE WARNING IS REQUIRED ON CURB RAMPS AT TRAFFIC AISLES, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.
5. **PAVEMENT MARKINGS:**
• AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)
6. **HANDICAP PARKING SPACES:**
• MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE
• MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES
• MINIMUM 6' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES
• MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION
7. **SIGNAGE:**
ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBTUSCURED BY A VEHICLE PARKED IN THE SPACE (60" ABOVE GRADE UNLESS OTHER HEIGHT REQUIRED BY LOCAL JURISDICTION).
8. **ACCESSIBLE ROUTES:**
MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2003.

LEGEND

- LIGHT-DUTY ASPHALT PAVEMENT
- HEAVY-DUTY ASPHALT PAVEMENT
- BLACK CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- ACCESSIBLE ROUTE

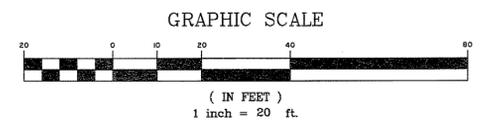
CITY OF WILMINGTON GENERAL NOTES:

- A. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- B. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- C. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- D. ALL PAVEMENT MARKINGS REGULATING DIRECTIONAL TRAFFIC FLOW SHALL BE THERMOPLASTIC.
- E. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- F. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. IN CERTAIN CASES, AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- G. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.
- H. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY APRON PANELS AND CURB AND GUTTER SECTIONS WILL BE REPLACED.
- I. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
- J. CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- K. TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.



LINE	BEARING	LENGTH
L1	S 0°02'57" E	20.24'
L2	N 89°57'03" E	98.78'
L3	S 0°02'57" E	4.58'
L4	S 89°57'03" W	70.88'
L5	S 89°57'03" W	19.49'
L6	N 89°57'03" E	30.07'

CURVE	RADIUS	LENGTH	CHORD	CHD BEARING	DELTA
C1	32.00'	50.27'	45.25'	S 45°02'57" E	90°00'00"
C2	32.00'	50.27'	45.25'	S 44°57'03" W	90°00'00"
C3	42.00'	41.93'	40.21'	N 61°26'52" W	57°12'10"
C4	32.00'	68.58'	58.19'	N 28°33'08" E	122°47'50"



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Professional Engineer
JOHN H. RICHARDS
No. 24,544
24 JAN 13
Professional Engineer
THOMAS & HUTTON
ENGINEERING
CO.
No. F-0871

CONTRACT DATE: XXXXXX
BUILDING TYPE: LARGE 50 NI
PLAN VERSION: AUGUST 2012
SITE NUMBER: 12-0276
STORE NUMBER: XXXXX

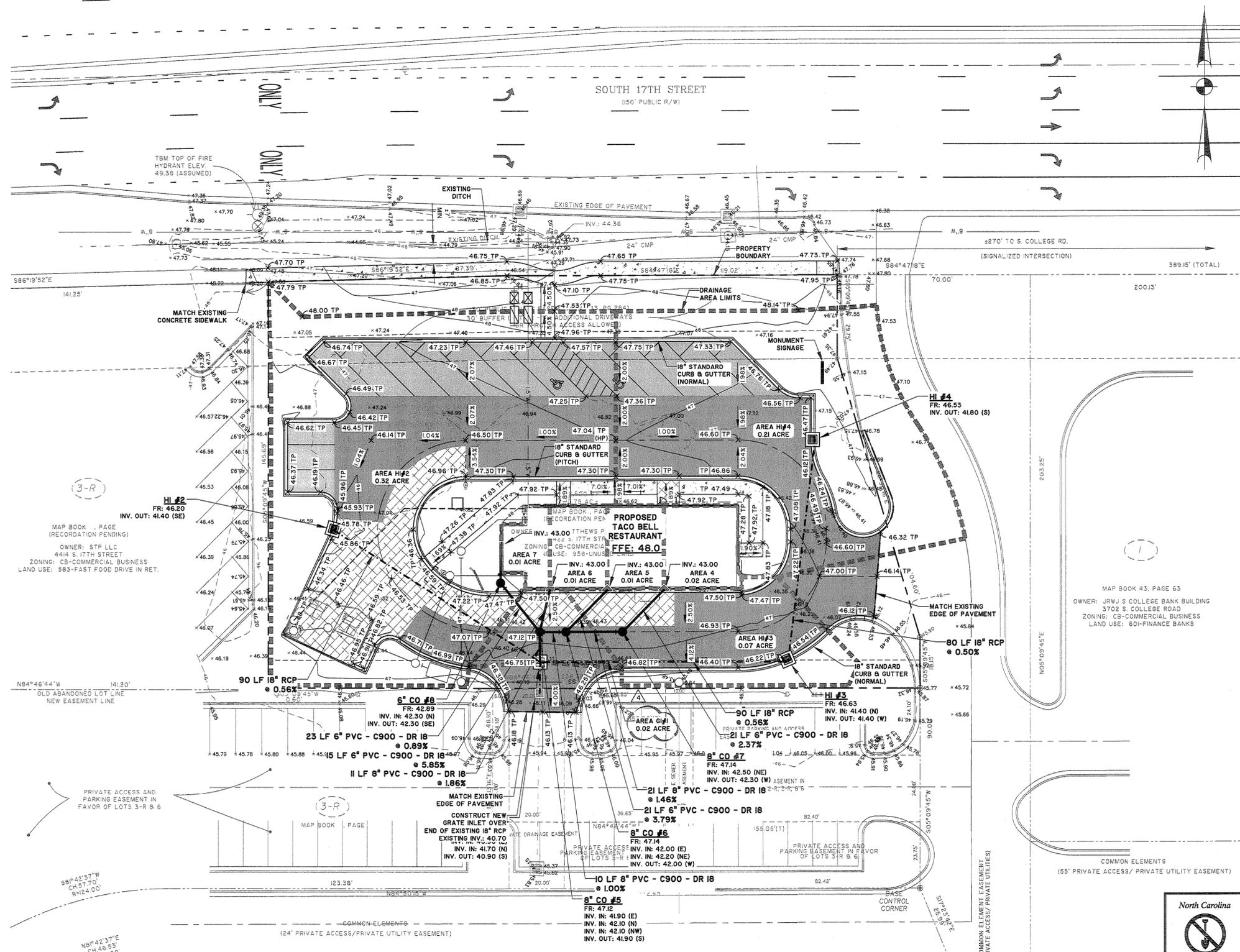
TACO BELL
4422 SOUTH 17TH STREET
FULTON STATION, NC



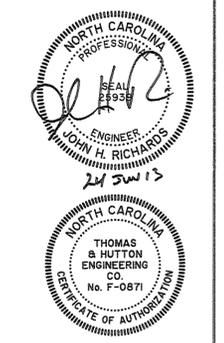
SHEET TITLE:
SITE DEVELOPMENT PLAN

JOB NO: J-24078.0001
DATE: 02-12-2013
DRAWN BY: KWL
DESIGNED: KWL
REVIEWED: JHR
APPROVED: JHR
SCALE: 1" = 20'

SHEET NO:
C1.2



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- △ 6-24-13 REVISED PER CITY
- △ 5-13-13 REVISED PER CITY
- △ 3-27-13 REVISED PER CITY

CONTRACT DATE: XX.XX.XX
 BUILDING TYPE: LARGE 50 NI
 PLAN VERSION: AUGUST 2012
 SITE NUMBER: 12-0276
 STORE NUMBER: XXXXX

TACO BELL
 4422 SOUTH 17TH STREET
 FULTON STATION, NC



SHEET TITLE:
PAVING, GRADING, AND DRAINAGE PLAN

JOB NO: J-24079.0001
 DATE: 02-12-2013
 DRAWN BY: KWL
 DESIGNED BY: KWL
 REVIEWED BY: JHR
 APPROVED BY: JHR
 SCALE: 1" = 20'

SHEET NO:
C3.1

CITY OF WILMINGTON STANDARD NOTES:

1. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
3. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
4. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
5. ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
6. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
7. PROJECT SHALL COMPLY WITH CITY OF WILMINGTON CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
8. IF THE CONTRACTOR DESIRES CITY WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
9. ANY IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
10. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCHH OR ASSE.

NCDENR PERMIT & IMPERVIOUS AREA SUMMARY:
 PROPERTY BOUNDARY AREA: 32,500 SF
 OFFSITE STORMWATER PERMIT #SW6 981023
 COASTAL WETLANDS: 0 SF
 PROPOSED ON-SITE IMPERVIOUS (BUA):
 BUILDING: 2,489 SF
 PARKING: 18,056 SF
 SIDEWALK: 989 SF
 FUTURE: 6,111 SF
 TOTAL: 27,625 SF
 PERCENT ON-SITE IMPERVIOUS: ±85%
 PROPOSED OFF-SITE IMPERVIOUS: 1,024 SF (SIDEWALK ALONG 17TH STREET)

