

VICINITY MAP  
N.T.S.

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

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

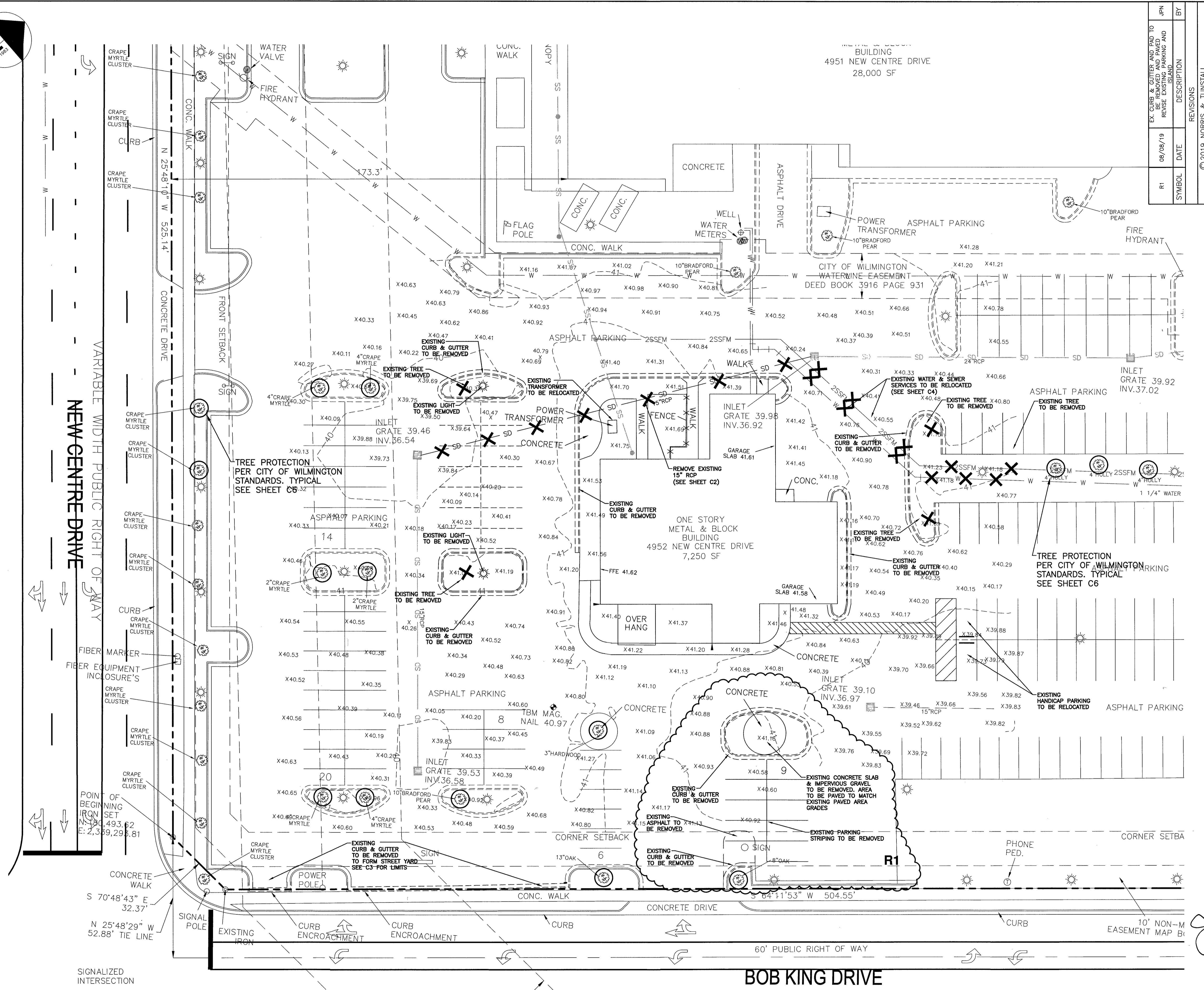
DEMOLITION NOTES:  
1. SEE ARCHITECTURAL PLANS FOR BUILDING DEMOLITION.  
2. COORDINATE UTILITY DISCONNECTIONS AND RELOCATIONS WITH LOCAL UTILITY PROVIDERS AND CAPE FEAR PUBLIC UTILITY AUTHORITY FOR WATER AND SEWER.

**LEGEND**

	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING STORM DRAIN
	EXISTING STORM DRAIN TO BE REMOVED
	EXISTING WATER SERVICE TO BE REMOVED
	EXISTING 2" SS FORCEMAIN TO BE REMOVED
	EROSION CONTROL AROUND DROP INLET

FLOW ACURA TREE REMOVAL

SPECIES	SIZE	REGULATED/SIGNIFICANT	REQUIRED MITIGATION/EXEMPTION
BRADFORD PEAR	11"	REGULATED	EXEMPT PER SEC. 18-461 (b)
BRADFORD PEAR	15"	REGULATED	EXEMPT PER SEC. 18-461 (b)
HOLLY	4"	REGULATED	EXEMPT PER SEC. 18-461 (b)
HARDWOOD	3"	NOT REGULATED	EXEMPT DUE TO SIZE PER SEC. 18-456 (a)(b)
HARDWOOD	4"	NOT REGULATED	EXEMPT DUE TO SIZE PER SEC. 18-456 (a)(b)



REV	DATE	DESCRIPTION	BY
R1	08/08/19	EX. CURB & GUTTER AND PAD TO BE REMOVED AND PAVED REUSE EXISTING BAND	JPN

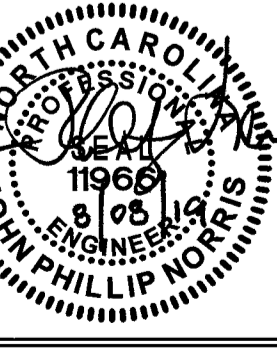
EXISTING CONDITIONS / DEMOLITION PLAN  
WILMINGTON ACURA  
4952 NEW CENTRE DRIVE  
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:  
FLOW ACURA NEW CENTRE, LLC  
500 WEST FIFTH ST, SUITE 1800  
WINSTON-SALEM, NC 27101  
(336) 422-0061  
dfhow@flowauto.com

**NORRIS & TUNSTALL**  
CONSULTING ENGINEERS P.C.  
1900 EASTWOOD RD., SUITE #11  
WILMINGTON, NC 28403  
PHONE (910) 343-9653  
1429 ASH-LITTLE RIVER RD NW  
ASH, NC 28420  
PHONE (910) 287-5900

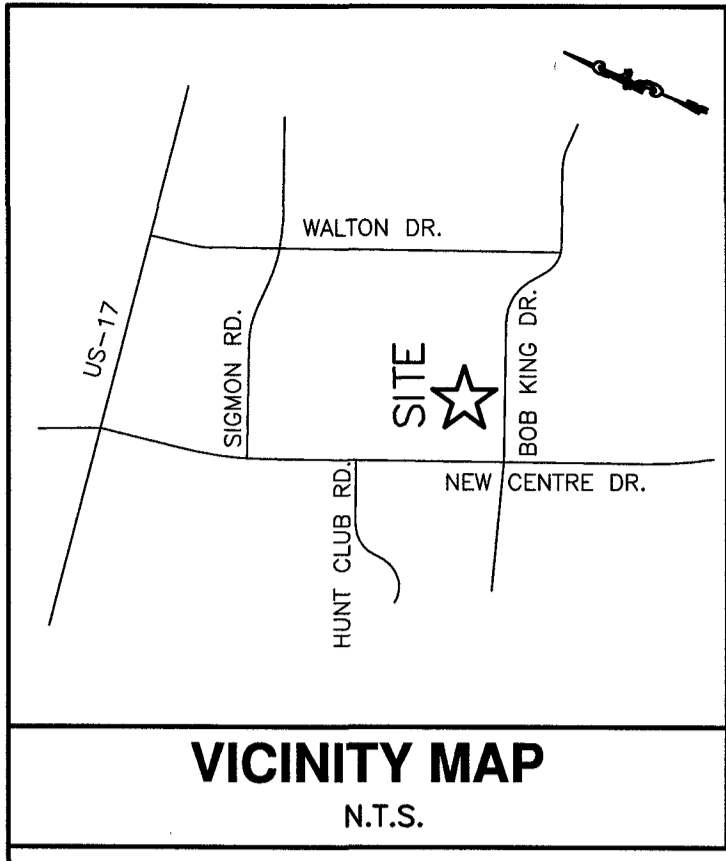
Licence #C-3641

DES.	JPN
CHK.	JPN
DRWN.	EDB



**C1**

SCALE: 1" = 20'



**Approved Construction Plan**

Name	Date
Planning	
Traffic	
Fire	

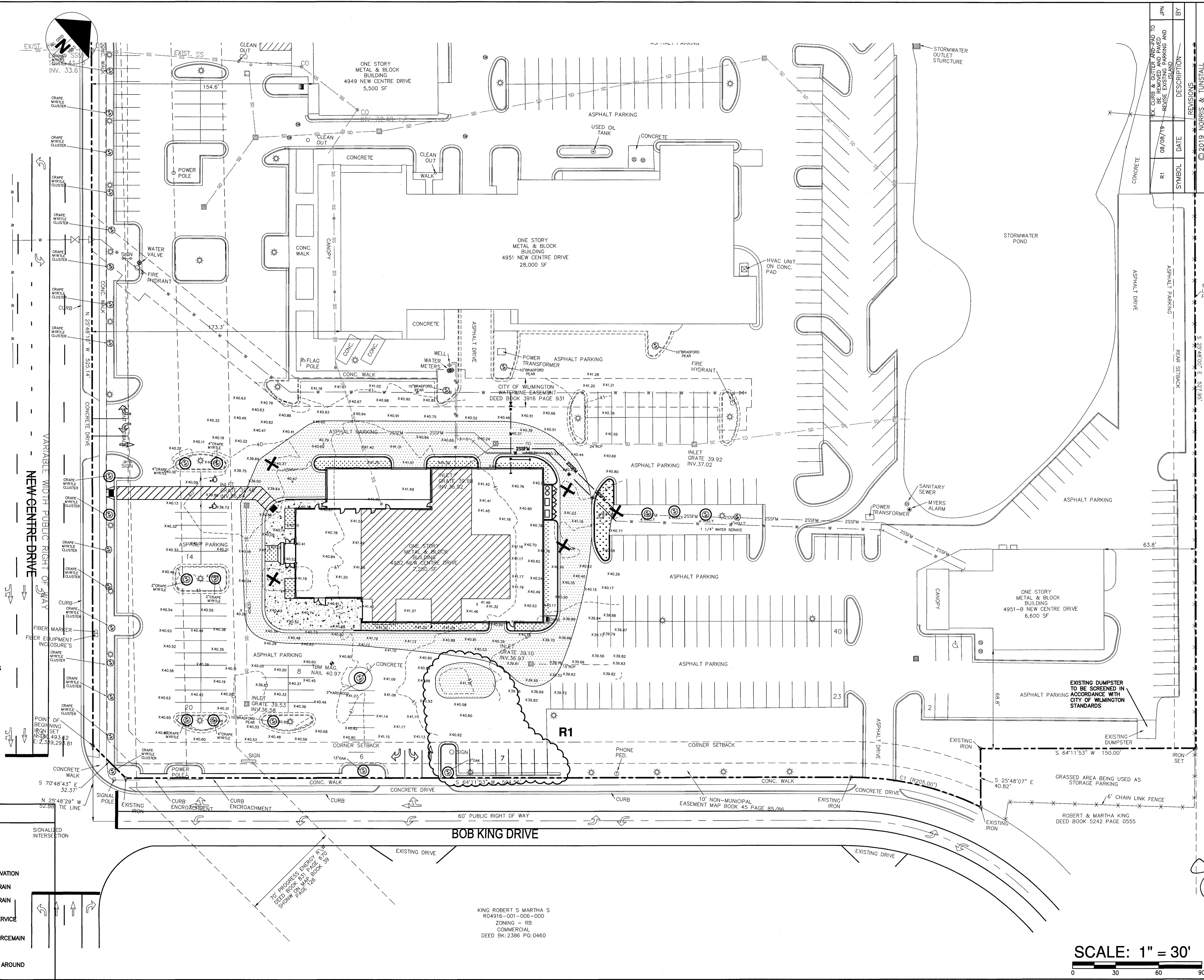
**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
**APPROVED STORMWATER MANAGEMENT PLAN**

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

**DEMOLITION NOTES:**  
1. SEE ARCHITECTURAL PLANS FOR BUILDING DEMOLITION.  
2. COORDINATE UTILITY DISCONNECTIONS AND RELOCATIONS WITH LOCAL UTILITY PROVIDERS AND CAPE FEAR PUBLIC UTILITY AUTHORITY FOR WATER AND SEWER.

**LEGEND**

---	PROPERTY LINE
- - - -	RIGHT OF WAY
- - - -	EXISTING CONTOUR
- - - -	EXISTING SPOT ELEVATION
SD	EXISTING STORM DRAIN
X SD	EXISTING STORM DRAIN TO BE REMOVED
X W	EXISTING WATER SERVICE TO BE REMOVED
X 25SF	EXISTING 2" SS FORCEMAIN TO BE REMOVED
⊗	EROSION CONTROL AROUND DROP INLET



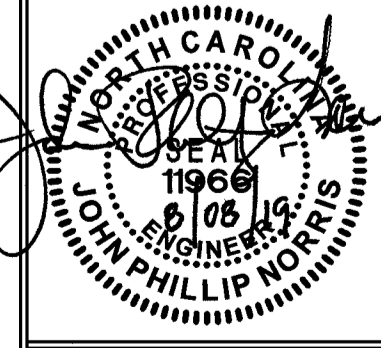
REVISIONS	DATE	DESCRIPTION	BY
R1	06/08/19	EX. CURB & GUTTER AND PAD TO BE REMOVED IN EXISTING PARKING AND ISLAND	JPN

**SITE OVERLAY**  
**WILMINGTON ACURA**  
4952 NEW CENTRE DRIVE  
NEW HANOVER COUNTY, NORTH CAROLINA

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(336) 422-0061  
dfhow@flowauto.com

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WILMINGTON, NC 28403 ASH, NC 28420  
PHONE (910) 343-9633 PHONE (910) 287-5900

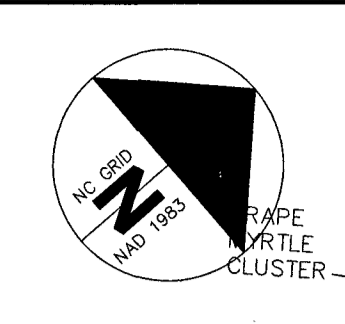
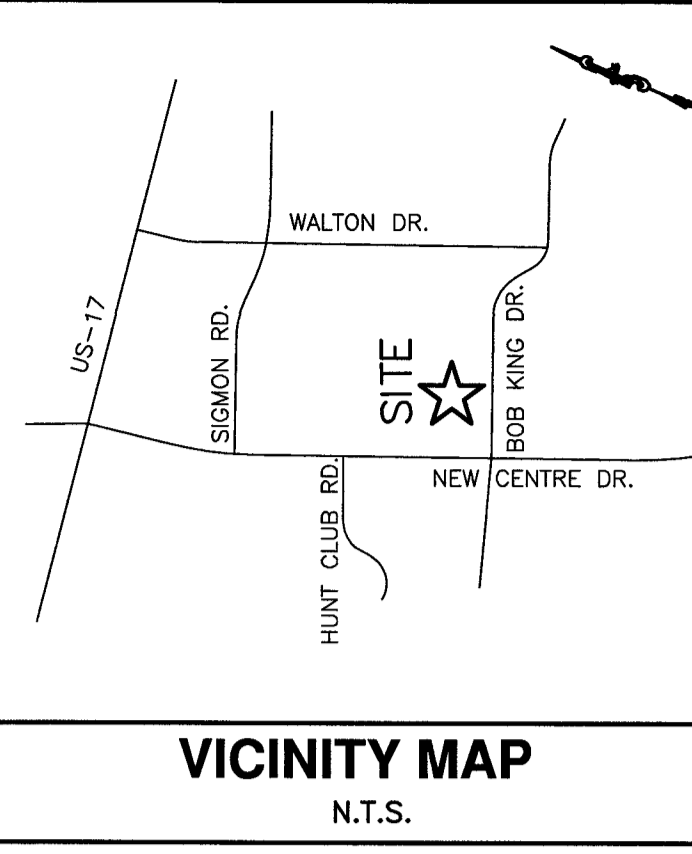
Licence #C-3641  
**18131**  
DES. JPN  
CHK. JPN  
DRWN. EDB  
DATE 06/12/19



**C1.1**

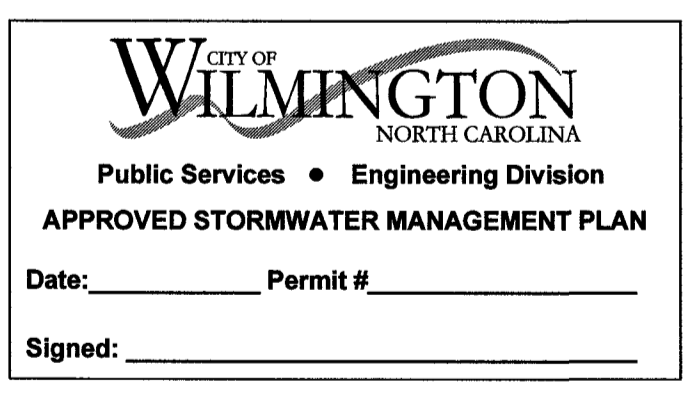
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KING ROBERT S. MARTHA S  
R04916-001-008-000  
ZONING - RB  
COMMERCIAL  
DEED BK: 2386 PG: 0460

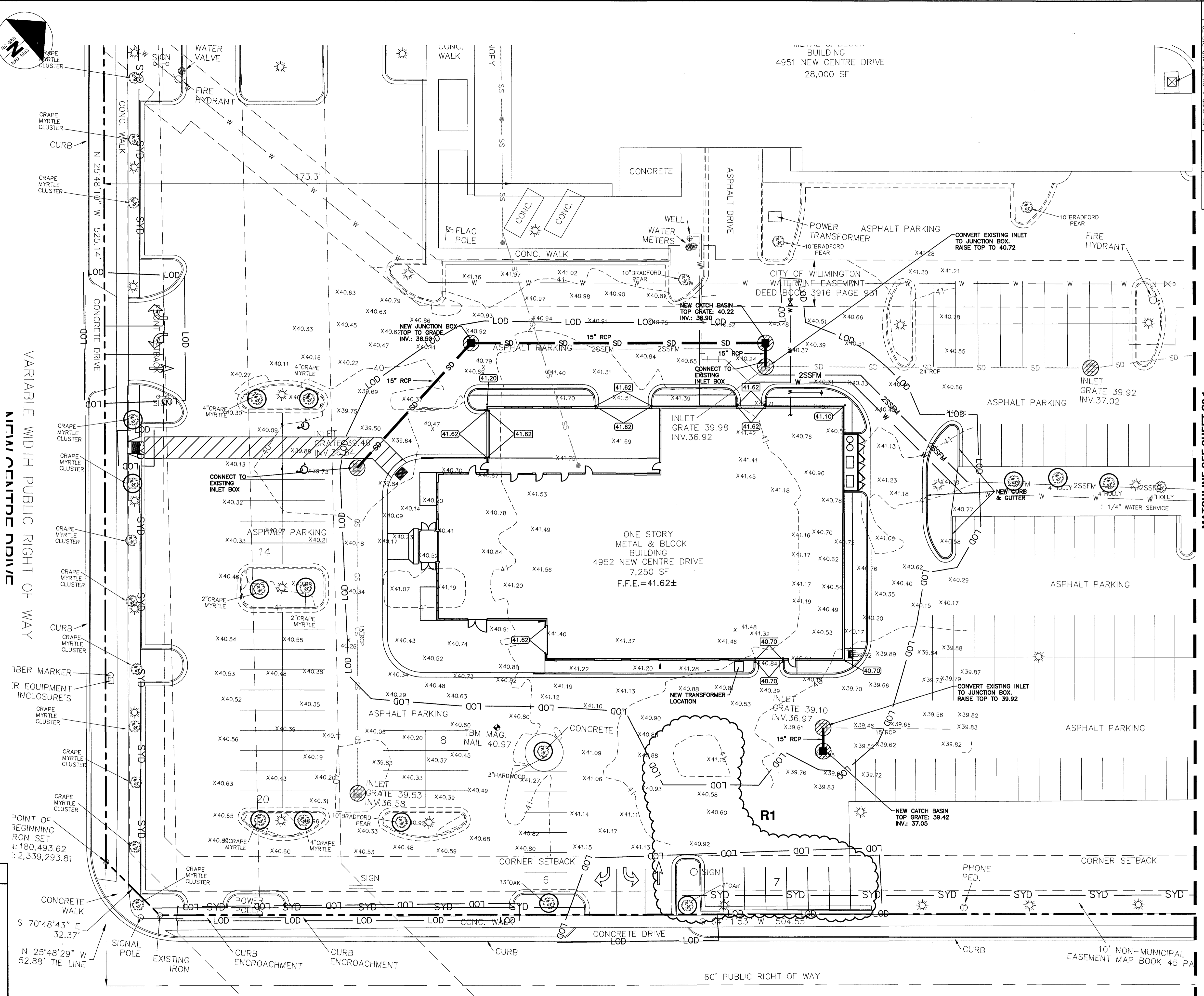


VARIABLE WIDTH PUBLIC RIGHT OF WAY  
NEM/ CENTRE DRIVE

Approved Construction Plan		
Name	Date	
Planning		
Traffic		
Fire		



LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	EROSION CONTROL AROUND DROP INLET
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE



MATCHLINE SEE SHEET C2.1

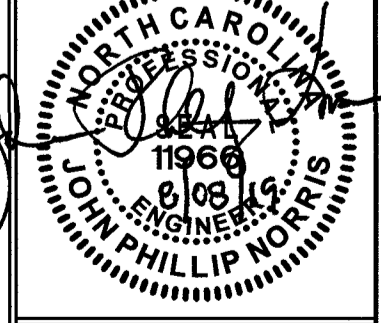
REVISIONS	
NO.	DESCRIPTION
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02	REVISE EXISTING PARKING AND ISLAND
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49	REVISE EXISTING PARKING AND ISLAND
50	REVISE EXISTING PARKING AND ISLAND

**GRADING PLAN**  
**WILMINGTON ACURA**  
 4952 NEW CENTRE DRIVE  
 NEW HANOVER COUNTY, NORTH CAROLINA

**OWNER:**  
 FLOW 4951 NEW CENTRE LLC  
 500 WEST 11TH ST, SUITE 1800  
 WILMINGTON, NC 27101  
 (336) 222-0061  
 flow@flowauto.com

**NORRIS & TUNSTALL**  
 CONSULTING ENGINEERS P.C.  
 1900 EASTWOOD RD., SUITE #11 1429 ASH-LITTLE RIVER RD. NW  
 WILMINGTON, NC 28403 ASH, NC 28620  
 PHONE (910) 343-9665 PHONE (910) 287-5900

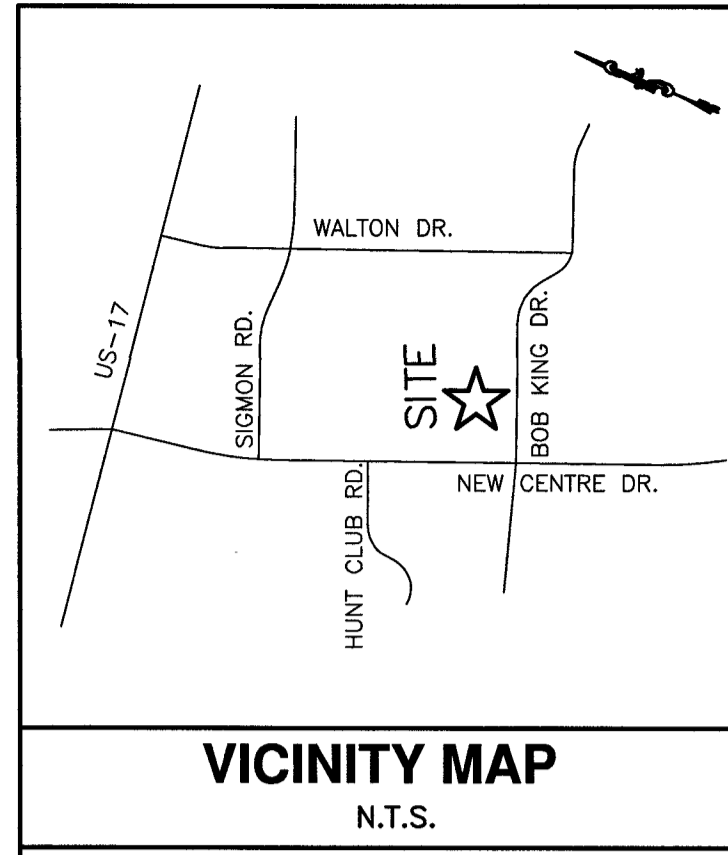
Licence #C-3641  
**18131**  
 DES. JPN  
 C.D. JPN  
 DRWN. EDB  
 DATE 08/08/19



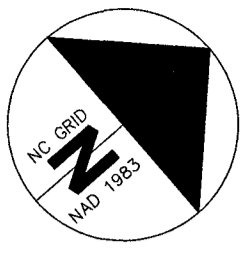
**BOB KING DRIVE**

SCALE: 1" = 20'

**C2**



VICINITY MAP  
N.T.S.



Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

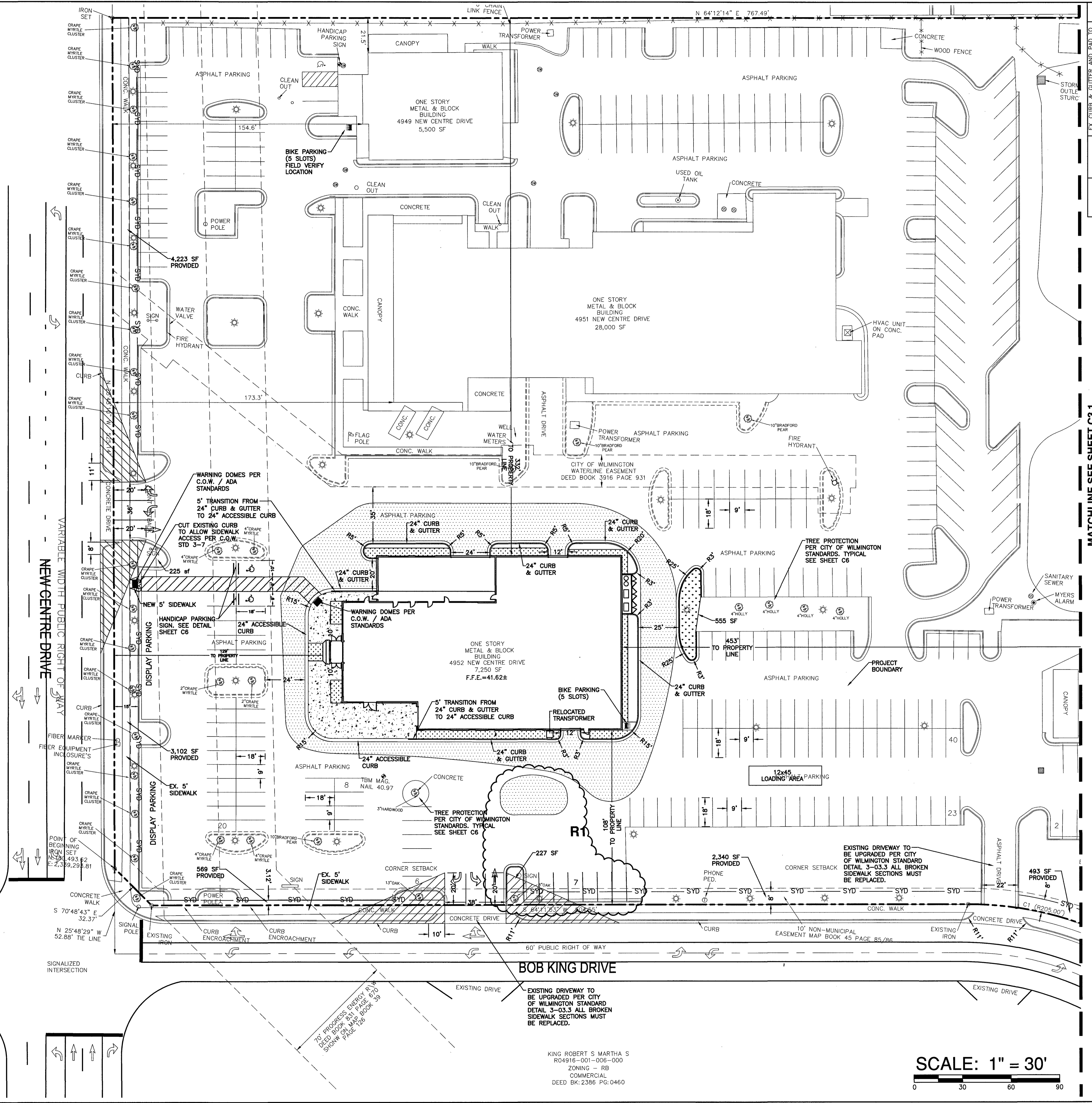


APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

- NOTES:
1. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. (SD 11-03 AND SD 15-13). SEE SHEET C6.
  2. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. (SD 15-13) SEE SHEET C6.
  3. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
  4. ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED.
  5. 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.
  6. IF PAVEMENT MARKINGS ON SITE HAVE WEATHERED TO THE POINT THEY ARE NOT IN ACCORDANCE WITH THE MUTCD STANDARD OF MAINTENANCE, IT IS DEVELOPER'S RESPONSIBILITY TO MAINTAIN IT IN ACCORDANCE.
  7. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.
  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 PLAN.
  9. EXISTING DUMPSTER TO BE SCREENED IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS.

SITE DATA

PARCEL #:	R04916-001-014-000
ZONING:	RB
TOTAL AREA:	10.01 AC / 436,036 SF
EXISTING BUILDING SF: (SITE)	47,350 SF
EXISTING BUILDING SF:	7,230 SF (FLOW ACURA ONLY)
% EXISTING BUILDING TO REMAIN:	58% (FLOW ACURA ONLY)
PROPOSED BUILDING SF:	17,422 SF (FLOW ACURA ONLY)
BUILDING LOT COVERAGE:	13.84% [(17,422+7,259+2,628+30,506)/417,740]
NUMBER OF BUILDINGS:	4 EXISTING (1 EXISTING TO BE RENOVATED)
BUILDING HEIGHT:	29 FEET
BUILDING CONSTRUCTION TYPE:	IB
NUMBER OF STORIES:	1 (FLOW ACURA ONLY)
SF PER FLOOR:	17,422 SF (FLOW ACURA ONLY)
SETBACKS:	
FRONT:	25'
REAR:	15'
CORNER SIDE:	25'
EX. PARKING:	
EX SPACES:	538 SPACES (INCLUDES 2 HANDICAP)
EX SPACES TO BE REMOVED:	20 SPACES
EX SPACES TO REMAIN:	518 SPACES (INCLUDES 2 HANDICAP)
PARKING REQUIRED:	
REQUIRED: (RESTAURANT) 1 SPACE PER 4 SEATS	(66 / 4) = 16.5 SPACES
REQUIRED: (AUTOMOTIVE DEALERSHIP) 1 SPACE PER 500 SF	(52,022 / 500) = 104.04 SF
PARKING REQUIRED TOTAL:	120.54 (121)
PARKING:	
CUSTOMER PARKING:	121 SPACES
DISPLAY PARKING:	395 SPACES
TOTAL SPACES:	516 SPACES (INCLUDES 2 HANDICAP)
BICYCLE PARKING REQUIRED:	
REQUIRED: 5 BICYCLE SPACES PER 100 CAR SPACES	121 CAR SPACES REQUIRED = 10 BICYCLE SPACES
TOTAL PERMITTED IMPERVIOUS:	353,425 SF
TOTAL EXISTING IMPERVIOUS:	280,257 SF
EXISTING IMPERVIOUS TO BE REMOVED:	34,907 SF
IMPERVIOUS TO BE INSTALLED:	36,168 SF
NET INCREASE:	1,261 SF
TOTAL IMPERVIOUS AFTER THIS PROJECT:	281,958 SF
% IMPERVIOUS:	64.66%
LANDSCAPING REQUIRED: INTERIOR	
REQUIRED: 4%	
DRIVE ISLE: 220,154 SF	
220,154 x .04 = 8,806 SF	
LANDSCAPING PROVIDED: INTERIOR	15,788 SF
STREET YARD:	
PRIMARY: REQUIRED	SECONDARY: REQUIRED
(536-36) 12.5 = 6,250.75 SF	(605-(38+24)) 6.25 = 3,394 SF
PRIMARY: PROVIDED	SECONDARY: PROVIDED
7,325 SF	3,402 SF



MATCHLINE SEE SHEET C3.1

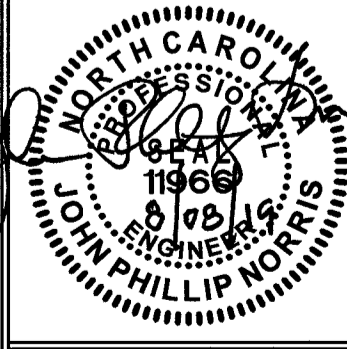
REVISIONS	DATE	DESCRIPTION	BY
R1	08/08/19	EX. CURB & GUTTER AND PAD TO BE REMOVED AND PAVED. REVISE EXISTING PARKING AND	JPN

LAYOUT PLAN  
WILMINGTON ACURA  
4952 NEW CENTRE DRIVE  
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:  
FLOW 4951 NEW CENTRE, LLC  
500 WEST FIFTH ST, SUITE 1800  
WINSTON SALEM, NC 27101  
(336) 422-0061  
dlflow@flowauto.com

NORRIS & TUNSTALL  
CONSULTING ENGINEERS P.C.  
1000 EASTWOOD RD, SUITE #11  
WILMINGTON, NC 28405  
PHONE: (910) 343-9663

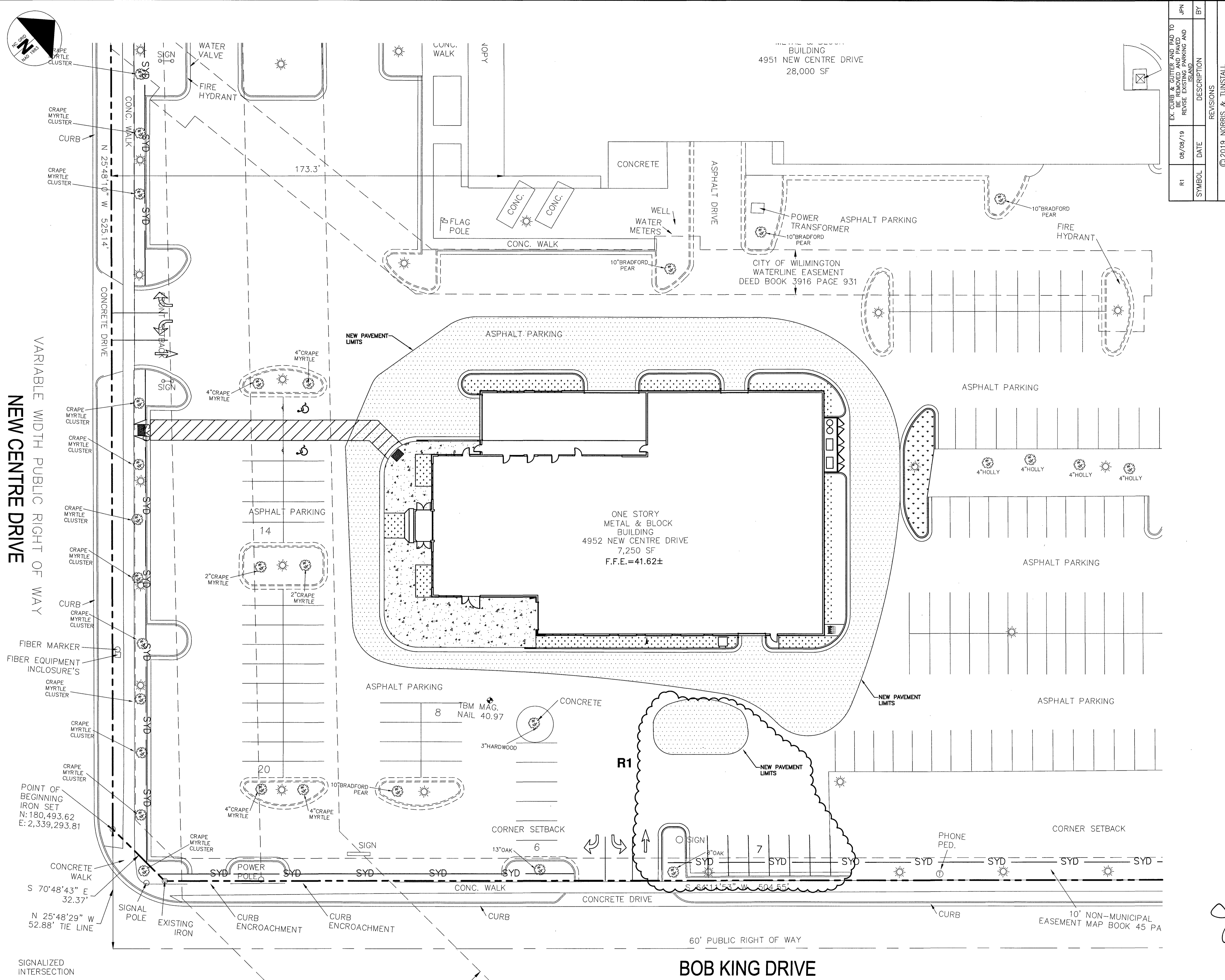
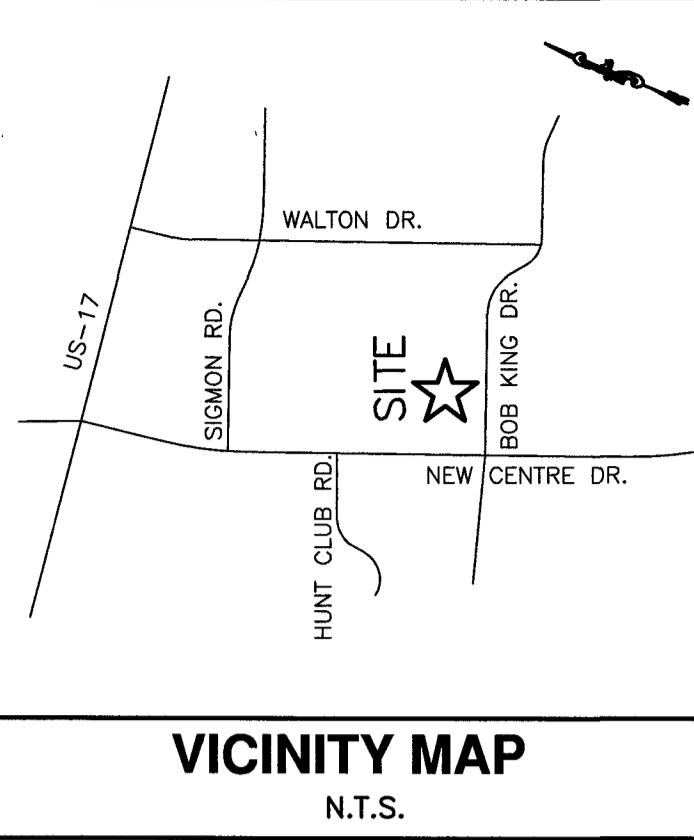
Licence #C-3641
18131
DES. JPN
CKD. JPN
DRWN. EDB
DATE 08/08/19



C3

SCALE: 1" = 30'

KING ROBERT S. MARTHA S  
R04916-001-008-000  
ZONING - RB  
COMMERCIAL  
DEED BK: 2396 PG: 0460



VARIABLE WIDTH PUBLIC RIGHT OF WAY  
**NEW CENTRE DRIVE**

EX. CURB & GUTTER AND PAD TO BE REMOVED AND RAVED REUSE EXISTING AND ISLAND		REVISIONS	
R1	08/08/19	SYMBOL	DATE

**PAVING PLAN**  
**WILMINGTON ACURA**  
**4952 NEW CENTRE DRIVE**  
**NEW HANOVER COUNTY, NORTH CAROLINA**

**OWNER:**  
 FLOW 4951 NEW CENTRE, LLC  
 500 WEST FIFTH ST, SUITE 1800  
 WINSTON-SALEM, NC 27101  
 (336) 422-0061  
 dflow@flowauto.com

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 WILMINGTON, NC 28403  
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Licence #C-3641  
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 DES. JPN  
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 DRWL. EDB

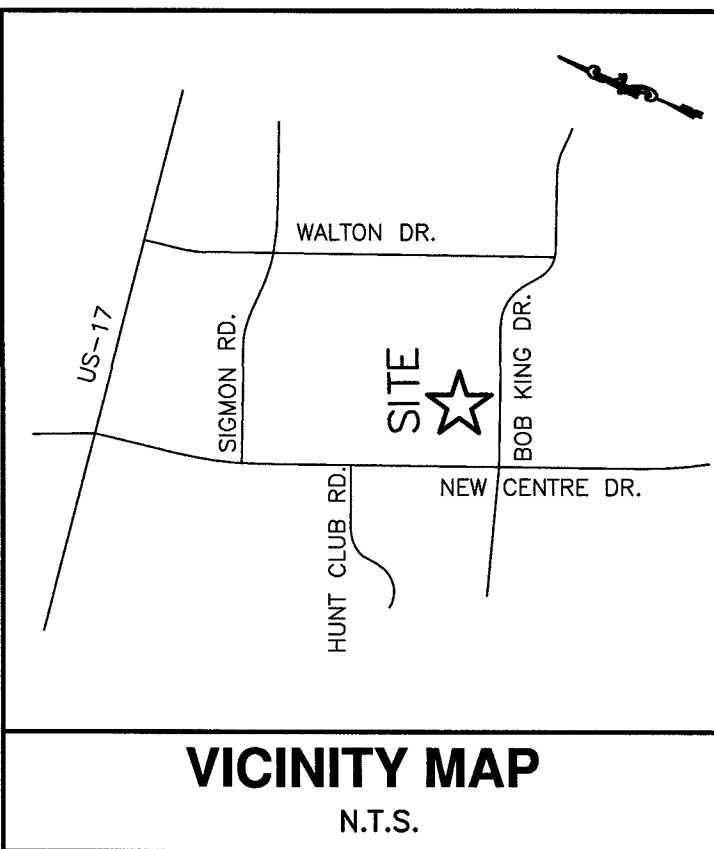


Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

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

**SCALE: 1" = 20'**  
 0 20 40 60

**C3.2**



**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

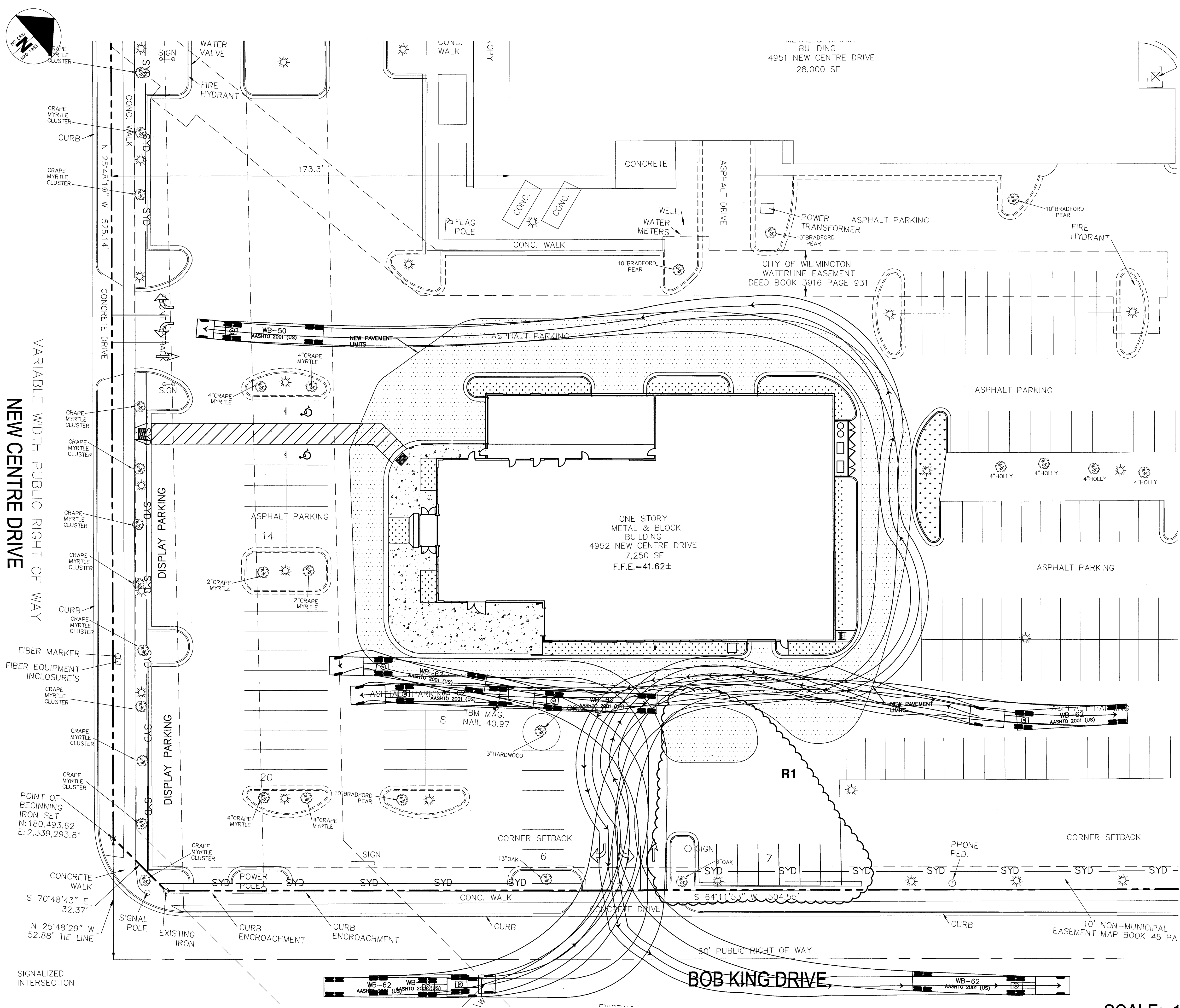
Fire \_\_\_\_\_

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division

**APPROVED STORMWATER MANAGEMENT PLAN**

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

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



SYMBOL	DATE	DESCRIPTION	BY
R1	08/08/19	EX. CURB & GUTTER AND ROAD TO BE REMOVED AND PAVED REVERSE EXISTING PARKING AND ROAD	JPN

REVISIONS

© 2019 NORRIS & TUNSTALL

**TRUCK ROUTE**  
WILMINGTON ACURA  
4952 NEW CENTRE DRIVE  
NEW HANOVER COUNTY, NORTH CAROLINA

**OWNER:**  
FLOW 4951 NEW CENTRE, LLC  
500 WEST FIFTH ST, SUITE 1800  
WILMINGTON, NC 27101  
(336) 422-0061  
dflow@flowauto.com

**NORRIS & TUNSTALL**  
CONSULTING ENGINEERS P.C.

1900 EASTWOOD RD., SUITE #11 1429 ASH-LITTLE RIVER RD. NW  
DUNEDON, NC 28405  
PHONE (710) 343-9635

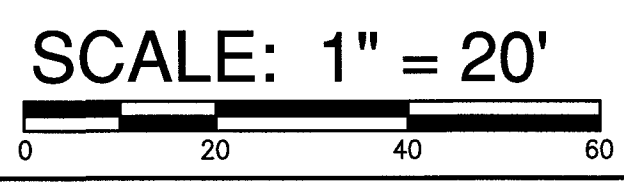
Licence #C-3641

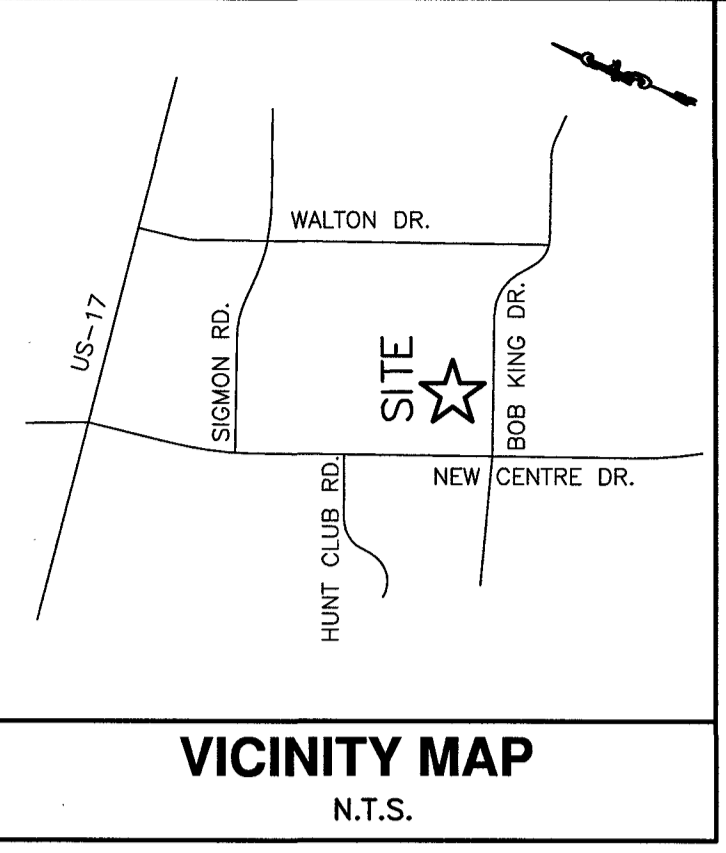
**18131**

DES. JPN  
CKD. JPN  
DRWN. EDB

DATE 08/08/19

**C3.3**





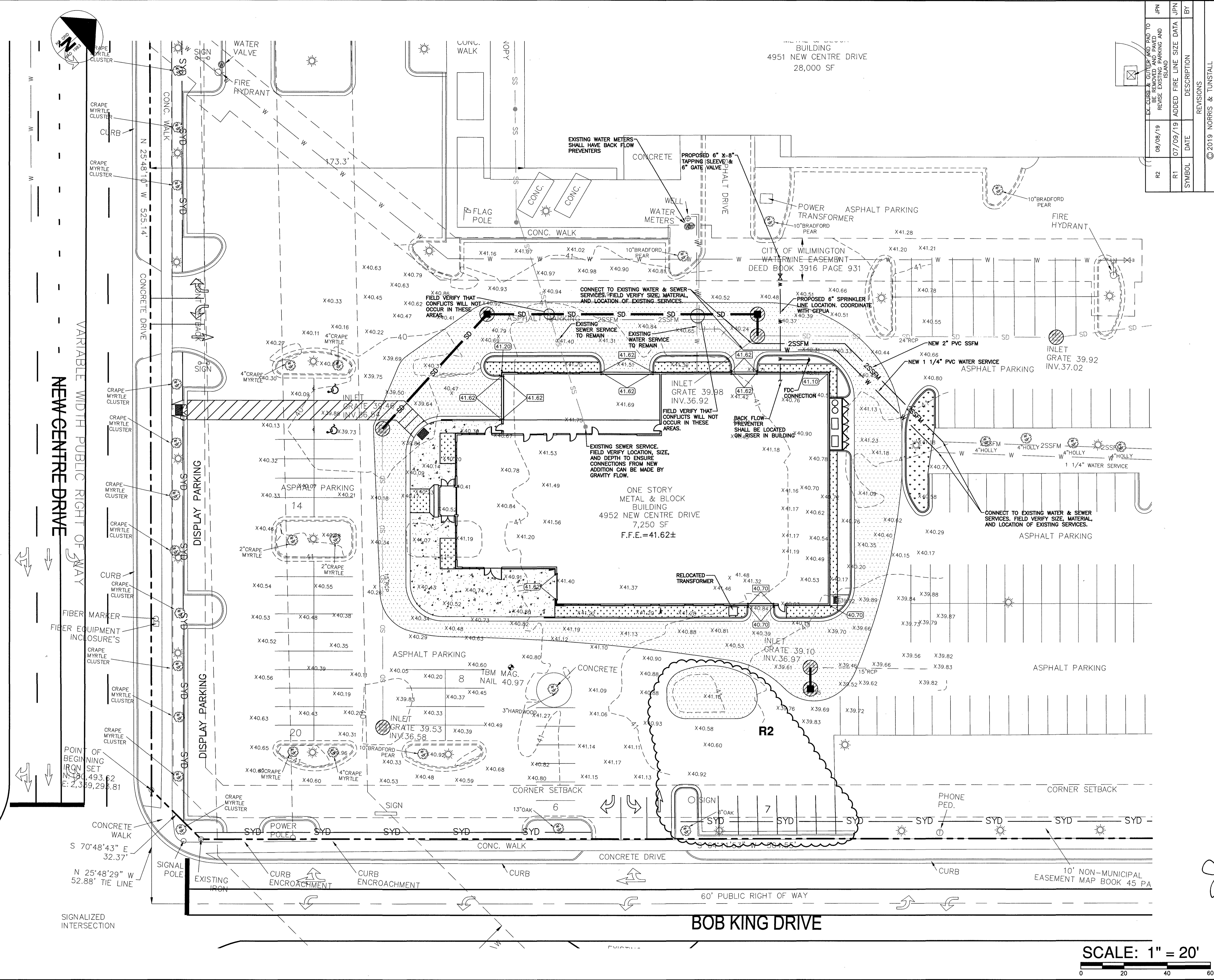
VICINITY MAP  
N.T.S.

- NOTES:
1. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS.
  2. A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS TRUCK DRIVES FOR PRACTICAL USE)
  3. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
  4. 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.
  5. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
  6. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0986.
  7. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
  8. ALL ISOLATION VALVES WITHIN THE "HOT BOX" MUST BE ELECTRICALLY SUPERVISED.

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NORTH CAROLINA  
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APPROVED STORMWATER MANAGEMENT PLAN

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



REV	DATE	DESCRIPTION	BY
R2	08/08/19	EX. CURB & GUTTER AND PAID TO BE REMOVED AND PAVED REUSE EXISTING PARKING AND ISLAND	JPN
R1	07/09/19	ADDED FIRE LINE SIZE DATA	JPN

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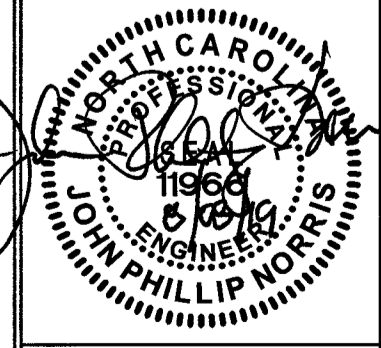
**UTILITY PLAN**  
**WILMINGTON ACURA**  
4952 NEW CENTRE DRIVE  
NEW HANOVER COUNTY, NORTH CAROLINA

**OWNER:**  
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**C4**

SCALE: 1" = 20'  
0 20 40 60