CITY OF WILMINGTON STANDARD NOTES

- 1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO ENSURE 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.
- 15. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, OR CURBING WILL BE REPLACED.
- 16. CONTACT TRAFFIC ENGINEERING 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 FREEZE SENSOR.
- 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.

22. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON

- 24. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE SIGHT DISTANCE TRIANGLE.
- 25. CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING, OR GRADING
- 26. CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN ROW.

FIRE & LIFE SAFETY NOTES

- 1. THE TYPE OF BUILDING CONSTRUCTION ACCORDING TO THE INTERNATIONAL BUILDING CODE SHALL BE TYPE 5B SPRINKLED.
- 2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
- 3. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
- 4. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FIRE HYDRANTS. A 3-FOOT CLEAR
- SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT.
- 5. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- 6. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION (910-343-0696).
- 7. ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM MUST BE ELECTRONICALLY SUPERVISED.
- 8. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL MULTI-STORY COMMERCIAL BUILDINGS AND ALL SINGLE STORY COMMERCIAL BUILDINGS EXCEEDING 7500 SF. THE STUDY SHALL DEMONSTRATE THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
- 9. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- 10. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.

LEGEND

EX WATER MAIN — → ⊢ — EX FORCE MAIN → — → EX CONTOURS 14 15 SILT FENCE -DISTURBED AREA —————

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

OPEN SPACE CALCULATIONS (35% OF PROJECT MIN) 149,986 SF X 35% = 52,495 SF (62,028 SF PROVIDED)OPEN SPACE IS TOTAL PROJECT AREA (149,986 SF) LESS: BUA (80,683 SF), LANDSCAPE ISLANDS (5,763 SF), AND FOUNDATION PLANTINGS (1,512 SF) = 62,028 SF

52,495 SF X 50% = 26,248 SF (31,919 SF PROVIDED)

RECREATION SPACE (50% OF REQUIRED OPEN SPACE MIN)

ACTIVE REC SPACE (50% OF RECREATION SPACE MIN) 26,248 SF X 50% = 13,124 SF (14,516 SF PROVIDED)

PASSIVE REC SPACE (50% OF RECREATION SPACE MIN) 26,248 SF X 50% = 13,124 SF (17,403 SF PROVIDED)n/f Michael G. Fuller D.B. 6116-2350 Zoning: R-10 Land Use: Residential Martha L. Dillon D.B. 5978-525 Zoning: R-10 Land Use: Residential PROPOSED Bobby Lester 12 UNIT D.B. 5298-922 Zoning: R-10 BUILDING #4 Land Use: Residential 00,I Ada Louise Hinson Lester D.B. 2006-263 Zoning: R-10 Land Use: Residential Mildred Patricia Craig Heirs D.B. 1876-529 Land Use: Residential Joseph Freeman, Jr. Rev. Trust D.B. 5612-1238 Zoning: R-10 Land Use: Residential Bruce & Gloria Umstetter D.B. 1911-705 Zoning: R-10 Land Use: Vacant

IN ACCORDANCE WITH CD-7-1214-M520, THE FOLLOWING CONDITIONS SHALL APPLY:

N ACCORDANCE WITH CD-7-1214-M520, THE FOLLOWING CONDITIONS SHALL APPLY:

THE USE AND DEVELOPMENT OF THE PROPERTY SHALL COMPLY WITH ALL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE, THE CITY OF WILMINGTON TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL, AND ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL LAW, ORDINANCE OR REGULATION, AS WELL AS ANY CONDITIONS STATED BELOW. IN THE EVENT OF CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGHER STANDARD SHALL APPLY.

APPROVAL OF THIS CONDITIONAL DISTRICT REZONING DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. FINAL APPROVAL BY THE TECHNICAL REVIEW COMMITTEE AND THE ISSUANCE OF ALL REQUIRED PERMITS MUST OCCUR PRIOR TO RELEASE OF THE PROJECT FOR CONSTRUCTION.

IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.

THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL BE IN ACCORDANCE WITH THE SITE PLAN AND ELEVATION APPROVED BY CITY COUNCIL.

A PEDESTRIAN CONNECTION SHALL BE INSTALLED BETWEEN THE ADJACENT MUST BE RETAINED OR MITIGATED AND ALL SIGNIFICANT TREES LOCATED OUTSIDE OF PROPOSED BUILDING FOOTPRINTS (UP TO A 25% LOT COVERAGE) SHALL BE RETAINED.

A PEDESTRIAN CONNECTION SHALL BE INSTALLED BETWEEN THE ADJACENT MUST BE RETAINED OR MITIGATED AND ALL SIGNIFICANT TREES LOCATED OUTSIDE OF PROPOSED BUILDING FOOTPRINTS (UP TO A 25% LOT COVERAGE) SHALL BE RETAINED.

A MINIMUM OF 4 BICYCLE PARKING SPACES SHALL BE PROVIDED ON THE SITE.

EXTERIOR SITE LIGHTING PLAN SHALL BE SUBBINITED PRIOR TO CONSTRUCTION RELEASE.

ANY FREESTANDING SIGN(S) ON THE SITE SHALL BE WONUMENT STYLE WITH LANDSCAPING AROUND THE BASE OF THE SIGN; NO POLE SIGNS S

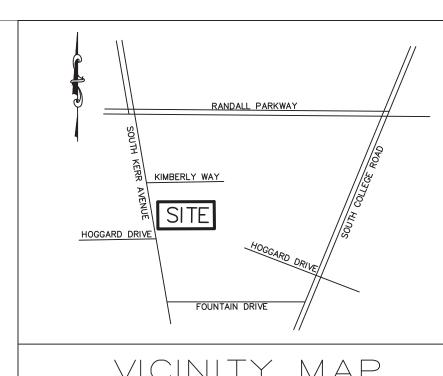
- COMBUSTIBLE EXTERIOR CONSTRUCTION.

 13. ALL APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS SHALL BE FOLLOWED

UTILITY CALCULATIONS EXISTING SEWER FLOW: 360 GPD PER 3 BR UNIT X 24 = 8,640 GPD EXISTING WATER DEMAND: 400 GPD PER UNIT X 24 = 9,600 GPD ADDITIONAL SEWER FLOW: 360 GPD PER 3 BR UNIT X 24 = 8,640 GPD ADDITIONAL WATER DEMAND: 400 GPD PER UNIT X 24 = 9,600 GPD

n/f Beach Haven, LLC D.B. 4939-563 Zoning: MD-17 Land Use: Multifamily PROPOSED 12 UNIT BUILDING #3 R05511-002-015-000 R05511-002-014-000 Glen G, LLC D.B. 5905-2373 Zoning: MD-17 Land Use: Vacant R05511-002-016-000 AMENITY EX 12 UNIT BUILDING #2 619 EX 12 UNIT BUILDING #1 Board of Trustees of Endowment D.B. 5783-724 Zoning: R-10 Land Use: University Parking Lot NOTES

- 1. EXISTING FEATURES AND BOUNDARY DATA BY STROUD ENGINEERING, P.A..
- 2. NO WETLANDS OR SURFACE WATERS EXIST WITHIN OR ADJACENT TO THE PROJECT AREA.
- 3. THE PROJECT IS OUTSIDE THE 100 YEAR FLOOD ZONE PER FIRM PANEL 3720313700K.
- 4. AN NHC EROSION CONTROL PERMIT IS REQUIRED FOR PROJECTS DISTURBING MORE THAN 1 ACRE. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS NOTED ON THE PLANS.
- 5. NCDEQ AND CITY OF WILMINGTON STORMWATER PERMITS ARE SHALL BE REQUIRED PRIOR TO BEGINNING WORK.
- 6. NO WATER OR SEWER MAIN EXTENSIONS ARE PROPOSED. CFPUA PLAN APPROVAL SHALL BE REQUIRED PRIOR TO BEGINNING WORK.
- 7. CITY OF WILMINGTON FIRE SERVICES AND CFPUA APPROVAL IS REQUIRED FOR PRIVATE FIRE LINE
- 8. NO EXTENSIONS OF PUBLIC OR PRIVATE RIGHTS OF WAY ARE PROPOSED. CITY OF WILMINGTON PLAN APPROVAL SHALL BE REQUIRED PRIOR TO BEGINNING WORK.
- SOLID WASTE REMOVAL BY PRIVATE CONTRACTOR.
- 10. PHASE 2 SHALL NOT EXCEED 72 BEDROOMS.



VICINITY MAP

SITE DATA

MAP BOOK/PAGE

PARCEL ID-

ZONINGMD-17 (CD CAMA LUC PROPERTY AREA) (CD-7-1214-M520 URBAI 3.44 A0 149,986 SI
BUA BUILDING SIDEWALKS PARKING/DRIVE AISLE	•
BUA BUILDING SIDEWALKS PARKING/DRIVE AISLE RESERVE TOTAL NEW BUA EXISTING RETAINED REMOVED BUA TOTAL NEW+RETAINED BUA	31,939 Si 48,657 SI 4,428 SI 1.85 A0
TOTAL NEW+RETAINED BUA % OF PROPERTY TOTAL BUILDING COVERAGE DISTUBANCE LIMITS RECIEVING STREAM CLASSIFICATION STREAM INDEX SOIL TYPES PROPOSED USE ALLOWABLE DENSITY PROPOSED UNITS PROPOSED UNITS PROPOSED DENSITY TOTAL SQUARE FOOTAGE NUMBER OF STORIES MINIMUM LOT AREA MAXIMUM BLDG HEIGHT PROPOSED BLDG HEIGHT MINIMUM FRONT YARD MINIMUM SIDE YARD MINIMUM REAR YARD	53.7 % 53.7 % 12.4 % 1.0 A(BURNT MILL CREEN C; SV
STREAM INDEX SOIL TYPES SEAGATE, PROPOSED USE ALLOWABLE DENSITY PROPOSED UNITS	18-74-63-2 BAYMEADE, PANTEGO RESIDENTIAL 17 UNITS/AC
PROPOSED DENSITY TOTAL SQUARE FOOTAGE NUMBER OF STORIES MINIMUM LOT AREA MAXIMUM BLDG HEIGHT	14 UNITS/ACRI
MINIMUM FRONT YARD MINIMUM SIDE YARD MINIMUM REAR YARD	35

PARKING CALCULATIONS

2.25 SPACES PER 3 BR UNIT X 48 = 108 (MIN) 2.5 SPACES PER 3 BR UNIT X 48 = 120 (MAX)25% INCREASE (30 SPACES) ALLOWED WITH PERVIOUS PAVEMENT

27 ADDITIONAL SPACES PROVIDED 27 SPACES (MIN) SHALL BE CONSTRUCTED OF PERVIOUS PAVEMENT

30 PERVIOUS SPACES PROVIDED (15 EX AND 15 PROPOSED) 147 SPACES PROVIDED (75 EX AND 72 PROPOSED) 48 BIKE SPACES PROVIDED (24 EX AND 24 PROPOSED) 5 ADA SPACES REQUIRED, 6 PROVIDED. ALL EXISTING AND PROPOSED ADA SPACES ARE VAN ACCESSIBLE

VEHICLE TRIP GENERATION

THE ITE TRIP GENERATION MANUAL PROVIDES THE FOLLOWING ESTIMATES OF TRIPS:

EXISTING APARTMENTS (ITE CODE 220) W/ 24 DWELLING UNITS:

AM PEAK HOUR TRIPS: 12 PM PEAK HOUR TRIPS: 15 DAILY TRIPS: 160

PROPOSED APARTMENTS (ITE CODE 220) W/ 24 DWELLING UNITS:

AM PEAK HOUR TRIPS: 12 PM PEAK HOUR TRIPS: 15

REMOVE 2 SINGLE FAMILY DWELLINGS: (ITE CODE 210)

AM PEAK HOUR TRIPS ELIMINATED: PM PEAK HOUR TRIPS ELIMINATED: DAILY TRIPS ELIMINATED: 19

NET TOTAL (NET CHANGE):

AM PEAK HOUR TRIPS: 22 (+10) PM PEAK HOUR TRIPS: 28 (+13) DAILY TRIPS: 301 (+141)

A TRAFFIC IMPACT ANALYSIS IS NOT PROPOSED.

SHEET INDEX

COVER TREE PROTECTION, EROSION CONTROL, & DEMOLITION PLAN-LANDSCAPING GRADING AND DRAINAGE UTILITIES ROADWAY INVENTORY

GRAPHIC SCALE: 1" = 30'

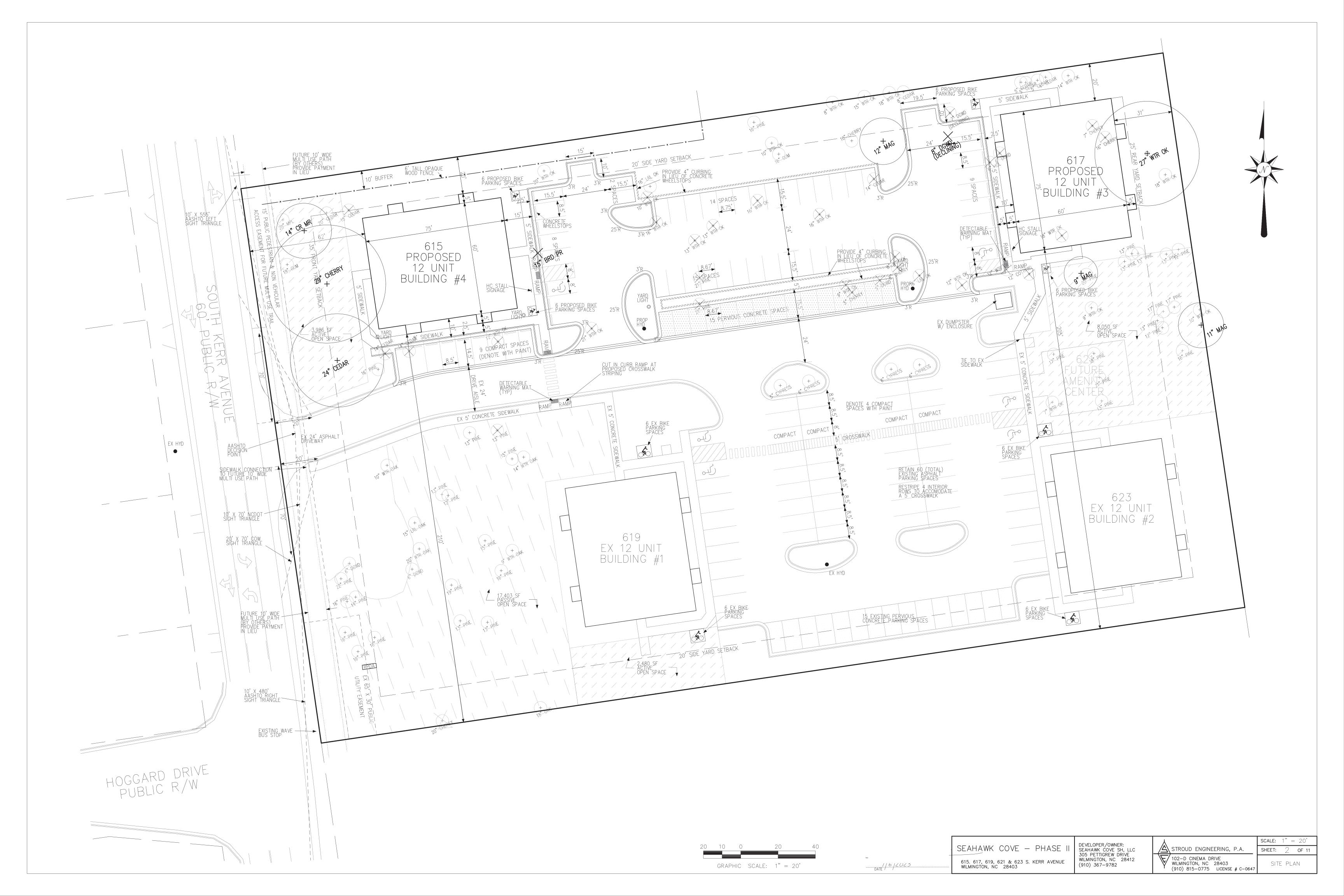
7/6/2023 DATE

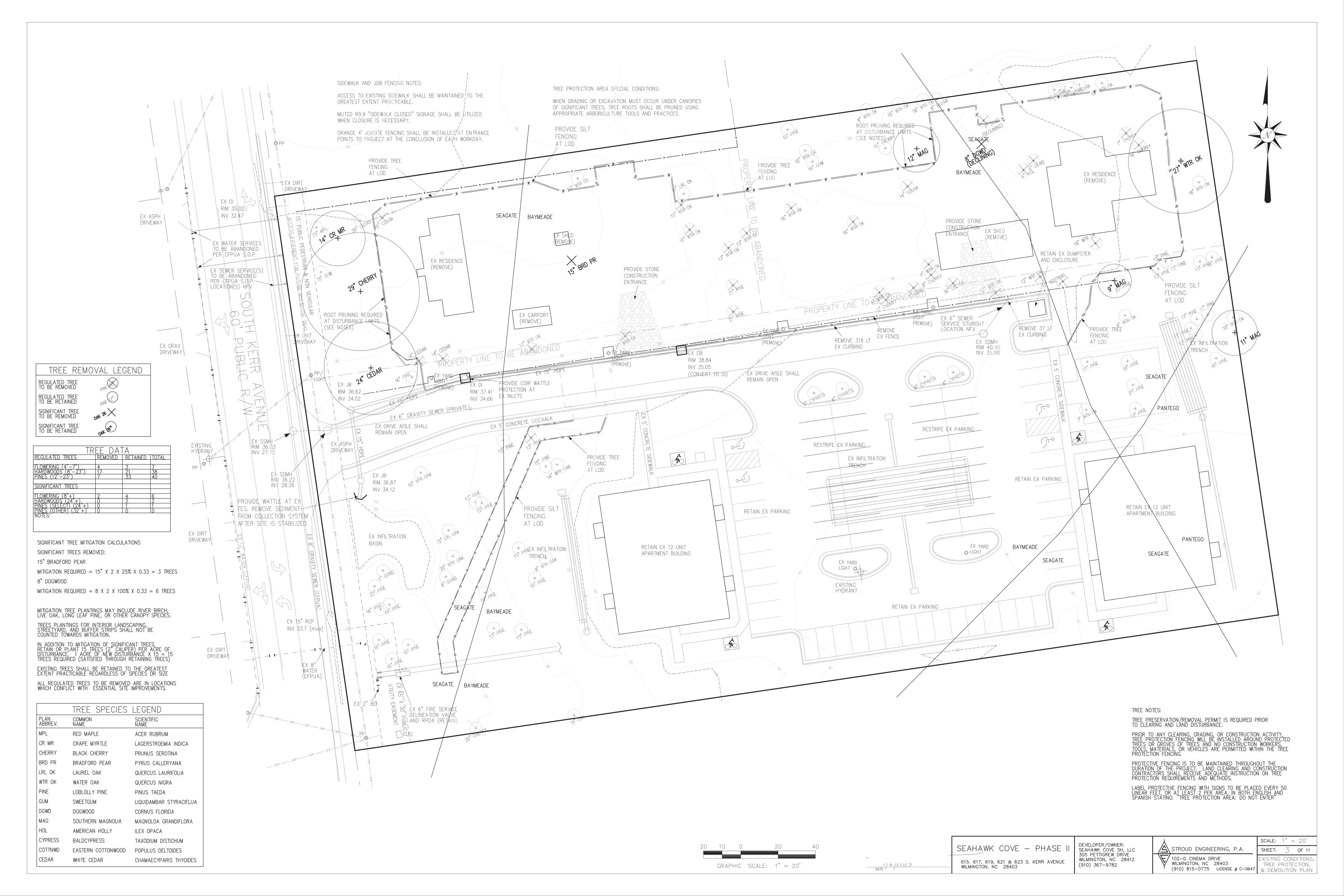
SEAHAWK COVE - PHASE 615. 617, 619, 621 & 623 S. KERR AVENUE WILMINGTON, NC 28403

SEAHAWK ĆOVE SH, LLC 305 PETTIGREW DRÍVE WILMINGTON, NC 28412 (910) 367-9782

STROUD ENGINEERING, P.A. 102-D CINEMA DRIVE WILMINGTON, NC 28403 (910) 815-0775 LICENSE # C-0647

SCALE: 1" = 30'SHEET: 1 OF 11 COVER





SIGNIFICANT TREE MITIGATION CALCULATIONS SIGNIFICANT TREES REMOVED: 15" BRADFORD PEAR

MITIGATION REQUIRED = 15" X 2 X 25% X 0.33 = 3 TREES 8" DOGWOOD

MITIGATION REQUIRED = 8 X 2 X 100% X 0.33 = 6 TREES

30 FT FACADE HEIGHT X 75 LF OF FACADE ADJACENT TO PARKING/DRIVE AISLE =

30 FT FACADE HEIGHT X 135 LF OF FACADE ADJACENT TO PARKING/DRIVE AISLE =

2,250 SF X 12% = 270 SF REQUIRED (295 SF PROVIDED)

4,050 SF X 12% = 486 SF REQUIRED (562 SF PROVIDED)

BUILDING #3-

BUILDING #4-

TR	REE DAT	ΓA	
REGULATED TREES	REMOVED	RETAINED	TOTAL
FLOWERING (4"-7") HARDWOODS (8"-23")	4	3	7
HARDWOODS (8"-23") PINES (12"-23")	7	33	40
SIGNIFICANT TREES			
FLOWERING (8"+)	2	4	6
HARDWOODS`(24"+) PINES (SELECT) (24"+) PINES (OTHER) (32"+)	0	1	1
NOTES:	10	1 0	10

TREE REMOVAL LEGEND
REGULATED TREE TO BE REMOVED
REGULATED TREE TO BE RETAINED
SIGNIFICANT TREE TO BE REMOVED ON TO
SIGNIFICANT TREE TO BE RETAINED ON
SIGNIFICANT TREE (+)

LIVE OAK, LONG LEAF PINE, OR OTHER CANOPY SPECIES.	TO BE RETAINED ON TO BE RETAINED	TO OK 15" WER OK 18" W
TREES PLANTINGS FOR INTERIOR LANDSCAPING, STREETYARD, AND BUFFER STRIPS SHALL NOT BE COUNTED TOWARDS MITIGATION.	RETAIN AND UTILIZE EXISTING VEGETATION FOR SCREENING IN THE 10' BUFFER.	THE USE OF PINE STRAW AS GROUND COVER
IN ADDITION TO MITIGATION OF SIGNIFICANT TREES, RETAIN OR PLANT 15 TREES (2" CALIPER) PER ACRE OF DISTURBANCE. 1 ACRE OF NEW DISTURBANCE X 15 = 15 TREES REQUIRED (SATISFIED THROUGH RETAINING TREES)	PROVIDE 250 LF OF 6 TALL OPAQUE WOOD FENCE ALONG 10' BUFFER LINE	THE USE OF PINE STRAW AS GROUND COVER SHALL BE PROHIBITED WITHIN 10' OF ANY COMBUSTIBLE EXTERIOR CONSTRUCTION. W/W (6) CRAPE MYRTLES THE USE OF PINE STRAW AS GROUND COVER SHALL BE PROHIBITED WITHIN 10' OF ANY COMBUSTIBLE EXTERIOR CONSTRUCTION.
EXISTING TREES SHALL BE RETAINED TO THE GREATEST EXTENT PRACTICABLE REGARDLESS OF SPECIES OR SIZE	RETAIN AND UTILIZE EXISTING VEGETATION FOR SCREENING IN THE 10' BUFFER.	10" WHE OAK LIVE OAK LIVE OAK
ALL REGULATED TREES TO BE REMOVED ARE IN LOCATIONS WHICH CONFLICT WITH ESSENTIAL SITE IMPROVEMENTS.	X X X X X X X X X X X X X X X X X X X	PROPOSED 12 UNIT
	THE USE OF PINE STRAW AS GROUND COVER SHALL **BE** PROHIBITED WITHIN 10' OF ANY COMBUSTIBLE EXTERIOR CONSTRUCTION. 232 SF LANDSCAPE ISLAND W/ ISLAND W/ LIVE OAK	HANDSCAPE ISLAND W/ LIVE OAK EACH LANDSCAPE ISLAND SHALL CONTAIN NEW OR RETAINED TREE(S) AS NOTED ALONG
	* BE PROHIBITED WITHIN 10' OF ANY COMBUSTIBLE 232 SF LANDSCAPE ISLAND W/ RETAINED 20" WATER OAK **WATER OAK** **WATER OAK**	EACH LANDSCAPE ISLAND SHALL CONTAIN NEW OR RETAINED TREE(S) AS NOTED ALONG WITH GROUNDCOVER CONSISTING OF ASIATIC JASMINE PLANTED AT A RATE OF 4 PER 100 SF.
	MITIGATE 15" BRADFORD PEAR W/ (3) CRAPE MYRTLES 216 SF LANDSCAPE ISLAND W/ LIVE OAK	
	615 PROPOSED	432 SF LANDSCAPE ISLAND W/ LIVE OAK YARD UGHT mm 297 SF 13" PINE + HE 15" PINE 15
<u>+</u>	12 UNIT	LANDSCAPE / / / / I LANDSCAPE / / / / / / / / / / / / / / / / / / /
	DUILDING #4 562 SF FOUNDATION PLANTING AREA WITH DWARF PITTOSPORUM SOUTH DWARF PITTOSPORUM S	TAND WY (2) CRAPE MYRTLES PROPOSED PROPOSED
	AND 18 AZALEAS \ \ \	YARD LIGHT NOTES + OK LIGHT NOTES + OK LIGHT NOTES
	AND TO AZALEAS AND TO AZALEAS PROPOSED C	SITE LIGHTING SERVICE WILL BE CONTRACTED THROUGH LOCAL POWER UTILITY COMPANY LANDSCAPING SHALL NOT OBSCURE OR BLOCK ACCESS TO HYDRANTS OR FDCS
TDEE CDEOLEC LEOEND	PROPOSED HYDRANT LIGHT	LIGHTING SHALL BE DESIGNED SO AS NOT TO SHINE DIRECTLY OR REFLECT ONTO ANY ADJACENT RESIDENTIAL PROPERTY LIGHTING SHALL BE DESIGNED SO AS NOT TO SHINE DIRECTLY OR RESIDENTIAL PROPERTY
TREE SPECIES LEGEND PLAN COMMON SCIENTIFIC NAME ABBREV. NAME	LANDSCAPIN OBSCURE— TO—HYDRA LANDSCAPE LANDSCAPE LANDSCAPE LANDSCAPE LISTAND W/	
MPL RED MAPLE ACER RUBRUM CR MR CRAPE MYRTLE LAGERSTROEMIA INDICA	246 SF LANDSCAPE ISLAND W/ RETAINED 16" LOBLOLLY PINE	RETAIN EX PARKING AREA LANDSCAPING AND DUMPSTER S SCREENING ASSOCIATED WITH PHASE 1
CHERRY BLACK CHERRY PRUNUS SEROTINA BRD PR BRADFORD PEAR PYRUS CALLERYANA		SIDEL CENTER CEN
LRL OK LAUREL OAK QUERCUS LAURIFOLIA WTR OK WATER OAK QUERCUS NIGRA	RETAIN EX STREETYARD LANDSCAPING ASSOCIATED WITH PHASE 1	
PINE LOBLOLLY PINE PINUS TAEDA GUM SWEETGUM LIQUIDAMBAR STYRACIFLUA	TO PINE	
DGWD DOGWOOD CORNUS FLORIDA	15" PIME + OM	
MAG SOUTHERN MAGNOLIA MAGNOLOA GRANDIFLORA HOL AMERICAN HOLLY ILEX OPACA CYPRESS PALPOYRESS TAYORUMA DISTIBILINA	EX 20' X 70' SIGHT TRIANGLES	
CYPRESS BALDCYPRESS TAXODIUM DISTICHUM COTTNWD EASTERN COTTONWOOD POPULUS DELTOIDES	3; ANE	623
CEDAR WHITE CEDAR CHAMAECYPARIS THYOIDES		EX 12 UNIT BUILDING #2
LANDSCAPE SCHEDULE	5° M	EX YARD
SYMBOL SPECIES CATAGORY MINIMUM NO.	T	□ LIGHT □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
LIVE OAK SHADE TREE 2 INCH CALIPER 12 CRAPE MYRTLE SMALL TREE 5 GAL POT 15	BUILDING 20" WIRED" 1	# I LIGHT O
AZALEA SHRUB 12 INCH HEIGHT 18	1 + pule 10 10 10 10 10 10 10 10 10 10 10 10 10	
DWARF PITTOSPORUM SHRUB 12 INCH HEIGHT 37 ASIATIC JASMINE GROUNDCOVER 2.5 QT POT 85	The second of th	
JASMINE GROONDOOVEN POT 03	+ PME + PME + PME + PME	
LANDSCAPING CALCULATIONS		2" X 6" PT CAP BUARD
STREETYARD		CAP BOARD 4" X 4" X 120" PT POST TRIM BOARD
100 LF PROPERTY FRONTAGE WITH NO DRIVEWAY = 100 LF STREETYARD MULTIPLIER = 18 X 100 = 1,800 SF REQUIRED (1,800 SF PROVIDED)		33" 72"
STREETYARD IS ADJACENT TO OVERHEAD POWER LINES——PROVIDE UNDERSTORY TREES 3 UNDERSTORY TREE PER 600 SF = 9 REQUIRED (9 PROVIDED)	ES POHP OHP OHP OHP OHP OHP OHP OHP OHP OH	2" X 4" X 72" PT PICKETS 13" X 48"
6 SHRUBS PER 600 SF = 18 REQUIRED (18 PROVIDED)	OHP	POST HOLE
PARKING AREA INTERIOR SHADING 32,008 SF BUA X 20% = 6,401 SF REQUIRED (8,482 SF PROVIDED)	OHP OHP S	48"
PROVIDE/RETAIN 8 CANOPY TREES AT 707 SF EA = 5,656 SF PROVIDE 9 UNDERSTORY TREES AT 314 SF EA = 2,826 SF	HP	96" (MAX)
PARKING AREA PERIMETER —— NA		SECTION PROFILE
FOUNDATION PLANTING CALCULATIONS		WOODEN OPAQUE FENCE nts

GRAPHIC SCALE: 1" = 20'

STROUD ENGINEERING, P.A.

(910) 815-0775 LICENSE # C-0647

102-D CINEMA DRIVE WILMINGTON, NC 28403

DEVELOPER/OWNER:
SEAHAWK COVE SH, LLC
305 PETTIGREW DRIVE
WILMINGTON, NC 28412

(910) 367-9782

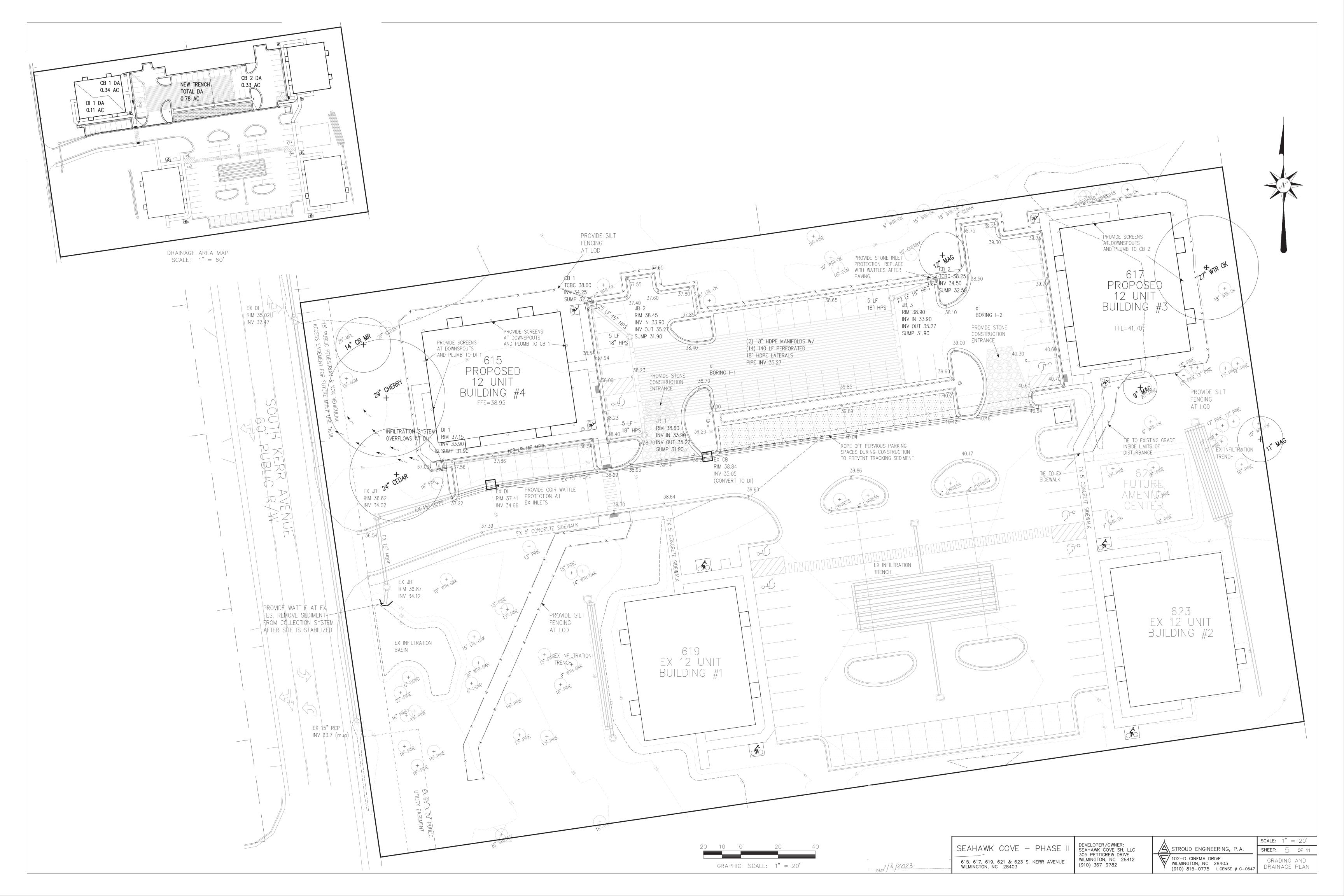
SEAHAWK COVE - PHASE I

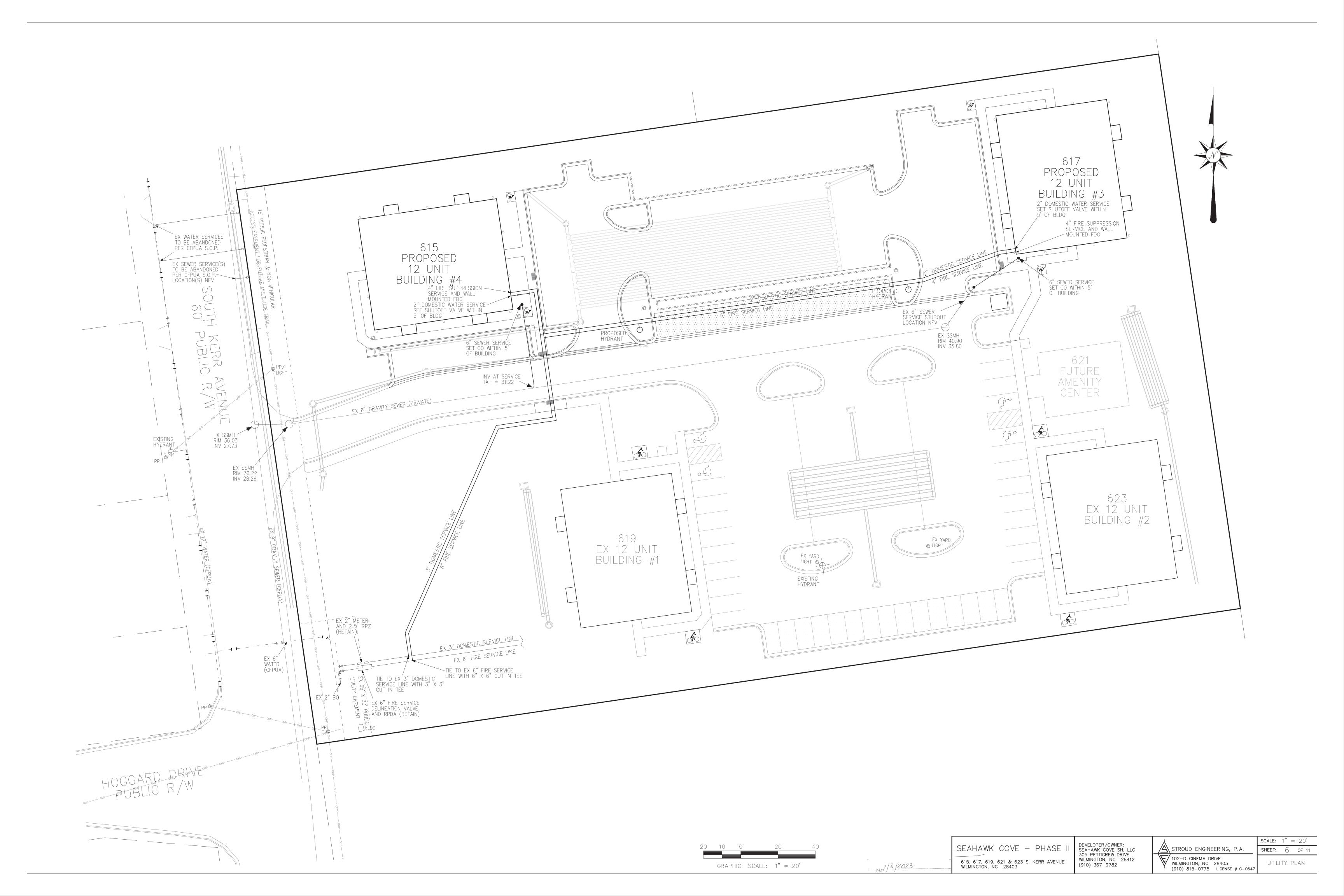
615. 617, 619, 621 & 623 S. KERR AVENUE WILMINGTON, NC 28403

SCALE: 1" = 20'

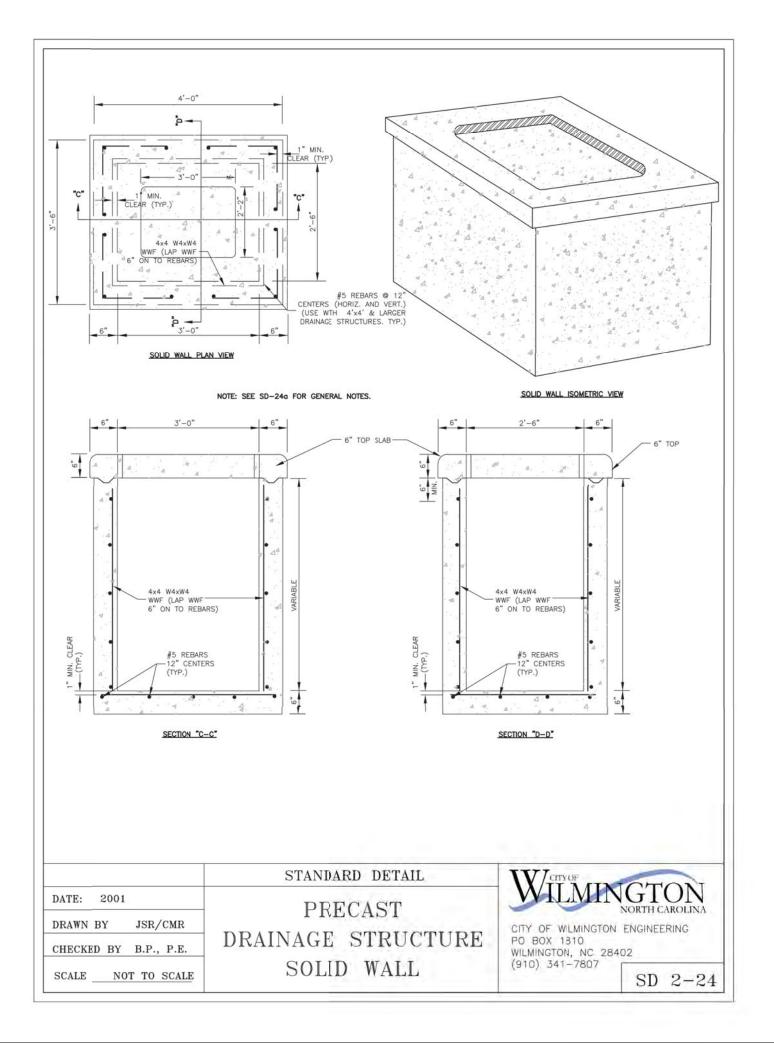
SHEET: 4 OF 11

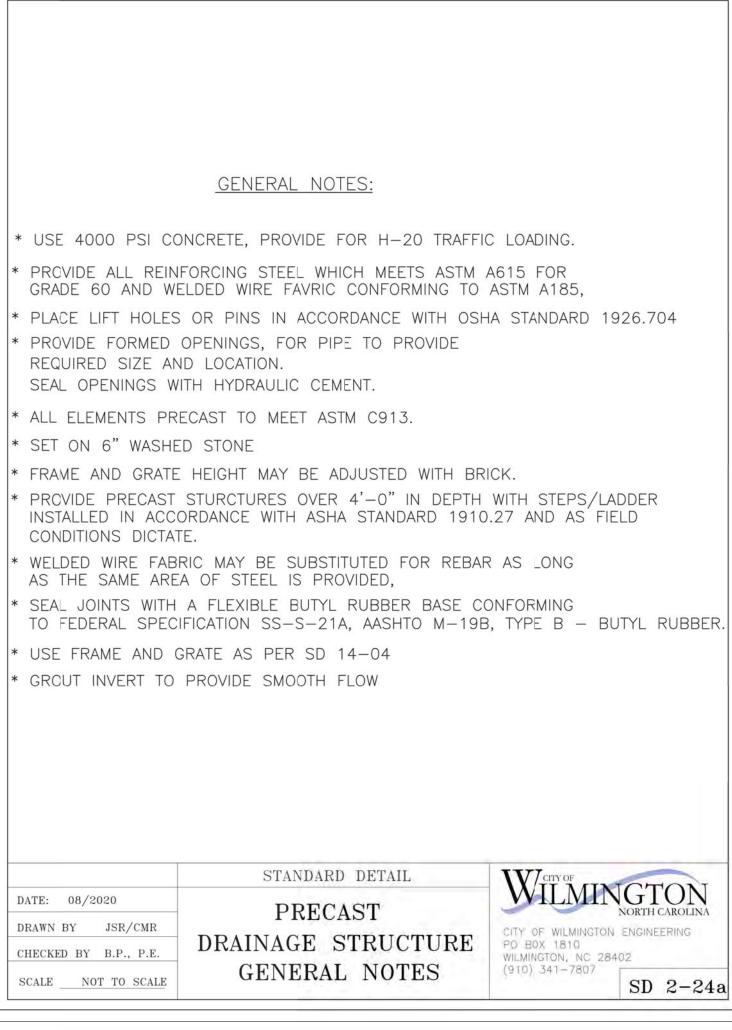
ANDSCAPING PLAN

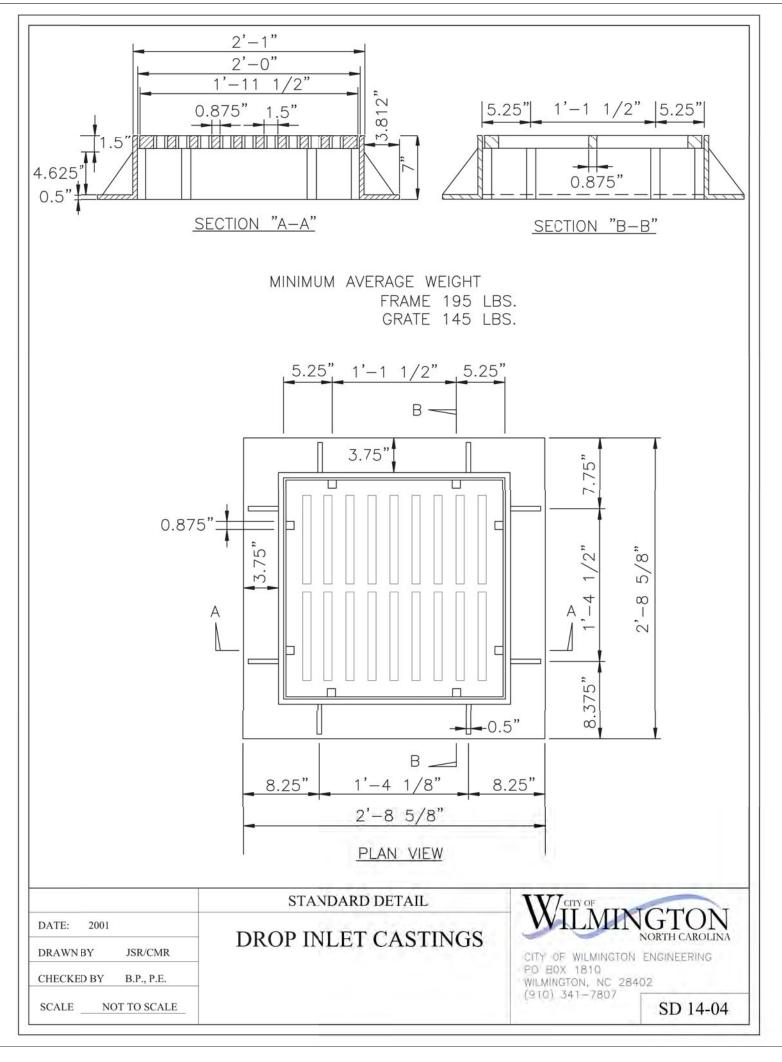


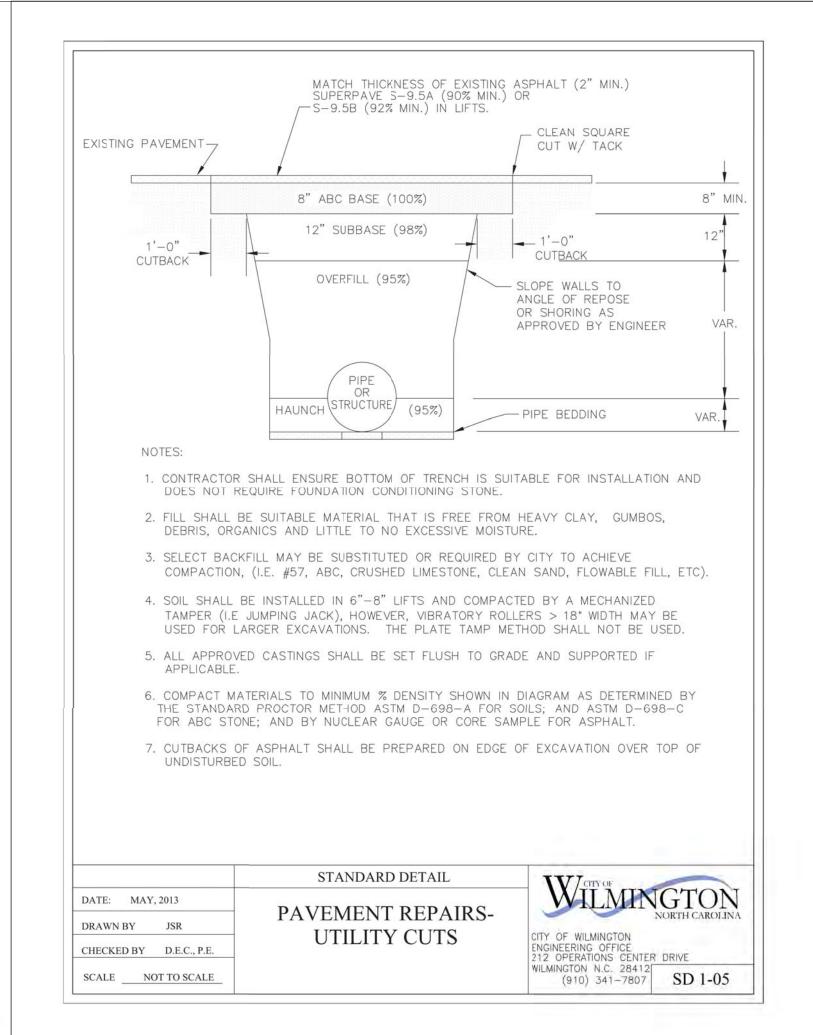












SCALE: AS NOTED

SHEET: 8 OF 11

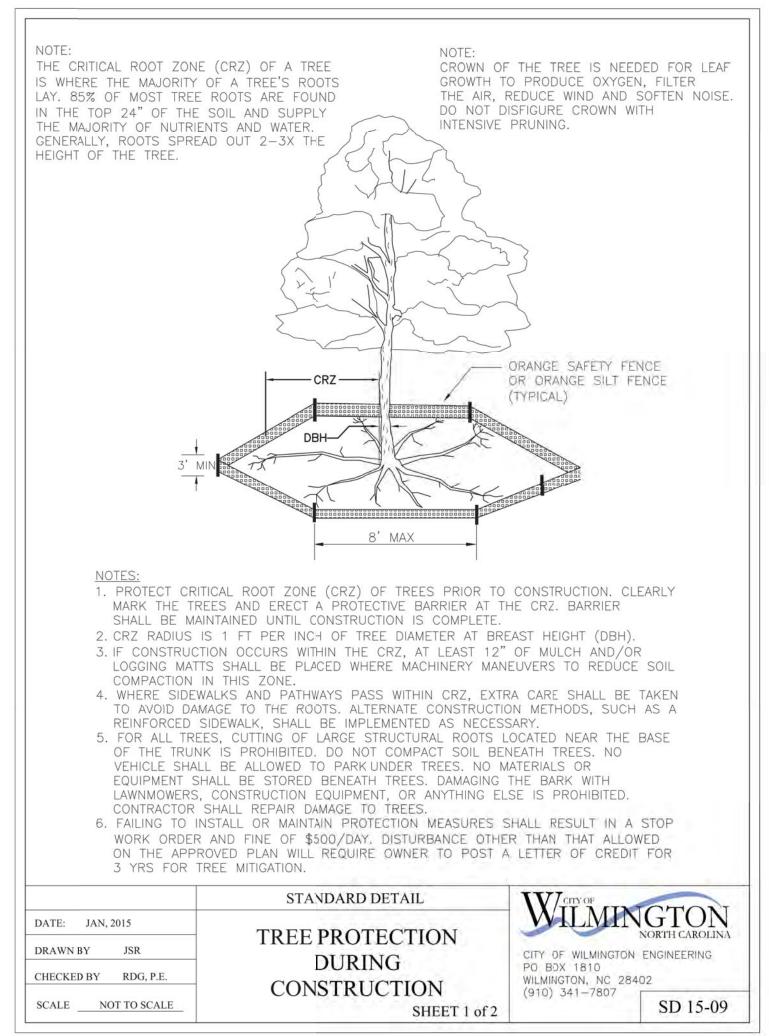
DETAILS

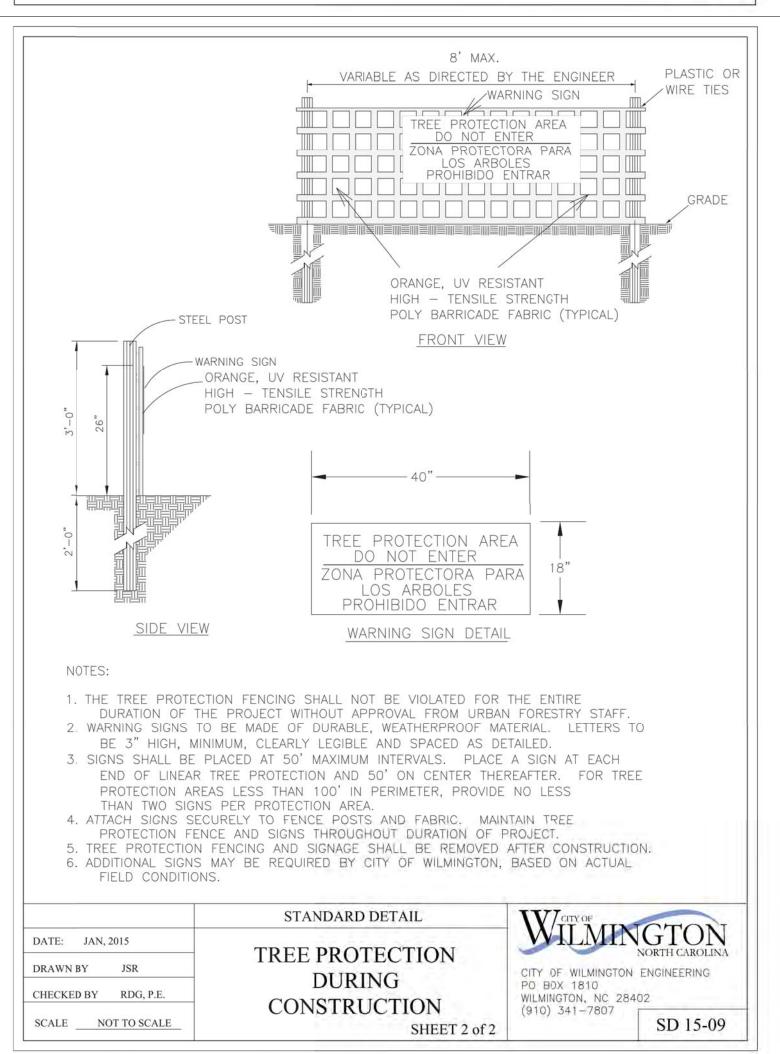
STROUD ENGINEERING, P.A.

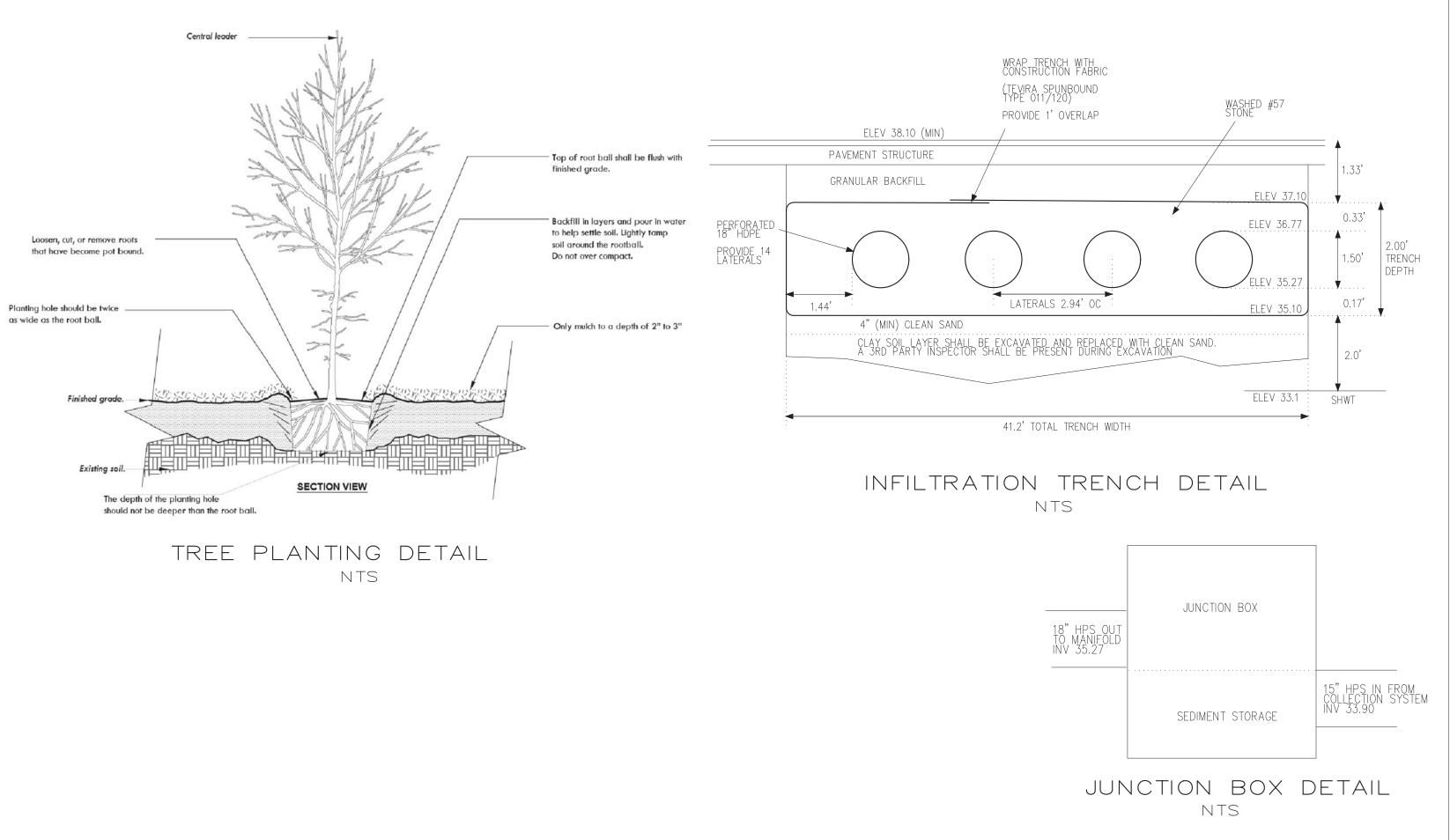
(910) 815-0775 LICENSE # C-0647

WILMINGTON, NC 28403

102-D CINEMA DRIVE







SEAHAWK COVE - PHASE

615. 617, 619, 621 & 623 S. KERR AVENUE

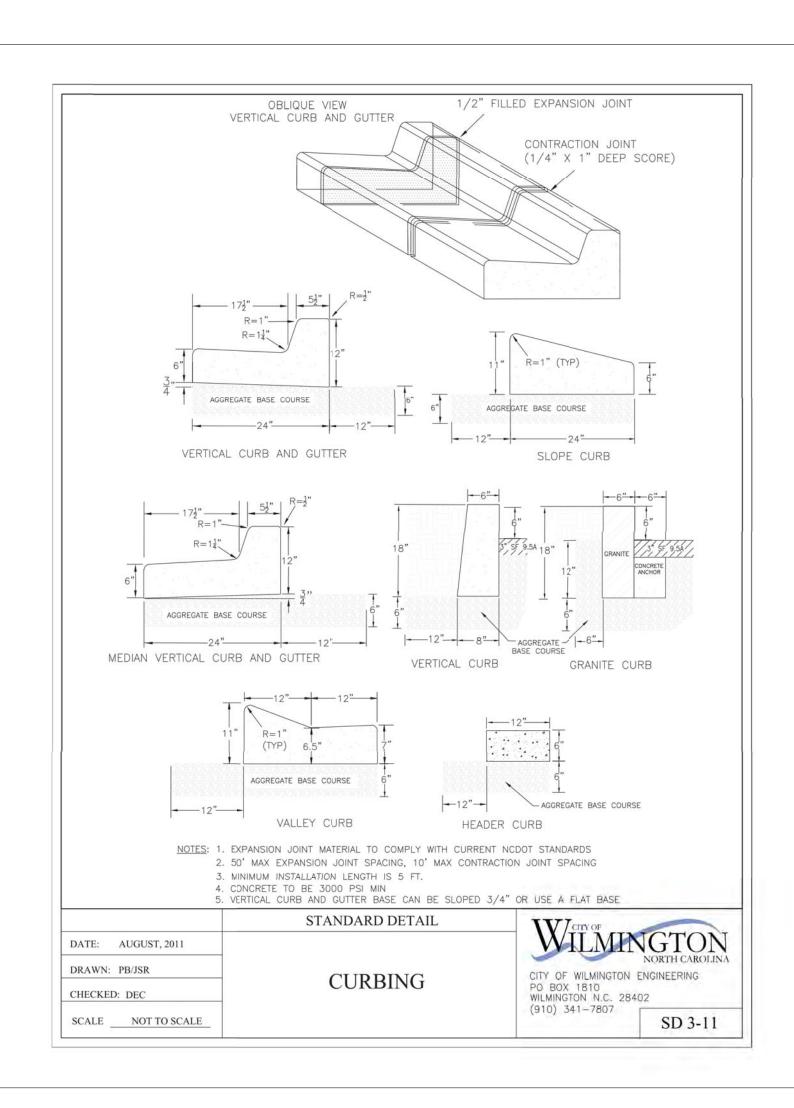
WILMINGTON, NC 28403

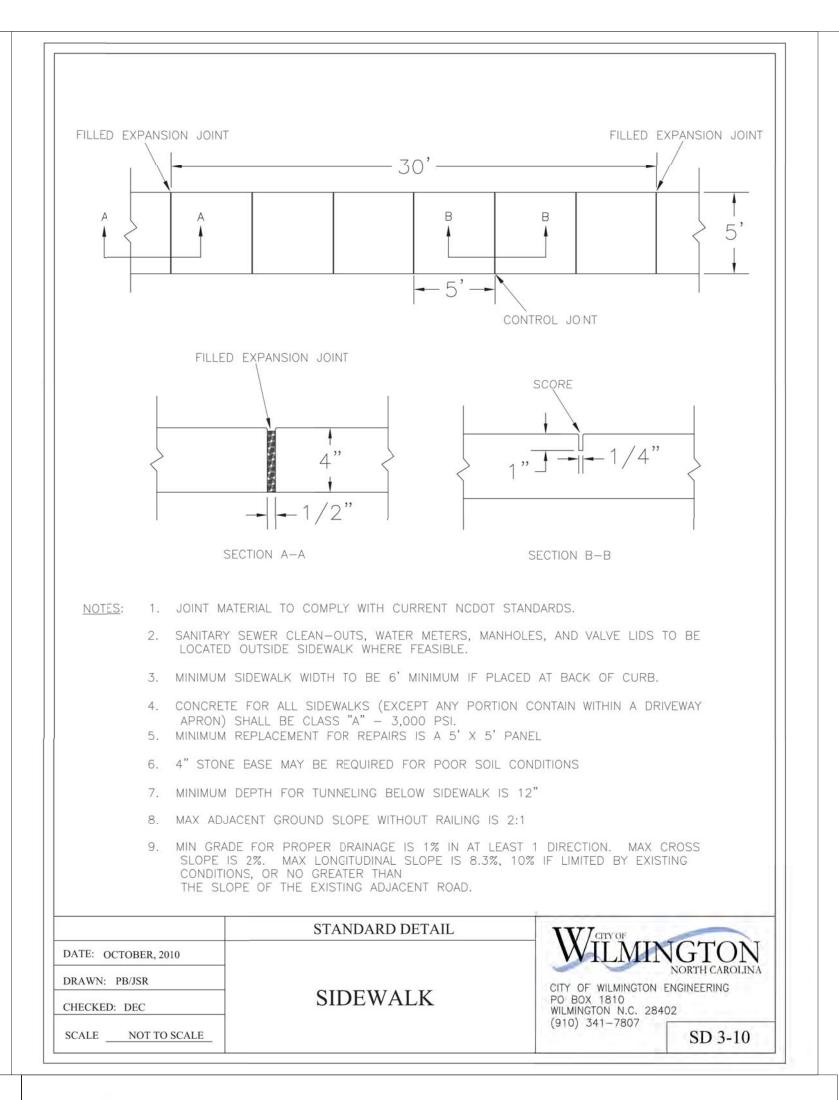
SEAHAWK COVE SH, LLC

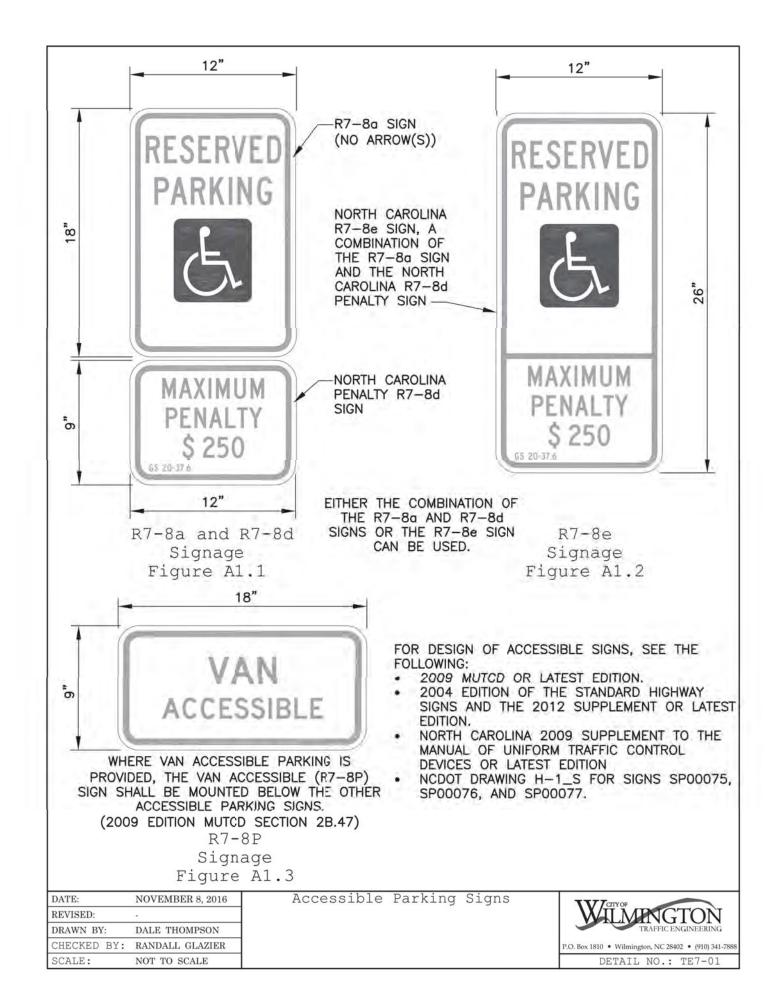
305 PETTIGREW DRIVE

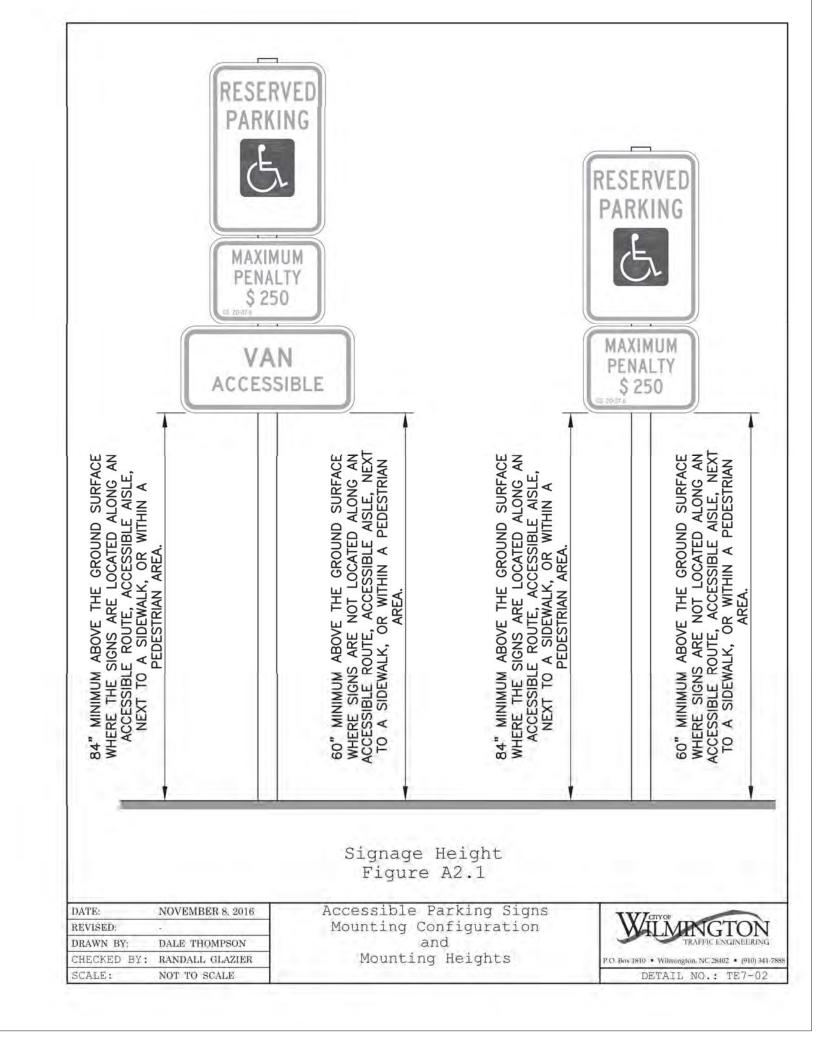
(910) 367-9782

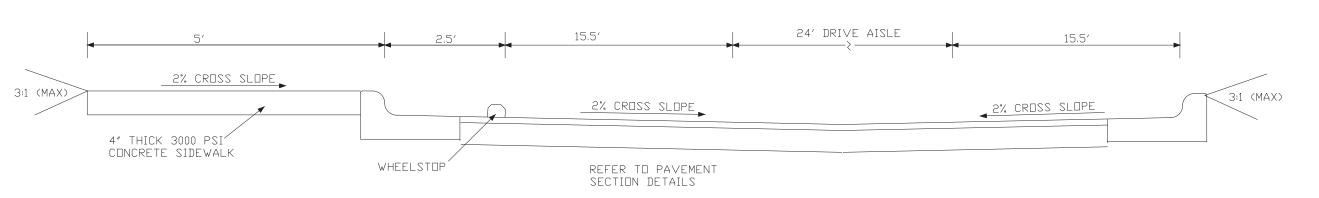
WILMINGTON, NC 28412



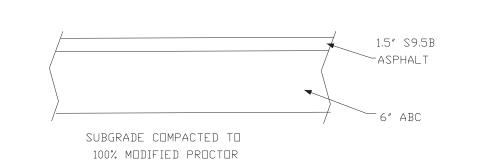




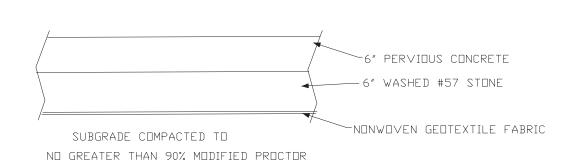




TYPICAL PARKING LOT SECTION



ASPHALT PAVEMENT SECTION



PERVIOUS CONCRETE PAVEMENT SECTION

NTS

NOTES:

VERIFY COMPACTION OF INSITU SOILS PRIOR ROLLING.

FENCE OR ROPE OFF PERVIOUS PARKING AREA TO PREVENT CONSTRUCTION TRAFFIC FROM PARKING ON PREPARED SUBGRADE, STONE BASE, OR FINISHED CONCRETE

SEAHAWK COVE — PHASE II

615. 617, 619, 621 & 623 S. KERR AVENUE
WILMINGTON, NC 28403

DEVELOPER/OWNER:
SEAHAWK COVE SH, LLC
305 PETTIGREW DRIVE
WILMINGTON, NC 28412
(910) 367-9782

STROUD ENGINEERING, P.A.

102-D CINEMA DRIVE
WILMINGTON, NC 28403
(910) 815-0775 LICENSE # C-0647

SCALE: AS NOTED

SHEET: 9 OF 11

DETAILS

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

CECTION E. CROUND CTARUITATION

Required Ground Stabilization Timeframes			
Site Area Description Site Area Description Stabilize within this many calendar days after ceasing land disturbance		many calendar	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7 If slopes are 10' or less in l not steeper than 2:1, 14 da allowed	
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e)	e) Areas with slopes flatter than 4:1		 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

bund stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

techniques in the table below:				
	Temporary Stabilization	Permanent Stabilization		
	 Temporary grass seed covered with straw or other mulches and tackifiers 	Permanent grass seed covered with straw or other mulches and tackifiers		

- Geotextile fabrics such as permanent soil Hydroseeding · Rolled erosion control products with or without temporary grass seed
- reinforcement matting Hydroseeding Appropriately applied straw or other mulch . Shrubs or other permanent plantings covered with mulch Plastic sheeting Uniform and evenly distributed ground cover sufficient to restrain erosion · Structural methods such as concrete, asphalt or

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.

retaining walls

Rolled erosion control products with grass seed

- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the NC DWR List of Approved
- PAMS/Flocculants and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

has been corrected.

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- Collect all spent fluids, store in separate containers and properly dispose as
- hazardous waste (recycle when possible) Remove leaking vehicles and construction equipment from service until the problem
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. . Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if
- containers overflow. Dispose waste off-site at an approved disposal facility.

Contain liquid wastes in a controlled area.

9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

construction sites.

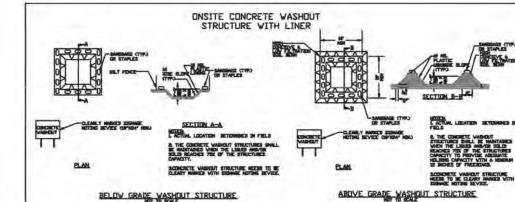
- **PORTABLE TOILETS** Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place
- on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace

EARTHEN STOCKPILE MANAGEMENT

with properly operating unit.

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.





CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the
- approving authority. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately. Do not stockpile these materials onsite

HAZARDOUS AND TOXIC WASTE

SECTION C: REPORTING

(b) Oil spills if:

environment.

858-0368.

(a) Visible sediment

deposition in a

(b) Oil spills and

substances per Iten

1(b)-(c) above

(c) Anticipated

bypasses [40 CFR

(d) Unanticipated

bypasses [40 CFR

(e) Noncompliance

with the conditions

of this permit that

may endanger

environment[40

CFR 122.41(I)(7)]

health or the

122.41(m)(3)]

122.41(m)(3)]

release of

hazardous

1. Occurrences that Must be Reported

They are 25 gallons or more,

Permittees shall report the following occurrences:

(Ref: 40 CFR 302.4) or G.S. 143-215.85.

2. Reporting Timeframes and Other Requirements

(d) Anticipated bypasses and unanticipated bypasses.

(a) Visible sediment deposition in a stream or wetland.

- Create designated hazardous waste collection areas on-site.
- 2. Place hazardous waste containers under cover or in secondary containment.
- 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

They are less than 25 gallons but cannot be cleaned up within 24 hours,

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA

(e) Noncompliance with the conditions of this permit that may endanger health or the

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be

Reporting Timeframes (After Discovery) and Other Requirements

Within 7 calendar days, a report that contains a description of the

sediment and actions taken to address the cause of the deposition Division staff may waive the requirement for a written report on a

If the stream is named on the NC 303(d) list as impaired for sediment

Within 24 hours, an oral or electronic notification. The notification

A report at least ten days before the date of the bypass, if possible

Within 7 calendar days, a report that includes an evaluation of the

Within 7 calendar days, a report that contains a description of the

including exact dates and times, and if the noncompliance has not

continue; and steps taken or planned to reduce, eliminate, and

prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a

been corrected, the anticipated time noncompliance is expected to

noncompliance, and its causes; the period of noncompliance,

The report shall include an evaluation of the anticipated quality and

shall include information about the date, time, nature, volume and

related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff

determine that additional requirements are needed to assure compliance

reported to the Department's Environmental Emergency Center personnel at (800)

Within 24 hours, an oral or electronic notification.

with the federal or state impaired-waters conditions.

Within 24 hours, an oral or electronic notification

Within 24 hours, an oral or electronic notification.

case-by-case basis.

effect of the bypass

case-by-case basis.

location of the spill or release.

quality and effect of the bypass

They cause sheen on surface waters (regardless of volume), or

They are within 100 feet of surface waters (regardless of volume).

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	(during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those cattended days (anc this will determine if a site inspection needed). Days on which no rainfall occurred shall be recorded "zero." The permittee may use another rain-monitoring deviapproved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has let the site limits, Description, evidence, and date of corrective actions taken, a An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, ar 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this perm
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING .. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Documentation Requirements

report to indicate the completion of the

(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection

2. Additional Documentation to be Kept on Site In addition to the E&SC plan documents above, the following items shall be kept on the

site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

corrective action

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include
- properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems, (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

EFFECTIVE: 04/01/19

EROSION & SEDIMENT CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENTATION 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 CONSTRUCTIONS ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2" 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, ROCK PIPE INLET PROTECTION, AND GUTTERBUDDY INLET PROTECTOIN 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 HARWARE 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/SOCKS, AND GUTTERBUDDIES ONCE A WEEK AND AFTER EVERY RAIN EVENT. NOTE THAT THE GUTTERBUDDY IS REUSABLE AND SHOULD BE STORED OUT OF DIRECT SUNLIGHT

4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATLEY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE RESTABLIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF 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 STRENGHT FABRIC WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET (MAX) WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE USED 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,

6. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND BASINS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. 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 FIRST BAFFLE. IN SKIMMER BASINS, FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.

7. 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 SLABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.

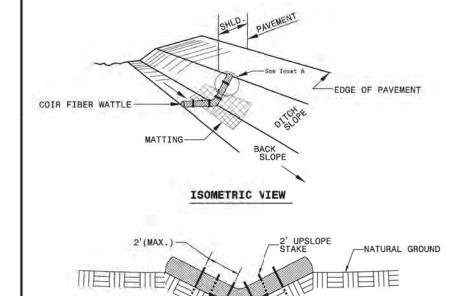
8. FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES AND INJECTION SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.

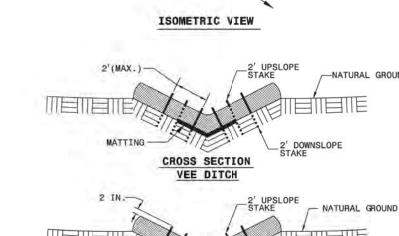
9. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING WATTLES. REMOVE SEDIMENT FROM BEHIND WATTLES ONCE IT HAS ACCUMULATED TO ONE-HALF THE WATTLE DIAMETER.

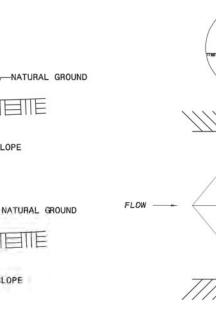
CONSTRUCTION SEQUENCE

- . INSTALL INLET PROTECTION, SILT FENCE, AND STONE CONSTRUCTION ENTRANCES.
- 2. CLEAR & GRADE 3. INSTALL UNDERGROUND UTILITIES
- 4. INSTALL PAVEMENT
- 5. PROVIDE 100% VEGETATIVE COVER OF ALL DISTURBED SOILS. 6. CLEAN SEDIMENT FROM PIPES AFTER STABILIZATION.

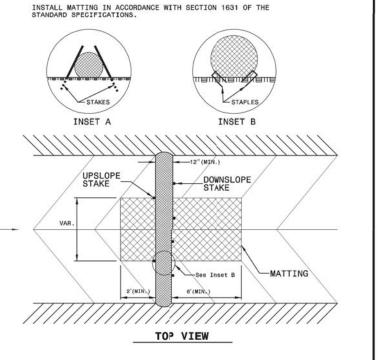
COIR FIBER WATTLE DETAIL







USE MINIMUM 12 IN, DIAMETER COIR FIBER (COCONUT FIBER) WATTLE. USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION. INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH. INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL. NSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE



SEAHAWK COVE - PHASE

615. 617, 619, 621 & 623 S. KERR AVENUE

WILMINGTON, NC 28403

COASTAL PLAIN SITE STABILIZATION SCHEDULE

- 1. Fertilize and lime per recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer. Incorporate lime/fertilizer 4-6 inches.
- Roughen steep slopes by tracked machinary. Select species based on season. Refer to tables.
- 5. Broadcast seeds evenly and cover by raking or dragging a chain. Firm soil by rolling. 6. Apply straw mulch at a rate 1-2 tons per acre. Anchor straw by tacking with asphalt, netting,

or a mulch anchoring tool.

A disk with blades set nearly straight can be used as a mulch anchoring tool. . Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other daMGe.

PERMANENT SEEDING TABLE 1

Seeding Dates	Recommended Planting	Rate (lb/ac)
eb. 15 - Apr. 1 Sep. 1 - Nov. 1	Tall Fescue Mixture	see table 2
Apr. 1 - Aug. 1	Hybrid Bermudagrass	see table 2
	Common Bermudagrass	see table 2
Mar. 1 - Jul. 1	Centipedegrass	see table 2

PERMANENT SEEDING TABLE 2a-LOW MAINTENANCE MIXTURES

Recommended Planting	Rate (Ib/ac)
Tall Fescue Mixture Pensacola Bahiagrass Kobe Lespedeza	80 50 40
Pensacola Bahiagrass Common Bermudagrass Kobe Lespedeza German Millet	50 30 10 10
Common Bermudagrass	40-80
	Tall Fescue Mixture Pensacola Bahiagrass Kobe Lespedeza Pensacola Bahiagrass Common Bermudagrass Kobe Lespedeza German Millet

PERMANENT SEEDING	G TABLE 2b—HIGH MAINTENA	ANCE MIXTURES
ite Description	Recommended Planting	Rate (Ib/ac)
Vell to poorly rained soils	Tall Fescue Mixture Rye Grain	200 25
Ory to well Irained soils	Hybrid Bermudagrass	50
Vell drained andy loam to and, lawns.	Centipedegrass	10-20

For seeding outside of recommended dates and/or for temporary stabilization, refer to temporary

For highly erosive areas or as directed by an engineer, sod shall be provided.

TEM	PORARY SEEDING TABLE	
Seeding Dates	Recommended Planting	Rate (lb/ac)
Dec. 1 - Apr. 15	Kobe Lespedeza with Rye Grain	50 120
Apr. 15 - Aug. 15	German Millet	40
Aug. 15 - Dec. 1	Rye Grain	120

SOD INSTALLATION

- 1. Fertilize and lime per recommendations of soil tests or apply 100 lb/1,000 sf ground agricultural limestone and 25 lb/1,000 sf fertilizer. In the Incorporate lime/fertilizer 4-6 inches.
- Rake or harrow to achieve a smooth final grade. 4. Roll to achieve a smooth, firm surface on which to lay the sod.
- 5. Lightly rake and irrigate top layer of soil just prior to installation
- 6. Lay sod in a staggered, brick—like pattern with the longest dimension perpendicular to the slope. Avoid gaps. Use a knife to fit irregular shapes.
- 7. Roll sod lightly after installation to ensure good sod to soil contact.
- Keep soil moist for 2—3 weeks thereafter or until sod has taken root.

CONTROL FABRIC STAKES — 1'-0" -

EXISTING ROAD

CONSTRUCTION ENTRANCE DETAIL

STONE INLET PROTECTION

WOODEN POSTS ARE NOT ACCEPTABLE

SEAHAWK ĆOVE SH, LLC 102-D CINEMA DRIVE WILMINGTON, NC 28412

305 PETTIGREW DRIVE

(910) 367-9782

SCALE: AS NOTED STROUD ENGINEERING, P.A. SHEET: $1 \bigcirc$ OF 11 WILMINGTON, NC 28403 DETAILS

(910) 815-0775 LICENSE # C-0647

NORTH CAROLINA
Environmental Quality