## **ATTACHMENT 1 - Previous Submittal**

### TOWN OF BLUFFTON

# STAFF REPORT Department of Growth Management



MEETING DATE:	June 28, 2023
PROJECT:	Refuel 1062 Bluffton: Landscaping, Lighting and Architecture Certificate of Appropriateness Highway Corridor Overlay
PROJECT MANAGER:	Katie Peterson, AICP Senior Planner

<u>APPLICATION REQUEST:</u> The Applicant, Narciso Lira of Odyssey Services Group, on behalf of the owner, Ian Bowers of Refuel Operating Company, LLC, requests that the Planning Commission approve the following application:

1. **COFA-04-23-017905.** A Certificate of Appropriateness to permit the landscape, lighting and architecture for Refuel convenience store and gas station, located along SC Highway 46 across from the May River Xing intersection. It is zoned PUD within the New Riverside PUD and New Riverside Village Master Plan.

INTRODUCTION: The conceptual plan for the New Riverside PUD was approved by Bluffton Town Council in June of 2004. The Concept Plan and Development Agreement define the allowed land uses in the various areas of the New Riverside Planning Area. The documents also define the development standards, which govern all development activity within the Concept Plan, including Parcels 4B-2 and 4B-3, which are the subject of this application. These negotiated land uses, and development standards are binding upon the Town and this Applicant.

The New Riverside Village Master Plan was approved with conditions in February 2020 by the Town of Bluffton Council. A Preliminary Development Plan for Refuel (DP-02-22-016354) was approved with conditions by the Planning Commission at the July 27, 2022 meeting. A Final Development Plan was heard at the May 10, 2023 Development Review Committee meeting where comments were provided to the Applicant (Attachment 5). Staff is working with the Applicant to review revised drawings and ensure all conditions have been met.

The Applicant has requested the approval of a Certificate of Appropriateness – Highway Corridor Overlay application which is subject to review by the Planning Commission providing authority over the architectural, landscaping, and lighting design only.

June 28, 2023 Page 2 of 5



<u>PLANNING COMMISSION ACTIONS:</u> As granted by the powers and duties set forth in Section 2.2.6.C.6. of the Unified Development Ordinance, the Planning Commission has the authority to take the following actions with respect to this application:

- 1. Approve the application as submitted by the Applicant;
- 2. Approve the application with conditions; or
- 3. Deny the application as submitted by the Applicant.

**REVIEW CRITERIA & ANALYSIS:** Town Staff and the Planning Commission are required to consider the criteria set forth in Section 3.17.3 of the Unified Development Ordinance in assessing an application for a Certificate of Appropriateness- HCO. These criteria are provided below followed by a Staff Finding based upon review of the application submittals to date.

- 1. <u>Section 3.17.3.A.</u> The proposed development must be in conformance with applicable landscaping, lighting, and architectural provisions provided in Article 5, Design Standards.
  - a) Finding. The project is located in the New Riverside PUD and is part of the New Riverside Village Master Plan. There are specific design standards established by the PUD via the Beaufort County 1990/3 Zoning and Highway Corridor Overlay District (HCOD) within of the Town of Bluffton Zoning and Development Standards Ordinance (BZDSO), approved September 1999, modified June 2000, (Attachment 6) which are attached to the PUD through Appendix 1.3 of the Concept Plan. In addition to these standards, as a result of the adoption the Town of Bluffton's Stormwater Design Manual (SWDM) in September of 2021, the landscaping design criteria of Article 5 of the current Unified Development Ordinance are applicable to review of this application.

June 28, 2023 Page 3 of 5

2. <u>Section 3.17.3.B.</u> The proposed development shall be in conformance with any approved Development Agreement, PUD Concept Plan, PUD Master Plan, Subdivision Plan, or any other agreements or plans that are applicable.

The property is in the New Riverside PUD and is identified on the New Riverside Village Master Plan as a General Store. As a result, the property is subject to the Beaufort County 1990/3 Zoning and Highway Corridor Overlay District (HCOD) within of the Town of Bluffton Zoning and Development Standards Ordinance (BZDSO)Zoning and Development Standards Ordinance and Design Guidelines contain architectural, landscaping, and lighting design standards for properties located in the Highway Corridor Overlay District (HCOD).

### A. New Riverside PUD/PUD CONCEPT PLAN

The New Riverside PUD refers to the Beaufort County 1990/3 Zoning and Development Standards Ordinance (ZDSO) and The Town of Bluffton Zoning and Development Standards Ordinance (BZDSO) Highway Corridor Overlay District (HCOD) for development standards.

### Landscape

- 1) Finding Foundation Buffer. Per Section 5.15.8.D.(2) of the BZDSO, a landscaped buffer of at least eight (8) feet wide shall be maintained between any structure and any parking or driving areas, except for loading areas and areas where drive-through facilities are utilized. This space is to be reserved for plant material, either existing or planted. No such space is required at the rear of the building but is encouraged. Sidewalks and handicap ramps may be placed adjacent to the buffer on either side. The buffer may be penetrated to provide access to the buildings and is not required in loading areas. As proposed, the east side of the Refuel building does not meet this minimum requirement. The Landscape Plan must be updated to include additional plantings to create an eight (8) foundation buffer along the east side.
- 2) Finding Landscaped Peninsula. Per Section 5.15.8.D.(5) of the BZDSO Each Landscaped Peninsula shall contain one (1) broad-leaf overstory tree with a minimum size of two and one half (2 ½") caliper inches dbh and a minimum height of ten (10") feet. The Washington Hawthorns used as Landscaped Peninsula trees are proposed at 1 ½" caliper dbh and must be increased.

#### **Architecture**

1) Finding –Appropriate Exterior Materials. Per Section 5.15.9.(C)(3) of the BZDSO, accessory structures should be architecturally compatible with primary structures. No elevations or details have been provided for the proposed screening for the propane enclosure and ice/outdoor coolers. Additional information on the proposed screening must be provided for review. It should be noted that exposed metal caging is not appropriate as this elevation faces towards Highway 46.

June 28, 2023 Page 4 of 5

- 2) Finding Appropriate Exterior Materials. Per Section 5.15.9.(D)(2) pitched roofs are defined as 4 and 12 pitch or greater. The carwash proposes the use of a 2 and 12 pitched roof. The roof pitch must be increased to meet this requirement. Further, a determination on the appropriateness of the curved gas canopies must be made, as they are not a typical roof type to the Lowcountry.
- 3) Finding. Other Requirements. Per Section 5.15.12(A) of the BZDSO, heating, ventilating, and air conditioning equipment, duct work, air compressors, and other fixed operating machinery shall be either screened from view or located so that such items are not visible from the highway. Additional information must be provided regarding the location of proposed service yards and utilities. Should they be located on the roof, a roof plan must be provided as not enough information has been provided to ensure they will be screened from view.

#### **B. PUD MASTER PLAN**

The New Riverside Village Master Plan document refers to the New Riverside PUD for design standards.

- 1) Finding. New Riverside Village Master Plan. As there are no design guidelines established in the New Riverside Village Master Plan for the site, no additional design review was performed.
- C. DECLARATION OF COVENANTS, CONDITIONS, AND RESTRICTIONS
  The Declaration of Covenants, Conditions, and Restrictions for the New
  Riverside Village Master Plan.
  - 1) Finding. Declaration of Covenants, Conditions, and Restrictions for New Riverside Village. The applicant must provide a letter of approval from the Declarant for the covenants and restriction which are recorded with the New Riverside Village Master Plan.
- 3. <u>Section 3.17.3.C.</u> The application must comply with applicable requirements in the Application Manual.
  - a. *Finding.* The application has been reviewed by Town Staff and has been determined to be complete and that it meets all requirements of the Applications Manual. It should be noted that any proposed signage is reviewed through a Sign Permit process separate from this review. Any proposed signage will need to submit Sign Permits for review and approval prior to installation.

**TOWN STAFF RECOMMENDATION:** Town Staff finds that with the conditions noted below, the requirements of Section 3.17.3 of the Unified Development Ordinance will be met and recommends that the Planning Commission approve the application with the following conditions:

1. Landscape.

June 28, 2023 Page 5 of 5

- a. Per Section 5.15.8.D.(2) of the BZDSO, the Landscape Plan must be updated to include additional plantings to create an eight (8) foundation buffer along the east side.
- b. Per Section 5.15.8.D.(5) of the BZDSO, the 1 ½" caliper dbh Washington Hawthorns used as Landscaped Peninsula trees must be increased to a minimum of 2" calipers.

#### 2. Architecture

- a. Per Section 5.15.9.(C)(3), elevations showing the proposed propane enclosure and ice/outdoor coolers must be provided to ensure the design meets the requirements of the design standards.
- b. Per Section 5.15.9.(D)(2), the 2 and 12 pitched roof must be revised to a minimum of 4 and 12.
- c. Per Section 5.15.9.(D)(2), a determination on the appropriateness of the curved gas canopies must be made, as they are not a typical roof type to the Lowcountry.
- d. Per Section 5.15.12(A), additional information must be provided regarding the location of proposed service yards and utilities, and if proposed on the roof, a roof plan provided as not enough information has been provided to ensure they will be screened from view.

### 3. Additional Requirements

- a. A letter of approval from the Declarant for the covenants and restriction which are recorded with the New Riverside Village Master Plan.
- b. All comments must be addressed, and a Final Development Plan must be approved prior to issuance of the Certificate of Appropriateness HCO.
- c. Signage Permits must be submitted to the Town of Bluffton for review and approval for the signage proposed at each site in the proposed development.

#### **ATTACHMENTS:**

- 1. Application and Narrative
- 2. Site Plan, Elevations and Materials
- 3. Landscape Plans
- 4. Lighting Plan and Details
- 5. DRC Comments, May 10, 2023

Katie Peterson, AICP Senior Planner Town of. Bluffton 20 Bridge Street Bluffton, SC 29910 March 28, 2023

RE: Refuel 1062

Certificate of Appropriateness HCO

Ms. Peterson,

We are submitted our application for certificate of appropriateness for Highway Corridor Overlay for a proposed Refuel Convenience Store. The project consists of a 4,958 SF convenience store with 6 dispensers. There is also a proposed car wash onsite. The proposed development is located within the New Riverside approved Conceptual Master Plan. The site layout is in line with the lot's Conceptual Master Plan incorporating the required buffers which helps create/protect open spaces.

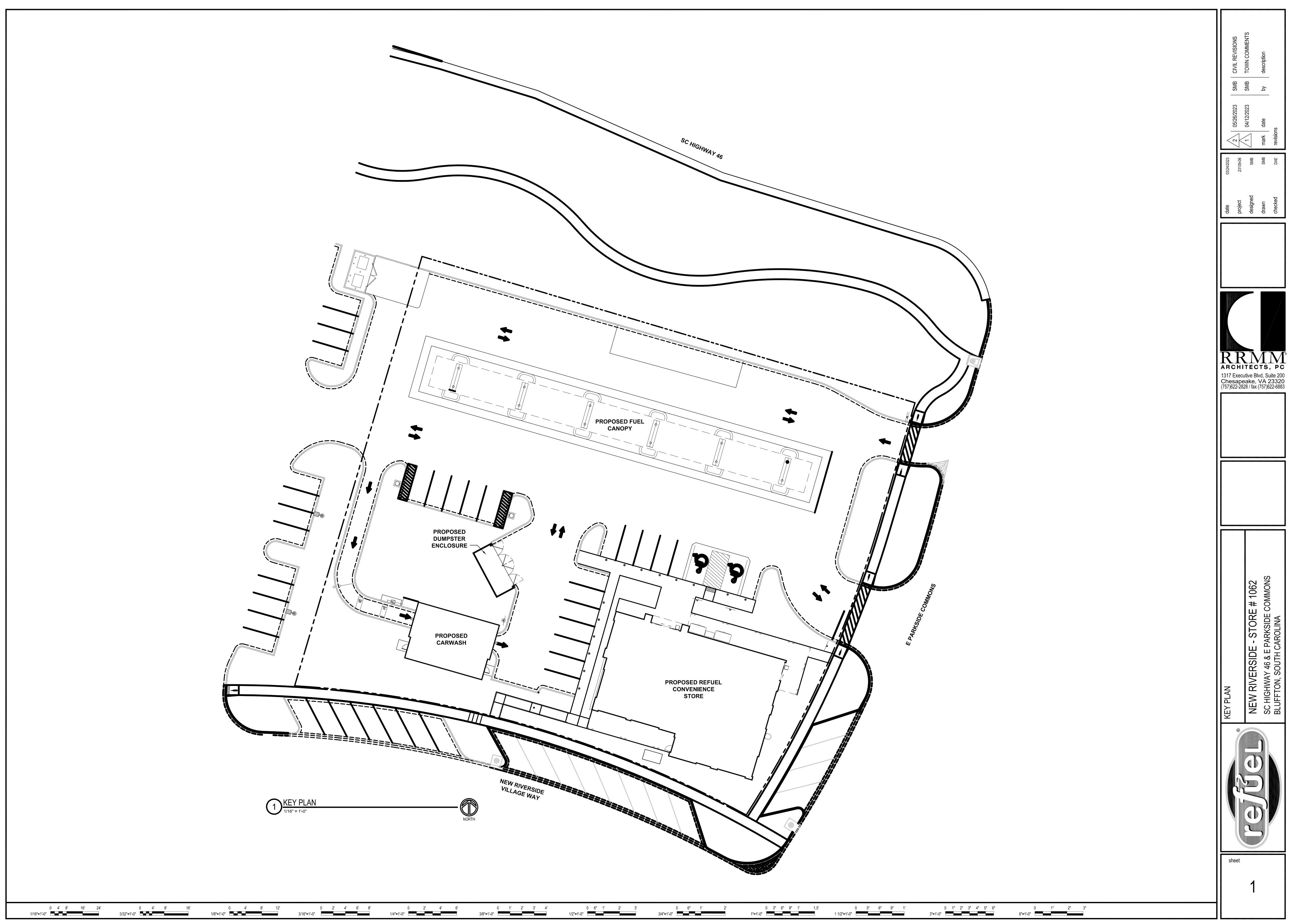
The proposed design promotes the requirements outlined within HCO Districts requirements. The design promotes protection of architectural and historical heritage of the Town of Bluffton through it's Low-Country design elements. The design enhances the cultural image and character of the Town of Bluffton's historical charm.

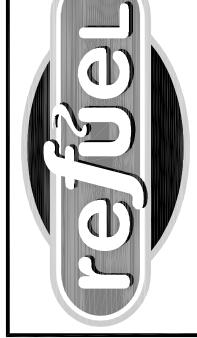
Refuel's sense of community involvement embraces community unity and enhancement of the Town's cultural image.

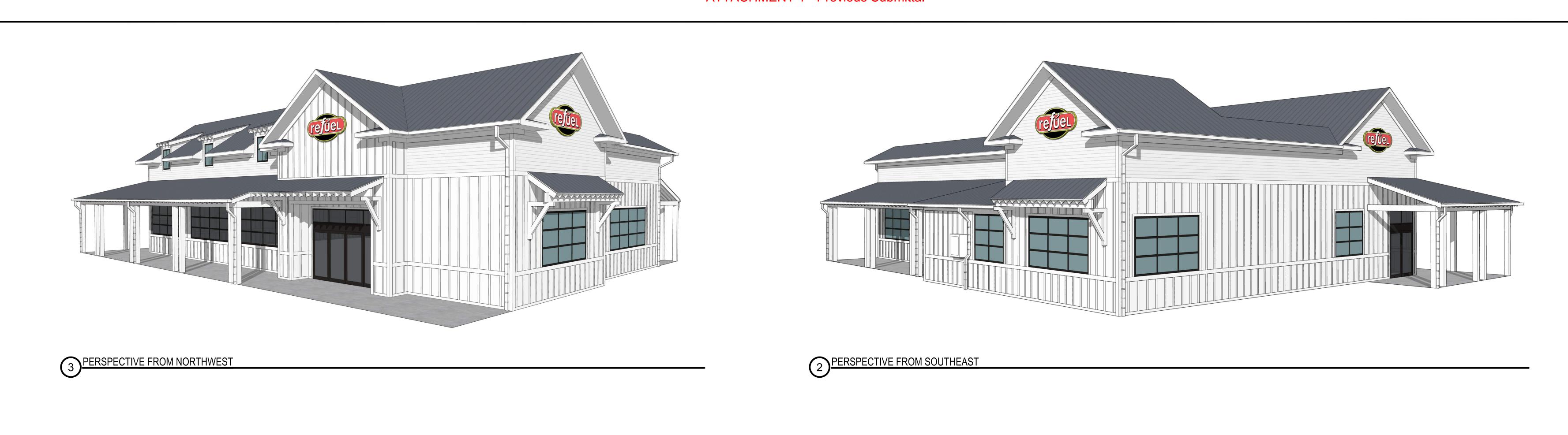
Upon review of the provided documents, do not hesitate to contact me with any questions you may have.

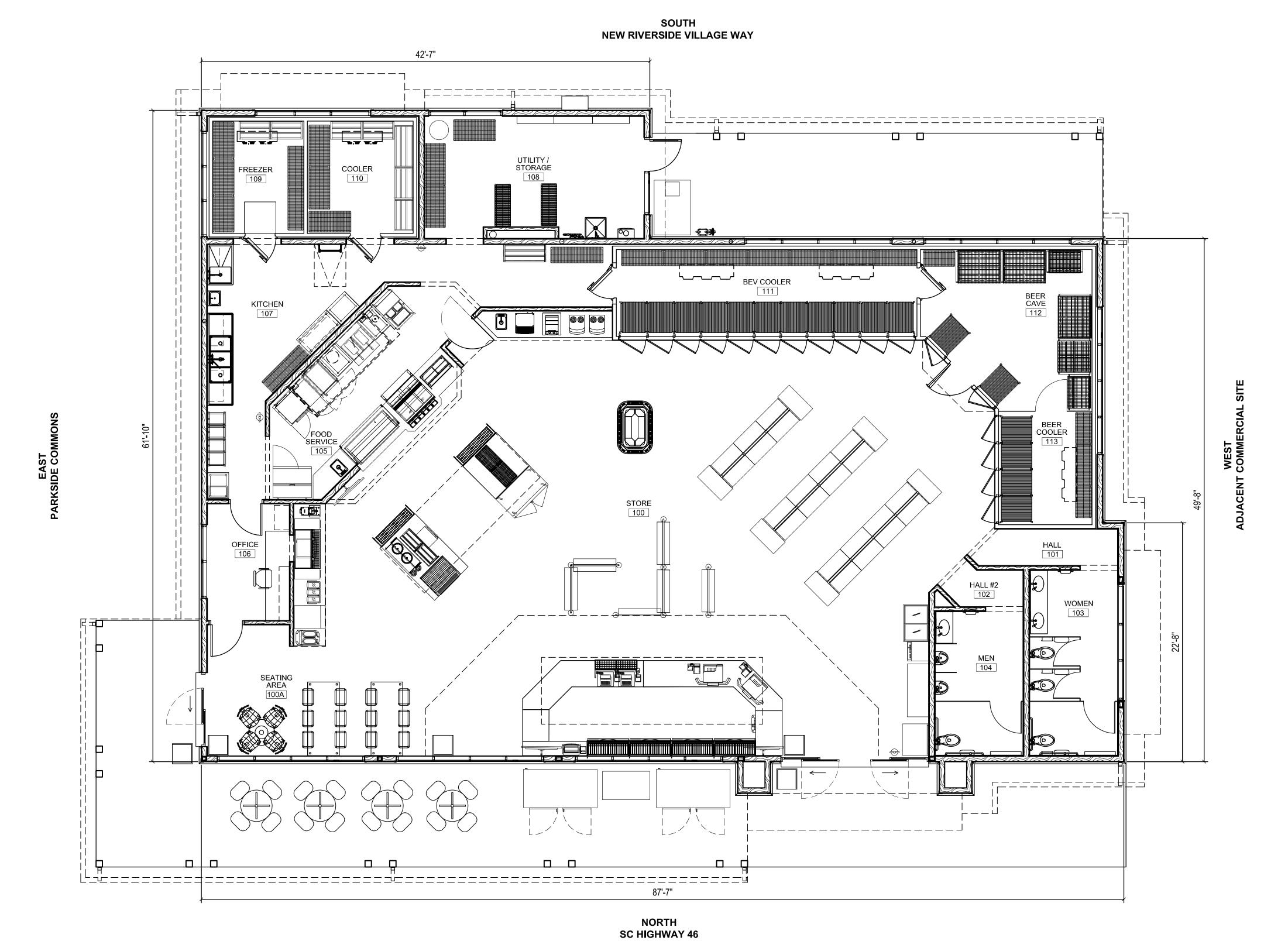
Sincerely,

Narciso Lira Odyssey Services Group









3/16"=1'-0"

0 4' 8' 12'

1/8"=1'-0"

3/8"=1'-0"

0 6" 1' 2' 3'

1/2"=1'-0"

0 6" 1' 2'

3/4"=1'-0"

0 2' 4' 6'

1/4"=1'-0"

1) FLOOR PLAN
3/16" = 1'-0"

0 4' 8' 16'

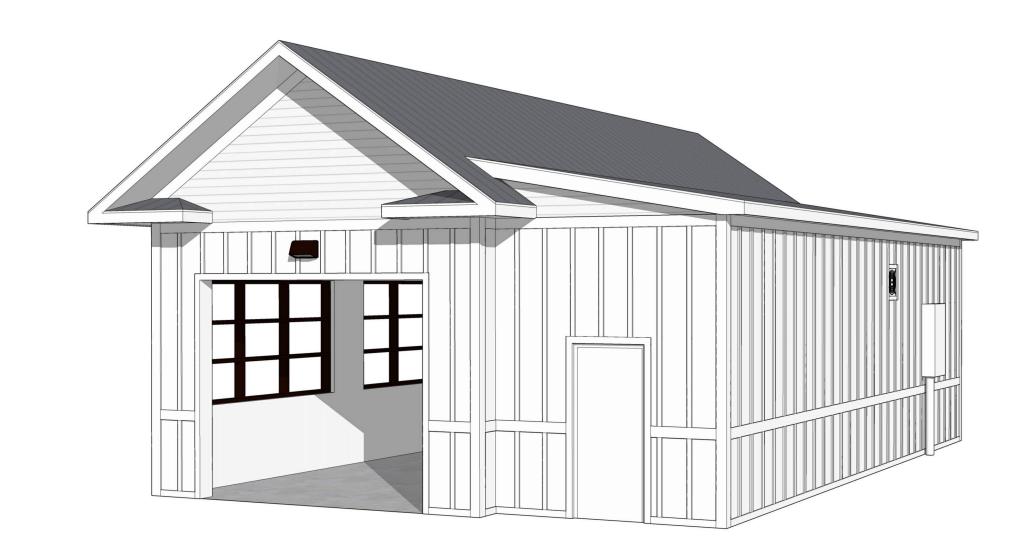
3/32"=1'-0"

0 4' 8' 16' 24'

1/16"=1'-0"



(3) CAR WASHPERSPECTIVE FROM NORTHEAST



0 1" 2" 3" 4" 5" 6"

3"=1'-0"

0 1" 2" 3"

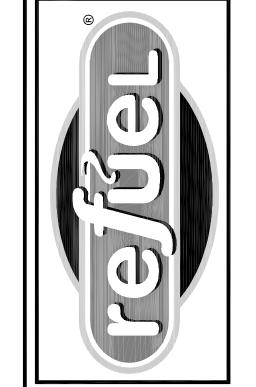
6"=1'-0"

CAR WASHPERSPECTIVE FROM SOUTHWEST

0 3" 6" 9" 1' 1 1/2"=1'-0"

0 3" 6" 9" 1' 1.5'

1"=1'-0"



1317 Executive Blvd, Suite 200 Chesapeake, VA 23320 (757)622-2828 / fax (757)622-6883

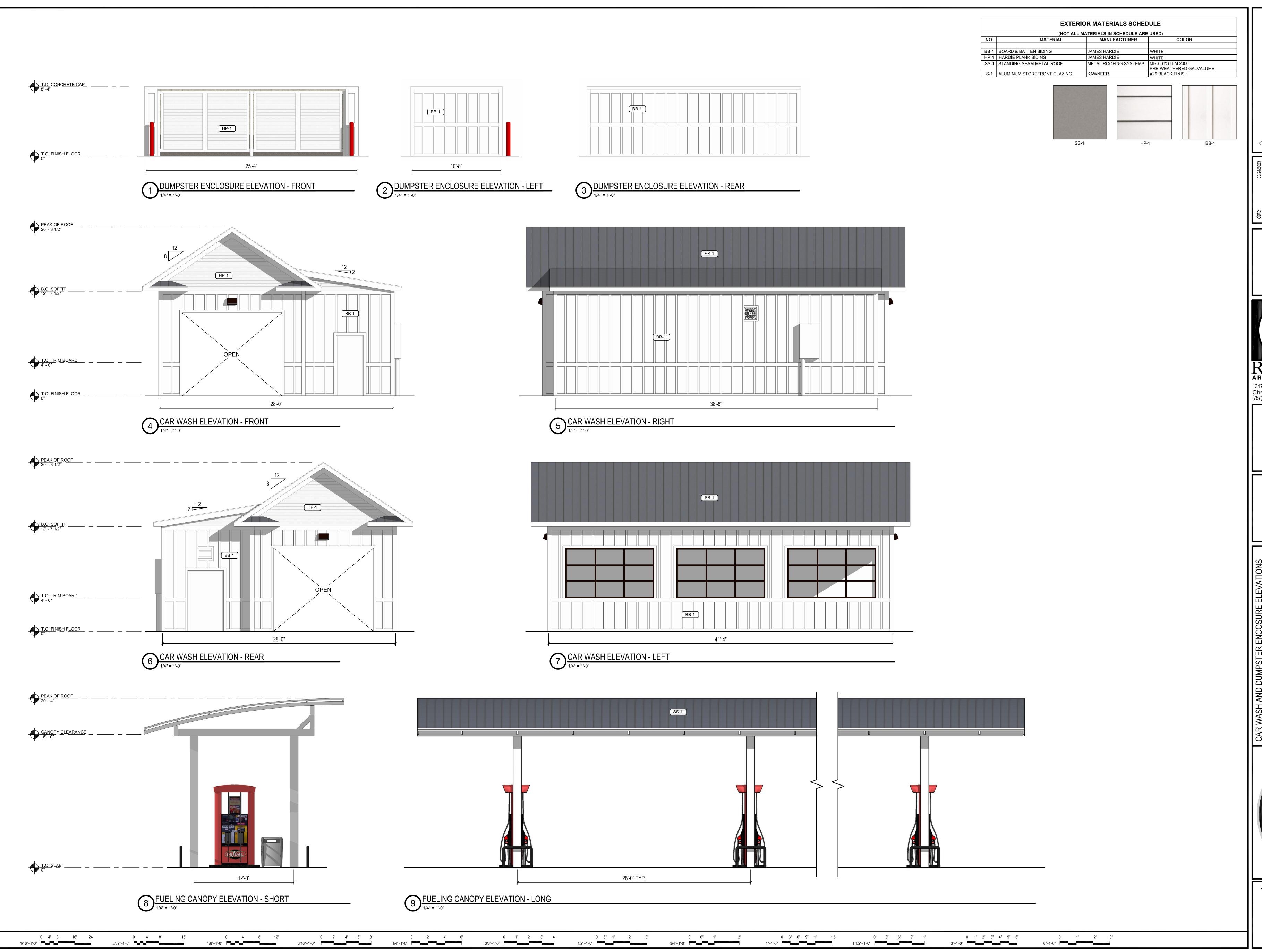
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1317 Executive Blvd, Suite 200 Chesapeake, VA 23320 (757)622-2828 / fax (757)622-6883





023 SMB CIVIL REVISIONS
023 SMB TOWN COMMENTS
by description

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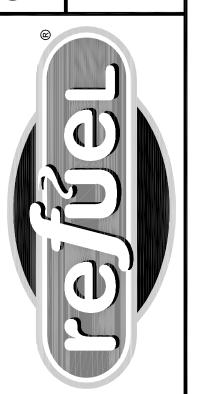
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ARCHITECTS, PC

1317 Executive Blvd, Suite 200
Chesapeake, VA 23320
(757)622-2828 / fax (757)622-6883

UMPSTER ENCOSURE ELEVATIONS
IDE - STORE # 1062
& E PARKSIDE COMMONS



4



1	2	3	4	5	6 7
					THE CANOPY OF EXISTING TREES IS REPRESENTED BY A CIRCLE, TYP.
		10 15	1		REFREGENTED BY A CIRCLE, 11F.
	LAO 17	LAO 14		100 20	
0 18 /	Power Box	- P - P - P - P - P - P - P - P - P - P	FUTURE R/W 0	.28 ACRE	LO 13 LO 27
/	18 CC	<b>8 8 8 8</b>	CHENSPACE	LAO 18 8 8	107
	PNO	8	AO (6)	ad Bark Pall	<b>3</b>
	R08	10 10 HIV 14		<b>3. 3.</b>	WO 1A
	LAO 7/A	OPEN SPACE	AO 18	• LAO 18 OPENS	PACE & Lo 17
			*		7 LB 1 NS
			UNDERGROUND TA		1 NS
25		<b>←</b> →		<b>—</b>	4 CF 66 IG
PN 12	9				15 IG
5					2 NS
		CL TO CL	FACE	TO FACE	
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CED 10 PN 13	3 RA				
220 LAO 2	3 RA 1 TD	12 IC 1 TD	3 IG		15 RK
AO 20	12 IC		1 TD	1 CP	1 TD
RO 18	EDGE		5 IC	NS:3333	12 RK S
		12			
LAO 17 X LAO 13		8 IV	<u> </u>	2 RK ENTRANCE FF=39.00	ARIE CO
	1 4 IG	1 CP	E E E E E E E E E E E E E E E E E E E	PROPOSED RE	FUEL S S S S S S S S S S S S S S S S S S S
PN 8		3 NS CAR WASH	1 CP.	4958 SQFT  LANDSCAPE OUTPARCEL K TRELLIS PARCEL 6	9 RK
RO 17		FF=39.00		1.56 ACRE	1 CF
8 8	EDGE FDGE V			5 IV	7 IV   14 IG
10		10 RK			
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			PLANT SCHEDU	JLE		
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
			TREES		<u> </u>	
CC	18	CERCIS CANADENSIS	EASTERN REDBUD	1.5" CAL.	PER PLAN	MINIMUM 12' HEIGHT
СР	3	CRATAEGUS PHAENOPYRUM 'PRINCETON SENTRY'	WASHINGTON HAWTHORN	1.5" CAL.	PER PLAN	MINIMUM 12' HEIGHT
NS	6	NYSSA SYLVATICA	BLACK GUM	6" CAL.	PER PLAN	MINIMUM 12' HEIGHT
TD	4	TAXODIUM DISTICHUM	BALD CYPRESS	6" CAL.	PER PLAN	MINIMUM 12' HEIGHT
			SHRUBS			
CF	7	CALYCANTHUS FLORIDUS	CAROLINA ALLSPICE	3' MIN. HT.	8' O.C.	
IC	24	ILEX CRENATA 'SKY PENCIL'	SKY PENCIL HOLLY	3' MIN. HT.	2' O.C.	
IG	99	ILEX GLABRA 'SHAMROCK'	INKBERRY	3' MIN. HT.	4' O.C.	
IV	47	ILEX VERTICILLATA 'BERRY POPPINS' & 'MR. POPPINS'	WINTERBERRY	3' MIN. HT.	4' O.C.	20% OF TOTAL TO BE MR. POPPINS FOR POLLINATION
LB	10	LINDERA BENZOIN	SPICEBUSH	3' MIN. HT.	10' O.C.	
RA	11	ROSA X 'NOAMEL'	APPLEBLOSSOM FLOWERCARPET ROSE	30" MIN. HT.	3' O.C.	
RK	87	ROSA 'KNOCKOUT'	SHRUB ROSE	30" MIN. HT.	4' O.C.	
			VINES			
GS	2	GELSEMIUM SEMPERVIRENS	CAROLINA JESSAMINE	3 GAL.	5' O.C.	
			GROUNDCOVER			
	GR	ROUNDCOVER MIX				
//////	124	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	1 GAL.	30" O.C.	40% OF AREA
	44	ACHILLEA MILLEFOLIUM	YARROW	1 GAL.	3' O.C.	20% OF AREA
	44	COREOPSIS VERTICILLATA	THREADLEAF COREOPSIS	1 GAL.	3' O.C.	20% OF AREA
<u>/////</u>	44	PENSTEMON 'DARK TOWERS'	PENSTEMON	1 GAL.	3' O.C.	20% OF AREA
,	3,313 SF	SOD: TIFWAY 419 BERMUDA	LAWN	SOD		
¥ ***	9,337 SF	MULCH: SHREDDED HARDWOOD				3" DEPTH; ALL PLANTING BED

## LEGEND

METAL EDGE: SEE LANDSCAPE SPECIFICATIONS

CANOPY COVERAGE TABL	.E
LOT COVERAGE AREA OF EXISTING CANOPY	14,796 SF
LOT COVERAGE AREA OF PROPOSED CANOPY	12,031 SF
TOTAL CANOPY COVERAGE AREA	26,827 SF
TOTAL LOT AREA	68,784 SF
LOT AREA NOT COVERED BY TREE CANOPY	41,957 SF
TREE CANOPY AS % OF LOT COVERAGE	39.0%

## LANDSCAPE REQUIREMENTS

SHRUBS PROVIDED: 77 SHRUBS

- 1) BUFFER AT RIGHT-OF-WAY: THE EXISTING VEGETATION IS LEFT UNTOUCHED. LENGTH OF RIGHT-OF-WAY: 256 LF OVERSTORY TREES REQUIRED: 16 TREES (6 PER 100 LF) OVERSTORY TREES PROVIDED: 32 TREES (EXISTING TREES) UNDERSTORY TREES REQUIRED: 18 TREES (7 PER 100 LF) UNDERSTORY TREES PROVIDED: 18 TREES SHRUBS REQUIRED: 77 SHRUBS (30 PER LF)
- 2) PARKING LOT SCREENING: SHRUBS HAVE BEEN PLANTED AROUND THE EDGES OF THE PROPERTY TO SCREEN THE PARKING LOT FROM VIEW.
- 3) PARKING LOT PLANTING: THE PARKING LOT ISLANDS HAVE BEEN PLANTED WITH SHRUBS
- AND 1 TREE PER ISLAND.
- 4) FOUNDATION PLANTING: A MIX OF TREES, SHRUBS, VINES, AND GROUNDCOVER ARE
- SHOWN AROUND THE FOUNDATION OF THE BUILDING. 5) TREE MITIGATION: TEN PROPOSED SHADE TREES ARE SHOWN ON THE PLAN. THEY ARE
- NOTED TO BE PLANTED AT 6" CALIPER TO MAXIMIZE MITIGATION. THIS IS THE MAXIMUM NUMBER OF SHADE TREES THAT CAN BE PLANTED DUE TO CONFLICTS WITH UTILITIES. ONE EXISTING TREE IS EXPECTED TO BE RETAINED WITHIN THE DEVELOPED AREA AND CAN COUNT TOWARD MITIGATION. THE PLAN ALSO INCLUDES 21 SMALL TREES.

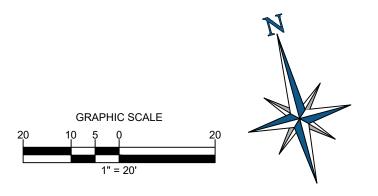
## LANDSCAPE PLAN NOTES

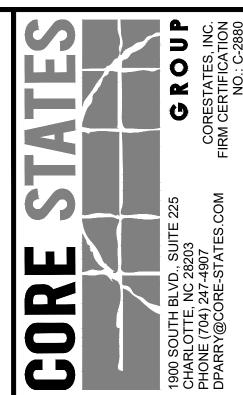
- 1) SOIL TYPE PER NRCS SOIL SURVEY: WANDO FINE SAND & SEABROOK FINE SAND
- 2) THERE IS 1 EXISTING TREE ON SITE THAT WILL BE USED FOR LANDSCAPE REQUIREMENTS. 3) SINCE THE PROPOSED SHADE TREES ARE SIZED AT 6" CALIPER, THE PROPOSED TREES ACCOUNTS FOR 18 MITIGATION TREES; TOTAL OF 19 MITIGATION TREES INCLUDING THE EXISTING TREE TO BE RETAINED.
- 4) FOR THE GROUNDCOVER MIX, THE ENTIRE AREA IS TO BE PLANTED WITH THE CHASMANTHIUM, AND THE OTHER THREE SPECIES ARE TO BE RANDOMLY INTERMINGLED.

## **ROOT BARRIERS**

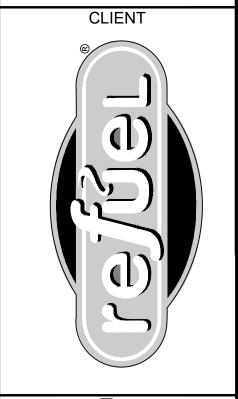
THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.







DOCUMENTS PREPARED BY CORESTATES, INC INCLUDING THIS DOCUMENT, ARE TO BE USED INCLUDING THIS DOCUMENT, ARE TO BE USED ONLY FOR THE SPECIFIC PROJECT AND SPECIFI USE FOR WHICH THEY WERE INTENDED. ANY EXTENSION OF USE TO ANY OTHER PROJECTS, BY OWNER OR BY ANY OTHER PARTY, WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORESTATES, INC. IS DONE UNLAWFULLY AND AT THE USERS OWN RISK. IF USED IN A WAY OTHER THAN THAT SPECIFICALLY INTENDED, USER WILL HOLD CORESTATES, INC. HARMLES FROM ALL CLAIMS AND LOSSES.



PALMETTO UTILITY PROTECTION SERVICE SOUTH CAROLINA PUPS REVISIONS REV DATE COMMENT

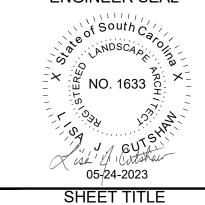
DOCUMENT PRELIMINARY DEVELOPMENT PLAN

SITE LOCATION

NEW RIVERSIDE VILLAGE, BLUFFTON, SC 29910

CERTIFICATE OF AUTHORIZATION

ENGINEER SEAL South



**PRELIMINARY** LANDSCAPING PLAN

JOB #:	RFL.35149
DATE:	12/13/2022
SCALE:	AS SHOWN
DRAWN BY:	KB
CHECKED BY:	BS
SHEET NO.	

#### **GENERAL**

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM

- SPECIALIZING IN LANDSCAPE PLANTING. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
- THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION. B. SCOPE OF WORK WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS.
  - LABOR SERVICES FOUIPMENT LICENSES TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION. INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL
- TRANSPORTATION AND INSTALLATION OF MATERIALS. 3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF **ANY WORK**

INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY,

ALL MANUFACTURED PRODUCTS SHALL BE NEW. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:

- FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
- ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS
- TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF
- LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL
- LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES
- ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT ELARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT. MEASURED FROM THE TOP OF THE ROOT BALL. WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
- ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE
- ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/2 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8;
- MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER
- NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW). MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS. TREE STAKING AND GUYING
- STAKES: 6' LONG GREEN METAL T-POSTS. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH
- STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH
- GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK
- GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

A. SOIL PREPARATION

- WORK THE LANDSCAPE CONTRACTOR SHALL VERIEV THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
- SOIL TESTING: AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE
- SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT. SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
- THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
- THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE. SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
- FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING: TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
- NITROGEN STABILIZED ORGANIC AMENDMENT 4 CU. YDS. PER 1,000 S.F.
- PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) 15 LBS PER 1,000 "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
- TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
- NITROGEN STABILIZED ORGANIC AMENDMENT 4 CU. YDS. PER 1,000 S.F. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS, PER CU. YD.
- "CLAY BUSTER" OR EQUAL USE MANUFACTURER'S RECOMMENDED RATE
- IRON SULPHATE 2 LBS. PER CU. YD. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS. a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS
- FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING
- THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED
- d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY
- FROM THE WALKS. e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS. IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS. AT APPROXIMATELY 18" AWAY FROM THE WALKS. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS.

GEOTECHNICAL REPORT THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE

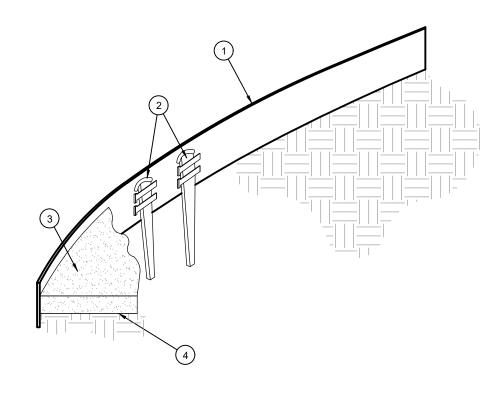
CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE

ARCHITECT, GENERAL CONTRACTOR, AND OWNER. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL

- THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES. IF REQUIRED. TO THE LANDSCAPE
  - ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES. AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE
  - SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY). WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE
- ITEM BEING CONSIDERED. C. GENERAL PLANTING REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
- EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE. TRENCHING NEAR EXISTING TREES:
- CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE
- b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE
- EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE FREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST.
- CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS. d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
- TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
- SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE. FOR CONTAINER AND BOX TREES. TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS. THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS
- OUT FROM THE ROOTBALL. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE
- BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
- TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
- 1"-2" TREES TWO STAKES PER TREE 2-1/2"-4" TREES THREE STAKES PER TREE
- TREES OVER 4" CALIPER GUY AS NEEDED MULTI-TRUNK TREES THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS
- NEEDED TO STABILIZE THE TREE UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).
- D. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL HE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST
- WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS. COVERING THE ENTIRE PLANTING AREA.
- SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD
- STRIPS DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
- WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
- INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND
- DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL
- DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
- ERIALS OFF THE PROJECT SITE. H. INSPECTION AND ACCEPTANCE UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN.
- FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE

LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S

- SATISFACTION WITHIN 24 HOURS. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
- LANDSCAPE MAINTENANCE THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED MOWING AND AFRATION OF LAWNS WEEDING RESERVING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON
- TO MAXIMIZE WATER CONSERVATION SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM,
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING
- CONDITIONS MUST OCCUR: a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
- ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL
- WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SEEDED/HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE
- DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE
- CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.



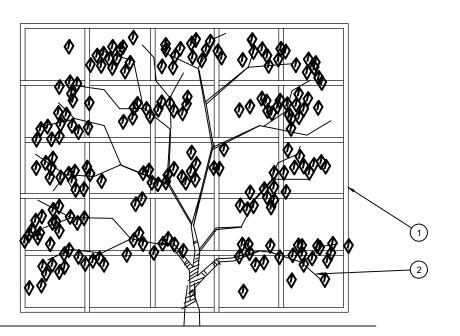
(1) ROLLED-TOP STEEL EDGING PER PLANS.

(2) TAPERED STEEL STAKES.

(4) FINISH GRADE.

- (3) MULCH, TYPE AND DEPTH PER PLANS.
- 1) INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED. BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE. 3) TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

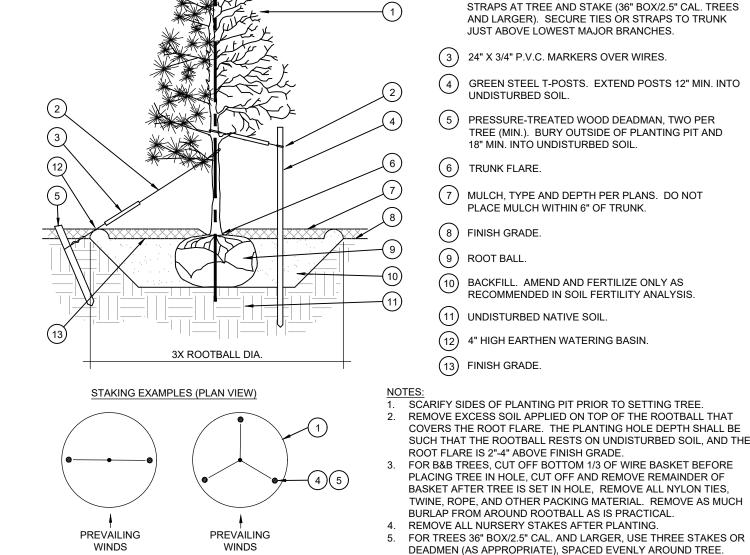




1 TRELLIS PER PLAN VINE. REMOVE NURSERY STAKES AND SECURE TO TRELLIS WITH VINE TIES.

VINE PLANTING ON TRELLIS

ARRANGE VINE STEMS EVENLY ACROSS



NON-CONIFEROUS

CONIFEROUS

TREE PLANTING

SCALE: NOT TO SCALE

1) SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.

6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM

BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT

- ) MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.
- (3) FINISH GRADE.
- (4) ROOT BALL.

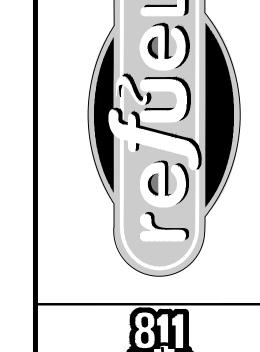
(1) TREE CANOPY.

CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR

2 GAUGE GALVANIZED WIRE WITH NYLON TREE

- (5) BACKFILL. AMEND AND FERTILIZE ONLY AS
- (6) UNDISTURBED NATIVE SOIL.
- (7) 3" HIGH EARTHEN WATERING BASIN

SHRUB AND PERENNIAL PLANTING



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NLY FOR THE SPECIFIC PROJECT AND SPEC USE FOR WHICH THEY WERE INTENDED. AN



REVISIONS REV DATE COMMENT

DOCUMENT PRELIMINARY **DEVELOPMENT PLAN** 

SITE LOCATION

NEW RIVERSIDE VILLAGE BLUFFTON, SC 29910

CERTIFICATE OF AUTHORIZATION

**ENGINEER SEAL** NO. 1633 05-24-2023

EVERGREEN

DESIGN GROUP

(800) 680-6630

170 Meeting St., Ste 110

Charleston, SC 29401

www.EvergreenDesignGroup.com

SHEET TITLE LANDSCAPE **SPECIFICATIONS &** DETAILS

RFL.3514 12/13/202 SCALE: AS SHOWN DRAWN BY: CHECKED BY:

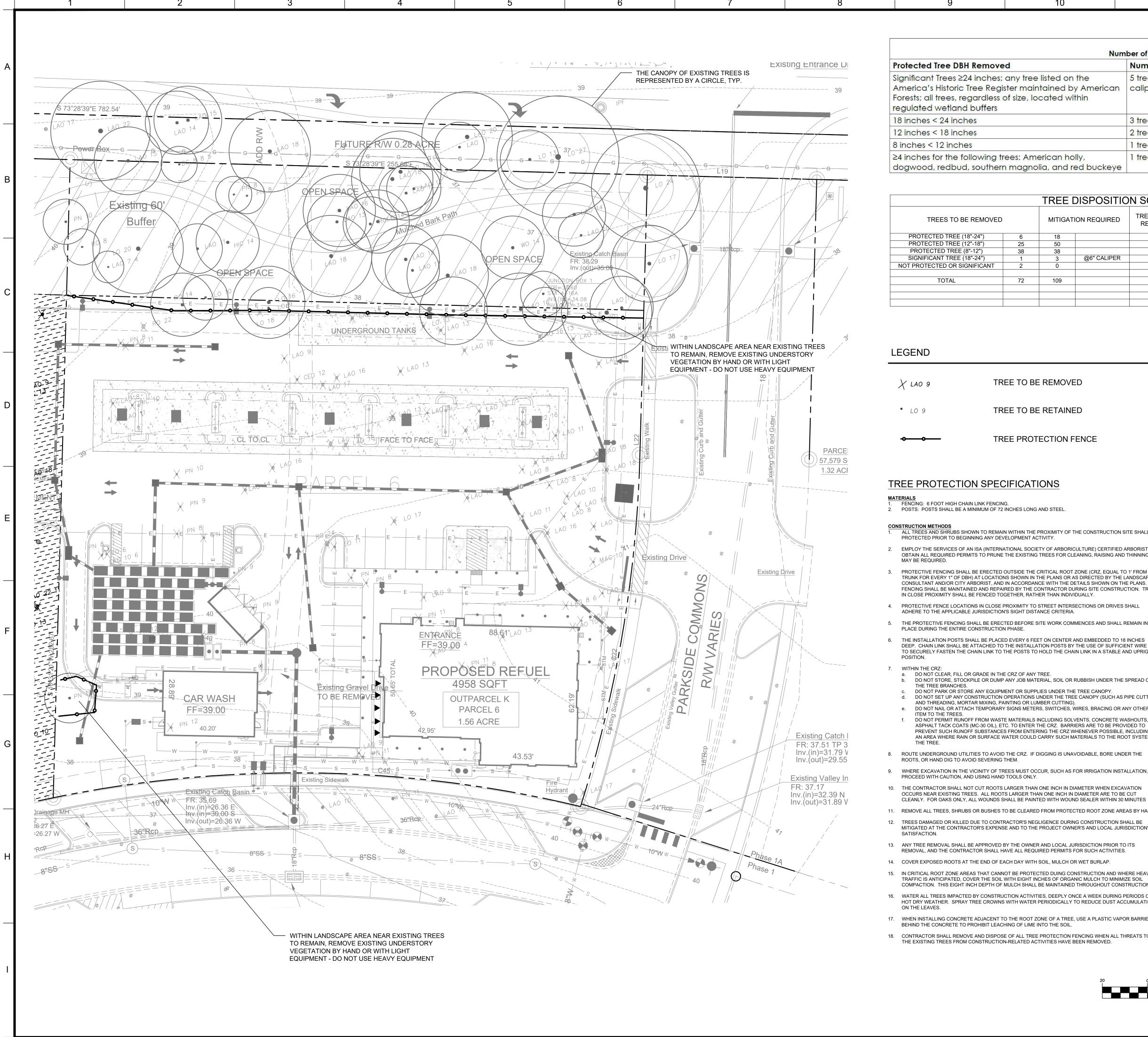


Table 5.3.3.G  Number of Replacement Trees Required				
Protected Tree DBH Removed	Number of Replacement Trees			
Significant Trees ≥24 inches; any tree listed on the America's Historic Tree Register maintained by American Forests; all trees, regardless of size, located within regulated wetland buffers	5 trees or 3 trees with a 6-inch caliper at time of planting			
18 inches < 24 inches	3 trees			
12 inches < 18 inches	2 trees			
8 inches < 12 inches	1 tree			
≥4 inches for the following trees: American holly, dogwood, redbud, southern magnolia, and red buckeye	1 tree			

		TREE	DISPOSITIO	N SCHEDU	LE		
TREES TO BE REMOVED		MITIGAT	ION REQUIRED	TREES TO BE RETAINED	CANOPY TREES TO BE PLANTED	UNDERSTORY TREES TO BE PLANTED	MITIGATION PROVIDED
PROTECTED TREE (18"-24")	6	18		1			1
PROTECTED TREE (12"-18")	25	50		4			4
PROTECTED TREE (8"-12")	38	38		5			5
SIGNIFICANT TREE (18"-24")	1	3	@6" CALIPER				
NOT PROTECTED OR SIGNIFICANT	2	0					
TOTAL	72	109		19	6 (X3)	3	32

TREE TO BE REMOVED X LAO 9

TREE TO BE RETAINED

TREE PROTECTION FENCE

## TREE PROTECTION SPECIFICATIONS

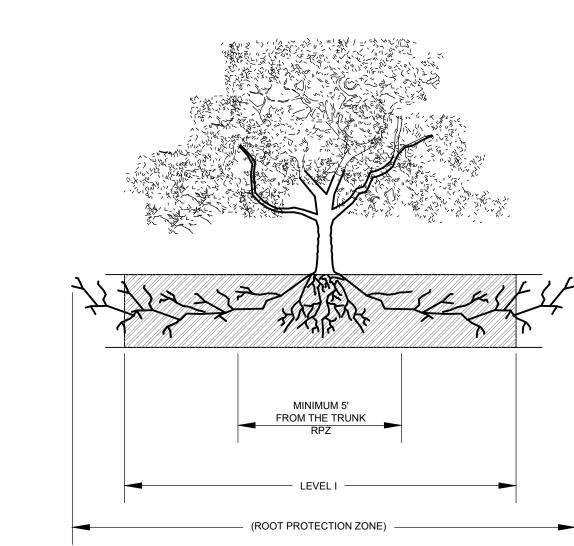
FENCING: 6 FOOT HIGH CHAIN LINK FENCING. POSTS: POSTS SHALL BE A MINIMUM OF 72 INCHES LONG AND STEEL.

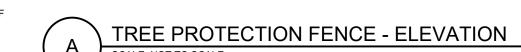
ALL TREES AND SHRUBS SHOWN TO REMAIN WITHIN THE PROXIMITY OF THE CONSTRUCTION SITE SHALL BE PROTECTED PRIOR TO BEGINNING ANY DEVELOPMENT ACTIVITY.

- EMPLOY THE SERVICES OF AN ISA (INTERNATIONAL SOCIETY OF ARBORICULTURE) CERTIFIED ARBORIST AND OBTAIN ALL REQUIRED PERMITS TO PRUNE THE EXISTING TREES FOR CLEANING, RAISING AND THINNING, AS PROTECTIVE FENCING SHALL BE ERECTED OUTSIDE THE CRITICAL ROOT ZONE (CRZ. EQUAL TO 1' FROM THE
- TRUNK FOR EVERY 1" OF DBH) AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE LANDSCAPE CONSULTANT AND/OR CITY ARBORIST, AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. TREES IN CLOSE PROXIMITY SHALL BE FENCED TOGETHER, RATHER THAN INDIVIDUALLY.
- 4. PROTECTIVE FENCE LOCATIONS IN CLOSE PROXIMITY TO STREET INTERSECTIONS OR DRIVES SHALL ADHERE TO THE APPLICABLE JURISDICTION'S SIGHT DISTANCE CRITERIA.
- 5. THE PROTECTIVE FENCING SHALL BE ERECTED BEFORE SITE WORK COMMENCES AND SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PHASE.
- 6. THE INSTALLATION POSTS SHALL BE PLACED EVERY 6 FEET ON CENTER AND EMBEDDED TO 18 INCHES DEEP. CHAIN LINK SHALL BE ATTACHED TO THE INSTALLATION POSTS BY THE USE OF SUFFICIENT WIRE TIES TO SECURELY FASTEN THE CHAIN LINK TO THE POSTS TO HOLD THE CHAIN LINK IN A STABLE AND UPRIGHT

## 7. WITHIN THE CRZ:

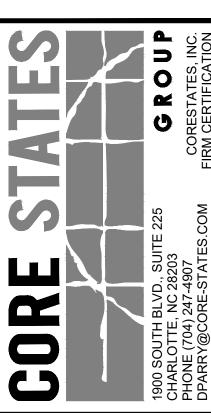
- a. DO NOT CLEAR, FILL OR GRADE IN THE CRZ OF ANY TREE. b. DO NOT STORE, STOCKPILE OR DUMP ANY JOB MATERIAL, SOIL OR RUBBISH UNDER THE SPREAD OF
- THE TREE BRANCHES. c. DO NOT PARK OR STORE ANY EQUIPMENT OR SUPPLIES UNDER THE TREE CANOPY. DO NOT SET UP ANY CONSTRUCTION OPERATIONS UNDER THE TREE CANOPY (SUCH AS PIPE CUTTING
- AND THREADING, MORTAR MIXING, PAINTING OR LUMBER CUTTING). e. DO NOT NAIL OR ATTACH TEMPORARY SIGNS METERS, SWITCHES, WIRES, BRACING OR ANY OTHER ITEM TO THE TREES.
- f. DO NOT PERMIT RUNOFF FROM WASTE MATERIALS INCLUDING SOLVENTS, CONCRETE WASHOUTS, ASPHALT TACK COATS (MC-30 OIL), ETC. TO ENTER THE CRZ. BARRIERS ARE TO BE PROVIDED TO PREVENT SUCH RUNOFF SUBSTANCES FROM ENTERING THE CRZ WHENEVER POSSIBLE, INCLUDING IN AN AREA WHERE RAIN OR SURFACE WATER COULD CARRY SUCH MATERIALS TO THE ROOT SYSTEM OF
- 8. ROUTE UNDERGROUND UTILITIES TO AVOID THE CRZ. IF DIGGING IS UNAVOIDABLE, BORE UNDER THE ROOTS, OR HAND DIG TO AVOID SEVERING THEM.
- 9. WHERE EXCAVATION IN THE VICINITY OF TREES MUST OCCUR, SUCH AS FOR IRRIGATION INSTALLATION, PROCEED WITH CAUTION, AND USING HAND TOOLS ONLY.
- 10. THE CONTRACTOR SHALL NOT CUT ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATION OCCURS NEAR EXISTING TREES. ALL ROOTS LARGER THAN ONE INCH IN DIAMETER ARE TO BE CUT
- 11. REMOVE ALL TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS BY HAND.
- 12. TREES DAMAGED OR KILLED DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED AT THE CONTRACTOR'S EXPENSE AND TO THE PROJECT OWNER'S AND LOCAL JURISDICTION'S
- 13. ANY TREE REMOVAL SHALL BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO ITS REMOVAL, AND THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS FOR SUCH ACTIVITIES.
- 14. COVER EXPOSED ROOTS AT THE END OF EACH DAY WITH SOIL, MULCH OR WET BURLAP.
- 15. IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DUING CONSTRUCTION AND WHERE HEAVY TRAFFIC IS ANTICIPATED, COVER THE SOIL WITH EIGHT INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. THIS EIGHT INCH DEPTH OF MULCH SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 16. WATER ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES, DEEPLY ONCE A WEEK DURING PERIODS OF HOT DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION
- 17. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
- 18. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREE PROTECTION FENCING WHEN ALL THREATS TO THE EXISTING TREES FROM CONSTRUCTION-RELATED ACTIVITIES HAVE BEEN REMOVED.



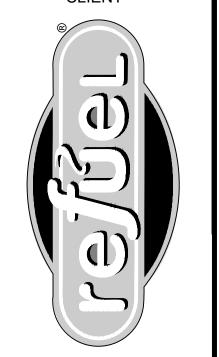








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FROM ALL CLAIMS AND LOSSES.



ALMETTO UTILITY PROTECTION SERVICE SOUTH CAROLINA PUPS

REVISIONS EV DATE

DOCUMENT **PRELIMINARY DEVELOPMENT PLAN** 

SITE LOCATION

**NEW RIVERSIDE VILLAGE** BLUFFTON, SC 29910

CERTIFICATE OF AUTHORIZATION

**ENGINEER SEAL** NO. 1633 05-24-2023

SHEET TITLE TREE DISPOSITION PLAN

RFL.35149 12/13/202 SCALE: AS SHOWN DRAWN BY: CHECKED BY:

SHEET NO.

FF=39.00

User: KBOSCO Plot Date/Time: May. 30, 23 - 14:37:37 Drawing: P:\Refuel Market\BLUFFTON, SC (### Street Name, ZZZZZ)-RFL.35149\Design Files\Civil\Drawings\Presentation\RFL.35149-P-SITE.dwg; C9-LGI

FF=39.00

42.95'

LIGHTING PLAN

PROPOSED REFUEL

4958 SQFT

OUTPARCEL K

PARCEL 6

0.1

0.1

0.0

<sup>†</sup>0.0

L19

Existing Crive

1. SITE IS IDENTIFIED AS OUTPARCEL K AND J IN THE NEW RIVERSIDE VILLAGE. BOUNDARY AND TOPOGRAPHICAL SURVEYING BY THOMAS AND HUTTON, INC. 3. THE SITE IS ZONED PUD, PARCEL 6, A PORTION OF PARCEL 4B-2. THE SITE IS A

PORTION OF PARCEL 4B-2 (R610 036 000 1258 0000). 4. THE SITE IS LOCATED IN BEAUFORT COUNTY, SOUTH CAROLINA.

5. THE PROPOSED DEVELOPMENT IS A REFUEL SERVICE STATION FACILITY

THE SITE IS PRESENTLY UNDEVELOPED. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

REFER TO PARKING SUMMARY FOR STALL SIZES AND COUNT. 9. THE SITE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF

ALL UTILITIES PRIOR TO CONSTRUCTION. 10. ACCORDING TO FIRM MAP 45013C0405G DATED MARCH 23, 2021 (INDEX DATE MARCH 23, 2021 THE PROPERTY IS LOCATED IN ZONE X.)

# LUMINAIRE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CATALOG	QTY	DISTRIBUTION	MOUNT HT.
	CREE LIGHTING	OSQ™ LED AREA/FLOOD LUMINAIRE	OSQM-B-6L-40K7-3M-UL-NM-BK	3	TYPE 3	16'-0"
	CREE LIGHTING	OSQ™ LED AREA/FLOOD LUMINAIRE	OSQM-B-6L-40K7-4M-UL-NM-BK-BLSMF	1	TYPE 4	16'-0"
	CREE LIGHTING	OSQ™ LED AREA/FLOOD LUMINAIRE	OSQM-B-6L-40K7-4M-UL-NM-BK	2	TYPE 4	16'-0"
<del>@</del>	CREE LIGHTING	OSQ™ LED AREA/FLOOD LUMINAIRE	OSQM-B-6L-40K7-4M-UL-NM-BK-BLSMF	3	TYPE 4	16'-0"
	CREE LIGHTING	CUTOFF LED WALL PACK	C-WP-B-RDC-6L-40K-DB	7	-	10'-0"
$\boxtimes$	CREE LIGHTING	CPY250® LED CANOPY/SOFFIT LUMINAIRE	CPY250-B-DM-F-B-UL-BK-40K	2	-	16'-0"
Φ	CREE INC.	CR6T LED DOWNLIGHT - 6" (152MM)	CR6T-1600L-40K-12-E26GU24	2	-	12'-3"
0	BARN LIGHT ELECTRIC CO.	PENDANT LED DOWNLIGHT	BLE-S-WHB13-105-ST712-105-HSC-LED27-2700K-FL	12	-	10'-10"

CALCULATION SUMMARY (FULL SITE)					
AREA	AVERAGE	MAX	MIN		
LIGHTING ANALYSIS MEASURED AT GROUND ELEVATION	1.82 fc	14.8 fc	0.0 fc		

CALCULATION SUMMARY (COMMERCIAL PARKING)					
AREA	AVERAGE	MAX	MIN		
LIGHTING ANALYSIS MEASURED AT GROUND ELEVATION	1.73 fc	3.3 fc	0.6 fc		

CALCULATION SUMMARY (LANDSCAPE AND DECORATIVE)						
AREA	AVERAGE	MAX	MIN			
LIGHTING ANALYSIS MEASURED AT GROUND ELEVATION	0.48 fc	1.8 fc	0.0 fc			

CALCULATION SUMMARY (WALKWAYS AND STREETS)						
AREA	AVERAGE	MAX	MIN			
LIGHTING ANALYSIS MEASURED AT GROUND ELEVATION	0.82 fc	2.1 fc	0.2 fc			

CALCULATION SUMMARY (AREAS FOR DISPLAY OF OUTDOOR MERCHANDISE)				
AREA	AVERAGE	MAX	MIN	
LIGHTING ANALYSIS MEASURED AT GROUND ELEVATION	4.77 fc	14.8 fc	1.0 fc	

\*AREAS BEING ILLUMINATED BY SITE AND BUILDING LIGHTING FOR PUBLIC USE WHICH IMPACT THE CALCULATIVE AVERAGES OF THE SPECIFIC CALCULATIVE AREAS PROVIDED IN THE TABLES ABOVE HAVE BEEN OMITTED FROM THE CALCULATION SUMMARY TABLES TO PREVENT OBSCURING PHOTOMETRIC VALUES.

## SITE LEGEND:

 EXISTING PROPERTY BOUNDARY LINE
 EXISTING ADJOINING PROPERTY LINE
EXISTING ROAD CENTERLINE
 PROPOSED ROAD CENTERLINE
EXISTING CURB
PROPOSED CURB
DDODOSED BLILLDING

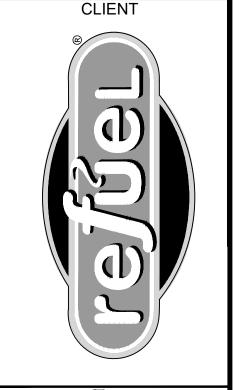
## **LIGHTING LEGEND:**

\*1.9 FOOTCANDLE CALCULATION POINT

PROPOSED SITE LIGHT FIXTURE

G SES COR

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ALMETTO UTILITY PROTECTION SERVICE SOUTH CAROLINA PUPS

REVISIONS REV DATE

DOCUMENT **PRELIMINARY DEVELOPMENT PLAN** 

SITE LOCATION

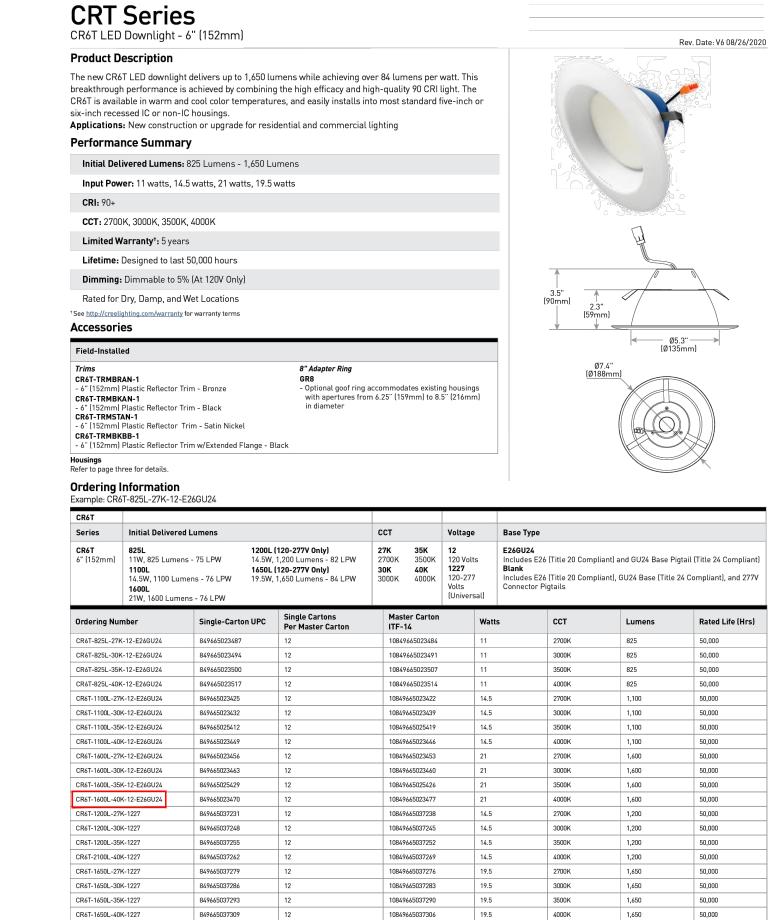
**NEW RIVERSIDE VILLAGE** BLUFFTON, SC 29910 CERTIFICATE OF AUTHORIZATION

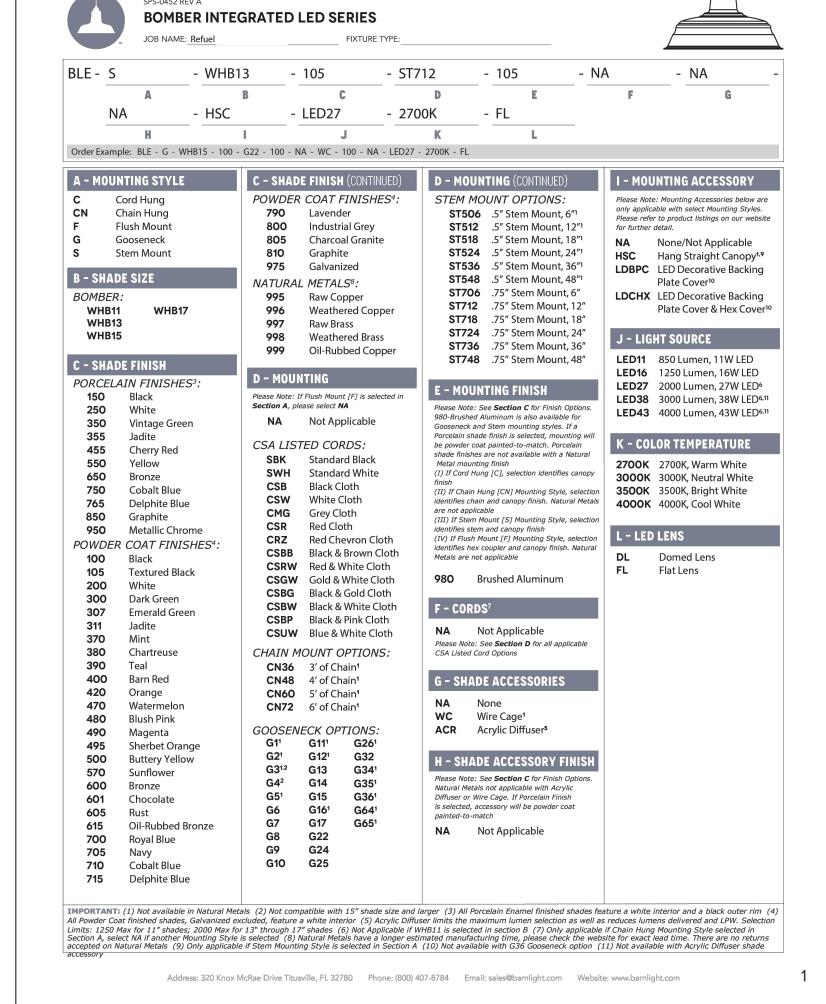


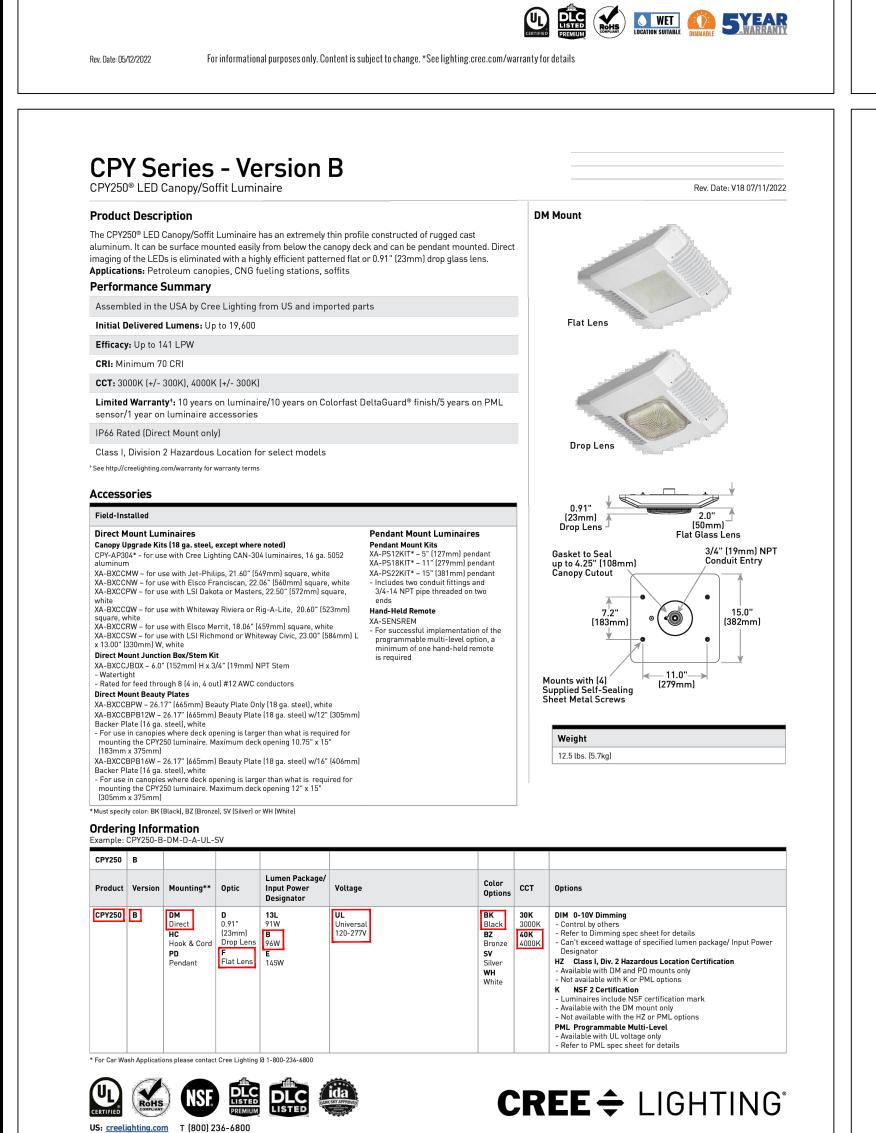
**BRIAN SEARCY, PE** PROFESSIONAL ENGINEER SC LICENSE #40407

05/25/202 DRAWN BY: CHECKED BY:

SHEET TITLE LIGHTING PLAN CREE \$\dightarrow\$ LIGHTING







User: KBOSCO Plot Date/Time: May. 30, 23 - 14:56:06 Drawing: P:\Refuel Market\BLUFFTON, SC (### Street Name, ZZZZZ)-RFL.35149\Design Files\Civil\Drawings\Presentation\RFL.35149-P-DETL.dwg; C19-LGHT DETAILS

up to 21,100 lumens and is available in 4000K and

and comes with a 5-year limited warranty. It also

comes with a DLC Premium 5.1 Listing.

Initial Delivered Lumens: 1500 - 21,000 Lumens

PRODUCT SPECIFICATIONS

Mounting height: 12 - 25 feet

Replaces up to 400W PSMH

4kV Surge suppression

Contractor friendly install

ORDERING INFORMATION

C-WP

C-WP

PRODUCT

Example: C-WP-B-RDC-1L-40K-DB

В

Canada: creelighting-canada.com T (800) 473-1234

RDC

Input Power: 12W/22W/47W/77W/144W

OVERVIEW

• CRI:≥70

CCT: 4000K, 5000K

• Dimmable: Yes, 0-10V

5000K. It's dimmable, for maximum energy savings,

• Operating Temperature Range: -40°F to 104°F (-40°C to 40°C)

4000K

5000K

(Cool White)

(Neutral White)

INPUT VOLTAGE

Universal (120V through 277V Operation)

DB

COLOR

Dark Bronze

c UL us

US: creelighting.com T (800) 236-6800

Canada: creelighting-canada.com T (800) 473-1234

Canada: creelighting-canada.com (800) 473-1234

• Estimated L70 Lifetime @ 25°C: > 100,000 hours

Power Factor: > 0.9

Limited Warranty: 5 Years\*

Replaces up to 400 PSMH

10,600L

20.900L (4000K).

21,100L (5000K)

77W

RECOMMENDED USE

Security

Perimeter

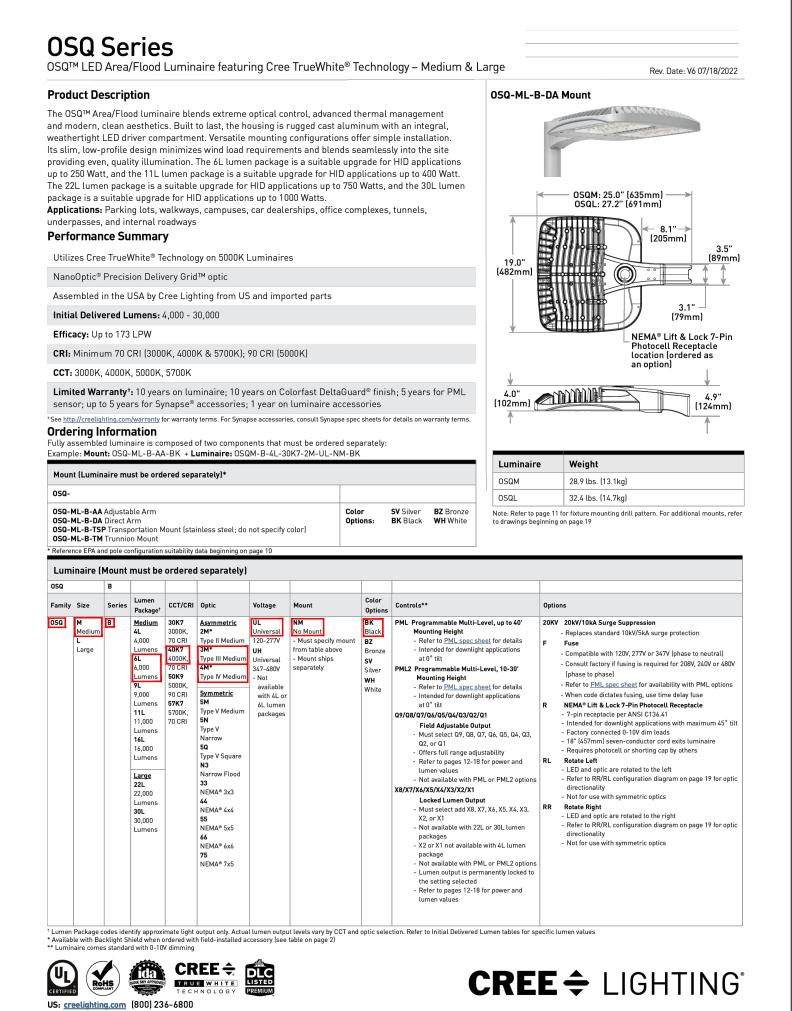
Commercial

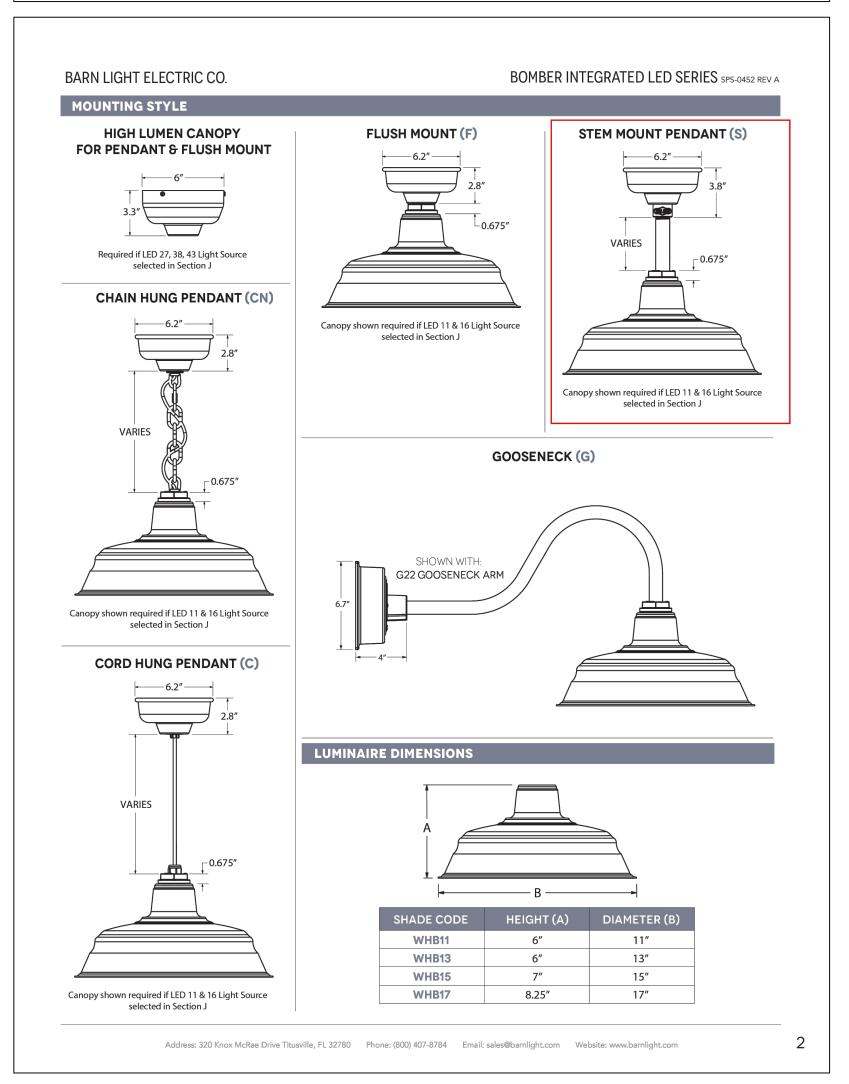
**LUMEN PACKAGE** 

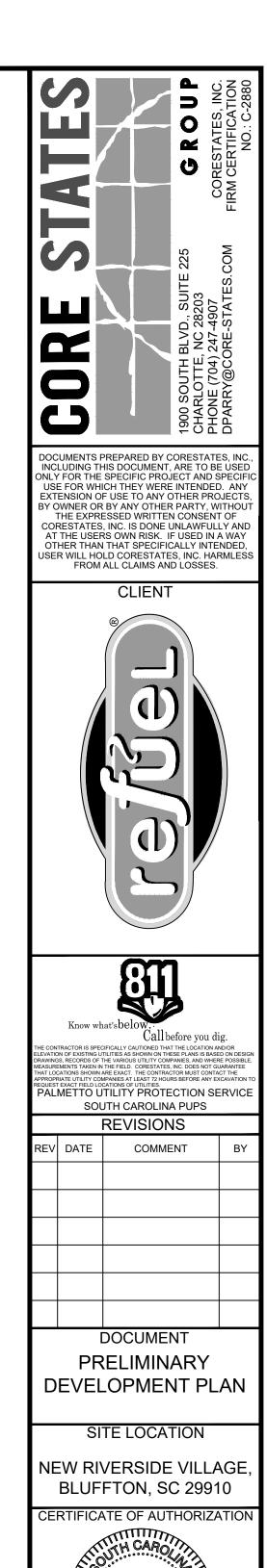
3000L (4000K), 3100L (5000K)

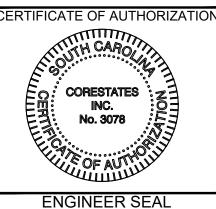
6200L (4000K), 6300L (5000K)

Total Harmonic Distortion: < 20%</li>









No.40407 EESS/ONA No.40407 EESS/ONA No.40407 EESS/ONA 05/30/2023 BRIAN SEARCY, PE

SC LICENSE #40407
SHEET TITLE

PROFESSIONAL ENGINEER

LIGHTING DETAILS

JOB #: RFL.35149

DATE: 05/25/2022

SCALE:

DRAWN BY: KB

CHECKED BY: BS

SHEET NO.

C19