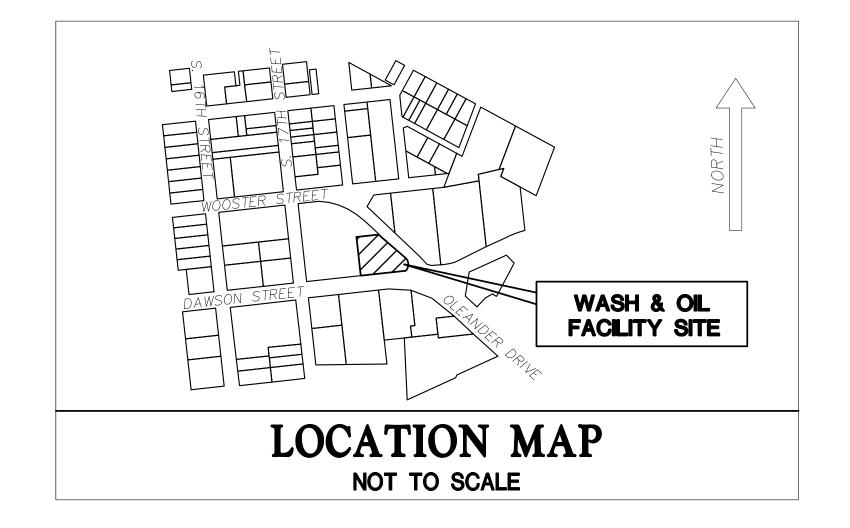
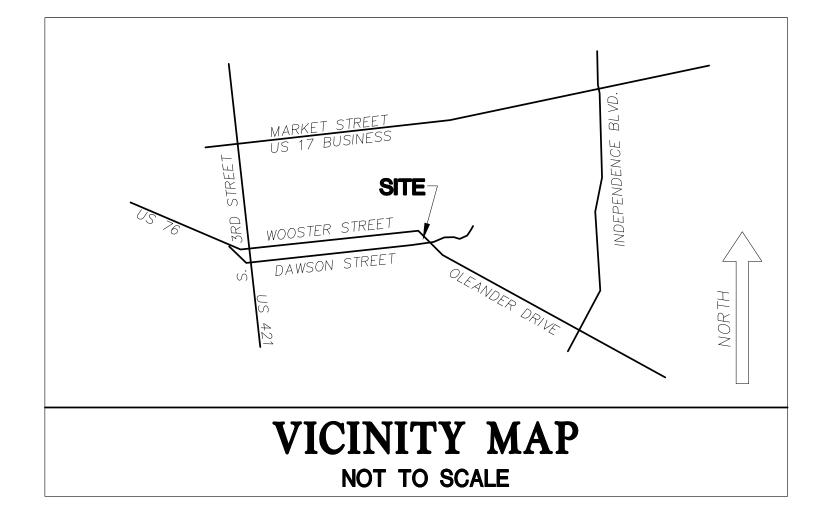
# ASHCOURT CENTER, LLC AUTO WASH & OIL CHANGE FACILITY

# DAWSON STREET WILMINGTON, NC MARCH 2019





NUMBER	TITLE
_	TITLE SHEET
C-001	LEGEND, ABBREV., & GENERAL NOTES
C-101	EXISTING TRANSPORTATION ILLUSTRATION
C-102	SITE INVENTORY PLAN
C-111	CIVIL DEMOLITION PLAN
C-201	ZONING COMPLIANCE PLAN
C-211	EROSION CONTROL PLAN
C-221	SITE IMPROVMENT & GRADING PLAN
D-101	CITY OF WILMINGTON CIVIL/ SITE STANDARD DETAILS
D-102	SEDIMENT & EROSION CONTROL DETAILS

SITE- DATA TABUL	<u>ATION</u>				
PARCEL ID#: R05411-0	)14-002-000;	R05411	-014-003-000;	R05411-014-00	4-00
ZONING: CS (NO A	DJACENT RES	SIDENTIAL	_)		
<u>SETBACKS: CS</u> FRONT — 35' SIDE — 7' — 35' REAR — 15'	SIDE — 7.	.0'	KS (ADDITION)		
MAX HEIGHT — 35'	HEIGHT –	18' (AF	PPROX.)		
CAMA LAND CLASSIFICA	ATION: URBAN	'			
THE PROPERTY DOES IS SURVEY).	NOT LIE WITH	IIN A SI	PECIAL FLOOD HA	AZARD (SEE PR	?OJE(
EXISTING IMPERVIOUS	AREA:				
ONSITE BUILDINGS: PARKING & DRIVES: WALK & PADS: DEMOLISHED: (	7,000 SF 27,236 SF 0 SF 34,236 SF)		<u>OFFSITE</u> BUILDINGS: PARKING & DRI WALKS & PADS: DEMOLISH	0 VES: 2,000 : 324 HED: (2,324	SF SF SF SF)
PROPOSED IMPERVIOUS	S AREA:				
<u>ONSITE</u> BUILDINGS: PARKING & DRIVES: WALKS & PADS:	5,000 SF 21,111 SF 0 SF	<b>-</b>	<u>OFFSITE</u> BUILDINGS: PARKING & DRI WALKS & PADS:	0 VES: 1,200 : 1,080	SF SF SF
TOTAL =	26,111 SF	_	TOTAL =	2,280	SF
AREA OF PROJECT: 36 PROPOSED PERCENT IN EXISTING BUILDING: PROPOSED BUILDING:	MPERVIOUS: 7,000 SF			.Y)	
	5,00 SF				
PROPOSED BUILDING O	·	3.7 <i>%</i>			
PROPOSED USE: CAR			E FACILITY		
NUMBER OF PROPOSEL	D BUILDINGS:	1 (1	STORY), +/- 18	B' HEIGHT	
PARKING CALCULATIONS NEW FACILITY = 5,000	) SF @ 1 PE		SF GROSS FLOO SF GROSS FLOO		
PARKING REQUIRED:		= 9 S	PACES (8 STANL	DARD, 1 ADA VA	AN)
PARKING PROVIDED: REGULAR — HANDICAPPED —		= 1	SPACES (VIA OI SPACES (ONSITE SPACES		
TOTAL					







PROFESSIONAL FIRM# C-3796 PROJECT NUMBER 20 - 56

# SITE CONDITIONS

13

12

10

LEGEND

GENERAL NOTES

15

APPROX. SCALE: 1" = 40'

#### TRANSPORTATION NOTES:

- 1. THIS LAYOUT IS A COMPOSITE OF THE PROJECT LINEWORK AND SURVEY, SUPERIMPOSED ON AERIAL PHOTOGRAPHY TAKEN FROM GOOGLE EARTH PRO.
- 2. THIS LAYOUT SERVES TO ILLUSTRATE EXISTING ROADWAY CORRIDOR CONDITIONS ADJACENT, AND IN NEAR VICINITY, TO THE PROJECT SITE.
- 3. A VISUAL INSPECTION OF THE SITE INDICATES THAT CONDITIONS REPRESENTED IN THE GOOGLE EARTH IMAGERY ARE REASONABLY CONSISTENT WITH CURRENT CONDITIONS.



13

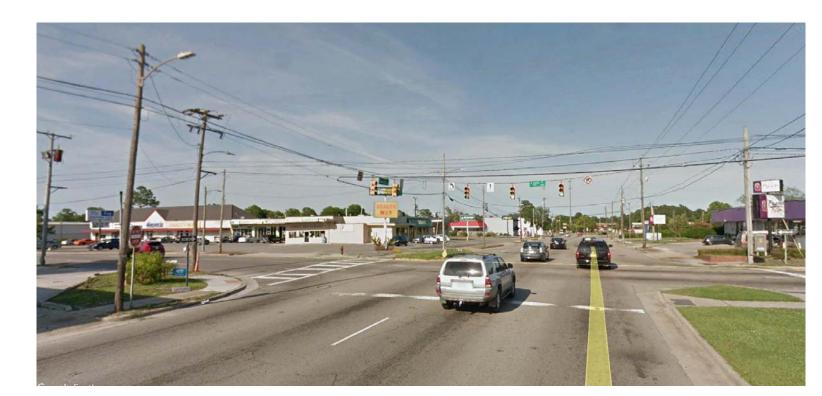
14

12

# INSET# 1

# DAWSON ST. & OLEANDER DR.

NOT TO SCALE (EASTERLY PERSPECTIVE)



# INSET# 2

# DAWSON ST. & 17th. ST.

NOT TO SCALE (EASTERLY PERSPECTIVE)

WILMINGTON FOR EACH OPEN UTILIT CUT OF CITY STREETS A \$325 PERMIT SHALL BE REQUIRED FROM TH CITY PRIOR TO

			N	ORTH CAR	JLINA
TY	Public Ser	vices •	Eng	gineerin	g Divisio
S, .L HF	APPROVED P	PLAN -	N□	PERMIT	REQUIR
_	Signed:				

2F D	<u>APPROVED</u>	CONSTRUCTION	PLA
ZED		NAME	D,
	PLANNING		
	TRAFFIC		
	FIRE		



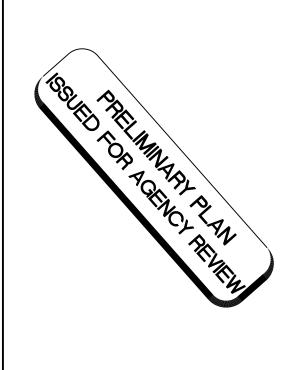
15

POST OFFICE BOX 16110 WILMINGTON, NC 28408 910 - 742 - 3860 PROFESSIONAL FIRM# C-3796

AUTO WASH & LUBE FACILITY WILMINGTON NORTH CAROLINA PREPARED FOR:

ASHCOURT CENTER, LLC WILMINGTON, NC 28403

NO.	DATE	ОТС	DESCRIPTION
110.	DAIL	013	DESCRIPTION



© 2019 GS&E, Inc.

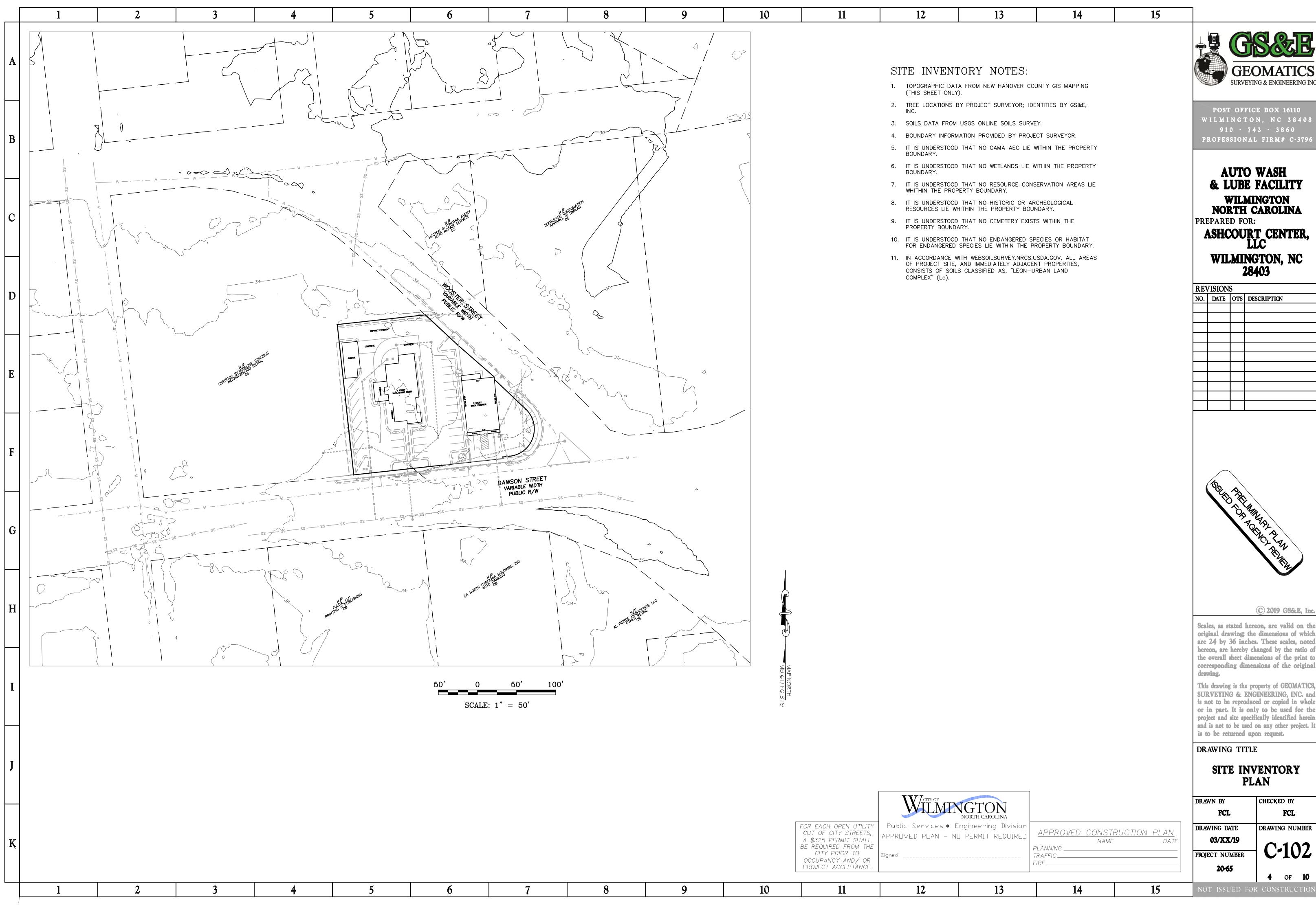
Scales, as stated hereon, are valid on the original drawing; the dimensions of which are 24 by 36 inches. These scales, noted hereon, are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

This drawing is the property of GEOMATICS, SURVEYING & ENGINEERING, INC. and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herein and is not to be used on any other project. It is to be returned upon request.

DRAWING TITLE **EXISTING** TRANSPORTATION **ILLUSTRATION** 

RAWN BY	CHECKED BY
FCL	FCL
RAWING DATE	DRAWING NUMBER
03/XX/19	C-101
ROJECT NUMBER	C-101
20-65	3 OF 10

OCCUPANCY AND/ OR PROJECT ACCEPTANCE. 14 15 NOT ISSUED FOR CONSTRUCTION

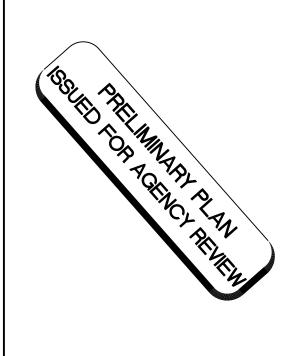




POST OFFICE BOX 16110 WILMINGTON, NC 28408 910 - 742 - 3860 PROFESSIONAL FIRM# C-3796

WILMINGTON NORTH CAROLINA ASHCOURT CENTER, LLC WILMINGTON, NC 28403

NO.	DATE	OTS	DESCRIPTION	
1101	DILLE	0.25	DBCCIII IICI	

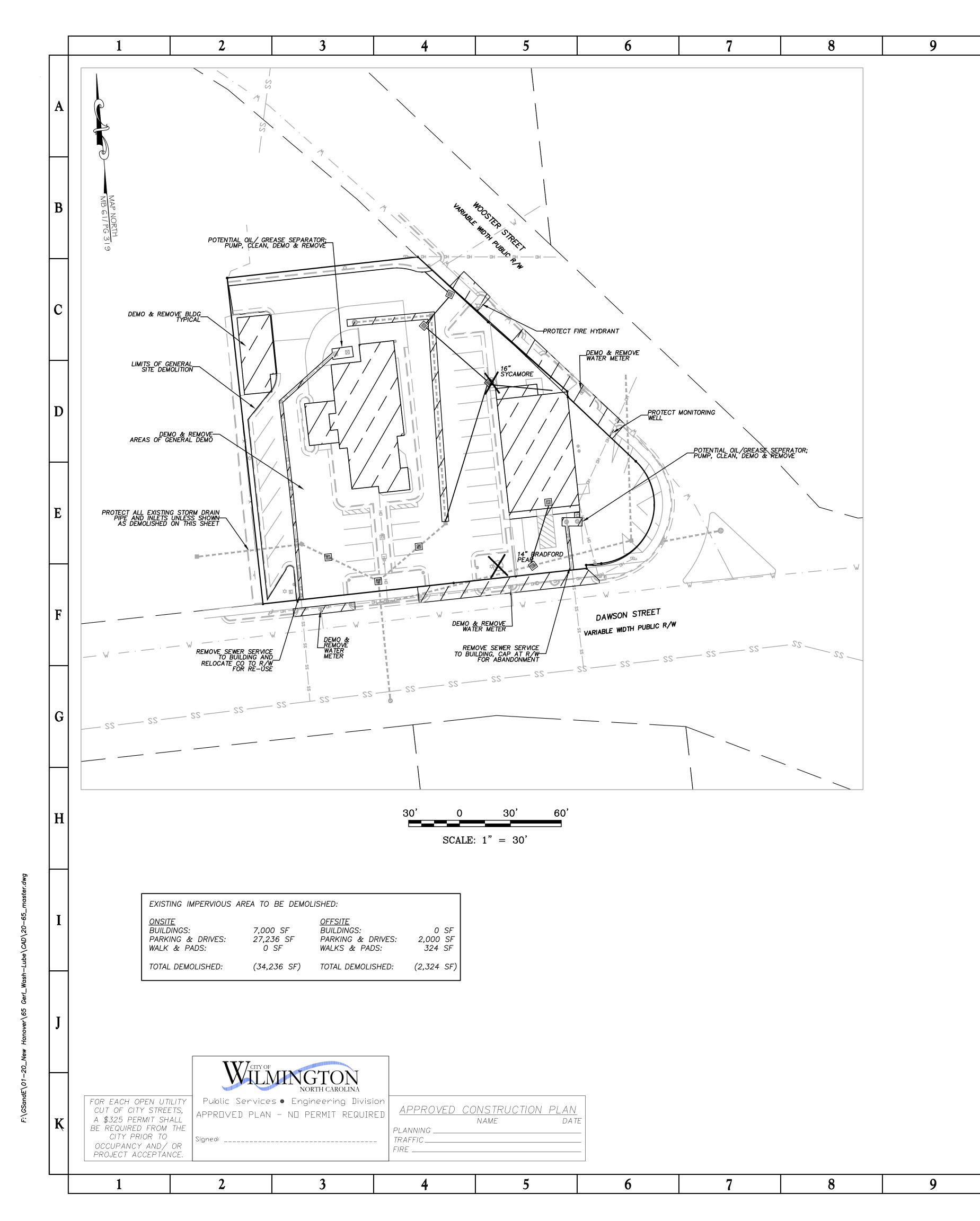


© 2019 GS&E, Inc.

Scales, as stated hereon, are valid on the original drawing; the dimensions of which are 24 by 36 inches. These scales, noted hereon, are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original

SURVEYING & ENGINEERING, INC. and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herein and is not to be used on any other project. It is to be returned upon request.

FCL	FCL
DRAWING DATE	DRAWING NUMBER
03/XX/19	C-102
PROJECT NUMBER	- C-102
20-65	4 OF 10



#### DEMOLITION NOTES:

- 1. ALL DEMOLITION CUTS SHALL BE CLEAN SAW CUTS TO A DEPTH SUFFICIENT TO PROHIBIT DAMAGE TO REMAINING SURFACES AND MATERIALS.
- 2. ALL EXISTING STRUCTURES TO BE DEMOLISHED AND REMOVED TO A MINIMUM 1—FOOT BELOW PROPOSED GRADE AND/OR FOUNDATIONS. WHERE MONOLITHIC BUILDING MATERIALS ARE ENCOUNTERED, AND CONTRACTOR DETERMINES SAID MATERIALS WILL NOT EFFECT PROPOSED CONSTRUCTION, CONTRACTOR MAY HAVE MATERIALS EVALUATED BY A PROFESSIONAL GEOTECHNICAL OR STRUCTURAL ENGINEER, UNDER SEALED REPORT, FOR INCLUSION IN PROPOSED SITE. RESOLUTION OF ANY CONFLICTS ARISING FROM INCLUSION OF SAID MATERIALS WILL BE AT THE SOLE COST OF THE

13

- 3. WITHIN LIMITS OF GENERAL SITE DEMOLITION, CONTRACTOR SHALL, GENERALLY, DEMO & REMOVE EXISTING MATERIALS TO A DEPTH SUFFICIENT TO FACILITATE PROPER CONSTRUCTION OF PROPOSED SITE. MAJOR INFRASTRUCTURE NOT SHOWN FOR EXPLICIT DEMOLITION SHALL BE PROTECTED FOR REUSE AND SUITABLE MATERIALS MAY BE STORED FOR INCORPORATION IN PROPOSED SITE, WITH APPROVAL OF OWNER.
- 4. CONTRACTOR TO COORDINATE ANY CHANGES IN FIELD CONDITIONS THAT MAY REVISE THE DESIGN WITH ENGINEER PRIOR TO PROCEEDING.
- 5. DEMOLITION AND REMOVAL OF WATER AND SEWER SHALL BE IN ACORDANCE WITH CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARDS AND SPECIFICATIONS. WHERE RE-USE OF EXISITING SERVICE IS SHOWN (PARTIAL OR FULL), CONTRACTOR SHALL ASSURE INTEGRITY OF REMAINING INFRASTRUCTURE AND CONNECTIONS TO NEW WORK.
- 6. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING DEMOLITION EFFORTS. WHERE A UTILITY IS TO BE CONNECTED TO THE PROPOSED FACILIITY, CONTRACTOR SHALL ASSURE INTEGRITY OF EXISTING INFRASTRUCTURE. WHERE A UTILITY IS TO BE ABANDONDED, DISCONNECTED OR REMOVED FROM SITE, CONTRACTOR'S EFFORT SHALL BE IN ACCORDANCE WITH THE GOVERNING UTILITY'S DRAWINGS, SPECIFICATIONS, AND STANARDS.
- 7. CONTRACTOR IS RESPONSIBLE FOR REPLACING AND/OR REPAIRING ANY DAMAGE TO EXISTING SITE FEATURES, INCLUDING BUT NOT LIMITED TO: EXISTING LANDSCAPE, IRRIGATION, UTILITIES AND/OR HARDSCAPE BEYOND THAT SHOWN ON THE DEMOLITION PLAN, AND AS REQUIRED TO COMPLETE THE WORK WITHIN THIS CONTRACT.
- 8. CONTRACTOR SHALL PROTECT ALL EXISTING STORM DRAINAGE FACILITIES (INLETS TO OFFSITE CONNECTION POINTS) FOR REUSE.
- 9. POSITIVE DRAINAGE SHALL BE MAINTAINED BY CONTRACTOR AT ALL TIMES DURING CONSTRUCTION. AT PROJECT CLOSEOUT, POSITIVE DRAINAGE MUST BE PROVIDED FROM ALL SURFACES. FLOW TO ADJACENT LOTS (ESPECIALLY CONCENTRATED FLOW), OTHER THAN SHOWN OR EXISTING PRIOR TO CONSTRUCTION, IS NOT ACCEPTABLE AND CORRECTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 10. CONTRACTOR IS SOLELY RESPONSIBLE FOR REMOVAL OF DEMOLISHED MATERIAL, CONSTRUCTION DEBRIS AND WASTE MATERIAL.
- 11. WHERE DEMOLITION IS INDICATED OUTSIDE OF SUBJECT TRACT, CONTRACTOR SHALL COORDINATE WITH OWNER ON EXTENT AND NATURE OF ACTIVITY. GS&E, INC. IS ONLY SHOWING DEMOLITION IN THESE AREAS FOR PURPOSES OF ILLUSTRATING A COMPREHENSIVE DEMOLITION ACTIVITY AND CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR THIS WORK.
- 12. EXISTING PARKING LINES ARE FADED. WHERE NECESSARY TO PROVIDE CLEAR DRIVER GUIDANCE IN NEWLY CONFIGURED PARKING AREA, CONTRACTOR SHALL ERADICATE EXISTING LINES.
- 13. CONTRACTOR SHALL EVALUATE EXISTING CONCRETE STOOP. IF ACCEPTABLE FOR INCLUSION IN NEW CONCRETE SLAB, CONTRACTOR SHALL CLEAN AND PREPARE FOR PROPER BOND AND INCLUSION WITH NEW SLAB. IF DEEMED UNACCEPTABLE FOR INCLUSION, CONTRACTOR SHALL SAW CUT CLEAN AND REMOVE FOR PLACEMENT OF NEW SLAB (SEE STRUCTURAL DRAWINGS FOR SLAB DETAILS).
- 14. CONTRACTOR SHALL REMOVE SILT FENCE/ TREE PROTECTION UPON SITE STABILIZATION AND ISSUANCE OF CERTIFICATE OF OCCUPANCY.

## TREES TO BE REMOVED:

SYMBOL	COMMON NAME	SIZE	QUANTITY
×	REGULATED TREE	ABOVE MINIMUM	2

#### NOTES:

1. ONLY ONSITE, HEALTHY TREES REQUIRED TO BE REMOVED FOR ESSENTIAL SITE IMPROVEMENTS ARE NOTED IN THE TABLE. OFFSITE, DAMAGED, BELOW MINIMUM SIZE OR UNHEALTHY TREES DO NOT MEET CRITERIA AND ARE NOT NOTED IN THE TABLE.

## TREE REMOVAL NOTES:

- 1. TREE PROTECTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. TREES MARKED FOR REMOVAL SHALL BE REMOVED COMPLETELY, INCLUDING ROOT-WAD. AREAS WHERE TREES HAVE BEEN REMOVED SHALL BE BROUGHT TO NATURAL GRADE WITH STRUCTURAL BACKFILL PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY.
- 3. NO REDEVELOPMENT IS PROPOSED WITHIN A CRITICAL ROOT ZONE.
- 4. LAND DISTURBANCE OTHER THAN THAT ALLOWED BY THE APPROVED PLAN OR INCONSISTENT WITH THE APPROVED PLAN MAY CONSTITUTE NEGLIGENCE WITH REGARDS TO CITY LANDSCAPING CODE(S). WORK DETERMINED TO BE NEGLIGENT IN SUCH A MANNER IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



15

POST OFFICE BOX 16110
WILMINGTON, NC 28408
910 · 742 · 3860
PROFESSIONAL FIRM# C·3796

**AUTO WASH** 

& LUBE FACILITY

WILMINGTON

NORTH CAROLINA

PREPARED FOR:

ASHCOURT CENTER,

LLC

WILMINGTON, NC

28403

REV	/ISION	S	
NO.	DATE	OTS	DESCRIPTION

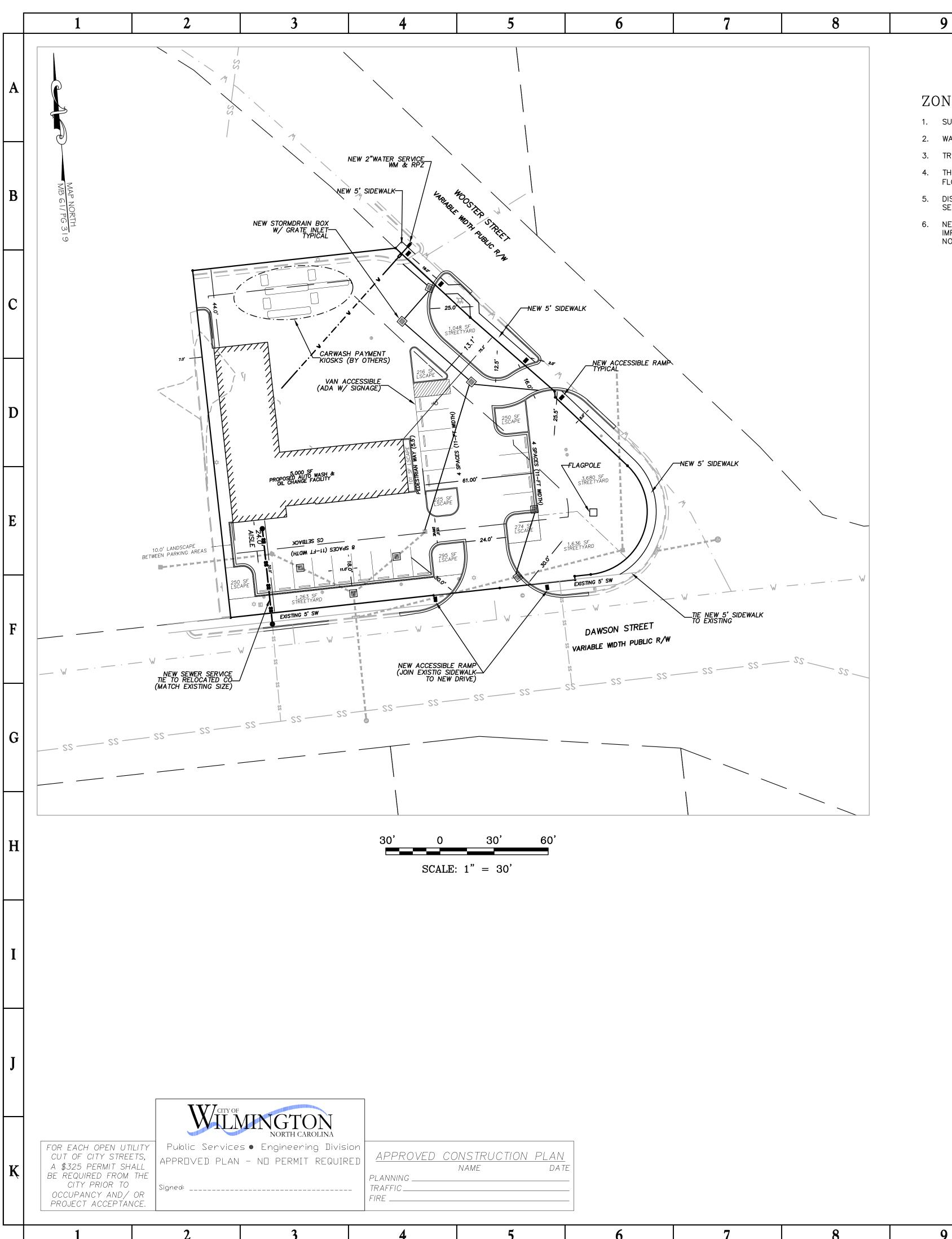
© 2019 GS&E, Inc

Scales, as stated hereon, are valid on the original drawing; the dimensions of which are 24 by 36 inches. These scales, noted hereon, are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

This drawing is the property of GEOMATICS, SURVEYING & ENGINEERING, INC. and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herein and is not to be used on any other project. It is to be returned upon request.

DRAWING TITLE
CIVIL
DEMOLITION
PLAN

DRAWN BY	CHECKED BY
FCL	FCL
DRAWING DATE	DRAWING NUMBER
03/XX/19	C-111
PROJECT NUMBER	C-111
20-65	<b>5</b> OF <b>10</b>
NOT ISSUED FOR	. CONSTRUCTION



#### ZONING NOTES:

- 1. SUBJECT SITE IS ZONED CS.
- 2. WATER AND SEWER CURRENTLY PROVIDED BY CFPUA.
- 3. TRASH COLLECTION BY CITY ROLL-OUT CONTAINERS.
- 4. THIS PROPERTY IS NOT LOCATED WITHIN A DOCUMENTED FLOODWAY (SEE SHEET C-001 FOR SPECIFIC FIRM PANEL).
- 5. DISTURBED AREA IS LESS THAN 1 ACRE AND AN EROSION & SEDIMENT CONTROL PERMIT IS NOT REQUIRED.
- 6. NEW ONSITE IMPERVIOUS AREA IS LESS THAN EXISTING ONSITE IMPERVIOUS AREA AND STORMWATER CONTROL MEASURES ARE NOT REQUIRED.

#### LANDSCAPING AREA CALCULATIONS:

#### 1. <u>STREETYARD:</u>

12

DAWSON REQUIRED: 2,500 SF (200' X 25 W/ 50% REDUCTION) PROVIDED: 2,899 SF

WOOSTER REQUIRED: 3,750 SF (150' X 25 W/ NO REDUCTION)
PROVIDED: 4,728 (PLANTINGS ONLY FOR REQUIREMENT)

13

14

15

#### 2. PARKING:

REQUIRED: 216 SF AT EACH END OF PARKING AREA PROVIDED: 216 SF (MINIMUM) AT EACH END OF PARKING AREA

#### REQ

3. <u>FOUNDATION:</u>

REQUIRED:  $0.12 \times (18' \text{ height } \times 30' \text{ length}) = 65 \text{ SF.}$  PROVIDED: 75 SF.

#### CITY OF WILMINGTON NOTES:

- 1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. 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 INSTRUCTION ON TREE PROTECTION METHODS.
- 4. CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 5. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- 6. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS. .
- 7. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- B. CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 9. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- 10. ALL PROPOSED TREES TO BE AT LEAST 2.5-INCHES IN CALIPER.
- 11. ALL PAVEMENT MARKINGS IN PUBIC RIGHT-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 12. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO TO MEET MUTCD STANDARDS.
- 13. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 14. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.



POST OFFICE BOX 16110
WILMINGTON, NC 28408
910 · 742 · 3860
PROFESSIONAL FIRM# C·3796

**AUTO WASH** 

& LUBE FACILITY

WILMINGTON

NORTH CAROLINA

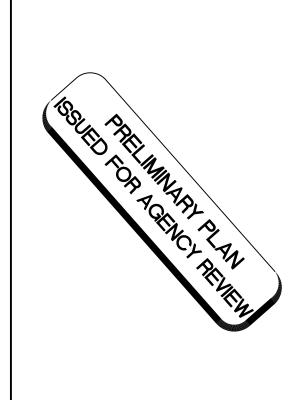
PREPARED FOR:

ASHCOURT CENTER,

LLC

WILMINGTON, NC

REV	/ISION	S	
NO.	DATE	OTS	DESCRIPTION



© 2019 GS&E, Inc

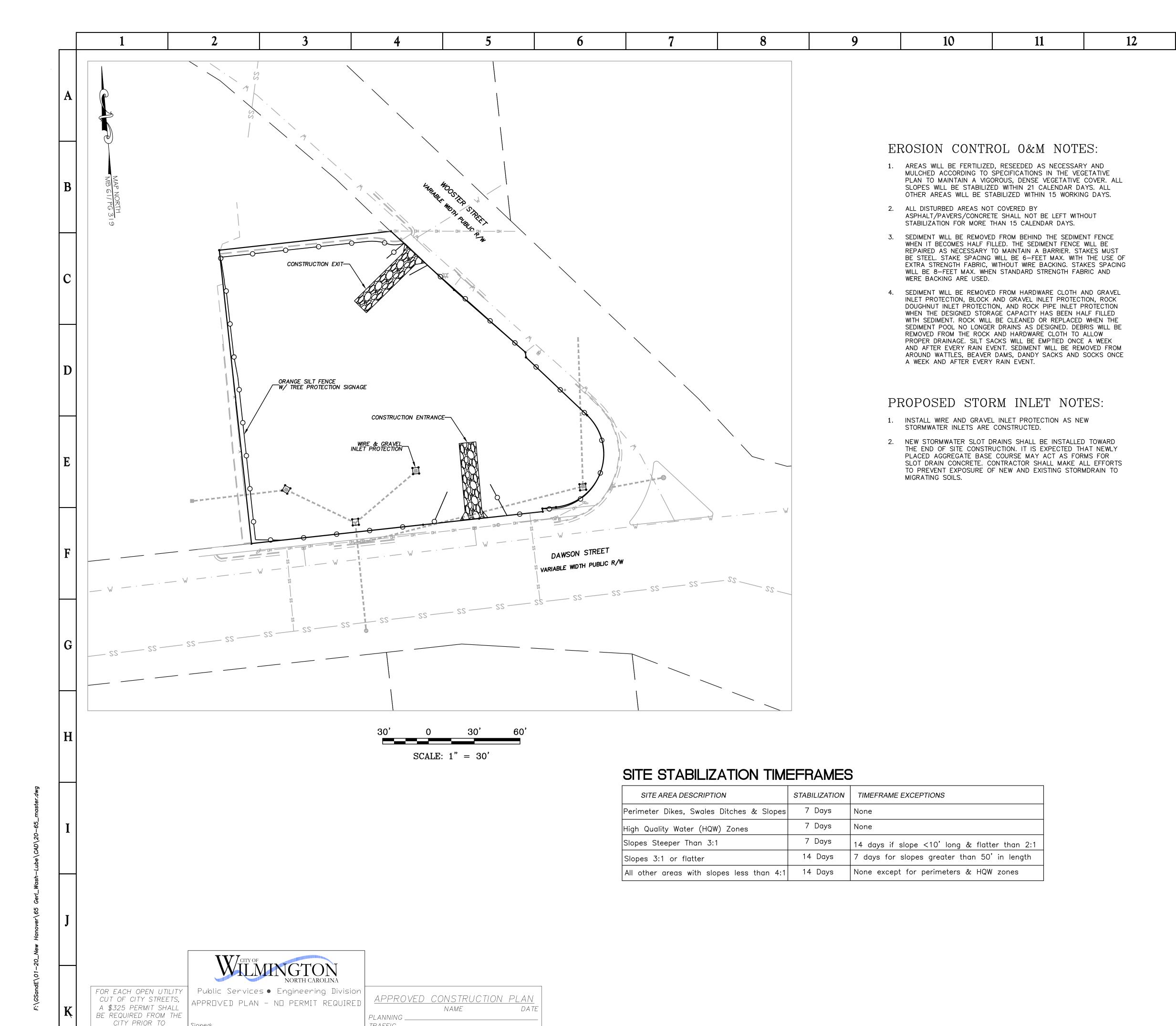
Scales, as stated hereon, are valid on the original drawing; the dimensions of which are 24 by 36 inches. These scales, noted hereon, are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

This drawing is the property of GEOMATICS, SURVEYING & ENGINEERING, INC. and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herein and is not to be used on any other project. It is to be returned upon request.

DRAWING TITLE
ZONING
COMPLIANCE
PLAN

DR.	AWN	I BY		CHECK	(ED BY	
		FCL			FCL	
DR.	AWI:	NG DATE		DRAW	ING NU	MBER
	0.	3/XX/19	1		:-2(	Λ1
PRC	PROJECT NUMBER			,- 4	<b>NI</b>	
		20-65				
				6	OF	10
N	ОТ	ISSUED	FOR	. CON	STRUC	CTION

15



TRAFFIC\_\_\_

OCCUPANCY AND/ OR PROJECT ACCEPTANCE.



15

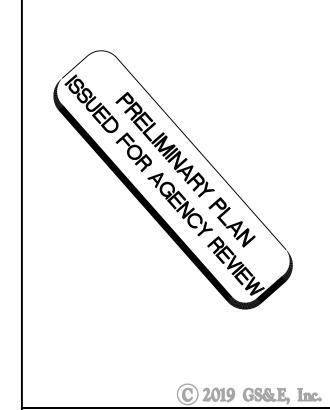
13

POST OFFICE BOX 16110 WILMINGTON, NC 28408 910 - 742 - 3860 PROFESSIONAL FIRM# C-3796

AUTO WASH

& LUBE FACILITY **WILMINGTON** NORTH CAROLINA PREPARED FOR: ASHCOURT CENTER, LLC WILMINGTON, NC 28403

NO.	DATE	OTS	DESCRIPTION
-,-,		-	



Scales, as stated hereon, are valid on the original drawing; the dimensions of which are 24 by 36 inches. These scales, noted hereon, are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original

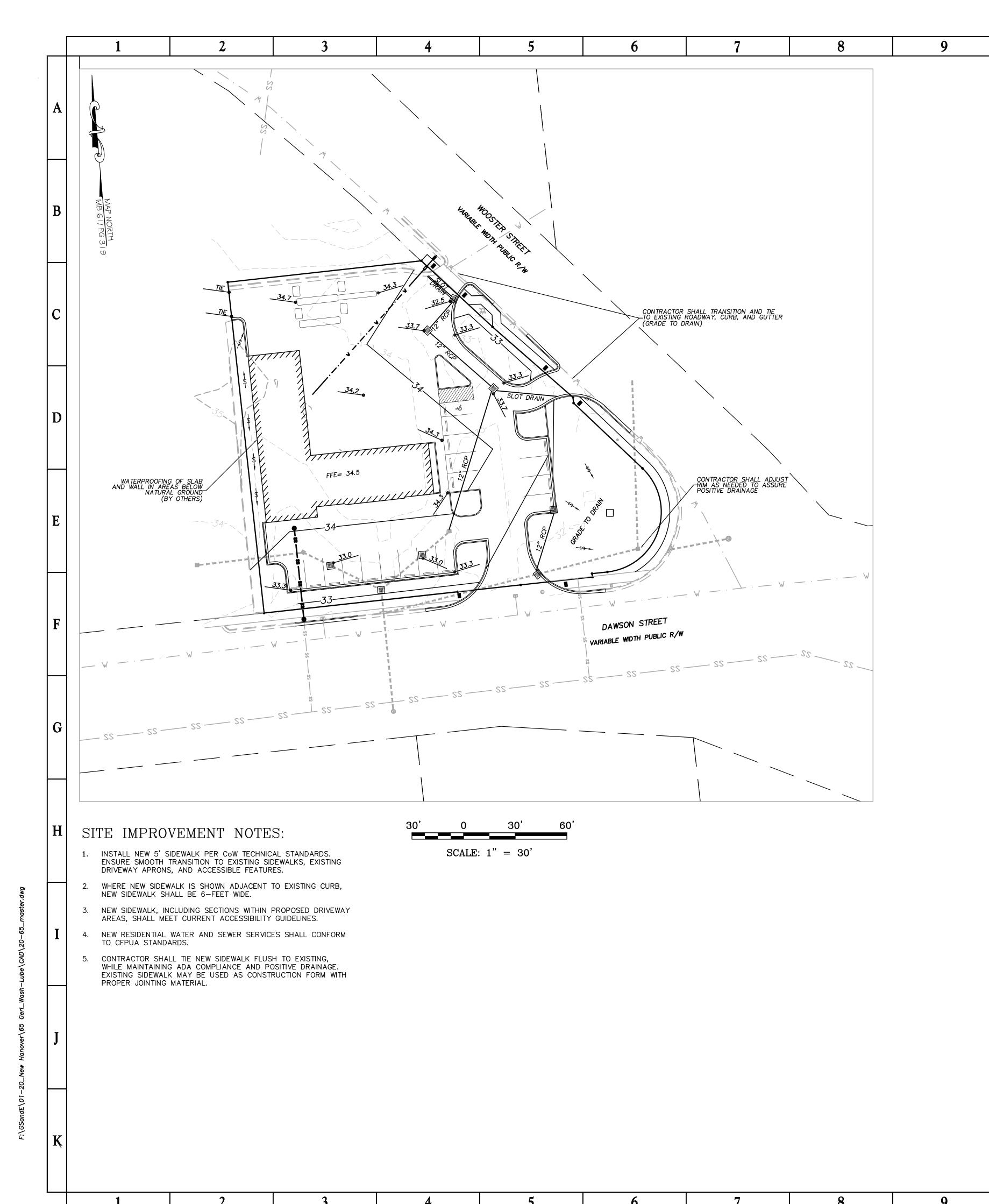
This drawing is the property of GEOMATICS, SURVEYING & ENGINEERING, INC. and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herein and is not to be used on any other project. It is to be returned upon request.

# DRAWING TITLE SEDIMENT CONTROL **PLAN**

DRAWN BY	CHECKED BY
FCL	FCL
DRAWING DATE	DRAWING NUMBER
03/XX/19	0.211
PROJECT NUMBER	C-211
20-65	
	7 OF <b>10</b>

15

13



#### CITY OF WILMINGTON NOTES:

- 1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. 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 INSTRUCTION ON TREE PROTECTION METHODS.
- 4. CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 5. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- 7. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF
- CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 9. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- 10. ALL PROPOSED TREES TO BE AT LEAST 2.5-INCHES IN CALIPER.
- 11. ALL PAVEMENT MARKINGS IN PUBIC RIGHT-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/ OR NCDOT STANDARDS.
- 12. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO TO MEET MUTCD STANDARDS.
- 13. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 14. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.

FILLED EXPANSION JOINT

DRAWN: PB/JSR

CHECKED: DEC

SCALE NOT TO SCALE

FILLED EXPANSION JOINT

SECTION A-A

NOTES: 1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.

6. 4' STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS

STANDARD DETAIL

SIDEWALK

7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"

8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 21

2. SANITARY SEVER CLEAN-DUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED DUTSIDE SIDEWALK WHERE FEASIBLE.

4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS 'A' - 3,000 PSI.
 5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL

9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.

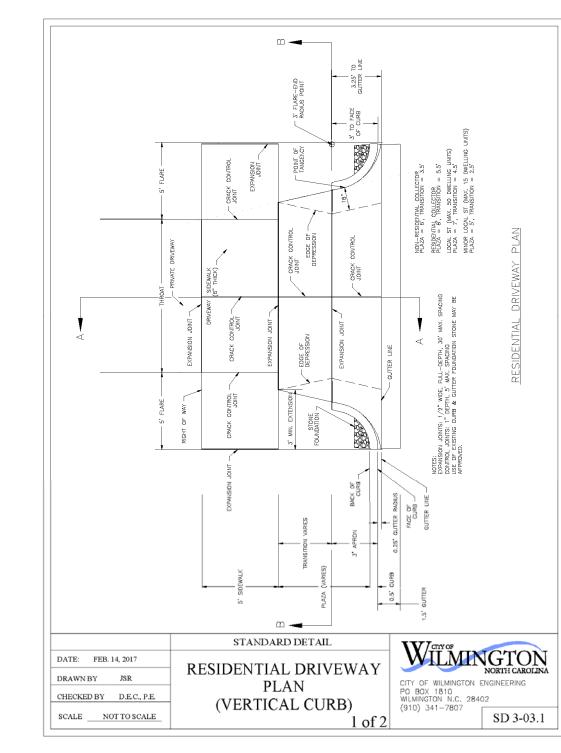
SECTION B-B

WILMINGTON NORTH CAROLINA

SD 3-10

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807

15. EXISTING SIDEWALKS AND CURB RAMPS SHALL BE FIELD VERIFIED FOR COMPLIANCE WITH CURRENT ADA STANDARDS FOR LAYOUT, GRADE CROSS SLOPE, ETC. ITEMS NOT IN COMPLIANCE SHALL BE REPAIRED TO CURRENT STANDARDS.



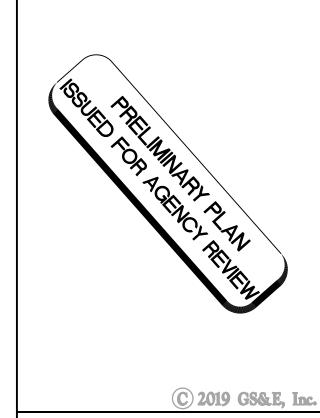


15

POST OFFICE BOX 16110 WILMINGTON, NC 28408 910 - 742 - 3860 PROFESSIONAL FIRM# C-3796

**AUTO WASH** & LUBE FACILITY **WILMINGTON** NORTH CAROLINA PREPARED FOR: ASHCOURT CENTER, LLC WILMINGTON, NC

	ISION		DECOREDETO
NO.	DATE	OTS	DESCRIPTION



Scales, as stated hereon, are valid on the original drawing; the dimensions of which are 24 by 36 inches. These scales, noted hereon, are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original

This drawing is the property of GEOMATICS, SURVEYING & ENGINEERING, INC. and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herein and is not to be used on any other project. It is to be returned upon request.

DRAWING TITLE SITE IMPROVEMENT & GRADING **PLAN** 

ROVED CONSTRUCTION PLAN NAME

WILMINGTON NORTH CAROLINA

SD 3-03.2

STANDARD DETAIL

RESIDENTIAL DRIVEWAY

SECTIONS

(VERTICAL CURB)

2 of 2

	WILMINGTON NORTH CAROLINA	
FOR EACH OPEN UTILITY CUT OF CITY STREETS, A \$325 PERMIT SHALL BE REQUIRED FROM THE CITY PRIOR TO OCCUPANCY AND/OR PROJECT ACCEPTANCE.	Public Services • Engineering Division  APPROVED PLAN - NO PERMIT REQUIRED  Signed:	APPR PLANNIN TRAFFIC: FIRE

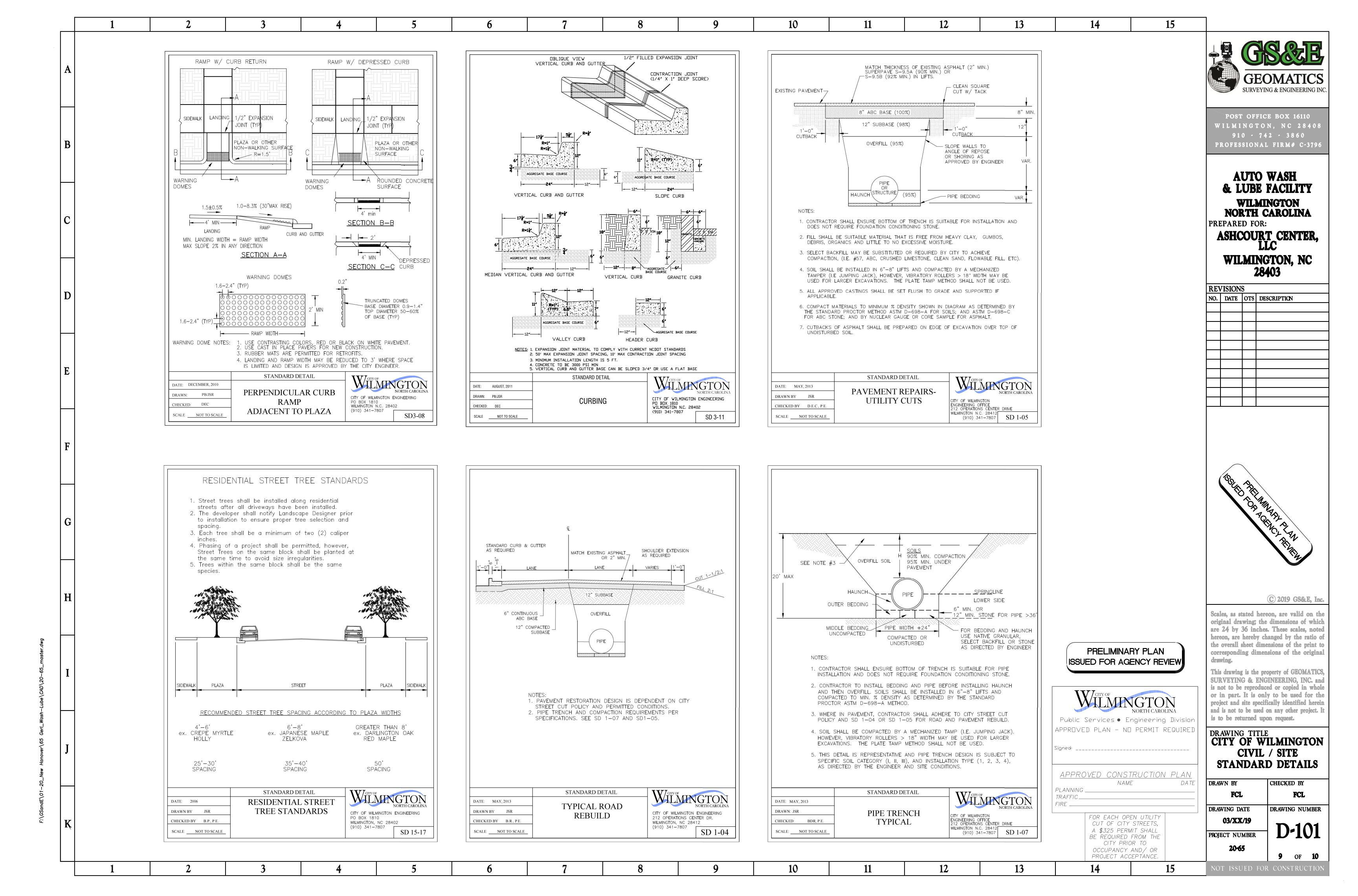
DATE: FEB. 14, 2017

DRAWN BY JSR

CHECKED BY D.E.C., P.E.

SCALE NOT TO SCALE

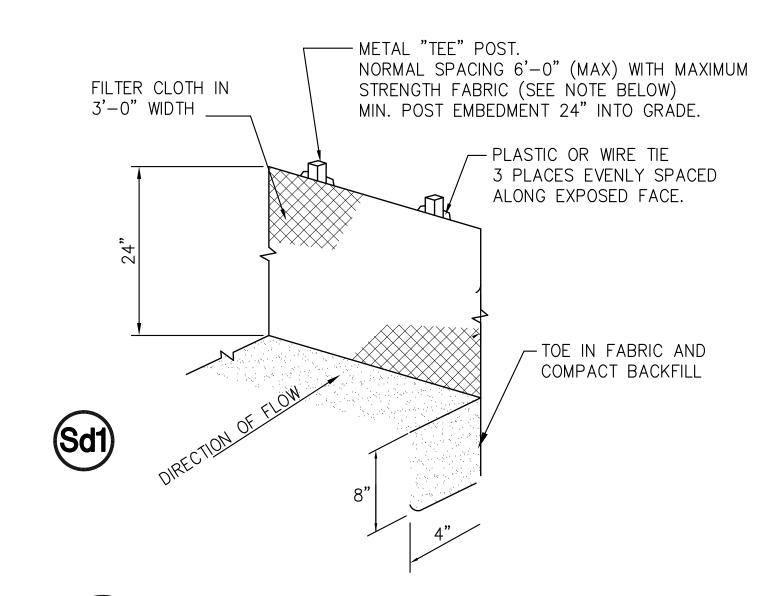
DRAWN BY	CHECKED BY			
FCL	FCL			
DRAWING DATE	DRAWING NUMBER			
03/XX/19	C-221			
PROJECT NUMBER	C-221			
20-65	<b>8</b> of <b>10</b>			
NOT ISSUED FOR	CONSTRUCTION			



#### NPDES STABILIZATION TIMEFRAMES

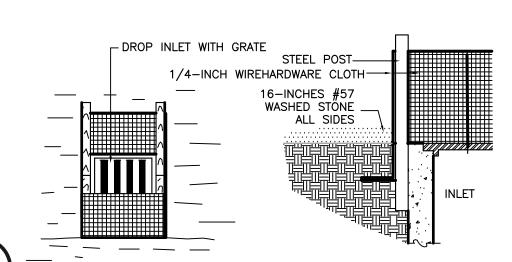
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter Dikes, Swales Ditches & Slopes	7 Days	None
High Quality Water (HQW) Zones	7 Days	None
Slopes Steeper Than 3:1	7 Days	14 days if slope <10' long & flatter than 2:1
Slopes 3:1 or flatter	14 Days	7 days for slopes greater than 50' in length
All other areas with slopes less than 4:1	14 Days	None except for perimeters & HQW zones

# STABILIZATION REQUIREMENTS D-102 NOT TO SCALE

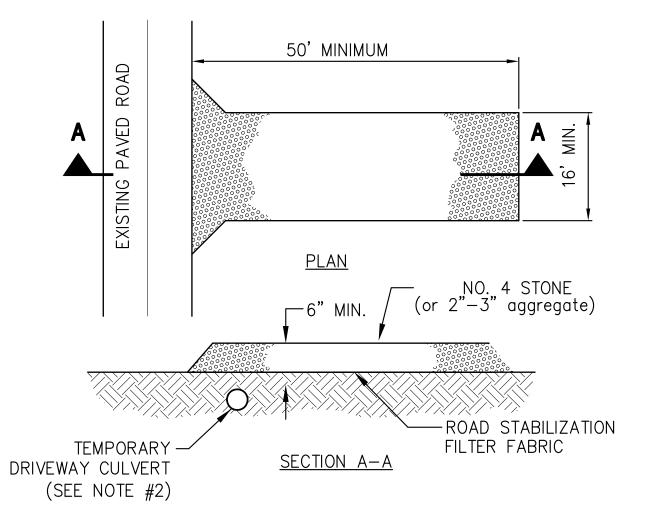


#### SILT FENCE DETAIL D-102 NOT TO SCALE

1. CONTRACTOR MAY USE 10x10 WIRE-REINFORCED SILT FENCE WITH METAL POST. IF SO, SPACING BETWEEN METAL POSTS MAY BE INCREASED TO 8-FEET WITH STANDARD STRENGTH FABRIC. 2. HARDWARE CLOTH OPENINGS MAY BE USED AT CONCENTRATED LOW POINTS IN ACCORDANCE WITH NCDEMLR STANDARDS.



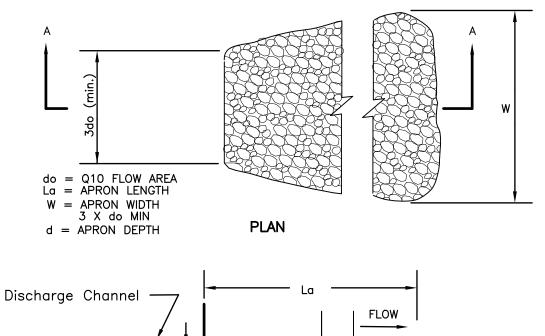
(Pr WIRE/GRAVEL INLET PROTECTION NOT TO SCALE

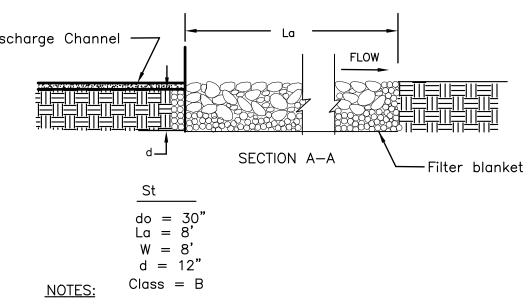


1. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO RIGHTS OF WAY. THE CONTRACTOR SHALL APPLY PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND OR AS LOCAL AUTHORITIES REQUIRE.

CONTRACTOR SHALL INSTALL 24" TEMPORARY DRIVEWAY CULVERT IN FLOWLINE OF ROADSIDE SWALE. BED AND BACKFILL PER MANUFACTURER TO PREVENT DAMAGE DURNING CONSTRUCTION. IF PIPE IS TO BE LEFT IN PLACE, USE CLASS V RCP, SIZE AND LOCATION AS SHOWN ON PLAN SHEET C-241.

# **TEMPORARY** CONSTRUCTION ENTRANCE D-102 NOT TO SCALE





ALL RIP-RAP APRONS SIZED TO WORST CASE: St DIMENSION SHOWN APPLY 1. La is the length of the riprap apron.

2. d = 1.5 times the maximum stone diameter but not less than 6"

3. A filter blanket or filter fabric shall be installed between the riprap and soil foundation.

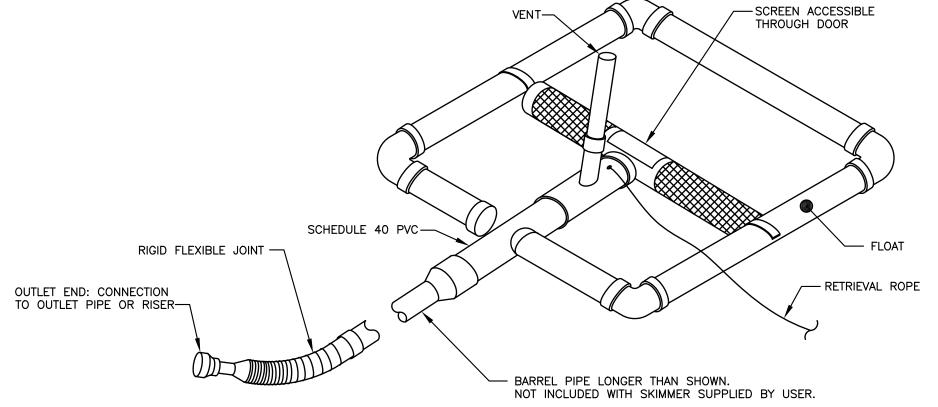
# NOT TO SCALE

(St)

# ENERGY DISSIPATER

RY SEEDII	NG			
F	AMOUNT/	TIME OF	ΙΝΙΤΙΔΙ	FERTILIZATION/1000 SF.

PERMANENT SEEDII	NG					
GRASS TYPE	AMOUNT/ 1000 SF.	TIME OF SEEDING	INITIAL	FERTILIZATION/10	000 SF.  MAINTENANCE	
BERMUDA, COMMON	1-2 LBS.	APR. THRU JUNE	25 LBS. 10-10-10	MARCH - APRIL 12 LBS. 10-10-10	EACH 4-8 WEEKS 1-2 LBS. N.	AUG. – SEPT. 12 LBS. 10–10–10
FESCUE, TALL (KENTUCKY 31)	5-7 LBS.	SEPT. THRU OCT. FEB. THRU OCT.	25 LBS. 10-10-10	FEB MARCH 12 LBS. 10-10-10	MAY & DEC. 1/2 TO 1 LB. N.	SEPT OCT. 12 LBS. 10-10-10
SERICEA   LESPEDEZA (SLOPES)	1-2 LBS.	MARCH THRU APR.	25 LBS. 10-10-10	FEB. — MARCH	1/2 TO 1 LB. N.	NA



# DRAWDOWN SKIMMER NOT TO SCALE

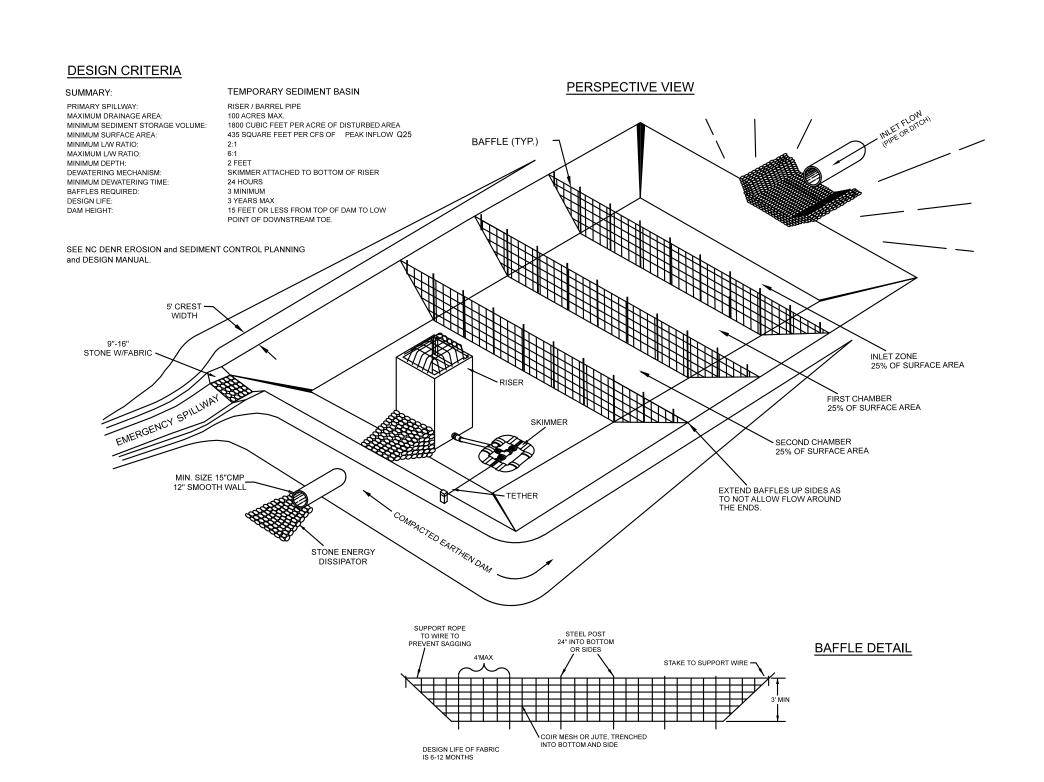
1. SKIMMER IS TO BE A SURFACE DEWATERING DEVICE SUCH AS BMP SKIMMER OR APPROVED DEVICE.

2. SKIMMER SHOULD RISE TO LEVEL OF WEIR HEIGHT IN TEMPORARY BASIN OR TO RISER INLET.

3. ROPE ATTACHED TO SKIMMER TO HELP KEEP CLEAN. 4. SKIMMER SHALL BE SUPPORTED ABOVE BOTTOM OF BASIN SO AS TO BE FREE OF SILT AND PREVENT EMBEDMENT IN BASIN BOTTOM. A PEDESTAL OF #4 STONE IS AN ACCEPTABLE SUPPORT (MINIMUM HEIGHT ABOVE BASIN BOTTOM 1-FT).

5. SKIMMER SIZED IN ACCORDANCE WITH NCDENR GUIDELINES (1.4" ORIFICE) UTILIZING FAIRCLOTH SKIMMER SIZING ROUTINE (PROVIDED TO NEW HANOVER COUNTY IN PROJECT CALCULATIONS)

6. SKIMMER SHALL OUTLET INTO RISER STRUCTURE AT NORMAL POOL ELEVATION (SEE SHEET C-221).





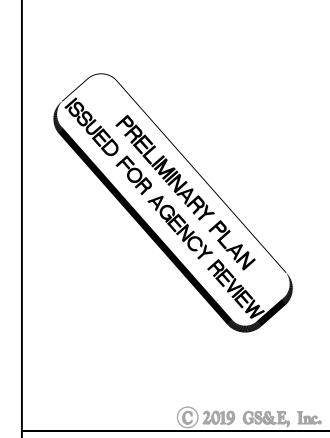


POST OFFICE BOX 16110 WILMINGTON, NC 28408 910 - 742 - 3860 PROFESSIONAL FIRM# C-3790

**AUTO WASH** & LUBE FACILITY **WILMINGTON** NORTH CAROLINA PREPARED FOR:

ASHCOURT CENTER, LLC WILMINGTON, NC

NO.	DATE	OTS	DESCRIPTION	



Scales, as stated hereon, are valid on the original drawing; the dimensions of which are 24 by 36 inches. These scales, noted hereon, are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original

This drawing is the property of GEOMATICS, SURVEYING & ENGINEERING, INC. and is not to be reproduced or copied in whole or in part. It is only to be used for the project and site specifically identified herein and is not to be used on any other project. It is to be returned upon request.

DRAWING TITLE **SEDIMENTATION & EROSION CONTROL DETAILS** 

15

14

DRAWN BY	CHECKED BY
FCL	FCL
DRAWING DATE	DRAWING NUMBER
03/XX/19	D-102
ROJECT NUMBER	D-107
20-65	<b>10</b> OF <b>10</b>
NOT ISSUED FOR	R CONSTRUCTION

TEMPORARY