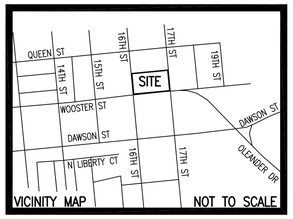
SURVEY TOPO AND BOUNDARY PROVIDED BY :



STORMWATER MANAGEMENT
PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____
PERMIT # _____
SIGNED _____

APPROVED CONSTRUCTION PLAN
NAME_____ DATE_____
PLANNING_____
TRAFFIC _____
FIRE_____

SURVEYOR'S NOTE:

THIS MAP IS SUBJECT TO INFORMATION THAT WOULD BE REVEALED BY A CURRENT TITLE OPINION.

CERTIFICATE:
THIS SURVEY IS OF AN EXISTING PARCEL OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET. (FUTURE RECOMBINATION MAP FOR RECORD TO BE RECORDED)

NORTH CAROLINA PROFESSIONAL SEAL L-2962 LAND SURVEYOR MICHAEL N. UNDERWOOD

FEBRUARY 26, 2014
MICHAEL N. UNDERWOOD, P.L.S. L-2962 DATE

NORTH CAROLINA

NEW HANOVER COUNTY

I, MICHAEL N. UNDERWOOD, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION DESCRIPTION AS SHOWN ON THE FACE OF THIS PLAT RATIO OF PRECISION AS CALCULATED BY COMPUTER IS 1/10,000 + THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN BY BROKEN LINES PLOTTED FROM INFORMATION REFERENCED THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH "THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA" WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 26TH DAY OF FEBRUARY A.D., 2014.

MICHAEL N. UNDERWOOD, P.L.S.
LICENSE NUMBER L-2962
SEAL OR STAMP

© 2014 MICHAEL UNDERWOOD AND ASSOCIATES, PA

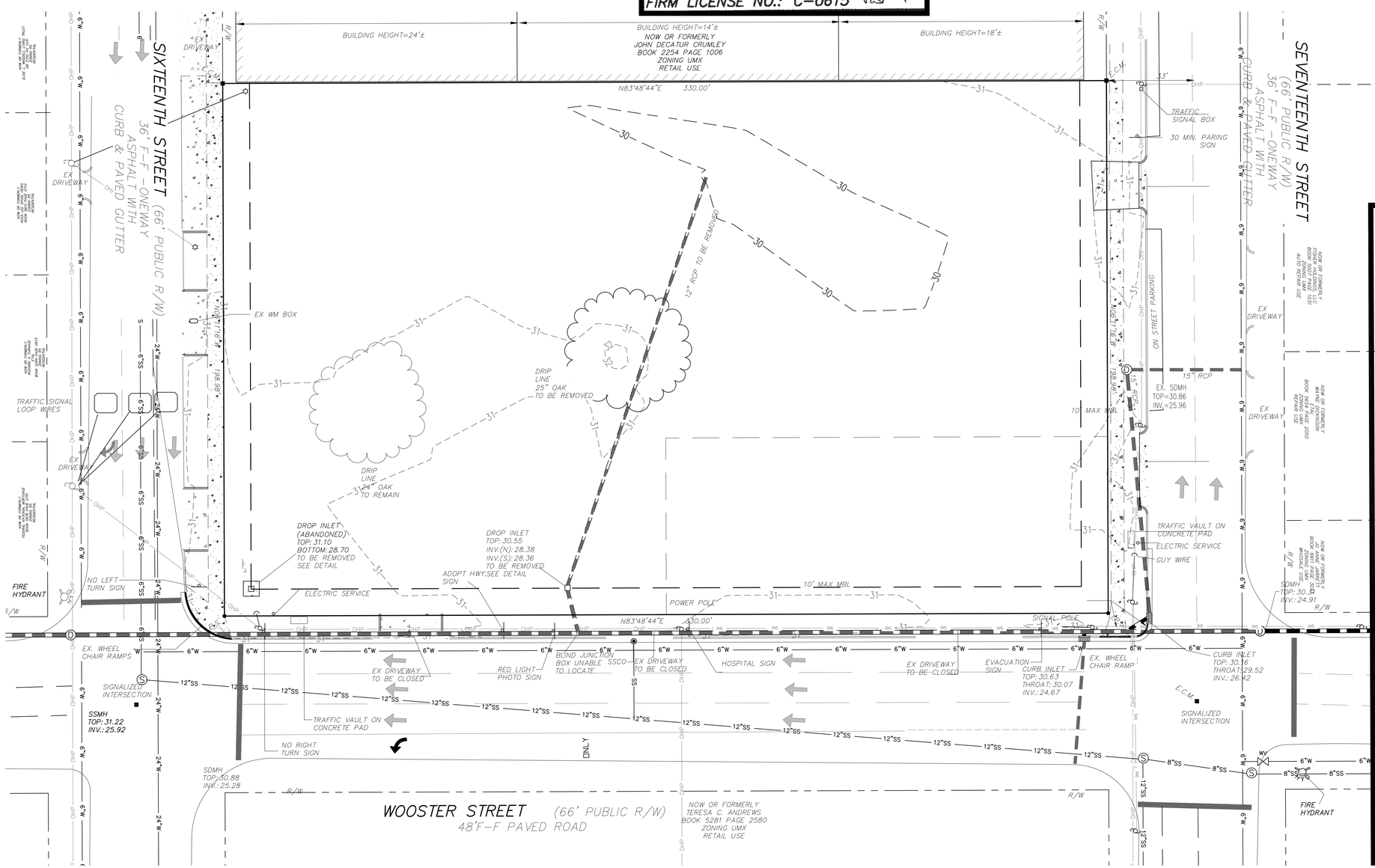
MICHAEL UNDERWOOD and ASSOCIATES, PA
102 CINEMA DRIVE, SUITE C
WILMINGTON, NC 28403
PHONE: 910-815-0650
FAX: 910-815-0393
FIRM LICENSE NO.: C-0615

CIVIL LEGEND

SS	SANITARY SEWER (GRAVITY) WITH SIZE
	STORM SEWER
W	DOMESTIC WATER WITH SIZE
OHP	OVERHEAD POWER
UGE	UNDERGROUND ELECTRICAL
G	UNDERGROUND GAS
OHS	OVERHEAD SIGNAL LINE
FO	UNDERGROUND FIBER OPTIC CABLE
	TRAFFIC SIGNAL BOX
	WATER VALVE
	RPZ BACKFLOW PREVENTER
	WATER METER
	SANITARY SEWER MANHOLE
	SIGN
	STORM DRAIN CURB INLET
	FIRE HYDRANT
	SOILS BORE LOC.
TPED	COMMUNICATIONS PEDESTAL
GV	
	UTILITY POLE/POLE WITH LIGHT
	GUY WIRE

LEGEND:

E.I.P.	*EXISTING IRON PIPE*
E.C.M.	*EXISTING CONCRETE MONUMENT*
E.I.R.	*EXISTING IRON REBAR*
O	*PROPERTY CORNER*
N.P.F.	*NO POINT FOUND*
℄	*CENTER LINE*
P	*PROPERTY LINE*
SS	*SANITARY SEWER*
MH	*MANHOLE*
CO	*CLEAN OUT*
SD	*STORM DRAIN*
W	*WATER LINE*
GAS	*UNDERGROUND GAS*
OHP	*OVERHEAD POWER*
UGE	*UNDERGROUND ELECTRIC*
FO	*FIBER-OPTIC*
	WATER/DITCH
	CHAIN LINK FENCE
	BUILDING LINE
	BOUNDARY LINE
	CONCRETE AREA
	GRAVEL AREA



SITE DATA

DEVELOPER
EASTERN PRIDE, INC.
2405-F NASH STREET
WILSON, NC 27896

OWNER
THOMASON REALTY INVEST LP
910 SAND MILLS BLVD
ABERDEEN, NC 28315

GENERAL CONTRACTOR:
STOCKS AND TAYLOR CONSTRUCTION, INC.
1825 CAROLINA AVENUE
WASHINGTON, NC 27889

GENERAL BUILDING INFORMATION
TOTAL LOT SIZE = 1.51 AC TO R/W

ZONING INFORMATION:
PARCEL ID NO. - 312710.45.4701&3500
SITE ZONING: UMX
SETBACKS:
MINIMUM BUILDING SETBACKS (UNLESS NOTED)
FRONT: 0' - MAX. 10' MAX HEIGHT - 45'
SIDE: 0'
REAR: 0'
BUILDING HEIGHT: 20'

TRANSPORTATION CLASSIFICATION
WOOSTER STREET - URBAN PRINCIPAL ARTERIAL
16TH STREET - URBAN PRINCIPAL ARTERIAL
17TH STREET - URBAN PRINCIPAL ARTERIAL

CAMA LAND USE
URBAN

UTILITIES:
WATER LINE: CFPUA
WASTEWATER: CFPUA
ELECTRIC SERVICE: - UNDERGROUND - DUKE ENERGY
NATURAL GAS SERVICE: PIEDMONT NATURAL GAS

GENERAL SITE NOTES:

ALL EXISTING UTILITIES ARE SHOWN BASED ON FIELD EVIDENCE

PRIOR TO ANY DIGGING NC ONE CALL SHALL BE CALLED AND CONFIRM LOCATION AND SIZE OF ALL EXISTING UTILITIES.
A TREE REMOVAL PERMIT IS REQUIRED PRIOR TO THE REMOVAL OF ANY TREES ON THE SITE.

NOTES:
1.) SUBJECT PROPERTY "DOES NOT" LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. SAID DESCRIBED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X"(OTHER AREAS) BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON PANEL No. 3127, FLOOD INSURANCE RATE MAP NO. 3720312700 J, WITH A EFFECTIVE DATE OF APRIL 3, 2006, FOR COMMUNITY NO. 370171, IN NEW HANOVER COUNTY, STATE OF NORTH CAROLINA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
2.) ALL DISTANCES ARE GROUND HORIZONTAL.
3.) NO N.C.G.S. FOUND WITHIN 2000'.
4.) UTILITY STATEMENT: THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED UNDERGROUND UTILITIES.

Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

SITE INVENTORY- EX. CONDITIONS

FAMILY DOLLAR STORE
709 S. 16TH STREET
WILMINGTON, NC

NORTH CAROLINA PROFESSIONAL SEAL 20212 ENGINEER MARIE UMPHLETT PEEDIN

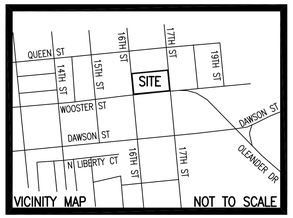
PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P-0530

Pamlico Engineering Services

PAMLICO ENGINEERING SERVICES
128 Abbey Lane
Washington, NC 27889
252-945-2983
mpeedin@pamlicoengineringservices.com

Date	Description

File No. 14001
Scale: 1" = 20'
Sheet No.
C-001



A permit must be obtained from the city engineer prior to the removal, alteration or construction of any curb, driveway, gutter and/or pavement or prior to the performance of any other work in any public or private street. Conditions governing the issuance of such a permit are:

a. A continuing indemnity bond with sufficient surety acceptable to the city may be required of the party performing the work. All work must be done in conformity with the standards established herein.

b. The city shall be indemnified for any damages it might sustain as a result of the breach of condition above. The damages payable to the city shall be the amount required to make such improvement conform to city standards.

(2) A fee in accordance with the city's adopted fee schedule shall be paid to the city at the time the application for a driveway permit is made.

North Carolina
One-Call Center

811
Know what's below.
Call before you dig.

SURVEY TOPO AND BOUNDARY PROVIDED BY :

MICHAEL UNDERWOOD and ASSOCIATES, PA
102 CINEMA DRIVE, SUITE C
WILMINGTON, NC 28403
PHONE: 910-815-0650
FAX: 910-815-0393
FIRM LICENSE NO: C-0615

STORMWATER MANAGEMENT
PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____
PERMIT # _____
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APPROVED CONSTRUCTION PLAN
NAME_____ DATE_____
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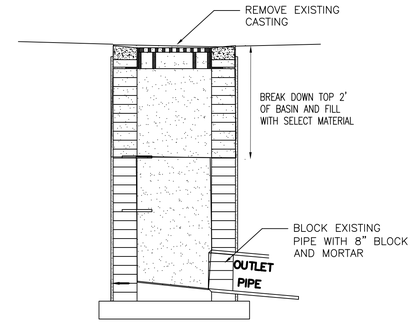
TRAFFIC_____
FIRE_____



1 REMOVE DRAINAGE STRUCTURE
NTS

CIVIL LEGEND

SS	SANITARY SEWER (GRAVITY) WITH SIZE
	STORM SEWER
W	DOMESTIC WATER WITH SIZE
OHP	OVERHEAD POWER
UGE	UNDERGROUND ELECTRICAL
G	UNDERGROUND GAS
OHS	OVERHEAD SIGNAL LINE
FO	UNDERGROUND FIBER OPTIC CABLE
	TRAFFIC SIGNAL BOX
	WATER VALVE
	RPZ BACKFLOW PREVENTER
	WATER METER
	SANITARY SEWER MANHOLE
	SIGN
	STORM DRAIN CURB INLET
	FIRE HYDRANT
TPED	SOILS BORE LOC. COMMUNICATIONS PEDESTAL
GV	
	UTILITY POLE/POLE WITH LIGHT
	GUY WIRE

LEGEND:

E.I.P.	EXISTING IRON PIPE
E.C.M.	EXISTING CONCRETE MONUMENT
E.I.R.	EXISTING IRON REBAR
O	PROPERTY CORNER
N.P.F.	NO POINT FOUND
℄	CENTER LINE
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MH	MANHOLE
CO	CLEAN OUT
SD	STORM DRAIN
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GAS	UNDERGROUND GAS
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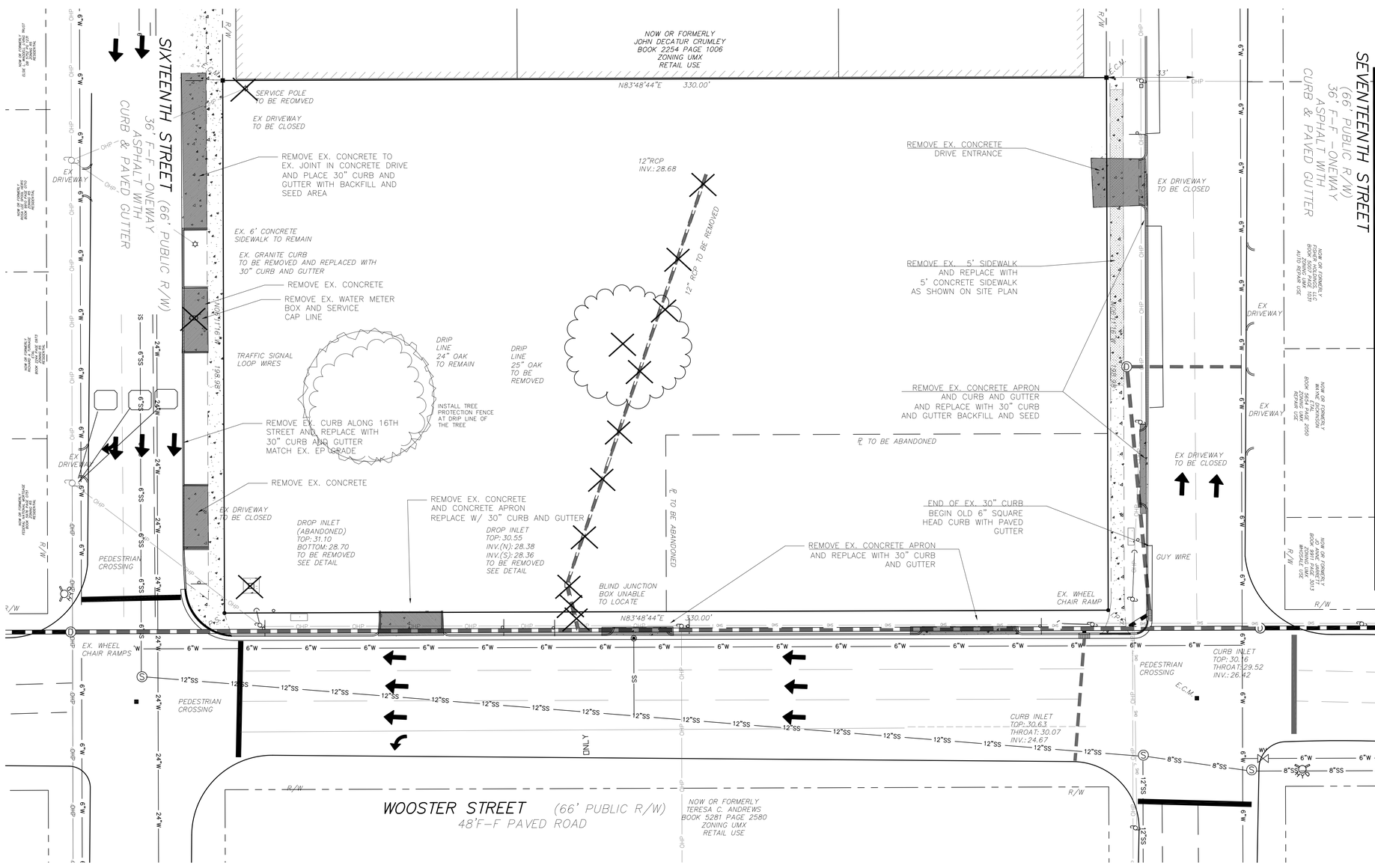
UGE	UNDERGROUND ELECTRIC
FO	FIBER-OPTIC
	WATER/DITCH
	CHAIN LINK FENCE
	BUILDING LINE
	BOUNDARY LINE
	CONCRETE AREA
	GRAVEL AREA



SITE DATA

DEVELOPER
EASTERN PRIDE, INC.
2405-F NASH STREET
WILSON, NC 27896

OWNER
THOMASON REALTY INVEST LP
ABERDEEN, NC

GENERAL CONTRACTOR:
STOCKS AND TAYLOR CONSTRUCTION, INC.
1825 CAROLINA AVENUE
WASHINGTON, NC 27889

GENERAL BUILDING INFORMATION
TOTAL LOT SIZE = 1.51 AC TO R/W

ZONING INFORMATION:
PARCEL ID NO. – 312710.45.4701&3500
SITE ZONING: UMX
SETBACKS:
MINIMUM BUILDING SETBACKS (UNLESS NOTED)
FRONT: 0' – MAX. 10' MAX HEIGHT – 45'
SIDE: 0'
REAR: 0'
BUILDING HEIGHT: 20'

TRANSPORTATION CLASSIFICATION
WOOSTER STREET – URBAN PRINCIPAL ARTERIAL
16TH STREET – URBAN PRINCIPAL ARTERIAL
17TH STREET – URBAN PRINCIPAL ARTERIAL

CAMA LAND USE
URBAN

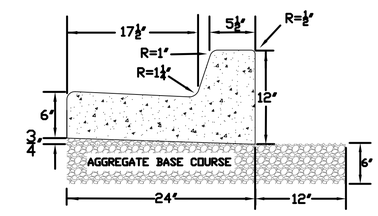
UTILITIES:
WATER LINE: CFPUA
WASTEWATER: CFPUA
ELECTRIC SERVICE: – UNDERGROUND – DUKE ENERGY
NATURAL GAS SERVICE: PIEDMONT NATURAL GAS

GENERAL SITE NOTES:

ALL EXISTING UTILITIES ARE SHOWN BASED ON FIELD EVIDENCE

PRIOR TO ANY DIGGING NC ONE CALL SHALL BE CALLED AND CONFIRM LOCATION AND SIZE OF ALL EXISTING UTILITIES.
A TREE REMOVAL PERMIT IS REQUIRED PRIOR TO THE REMOVAL OF ANY TREES ON THE SITE.

PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. AN NO CONSTRUCTION WORKERS, TOOLS, MATERIAL OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING. TREE PROTECTION FENCING MUST BE POSTED WITH SIGNAGE , IN ENGLISH AND SPANISH THAT NO WORKERS TOOLS, MATERIAL OR VEHICLES ARE PERMITTED WITH IN THE PROTECTED AREA.



VERTICAL CURB AND GUTTER

Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

DEMOLITION PLAN

FAMILY DOLLAR STORE
709 S. 16TH STREET
WILMINGTON, NC

NORTH CAROLINA PROFESSIONAL SEAL 20212 ENGINEER MARIE UMPHLETT PEEDIN

PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P-0530

PAMLICO ENGINEERING SERVICES
128 Abbey Lane
Washington, NC 27889
252-945-2983
mpeedin@pamlicoengineringservices.com

Date	Description

File No. 14001
Scale: 1" = 20'
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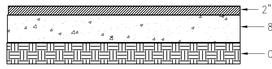
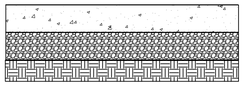
C-002



2 TYPICAL PAVEMENT SECTION

IN AREAS WITH OUT PERVIOUS CONCRETE Scale: Not To Scale



3 TYPICAL PERVIOUS PAVEMENT SECTION

Scale: Not To Scale

A. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
B. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 FORTY EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY
C. IMMEDIATELY NOTIFY CITY OF WILMINGTON TRAFFIC ENGINEERING AT 910-341-7888 IF ANY TRAFFIC SIGNAL FACILITIES OR CITY OWNED STREET LIGHT FACILITIES ARE DAMAGED
D. DAMAGED FACILITIES SHALL BE REPLACED BY AN APPROVED CONTRACTOR, ACCORDING TO STANDARD NCDOT REPLACEMENT SCHEDULES AND CURRENT NCDOT DESIGN STANDARDS
E. ALL REPAIR REPLACEMENT OF TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE COORDINATED WITH THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION.
F. VERIFY THE LOCATION OF THE CITY OF WILMINGTON TRAFFIC SIGNAL SYSTEM FIBER RUNNING ALONG 16TH, 17TH AND WOOSTER ST. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO DETERMINE IF THIS FIBER HAS TO BE RELOCATED

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____
PERMIT # _____
SIGNED _____

APPROVED CONSTRUCTION PLAN
NAME_____ DATE_____
PLANNING_____
TRAFFIC_____
FIRE_____

DEVELOPER
EASTERN PRIDE, INC.
2405-F NASH STREET
WILSON, NC 27896

GENERAL CONTRACTOR:
STOCKS AND TAYLOR CONSTRUCTION, INC.
1825 CAROLINA AVENUE
WASHINGTON, NC 27889

GENERAL BUILDING INFORMATION
BUILDING USE: COMMERCIAL - RETAIL
BUILDING SIZE: 9,914 SF

7427 SF RETAIL, 2487 SF OTHER
BUILDING HEIGHT: 20 FT
BUILDING CONSTRUCTION TYPE = V-B

BUILDING LOT COVERAGE
9914SF /65,775.6SF = 15.07%
NO. OF BUILDINGS = 1

OWNER
THOMASON REALTY INVEST LP
910 SAND MILLS BLVD
ABERDEEN, NC 28315

SUMMARY OF SITE:

TOTAL IMPERVIOUS AREA
BUILDING = 9914.00 SF
SIDEWALK (ONSITE) = 1228.74 SF
PAVEMENT = 10,495.00 SF
PERVIOUS PAVEMENT = 10,631.00 SF
SIDEWALK = 2640.00 SF
(ON SITE ALONG WOOSTER)

TOTAL LOT SIZE = 1.51 AC TO R/W

TOTAL IMPERVIOUS AREA = 34,908.74 SF
TOTAL GREEN SPACE = 30,867.8 SF

TOTAL PERVIOUS PAVEMENT = 10,631 SF
% IMPERVIOUS EXISTING = 000%
% IMPERVIOUS PROPOSED = 34,908.74/65775.6 = 53%
(WITH NO CREDIT FOR PERVIOUS PAVEMENT)

ZONING INFORMATION:
PARCEL ID NO. - 312710.45.4701 & 3500
SITE ZONING: UMX
SETBACKS:

MINIMUM BUILDING SETBACKS (REQUIRED)		PROVIDED
FRONT:	0' - MAX. 10'	7.8'
SIDE:	0'	7.8, 221.5'
REAR:	0'	91.2'
BUILDING HEIGHT MAX	45'	20'

TRANSPORTATION
WOOSTER STREET - URBAN PRINCIPAL ARTERIAL
16TH STREET - URBAN PRINCIPAL ARTERIAL
17TH STREET - URBAN PRINCIPAL ARTERIAL

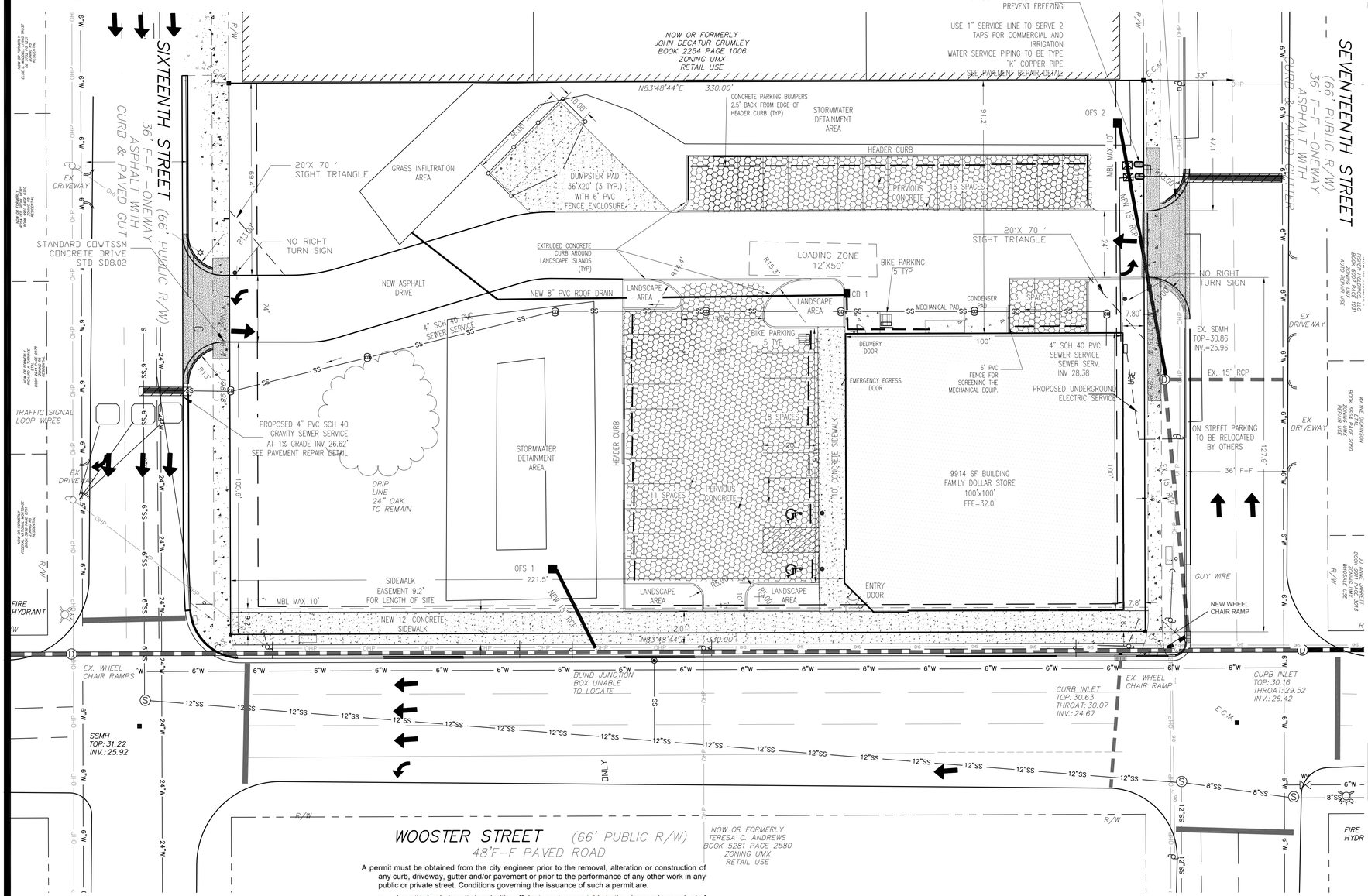
SIGHT LIGHTING
ALL SIGHT LIGHTING SHALL BE LOCATED, ANGLED SHIELDED, AND OR LIMITED IN INTESITY SO AS TO CAST NO DIRECT LIGHT UPON ADJACENT PROPERTIES, SHALL MINIMIZE OFF-SITE BACKLIGHTING GLARE, AND UP LIGHTING. LIGHT POST SHALL B NO TALLER THAN TWELVE FEET.

UTILITIES:
WATER LINE: CFPUA
WASTEWATER: CFPUA
WASTEWATER SERVICE: 4" SEWER SERVICE
WATER SERVICE: 1" WATER SERVICE
ELECTRIC SERVICE: - UNDERGROUND - DUKE ENERGY
NATURAL GAS SERVICE: PIEDMONT NATURAL GAS

SEWER USAGE = 1080 GPD
WATER USAGE = 1080 GPD

SIGNAGE
FREE STANDING MAX AREA = 35 SF MONNUMENT
WALL SIGN MAX AREA = 200 SF
SIGNAGE WILL REQUIRE A SEPARATE PERMITTING AND REVIEW PROCESS THROUGH THE CITY ZONING DEPT.

CAMA LAND USE CLASSIFICATION
URBAN



1 SITE-UTILITY PLAN

SCALE: 1" =20'

20 0 10 20 40

GRAPHIC SCALE: 1" = 20'

A permit must be obtained from the city engineer prior to the removal, alteration or construction of any curb, driveway, gutter and/or pavement or prior to the performance of any other work in any public or private street. Conditions governing the issuance of such a permit are:

a. A continuing indemnity bond with sufficient surety acceptable to the city may be required of the party performing the work. All work must be done in conformity with the standards established herein.

b. The city shall be indemnified for any damages it might sustain as a result of the breach of condition above. The damages payable to the city shall be the amount required to make such improvement conform to city standards.

(2) A fee in accordance with the city's adopted fee schedule shall be paid to the city at the time the application for a driveway permit is made.

NOTE:
SEE SHEET C001 FOR INVENTORY SHEET
SEE SHEET C002 FOR DEMOLITION
SEE SHEET C003 SITE UTILITY
SEE SHEET C004 FOR EROSION CONTROL MEASURES AND DETAILS
SEE SHEET C005 FOR STORM WATER MANAGEMENT PLAN
SEE SHEET C006 FOR LANDSCAPE PLANS
SEE SHEETS C 007-008 FOR DETAILS

APPLICANT STATEMENT:
A. THERE ARE NO EXISTING EASEMENT OR OTHER RESTRICTIONS ON THE PROPERTY WHICH THE APPLICANT IS AWARE OF HOWEVER THE APPLICANT IS PROPOSING A BMP EASEMENT FOR THE PROPOSED BMP ON THE SITE AS WELL AS A SIDEWALK ENCROACHMENT AND MAINTENANCE EASEMENT.
B. THERE IS CURRENTLY PUBLIC SEWER, WATER AND STREETS AVAILABLE TO THIS SITE FOR USE.
C. BASED ON THE DATA COLLECTED, IN THE OPINION OF THE APPLICANT THE ONLY PROBLEM IS THE SIDE YARD/ FRONT YARD MAX 10' SET BACK OFF 16TH STREET. THIS SITE HAS NO INTENTIONS OF PLACING ANOTHER BUILDING.

PARKING REQUIREMENTS:
PARKING SPACES TO BE TYPICAL (9 FEET X 20 FEET) UNLESS OTHERWISE NOTED
VEHICULAR REQUIREMENTS
PARKING BUILDING CODE REQUIREMENTS:
1 SPACE PER 200 SF RETAIL MAX

BICYCLE PARKING
REQUIRED: 1 PER 1000 SF GFA
PROVIDED: 10 SPACES

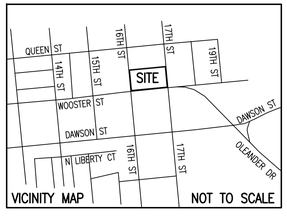
PARKING SPACES REQUIRED: 50 MAX
PARKING PROVIDED TOTAL: 38
HANDICAPPED ACCESSIBLE: 2
HANDICAPPED ACCESSIBLE PARKING TO BE (2 EQUAL SPACES) PER LOCAL CODE

GENERAL SITE NOTES:
ALL NEW SERVICES SHALL MEET ALL NC BUILDING CODE REQUIREMENTS
ALL EXISTING UTILITIES ARE SHOWN BASED ON FIELD EVIDENCE
PRIOR TO ANY DIGGING NC ONE CALL SHALL BE CALLED AND CONFIRM LOCATION AND SIZE OF ALL EXISTING UTILITIES. A TREE REMOVAL PERMIT IS REQUIRED PRIOR TO THE REMOVAL OF ANY TREES ON THE SITE.

SITE SURVEY NOTES:
1) THE PROPERTY SHOWN HEREON IS NOT LOCATED WITHIN A SPECIAL 100 YEAR FLOOD HAZARD AREA ACCORDING TO FLOOD INSURANCE RATE MAP NO. 3720312700J DATED APRIL 13, 2006.
2) ALL N.C. GRID DATA SHOWN HEREON IS BASED ON NAD 1983 2007 ADJUSTMENT USING THE NCGS RTK NETWORK SYSTEM.
3) ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
4) ALL UTILITY LINES SHOWN HEREON MAY HAVE EASEMENTS AND RIGHTS OF ENTRANCE AND MAINTENANCE ASSOCIATED WITH THEM, HOWEVER NONE ARE PRESENT THAT HAVE BEEN RECORDED.
5) UNDERGROUND UTILITY LINES NOTED AS SUCH HEREON WERE FROM GIS DATA PROVIDED BY CFPUA. THE UTILITIES HAVE NOT BEEN PHYSICALLY SEEN AND SURVEYED BY THE SURVEYOR.

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. All pavement markings in public rights-of-way and for driveways are to be thermoplastic and meet City and/or NCDOT standards.
5. Once streets are open to traffic, contact Traffic Engineering regarding the installation of traffic and street name signs. Proposed street names must be approved prior to installation of street name signs.
6. 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.
7. Contact Traffic Engineering at 910-341-7888 to ensure that all traffic signal facilities and equipment are shown on the plan.
8. Call Traffic Engineering at 910-341-7888 forty-eight (48) hours prior to any excavation in the right-of-way.
9. Traffic Engineering must approve of pavement marking prior to actual striping.
10. All parking stall markings and lane arrows within the parking areas shall be white.
11. All traffic control signs and markings off the right-of-way are to be maintained by the property owner.
12. Stop signs and street signs to remain in place during construction.
13. Tactile warning mats will be installed on all wheelchair ramps.
14. 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 cut may be required.
15. Any broken or missing sidewalk panels , driveway panels and curbing will be replaced.
16. Contact Karen Dixon at 910-341-7888 to discuss street lighting options.
17. Water and sewer service shall meet Cape Fear Public Utility Authority (CFPUA) details and specifications.
18. Project shall comply with CFPUA Cross Connection Control requirements. Water meter(s) cannot be released until all requirements are met and the State has given their final approval. Call 910-343-3910 for information.
19. If the contractor desires CFPUA 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.
20. Any irrigation system supplied by CFPUA water shall comply with the CFPUA Cross Connection Control regulations. Call 919-343-3910 for information.
21. Any irrigation system shall be equipped with a rain and freezer sensor.
22. Any backflow prevention devices required by the CFPUA will need to be on the list of approved devices by USCFCCCHR or ASSE.
23. Contractor to field verify existing water and sewer service locations, sizes and materials prior to construction. Engineer to be notified of any conflicts.
24. Contractor shall maintain all-weather access for emergency vehicles at all times during construction.

25. 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 910-341-0696.
26. No obstructions are permitted in the space between thirty (30) inches and ten (10) feet above the ground within the triangular sight distance.
27. Contact the North Carolina One Call Center at 1-800-632-4949 prior to doing any digging, clearing, or grading



Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

SITE-UTILITY PLAN

FAMILY DOLLAR STORE
709 S. 16TH STREET
WILMINGTON, NC

NORTH CAROLINA PROFESSIONAL SEAL 22212 ENGINEER MARIE UMPHLETT PEEDIN

PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P-0530

PAMLICO ENGINEERING SERVICES
128 Abbey Lane
Washington, NC 27889
252-945-2983
mpeedin@pamlicoengineringservices.com

REVISIONS	
Date	Description
3/26/14	COW COMMENTS FROM TRC REV. 1

File No. 14001

Scale: 1" = 20'

Sheet No.

C-003

SEEDING PLAN

1. TEMPORARY SEEDING

PLANING DATES	GRASS TYPE	POUNDS/ACRE
DEC. 1 – APR. 15	RYE (GRAIN)	120
	KOBE LESPEDEZA	50
APR. 15 – AUG. 15	GERMAN MILLET	40
AUG. 15 – DEC. 1	RYE (GRAIN)	120
LIME		3,000
FERTILIZER	10–10–10	800
MULCH	STRAW	4,000

2. PERMANENT SEEDING

PLANING DATES	GRASS TYPE	POUNDS/ACRE
SEPT. 1 – OCT. 3	TALL FESCUE	200
	KOBE LESPEDEZA	50
	RYE (GRAIN)	25
LIME		4,000
FERTILIZER	10–10–10	1,000
MULCH	STRAW	4,000

INLET PROTECTION

LD — LIMITS OF DISTURBANCE

SILT FENCE

ROCK CHECK DAM

OUTLET PROTECTION

TEMP. COSNTRUCTION ENTRANCE

ARC FILTER

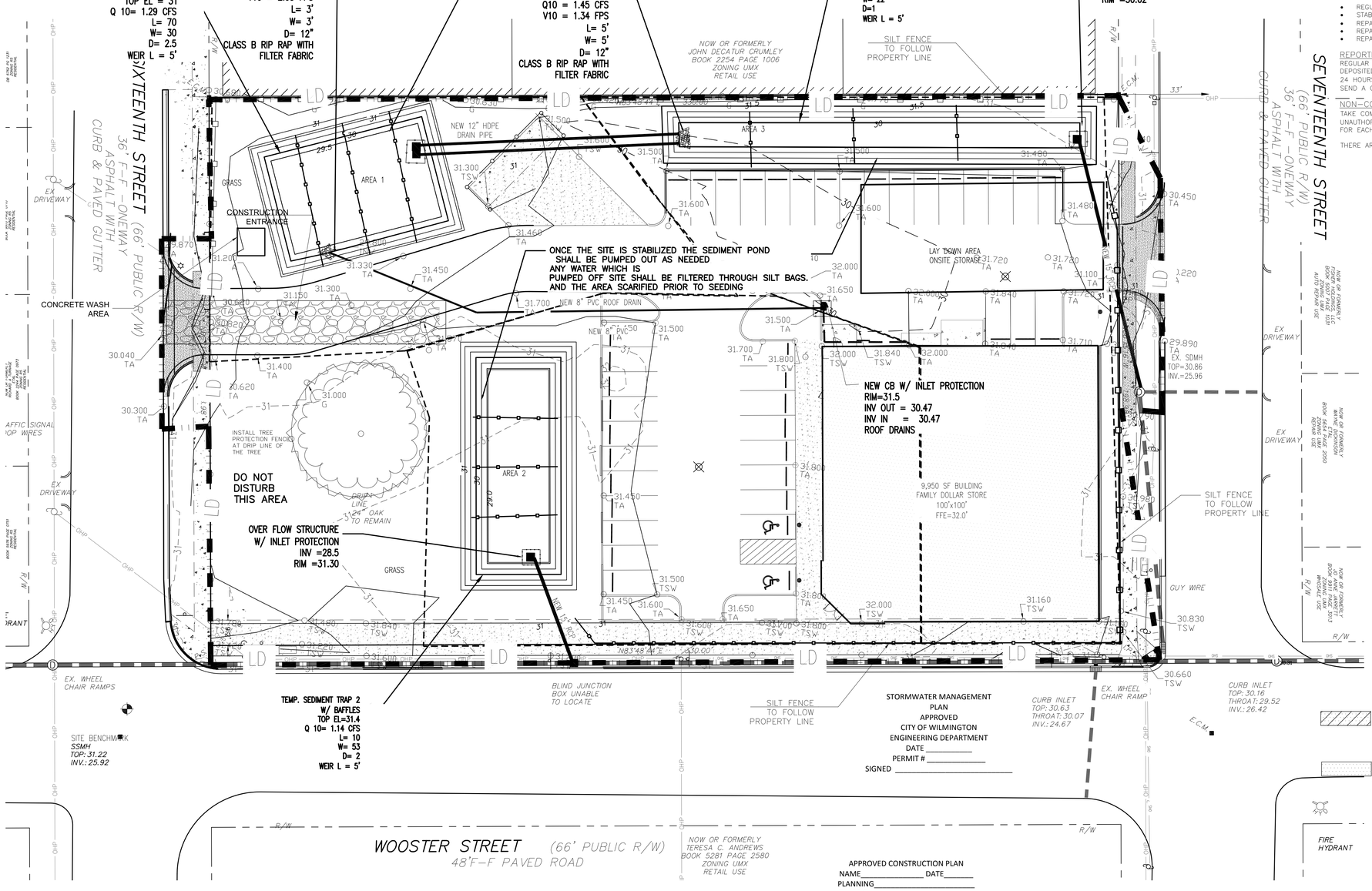
XX.X PROPOSED SPOT ELEVATION

TSW = TOP OF SIDEWALK

EROSION CONTROL CONSTRUCTION SEQUENCE

1. OBTAIN AND POST COPY OF CERTIFICATE OF EROSION CONTROL PLAN APPROVAL.
2. CLEAR SITE ONLY AS NECESSARY TO INSTALL EROSION CONTROL DEVICES AS INDICATED ON THE DRAWINGS OR SPECIFIED IN THE SPECIFICATIONS.
3. ONCE EROSION CONTROL DEVICES ARE INSTALLED, BEGIN DEMOLITION OPERATIONS.
4. MAINTAIN EROSION CONTROL DEVICES AS NECESSARY DURING CONSTRUCTION. INSPECT DEVICE AFTER EVERY RAINFALL EVENT AND CLEAN OUT TRAPS AND /OR CHECK DAMS WHEN HALF FULL.
5. AS CONSTRUCTION PROGRESSES, INSTALL ADDITIONAL EROSION CONTROL DEVICES AS INDICATED ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, OR AS NEEDED OR DIRECTED BY ENGINEER.
6. SEED AND MULCH DISTURBED AREAS AS STATED BELOW BASED ON WORKING DAYS:
   A. UPON COMPLETION OF ANY PHASE OF CONSTRUCTION
   B. WHEN WORK WILL NOT PROCEED IN AN AREA WITHIN THE ABOVE TIME FRAME.
7. AFTER SITE IS STABILIZED, REQUEST AN INSPECTION BY THE ENGINEER. UPON APPROVAL OF SITE STABILIZATION, REMOVE TEMPORARY EROSION DEVICES, DRESS OUT AREA AND SEED AND MUCH. PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED AND APPROVED BY ENGINEER.

AREA	
DISTURBED AREA AC	1.55
DRAINAGE AREA 1	0.51
DRAINAGE AREA 2	0.45
DRAINAGE AREA 3	0.55



STORMWATER MANAGEMENT PLAN APPROVED CITY OF WILMINGTON ENGINEERING DEPARTMENT
DATE _____
PERMIT # _____
SIGNED _____

APPROVED CONSTRUCTION PLAN
NAME_____ DATE_____
PLANNING_____
TRAFFIC _____
FIRE_____

1 EROSION CONTROL PLAN
SCALE: 1" =20'

GRAPHIC SCALE: 1" = 20'

NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.

OWNER: EASTERN PRIDE, INC.
2405–F NASH STREET
WILSON, NC 27804

GENERAL CONTRACTOR – STOCKS AND TAYLOR CONSTRUCTION, INC
WASHINGTON, NC

WHAT DOES THIS PERMIT REQUIRE ME TO DO?

YOU SHOULD READ AND BECOME FAMILIAR WITH THE PROVISIONS OF THIS PERMIT. BELOW IS A LIST OF THE MAJOR REQUIREMENTS, WITH INDICATIONS WHERE THOSE DIFFER FROM THE PREVIOUS CONSTRUCTION GENERAL PERMIT.

EROSION AND SEDIMENT CONTROL PAN

YOU MUST IMPLEMENT THE EROSION AND SEDIMENTATION CONTROL PAN APPROVED FOR YOUR PROJECT BY THE DIVISION OF LAND RESOURCES OR BY AN APPROVED LOCAL PROGRAM. ADHERENCE TO THAT E&SC PLAN IS AND ENFORCEABLE COMPONENT OF THE STORM WATER PERMIT.

YOUR E&SC PLAN WILL IDENTIFY AREAS WHERE THE MORE STRINGENT 7 AND 14 DAY GROUND STABILIZATION REQUIREMENTS APPLY. SEE "NEW GROUND STABILIZATION REQUIREMENTS" ON PAGE 2.

MONITORING AND INSPECTIONS

- YOU MUST KEEP A RAIN GAUGE ON SITE.
- DEDICATED DEMOLITION AND OTHER WASTE AREAS AND EARTHEN MATERIAL STOCKPILES MUST BE LOCATED AT LEAST 50' FROM STORM DRAINS OR STREAMS UNLESS NO ALTERNATIVE IS FEASIBLE (NEW REQUIREMENT).
- YOU MUST INSPECT ALL E&SC MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN A HALF INCH (DURING A 24–HOUR PERIOD). YOU MUST TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
- YOU MUST INSPECT ALL OUTLETS WHERE STORM WATER RUNOFF LEAVES YOUR SITE AND EVALUATE THE EFFECT ON NEARBY STREAMS OR WETLANDS, OR CAUSES A VISIBLE INCREASE IN TURBIDITY (CLOUDINESS) OF ANY WATER BODY.
- YOU MUST KEEP RECORDS OF THESE INSPECTIONS AND ANY CORRECTIVE ACTIONS TAKEN.

OPERATION & MAINTENANCE

YOU MUST PROVIDE THE OPERATION AND MAINTENANCE NECESSARY TO MAINTAIN OPTIMAL PERFORMANCE OF STORM WATER CONTROLS. THIS MEANS TAKE CORRECTIVE ACTION IF EROSION AND SEDIMENT CONTROL FACILITIES ARE NOT OPERATING PROPERLY! OPERATION AND MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO:

- REGULARLY CLEANING OUT SEDIMENTATION BASINS.
- STABILIZING ERODED BANKS OR SPILLWAY STRUCTURES.
- REPAIRING/CLEARING OUT INLETS AND OUTLETS.
- REPAIRING PIPING, SEEPAGE AND MECHANICAL DAMAGE.
- REPAIRING SILT FENCE DAMAGE.

REPORTING

REGULAR INSPECTIONS ARE A CHANCE TO CHECK IMPACTS TO NEARBY WATERS. IF ANY OBSERVE SEDIMENT THAT HAS DEPOSITED IN A STREAM OR WETLAND, YOU MUST NOTIFY THE DIVISION OF WATER QUALITY REGIONAL OFFICE WITHIN 24 HOURS AND PROVIDE WRITTEN NOTICE WITHIN 5 DAYS (SEE #3 ON PAGE 6 OF THE GENERAL PERMIT). PLEASE SEND A COPY OF THIS CORRESPONDENCE TO THE DIVISION OF LAND RESOURCES (DLR).

NON–COMPLIANCE & FINES

TAKE COMPLIANCE SERIOUSLY! PROJECTS THAT VIOLATE STORM WATER PERMIT CONDITIONS AND/OR HAVE UNAUTHORIZED WATER QUALITY IMPACTS ARE SUBJECT TO FINES. CIVIL PENALTIES OF UP TO $25,000.00 PER DAY FOR EACH VIOLATION MAY BE ASSESSED.

THERE ARE NO WETLANDS ON THIS SITE.

CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF APPLICABLE.

RIP THE ENTIRE AREA TO 6 INCHES DEPTH.

REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.

APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.

CONTINUE TILLAGE UNTIL A WELL–PULVERIZED, FIRM. REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.

SEED ON FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.

MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.

INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISHED FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

NOTE:
CONTRACTOR SHALL PROVIDE A PERMANENT SEED COVER ON ALL AREAS DISTURBED DURING CONSTRUCTION OPERATIONS, INCLUDING ANY DISTURBANCE TO THOSE AREAS THAT WERE SEEDED DURING PREVIOUS WORK.

EROSION CONTROL

INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE PER DETAIL.

INSTALL SILT FENCE AS NECESSARY PER DETAIL

INSTALL TREE PROTECTION PER DETAIL. DURING CONSTRUCTION CONTRACTOR SHALL TAKE CARE TO LIMIT DAMAGE TO ADJACENT TREES. EXISTING TREES TO REMAIN UNLESS UNABLE TO SAVE DUE TO SITE GRADING.

1.) STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE. ALL GRADED SLOPES MUST BE SEEDED AND MULCHED WITHIN 21 DAYS OF COMPLETION OF GRADING. STABILIZE AREAS OTHER THAN SLOPES WITHIN 30 WORKING DAYS OR 120 CALENDAR DAYS, WHICHEVER IS SHORTER.

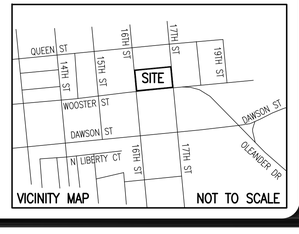
2.) ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED TO BY CONTRACTOR AND OWNER.

3.) IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 WORKING DAYS, ALL DISTURBED AREAS MUST BE SEEDED, MULCHED AND TACKED.

4.) AFTER EVERY RAINFALL EVENT, CONTRACTOR SHALL INSPECT AND REPAIR, AS NECESSARY, ALL DAMAGED EROSION CONTROL MEASURES.

NEW STABILIZATION TIMEFRAMES

Site Area Description	Stabilization	Timeframe Exceptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.



Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

EROSION CONTROL AND GRADING PLAN

FAMILY DOLLAR STORE
709 S. 16TH STREET
WILMINGTON, NC

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20212 MARIE UMPHLETT PEEDIN

3/27/14

PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P–0530

PAMLICO ENGINEERING SERVICES
128 Abbey Lane
Washington, NC 27889
252-945-2983
mpeedin@pamlicoengineringservices.com

REVISIONS

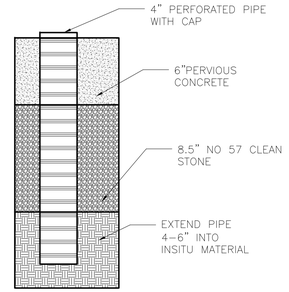
Date	Description
3/27/14	REVISIONS PER NEW HANOVER CO.

File No. 14001

Scale: 1" = 20'

Sheet No.

C-004



4 MONITORING WELL DETAIL
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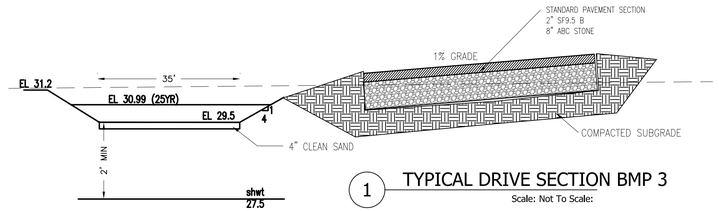
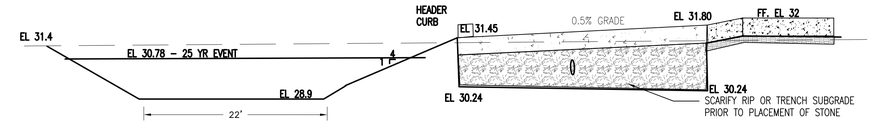
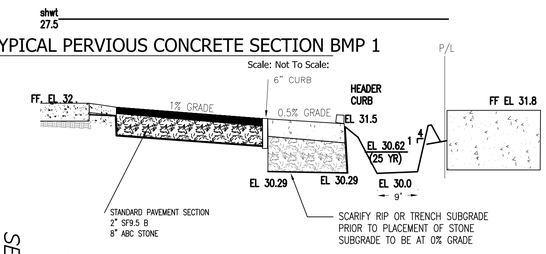


1 TYPICAL DRIVE SECTION BMP 3
Scale: Not To Scale:



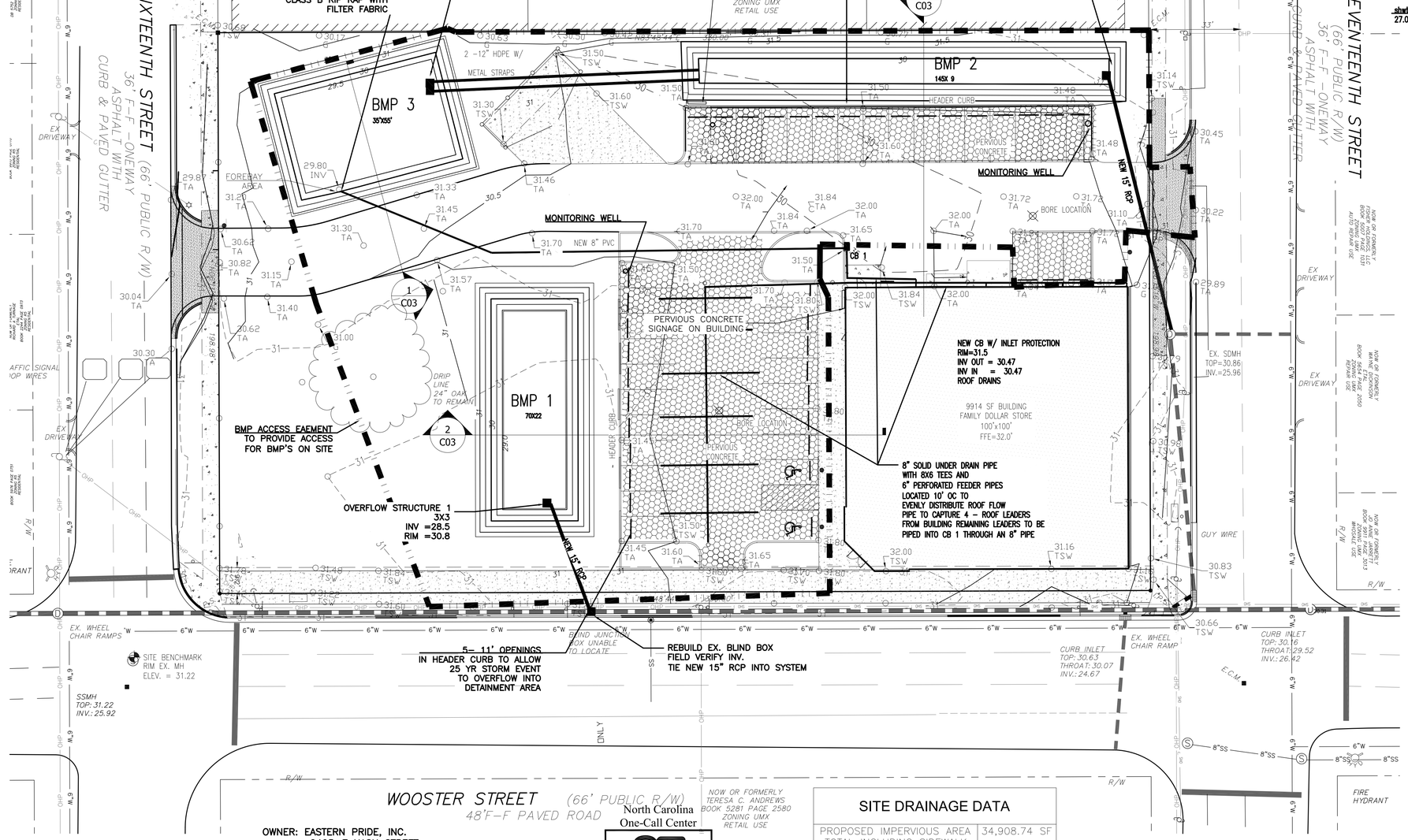
STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____
PERMIT # _____
SIGNED _____

APPROVED CONSTRUCTION PLAN
NAME_____ DATE_____
PLANNING_____
TRAFFIC_____
FIRE_____



2 TYPICAL PERVIOUS CONCRETE SECTION BMP 1
Scale: Not To Scale:

3 TYPICAL PERVIOUS CONCRETE SECTION BMP 2
Scale: Not To Scale:



1 STORMWATER PLAN
SCALE: 1" =20'

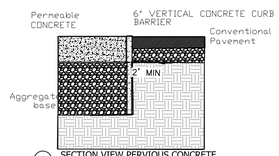
20 0 10 20 40
GRAPHIC SCALE: 1" = 20'

OWNER: EASTERN PRIDE, INC.
2405–F NASH STREET
WILSON, NC 27804

GENERAL CONTRACTOR – STOCKS AND TAYLOR CONSTRUCTION, INC
WASHINGTON, NC

North Carolina One-Call Center
811
Know what's below. Call before you dig.

SITE DRAINAGE DATA	
PROPOSED IMPERVIOUS AREA TOTAL INCLUDING SIDEWALK ONSITE ALONG WOOSTER ST.	34,908.74 SF
TOTAL DRAINAGE AREA	65775.60 SF
PROPOSED PERVIOUS PAVEMENT AREA	10,631 SF



5 SECTION VIEW PERVIOUS CONCRETE
Scale: Not To Scale

Handling pavement transitions PLACE concrete curb that extends below the permeable base should be provided to protect the subgrade under the conventional asphalt. The concrete curb will provide a larger separation between the pavement courses, which will be helpful when the conventional asphalt is resurfaced. An alternative design option uses a concrete curb to protect the asphalt and then an impermeable liner to separate the bases under the asphalt and permeable pavement.

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED
CONTOURS ARE SHOWN IN 0.5' INCREMENTS

NO WETLANDS ON THIS PROPERTY.

ALL AREAS UNDER THE PERVIOUS CONCRETE SHALL BE PREPARED FOR INFILTRATION BY FOLLOWING THIS PROCEDURE:

AFTER VERIFYING THE SUBGRADE SLOPE, SCARIFY, RIP OR TRENCH THE SOIL SUBGRADE SURFACE OF INFILTRATING PAVEMENT SYSTEMS TO MAINTAIN THE SOIL'S PREDISTURBANCE INFILTRATION RATE. THESE TREATMENTS MUST OCCUR WHILE THE SOIL IS DRY. TO SCARIFY THE PAVEMENT, USE BACKHOE BUCKET'S TEETH TO RAKE THE SURFACE OF THE SUBGRADE. TO RIP THE SUBGRADE, USE A SUBSOIL RIPPER TO MAKE PARALLEL RIPS 6 TO 9 IN. DEEP SPACED 3 FT APART ALONG THE LENGTH OF THE PERMEABLE PAVEMENT EXCAVATION AS SHOWN IN FIGURE 18-16. IN SILTY OR CLAYEY SOILS, CLEAN COARSE SAND MUST BE PLACED OVER THE RIPPED SURFACE TO KEEP IT FREE-FLOWING (BROWN AND HUNT 2009). THE SAND LAYER SHOULD BE ADEQUATE TO FILL THE RIPS.

CONDUCT A DIRECT MEASUREMENT OF THE SOIL'S INFILTRATION RATE IMMEDIATELY AFTER EXCAVATION AND BEFORE THE AGGREGATE IS PLACED. INFILTRATION RATE TESTING SHALL BE CONDUCTED BY AN APPROPRIATELY-QUALIFIED PROFESSIONAL. THE RESULTS OF THE TESTING SHALL BE GIVEN TO THE DESIGNER OF RECORD FOR REVIEW.

At intersections between permeable concrete and conventional concrete, a geomembrane barrier should be provided to contain the stormwater under the permeable pavement and protect the base and subgrade under the conventional concrete. There should be a joint between the pavement surfaces for maintenance purposes.

PERMEABLE PAVEMENT

ACTIVITIES PROHIBITED:
SANDING
RE-SEALING
RE-SURFACING
POWER WASHING
STORAGE OF MULCH OR SOIL
STORAGE OF SNOW PILES
STORAGE OF HEAVY LOADS
APPLICATION OF SALT OR DE-ICERS

6 TYPICAL SIGNAGE
Scale: Not To Scale:

Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

STORM WATER CONTROL PLAN

FAMILY DOLLAR STORE
709 S. 16TH STREET
WILMINGTON, NC

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20212 MARIE UMPHLETT PEEDIN

PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P–0530

Pamlico Engineering Services
PAMLICO ENGINEERING SERVICES
128 Abbey Lane
Washington, NC 27889
252-945-2983
mpeedin@pamlicoengineringservices.com

REVISIONS
Date | Description

File No. 14001
Scale: 1" = 20'
Sheet No.
C-005

1. No plantings over thirty (30) inches in height allowed in vision clearance.
2. Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.
3. Owner is responsible for maintenance to ensure plant material lives and prospers.
4. Planting plans shall be approved by Landscape Designer prior to installation.
5. Landscaping shall be required at the ends of all parking rows.
6. A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.
7. Landscaped islands shall be a minimun width of twelve (12) feet (back of curb to back of curb) and a minimum of two hundred and sixteen (216) square feet.
8. A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.
9. For recommended Plant List see "Landscape" T-10.4.

LANDSCAPE NOTES

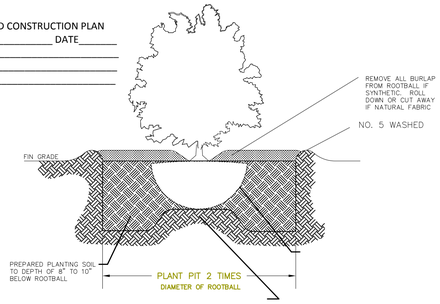
1. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN IN PLAN.
2. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
3. PLANTING BEDS TO BE MULCHED WITH A MINIMUM OF 3" LONGLEAF PINESTRAW. ALL PLANT GROUPINGS SHALL BE MULCHED AS ON BED.
4. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
5. APPLY PRE-EMERGANT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
6. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS(i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.)
7. ALL LANDSCAPING IS SUBJECT TO THE CITY ZONING ORDINANCE AND ANY MODIFICATIONS MADE SHALL MEET ALL REQUIREMENTS SET FORTH BY THE ZONDING CODE.

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____
PERMIT # _____
SIGNED _____

APPROVED CONSTRUCTION PLAN
NAME_____ DATE_____
PLANNING_____
TRAFFIC _____
FIRE_____

LANDSCAPE LEGEND

KEY	QTY RQD	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	CATEGORY	TYPE
RB	7	Betula nigra	River BIRCH	8'/2" cal.	TREES(LARGE)	DECIDUOUS
CM	21	LAGERSTOEMIA	CREPE MYRTEL	8'/2" cal.	SMALL TREE	DECIDUOUS
RM	23	ACER RUBRUM	RED MAPLE	8'/2" cal.	TREES(LARGE)	DECIDUOUS
DY	65	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	18"/3 gal.	SHRUB(SMALL)	EVERGREEN
IH	104	Rhaphiolepis indica	Indian Hawthorn	18"/3 gal.	SHRUB(SMALL)	EVERGREEN



SHRUB PLANTING
NOT TO SCALE

(a) All planted and retained living material, required to meet the provisions of this section, shall be perpetually protected and maintained to professionally accepted standards by joint and several responsibility of the owner, occupant, tenant, and respective agents of the property on which the material is located. Maintenance of trees on nonresidential property shall be performed by a professional that has signifiec that they are knowledgeable of both the ANSI standards and the OSHA standards for tree pruning, removal, and safety and that they are insured against potential damages. Any planted material that becomes damaged or diseased or dies, or is improperly maintained shall be replaced by the owner within sixty (60) days of the occurrence of such condition. If in the opinion of the city manager, there are seasonal conditions which will not permit the timely replacement of the vegetation (e.g., too hot or too cod for successful replanting) this requirement may be administratively waived until a time certain such that the replanting would be safe.

(b) In addition to requirements for replacement, any person who is responsible for improper maintenance practices of trees on private or public property shall be subject to a fine of four hundred dollars ($400.00) per tree. The owner of the property shall also be a responsible party if the improper practices are condicted by an employee, agent, or other person under the control or direction of the property owner. Improper maintenance practices for the purpose of this section means any of the following:

(1) Topping a tree (cutting a significant portion of the terminal growth);

(2) Cutting upon a tree that destroys its natural habit and pattern of growth;

(3) Pruning that leaves stubs or results in a flush cut, or splitting of limbs;

(4) Use of climbing spikes, nails or hooks, except for the purpose of total tree removal or as specified by the American National Standards Institute.

(c) Waivers may be made to the issuance of penalties for improper maintenance practices, provided one (1) of the following can be shown:

(1) The improper maintenance is necessary to alleviate a dangerous condition posing an imminent threat to the public or property;

(2) Franchised utilities may obtain a permit from the city, renewable on an annual basis, authorizing the pruning of trees in a manner that may be defined herein as improper provided such pruning is necessary to prevent service interruptions;

(3) Any person may apply to the development services department for an administrative waiver from the terms of this section, provided that:

a. The application is made before any actions for which a waiver is sought have been undertaken;

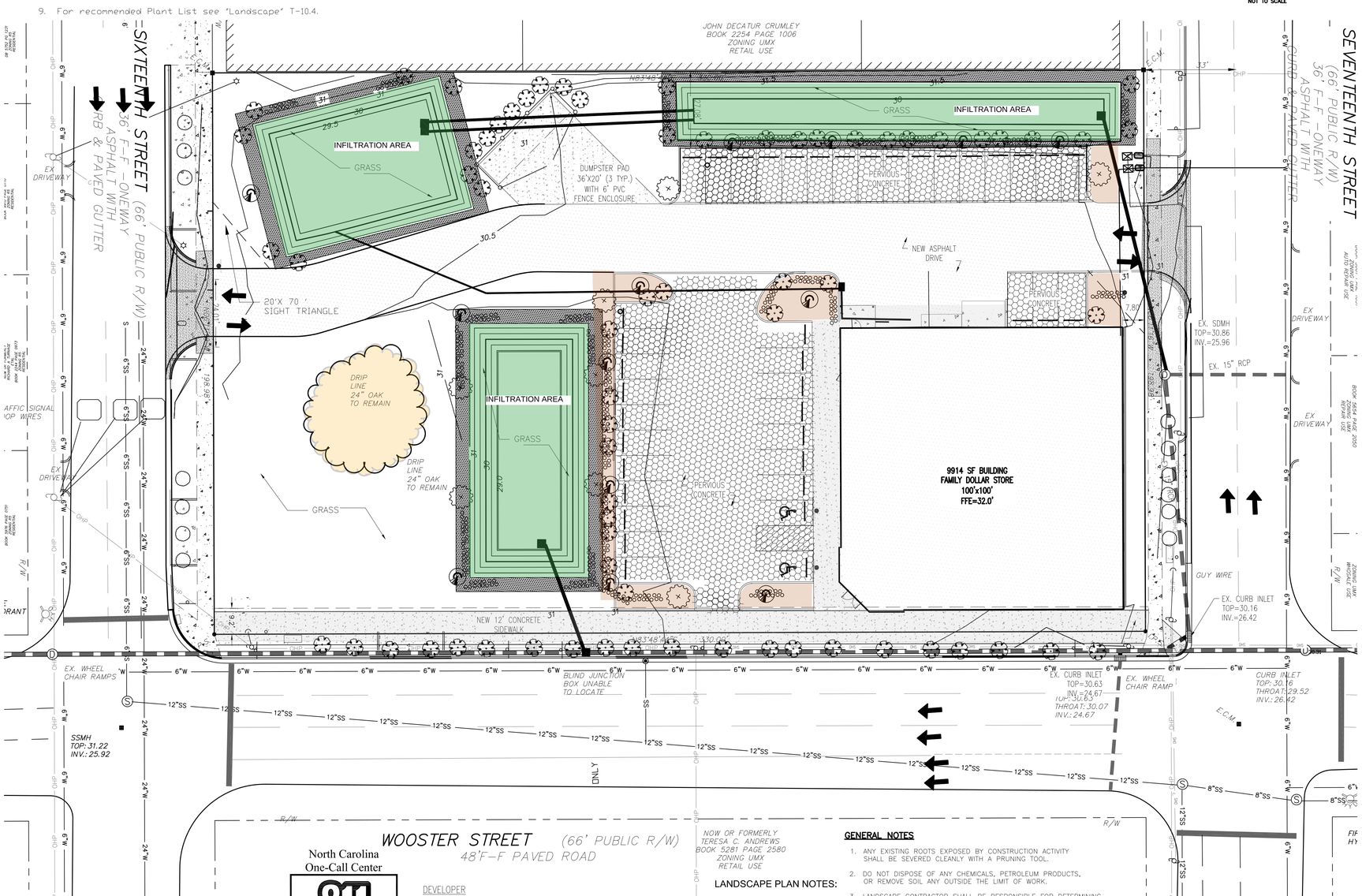
b. There are unique and special circumstances or conditions applying to the subject tree or the property upon which it is located, that do not apply generally to other trees or properties;

c. The waiver proposed is no more than necessary to alleviate the hardship;

d. That the granting of he waiver will be in harmony with the general intent and purposes of this section and will rot create a dangerous condition that threatens the public or property.

(d) Nonliving screening buffers shall be maintained cleaned and repaired by the owner of the property on which the buffer is located. Such buffers shall be kept free of litter and advertising.

(e) Buffers that over a period of time lose their screening functionality shall be replanted to meet the requirements of this ordinance.



1 LANDSCAPE PLAN
SCALE: 1" =20'

GRAPHIC SCALE: 1" = 20'

North Carolina One-Call Center
811
Know what's below. Call before you dig.

DEVELOPER
EASTERN PRIDE, INC.
2405-F NASH STREET
WILSON, NC 27896

GENERAL CONTRACTOR:
STOCKS AND TAYLOR CONSTRUCTION, INC.
1825 CAROLINA AVENUE
WASHINGTON, NC 27889

LANDSCAPE PLAN NOTES:

LANDSCAPE REQUIREMENTS

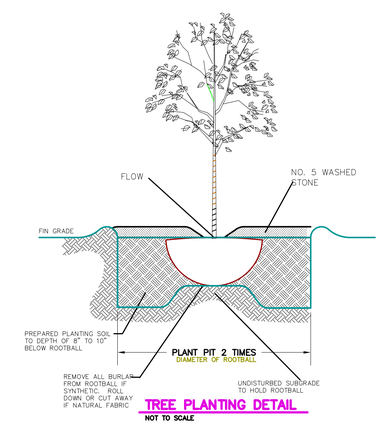
STREET TREES - 1/30LF = 23 TREES IN ROW

PERIMETER LANDSCAPE	
TREE	7 CANOPY TOTAL
UNDER STORY TREE	21
EVERGREEN SHRUBS	

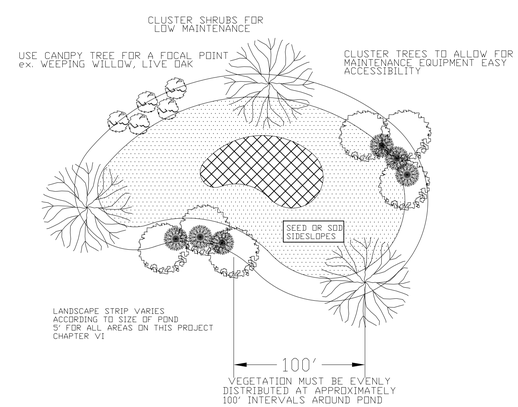
GENERAL NOTES

1. ANY EXISTING ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE SEVERED CLEANLY WITH A PRUNING TOOL.
2. DO NOT DISPOSE OF ANY CHEMICALS, PETROLEUM PRODUCTS, OR REMOVE SOIL ANY OUTSIDE THE LIMIT OF WORK.
3. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO ANY UTILITIES AS A RESULT OF INSTALLING ANY LANDSCAPE MATERIALS.
4. MIN. 10% LANDSCAPE COVERAGE REQUIRED

Note on plan stating that prior to any clearing, grading, or construction activity, tree protection fencing will be installed around protected trees or groves of trees. No construction workers, tools, materials, or vehicles are permitted within the tree protection fencing.



TREE PLANTING DETAIL
NOT TO SCALE



Notes:
1. If possible, locate pond where vegetation exists.
2. Suggest minimal clearing to conserve visual quality of site and minimize the additional of tree planting. An irregular shape provides a more natural appearance.
3. Landscape strip shall be a maximum slope of 7:1 in order to plant vegetation.
4. Provide a minimum of 3 inches of mulch around all vegetation.

GRASS IN INFILTRATION AREA
LANDSCAPE MULCH AREAS
NEW CONCRETE SIDEWALK

Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

LANDSCAPE PLAN

FAMILY DOLLAR STORE
709 S. 16TH STREET
WILMINGTON, NC

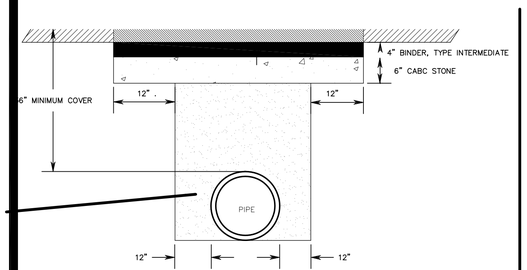
NORTH CAROLINA PROFESSIONAL SEAL 20212 ENGINEER MARIE UMPHLETT PEEDIN

PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P-0530

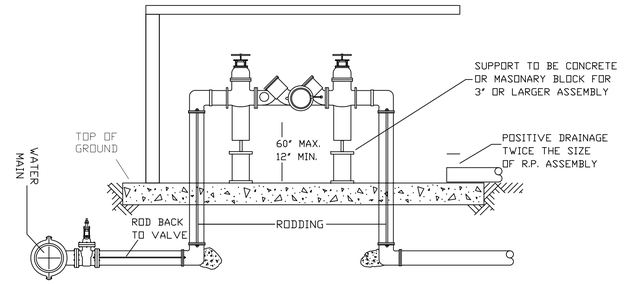
PAMLICO ENGINEERING SERVICES
128 Abbey Lane
Washington, NC 27889
252-945-2983
mpeedin@pamlicoengineringservices.com

REVISIONS	
Date	Description

File No. 14001
Scale: 1" = 20'
Sheet No.
C-006

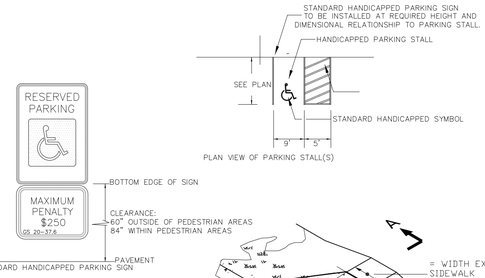


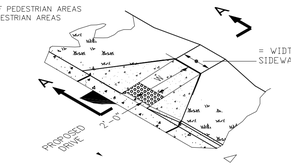
PAVEMENT REPAIR
NTS



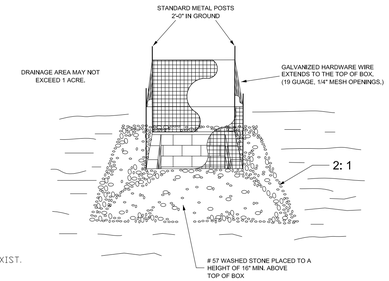
1. ALL ABOVE GROUND ENCLOSURES MUST HAVE ADEQUATE DRAINAGE (TWICE THE DIAMETER OF THE R.P. ASSEMBLY OR EQUIVALENT).
2. REDUCED PRESSURE BACKFLOW PRESENTERS MAY BE LOCATED IN A BUILDING PROVIDED THERE ARE NO OTHER UNPROTECTED TAPS BETWEEN THE MAIN AND THE BUILDING.
3. ABOVE GROUND INSULATED VAULTS MUST BE ASSE 1060 APPROVED ABOVE GROUND ENCLOSURES.
4. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.

RPZ
NOT TO SCALE

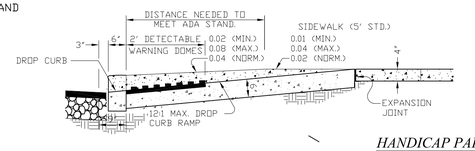




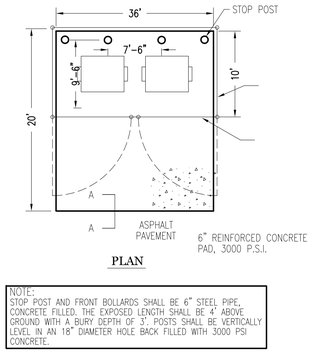
ISOMETRIC VIEW



STANDARD CATCH BASIN / YARD INLET PROTECTION

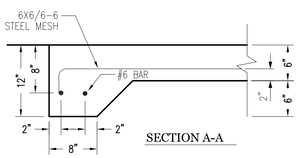


HANDICAP PARKING AND SIDEWALK DETAIL
NTS



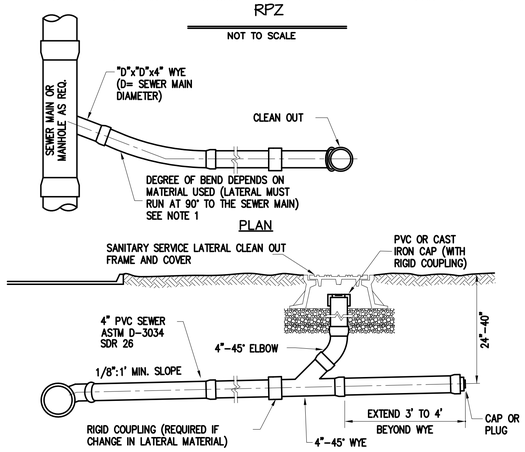
PLAN

NOTE:
STOP POST AND FRONT BOLLARDS SHALL BE 6" STEEL PIPE, CONCRETE FILLED. THE EXPOSED LENGTH SHALL BE 4' ABOVE GROUND WITH A BURY DEPTH OF 3'. POSTS SHALL BE VERTICALLY LEVEL IN AN 18" DIAMETER HOLE BACK FILLED WITH 3000 PSI CONCRETE.



SECTION A-A

DUMPSTER PAD DETAIL
Scale: Not To Scale



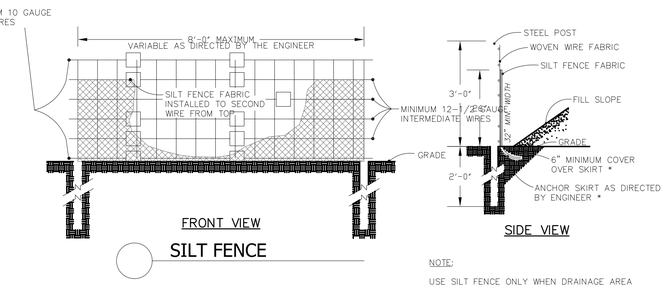
NOTES:

1. LATERAL PIPE SHALL BE PVC, ASTM D-3034, SDR 26, UNLESS DUE TO SPECIAL CIRCUMSTANCES THE LOCALITY REQUIRES THE PIPE TO BE DUCTILE IRON.
2. SEE PLANS FOR LOCATION OF CLEAN OUT.

SANITARY SEWER SERVICE CONNECTION
NOT TO SCALE

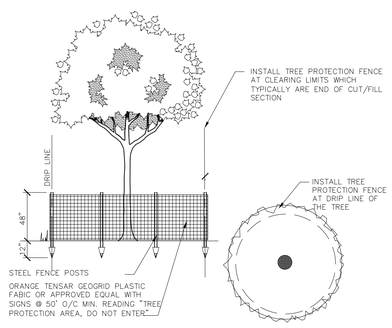
STORMWATER MANAGEMENT
PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____
PERMIT # _____
SIGNED _____

APPROVED CONSTRUCTION PLAN
NAME_____ DATE_____
PLANNING_____
TRAFFIC_____
FIRE_____

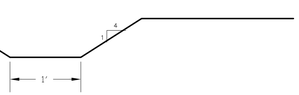


SILT FENCE

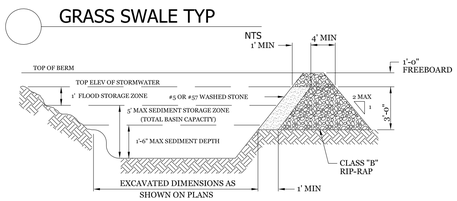
NOTE:
USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.



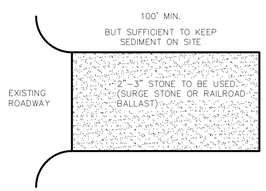
TREE PROTECTION DURING CONSTRUCTION
NOT TO SCALE
TP



GRASS SWALE TYP



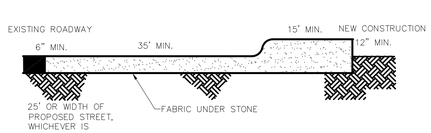
SECTION THRU BASIN & FILTER



PLAN VIEW

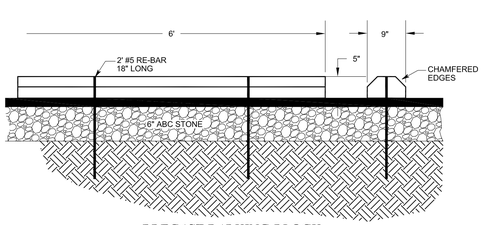
NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.

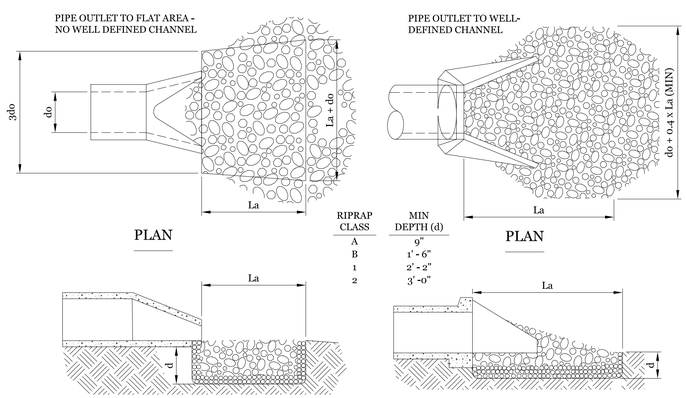


CROSS SECTION

STANDARD CONSTRUCTION ENTRANCE
Scale: Not To Scale:



PRECAST PARKING BLOCK
NTS

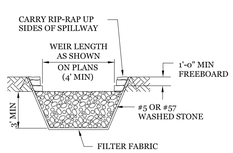


RIPRAP CLASS	MIN DEPTH (d)
A	9"
B	1' - 6"
1	2' - 2"
2	3' -0"

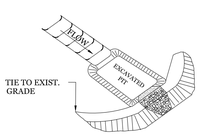
NOTES:

1. La IS THE LENGTH OF THE RIP-RAP APRON.
2. do IS THE NOMINAL SIZE OF THE OUTLET PIPE.
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS. WIDEN CHANNEL AS NECESSARY TO ACHIEVE REQUIRED WIDTH AT DISTANCE La FROM OUTLET. RIPRAP ENTIRE DISTURBED PORTION OF THE CHANNEL.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION.

OUTLET PROTECTION DETAIL
Scale: Not To Scale:



SECTION THRU BERM & FILTER



PERSPECTIVE VIEW

TEMPORARY SEDIMENT TRAP
NOT TO SCALE

Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

DETAILS

FAMILY DOLLAR STORE
709 S. 16TH STREET
WILMINGTON, NC

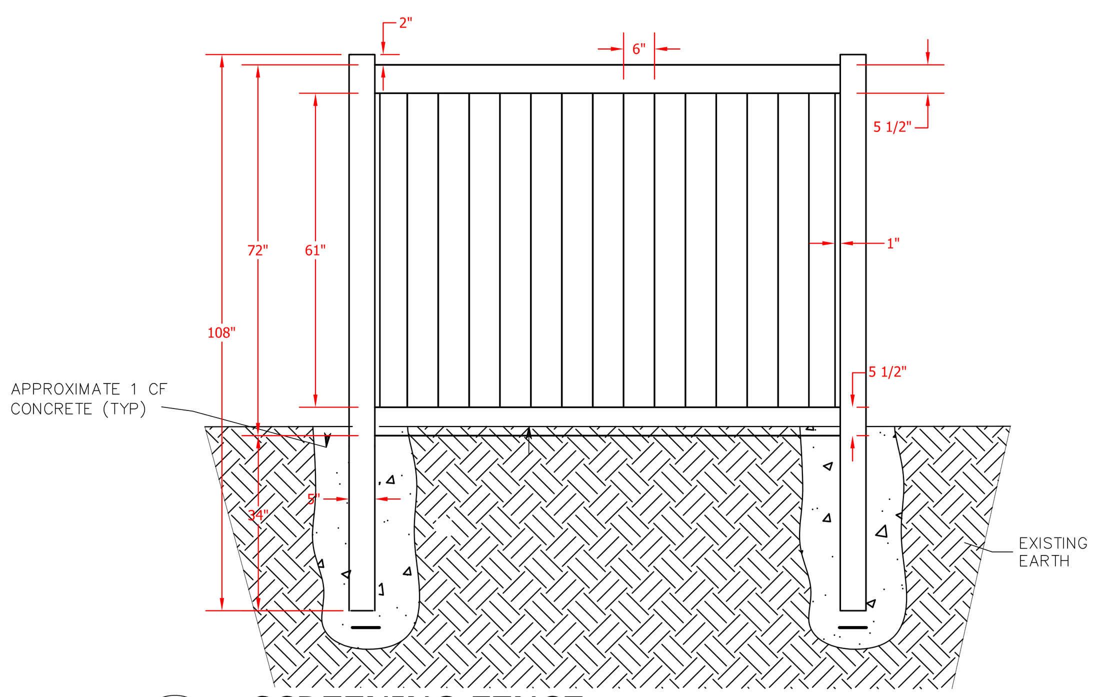
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20212 MARIE UMPHLETT PEEDIN

PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P-0530

PAMLICO ENGINEERING SERVICES
128 Abbey Lane
Washington, NC 27889
252-945-2983
mpeedin@pamlicoengineringservices.com

REVISIONS
Date | Description

File No. 14001
Scale: 1" = 20'
Sheet No.
C-007



SCREENING FENCE

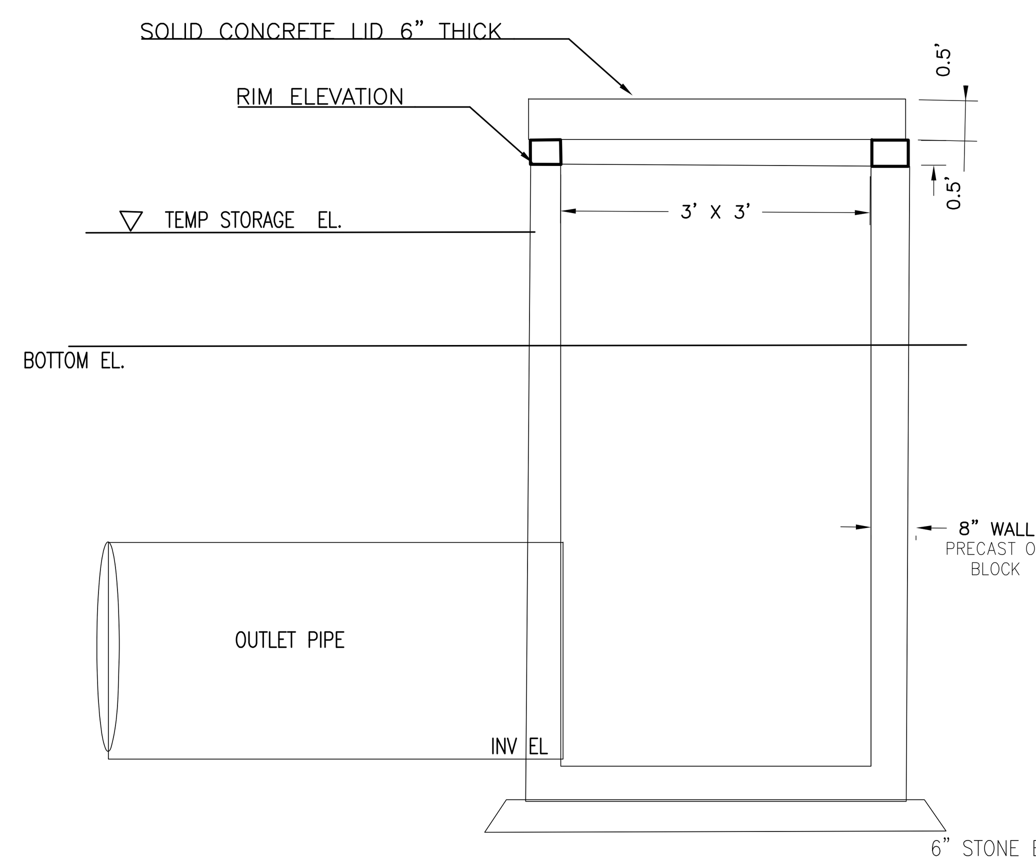
Scale: NTS

1. Variances on stall widths, angle and other dimensions will be allowed only upon approval of the Traffic Engineer.
2. Wheel stops shall be required three (3) feet from the end of parking stall when using eighteen (18) feet deep stalls.
3. Curbing, crossties, utility poles, etc., can be used as wheel stops. (Must be anchored down)
4. All medians shall be a minimum of six (6) feet wide.
5. Parking bays which terminate at a circulation way shall provide for a minimum turning radius of twenty-five (25) feet, as measured from the edge of the travel portion.
6. All parking stall markings and lane arrows shall be white.
7. All other pavement markings, signs or other traffic control devices shall conform to the latest edition and/or interpretation of the Manual on Uniform Traffic Control Devices (MUTCD).
8. No obstructions will be allowed adjacent to a parking stall which would prevent safe ingress and egress from a parked vehicle.
9. Parking in fire lanes and in non-residential driveways shall be prevented by standard signs and as needed by portable barricades.

DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	PARKING FACILITY DESIGN NOTES	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 15-13

OVER FLOW STRUCTURE SCHEDULE

ID	RIM	INV	PIPE SIZE	BOTTOM EL
OFS 1	30.8	28.5	15"	28.9
OFS 2	30.62	26.23	15"	30
OFS 3	31.00	30.00	2 - 12"	29.5



OVER FLOW STRUCTURE

Scale: 1:1

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE ____________
PERMIT # ____________
SIGNED ______________________

APPROVED CONSTRUCTION PLAN
NAME ____________ DATE ________
PLANNING ____________
TRAFFIC ____________
FIRE ____________

Maintenance Plan

1. All erosion and sediment control measures will be checked for stability and operation following every runoff-producing rainfall, but in no case, less than once every week and within 24 hours of every half inch rainfall.
2. All points of egress will have construction entrances that will be periodically top-dressed with an additional 2 inches of #4 stone to maintain proper depth. They will be maintained in a condition to prevent mud or sediment from leaving the site. Immediately remove objectionable material spilled washed or tracked onto the construction entrance or roadways.
3. Sediment will be removed from hardware cloth and gravel inlet protection, block and gravel inlet protection, rock doughnut inlet protection and rock pipe inlet protection when the designed storage capacity has been half filled with sediment. Rock will be cleaned or replaced when the sediment pool no longer drains as designed. Debris will be removed from the rock and hardware cloth to allow proper drainage. Silt sacks will be emptied once a week and after every rain event. Sediment will be removed from around beaver dams, dandy sacks and socks once a week and after every rain event.
4. Diversion ditches will be cleaned out immediately to remove sediment or obstructions from the flow area. The diversion ridges will also be repaired. Swales must be temporarily stabilized within 21 calendar days of cease of any phase of activity associated with a swale.
5. Sediment will be removed from behind the sediment fence when it becomes half filled. The sediment fence will be repaired as necessary to maintain a barrier. Stakes must be steel. Stake spacing will be 6 feet max. with the use of extra strength fabric, without wire backing. Stake spacing will be 8 feet max. when standard strength fabric and wire backing are used. If rock filters are designed at low points in the sediment fence the rock will be repaired or replaced if it becomes half full of sediment, no longer drains as designed or is damaged.
6. Sediment will be removed from sediment traps when the designed storage capacity has been half filled with sediment. The rock will be cleaned or replaced when the sediment pool no longer drains or when the rock is dislodged. Baffles will be repaired or replaced if they collapse, tear, decompose or become ineffective. They will be replaced promptly. Sediment will be removed when deposits reach half the height of the 1st baffle.
7. Sediment will be removed from the sediment basin when the design storage capacity has been half filled with sediment. Rock will be cleaned or replaced when the sediment pool no longer drains or if the rock is dislodged. Baffles will be repaired or replaced if they collapse, tear, decompose or become ineffective. They will be replaced promptly. Sediment will be removed from baffles when deposits reach half the height of the 1st baffle. Floating skimmers will be inspected weekly and will be kept clean.
8. All seeded areas will be fertilized, reseeded as necessary and mulched according to specifications in the vegetative plan to maintain a vigorous, dense vegetative cover. All slopes will be stabilized within 21 calendar days. All other areas will be stabilized within 15 working days.
9. Flocculants will be used to address turbidity issues. The pumps, tanks, hoses and injection systems will be checked for problems or turbid discharges daily.

Owners/Developers Certification

I/We hereby certify that any clearing grading, construction or development or all of these will be done pursuant to this plan and that the applicable stormwater Management conditions and requirements of the City of Wilmington, the State of North Carolina and the Federal Government and its agencies are herby made part of this plan"

Signature ____________

Date 3/28/14

Barnes Boykin, Vice President Eastern Pride, Inc.

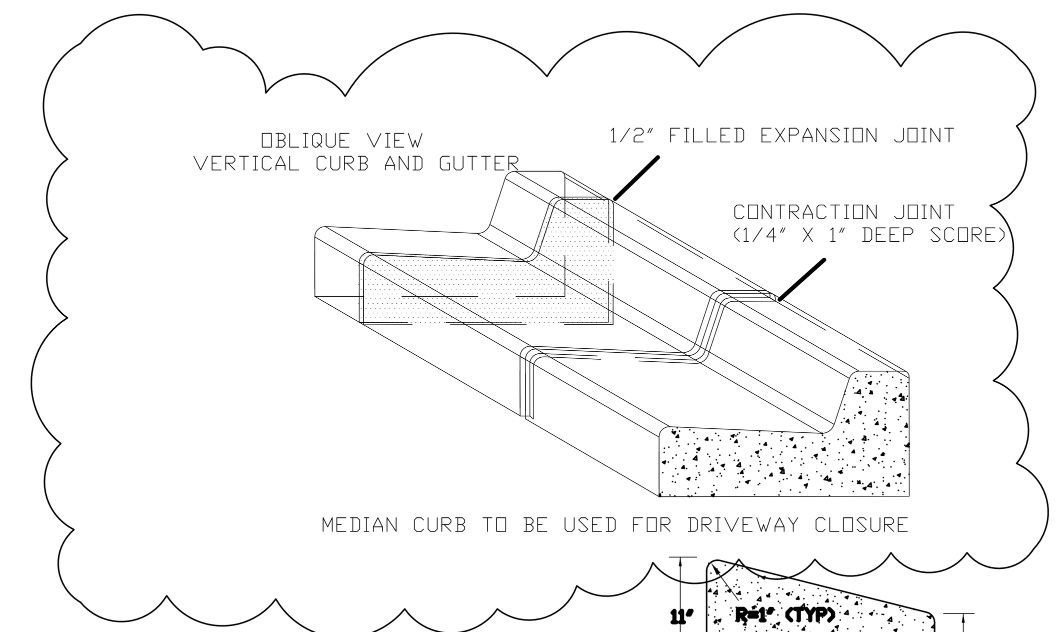
DESIGNER CERTIFICATION

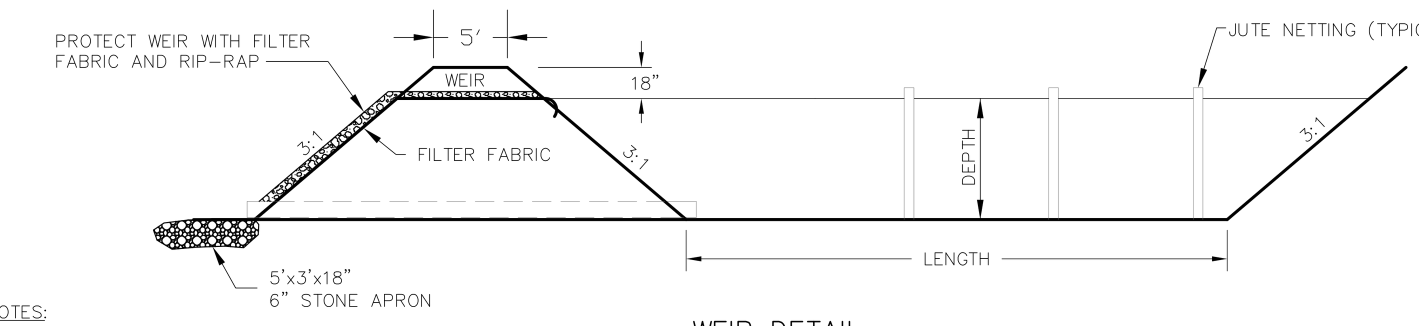
" I hereby certify that this plan has been prepared in accordance with the latest Wilmington Standards and Specifications for Storm Water Management and Chapter 20 of the Code of Ordinance of the City of Wilmington."

Signature ____________

Marie U. Peedin, PE

Date 3/28/14 PE # 20212





WEIR DETAIL

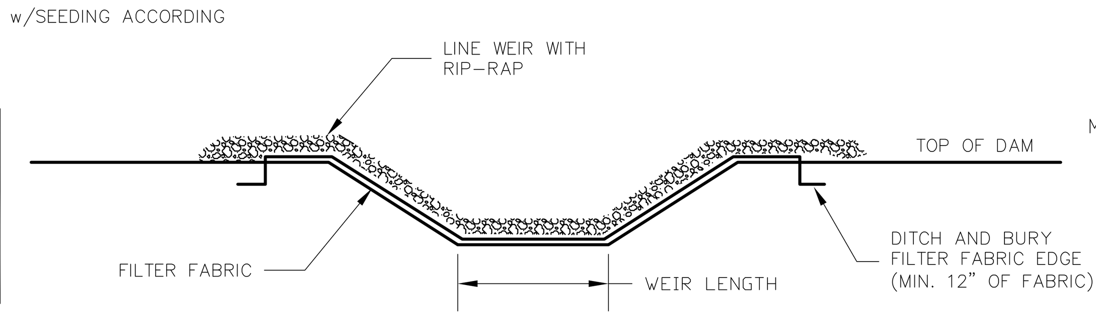
NOTES:

1. USE FOR DRAINAGE AREAS NOT EXCEEDING 5 (FIVE) ACRES.
2. EARTH BERM SHALL BE STABILIZED w/SEEDING ACCORDING TO TOWN SPECIFICATIONS.

DESIGN OF SPILLWAYS

DRAINAGE AREA (ACRES)	WEIR LENGTH[1] (FT)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

[1] DIMENSIONS SHOWN ARE MINIMUM



MAINTENANCE

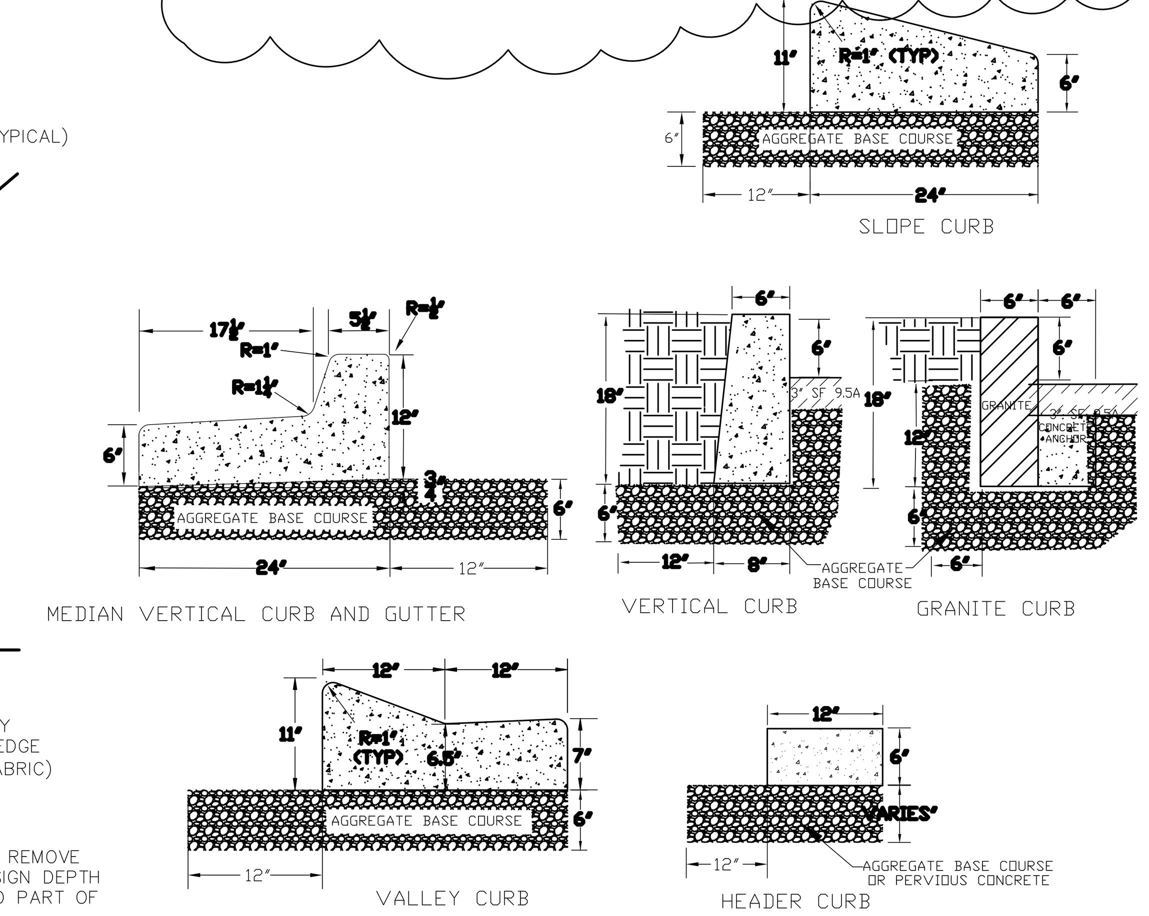
INSPECT TEMPORARY SEDIMENT TRAPS AND EMPTY SKIMMER OF ALL DEBRIS AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION WITH SEEDING.

STANDARD FILTER BASIN

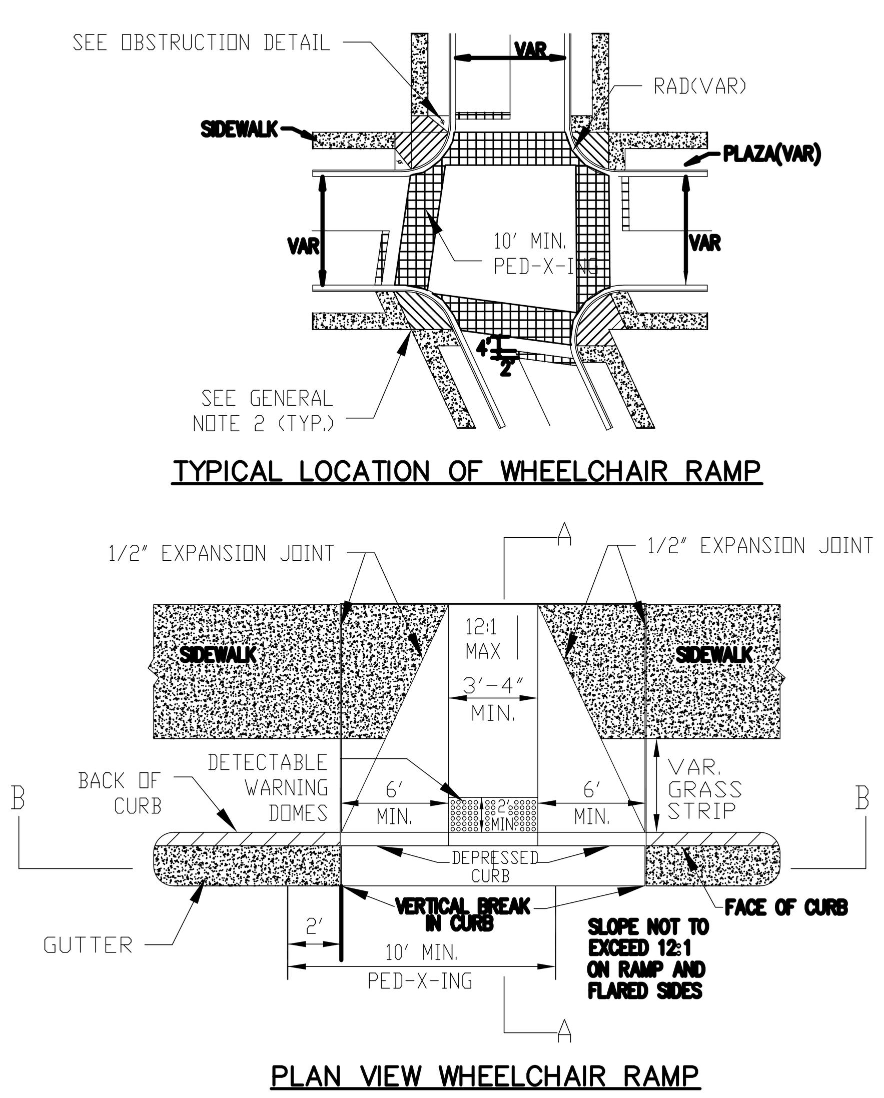
Scale: Not To Scale:



NOTES: 1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS
2. 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING
3. MINIMUM INSTALLATION LENGTH IS 5 FT.
4. CONCRETE TO BE 3000 PSI MIN
5. VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE

CURB AND GUTTER

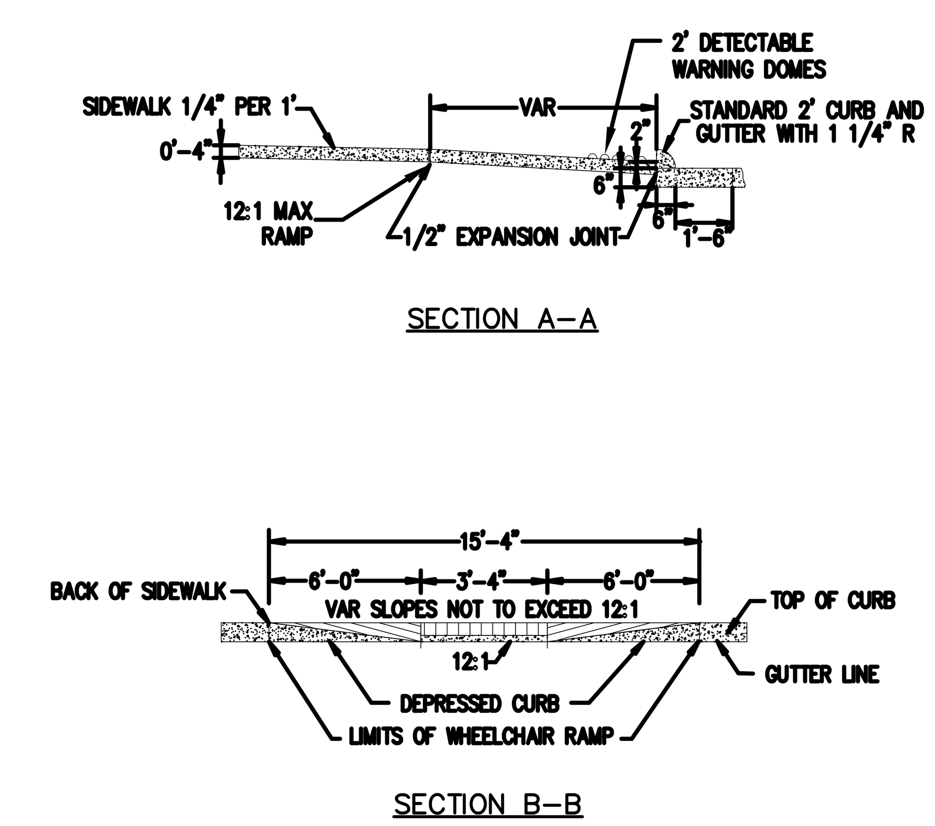
Scale: 1:1



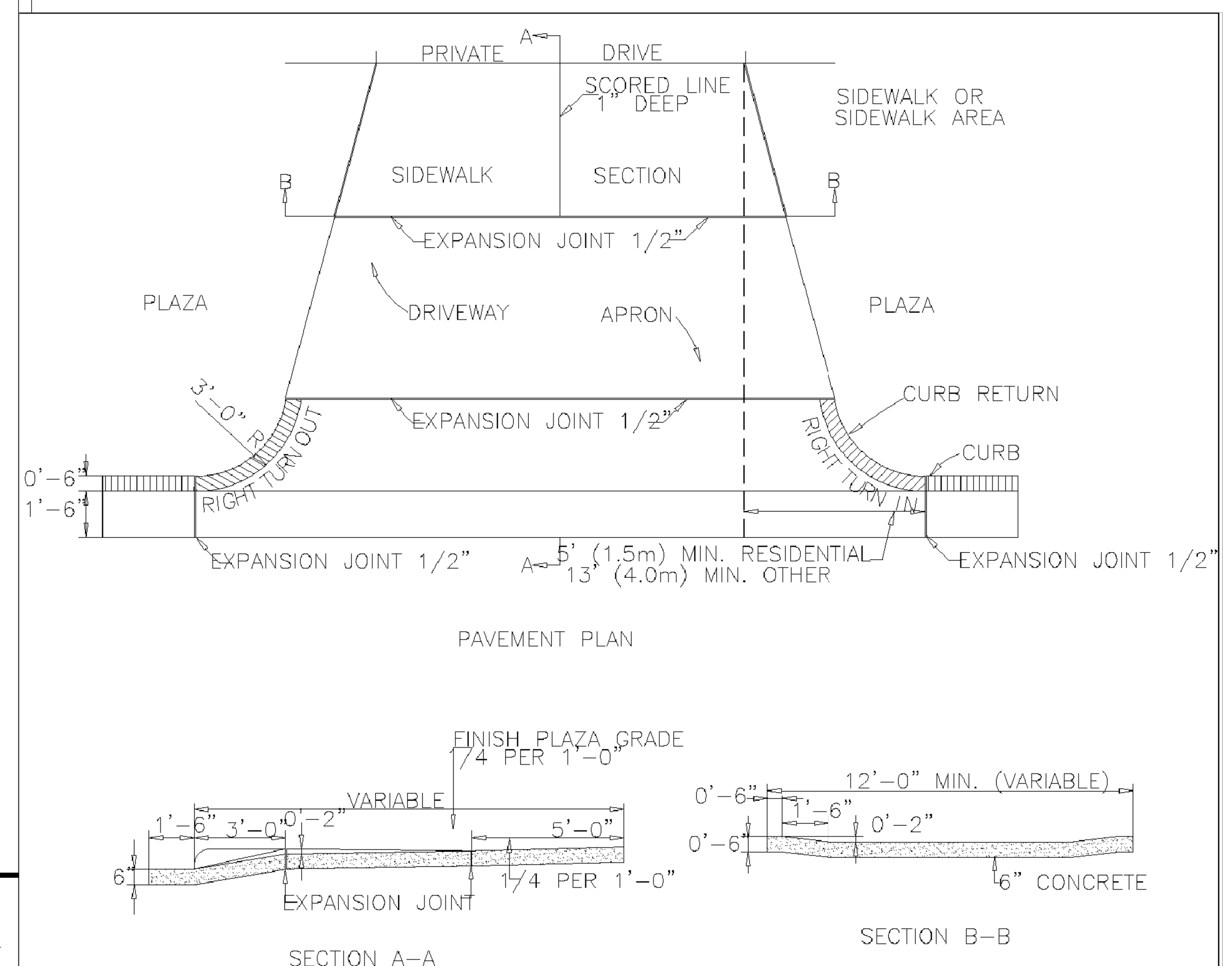
GUIDELINES FOR WHEELCHAIR RAMPS & DEPRESSED CURBS

SD 8-10

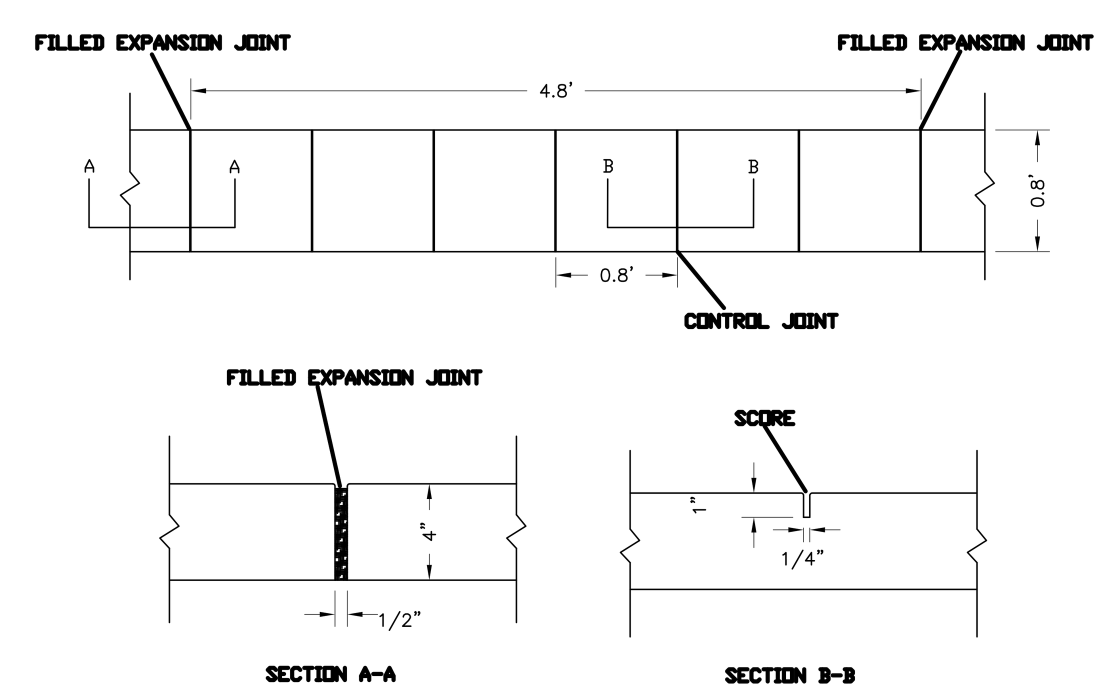
DATE: 2/29/2008	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY J. RHYNE	GUIDELINES FOR WHEELCHAIR RAMPS & DEPRESSED CURBS SHEET 1 OF 2	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON NC. 28402 (910) 341-7807
CHECKED BY AMS, P.E.		
SCALE NOT TO SCALE		SD 8-10



DATE: 2/29/2008	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY J. RHYNE	GUIDELINES FOR WHEELCHAIR RAMPS & DEPRESSED CURBS SHEET 2 OF 2	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON NC. 28402 (910) 341-7807
CHECKED BY AMS, P.E.		
SCALE NOT TO SCALE		SD 8-10



STANDARD DRIVE ENTRANCE



NOTES: 1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
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
6. 4' STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
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.

SIDEWALK

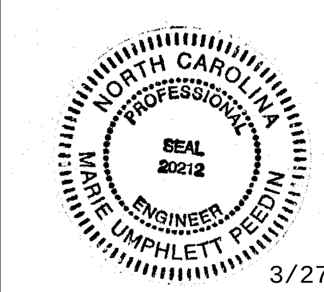
SD 5-10

Designed MUP
Drawn MSP
Checked MUP
Approved MARIE U. PEEDIN

DETAILS

FAMILY DOLLAR STORE

709 S. 16TH STREET
WILMINGTON, NC



3/27/14

PAMLICO ENGINEERING SERVICES, PLLC
LICENSE NO. P-0530

Pamlico Engineering Services

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REVISIONS
Date | Description

File No. 14001
Scale: 1" = 20'
Sheet No.
C-008