

Pender County Planning and Community Development

Planning Division

805 S. Walker Street
PO Box 1519
Burgaw, NC 28425



Phone: 910-259-1202
Fax: 910-259-1295
www.pendercountync.gov

Intracoastal Angler Hampstead

Case Number: SDP-2024-00412

Application Type: Major Site Development Plan

Applicant: Phillip David

Owner: Phillip David

Location: The 1.78-acre project area is located approximately 570 feet North of the intersection of Hwy 17 and Loblolly Trail.

Property ID #(s): 3293-20-8908-0000

Description:

Site development plan and application for the construction of an 8,450 sq ft retail tackle shop.

Current Zoning:

GB, General Business

Technical Review Committee Meeting

07/11/2024

Board of County Commissioners/Planning Board Meeting

N/A

Included:

Application and Site Plan

APPLICATION PACKAGE

Pender County Planning and Community Development

Planning Division
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PO Box 1519
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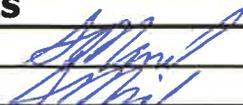
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MAJOR AND MINOR SITE DEVELOPMENT APPLICATION

THIS SECTION FOR OFFICE USE					
Date:	Permit Number:	Permit Fee:	Invoice Number:		
*Zoning Approval ONLY: YES / NO		Final Zoning Compliance Approved: YES / NO / N/A			
Type of Site Development Plan:	<input type="checkbox"/> Major	<input type="checkbox"/> Minor			
SECTION 1: GENERAL INFORMATION					
Applicant's Name:	Phillip David	Property Owner's Name:	Phillip David		
Applicant's Address:	821 Inlet View Dr.	Property Owner's Address:	821 Inlet View Dr.		
City, State, & Zip	Wilmington, NC 28409	City, State, & Zip	Wilmington, NC 28409		
Phone Number:	910-251-8088	Phone Number:	910-251-8088		
Email Address:	p david@davidandassociates.com	Email Address:	p david@davidandassociates.com		
Legal relationship of applicant to land owner:	Applicant is the land owner				
SECTION 2: PROJECT INFORMATION					
PIN (Property Id #):	3293-20-8908-0000	Total property acreage:	1.78		
Zoning :	GB	Acreage to be disturbed:	1.8		
Directions to Site:	Project is located on the eastern side of NC Hwy 17 approx. 0.13 miles north of the intersection of Hwy 17 and Loblolly Trail				
Lot Size: 1.78 ac	Sq Ft of Building: 8,450		Building Height: 20ft		
Setbacks	Front: 25	Side: 10	Rear: 10		
NAICS Code/Use:	451110 - Sporting Goods Store				
Business Name:	Intracoastal Angler Hampstead				
Describe activities to be undertaken on project site:	Retail Tackle Shop				
Ownership:	Number of Employees:	Number of Members:	Seating Capacity:		
<input checked="" type="checkbox"/> Private <input type="checkbox"/> Public	4/shift	NA	NA	NA	

**If the applicant is not the owner of the property, a notarized letter from the property owner may be required*

**Zoning approval is for the use being proposed ONLY, other department approvals may be required i.e. Fire Marshal, Environmental Health, Permitting, etc...*

SECTION 4: ADDITIONAL COMMENTS		
SECTION 5: SIGNATURES		
Applicant:		Date: 5-17-24
Owner:		Date: 5-17-24
Planning Staff:		Date:

SITE PLAN

Basis of Bearings
 NC GRID (NAD 83 / NGS 2011) 0.9999040
 COMBINED GRID FACTOR USED:

REHOBOTH INVESTORS 2 LLC
 3293-21-4351-0000
 DB 4749, PG 2192
 ZONING: GB
 USE: VACANT

SODOMSKY, MITCHELL
 3293-21-1162-0000
 DB 3696, PG 340
 ZONING: GB
 USE: COMMERCIAL

LBC BOTTLE SHOP INC
 3293-20-9602-0000
 DB 4811, PG 366
 ZONING: GB
 USE: COMMERCIAL

SHEET NO. DESCRIPTION

C-0	EXISTING CONDITIONS & TREE REMOVAL/PROTECTION PLAN
C-1	SITE, GRADING, DRAINAGE, & STORMWATER PLAN
C-2	SEDIMENTATION & EROSION CONTROL PLAN
C-3	DETAILS
C-4	DETAILS/NCGO1 NOTES

SITE DATA

PARCEL ID: 3293-20-8908-0000
 CURRENT ZONING: GB
 PROJECT ADDRESS: 15696 US HWY 17 N
 HAMPSTEAD, NC 28443
 CURRENT OWNER: PHILLIP DAVID
 821 INLET VIEW DR
 WILMINGTON, NC 28409
 TOTAL ACREAGE IN PROJECT BOUNDARY: 77,514 S.F. (± 1.78 ac.)
 EXISTING USE: VACANT SITE
 EXISTING ONSITE IMPERVIOUS AREAS: (ALL TO BE REMOVED)
 ASPHALT: 680 S.F.
 GRAVEL/SOIL DRIVES: 2,410 S.F.
 TOTAL: 3,090 S.F. (4.0%)
 SOIL TYPE: KuB (Kureh fine sand)
 Mu (Marville mucky fine sand)
 (Per Pender County GIS)

NOTES:

- EXISTING SURVEY DATA PROVIDED BY BENJAMIN F. FARROW III, PLS., L-5104
- SITE HAS NOT BEEN EVALUATED FOR THE PRESENCE OF WETLANDS.
- NO SURFACE WATERS EXIST WITHIN 50' OF THIS SITE.
- THIS LOT IS LOCATED IN ZONE X AS PER FIRM COMMUNITY# 370344, MAP# 3720327100J, EFFECTIVE ON 02/16/2007 & (PRELIMINARY) PER FRIS ON FIRM MAP NUMBER 3720327100K DATED: 08/29/2014.
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, A CONSTRUCTION ENTRANCE AND SILT FENCING SHALL BE INSTALLED.
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES.
- NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- TREE PROTECTION SIGNAGE SHALL BE ADDED ALONG THE LIMITS OF DISTURBANCE ADJACENT TO TREES EVERY 100' TO PROTECT TREES ADJACENT TO THE CONSTRUCTION SITE.

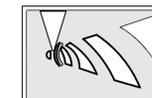
VICINITY MAP (NOT TO SCALE):



REVISIONS

NO.	DATE	DESCRIPTION

INTRACOASTAL ENGINEERING, PLLC
 5725 Oleander Dr. Unit E-7
 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: Charlie@intracoastalengineering.com
 License Number: P-0662



EXISTING CONDITIONS & TREE REMOVAL PLAN
 FOR
INTRACOASTAL ANGLER
HAMPSTEAD
PENDER COUNTY, NC



Charles D. Calzler
 6/4/2024

CLIENT INFORMATION:
 Phillip David
 1516 Dawson Street
 Wilmington, NC 28401
 (910) 251-8088

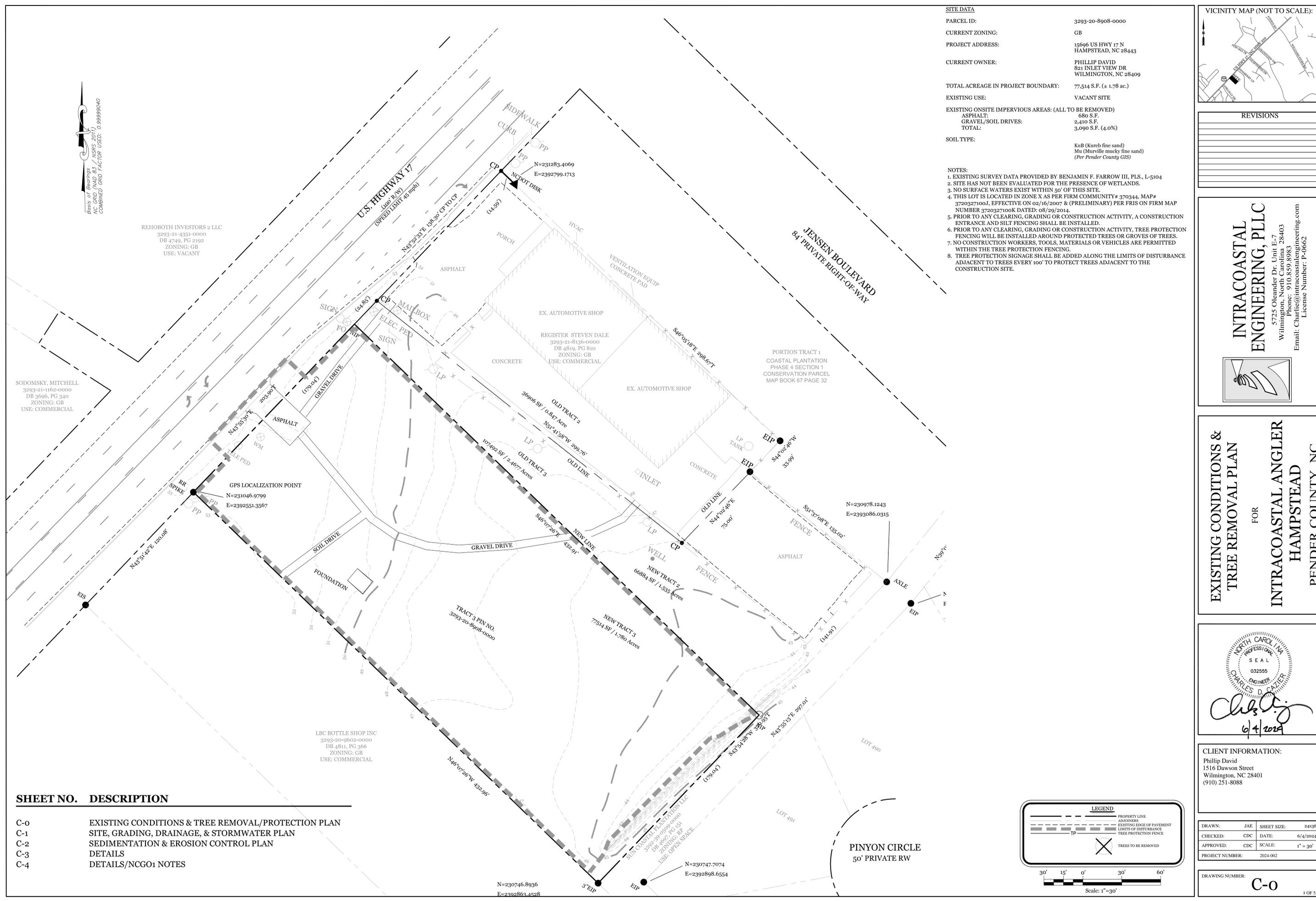
DRAWN: JAE SHEET SIZE: 24x36
 CHECKED: CDC DATE: 6/4/2024
 APPROVED: CDC SCALE: 1" = 30'
 PROJECT NUMBER: 2024-002

DRAWING NUMBER: **C-0**
 1 OF 5

LEGEND

- PROPERTY LINE
- ADJOINERS
- EXISTING EDGE OF PAYMENT
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE
- TREES TO BE REMOVED

Scale: 1" = 30'



Basis of Bearings
 NC GRID (NAD 83) ANGLES 2011
 COMBINED GRID FACTOR USED: 0.99999040

REHOBOTH INVESTORS 2 LLC
 3293-21-4351-0000
 DB 4749, PG 2192
 ZONING: GB
 USE: VACANT

MSKY, MITCHELL
 53-21-1162-0000
 B 3606, PG 340
 ZONING: GB
 USE: COMMERCIAL

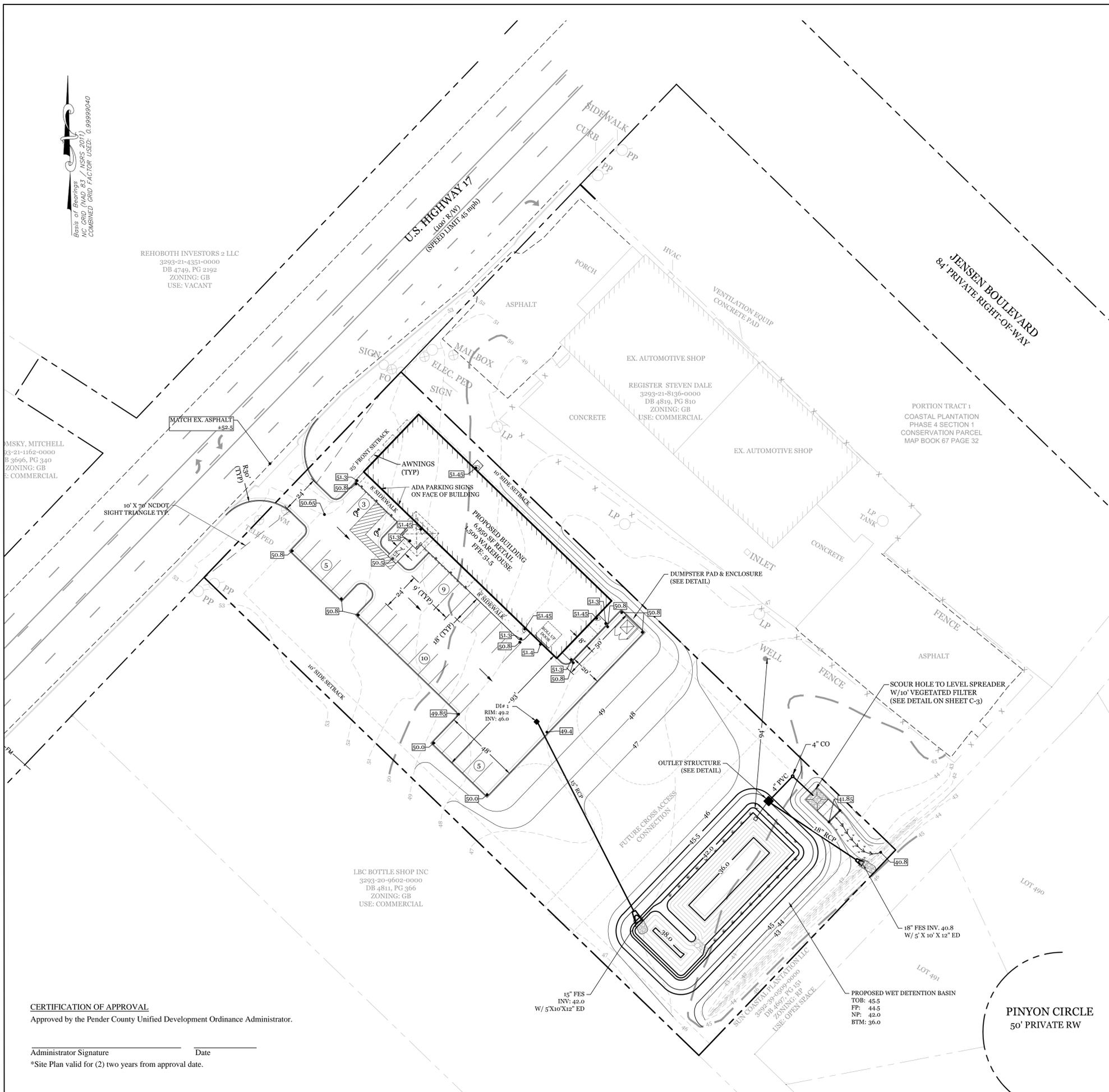
LBC BOTTLE SHOP INC
 3293-20-9602-0000
 DB 4811, PG 366
 ZONING: GB
 USE: COMMERCIAL

CERTIFICATION OF APPROVAL

Approved by the Pender County Unified Development Ordinance Administrator.

 Administrator Signature Date

*Site Plan valid for (2) two years from approval date.



SITE DATA

PARCEL ID:	3293-20-8908-0000	
CURRENT ZONING:	GB	
PROJECT ADDRESS:	15696 US HWY 17 N HAMPSTEAD, NC 28443	
CURRENT OWNER:	PHILLIP DAVID 821 INLET VIEW DR WILMINGTON, NC 28409	
TOTAL ACREAGE IN PROJECT BOUNDARY:	77,514 S.F. (± 1.78 ac.)	
TOTAL DISTURBED AREA:	±1.8 ACRES	
EXISTING USE:	VACANT SITE	
PROPOSED USE:	RETAIL/WAREHOUSE NAICS CODE: 451110 "Sporting Goods Stores"	
BUILDING SIZE:	8,450 SF GFA	
BUILDING HEIGHT:	±20' / 1-STORY (40' MAX)	
BUILDING SETBACKS:		
FRONT:	REQUIRED= 25'	PROPOSED= 26.5'
SIDE:	REQUIRED= 10'	PROPOSED= 11.5'/17.5'
REAR:	REQUIRED= 10'	PROPOSED= 237.5'

PROPOSED IMPERVIOUS AREAS:

BUILDING ROOF	8,450 S.F.
ASPHALT	13,470 S.F.
CONCRETE(SIDEWALK, CURBING, ETC.)	2,455 S.F.
FUTURE	27,625 S.F.
TOTAL	52,000 S.F. (67.1%)

PROPOSED OFF-SITE IMPERVIOUS AREAS:

ASPHALT DRIVEWAY APRONS	780 S.F.
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PARKING REQUIRED: Retail Sales (1 per 225 sf):
 MINIMUM = 6,950 S.F./225 S.F. = 31 SPACES
 MAXIMUM = 125% OF MINIMUM 39 SPACES

PARKING REQUIRED: Warehouse (1 per 5,000 sf):
 MINIMUM = 1,500 S.F./5,000 S.F. = 1 SPACES
 MAXIMUM = 125% OF MINIMUM 1 SPACES

PARKING PROVIDED: 32 SPACES (2 ADA)

ESTIMATED TRIP GENERATION: (Per Trip Generation Manual):
 8,450 SF APPAREL STORE (ITE CODE 876) AM PEAK: 9 PM PEAK: 35 DAILY: 561

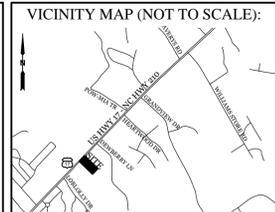
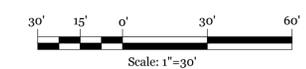
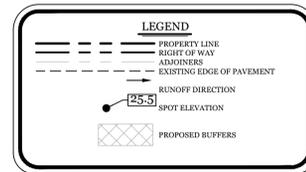
- NOTES:**
- EXISTING SURVEY DATA PROVIDED BY BENJAMIN F. FARROW III, PLS., L-5104
 - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, A CONSTRUCTION ENTRANCE AND SILT FENCING SHALL BE INSTALLED.
- DEVELOPMENT NOTES:**
- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH PENDER COUNTY UDO.
 - PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & PENDER COUNTY REGULATIONS.
 - NO SIGNS ARE PROPOSED AT THIS TIME. ANY FUTURE SIGNS TO BE PERMITTED SEPARATELY BY OTHERS.

- UTILITY NOTES:**
- EXISTING WATER SERVICE FROM PENDER COUNTY UTILITIES TO BE UTILIZED.
 - SANITARY SEWER SERVICE TO BE PROVIDED BY ONSITE SEPTIC SYSTEM. DESIGN AND PERMITTING BY OTHERS.
 - ALL PROPOSED UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS & TELEPHONE SHALL BE INSTALLED UNDERGROUND.
 - ALL WATER UTILITIES TO BE INSTALLED PER P.C.U. TECHNICAL SPECIFICATIONS & STANDARDS.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. CALL NC811 AT 811 OR 1-800-632-4949. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB & GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OR WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
 - THE PROCESS FOR TELEPHONE CABLE PLACEMENT: * FINAL GRADE WILL NEED TO BE ESTABLISHED. * POWER WILL PLACE THEIR CABLE FIRST - APPROXIMATELY 3' DEEP. * BELLSOUTH & CABLE TV WILL THEN PLACE THEIR CABLE AT APPROXIMATELY 2' DEEP.
 - SOLID WASTE DISPOSAL BY PRIVATE DUMPSTER SERVICE.
 - NO EXTERIOR SITE LIGHTING IS PROPOSED AT THIS TIME. ANY FUTURE LIGHTING TO MEET PENDER COUNTY UDO SECTION 7.11.
 - ALL WATER LINES TO BE BURIED AT 36" MIN. DEPTH

UTILITY PROVIDERS:
 SANITARY SEWER SERVICE PROVIDER: Private Septic.
 Pender County Utilities Phone: (910) 259-1570
 WATER SERVICE PROVIDER: 605 E Fremont St, Burgaw, NC 28425
 Duke Energy Progress Phone: (800) 452-2777
 1451 Military Cutoff Rd, Wilmington, NC 28403

- GENERAL TRAFFIC NOTES:**
- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS OFF THE R/W TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET LELAND AND/OR NCDOT STANDARDS.
 - ALL SIGNS AND PAVEMENT MARKINGS OFF RIGHT OF WAY ARE TO MEET/BE MAINTAINED TO MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 - ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10'.

- FIRE & SAFETY NOTES:**
- CONSTRUCTION TYPE: II-B (COMMERCIAL)
 - PROPOSED BUILDING WILL NOT BE SPRINKLED
 - PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS.
 - ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
 - FIRE EXTINGUISHERS, EXIT SIGNAGE, EMERGENCY LIGHTING SHALL BE INSTALLED PURSUANT TO NCSFC.
 - ANY GATES ON THE SITE MUST BE SIREN ACTIVATED
 - KNOX BOX REQUIRED AT THE FRONT DOOR & RISER ROOM.
 - BUILDER SHALL PROVIDE 15' ACCESS TO ALL PORTIONS OF THE EXTERIOR WALLS OF THE BUILDINGS FOR ACCESSIBILITY TO ALL PORTIONS OF THE BUILDING PURSUANT TO CHAPTER 5 NCSFC.
 - AREA TREE PLANTINGS WILL HAVE TO BE PLANTED/MAINTAINED TO NOT IMPEDE TRAVEL WAY FOR EMERGENCY VEHICLES. MUST PROVIDE AND MAINTAIN 20' UNOBSTRUCTED ACCESS WAY PURSUANT TO CHAPTER 5 NCSFC.
 - VISIBLE ADDRESSING FROM THE ROAD AND/OR APPLICABLE SIGNAGE FOR SUCH, PURSUANT TO CHAPTER 5 NCSFC.
 - MUST MAINTAIN 80' TURN AROUND AT ANY DEAD END, AS NECESSARY.
 - FIRE EXTINGUISHERS, EXIT SIGNS AND EMERGENCY LIGHTING, AS REQUIRED BASED ON EGRESS AND CONSTRUCTION.



REVISIONS

NO.	DATE	DESCRIPTION

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 5725 Oleander Dr. Unit E-7
 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: Charlie@intracoastalengineering.com
 License Number: P-0662

SITE, GRADING, & DRAINAGE PLAN
 FOR
INTRACOASTAL ANGLER HAMPSTEAD
 PENDER COUNTY, NC

CHARLES D. CALZIER
 PROFESSIONAL ENGINEER
 032555
 6/4/2024

CLIENT INFORMATION:
 Phillip David
 1516 Dawson Street
 Wilmington, NC 28401
 (910) 251-8088

DRAWN: JAE	SHEET SIZE: 24x36
CHECKED: CDC	DATE: 6/4/2024
APPROVED: CDC	SCALE: 1" = 30'
PROJECT NUMBER: 2024-002	

DRAWING NUMBER: **C-1**
 2 OF 5

REHOBOTH INVESTORS 2 LLC
3293-21-4351-0000
DB 4749, PG 2192
ZONING: GB
USE: VACANT

LBC BOTTLE SHOP INC
3293-20-9602-0000
DB 4811, PG 366
ZONING: GB
USE: COMMERCIAL

REGISTER STEVEN DALE
3293-21-8136-0000
DB 4819, PG 810
ZONING: GB
USE: COMMERCIAL

PORTION TRACT 1
COASTAL PLANTATION
PHASE 4 SECTION 1
CONSERVATION PARCEL
MAP BOOK 67 PAGE 32

SITE DATA

PARCEL ID: 3293-20-8908-0000
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CURRENT OWNER: PHILLIP DAVID
821 INLET VIEW DR
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TOTAL ACREAGE IN PROJECT BOUNDARY: 77,514 S.F. (± 1.78 ac.)
TOTAL DISTURBED AREA: ±1.8 ACRES

VICINITY MAP (NOT TO SCALE):



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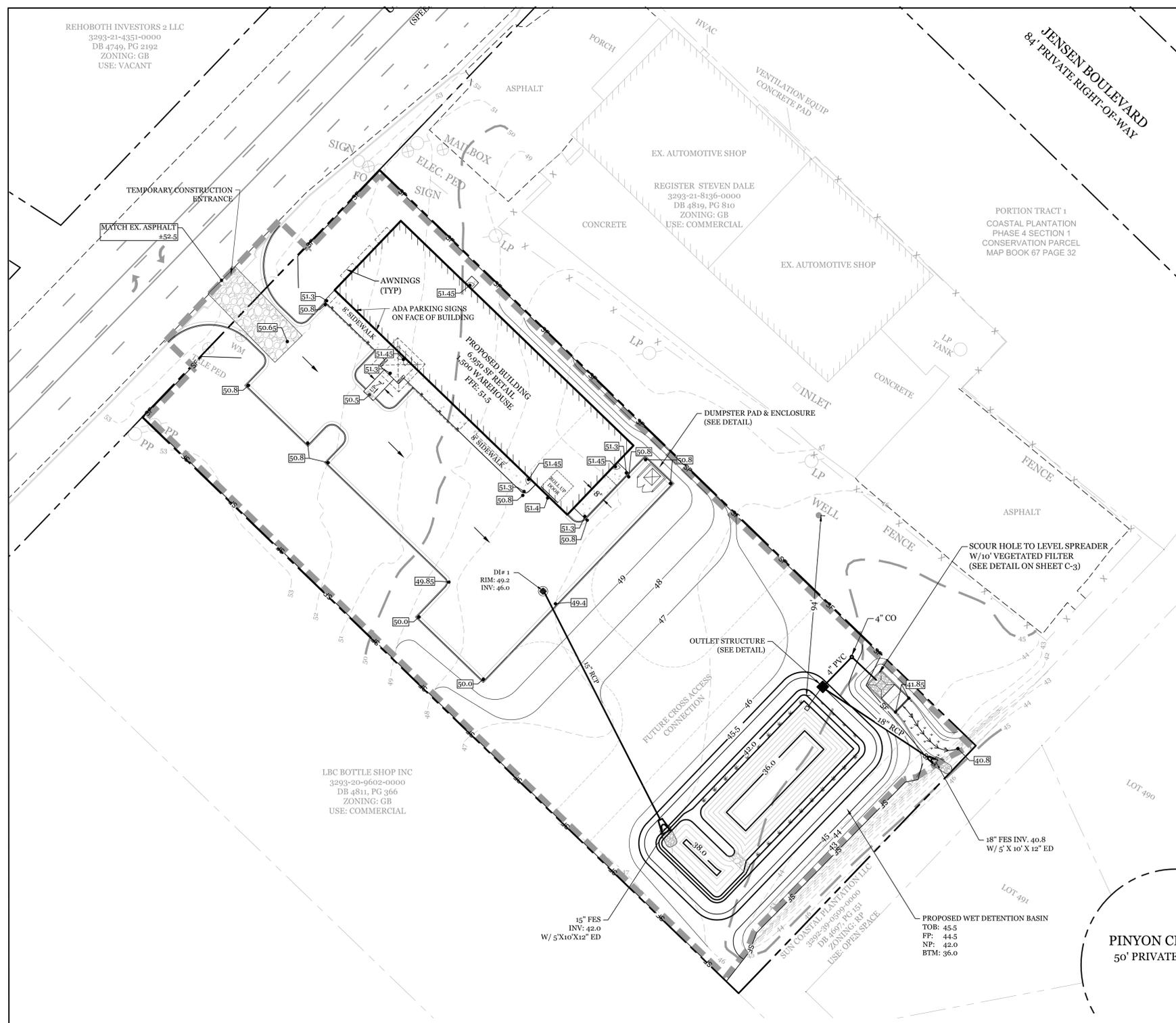
SEDIMENTATION & EROSION CONTROL PLAN
FOR
INTRACOASTAL ANGLER HAMPSTEAD
PENDER COUNTY, NC



CLIENT INFORMATION:
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1516 Dawson Street
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DRAWING NUMBER: **C-2**
30 of 5



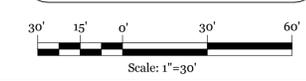
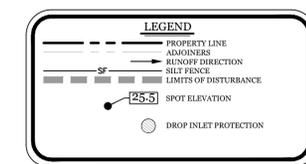
NORTH CAROLINA PERMANENT GRASSING DETAIL		NORTH CAROLINA TEMPORARY GRASSING DETAIL	
SEEDING MIXTURE SPECIES	APPLICATION RATE	SEEDING MIXTURE SPECIES	APPLICATION RATE
FALL & WINTER: Tall Fescue (blend of two or three improved varieties) Rye (grain)	200 (lb/acre) 25 (lb/acre)	LATE WINTER & EARLY SPRING: Rye (grain) Annual Lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) Omit annual Lespedeza when duration of temporary cover is not to extend beyond June	100 (lb/acre) 50 (lb/acre)
SPRING & SUMMER: Pensacola Bahiagrass Sericea Lespedeza Common Bermudagrass German Millet Tall Fescue	50 (lb/acre) 30 (lb/acre) 10 (lb/acre) 10 (lb/acre) 50 (lb/acre)	SUMMER: German Millet In the Piedmont and Mountains, a small-stemmed sundgrass may be substituted at a rate of 50 (lb/acre)	40 (lb/acre)
SEEDING DATES		FALL: Rye (grain)	120 (lb/acre)
FALL & WINTER: January - April August - December		SEEDING DATES	
SOIL AMENDMENTS: Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer.		LATE WINTER & EARLY SPRING: Mountains - Above 2500 ft. Feb. 15-May 15 Piedmont - Jan. 1-May 1 Coastal Plain - Dec. 1-Apr. 15	
MAINTENANCE: Fertilize according to soil tests or apply 40 lb/acre nitrogen in January or February, 40 lb in September and 40 lb in November, from a 12-4-8, 16-4-8, or similar turf fertilizer. Avoid fertilizer applications during warm weather, as this increases stand losses to disease. Re-seed, fertilize, and mulch damaged areas immediately. mow to a height of 2.5-3.5 inches as needed.		SUMMER: Mountains - May 15-Aug. 15 Piedmont - May 1-Aug. 15 Coastal Plain - Apr. 15-Aug. 15	
SPRING & SUMMER: April 1 - July 15		FALL: Mountains - Aug. 15-Dec. 15 Coastal Plain and Piedmont - Aug. 15-Dec. 30	
SOIL AMENDMENTS: Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer.		SOIL AMENDMENTS: Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.	
MAINTENANCE: Refer to the following April with 50 lb/acre nitrogen. Repeat as growth requires. may be moved only once a year. Where a neat appearance is desired, omit sericea and mow as often as needed.		MULCH: apply 4,000 lb/acre straw, 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.	
MULCH: apply 4,000 lb/acre straw, 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.		MAINTENANCE: Refer to the following April with 50 lb/acre nitrogen. Repeat as growth requires. may be moved only once a year. Where a neat appearance is desired, omit sericea and mow as often as needed.	

SYMBOL	GROUND STABILIZATION CRITERIA		
	SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
	* Perimeter dikes, ditches and slopes	7 Days	None
	* High Quality Water (HQW) Zones	7 Days	None
	* Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
	* Slopes 3:1 or flatter	14 Days	7-days for slopes greater than 50 ft. in length
	* All other areas with slopes flatter than 4:1	14 Days	None (except for perimeters & HQW Zones)

BUILDING WASTE HANDLING:
- NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS
- DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.
- EARTHEN MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.
- CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.

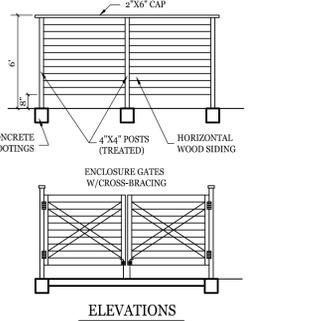
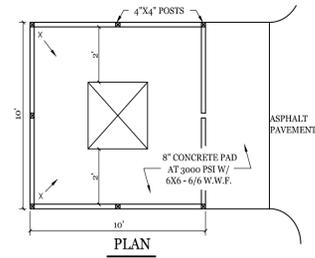
INSPECTIONS:
- SAME WEEKLY REQUIREMENTS
- SAME RAIN GAUGE & INSPECTIONS AFTER 0.50" RAIN EVENT.
- INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"
- INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.
- RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST.
- ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.

SEDIMENT BASINS:
- OUTLET STRUCTURES MUST BE WITHDRAWN FROM BASIN SURFACES UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE.
- USE ONLY DWQ APPROVED FLOCCULANTS.

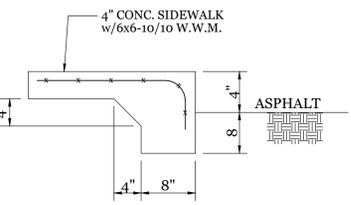


- MAINTENANCE PLAN:**
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
 - ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF 2-3 INCH 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.
 - SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION. ROCK DOUGHNUT INLET PROTECTION, SEDIMENT TRAP BAFFLES, AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
 - CHECK SEDIMENT BASIN AND BAFFLES WEEKLY & AFTER EACH RAINFALL EVENT. REMOVE SEDIMENT FROM TRAP & BAFFLES AND RESTORE TO ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT 1/2 THE DESIGN VOLUME. REPAIR / REPLACE BAFFLES IF TORN, COLLAPSED, OR INEFFECTIVE.
 - DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
 - SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
 - FAIRCLOTH SKIMMER TO BE ROUTINELY CHECKED FOR SEDIMENT ACCUMULATION, TRASH, AND DEBRIS CLOGGING THE WATER ENTRY ORIFICES. PULL SKIMMER TO SIDE OF BASIN AND HAND REMOVE SEDIMENT AND DEBRIS TO RESTORE FLOW TO ORIGINAL STATE.

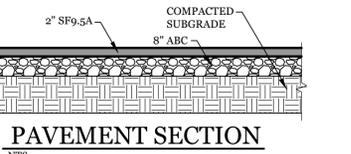
- CONSTRUCTION SEQUENCE:**
- CONSTRUCTION OF SITE TO START WITH INSTALLATION OF CONSTRUCTION ENTRANCE AND SILT FENCE ALONG ALL LOCATIONS PER PLANS. UPON INSTALLATION OF SILT FENCE, TREES SHOULD BE REMOVED IN LOCATIONS AS NECESSARY. CONSTRUCTION OF THE PROPOSED WET DETENTION BASIN TO BE DONE NEXT. FILL FROM EXCAVATED BASIN IS TO BE USED TO FILL LOWER PORTION OF THE SITE. ANY POOR SOILS ARE TO BE DISPOSED OF PER THE SITE WORK NOTES. AS THE LOWER PORTION OF THE SITE IS FILLED THE FILL IS TO DIRECT SURFACE RUNOFF BACK INTO THE SITE OR INTO THE EXCAVATED BASIN. STORMWATER COLLECTION SYSTEM SHOULD THEN BE INSTALLED TO CATCH SURFACE RUNOFF AND DIRECT IT TO THE WET DETENTION BASIN. ALL SLOPED AREAS SHOULD BE SEEDING IN ACCORDANCE TO SPECIFICATIONS. SLOPE STABILIZATION IS WITHIN 21 CALENDAR DAYS OF ANY PHASE OF CONSTRUCTION. ALL OTHER AREAS MUST BE STABILIZED WITHIN 15 WORKING DAYS. CONTRACTOR TO FOLLOW NPDES STABILIZATION REQUIREMENTS PER TABLE ON THIS SHEET AS WELL. MOST STRINGENT REQUIREMENT TO BE MET.
- GENERAL CLEARING AND GRADING OF THIS SITE WILL NOT BE DONE UNTIL THE TEMPORARY SILT FENCE & CONSTRUCTION ENTRANCE HAS BEEN INSTALLED.
 - NO CUT SLOPE OR FILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL).
 - NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SIDE SLOPES DURING AND AFTER CONSTRUCTION.
 - INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE & SEDIMENT BASINS. CONTRACTOR TO BE FAMILIAR WITH USACE GENERAL PERMIT CONDITIONS FOR ROAD CROSSINGS. SPECIFIC CONSTRUCTION METHODS MAY BE REQUIRED ABOVE AND BEYOND WHAT IS SPECIFIED IN THIS PLAN. INSTALL ALL SECONDARY EROSION CONTROL MEASURES, SUCH AS INLET PROTECTION AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.
 - ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET PROTECTION TO BE CLEANED WHEN HALF FULL.
 - A 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.
 - MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.
 - MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.



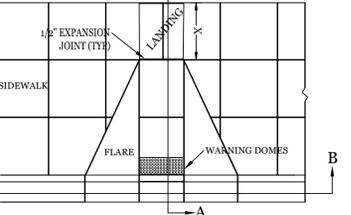
DUMPSTER PAD & ENCLOSURE DETAIL
NTS



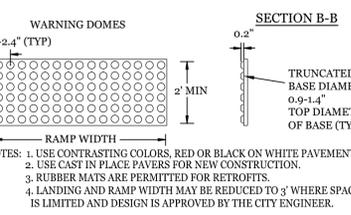
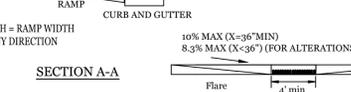
TURNDOWN SIDEWALK
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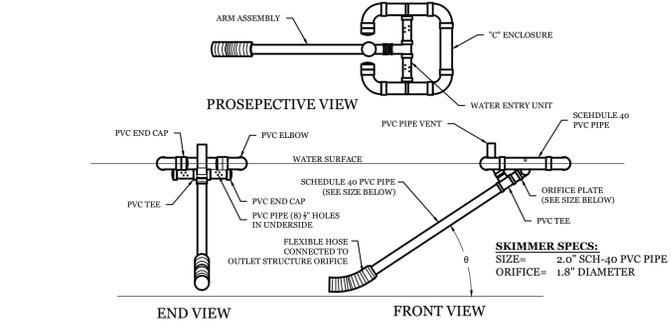
PAVEMENT SECTION
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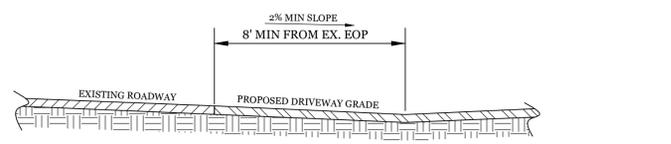
24" CURB SECTION
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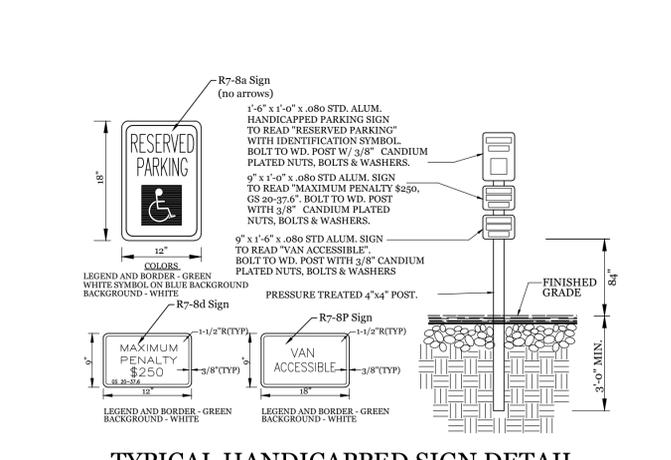
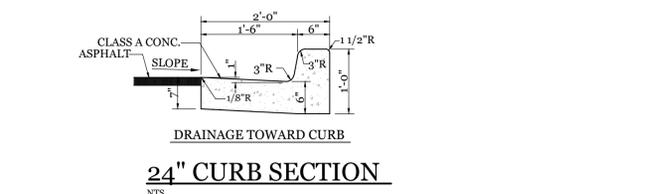
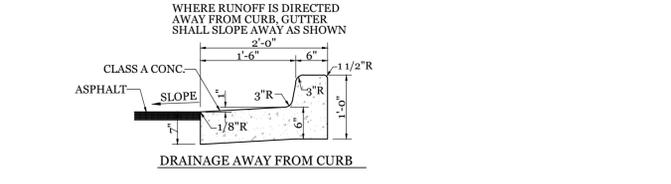
WHEEL CHAIR RAMP DETAIL
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FAIRCLOTH SKIMMER DETAIL
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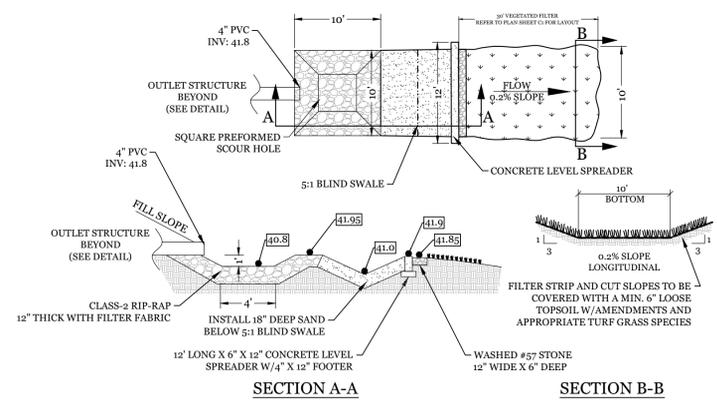


TYPICAL DRIVEWAY GRADING SECTION
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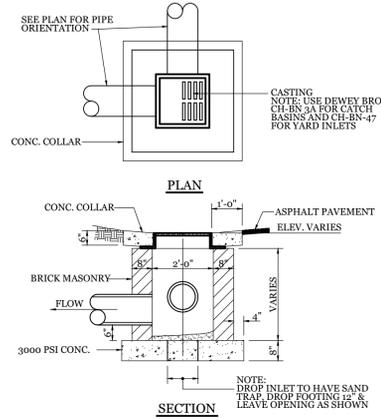


TYPICAL HANDICAPPED SIGN DETAIL
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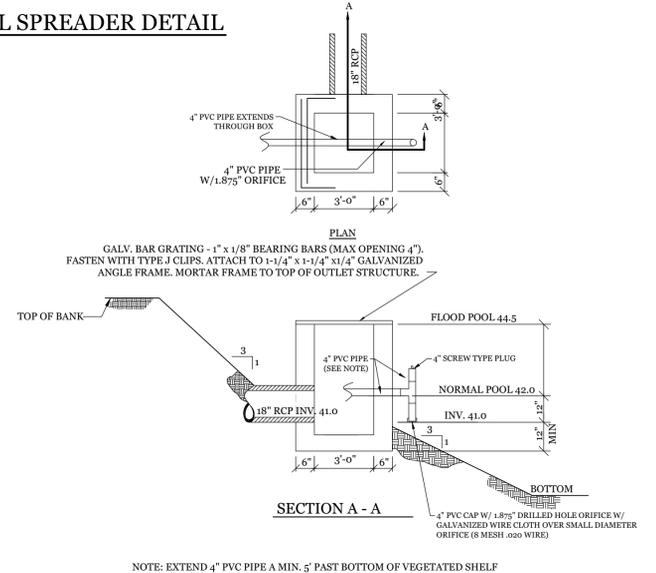
- SITE WORK NOTES:**
1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE.
 2. CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
 3. GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
 4. MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
 5. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
 6. FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS.
 7. THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
 8. THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
 9. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 10. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
 11. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS IN OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
 12. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
 13. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 14. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
 15. THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
 16. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CPDUA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
 17. ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY. GEOTECHNICAL ENGINEER TO BE CONSULTED AT CONTRACTORS COST AS NECESSARY.
 18. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
 19. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
 20. FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
 21. ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.



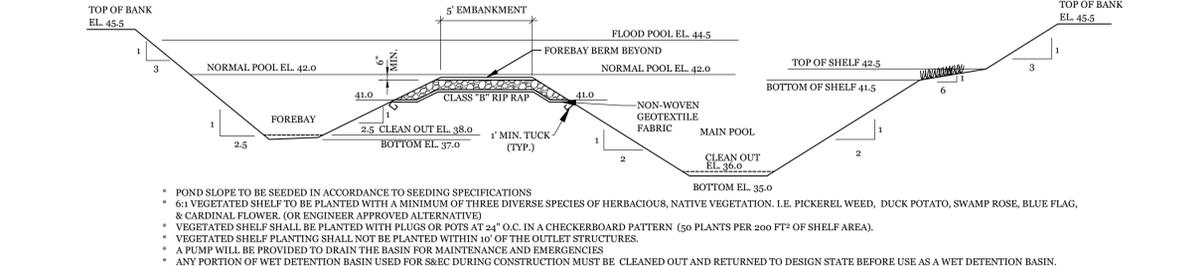
SCOUR HOLE WITH VEGETATED FILTER/LEVEL SPREADER DETAIL
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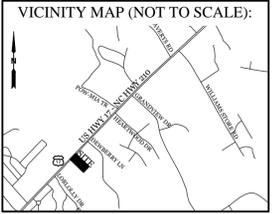
DROP INLET DETAIL
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DETENTION POND OUTLET STRUCTURE
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DETENTION POND & FOREBAY SECTION
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REVISIONS

NO.	DESCRIPTION

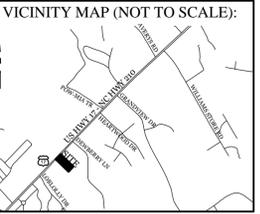
INTRACOASTAL ENGINEERING, PLLC
5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number: P-0662

DETAILS FOR INTRACOASTAL ANGLER HAMPSTEAD PENDER COUNTY, NC

CHARLES D. CALZIER
PROFESSIONAL ENGINEER
032555
6/4/2024

CLIENT INFORMATION:
Phillip David
1516 Dawson Street
Wilmington, NC 28401
(910) 251-8088

DRAWN: JAE	SHEET SIZE: 24x36
CHECKED: CDC	DATE: 6/4/2024
APPROVED: CDC	SCALE: NTS
PROJECT NUMBER: 2024-002	



REVISIONS

NO.	DESCRIPTION

INTRACOASTAL ENGINEERING, PLLC
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 Phone: 910.859.8983
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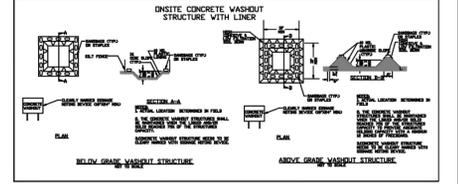
INTRACOASTAL ANGLER HAMPSTEAD
 PENDER COUNTY, NC

FOR DETAILS

CLIENT INFORMATION:
 Phillip Davidson
 1516 Dawson Street
 Wilmington, NC 28401
 (910) 251-8088

DRAWN: JAE SHEET SIZE: 24x36
 CHECKED: CDC DATE: 6/4/2024
 APPROVED: CDC SCALE: NTS
 PROJECT NUMBER: 2024-002

DRAWING NUMBER: **C-4**
 5 OF 5



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

- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any repair equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - 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 has been corrected.
 - 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.
 - 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.
 - Contain liquid wastes in a controlled area.
 - 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 foot traffic areas.
 - 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 with properly operating unit.

- EARTHEN STOCKPILE MANAGEMENT**
- 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 available.
 - 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.



GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCGO1 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 NCGO1 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.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	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 length and are not steeper than 2:1, 14 days are allowed -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
(d) Slopes 3:1 to 4:1	14	-10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground 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
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roller erosion control products with grass seed

- 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.
 - 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 offsite.
 - Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

NCGO1 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

PART III 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	Frequency (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 or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&S 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 outfalls (SDOs)	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: 1. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. 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, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(d) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S 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.

Note: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

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

2. Additional Documentation to be Kept on Site
 In addition to the E&S 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:

- This General Permit as well as the Certificate of Coverage, after it is received.
- 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 eNOI 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 III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING
1. Occurrences that Must be Reported
 Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- 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 (Ref. 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
 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 reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

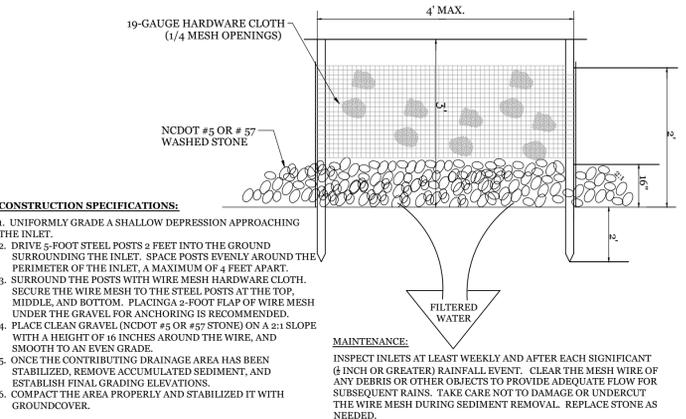
Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-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 with the federal or state impaired waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(c) Unanticipated bypasses 40 CFR 122.41(m)(3)	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(d) Noncompliance with the conditions of this permit that may endanger health or the environment 40 CFR 122.41(i)(7)	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6)]. Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

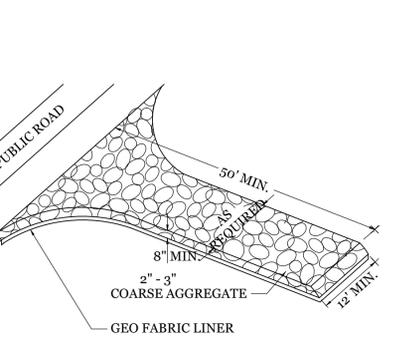
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw 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:

- The E&S 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&S plan authority has approved these items.
- 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.
- 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.
- Vegetated, upland areas of the site 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.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Felted 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.

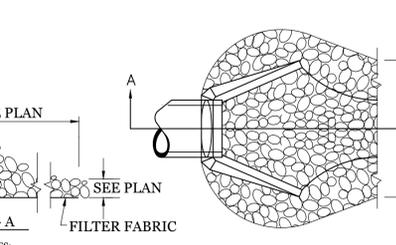
NCGO1 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19



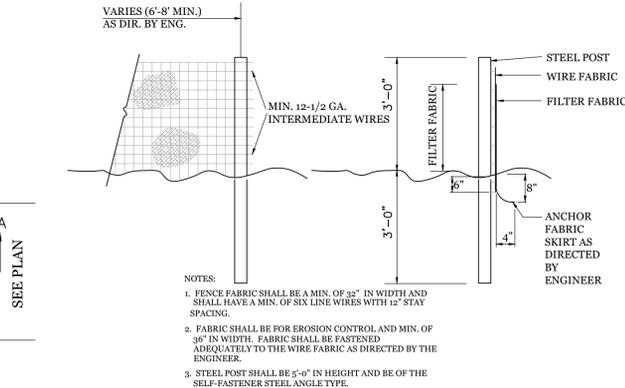
HARDWARE CLOTH AND GRAVEL INLET PROTECTION NTS



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE NTS



ENERGY DISSIPATOR NTS



TEMPORARY SILT FENCE NTS

