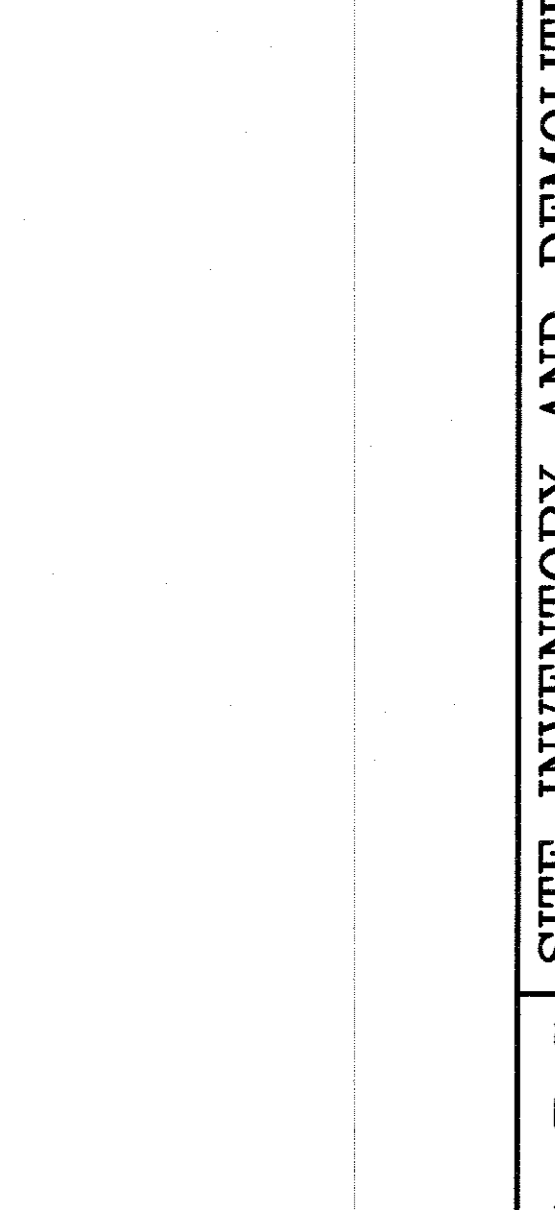
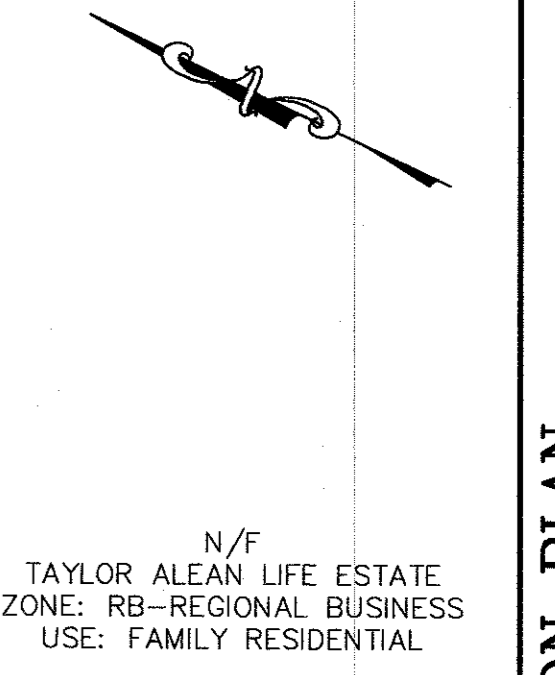


REVISIONS		
No./Date	Description	By



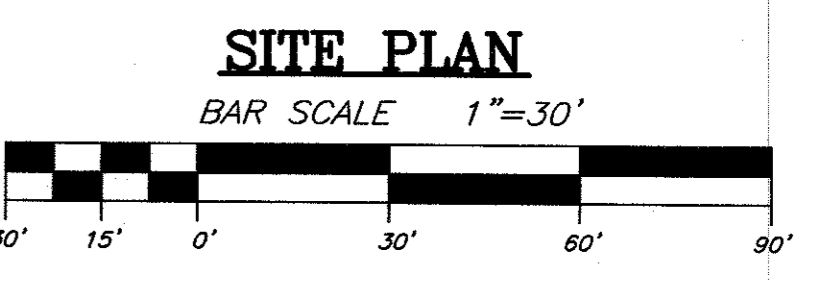
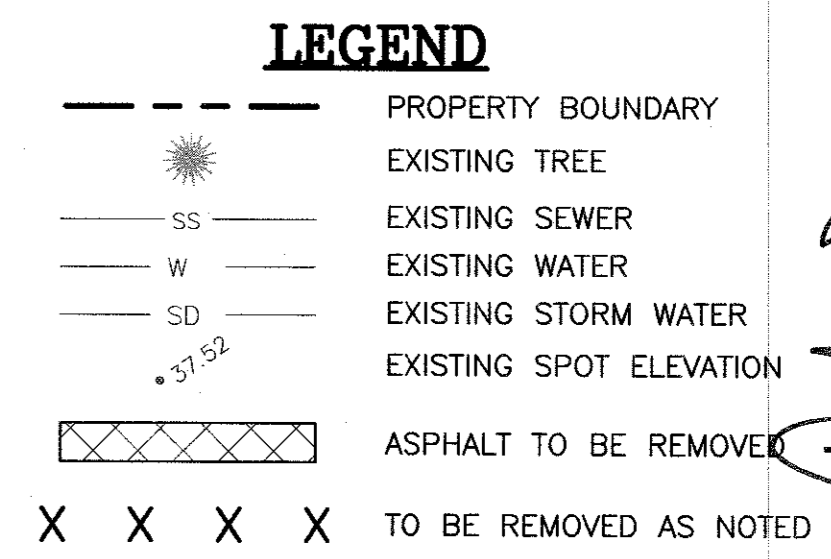
PLEASE NOTE: ALL EXISTING ASPHALT AND CURBING TO BE REMOVED

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

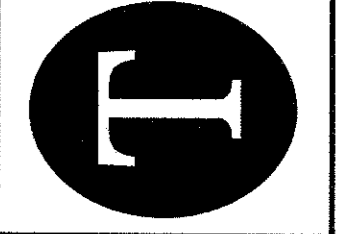
Public Services • Engineering Division
   
**APPROVED STORMWATER MANAGEMENT PLAN**
  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_
   
 Signed: \_\_\_\_\_

- SITE INVENTORY NOTES:**
- PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
  - APPLICANT NAME: PARKWAY VOLVO
  - SITE ADDRESS OF THE DEVELOPMENT: 5820 MARKET ST.
  - PROPERTY OWNER: WILMINGTON AUTO GROUP PROPERTIES, LLC
  - DEVELOPER: PARKWAY VOLVO
  - PROPERTY BOUNDARY: SEE PLAN  
TAX PARCEL INFORMATION: R05010-001-003-000
  - PROPERTY ZONING: RB-REGIONAL BUSINESS
  - ADJACENT PROPERTY OWNER INFORMATION: SEE PLAN
  - VICINITY MAP: SEE PLAN
  - TOPOGRAPHY: SEE PLAN
  - 100-YEAR FLOOD BOUNDARY: N/A
  - EXISTING DITCHES, CREEKS AND STREAMS: SEE PLAN
  - SOIL: Se; SEAGATE FINE SAND
  - CAMA AEC: N/A
  - CAMA LAND CLASSIFICATION: URBAN
  - CONSERVATION RESOURCES: NONE  
ASSOCIATED SETBACKS: N/A
  - HISTORIC OR ARCHAEOLOGICAL SITE: N/A
  - CEMETERIES, BURIAL SITES/GROUNDS: N/A
  - FORESTED AREAS, HABITAT AND DOMINANT SPECIES: N/A
  - WETLANDS: NO WETLANDS EXIST ON SITE
  - PROTECTED SPECIES OR HABITAT: N/A
  - EXISTING OR PROPOSED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN



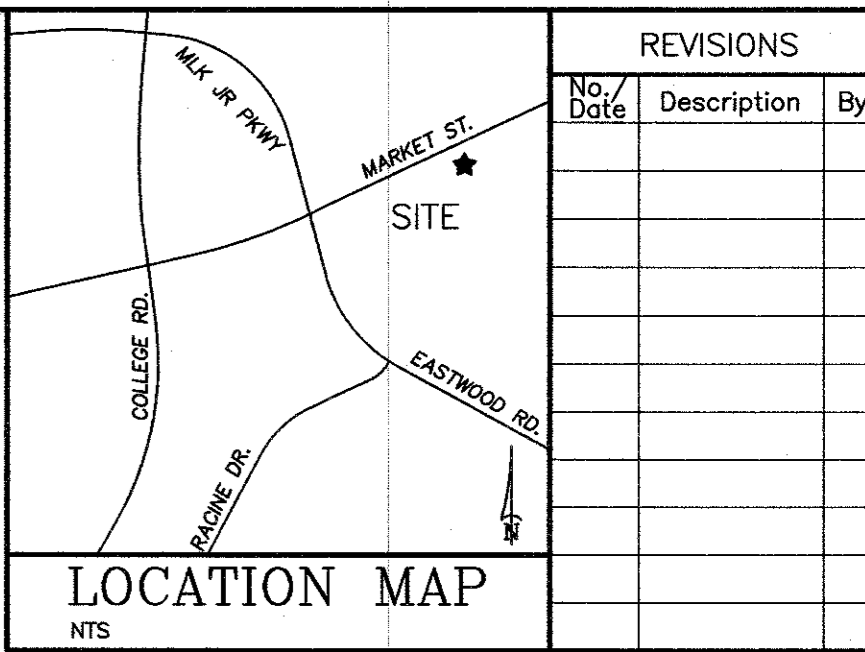
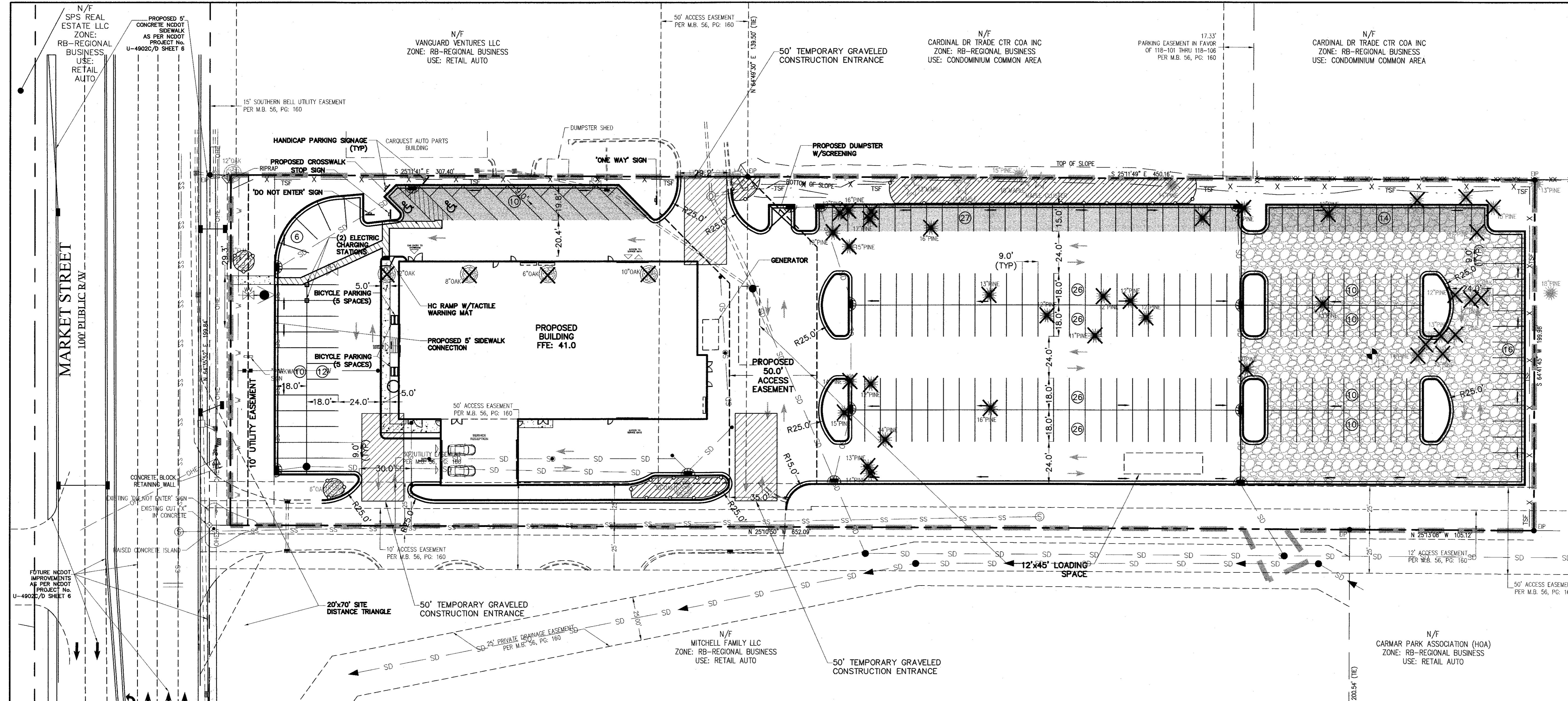
**SITE INVENTORY AND DEMOLITION PLAN**  
**PARKWAY VOLVO**  
 OWNER: WILMINGTON AUTO GROUP PROPERTIES LLC  
 ADDRESS: 5820 MARKET ST., WILMINGTON, NC

**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
 © LICENSE NO. 2-1157



DATE	11-14-18
DESIGN	PGT
DRAWN	EJW

**C1**  
 SHEET 1 OF 5  
 17069



REVISIONS		
No./Date	Description	By

N/F TAYLOR ALEAN LIFE ESTATE  
 ZONE: RB-REGIONAL BUSINESS  
 USE: FAMILY RESIDENTIAL

N/F CARMAR PARK ASSOCIATION (HOA)  
 ZONE: RB-REGIONAL BUSINESS  
 USE: RETAIL AUTO

N/F MITCHELL FAMILY LLC  
 ZONE: RB-REGIONAL BUSINESS  
 USE: RETAIL AUTO

N/F VANGUARD VENTURES LLC  
 ZONE: RB-REGIONAL BUSINESS  
 USE: RETAIL AUTO

N/F SPS REAL ESTATE LLC  
 ZONE: RB-REGIONAL BUSINESS  
 USE: RETAIL AUTO

N/F CARDINAL DR TRADE CTR COA INC  
 ZONE: RB-REGIONAL BUSINESS  
 USE: CONDOMINIUM COMMON AREA

**SITE AND TREE REMOVAL PLAN**

**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
 © 2018 TRIPP ENGINEERING, P.C.  
 LICENSE NO. 35-127

**PARKWAY VOLVO**  
 OWNER: WILMINGTON AUTO GROUP PROPERTIES LLC  
 ADDRESS: 5820 MARKET ST., WILMINGTON, NC

**NOTES:**

**ZONING:**

- 1) TOPOGRAPHY AND TREE SURVEY COMPLETED BY ATLANTIC COAST SURVEY, PLLC.
- 2) PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- 4) EXISTING EASEMENTS AS SHOWN.
- 5) CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 6) UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0966.
- 7) A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT (910)341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 8) 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. (SD 15-14 C&W TECH STDS)

**SOLID WASTE:**

- 1) SITE TO USE ON-SITE DUMPSTER.

**TRAFFIC:**

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. (DETAIL SD-13 C&W TECH STDS)
- 2) ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. (DETAIL SD-13 C&W TECH STDS)
- 3) CONTRACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- 4) 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, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- 6) CONTRACT TRAFFIC ENGINEERING AT 741-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 7) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 8) NO ROWS TO BE CLOSED.
- 9) NO STREETS PROPOSED.
- 10) NO OFF SITE PARKING PROPOSED.
- 11) NO PROPOSED DRIVEWAY.
- 12) TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 13) ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- 14) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 15) TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- 16) A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
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**FIRE AND LIFE SAFETY:**

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- 2) NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE
- 3) HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE)
- 4) FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT
- 5) LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC
- 6) ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- 7) PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0999
- 8) ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.

**NOTES: (CONT'D)**

**LANDSCAPING:**

- 1) PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROUPS OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- 2) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- 3) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.
- 4) ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30"-10'.

**CFPIA:**

- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPIA) DETAILS AND SPECIFICATIONS.
- 2) PROJECT SHALL COMPLY WITH THE CFPIA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- 3) IF THE CONTRACTOR DESIRES CFPIA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPIA WATER SHALL COMPLY WITH THE CFPIA'S CONNECTION CONTROL, REGULATION, CALL 332-8419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPIA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USFCO/COOR OR ASSE.
- 6) PUBLIC WATER AND SEWER EXIST ON MARKET STREET.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

**DESIGN:**

- 1) SITE TO DRAIN TO A PERMITTED OFFSITE STORMWATER POND. NCDOT PERMIT NO. SWB 000847 & SWB 120617 CITY OF WILMINGTON PERMIT NO. 2004022 & 2012023

**SITE DATA: (CONT'D)**

EXISTING ON-SITE IMPERVIOUS AREAS:	
EXISTING BUILDINGS	-
EXISTING ASPHALT	48,507 SF
EXISTING CONCRETE	-
TOTAL EXISTING IMPERVIOUS AREA	48,507 SF (32%)
EXISTING ON-SITE IMPERVIOUS TO BE REMOVED	-48,507 SF
PROPOSED ON-SITE IMPERVIOUS AREAS:	
PROPOSED BUILDING	17,265 SF
PROPOSED ASPHALT	76,505 SF
PROPOSED CONCRETE	835 SF
TOTAL PROPOSED IMPERVIOUS AREA	94,605 SF (63.7%)
EXISTING IMPERVIOUS TO REMAIN	0 SF
FUTURE	9,118 SF
PROPOSED-EXISTING IMPERVIOUS	109,311 SF (72.2%)
PARKING REQUIRED: (AUTOMOBILE DEALER)	17,265 SF
REAR: 15'	-
MAXIMUM: 1/500 SF (17,265/500)	35
TOTAL PARKING PROVIDED:	239
CAMA LAND USE:	URBAN
PUBLIC WATER AND SEWER BY CFPIA	
EXISTING WATER FLOW:	0 GPD
EXISTING SEWER FLOW:	0 GPD
PROPOSED WATER FLOW:	600 GPD
PROPOSED SEWER FLOW:	500 GPD
HANDICAP SPACES REQUIRED (1-2% SPACES=1 HANDICAP SPACE)	PROPOSED
55 SPACES/25=1.4	2 HANDICAP SPACE
BICYCLE PARKING REQUIRED: (35 SPACES)	10 SPACES
BICYCLE PARKING PROPOSED:	10 SPACES

**SITE DATA:**

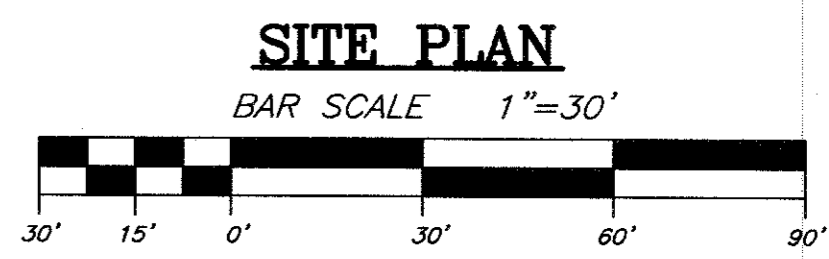
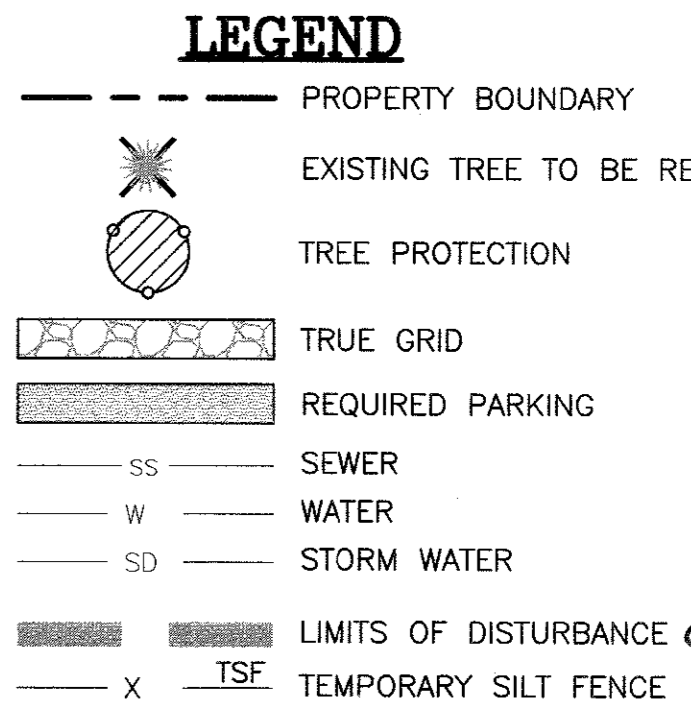
PROPERTY OWNER	WILMINGTON AUTO GROUP PROPERTIES LLC
PROJECT ADDRESS	5820 MARKET ST
PIN NUMBER	RO5010-001-003-000
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE.	
ZONING DISTRICT	RB-REGIONAL BUSINESS
DISTURBED AREA:	3.47 AC.
SETBACKS REQUIRED	FRONT: 25' REAR: 15' INTERIOR SIDE: 0' CORNER LOT SIDE: 25'
PROPOSED BUILDING SETBACKS	FRONT: 101' REAR: 464' SIDE: 42' CORNER LOT SIDE: N/A
TRACT AREA	151,429 SF (3.47 AC)
BUILDING TYPE	AUTOMOBILE DEALER
PROPOSED BUILDING AREA (GROSS)	17,500 SF
BUILDING LOT COVERAGE (15,850/151,429)	10%
NUMBER OF UNITS	1
NUMBER OF BUILDINGS	1
BUILDING HEIGHT	22'
NUMBER OF STORIES	2
SF PER FLOOR 1ST FLOOR (GROSS)	15,850 SF
SF PER FLOOR 2ND FLOOR (GROSS)	1,650 SF

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**Approved Construction Plan**

Name	Date
Planning	
Traffic	
Fire	

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
**APPROVED STORMWATER MANAGEMENT PLAN**  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_



11-14-18

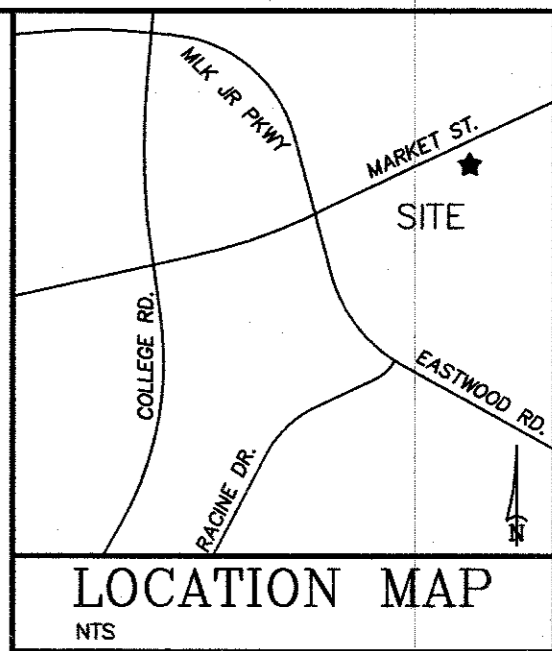
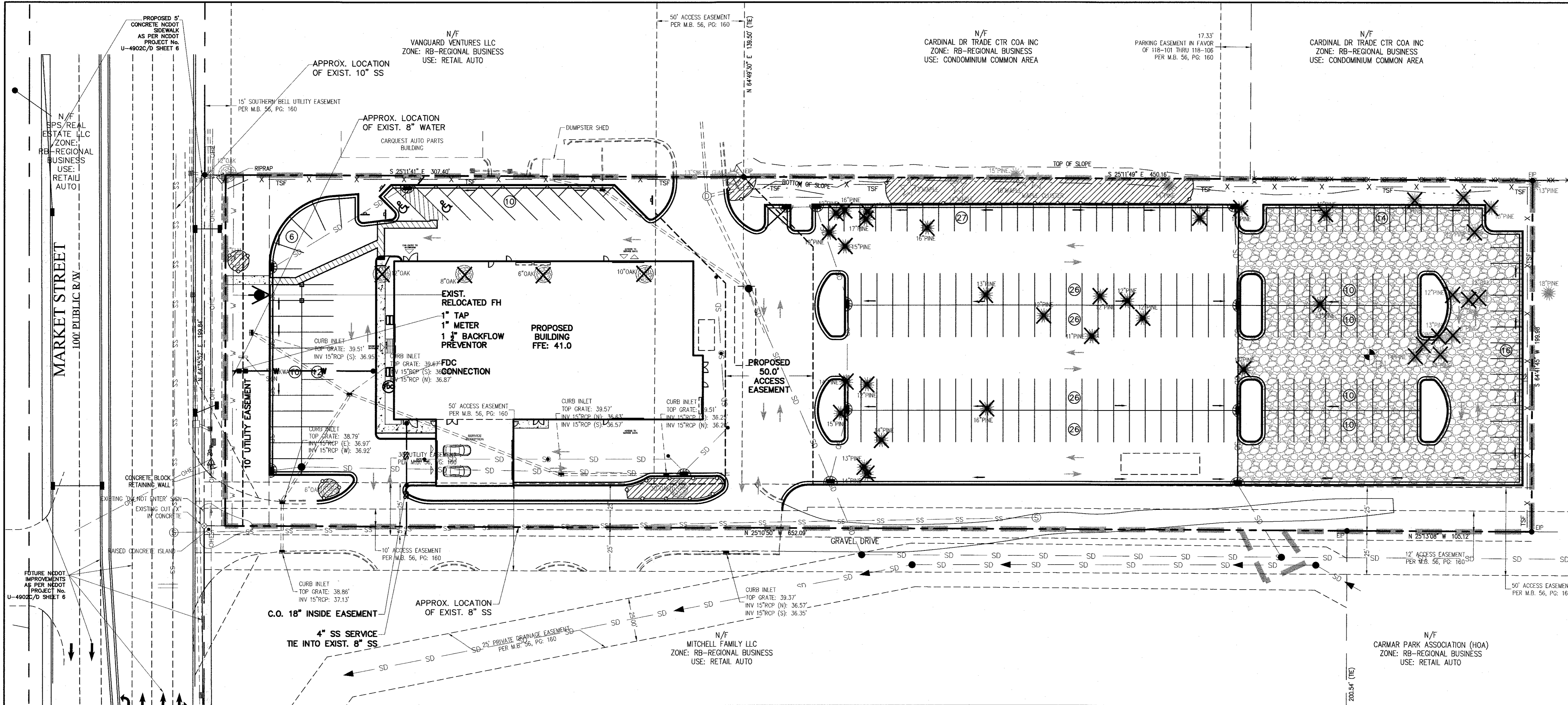
**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
 © 2018 TRIPP ENGINEERING, P.C.  
 LICENSE NO. 35-127

**SEAL**  
 NORTH CAROLINA  
 PROFESSIONAL ENGINEER  
 17374  
 PHILIP GREGORY TRIPP

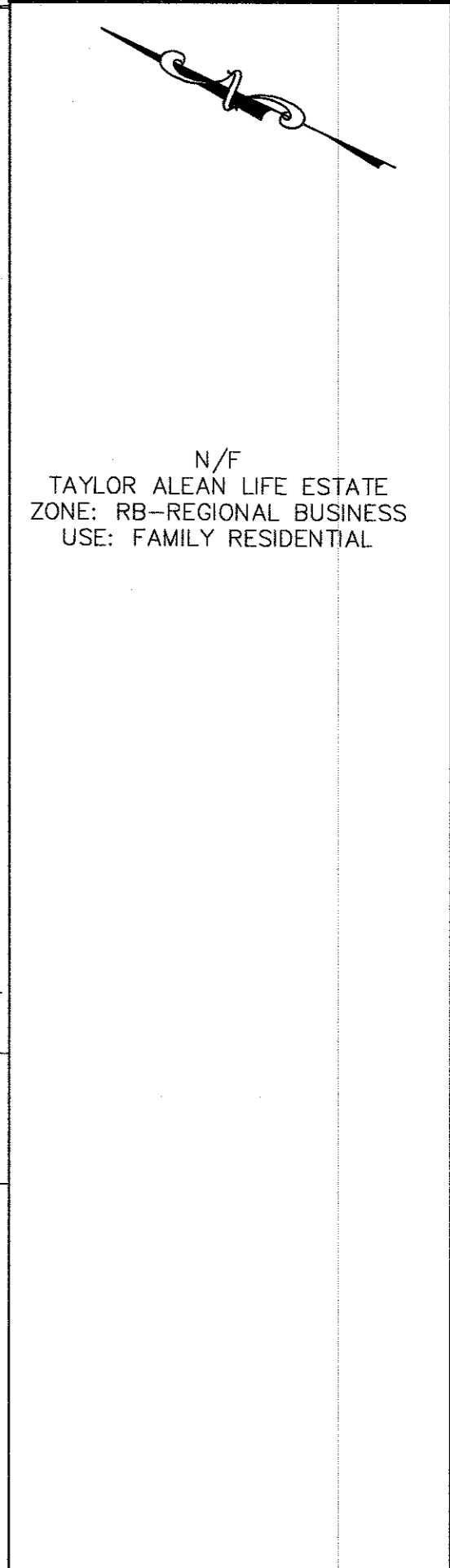
DATE 11-14-18  
 DESIGN PGT  
 DRAWN EJW

**C2**

SHEET 2 OF 5  
 17069



REVISIONS		
No.	Date	Description



N/F  
TAYLOR ALEAN LIFE ESTATE  
ZONE: RB-REGIONAL BUSINESS  
USE: FAMILY RESIDENTIAL

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**Approved Construction Plan**

Name	Date
Planning	
Traffic	
Fire	

**City of WILMINGTON**  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

**SITE DATA:**

PROPERTY OWNER	WILMINGTON AUTO GROUP PROPERTIES LLC
PROJECT ADDRESS	5820 MARKET ST
PIN NUMBER	05010-001-003-000
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE.	
ZONING DISTRICT	RB-REGIONAL BUSINESS
DISTURBED AREA:	3.47 Ac.
SETBACKS REQUIRED	FRONT: 25' REAR: 15' INTERIOR SIDE: 0' CORNER LOT SIDE: 25'
PROPOSED BUILDING SETBACKS	FRONT: 101' REAR: 464' SIDE: 42' CORNER LOT SIDE: N/A
TRACT AREA	151,429 SF (3.47 AC)
BUILDING USE	AUTOMOBILE DEALER
BUILDING TYPE	IB
PROPOSED BUILDING AREA (GROSS)	17,500 SF
BUILDING LOT COVERAGE (15,850/151,429)	10%
NUMBER OF UNITS	1
NUMBER OF BUILDINGS	22
BUILDING HEIGHT	2
SF PER FLOOR 1ST FLOOR (GROSS)	15,850 SF
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**SITE DATA: (CONT'D)**

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EXISTING IMPERVIOUS TO REMAIN	0 SF
PERVIOUS PARKING (22,795 W/60% CREDIT)	9,118 SF
FUTURE	3,588 SF
PROPOSED+EXISTING IMPERVIOUS	109,311 SF (72.2%)
PARKING REQUIRED: (AUTOMOBILE DEALER)	17,265 SF
MAXIMUM:	35
MINIMUM: 1/500 SF (17,265/500)	
TOTAL PARKING PROVIDED:	239
CAMA LAND USE:	URBAN
PUBLIC WATER AND SEWER BY CFPWA	
EXISTING WATER FLOW:	0 GPD
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PROPOSED WATER FLOW:	600 GPD
PROPOSED SEWER FLOW:	500 GPD
HANDICAP SPACES REQUIRED (4 SPACES/1 HANDICAP SPACE)	PROPOSED
35 SPACES/25=1.4	2 HANDICAP SPACES
BICYCLE PARKING REQUIRED: (35 PARKS)	10 SPACES
BICYCLE PARKING PROPOSED:	10 SPACES

**NOTES:**

**ZONING**

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**SOLID WASTE**

- 1) SITE TO USE ON-SITE DUMPSTER.

**TRAFFIC**

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. (DETAIL SD-13 CoW TECH STDS)
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- 8) ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.

**NOTES: (CONT'D)**

**LANDSCAPING**

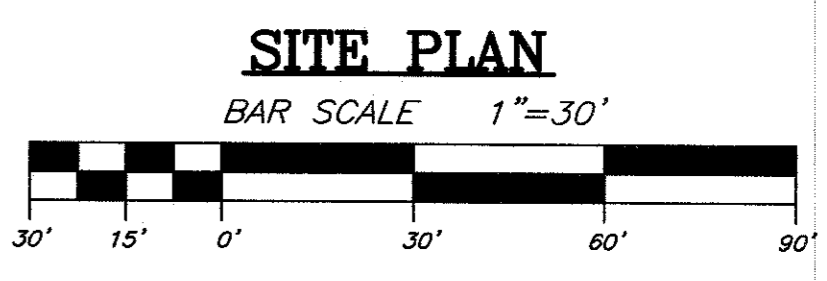
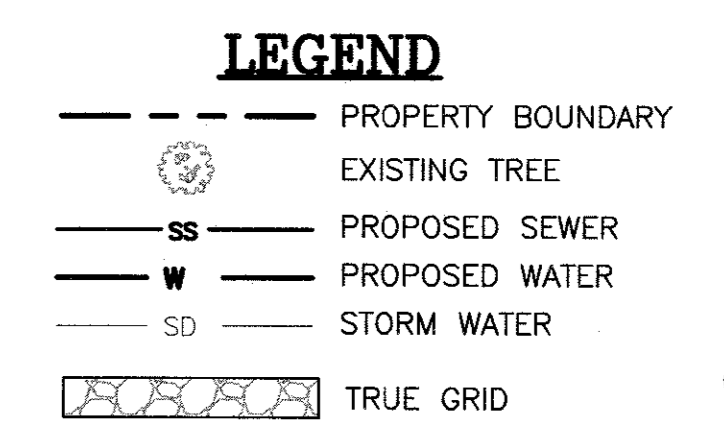
- 1) PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- 2) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- 3) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.
- 4) ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.

**CFPWA**

- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPWA) DETAILS AND SPECIFICATIONS.
- 2) PROJECT SHALL COMPLY WITH THE CFPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- 3) IF THE CONTRACTOR DESIRES CFPWA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA WATER SHALL COMPLY WITH THE CFPWA'S CONNECTION CONTROL REGULATION. CALL 332-8419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USFOCORR OR ASSE.
- 6) PUBLIC WATER AND SEWER EXIST ON MARKET STREET.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-6949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

**DRAINAGE**

- 1) SITE TO DRAIN TO A PERMITTED OFFSITE STORMWATER POND. NCDCE PERMIT NO. SWB 000647 & SWB 120617 CITY OF WILMINGTON PERMIT NO. 2004022 & 2012023



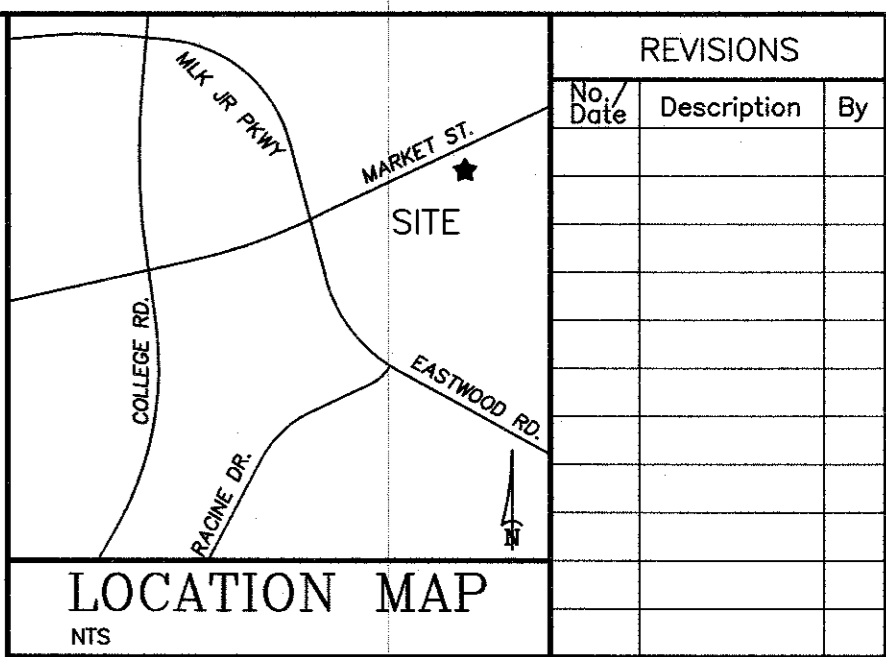
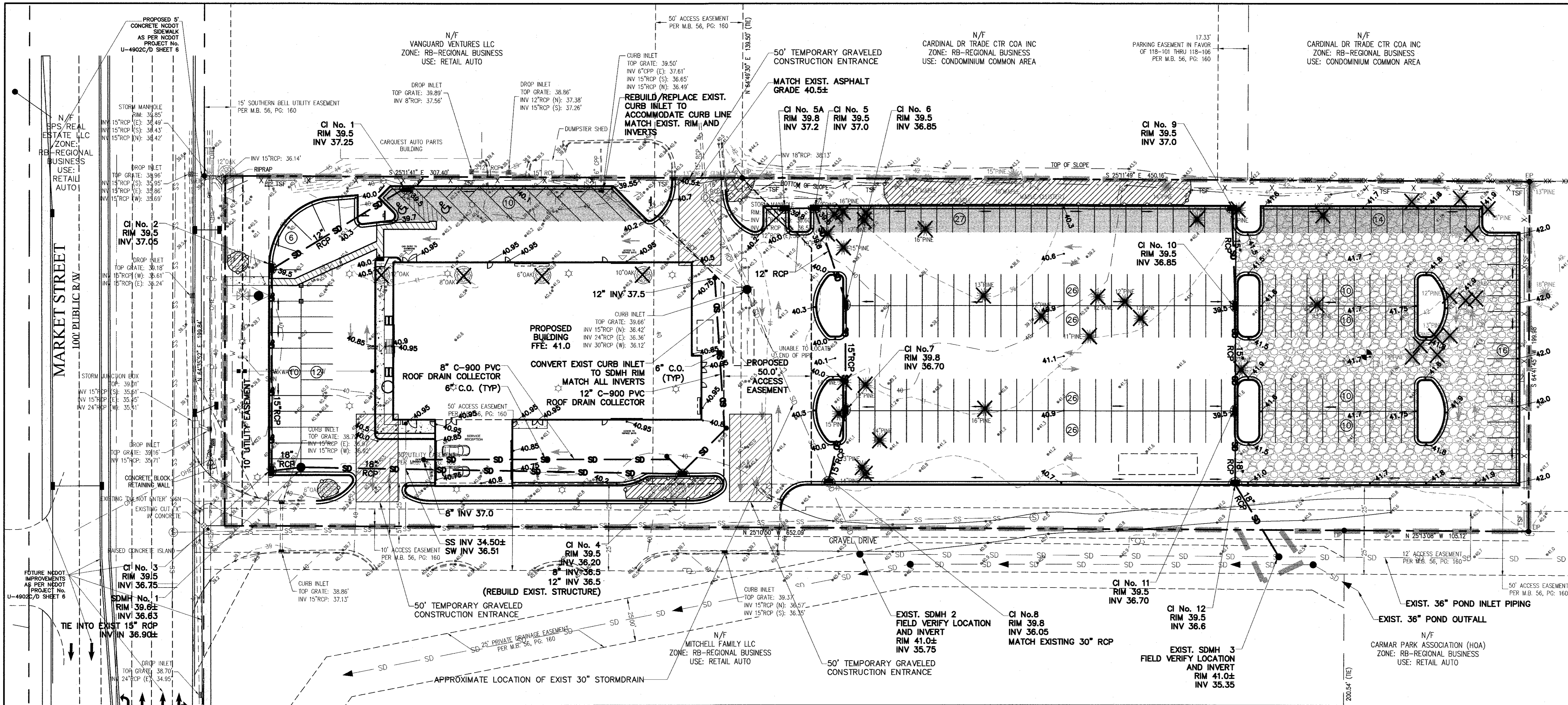
**TRIPP ENGINEERING, P.C.**  
419 Chestnut Street  
Wilmington, North Carolina 28401  
Phone 910-763-5100  
Fax 910-763-5631  
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**PHILIP GREGORY TRIPP**  
REGISTERED PROFESSIONAL ENGINEER  
17374

DATE 11-14-18  
DESIGN PGT  
DRAWN EJW

**C3**

SHEET 3 OF 5  
17069



REVISIONS		
No.	Date	Description

N/F  
TAYLOR ALEAN LIFE ESTATE  
ZONE: RB-REGIONAL BUSINESS  
USE: FAMILY RESIDENTIAL

N/F  
CARDINAL DR TRADE CTR COA INC  
ZONE: RB-REGIONAL BUSINESS  
USE: CONDOMINIUM COMMON AREA

N/F  
VANGUARD VENTURES LLC  
ZONE: RB-REGIONAL BUSINESS  
USE: RETAIL AUTO

N/F  
MITSHELL FAMILY LLC  
ZONE: RB-REGIONAL BUSINESS  
USE: RETAIL AUTO

N/F  
CARMAR PARK ASSOCIATION (HOA)  
ZONE: RB-REGIONAL BUSINESS  
USE: RETAIL AUTO

GRADING, DRAINAGE, EROSION CONTROL AND  
STORMWATER MANAGEMENT PLAN  
**PARKWAY VOLVO**  
OWNER: WILMINGTON AUTO GROUP PROPERTIES LLC  
ADDRESS: 5820 MARKET ST., WILMINGTON, NC

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**Approved Construction Plan**

Name	Date
Planning	
Traffic	
Fire	

City of WILMINGTON NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**SITE DATA:**

PROPERTY OWNER	WILMINGTON AUTO GROUP PROPERTIES LLC
PROJECT ADDRESS	5820 MARKET ST
PIN NUMBER	ROS010-001-003-000
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE.	
ZONING DISTRICT	RB-REGIONAL BUSINESS
DISTURBED AREA:	3.47 Ac.
SETBACKS REQUIRED	FRONT: 25' REAR: 15' INTERIOR SIDE: 0' CORNER LOT SIDE: 25'
PROPOSED BUILDING SETBACKS	FRONT: 101' REAR: 464' SIDE: 42' CORNER LOT SIDE: N/A
TRACT AREA	151,429 SF (3.47 AC)
BUILDING USE	AUTOMOBILE DEALER
BUILDING LOT COVERAGE (15,850/151,429)	17,500 SF
NUMBER OF UNITS	10X
NUMBER OF BUILDINGS	22
BUILDING HEIGHT	2
SF PER FLOOR 1ST FLOOR (GROSS)	15,850 SF
SF PER FLOOR 2ND FLOOR (GROSS)	1,650 SF

**SITE DATA: (CONT'D)**

EXISTING ON-SITE IMPERVIOUS AREAS:	
EXISTING BUILDINGS	48,507 SF
EXISTING ASPHALT	
EXISTING CONCRETE	
TOTAL EXISTING IMPERVIOUS AREA	48,507 SF (32%)
EXISTING ON-SITE IMPERVIOUS TO BE REMOVED	-48,507 SF
PROPOSED ON-SITE IMPERVIOUS AREAS:	
PROPOSED BUILDING	17,265 SF
PROPOSED ASPHALT	75,505 SF
PROPOSED CONCRETE	835 SF
TOTAL PROPOSED IMPERVIOUS AREA	96,605 SF (63.7%)
EXISTING IMPERVIOUS TO REMAIN	0 SF
PERVIOUS PARKING (22,795 W/60% CREDIT)	9,118 SF
FUTURE	3,588 SF
PROPOSED+EXISTING IMPERVIOUS	109,311 SF (72.2%)
PARKING REQUIRED: (AUTOMOBILE DEALER)	17,265 SF
MAXIMUM:	35
MINIMUM: 1/500 SF (17,265/500)	
TOTAL PARKING PROVIDED:	239
CAMA LAND USE:	URBAN
PUBLIC WATER AND SEWER BY CFPUA	
EXISTING WATER FLOW:	0 GPD
EXISTING SEWER FLOW:	0 GPD
PROPOSED WATER FLOW:	600 GPD
PROPOSED SEWER FLOW:	500 GPD
HANDICAP SPACES REQUIRED (1-2% SPACES=1 HANDICAP SPACE)	50
(5 SPACES/25=1.4)	2 HANDICAP SPACES
BICYCLE PARKING REQUIRED: (35 PARKS)	10 SPACES
BICYCLE PARKING PROVIDED:	10 SPACES

**NOTES:**

**ZONING**

- TOPOGRAPHY AND TREE SURVEY COMPLETED BY ATLANTIC COAST SURVEY, PLLC.
- PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- EXISTING EASEMENTS AS SHOWN.
- CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0966.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT (910)341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 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. (SD 15-14 COW TECH STDS)

**SOLID WASTE**

- SITE TO USE ON-SITE DUMPSTER.

**TRAFFIC**

- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. (DETAIL SD-13 COW TECH STDS)
- ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. (DETAIL SD-13 COW TECH STDS)
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- IF A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET, CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- NO ROWS TO BE CLOSED.
- NO STREETS PROPOSED.
- NO OFF-SITE PARKING PROPOSED.
- NO PROPOSED DRIVEWAY.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
- HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
- FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPIDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0999.
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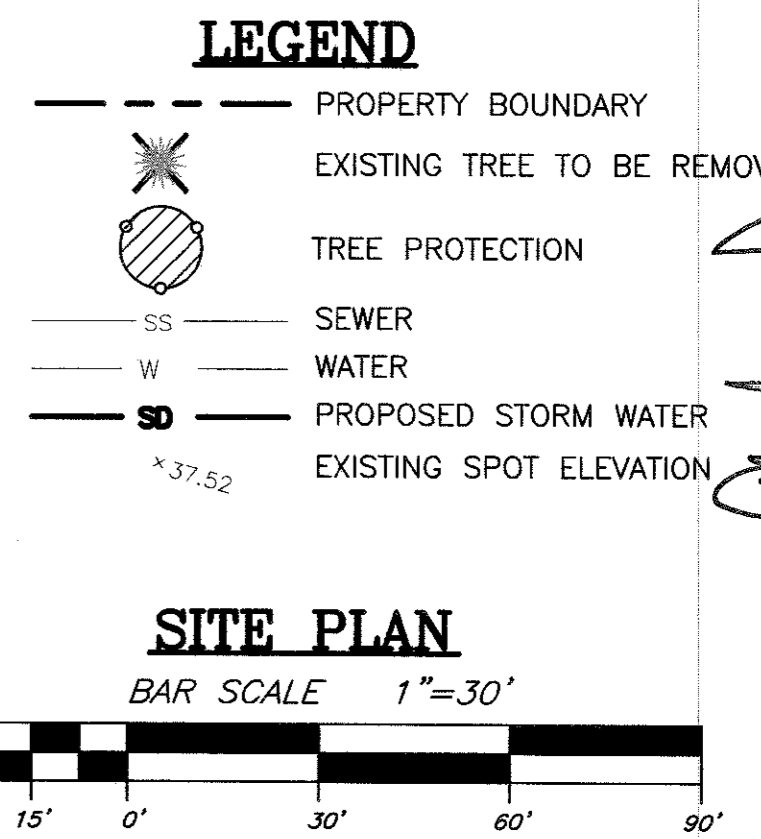
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**DEWATERING**

- SITE TO DRAIN TO A PERMITTED OFFSITE STORMWATER POND. NCDOT PERMIT NO. SWB 000847 & SWB 120617 CITY OF WILMINGTON PERMIT NO. 2004022 & 2012023



**TRIPP ENGINEERING, P.C.**  
419 Chestnut Street  
Wilmington, North Carolina 28401  
Phone 910-763-5100  
Fax 910-763-5681  
© LICENSE NO. EC-1927

11-14-18

DATE 11-14-18  
DESIGN PGT  
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SHEET 4 OF 5  
17069

