CONSTRUCTION PLANS FOR OLDE WATERFORD WAY EXTENSION

Waterford Commercial Leland, North Carolina





151 Poole Rd. Suite 100 | Leland, NC, 28451 TEL (910) 383-1044 | FAX (910) 383-1045 www.capefearengineering.com | N.C. LICENSE # C-1621 ISSUED FOR CONSTRUCTION

INDEX

COVER	
C-001	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
CD101	EXISTING CONDITIONS AND DEMOLITION PLAN
CS101	ROADWAY PLAN AND PROFILE
CS101A	ROADWAY CROSS SECTIONS
CS102	PAVEMENT MARKING AND SIGNAGE PLAN
CG101	STORMDRAIN PLAN
CG102	GRADING PLAN
CG103	EROSION CONTROL PLAN
C-500	SEDIMENT AND EROSION CONTROL DETAILS - 1
C-500A	SEDIMENT AND EROSION CONTROL DETAILS - 2
C-500B	SEDIMENT AND EROSION CONTROL DETAILS - 3
C-501	SITE DETAILS - 1
C-502	SITE DETAILS - 2
C-503	STORMDRAIN DETAILS - 1
C-504	STORMDRAIN DETAILS - 2
C-505	STORMDRAIN DETAILS - 3
C-506	PAVEMENT MARKING DETAILS



CIVIL GENERAL NOTES: ALL CONSTRUCTION SHALL COMPLY WITH THE TOWN OF LELAND DEVELOPMENT REGULATIONS AND STANDARDS.

- EXISTING UTILITY INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, VERIFICATION, SUPPORT AND PROTECTION OF ALL ABOVEGROUND AND UNDERGROUND UTILITIES TO REMAIN IN PLACE, INCLUDING ANY UTILITIES NOT INDICATED ON CONTRACT DRAWINGS. ANY CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE OWNER'S AND ENGINEER'S ATTENTION IMMEDIATELY.
- CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, TREES, PAVEMENT, UTILITIES, AND OTHER PROPERTY UNLESS THEY ARE TO BE DEMOLISHED. ANY PROPERTY NOT AUTHORIZED FOR REMOVAL, BUT DAMAGED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. PROPERTY IRONS, MONUMENTS, AND OTHER PERMANENT POINTS OF REFERENCE DESTROYED BY THE CONTRACTOR SHALL BE REPLACED BY A NORTH CAROLINA LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAKE SURE THAT WORK PERFORMED UNDER THIS CONTRACT SHALL NOT IMPACT THE OPERATION OF ANY ADJACENT PROPERTIES.
- CONTRACTOR SHALL SEQUENCE WORK AS NECESSARY TO ENSURE THAT ALL UTILITY SERVICES, INCLUDING FIRE HYDRANTS, REMAIN OPERATIONAL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AND STAGING AREAS USED BACK TO THEIR ORIGINAL CONDITION. ALL DISTURBED AREAS SHALL BE VEGETATED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL TAKE ADEQUATE PROTECTIVE MEASURES TO ENSURE THAT EXISTING PAVEMENT SURFACES ARE NOT DAMAGED FROM TRACKED CONSTRUCTION EQUIPMENT OR ANY OTHER POSSIBLE SOURCE WHEN EQUIPMENT IS BEING MOVED DURING AND AFTER WORK IS BEING CONDUCTED. CONTRACTOR SHALL REPAIR ANY PAVED AREAS DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNER.
- EXISTING PAVEMENTS AND ALL OTHER AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAN AT ALL 9. TIMES, DO NOT ALLOW BUILD UP OF SOIL, MUD, DUST OR OTHER DEBRIS.
- 10. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEYING AND STAKING TO COMPLETE THE WORK.
- 11. ANY AND ALL MATERIAL QUANTITIES INDICATED ON THIS PLAN SET ARE FOR REFERENCE ONLY. CONTRACTOR MUST VERIFY ALL MATERIAL QUANTITIES SHOWN
- EXISTING CONDITION AND SURVEY NOTES:
- . ALL HORIZONTAL DATUM IS BASED ON NAD 83 NORTH CAROLINA STATE PLANE US FOOT AND VERTICAL DATUM IS BASED ON NAVD 88.
- 2. THE UTILITIES, SITE FEATURES AND ONSITE TOPOGRAPHY SHOWN IN THESE CONSTRUCTION DRAWINGS HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION PERFORMED BY CAPE FEAR ENGINEERING, INC.
- 3. ALL DISTANCES ARE GROUND HORIZONTAL & IN FEET UNLESS OTHERWISE NOTED.
- I. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES AND SITE FEATURES SHOWN COMPRISE ALL UTILITIES AND SITE FEATURES IN THE AREA EITHER IN SERVICE OR ABANDONED. CAPE FEAR ENGINEERING, INC. FURTHER DOES NOT WARRANT THAT THE UTILITIES AND SITE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED. CAPE FEAR ENGINEERING HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- NO NATURAL SURFACE WATERS, WETLANDS, REGULATORY FLOOD ZONES, PROTECTED VEGETATED SETBACKS, AND PROTECTED RIPARIAN BUFFERS EXIST WITHIN THE PROJECT BOUNDARY.

DEMOLITION PLAN NOTES:

- ALL CONSTRUCTION DEBRIS NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES AND COORDINATE DEMOLITION AND / OR RELOCATION WORK. ONCE LOCATED IN THE FIELD POSITIVE VERIFICATION BY POTHOLING MAY BE REQUIRED. REPORT ANY CONFLICTS OR DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL MINIMIZE IMPACT OF TEMPORARY STORAGE OF EXCAVATED SOILS.
- DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL ITEMS, INCLUDING ALL EXCAVATED MATERIALS NECESSARY TO COMPLETE WORK WITHIN THIS CONTRACT.
- WHERE ASPHALT/CONCRETE DEMOLITION IS REQUIRED, CONTRACTOR SHALL USE A SAW CUT AT THE LIMITS OF DEMOLITION OR NEAREST JOINT TO OBTAIN A CLEAN VERTICAL EDGE.
- DEMOLITION AND SUBSEQUENT CONSTRUCTION OF STORMDRAIN FACILITIES SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES ARE REMOVED AND NEW STRUCTURES AND PIPING ARE IMMEDIATELY PUT INTO SERVICE. CONTRACTOR SHALL ENSURE THAT STORMDRAIN DOES NOT REMAIN OUT OF SERVICE FOR LONGER THAN 12-HOURS AT A TIME. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO MAINTAIN PROPER STORM DRAINAGE DURING CONSTRUCTION.
- DEDICATED DEMOLITION AND OTHER WASTE AREAS/EARTHEN MATERIAL STOCKPILES MUST BE LOCATED AT LEAST 50' FROM STORMDRAINS OR STREAMS.
- . REMOVE AND DISPOSE OF ALL TREES AND STUMPS AS REQUIRED FOR PROJECT CONSTRUCTION.
- 9. ALL PIPING INDICATED FOR DEMOLITION TO BE REMOVED UNLESS NOTED FOR ABANDONMENT.

10. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY IMPACTED LANDSCAPE AREAS IN LIKE KIND. SIGNAGE, STRIPING, AND MARKING NOTES:

- CONTRACTOR SHALL COMPLY WITH THE CURRENT TOWN OF LELAND AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE 2018 NCDOT PROJECT SPECIAL PROVISIONS UNLESS OTHERWISE NOTED.
- CONFORM ALL SIGNS AND TRAFFIC CONTROL DEVICES TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). (CURRENT VERSION)
- USE THE COLOR WHITE FOR ALL PAVEMENT MARKINGS AND SYMBOLS UNLESS OTHERWISE NOTED.
- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.
- ANY EXISTING PAVEMENT MARKINGS IN THE VICINITY OF THE PROJECT LIMITS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED.
- PEDESTRIAN CROSSWALKS AT NON CONTROLLED LOCATIONS SHALL BE HIGH VISIBILITY. ALL CONTROLLED LOCATIONS SHALL BE STANDARD.
- ALL STRIPING SHALL BE THERMOPLASTIC.

PAVEMENT NOTES:

- 3 STANDARDS AND SPECIFICATIONS.
- TO ISSUNG FOR CONSTRUCTION. STORMWATER AND GRADING NOTES:

- ADJUSTMENTS AND/OR RELOCATIONS.
- THAT WILL PROVIDE PROPER DRAINAGE AT ALL TIMES.
- AND DEBRIS.
- 8.
- 9

SEDIMENTATION OPERATION & MAINTENANCE NOTES:

- 1. THE TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 1.93 ACRES.
- ALL PRACTICES AS DESIGNED.
- SEDIMENT FROM BEING TRANSPORTED OFFSITE.

SEQUENCE OF PRELIMINARY LAND DISTURBANCE:

- 1. PRECONSTRUCTION CONFERENCE TO BE HELD PRIOR TO BEGINNING.
- 2. DETERMINE AND MARK LIMITS OF DISTURBANCE.
- EXISTING STRUCTURES.
- TOPSOIL REMOVAL AND/OR STORAGE.
- 6. BRING SITE TO ROUGH FINAL GRADE.
- SIGNIFICANT RAINFALL EVENT (1.0" OR GREATER).
- MORE THAN 14 DAYS.

SEQUENCE OF FINAL LAND DISTURBANCE:

- ON PLAN FOR STORMDRAIN INSTALLATION.
- 2. INSTALL STORMDRAIN FACILITIES.
- 3. INSTALL TEMPORARY INLET PROTECTION.
- 4. BRING SITE TO FINAL GRADE.
- OUTLETS, AND SEDIMENT BASIN.
- SIGNIFICANT RAINFALL EVENT (1.0" OR GREATER).
- MORE THAN 14 DAYS.
- GRASS.

POND BACKFILL AND COMPACTION:

- 1. DEWATER EXISTING POND/BASIN.
- AND RE-ROUTED.
- MATERIAL. THIS CAN BE 24" OR GREATER.
- STANDARD PROCTOR (ASTM D698)
- 6. COMPACT TOP 12" TO 98% OF STANDARD PROCTOR (ASTM D698).

CONTRACTOR SHALL PROVIDE JOINTS IN CONCRETE PAVEMENT (CONTRACTION, EXPANSION AND DOWELED CONSTRUCTION JOINTS) AS REQUIRED TO CONTROL CRACKING.

WHERE CONCRETE PAVEMENT ABUTS ASPHALT PAVEMENT, BUILDINGS, OR OTHER STRUCTURE, THE CONTRACTOR SHALL INSTALL A THICKENED CONCRETE EDGE AND EXPANSION JOINT.

ALL PAVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT TOWN AND NCDOT

4. PAVEMENT SECTIONS FOR THIS PROJECT WILL BE CONFIRMED BY A GEOTECHNICAL ENGINEER PRIOR

PROJECT SITE WILL DRAIN OFF-SITE TO EXISTING STATE STORMWATER PERMIT SW8 020510.

THERE ARE NO WETLANDS LOCATED WITHIN THE PROJECT BOUNDARY.

ALL RUNOFF IS TO BE DIRECTED TO THE STORMWATER COLLECTION SYSTEM.

4. CONTRACTOR SHALL COORDINATE WITH THE UTILITY PROVIDERS FOR REQUIRED UTILITY

ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

6. DURING CONSTRUCTION, CONTRACTOR SHALL PERFORM GRADING IN A MANNER AND SEQUENCE

UPON THE COMPLETION OF CONSTRUCTION AND SITE STABILIZATION, ALL PROPOSED AND EXISTING PIPES AFFECTED BY CONSTRUCTION SHALL BE CLEANED OUT TO REMOVE ALL ACCUMULATED SILT

ALL STORMDRAIN TO BE REINFORCED CONCRETE PIPE (RCP) CLASS III UNLESS NOTED OTHERWISE

UNLESS OTHERWISE NOTED, ALL STORMDRAIN MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO TOWN AND NCDOT STANDARDS AND SPECIFICATIONS.

2. 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. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN

3. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSPECTED WEEKLY IN ORDER TO KEEP

3. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET PROTECTION ON

5. INSTALL NEW STORMDRAIN AND NEW INLET PROTECTION.

7. INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES EVERY 7 DAYS AND AFTER EACH

8. PLACE TEMPORARY SEEDING ON ALL PERIMETER SWALES AND ALL AREAS WITH SLOPES GREATER THAN 3:1 THAT ARE TO BE LEFT IDLE FOR MORE THAN 7 DAYS. PLACE TEMPORARY SEEDING ON ALL OTHER DISTURBED AREAS THAT ARE TO BE LEFT IDLE FOR

1. RELOCATE SILT FENCE AND SILT FENCE ROCK OUTLETS ADJACENT TO POND AS INDICATED

5. MAINTAIN TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SILT FENCE, SILT FENCE ROCK

6. INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES EVERY 7 DAYS AND AFTER EACH

7. PLACE TEMPORARY SEEDING ON ALL PERIMETER SWALES AND ALL AREAS WITH SLOPES GREATER THAN 3:1 THAT ARE TO BE LEFT IDLE FOR MORE THAN 7 DAYS. PLACE TEMPORARY SEEDING ON ALL OTHER DISTURBED AREAS THAT ARE TO BE LEFT IDLE FOR

8. PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE AND IN SEASON. FERTILIZE, WATER AND RESEED AS REQUIRED TO ESTABLISH A VIGOROUS STAND OF

9. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT FROM SILT FENCE AND SPREAD EVENLY ACROSS THE SITE. REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT BASIN (POND #14). GRASS THESE AREAS IMMEDIATELY AND REMOVE ALL EROSION CONTROL MEASURES.

2. ENSURE ALL CONTRIBUTING DRAINAGE PIPE AND FLOWS TO THE POND ARE TERMINATED

3. REMOVE VEGETATION AND DEMUCK TO REMOVE ALL COLLECTED SEDIMENT AND ORGANIC

4. EXPOSED SUBGRADE SHOULD BE EVALUATED BY GEOTECHNICAL ENGINEER PRIOR TO FILL PLACEMENT AND UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED.

5. BACKFILL WITH STRUCTURAL FILL (MAX 8-10" LOOSE LIFTS) AND COMPACT TO 95%

Α

L	EGEND	$\overline{\ }$		
PROPERTY BOUNDARY				
EX. CONTOUR			PROJECT	
EX. EASEMENT			SITE	
EX. STORMDRAIN				
EX. 8" WATERLINE	8W			
EX. 12" WATERLINE				
EX. 2" FORCEMAIN	2FM		VICINITY MA	P (
EX. GRAVITY SEWER	8SS			
EX. WATER VALVE	IN WV			
EX. FIRE HYDRNAT	•_FH		GENERAL NOTES.	
EX. SSMH				
ADJOINER			ISSUED FOF	
EX. SD INLET				DN J
EX. JUNCTION BOX				
EXISTING FES)
EXISTING POND				
EXISTING ASPHALT				
ASPHALT PAVEMENT				
HEAVY DUTY CONCRETE				
SIDEWALK				
CURBING	······			
CROSSWALK				
PROPOSED MINOR CONTOU	JR			
PROPOSED MAJOR CONTO	UR 25			
HIGH/I OW POINT	HI/LO			MTH
PROPOSED SPOT ELEVATIO	\uparrow			06/27/22
RIGHT OF WAY			# DESCRIPTION	DATE
	ON		REVISIONS	
EASEMENT				
STORMDRAIN PIPE			WINNING CAROL	
STORMDRAIN INLET			11 A ROFESSION 11 A ROFESSION	
JUNCTION BOX	Ø		SEAL 038615	
INLET PROTECTION			E ANT	
SILT FENCE	O			inin .
LIMITS OF DISTURBANCE				J
	ON FY FY			
SILT FENCE ROCK OUTLET	888		T Town of 1	nd
			TLCIA	IIU
			102 Town Hall Leland, NC 28	Drive 451
ADA CO	AMERICAN DISABILITY ACT			
CL				
DIP				
EX. EXT	EXISTING			
FES FH	FLARED END SECTION			
FM	FORCEMAIN GATE VALVE AND BOX		CAPE FEAR ENGINEER 151 Poole Rd. Suite 100 Lelar	tING nd, NC, 28451
HI			TEL (910) 383-1044 FAX (91 www.capefearengineering.com N.C	0) 383-1045 . LICENSE # C-1621
	LINEAR FEET		PROJECT 541-09	
MAX.	MAXIMUM		NUMBER : STATUS SCALE : AS SHOWN	
MEP	MAP CABINET MECHANICAL-ELECTRICAL-PLUMBING	G	DATE :	
NCDEQ	NORTH CAROLINA DEPARTMENT OF			
NCDOT	NORTH CAROLINA DEPARTMENT OF			
MUTCD	MANUAL ON UNIFORM TRAFFIC CON	TROL		RD WAY
NDB	NYOPLAST DRAINAGE BASIN		EXTENSIC	DN
ROW	RIGHT OF WAY			
SD SEP.	STORMURAIN SEPARATION			
SK SS	STATE ROAD SANITARY SEWER		GENERAL NOTES	LEGEND,
SSMH STA.	SANITARY SEWER MANHOLE STATION			ATIONS
SW TYP.	STORMWATER TYPICAL)
U.E. WL	UTILITY EASEMENT WATERLINE			
			041-09	



OLDE WATERFORD WAY EXTENSION CROSS SECTION 11+00

40.00

30.00

OLDE WATERFORD WAY EXTENSION CROSS SECTION 17+00

OLDE WATERFORD WAY EXTENSION CROSS SECTION 17+80.53

SIGNAGE SCHEDULE* (PER MUTCD):					
SIGNAGE	CODE	QTY			
STOP SIGN	R1-1	3			
SPEED LIMIT	R2-1	2			
YIELD SIGN	R1-2	1			
DIVIDED HIGHWAY SIGN	W6-1	1			
PEDESTRIAN CROSSING	W11-2 W/ W16-7P	6			
ROUNDABOUT	W16-17P	1			

AND THE OWNER MAY REQUIRE ADDITIONAL SIGNAGE.

TH:P:541 TOWN OF LELAND:541-09 OLDE WATERFORD WAY/OLDE WATERFORD WAY ENGINEERING/DWG/CONSTRUCTION/541-09 - OLDE WATERFORD WAY EXTENSION - MASTER.DW

1. FILTER FABRIC UNDERLAY SHALL BE INSTALLED BETWEEN STONE AND SOIL FOUNDATION. 2. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SECTION 6.06 OF THE NCDEQ EROSION CONTROL PLANNING AND DESIGN MANUAL.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE NOT TO SCALE

MULCHING MATERIALS AND APPLICATION RATES

MATERIAL	RATE PER ACRE	QUALITY	NOTES
STRAW	2 TONS	DRY, UNCHOPPED, UNWEATHERED; AVOID WEEDS	SHOULD COME FROM WHEAT OR OATS SPREAD BY HAND OR MACHINE, MUST BE TACKED DOWN

TEMPORARY SEEDING

TEMPURARY SEEDING					
TIME OF SEEDING	GRASS TYPE	AMOUNT/ ACRE	FERTILIZATION/ ACRE	FE	ERTILIZATION/ACRE MAINTENANCE
DEC 1-APR 15	RYE (GRAIN) & LESPEDEZA, KOBE	120 LBS. & 50 LBS.	750 LBS. 10-10-10	NA	NA
APR 15-AUG 15	GERMAN MILLET	40 LBS.	750 LBS. 10-10-10	NA	NA
AUG 15-DEC 30	RYE (GRAIN)	120 LBS.	1,000 LBS. 10-10-10	NA	NA

PERMANENT SEEDING

NCDEQ ESCM SEED MIX	TIME OF SEEDING	GRASS TYPE	AMOUNT/ ACRE	FERTILIZ ACF	ATION/ RE
NO. 1CP (WELL TO POORLY DRAINED SOILS W/ GOOD MOISTURE RET; LOW MAINTENANCE)	15 FEB - 30 APR OR 01 SEPT - 31 OCT	TALL FESCUE PENSACOLA BAHIAGRASS SERICEA LESPEDEZE KOBE LESPEDEZA	80 LBS 50 LBS 30 LBS 10 LBS	1,000 LBS	10-10-10 *
NO. 2CP (POORLY DRAINED SOILS W/ GOOD MOISTURE RET; HIGH MAINTENANCE)	15 FEB - 30 APR AND 01 SEPT - 31 OCT	TALL FESCUE RYE (GRAIN)	200 LBS 25 LBS	1,000 LBS	10-10-10 *
NO. 4CP (WELL DRAINED SANDY LOAMS TO DRY SANDS; LOW-MED MAINTENANCE)	01 MAR - 31 JUNE	CENTIPEDEGRASS	10-20 LBS 33 BU/AC (SPRIGS)	300 LBS	10-10-10 *
NO. 5CP (WELL DRAINED SANDY LOAMS TO DRY SANDS; LOW MAINTENANCE)	01 APR - 15 JULY	PENSACOLA BAHIAGRASS SERICEA LESPEDEZA COMMON BERMUDAGRASS GERMAN MILLET	50 LBS 30 LBS 10 LBS 10 LBS	500 LBS	10-10-10 *

NOTE: FERTILIZATION RATES ABOVE ARE GENERAL GUIDANCE BASED ON THE NORTH CAROLINA SEDIMENTATION AND EROSION CONTROL MANUAL. CONTRACTOR SHALL HAVE THE ONSITE SOILS TESTED TO DETERMINE THE SPECIFIC NUTRIENT REQUIREMENTS. SUBMIT SOIL TEST RECOMMENDATIONS AND RESULTS FOR ENGINEER REVIEW. CONTRACTOR MAY SUBMIT OTHER SPECIES OF TEMPORARY SEED FOR APPROVAL PROVIDED SPECIES ARE IN ACCORDANCE WITH NCDEQ ESCM.

NEW STABILIZATION TIMEFRAMES					
	SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS		
	PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE		
Contraction of the second seco	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' IN LENGTH.		
	ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES		

NOTE: TEMPORARY SEEDING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 6.10 OF THE NCDEQ EROSION CONTROL PLANNING AND DESIGN MANUAL.

VEGETATION SCHEDULE NOT TO SCALE

1. ALL SILT FENCE MATERIAL SHALL MEET OR EXCEED ASTM D 6461 2. SILT FENCE SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SECTION 6.62 OF THE NCDEQ EROSION CONTROL PLANNING AND DESIGN MANUAL.

			ALS HAN	IDLING PRACTICES FOR COMPLIANCE WITH		
THE	HE NCG01 CONSTRUCTION GENERAL PERMIT					Mair
nple	ementing the details a	ind specificati	2.	Prov		
ctiv	ity being considered c	ompliant with the Ground Stabilization and Materials Handli			3.	Iden
ecti	ons of the NCG01 Con	struction Gen	neral Per	mit (Sections E and F, respectively). The		proje
erm	nittee shall comply wit	the Erosion	and Sec	liment Control plan approved by the	4.	Colle
lele	gated authority having	g jurisdiction.	All detai	Is and specifications shown on this sheet		haza
nay	not apply depending of	on site conditi	ions and	the delegated authority having jurisdiction.	5.	Rem
FCT	ION F. GROUND STAF					has k
					6.	Bring
	Ke	equired Grour	nd Stabi	lization limetrames		to a
		Stabilize wit	thin this			
Si	te Area Description	many calend	dar	Timeframe variations		
		land disturb	easing			K, DUI
(2)	Dorimotor dikos		ance			Never
(a)	swales ditches and	7		None	Ζ.	Provid
	perimeter slopes	/		None		recep
					3.	Locate
(b)	High Quality Water	7		None		water
	(HQW) Zones	-			4.	Locate
(c)	Slopes steeper than			If slopes are 10' or less in length and are		Course
. ,	3:1	7		not steeper than 2:1, 14 days are	5.	Cover
				allowed		
				-7 days for slopes greater than 50' in	b. _	ANCH
				length and with slopes steeper than 4:1	/.	Empt
/ N		1.4		-7 days for perimeter dikes, swales,		conta
(d)	Slopes 3:1 to 4:1	14		ditches, perimeter slopes and HQW	8.	Dispo
				Zones	9.	On bu
				-10 days for Falls Lake Watershed		
				-7 days for perimeter dikes, swales,	PAIN	
(e)	Areas with slopes			ditches, perimeter slopes and HQW Zones	1.	Do n
. ,	flatter than 4:1	14		-10 days for Falls Lake Watershed unless	2.	Locat
				there is zero slone		wate
lote	: After the permanent	t cessation of	construe	ction activities, any areas with temporary	3.	Cont
lote rou	: After the permanent nd stabilization shall b	t cessation of be converted t	constructor perma	ction activities, any areas with temporary anent ground stabilization as soon as	3. 4.	Conta Conta
lote grou pract	: After the permanent nd stabilization shall b ticable but in no case l	t cessation of be converted t longer than 90	construc to perma 0 calend	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing	3. 4. 5.	Conta Conta Preve
lote grou pract	After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun	t cessation of be converted t longer than 90 d stabilization	constructo to perma 0 calend 1 shall be	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the	3. 4. 5.	Cont Cont Preve cons
rou ract ctiv urfa	After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce	t cessation of be converted t longer than 90 d stabilization elerated erosic	construc to perma 0 calend n shall be on until j	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved.	3. 4. 5.	Conta Conta Preve const
yrou oract oract oract octiv urfa	e: After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S	t cessation of be converted t longer than 90 d stabilization elerated erosic	construc to perma 0 calend n shall be on until N	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved.	3. 4. 5.	Cont Cont Preve cons
irou ract ctiv urfa RO tabi	After the permanent nd stabilization shall b ticable but in no case ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r	construc to perma 0 calend n shall be on until <u>N</u> rain will	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the	3. 4. 5. <u>POR</u> 1.	Conta Conta Preve const TABLE
rou oract oract urfa GRO otabi	After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low:	construc to perma 0 calend n shall be on until <u>N</u> rain will	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the	3. 4. 5. POR 1.	Conta Conta Preve const TABLE Instal streat
irou ctiv urfa 6RO tabi	e: After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be Temporary Stabiliza	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low:	constructo to perma 0 calend n shall be on until <u>N</u> rain will	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization	3. 4. 5. POR 1.	Conta Conta Preve const TABLE Instal streat offset
irou ractiv urfa GRO tabi echi	After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be Temporary Stabiliza	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or	constructo to perma 0 calend n shall be on until <u>N</u> rain will	there is zero slope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or	3. 4. 5. POR 1.	Conta Conta Preve const TABLE Instal streat offset on a g
lote rou ract ctiv urfa iRO tabi echi	e: After the permanent nd stabilization shall b ticable but in no case ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be Temporary Stabilization ther mulches and tackifiers	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation	constructo to perma 0 calend n shall be on until N rain will • Permar other n	there is zero slope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers	3. 4. 5. <u>POR</u> 1. 2.	Cont Cont Preve cons TABLE Instal strea offse on a g Provi
ote rou ract ctiv urfa iRO tabi tabi tabi tabi	e: After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding plied erosion control produc	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or	construct to perma 0 calend n shall be on until N rain will • Permar other n • Geotex reinfor	there is zero slope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers ttile fabrics such as permanent soil cement matting	3. 4. 5. POR 1. 2.	Cont Cont Preve cons TABLE Instal strea offse on a g Provi foot 1
Iote rou ractiv urfa iRO tabi echi echi • Te ot • Ro w	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or	constructo to perma 0 calend n shall be on until <u>N</u> rain will • Permar other n • Geotex reinfore • Hydros	there is zero slope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers ttile fabrics such as permanent soil cement matting eeding	3. 4. 5. POR 1. 2. 3.	Cont Cont Preve cons TABLE Instal strea offse on a g Provid foot t Moni
Iote rou ractiv urfa iRO tabi echi • Te ot • H • R ot • A	e: After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or	construct to perma 0 calend n shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs	there is zero slope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tille fabrics such as permanent soil cement matting eeding or other permanent plantings covered	3. 4. 5. POR 1. 2. 3.	Cont Cont Preve cons TABLE Instal strea offse on a Provi foot Moni Utiliz with
Iote rou ractiv urfa iRO tabi echi • Te ot • H • Ro w • Ro w • Pl	e: After the permanent nd stabilization shall b ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend n shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch	3. 4. 5. 1. 2. 3.	Cont Cont Preve cons TABLE Instal strea offse on a Provi foot Utiliz with
Iote rou ractiv urfa iRO tabi echi • Te ot • Re w • Ap • Pl	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table bel Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend n shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr	there is zero slope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover	3. 4. 5. POR 1. 2. 3.	Cont Cont Preve cons TABLE Instal strea offse on a Provi foot Moni Utiliz with
Iote rou ractiv urfa iRO tabi echi • Te ot • H • R • R • Pi	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend n shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the <u>Permanent Stabilization</u> nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover int to restrain erosion real methods such as concrete, asphalt or	3. 4. 5. 1. 2. 3.	Cont Cont Preve cons TABLE Insta strea offse on a Provi foot Moni Utiliz with
Iote rou ctiv urfa iRO tabi echi • Te ot • Ro w • Ap • Pl	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table bel Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir	there is zero slope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the <u>Permanent Stabilization</u> ment grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover int to restrain erosion tral methods such as concrete, asphalt or ng walls	3. 4. 5. 1. 2. 3. <u>EAR</u> 1.	Cont Cont Preve cons TABLE Insta strea offse on a Provi foot Utiliz with
Iote rou ctiv urfa iRO tabi echi • Te ot • Ro w • Ap • Pl	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table bel <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend n shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled	there is zero shope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed	3. 4. 5. POR 1. 2. 3. EAR 1.	Cont Cont Preve cons TABLE Insta strea offse on a Provi foot Moni Utiliz with THEN S Show 50 fe
Iote rou ractiv urfa GRO tabi echi • Te ot • Hv • Ro w • Pl	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend n shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled	there is zero stope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed	3. 4. 5. POR 1. 2. 3. EAR 1.	Cont Cont Preve cons TABLE Instal strea offse on a Provi foot Moni Utiliz with THEN S Show 50 fe and s
Jote grou oractiv urfa GRO itabi echi • Te ot • Hv • Ro w • Pl	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend in shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed	3. 4. 5. POR 1. 2. 3. EAR 1.	Cont Cont Previ cons TABLE Insta strea offse on a Provi foot Moni Utiliz with THEN S Show 50 fe and s avail
Artic Article	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization ment grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed	3. 4. 5. POR 1. 2. 3. EAR 1. 2.	Cont Cont Preve cons TABLE Insta strea offse on a Provi foot Utiliz with THEN S Show 50 fe avail Prote
A A A A A A A A A A A A A A	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch	construct to perma 0 calend in shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the ment grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed	3. 4. 5. POR 1. 2. 3. EAR 1. 2.	Cont Cont Previ cons TABLE Insta strea offse on a Provi foot Moni Utiliz with THEN S Show 50 fe avail Prote
Anter Srou Drach Drach Stabi ech Te ot O H N N N N N N N N N N N N N N N N N N	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch S) AND FLOCC at are approp	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3.	Cont Cont Cont Previ cons TABLE Insta strea offse on a Provi foot Moni Utiliz with THEN S Show 50 fe and s avail Prove
Arrow Ar	e: After the permanent nd stabilization shall k ticable but in no case f ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici- niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch	construct to perma 0 calend in shall be on until p N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled of	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed the soils being exposed during <i>List of Approved PAMS/Flocculants</i> .	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3. 4.	Cont Cont Cont Preve cons TABLE Instal strea offse on a Provi foot Moni Utiliz with THEN S Show 50 fe and s avail Prote five f Provi
POLY 1. 2.	e: After the permanent nd stabilization shall k ticable but in no case f ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch	construct to perma 0 calend in shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled • CULANTS	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization ment grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> o Erosion and Sediment Control Measures.	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3. 4.	Cont Cont Cont Preve cons TABLE Instal strea offse on a Provi foot f Moni Utiliz with THEN S Show 50 fe avail Prote five f Provi Stabi with
Are Are Are Are Are Are Are Are	e: After the permanent nd stabilization shall k ticable but in no case l ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table bel Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch d at are approping from the A or before the the concentra	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled • CULANTS oriate for VC DWR inlets to ations spa	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed S the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> o Erosion and Sediment Control Measures. pecified in the <i>NC DWR List of Approved</i>	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3. 4.	Cont Cont Cont Preve cons TABLE Instal strea offse on a g Provi foot f Moni Utiliz with THEN S Show 50 fe and s avails Prote five f Provi Stabi with as ve
And	e: After the permanent nd stabilization shall k ticable but in no case f ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici- niques in the table bel Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at <i>PAMS/Flocculants</i> at	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that n low: ation d with straw or ts with or r other mulch s with or r other mulch d at are approp ng from the A or before the the concentra nd in accordar	construct to perma 0 calend in shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled of CULANTS oriate for VC DWR inlets to ations sp nce with	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed S the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> De Erosion and Sediment Control Measures. Decified in the NC DWR List of Approved the manufacturer's instructions.	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3. 4.	Cont Cont Cont Preve cons TABLE Instal strea offse on a g Provi foot f Moni Utilize with THEN S Show 50 fe and s availa Prote five f Provi Stabi with as ve erosi
Article Poly Poly Poly 1. 2. 3. 4.	E: After the permanent nd stabilization shall k ticable but in no case f ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici- niques in the table be Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at Apply flocculants at PAMS/Flocculants at PAMS/Flocculants at	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or ts with or ts with or ts with or ts with or ts are approp ng from the A or before the the concentra nd in accordain a for contain	construct to perma 0 calend in shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled • CULANTS oriate for VC DWR inlets to ations sp nce with ment of t	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nent grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover nt to restrain erosion rral methods such as concrete, asphalt or ng walls erosion control products with grass seed S the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> o Erosion and Sediment Control Measures. becified in the <i>NC DWR List of Approved</i> the manufacturer's instructions. treated Stormwater before discharging	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3. 4.	Cont Cont Cont Preve consi TABLE Instal strea offse on a g Provie foot f Moni Utilize with Show 50 fe and s availa Prote five f Provi Stabi with as ve erosi
Iote rou ract ctiv urfa iRO tabi echi • Te ot • Ap • Pl • Pl • Pl	E: After the permanent nd stabilization shall k ticable but in no case f ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici niques in the table be Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at <i>PAMS/Flocculants</i> at <i>PAMS/Flocculants</i> at Provide ponding are offsite.	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or ts with or ts with or ts with or ts with or fr other mulch d at are approping from the A or before the the concentra ind in accordar a for containn	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled • CULANTS oriate for VC DWR inlets to ations sp nce with ment of t	child is zero shope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization ment grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover int to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed S the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> o Erosion and Sediment Control Measures. becified in the NC DWR List of Approved the manufacturer's instructions. treated Stormwater before discharging	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3. 4.	Conta Conta Conta Preve const TABLE Instal streat offset on a g Provid foot t Monit Utilize with THEN S Show 50 fe and s availa Prote five f Provi Stabi with as ve erosi
Iote rou ractiv urfa iRO tabi echi • Te ot • Ro • Pl • Ro • Pl • Pl • Pl • Pl • Pl • Pl • Pl • Pl	E: After the permanent nd stabilization shall b ticable but in no case f ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici- niques in the table be <u>Temporary Stabiliza</u> emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at <i>PAMS/Flocculants</i> at Provide ponding are offsite. Store flocculants in l	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch d at are approping from the A or before the the concentra nd in accordan a for containn leak-proof cor	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled • CULANTS • oriate for VC DWR • inlets to ations sp nce with ment of to	child is zero shope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization ment grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion tral methods such as concrete, asphalt or ng walls erosion control products with grass seed The soils being exposed during <i>List of Approved PAMS/Flocculants.</i> becified in the NC DWR List of Approved the manufacturer's instructions. treated Stormwater before discharging that are kept under storm-resistant cover	3. 4. 5. POR 1. 2. 3. EAR 1. 2. 3. 4.	Cont Cont Cont Preve cons TABLE Instal strea offse on a Provi foot Moni Utiliz with THEN S Show 50 fe and s avail Prote five f Provi Stabi with as ve erosi
POLY 1. 2. 3. 4. 5.	E: After the permanent nd stabilization shall b ticable but in no case f ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici- niques in the table be Temporary Stabiliza emporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at Apply flocculants at PAMS/Flocculants at Provide ponding are offsite. Store flocculants in f or surrounded by se	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch d at are approp ng from the A or before the the concentra nd in accordar a for containn leak-proof cor condary conta	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structur retainir • Rolled of CULANTS oriate for <i>VC DWR</i> inlets to ations sp nce with ment of to ntainers ainment	child is below shope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch m and evenly distributed ground cover nt to restrain erosion ral methods such as concrete, asphalt or ng walls erosion control products with grass seed S the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> to Erosion and Sediment Control Measures. becified in the NC DWR List of Approved the manufacturer's instructions. treated Stormwater before discharging that are kept under storm-resistant cover structures.	3. 4. 5. POR 1. 2. 3. 2. 3. 4.	Cont Cont Prev cons TABLE Insta strea offse on a Provi foot Utiliz with THEN S Show 50 fe and s avail Prote five f Prov Stab with as ve
Iote rou ract ctiv urfa iRO tabi echi • Te • ot • Ro • Pl • Ro • Pl • Pl • Pl • Pl • Pl • Pl • Pl • Pl	 After the permanent nd stabilization shall b ticable but in no case f ity. Temporary groun ace stable against acces UND STABILIZATION S ilize the ground suffici- niques in the table below Temporary Stabilization of the table below ther mulches and tackifiers ydroseeding olled erosion control produc- ithout temporary grass seed ppropriately applied straw of astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at PAMS/Flocculants at PAMS/Flocculants at Provide ponding are offsite. Store flocculants in l or surrounded by se 	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch d at are approp ng from the A or before the the concentra nd in accordar a for containn leak-proof cor condary conta	construct to perma 0 calend in shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled of CULANTS oriate for VC DWR inlets to ations sp nce with ment of to ntainers ainment	chiere is zero shope ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nucles and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover nt to restrain erosion rral methods such as concrete, asphalt or ng walls erosion control products with grass seed S the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> Decified in the NC DWR List of Approved the manufacturer's instructions. treated Stormwater before discharging that are kept under storm-resistant cover structures.	3. 4. 5. POR 1. 2. 3. 2. 3. 4.	Cont Cont Prev cons TABLE Insta strea offse on a Provi foot Mon Utiliz with THEN S Show 50 fe and avail Prote five Prov Stab with as ve eros
POLY POLY OLY 1 . 2 . 2 . 3 . 4 . 5 .	 After the permanent nd stabilization shall b ticable but in no case in ity. Temporary groun ace stable against accession UND STABILIZATION S ilize the ground suffici- niques in the table besion Temporary Stabilizates propray grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc- ithout temporary grass seed ppropriately applied straw of astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at Apply flocculants at PAMS/Flocculants at Provide ponding are offsite. Store flocculants in flor or surrounded by se 	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch d at are approp ng from the A or before the the concentra nd in accordar a for containn leak-proof cor condary conta	construct to perma 0 calend in shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled • CULANTS oriate for VC DWR inlets to ations sp nce with ment of to ntainers ainment	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization nucles and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover nt to restrain erosion ral methods such as concrete, asphalt or ng walls erosion control products with grass seed the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> becified in the <i>NC DWR List of Approved</i> the manufacturer's instructions. treated Stormwater before discharging that are kept under storm-resistant cover structures.	3. 4. 5. POR 1. 2. 3. (1. 2. 3. 4. (1. 2. 3. 4.	Cor Cor Pre cor TABL Inst stre offs on a Pro foo Util with THEN Sho 50 ava Pro foo Sta ava Pro five Pro Sta ava Pro five cor
Note grou oracle otiv surfa GRO otabi echi • Te ot • Re w • Ap • Pl • Pl • Pl • Pl • Pl • Pl • Pl • Pl	e: After the permanent nd stabilization shall b ticable but in no case h ity. Temporary groun ace stable against acce UND STABILIZATION S ilize the ground suffici- niques in the table be Temporary grass seed covered ther mulches and tackifiers ydroseeding olled erosion control produc ithout temporary grass seed ppropriately applied straw o astic sheeting YACRYLAMIDES (PAM Select flocculants th construction, selecti Apply flocculants at <i>PAMS/Flocculants</i> at <i>PAMS/Flocculants</i> at Provide ponding are offsite. Store flocculants in h or surrounded by se	t cessation of be converted t longer than 90 d stabilization elerated erosic SPECIFICATIO ently so that r low: ation d with straw or ts with or r other mulch s with or r other mulch d at are approping from the A or before the the concentra ind in accordar a for containn leak-proof cor	construct to perma 0 calend on shall be on until N rain will • Permar other n • Geotex reinford • Hydros • Shrubs with m • Uniforr sufficie • Structu retainir • Rolled oriate for VC DWR inlets to ations sp nce with ment of to ntainers ainment	ction activities, any areas with temporary anent ground stabilization as soon as ar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the Permanent Stabilization ment grass seed covered with straw or nulches and tackifiers tile fabrics such as permanent soil cement matting eeding or other permanent plantings covered ulch n and evenly distributed ground cover in to restrain erosion rral methods such as concrete, asphalt or ng walls erosion control products with grass seed S the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> De Erosion and Sediment Control Measures. Decified in the <i>NC DWR List of Approved</i> the manufacturer's instructions. treated Stormwater before discharging that are kept under storm-resistant cover structures. CGOOL GROUNDD S	3. 4. 5. POR 1. 2. 3. 4. 2. 3. 4.	Co Co Pre con TABL Inst stre off on Pro foc Uti wit THEN She 50 and ava Pro five Pro Sta wit as ero

AND VEHICLE MAINTENANCE

ain vehicles and equipment to prevent discharge of fluids.

- le drip pans under any stored equipment.
- fy leaks and repair as soon as feasible, or remove leaking equipment from the
- all spent fluids, store in separate containers and properly dispose as lous waste (recycle when possible).
- ve leaking vehicles and construction equipment from service until the problem en corrected.
- used fuels, lubricants, coolants, hydraulic fluids and other petroleum products ecycling or disposal center that handles these materials.

DING MATERIAL AND LAND CLEARING WASTE

- oury or burn waste. Place litter and debris in approved waste containers. a sufficient number and size of waste containers (e.g dumpster, trash cle) on site to contain construction and domestic wastes.
- waste containers at least 50 feet away from storm drain inlets and surface unless no other alternatives are reasonably available.
- waste containers on areas that do not receive substantial amounts of runoff pland areas and does not drain directly to a storm drain, stream or wetland. aste containers at the end of each workday and before storm events or secondary containment. Repair or replace damaged waste containers.
- all lightweight items in waste containers during times of high winds.
- vaste containers as needed to prevent overflow. Clean up immediately if ers overflow.
- waste off-site at an approved disposal facility.
- iness days, clean up and dispose of waste in designated waste containers.

THER LIQUID WASTE

- : dump paint and other liquid waste into storm drains, streams or wetlands. paint washouts at least 50 feet away from storm drain inlets and surface unless no other alternatives are reasonably available.
- liquid wastes in a controlled area.
- ment must be labeled, sized and placed appropriately for the needs of site. t the discharge of soaps, solvents, detergents and other liquid wastes from iction sites.

ILETS

- portable toilets on level ground, at least 50 feet away from storm drains, or wetlands unless there is no alternative reasonably available. If 50 foot not attainable, provide relocation of portable toilet behind silt fence or place ivel pad and surround with sand bags.
- staking or anchoring of portable toilets during periods of high winds or in high ffic areas.
- r portable toilets for leaking and properly dispose of any leaked material. licensed sanitary waste hauler to remove leaking portable toilets and replace operly operating unit.

DCKPILE MANAGEMENT

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

IZATION AND MATERIALS HANDLING

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&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 (a) shall not commence until the E&SC 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, (b) (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.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

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.

n to Document	Documentation Requirements
measure has been installed ignificantly deviate from the ensions and relative elevations 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.
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.
ver is located and installed with the approved E&SC	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.
enance and repair for all E&SC measures formed.	Complete, date and sign an inspection report.
actions have been taken Ires.	Initial and date a copy of the approved E&SC 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&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:

(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.

B. 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 III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

- Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland
- (b) 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).
- (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 (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) 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 Discov
(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electric Within 7 calendar days, a report sediment and actions taken to ad Division staff may waive the required case-by-case basis. If the stream is named on the NC related causes, the permittee ma monitoring, inspections or apply determine that additional required with the federal or state impaired
 (b) Oil spills and release of hazardous substances per Item 1(b)-(c) above 	 Within 24 hours, an oral or electr shall include information about the location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• A report at least ten days before The report shall include an evalua effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 hours, an oral or electr Within 7 calendar days, a report quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(I)(7)]	 Within 24 hours, an oral or electr Within 7 calendar days, a report noncompliance, and its causes; th including exact dates and times, a been corrected, the anticipated t continue; and steps taken or plan prevent reoccurrence of the nonc Division staff may waive the require case-by-case basis.

INTERFERENCE MANHOLE NOT TO SCALE

CATCH BASIN FRAME, GRATE, AND HOOD

MANHOLE RING AND COVER

NOT TO SCALE

NOT TO SCALE

TRAFFIC BEARING PRE-CAST DRAINAGE STRUCTURE

NOT TO SCALE

ANCHORAGE FOR FRAME AND GRATE

NOT TO SCALE

NCDOT STANDARD PAVEMENT MARKINGS - 4 NOT TO SCALE

