

TREES IN THESE AREAS CANNOT BE SAVED DUE TO A 6'+ CHANGE IN ELEVATION FROM EXISTING TO PROPOSED ELEVATIONS

SOME OF THE CHERRY TREES MARKED FOR PRESERVATION APPEAR TO BE IN POOR CONDITION AND MAY REQUIRE REMOVAL FOR SAFETY CONCERNS OVER A PARKING AND PEDESTRIAN AREA.

\* NO MITIGATION IS REQUIRED FOR THE PROPOSED REGULATED TREES IN THIS TREE REMOVAL PLAN (SECTION 18-461).

\* TWO (2) SIGNIFIACNT TREES ARE PROPOSED FOR REMOVAL RESULTING IN 36 MITIGATION TREES REQUIRED. THE PRESERVED TREE CREDIT IS (34) RESULTING IN (2) TREES REQUIRED FOR MITIGATION. THESE TREES HAVE BEEN PROVIDED IN THE LANDSCAPING ALONG THE REAR SIDEWALK & GATHERING SPACE.

TREE PROTECTION FENCING (typ.)

(2) TREES TO BE RELOCATED. SPADE TREES AND STAGE THEM IN A PROTECTED LOCATION CLEAR OF ALL CONSTRUCTION ACTIVITIES. IF TREES ARE SPADED AND IMMEDIATELY REPLANTED IN THEIR NEW LOCATIONS, PROVIDE TREE PROTECTION FENCING.

TREE PROTECTION FENCING (typ.)

<b>TREES TO BE PRESERVED</b> Tree Save	<b>TREES TO BE REMOVED</b> Tree Remove
<b>SIGNIFICANT TREE</b>	

Proposed Significant Trees to be Removed				
Tree Name	# of Trees	DBH	% Mitigation	Total DBH
OAK	1	26	100	26
OAK	1	28	100	28
<b>Total DBH of Removed Significant Trees</b>			<b>=</b>	<b>54"</b>
<b>Total Trees Req. for Mitigation</b>		<b>Total DBH X 2X mitigation %</b>		<b>= 36</b>
				<b>3</b>

**Sec. 18-460 Mitigation: Significant trees.** The total number of replacement trees shall be determined by multiplying the total DBH of the removed significant trees by two (2) times the percentage for the type of tree in Table IV and dividing by three (3).

Credit for Preserved Trees (Sec. 18-448 Table)			
Preserved Trees	Count	Size (DBH)	Resulting Credit
OAK	2	8	16
OAK	1	10	10
OAK	1	11	11
OAK	1	14	14
OAK	1	21	21
OAK	1	27	27
MAPLE	1	8	8
MAPLE	1	9	9
CHERRY	0	8	0
CHERRY	1	9	9
CHERRY	1	10	10
CHERRY	1	12	12
PINE	1	17	17
PINE	0	12	0
<b>TOTAL CALIPER</b>			<b>= 164</b>
<b>Total resulting Credit for 19 Preserved Trees</b>			<b>= 27</b>

Proposed Regulated Trees to be Removed				
Tree Name	# of Trees	DBH	% Mitigation	Total DBH
OAK	4	8	100	32
OAK	3	9	100	27
OAK	4	10	100	40
OAK	2	11	100	22
OAK	3	12	100	36
OAK	1	13	100	13
OAK	1	15	100	15
OAK	3	16	100	48
OAK	3	17	100	51
OAK	2	19	100	38
OAK	1	20	100	20
OAK	1	21	100	21
OAK	1	22	100	22
PINE	1	12	100	12
PINE	2	13	100	26
PINE	1	14	100	14
PINE	1	15	100	15
PINE	1	16	100	16
PINE	2	19	100	38
PINE	1	24	100	24
CHERRY	3	8	50	12
CHERRY	5	9	50	22.5
CHERRY	3	10	50	15
CHERRY	2	11	50	11
CHERRY	2	12	50	12
CHERRY	1	13	50	6.5
CHERRY	1	14	50	7
CHERRY	1	15	50	7.5
CHERRY	1	20	50	10
MAGNOLIA	1	4	75	3
<b>Total DBH of Removed Regulated Trees</b>			<b>=</b>	<b>636.5</b>
<b>Total Trees Req. for Mitigation</b>		<b>Total DBH X mitigation %</b>		<b>= 211</b>
				<b>3</b>

**Sec. 18-460 Mitigation: Regulated trees.** The total number of replacement trees shall be determined for regulated trees removed by multiplying the total DBH of the removed regulated tree(s) by the percentage for the type of tree in Table IV and dividing by three (3).

**Section 18-461 Exceptions to Mitigation:** (b) Regulated trees removed within the area of disturbance necessary for essential site improvements are exempt from mitigation, provided the applicant has designed around trees in order to retain as many trees as practicable.

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

**Coastal Land Design, PLLC**  
 Civil Engineering / Landscape Architecture  
 Land Planning / Construction Management  
 NCBELS Firm License No. P-0269  
 P. O. Box 1172  
 Wilmington, NC 28402 www.cldesign.com Phone: 910-294-0202 Fax: 910-294-0202

**Approved Landscape Plan**  
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 # 2019086  
 SWP #: 2017032R3  
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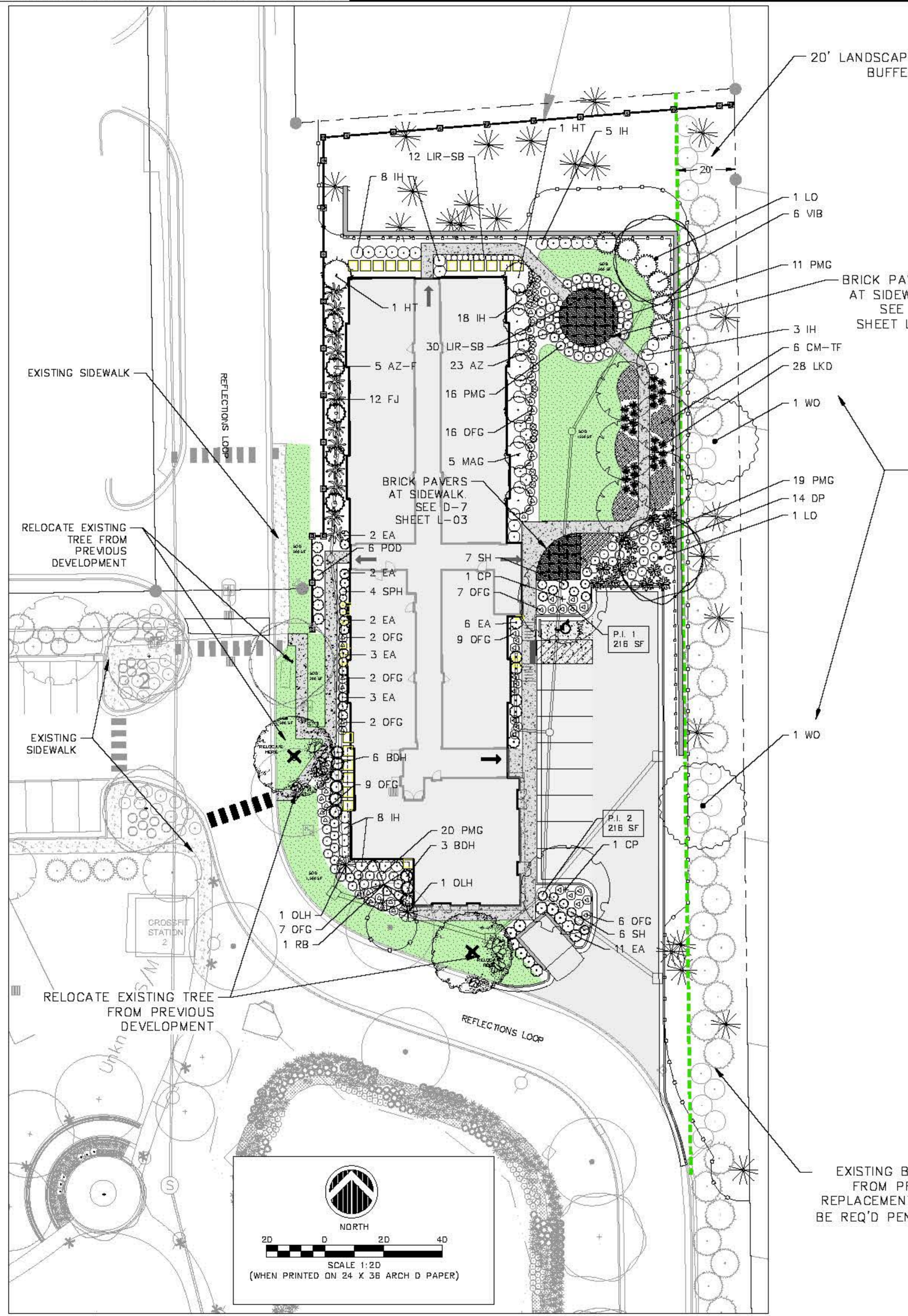
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**Wilmington, NC**



ADD #1 01-24-2020  
 ASI #5 9-3-2020  
 ASI #6 9-16-2020

PROJECT NUMBER  
**15678.02**  
 DATE  
**December 4, 2019**

LANDSCAPE  
**L-01**



**LANDSCAPE NOTES**

1. ALL LANDSCAPE MATERIAL MUST BE INSTALLED PRIOR TO FINAL BUILDING INSPECTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY AGENCY OR COMPANY.
3. CONTRACTOR SHALL NOT SUBSTITUTE FOR ANY OF THE PLANT MATERIAL THAT IS SPECIFIED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
4. VERIFICATION OF TOTAL QUANTITIES AS SHOWN IN THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. MULCH UNDER ALL PROPOSED TREES AND SHRUBS WITH SHREDDED HARDWOOD AT A 3"-4" DEPTH OR APPROVED EQUAL.
6. PLANT SIZES INDICATED SPECIFY MINIMUM ALLOWABLE SIZES AT PLANTING. WHERE CONTAINER AND HT. SIZES ARE INDICATED FOR A SINGLE SPECIES, BOTH SIZE REQUIREMENTS MUST BE MET.
7. THERE SHALL BE AT LEAST A 3 FT. SEPARATION BETWEEN LANDSCAPED AREAS AND PARKING AREAS TO ALLOW VEHICLE OVERHANG WHEN PARKING BLOCKS ARE NOT USED.
8. ALL PLANTINGS USED TO SCREEN THE DRIVES AND PARKING AREAS FROM ADJOINING ROADWAYS WILL NEED TO BE A MINIMUM OF 24" HIGH AT TIME OF PLANTING.
9. ALL OTHER AREAS NOT BEING MULCHED TO BE SEEDED PER SEEDING SCHEDULE INCLUDED AS PART OF THE S&E PLANS.
10. THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTING AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT BE LIMITED TO:
  - A. FERTILIZATION  
TREES SHRUBS AND GRASSED AREAS  
BROADCAST A SLOW RELEASE FERTILIZER OVER THE MULCHED BEDS AT THE RECOMMENDED RATES AS SHOWN ON THE BAGS, ONCE MID-FEBRUARY AND ONCE MID-SEPTEMBER.  
THOROUGH WATERING IS REQUIRED UPON COMPLETION.
  - B. PRUNING WITHIN LIMITS  
PRUNING WHEN NECESSARY, WILL BE DONE TO MAINTAIN THEIR NORMAL GROWTH PATTERN AND TO REMOVE DEAD OR DISEASED PLANT MATERIAL. THERE SHALL BE NO TOPPING OF TREES.
  - C. PEST CONTROL (OPTIONAL)  
WEED CONTROL TO BE PROVIDED EARLY FEBRUARY, APRIL, JUNE, AUGUST AND OCTOBER IN THE SHRUB/TREE BEDS AND IN THE LAWN AREAS. INSECT DAMAGE SHALL BE TREATED WHEN NECESSARY TO PREVENT DAMAGE TO VEGETATION.
  - D. MULCHING  
ALL AREAS AROUND THE BUILDING FOUNDATION AND SHRUB/TREE BEDS SHALL BE RE-MULCHED SO THAT THEY CONTAIN A MIN. DEPTH OF TWO INCHES AND A MAXIMUM DEPTH OF THREE INCHES. MULCH USED SHALL EQUAL WHICH WAS SUPPLIED DURING THE INSTALLATION OF THE PLANTS.
  - E. MOWING  
MOWING SHALL BE DONE AS NECESSARY TO KEEP GRASS AT THE APPROPRIATE HEIGHT TO INSURE A HEALTHY GROWTH PATTERN.
  - F. PROTECTION OF ROOT ZONES  
TREE/SHRUB ROOT ZONES SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION AND EQUIPMENT AS MUCH AS POSSIBLE TO AVOID DAMAGE OR COMPACTION TO THE ROOT AREAS.
  - G. WATERING SCHEDULE FOR IRRIGATION SYSTEM  
MAINTENANCE SHALL INCLUDE A THOROUGH INITIAL WATERING WITH WEEKLY WATERINGS THEREAFTER FOR THE FIRST 30 DAYS. WATERINGS THEREAFTER BE ON AN AS NEEDED SCHEDULE PER LOCAL CONDITIONS.
  - H. STAKE AT WIRE REMOVAL  
AT THE END OF THE FIRST YEAR ALL PLANT STAKING AND GUYS SYSTEMS SHALL BE REMOVED.
  - I. PROTECTED TREE REGULATION  
PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

**LANDSCAPE SCHEDULE**

SYMBOL	QUAN.	BOTANICAL NAME	COMMON NAME	CAL.	HT.	ROOT	REMARKS
<b>LARGE SHADE TREES</b>							
WO	2	<i>Quercus phellos</i>	Lacebark Elm	2"		BBB	
LO	2	<i>Quercus virginiana</i>	Live Oak	2"		BBB	
CP	2	<i>Platanus chinensis</i>	Chinese platyche	2"		BBB	
<b>SMALL SHADE TREES</b>							
CM-TF	6	*TREE FORM <i>Leguminosae Indica x faurii 'Muskogee'</i>	Tree form Muskogee Grape Myrtle		8-10'		TREE FORM
HT	2	<i>Ilex x attenuata 'Tingo'</i>	Holly Tingo		8-10'		
WAG	5	<i>Magnolia grandiflora 'Little Gem'</i>	Little Gem Magnolia		8-10'		
<b>SHRUBS</b>							
SH	13	<i>Ilex crenata 'Soft Touch'</i>	Soft Touch Holly			3 GAL	
AZ-F	5	<i>Rhododendron 'Formosa'</i>	Azalea Formosa			3 GAL	
AZ	23	<i>Rhododendron 'Gumpo White'</i>	Azalea Gumpo White			1 GAL	
EA	28	<i>Thuja occidentalis 'Smaragd'</i>	Emerald Green Arborvitae			7 GAL	
PHG	66	<i>Wahlenbergia capillaris</i>	Pink Wuhlygrass			1 GAL	48" O.C.
OFG	60	<i>Pennisetum orientale 'Karley Rose'</i>	Oriental Fountain Grass			1 GAL	
IH	42	<i>Rhopilepis Umbellata 'eleanor taber'</i>	Indian Hawthorn Eleanor Taber			3 GAL	
FJ	12	<i>Fatsia japonica</i>	Fatsia			3 GAL	
POD	6	<i>Podocarpus Macrophyllus 'mekl'</i>	Podocarpus			3 GAL	
VIB	6	<i>Viburnum Awabuki 'chinda'</i>	Viburnum Awabuki 'chinda'			7 GAL	
DP	14	<i>Sabal Minor</i>	Dwarf Palmetto			3 GAL	
SPH	4	<i>Ilex crenata 'Sky Pencil'</i>	Sky Pencil Holly			7 GAL	
OLH	2	<i>Ilex x 'Conaf'</i>	Oakleaf Holly		6-8'	15 GAL	
LKD	28	<i>Lomandra longifolia 'Katrinus Deluxe'</i>	Lomandra 'Katrinus Deluxe'			1 GAL	36" O.C.
BDH	28	<i>Ilex cornuta 'Burfordii Nana'</i>	Burford Dwarf Holly			3 GAL	
<b>GROUND COVER</b>							
SOD	5,000 SF	Emerald Zoala					
	230	<i>Liriope muscari 'Variegata'</i>	Variegated Liriope			8" POT	18" O.C.
LIR-SB	42	<i>Liriope 'Super Blue'</i>	Super Blue Liriope			1 GAL	24 O.C.

SHRUB NOTE: Shrubs planted as part of the landscaping requirements are to be a min. of 12" at planting.

EXISTING BUFFER PLANTINGS FROM PRIOR DEVELOPMT. REPLACEMENT PLANTINGS MAY BE REQ'D PENDING INSPECTION.

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 Civil Engineering / Landscape Architecture  
 Land Planning / Construction Management  
 NC CDS Firm License No. P0238  
 P.O. Box 1172  
 Wilmington, NC 28402  
 Phone: 910-204-8822  
 Fax: 910-204-8822

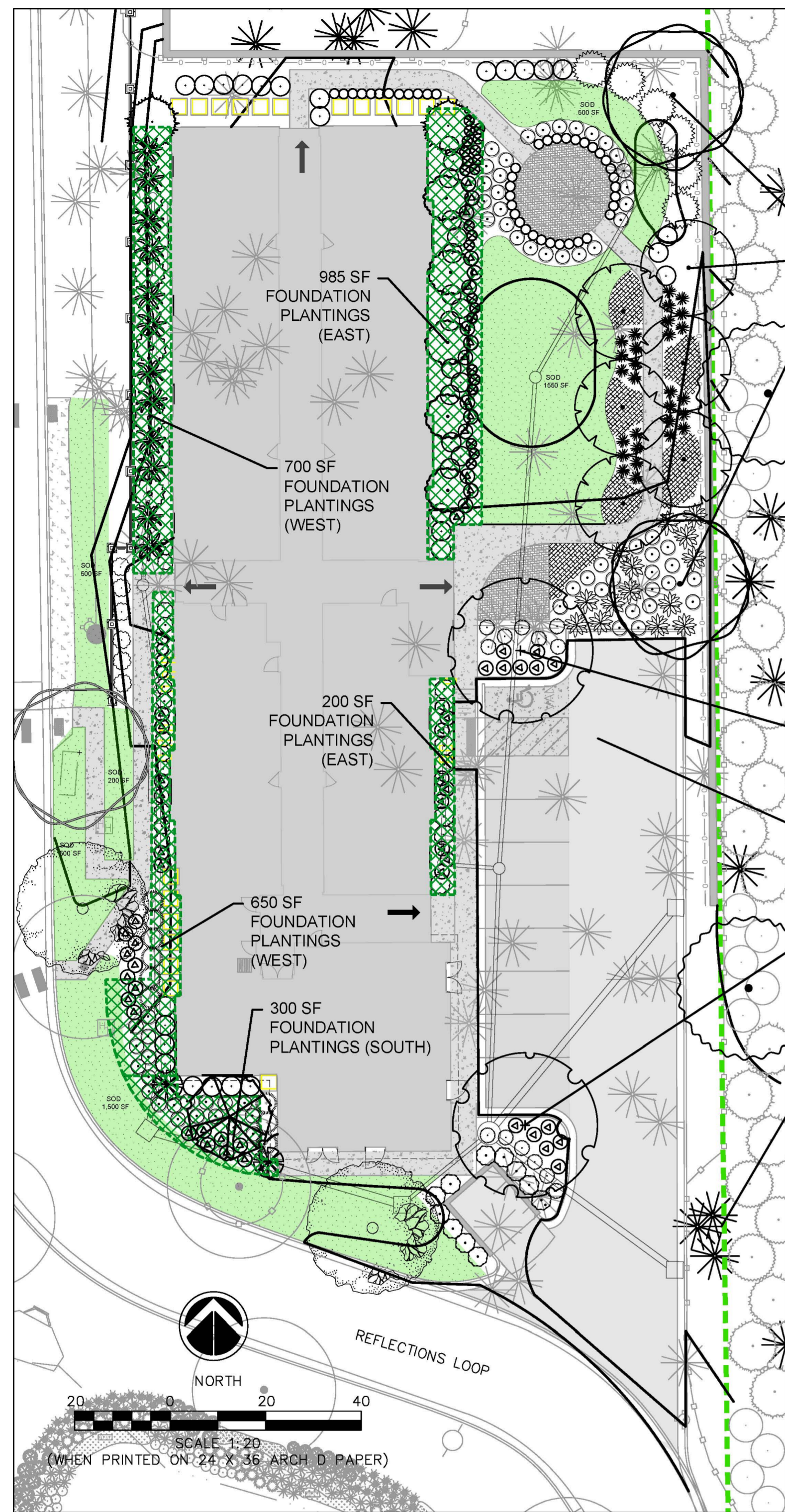
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**L-02**



### LANDSCAPE DATA

#### BUFFER YARDS

BUFFER YARD REQ. TO SCREEN ANY RESIDENTIAL USE FROM NON-RESIDENTIAL USES OR DISTRICTS  
20' BUFFER (375 LF)

REQUIRED:  
(1 TREE/30 LF AVG.) X 375 LF = 13 TREES

PROPOSED:  
11 EXISTING TREES + (2 NEW) = 13 TREES

EXISTING SHRUB SCRREN FROM PREVIOUS DEVELOPMENT.

#### SEC. 18-481 PARKING LOT LANDSCAPING

MIN. 20% PARKING AREA TO BE SHADED BY TREES  
PARKING & DRIVE AISLE = 5,500 SF  
REQ'D SHADED AREA.....1,100 SF  
PROV. SHADED AREA.....1,414 SF  
2 Large Shade Trees @ 707 SF EA.

#### SEC. 18-490 FOUNDATION PLANTINGS

SEE DET-4 THIS SHEET FOR CALCULATIONS  
REQ'D PAINTINGS.....1,566 SF  
PROV. PLANTINGS.....2,500 SF

#### LANDSCAPING NOTES:

LANDSCAPING BEYOND THAT REQUIRED TO BE COMPLIANT WITH ALL APPLICABLE CODES IS CONSIDERED ORNAMENTAL AND MAY BE OMITTED BY THE OWNER AT THEIR DISCRETION

ASI #6 9-16-2020  
(2) LIVE OAK TREES AND (6) CRAPE MYRTLE TREES TO BE COUNTED TOWARD MITIGATION.

WEST BUILDING ELEVATION  
AREA = 7,245 SF  
7,245 x 0.12 = 870 SF  
REQ'D = 870 SF  
PROV = 1,350 SF

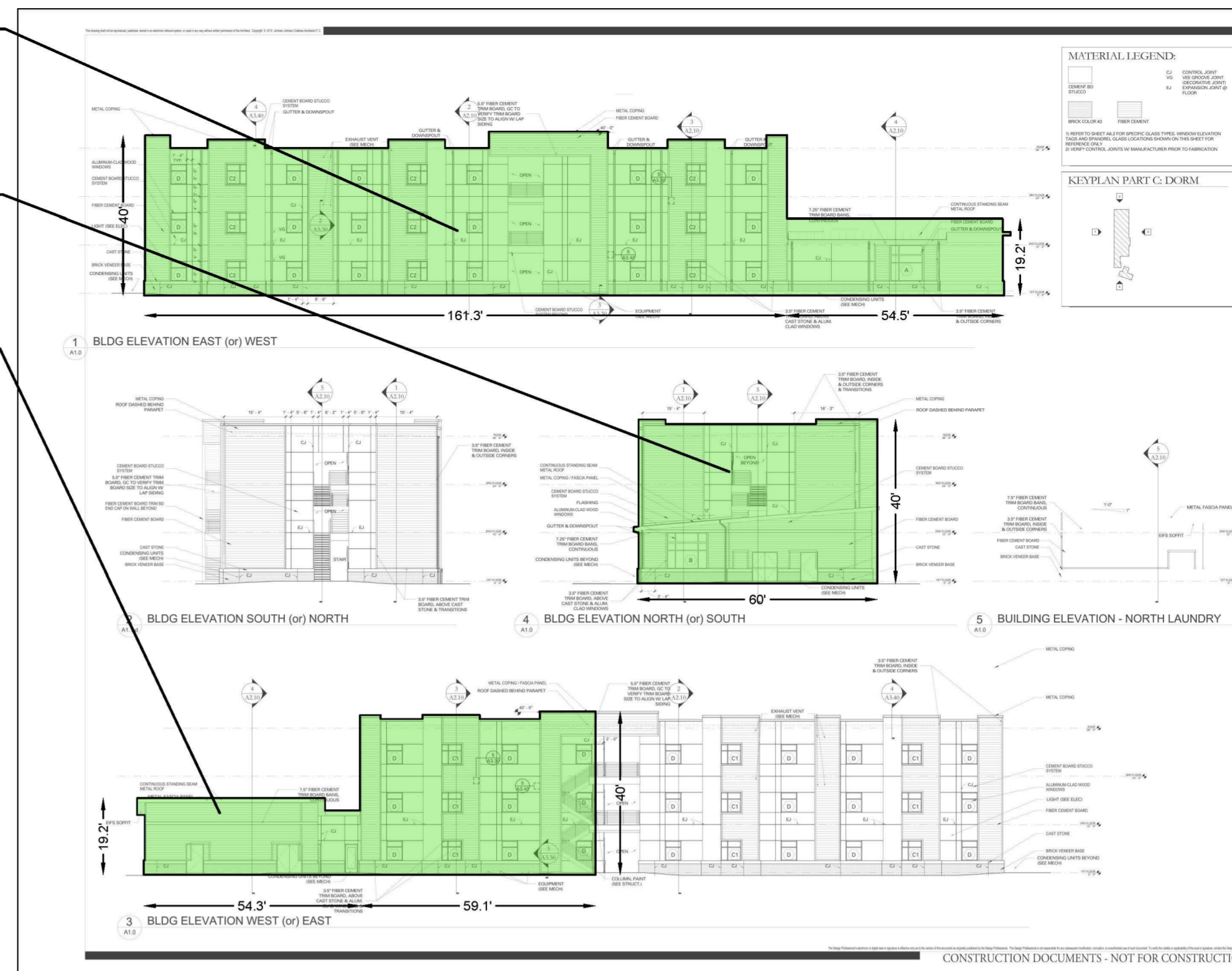
SOUTH BUILDING ELEVATION  
AREA = 2,423 SF  
2,423 x 0.12 = 291 SF  
REQ'D = 291 SF  
PRO = 300 SF

EAST BUILDING ELEVATION  
AREA = 3,378 SF  
3,378 x 0.12 = 405 SF  
REQ'D = 405 SF  
PRO = 1,185 SF

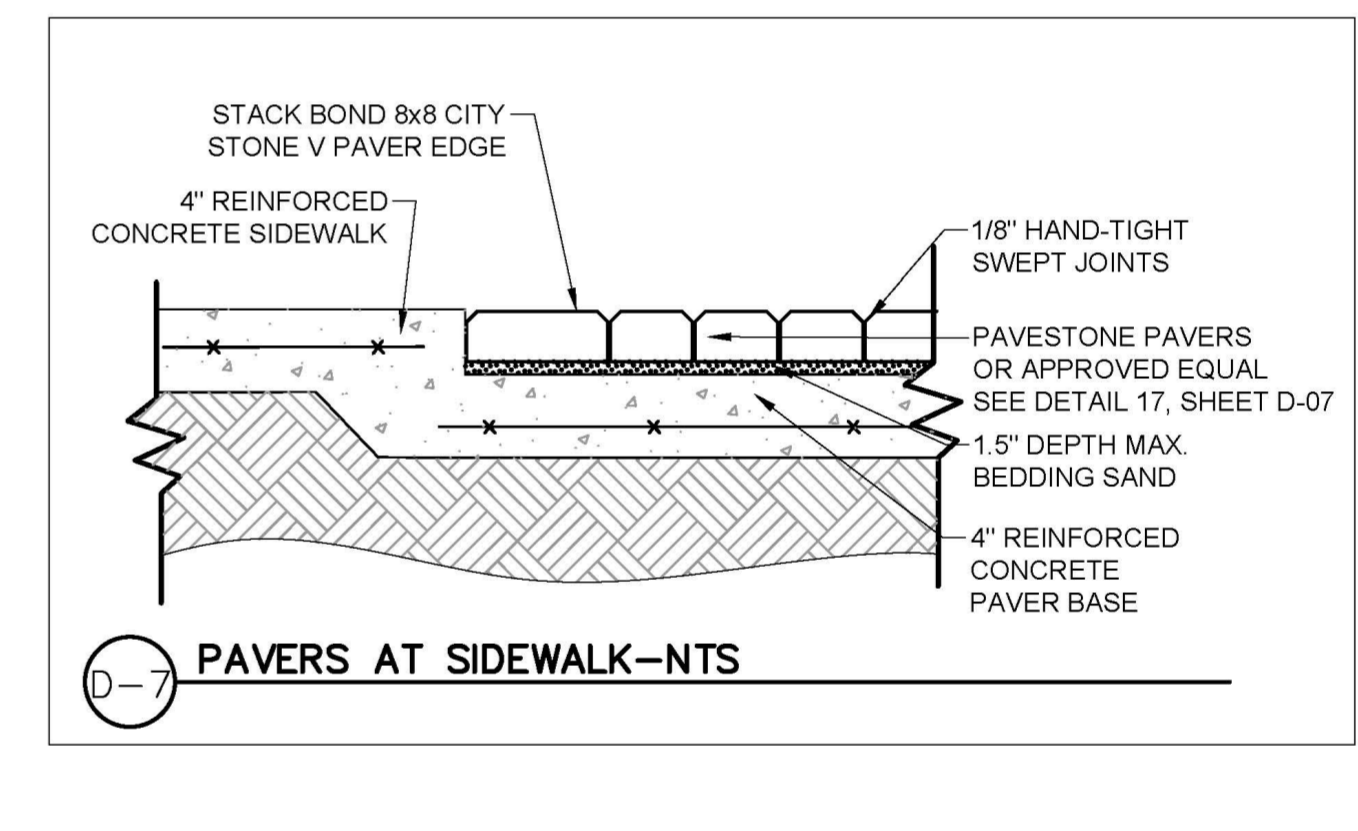
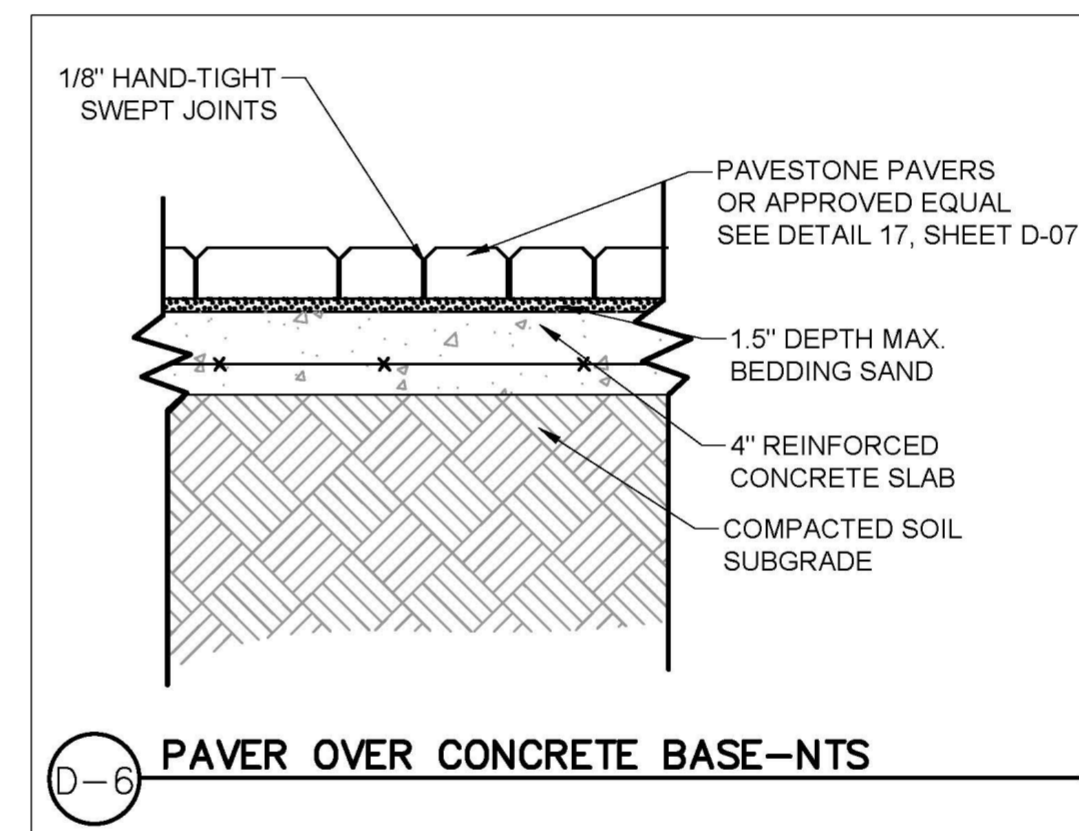
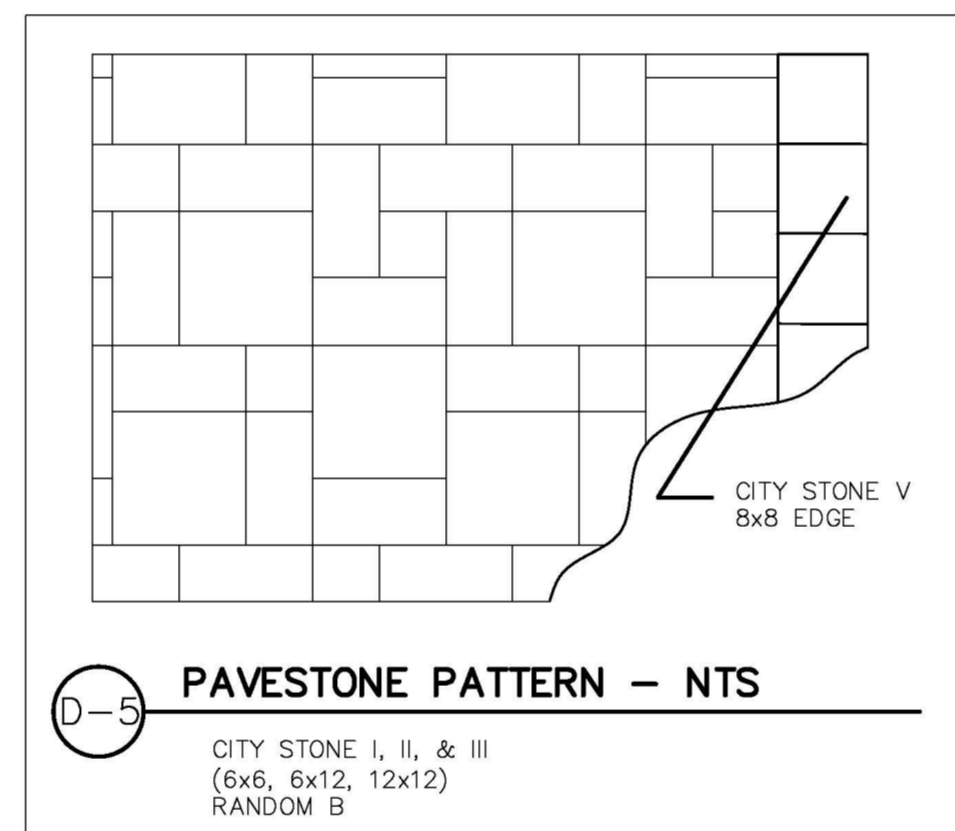
#### TOTAL LANDSCAPING AREA

REQUIRED = 1,566 SF

PROVIDED = 3,650 SF

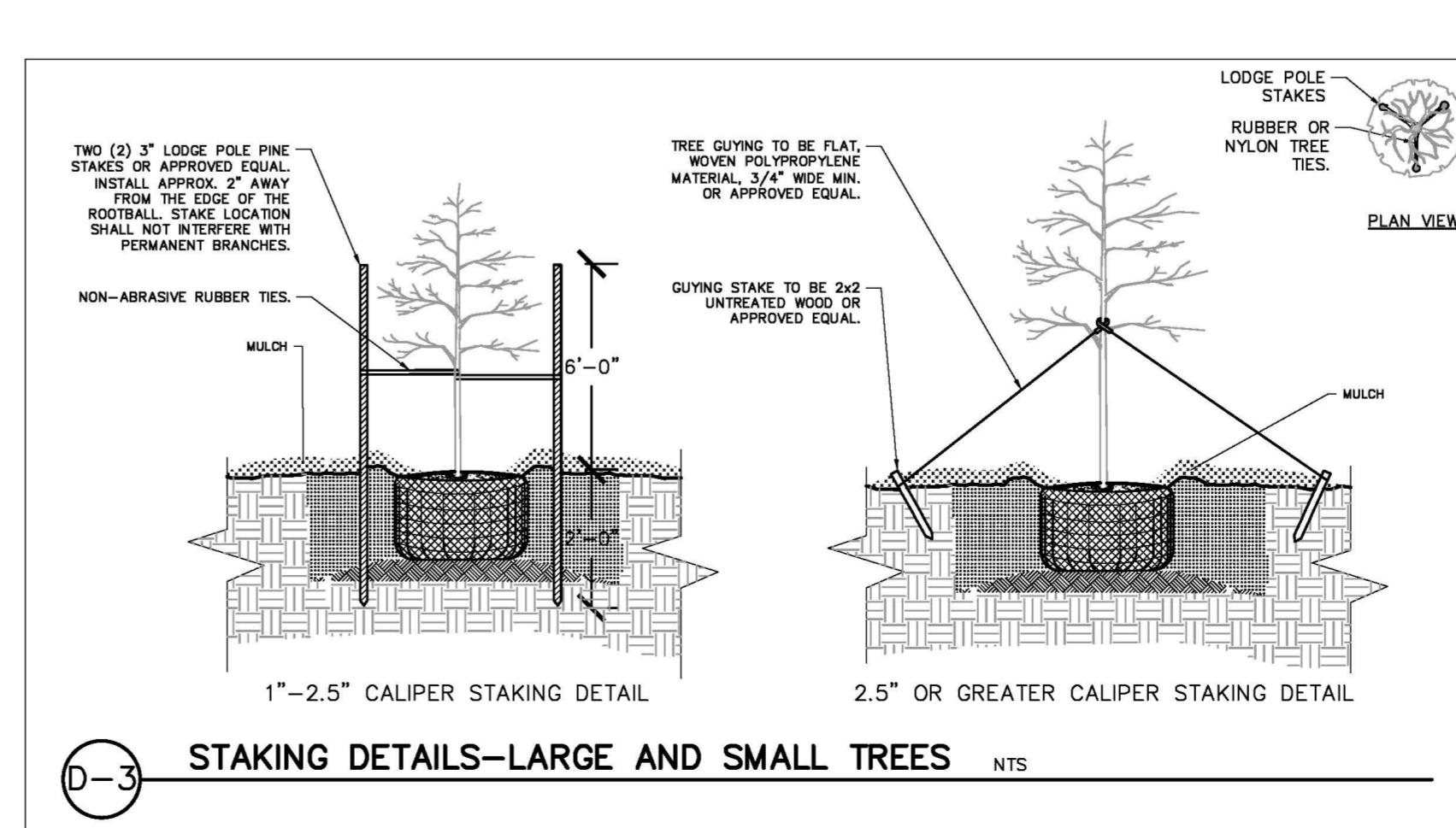
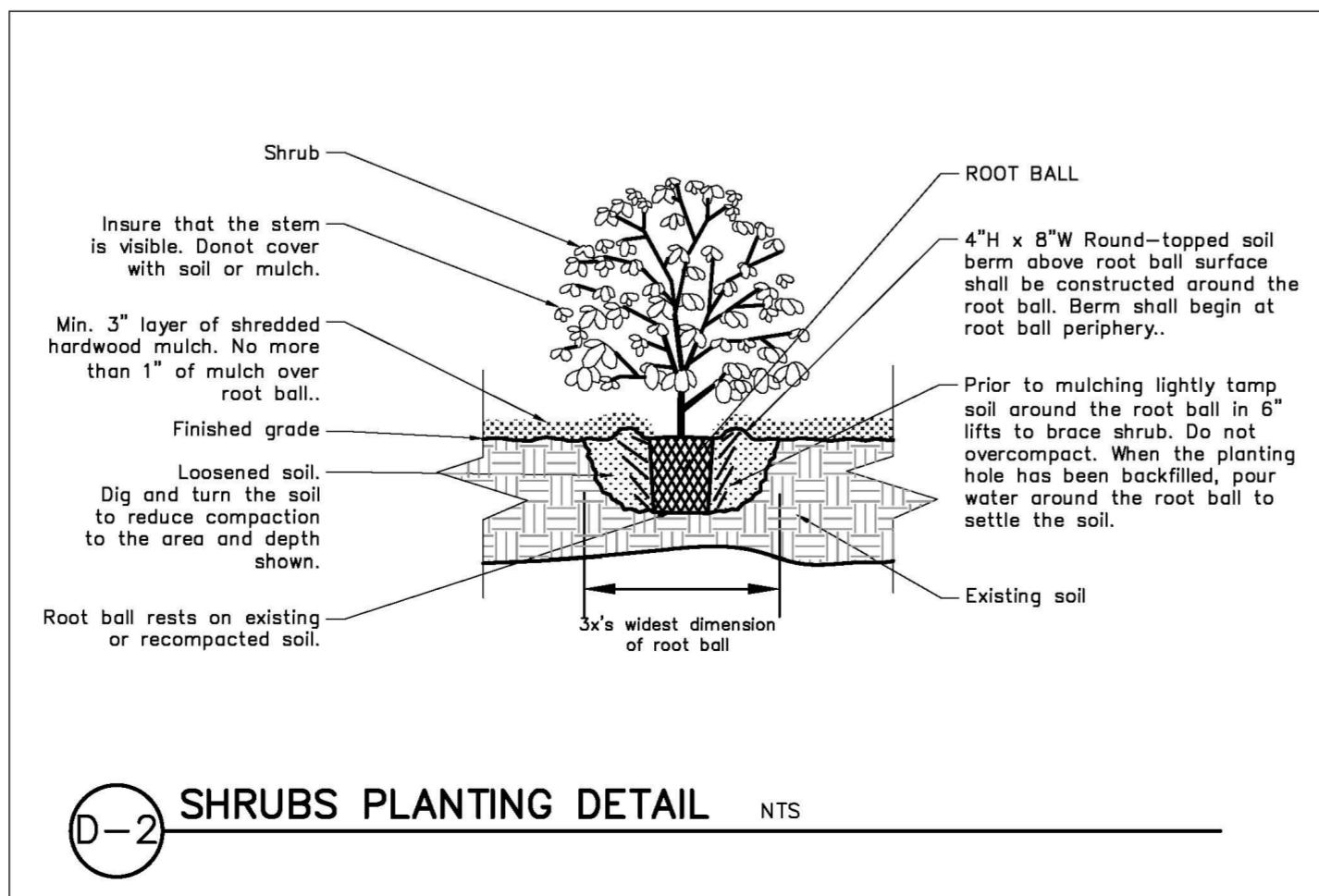
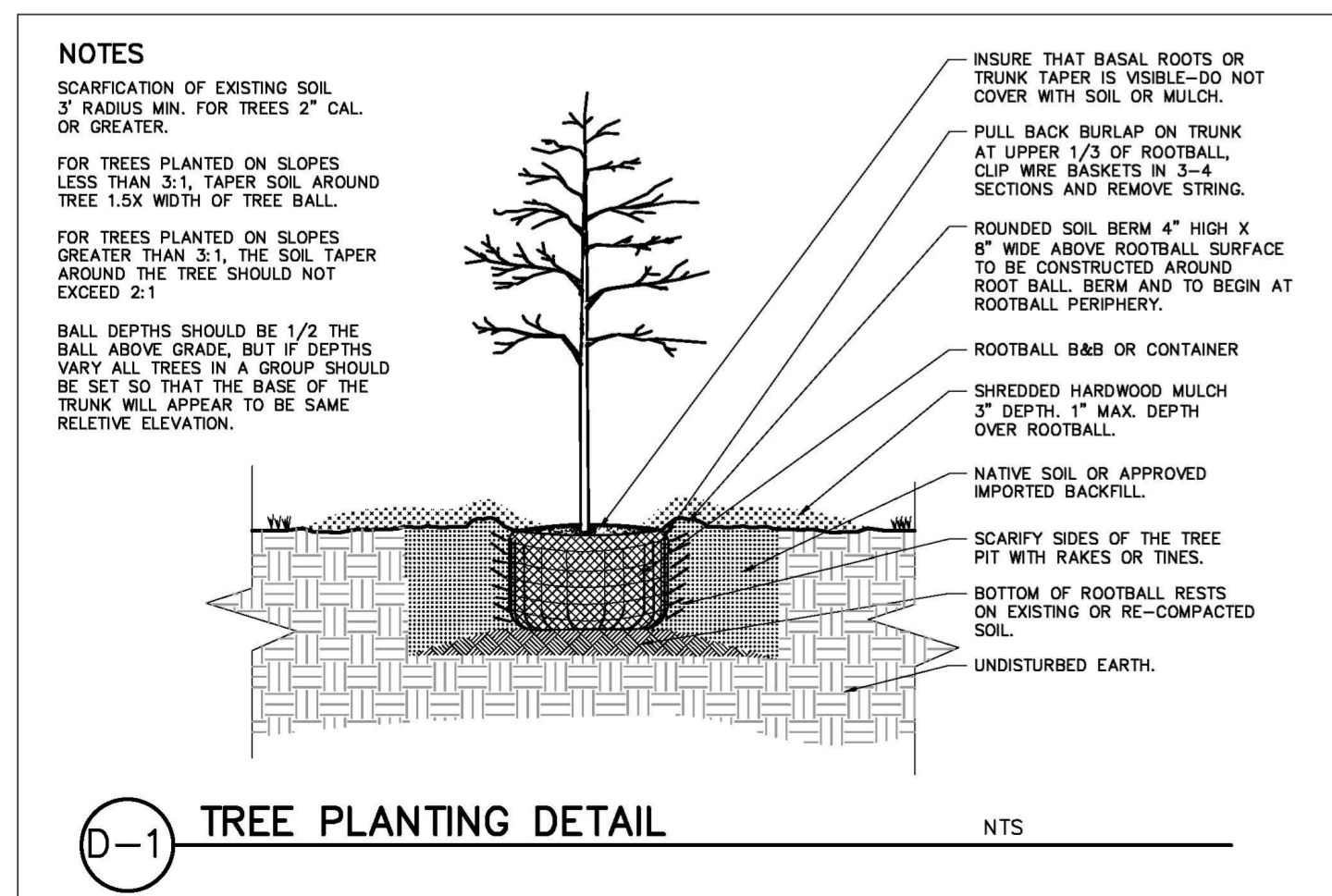


#### D-4 BUILDING FACADE LANDSCAPING CALCULATIONS SCALE: 1"=30" (WHEN PRINTED ON 24" x 36" SHEET)



#### \* PAVER NOTE:

PAVERS TO MATCH THOSE USED THROUGHOUT THE REST OF THE WTC CAMPUS.



**Coastal Land Design, PLLC**  
Civil Engineering / Landscape Architecture  
Land Planning / Construction Management  
NCBELS Firm License No. P-0369  
P.O. Box 1172 Wilmington, NC 28402 Phone: 910-254-6933 Fax: 910-254-0502

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