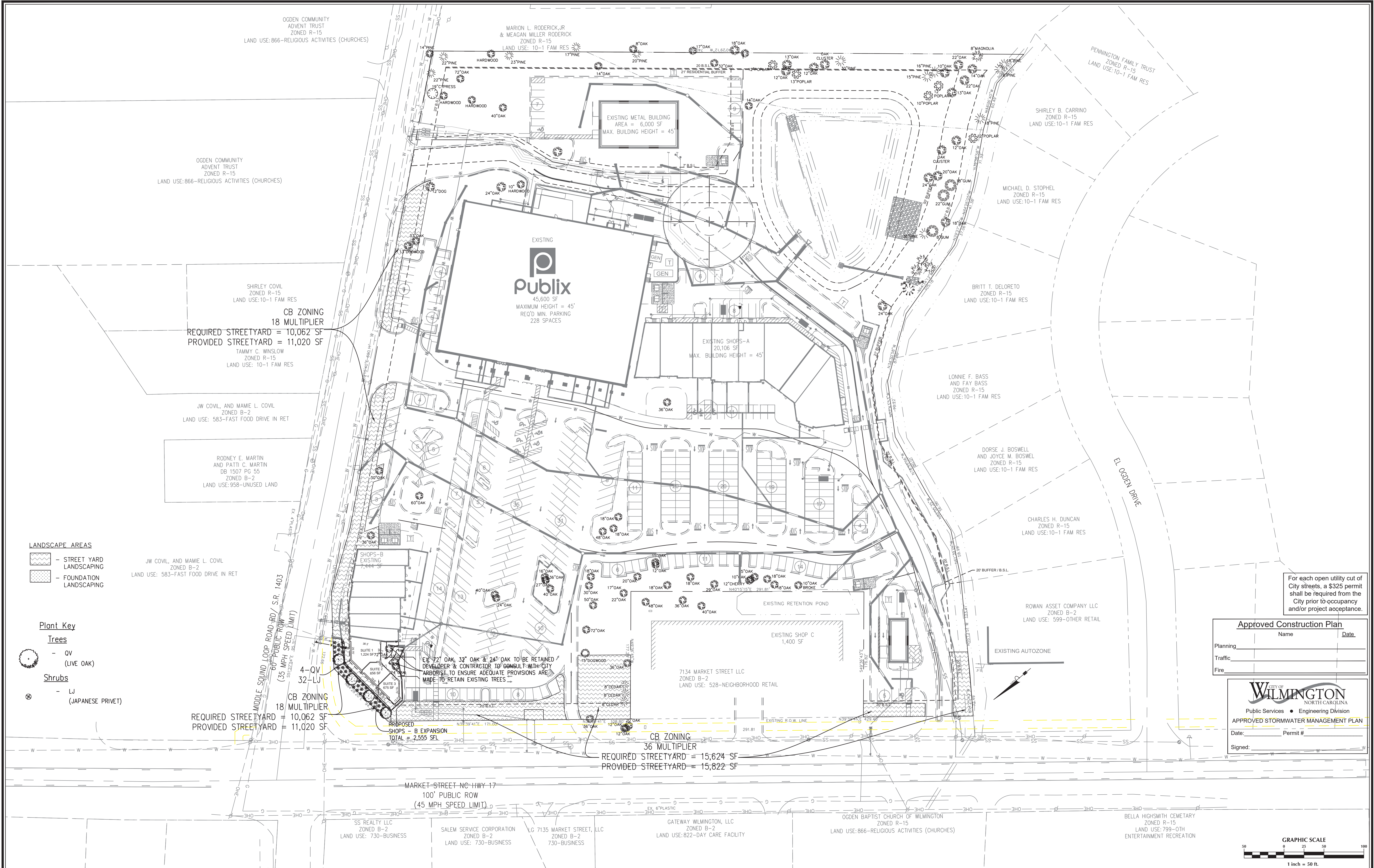




LANDSCAPE AREAS

- STREET YARD LANDSCAPING
- FOUNDATION LANDSCAPING

Plant Key

Trees

- QV (LIVE OAK)

Shrubs

- LJ (JAPANESE PRIVET)

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

Approved Construction Plan		
	Name	Date
Planning		
Traffic		
Fire		

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

No.	Revision	Date	By

Designer	GSP	Scale	1" = 50'
Drawn By	GSP	Date	September 2019
License #	P-0718	Job No.	2016-0012

Wilmington

OGDEN MARKET PLACE EXPANSION

New Hanover County

North Carolina

LANDSCAPE PLAN

PREPARED FOR:
HALPERN ENTERPRISES, INC
5269 BUFORD HIGHWAY
ATLANTA, GEORGIA 30340
404-537-3462

GSP CONSULTING, PLLC

ENGINEERING

6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

PLANT LIST-OR EQUIVALENTS

KEY	NO.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	TYPE (SHRUB, CANOPY TREE OR UNDERSTORY TREE)	PLANTING REMARKS
QV	4	QUERCUS VIRGINIANA	LIVE OAK	8'-10' HL. 2.5" CAL.	CANOPY	SPACING AS SHOWN
LJ	32	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	36"-48"	SHRUB	5' O.C.

O.C. = "ON CENTER" CAL. = "CALIPER AT 6" ABOVE GRADE" GAL. = "GALLON CONTAINER"
MIN. PLANTING SIZE: SHADE TREES=2-2.5" CAL. MULTI-STEM= 8-10' SHRUBS= 12"

Landscape Calculations:

(Note: All regulated & significant trees have been field located and are labeled.)

Streetyard Landscaping:

Market Street Streetyard:

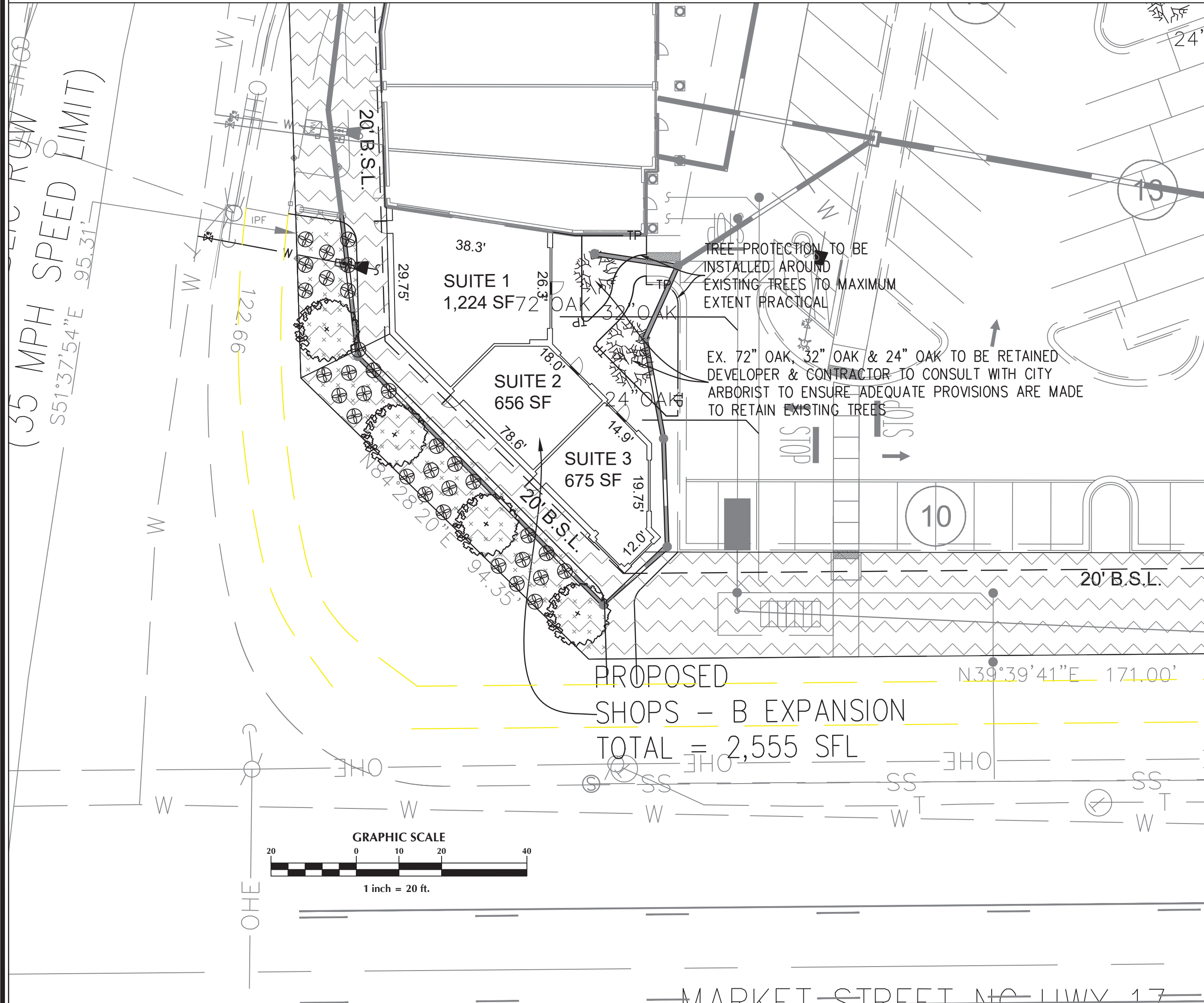
489 l.f. frontage = 55' driveways = 434 l.f.
CB District Factor = 18 x 2 (Large Scale Retail Development) = 36
Required = 434 l.f. X 36 = 15,624 s.f.
Provided = 15,822 s.f.

Middle Sound Loop Road Streetyard:

720 l.f. frontage = 161' driveways = 559 l.f.
CB District Factor = 18
Required = 559 l.f. X 18 = 10,062 s.f.
Provided = 11,020 s.f.

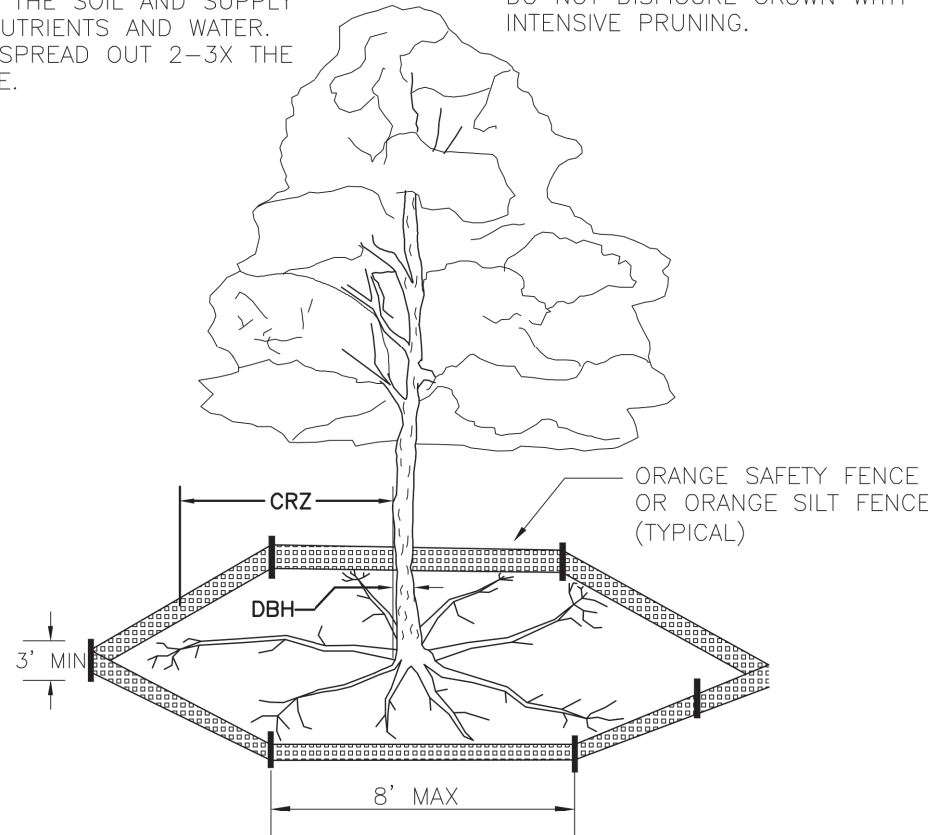
Foundation Plantings:

Foundation Plantings Required @ 100 s.f. area at 50 l.f./ intervals.
108 l.f. / 50 = 2.16 x 100 s.f. = 216 s.f.
Provided 258 s.f.



NOTE:
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY; 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE:
CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

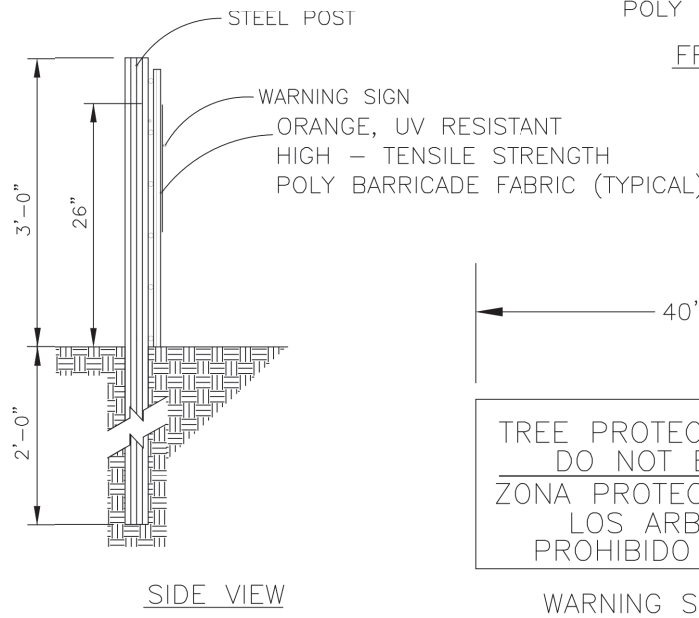
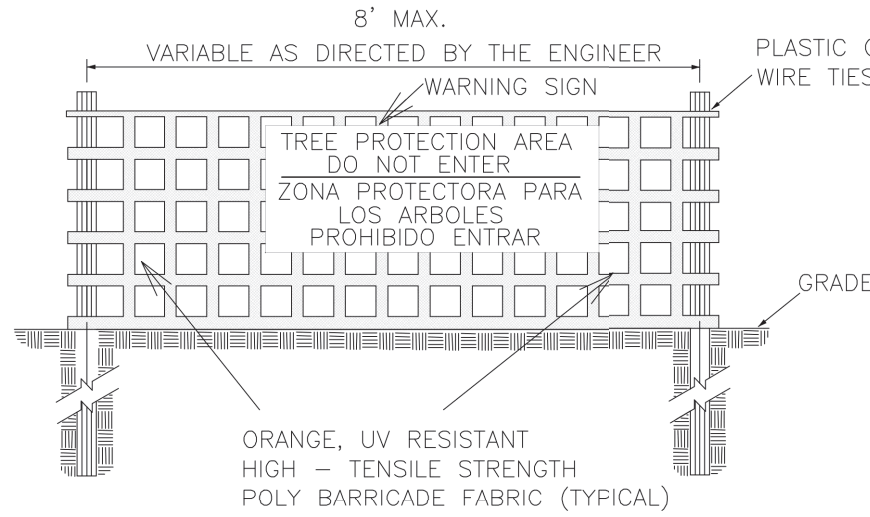


- NOTES:
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
 3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
 5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
 6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

STANDARD DETAIL		 CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 15-09
DATE:	JAN, 2015	
DRAWN BY:	JSR	
CHECKED BY:	RDG, P.E.	
SCALE	NOT TO SCALE	

TREE PROTECTION DURING CONSTRUCTION

SHEET 1 of 2



- NOTES:
1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
 4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
 5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
 6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

STANDARD DETAIL		 CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 15-09
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TREE PROTECTION DURING CONSTRUCTION

SHEET 2 of 2

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Approved Construction Plan

Name	Date
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Traffic	
Fire	



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

No.	Revision	Date	By

Designer	GSP	Scale	1" = 20'
Drawn By	GSP	Date	September 2019
License #	P-0718	Job No.	2016-0012

OGDEN MARKET PLACE EXPANSION		
Wilmington	New Hanover County	North Carolina

LANDSCAPING CALCULATIONS & DETAILS

PREPARED FOR:
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Sheet No.

L-2