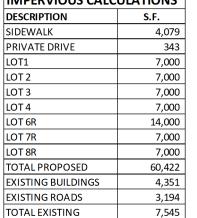
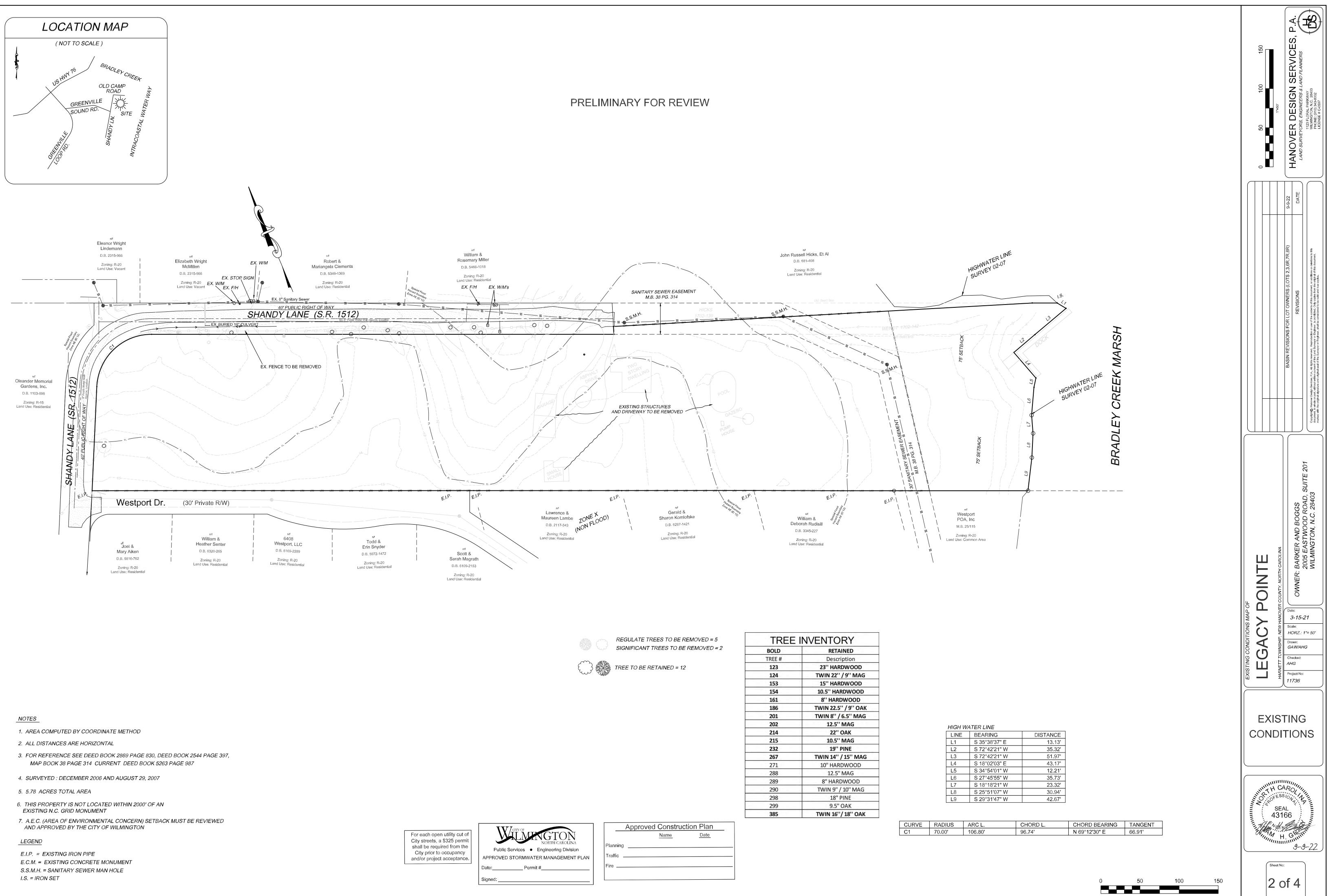


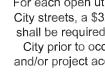
Utility Notes:

- 1. Existing water and sanitary sewer services are

- 4. Project shall comply with CFPUA Cross

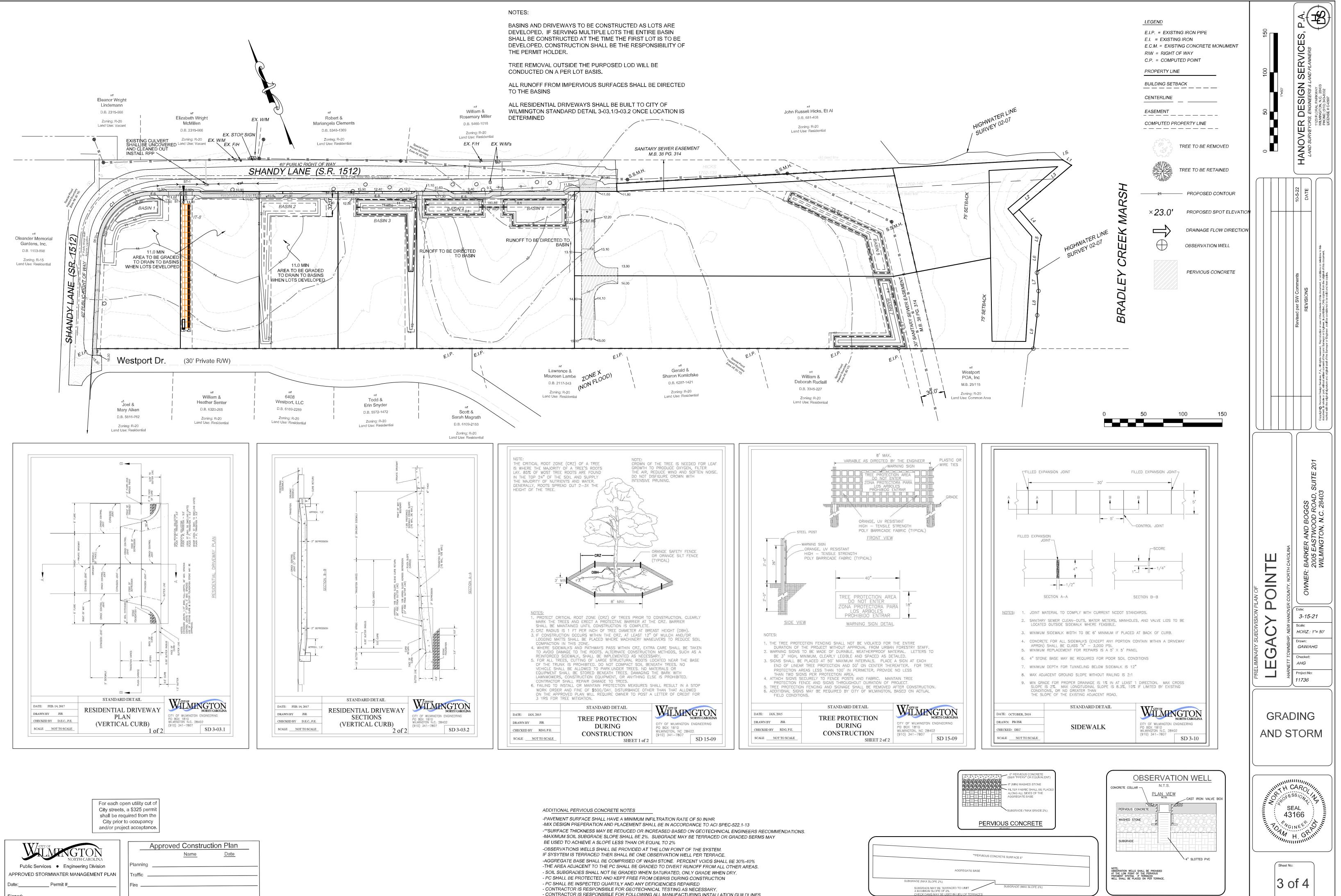






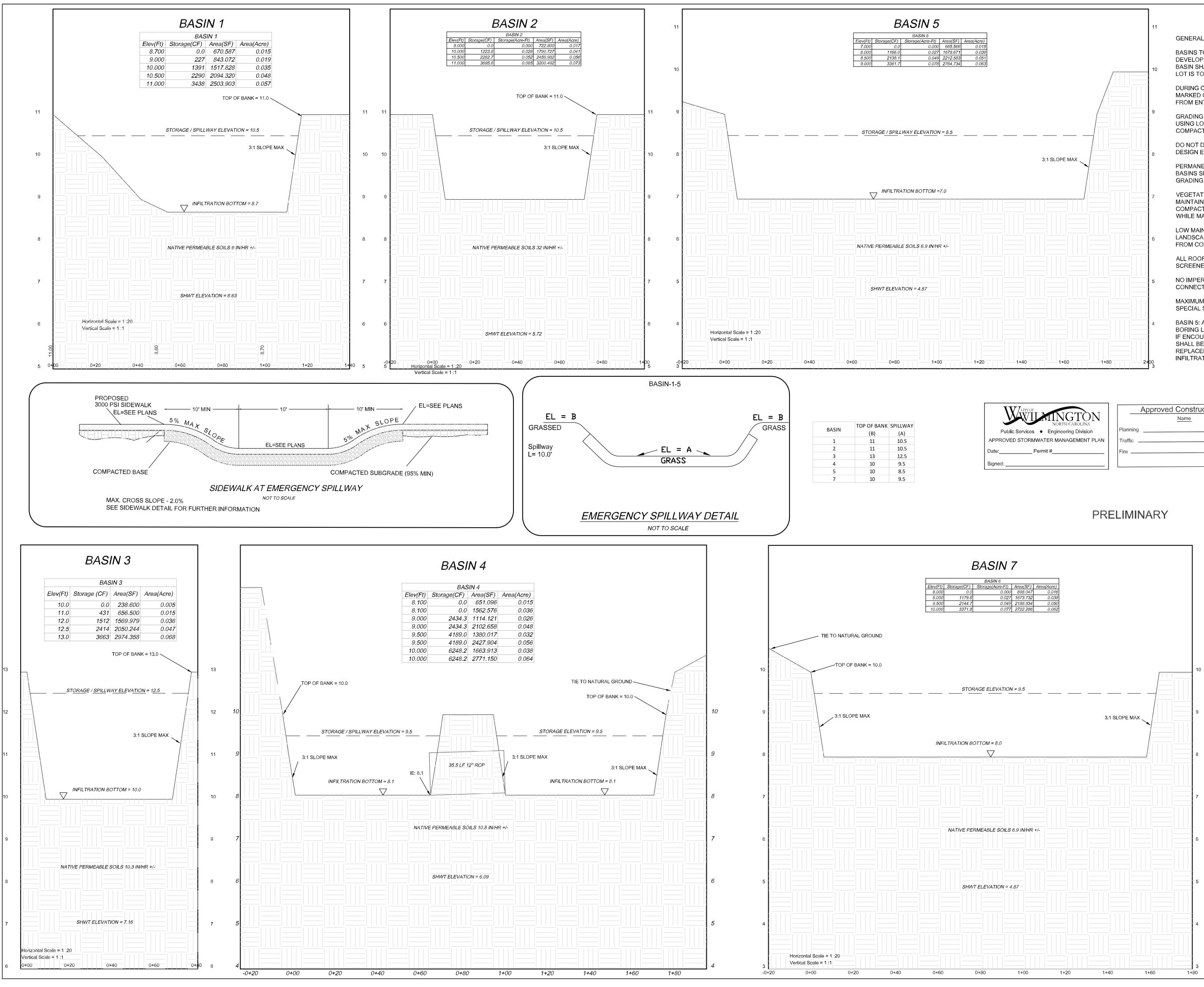
INCL	INVENTORY
BOLD	RETAINED
TREE #	Description
123	23" HARDWOOD
124	TWIN 22" / 9" MAG
153	15" HARDWOOD
154	10.5" HARDWOOD
161	8" HARDWOOD
186	TWIN 22.5" / 9" OAK
201	TWIN 8" / 6.5" MAG
202	12.5" MAG
214	22" OAK
215	10.5" MAG
232	19" PINE
267	TWIN 14" / 15" MAG
271	10" HARDWOOD
288	12.5" MAG
289	8" HARDWOOD
290	TWIN 9" / 10" MAG
298	18" PINE
299	9.5" OAK
385	TWIN 16"/ 18" OAK

	Name	Date
		LD OILO
Planning		
Traffic		
=ire		



- CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL MANUFACTURING INSTALLATION GUILDLINES

(
	SUBGRADE (MAX SLOPE 2%
	SUBGRADE MAY BE A MAXIMUM SLOPE CHECK DAMS MAY B



GENERAL BASIN NOTES:

BASINS TO BE CONSTRUCTED AS LOTS ARE DEVELOPED. IF SERVING MULTIPLE LOTS THE ENTIRE BASIN SHALL BE CONSTRUCTED AT THE TIME THE FIRST LOT IS TO BE DEVELOPED.

DURING CONSTRUCTION, BASIN AREAS SHALL BE MARKED OFF TO PREVENT CONSTRUCTION TRAFFIC FROM ENTERING THE AREA AND COMPACTING SOILS.

GRADING OF THE BASIN SHALL BE ACCOMPLISHED USING LOW-IMPACT EQUIPMENT TO PREVENT COMPACTION OF THE SOILS.

DO NOT DISTURB UNDERLYING SOILS BELOW FINAL DESIGN ELEVATION.

PERMANENT VEGETATION, SEEDING, AND MATTING OF BASINS SHALL BE COMPLETED WITHIN 2 DAYS OF FINAL GRADING.

VEGETATION ALONG THE SURFACE OF BASINS SHALL BE MAINTAINED IN GOOD CONDITION. AVOID EXCESSIVE COMPACTION BY MOWERS AND OTHER EQUIPMENT WHILE MAINTAINING.

LOW MAINTENANCE VEGETATION SHALL BE USED IN LANDSCAPING OF BASIN TO REDUCE COMPACTION FROM CONSTANT MOWING.

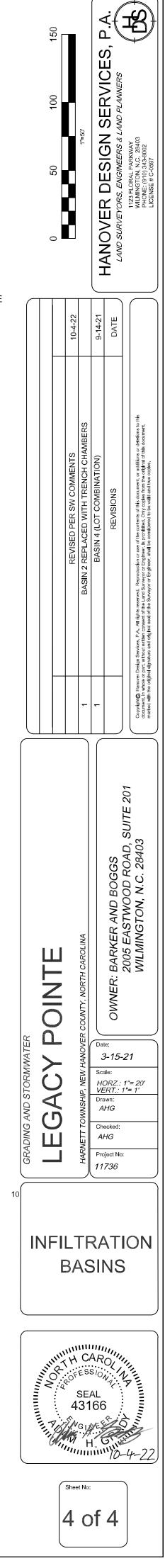
ALL ROOF DRAINS DIRECTED TO BASINS SHALL BE SCREENED.

NO IMPERVIOUS SURFACES SHALL BE DIRECTLY CONNECTED TO BASIN UNLESS IT HAS BEEN SCREENED

MAXIMUM SIDE SLOPES SHALL BE 3:1 UNLESS WITHOUT SPECIAL STABILIZATION

BASIN 5: A 1' LAYER OF CLAY WAS OBSERVED AT THE BORING LOCATION BETWEEN THE DEPTHS OF 3-4 FEET. IF ENCOUNTERED DURING CONSTRUCTION THE LAYER SHALL BE REMOVED FROM THE BASIN BOTTOM AND REPLACED WITH SOIL MATCHING THE EXISTING INFILTRATION RATES AT MINIMUM.

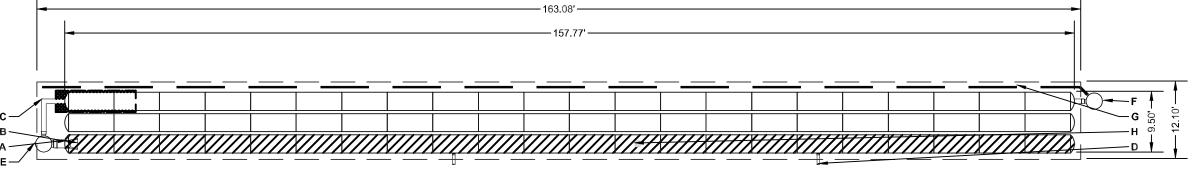
Approved Construction Plan	For each open utility cut of
Name Date Planning	City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.
Traffic	and/or project acceptance.

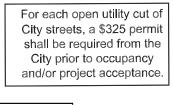


ENG		CT INFORMAT
	JAGER	
ADS	SALES REP	
PRC	DJECT NO.	
S	C-310 STORM	TECH CHAME
1.	CHAMBERS SHALL BE S	TORMTECH SC-310.
2.	CHAMBERS SHALL BE A POLYETHYLENE COPOL	RCH-SHAPED AND SHALL I YMERS.
3.		T THE REQUIREMENTS OF
4.		. PROVIDE CONTINUOUS, L ACCESS FOR INSPECTION
5.		GN OF THE CHAMBERS, TH
	LONG-DURATION DEAD	RS SPECIFIED IN THE AASI LOADS AND 2) SHORT-DUF PLE VEHICLE PRESENCES
6.		ESIGNED, TESTED AND AL
	LOAD CONFIGURATIONS	FOR STRUCTURAL DESIGN S SHALL INCLUDE: 1) INSTA (75-YR) COVER LOAD AND
7.		ANDLING AND INSTALLATION WIDTH OF CHAMBERS DU
	STACKING LUGS.	CURE JOINT DURING INSTA
		NTEGRITY OF THE ARCH S
		R EQUAL TO 400 LBS/FT/% JRING INSTALLATION AT EI
	FROM REFLECTIV	E GOLD OR YELLOW COLC
8.	ENGINEER OR OWNER,	ARE APPROVED BY THE S THE CHAMBER MANUFAC1
		S TO THE PROJECT SITE AS . EVALUATION SHALL BE S
		. EVALUATION SHALL DEM .75 FOR LIVE LOAD. THE N
	LRFD BRIDGE DES	GIGN SPECIFICATIONS FOR
		D CREEP MODULUS AS SF HALL BE THE 75-YEAR MC
9.	CHAMBERS AND END CA	APS SHALL BE PRODUCED

	PROPOSED LAYOUT	
66	STORMTECH SC-310 CHAMBERS	MAXIMUM A
6	STORMTECH SC-310 END CAPS	MINIMUM AL
6	STONE ABOVE (in)	MINIMUM AL
6	STONE BELOW (in)	MINIMUM AL
40	STONE VOID	MINIMUM AL
	INSTALLED SYSTEM VOLUME (CF)	TOP OF STC
2426	(PERIMETER STONE INCLUDED)	TOP OF SC-3
2420	(COVER STONE INCLUDED)	4" INSERTA
	(BASE STONE INCLUDED)	8" x 8" TOP N
1973	SYSTEM AREA (SF)	12" ISOLATC
350.4	SYSTEM PERIMETER (ft)	8" BOTTOM
		BOTTOM OF
		UNDERDRA
		BOTTOM OF

2 ADS, INC





VILMINGTON NORTH CAROLINA
Public Services
APPROVED STORMWATER MANAGEMENT PLAN
Date: Permit #
Signed:

	Approved Const	ruction Plan
	Name	Date
Planning		
Traffic _		
Fire		

`		
	\backslash	ISOLATOR ROW PLUS (SEE DETAIL)
\bigotimes		PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN G STONE AND UNDERNEATH CHAMBER FEET FOR S CHAMBER INLET ROWS
		BED LIMITS

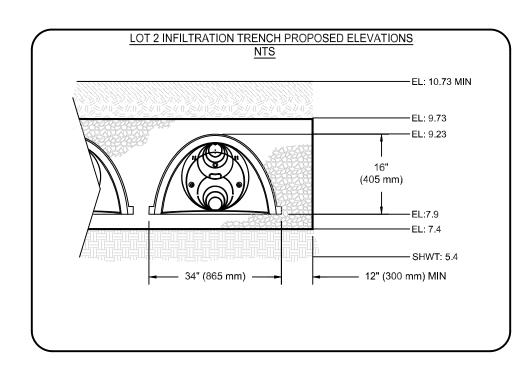






PROJECT INFORMATION VEERED PRODUCT GER SALES REP ECT NO. -310 STORMTECH CHAMBER SPECIFICA CHAMBERS SHALL BE STORMTECH SC-310.	1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MA		0 1-2
 CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIPPOLYETHYLENE COPOLYMERS. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBER CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPIMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AN THAT THE LOAD FACTORS SPECIFIED IN THE ASANTO LRPD BRIDGE DESIGN SP LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED O FOR IMPACT AND MULTIPLE VEHICLE PRESENCES. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (+1 MIN) AASHTO MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH F REQUIREMENTS FOR HANDLING AND INSTALLATION: TO MANTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLIN STACKING LUGS. TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE THAN 2'. TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, GREATER THAN OR EQUAL TO 400 EQUAS. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ENGINEER TO THE PROJECT SITE AS FOLLOWS: ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ENGINEER TO THE PROJECT SITE AS FOLLOWS: THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PRG THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PRG THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PRG THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM I LARD BRIDGE DESIGN SPECIFICION SALL BE SEALED BY A REGISTERED PRG THE STRUCTURAL EVALUATION SHALL BE DEMONSTRATE THAT THE SAFETY DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM I LARD BRIDGE DESIGN SPECIFICION SASL PRECIPIED IN ASTM F3922 SHALL EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN. <!--</td--><td> STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE Y STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE Y STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NO EQUIPMENT OVER SC-310 & SC-740 CHAMBER NO EQUIPMENT OVER SC-310 & SC-740 CHAMBERS NO ROUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS AR WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION SITE SSIONAL ENGINEER ACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR 787 AND BY SECTIONS 3 AND 12.12 OF THE ASHTO BE USED FOR PERMANENT DEAD LOAD DESIGN WIE OF A DOZER TO PUSH EMBEDMENT STORE BETWEEN THE ROWS OF CHAM ACCEPTABLE BACKFILL METHOD, ANY CHAMBERS DAMAGED BY THE "DUMP STANDARD WARRANTY. </td><td>TOR SITUATED OVER THE CHAMBERS. JINDATION STONE OR SUBGRADE. HOE OR EXCAVATOR. TO PLACING CHAMBERS. PLACING CHAMBERS. PLACING STONE. NS. JISHED, ANGULAR STONE 3/4-2" (20-50 mm). R FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN NG CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE OFF. WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". SERS IS LIMITED: RE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE JIDE". IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". ERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. MBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN PAND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH</td><td></td>	 STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE Y STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE Y STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NOTES FOR CONSTRUCTION EQUIPMENT STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNC NO EQUIPMENT OVER SC-310 & SC-740 CHAMBER NO EQUIPMENT OVER SC-310 & SC-740 CHAMBERS NO ROUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS AR WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION SITE SSIONAL ENGINEER ACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR 787 AND BY SECTIONS 3 AND 12.12 OF THE ASHTO BE USED FOR PERMANENT DEAD LOAD DESIGN WIE OF A DOZER TO PUSH EMBEDMENT STORE BETWEEN THE ROWS OF CHAM ACCEPTABLE BACKFILL METHOD, ANY CHAMBERS DAMAGED BY THE "DUMP STANDARD WARRANTY. 	TOR SITUATED OVER THE CHAMBERS. JINDATION STONE OR SUBGRADE. HOE OR EXCAVATOR. TO PLACING CHAMBERS. PLACING CHAMBERS. PLACING STONE. NS. JISHED, ANGULAR STONE 3/4-2" (20-50 mm). R FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN NG CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE OFF. WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". SERS IS LIMITED: RE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE JIDE". IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". ERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. MBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN PAND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH	
OPOSED LAYOUT CONCEPTUAL EL IRMITECH SC-310 CHAMBERS MAXIMUM ALLOWABLE GRADE (TOP OF PAVEM RATECH SC-310 END CAPS IRVINUM ALLOWABLE GRADE (TOP OF PAVEM NE ABOVE (n) MINIMUM ALLOWABLE GRADE (TOP OF PAVEM MINIMUM ALLOWABLE GRADE (TOP OF PAVEM NE VOID) INE VOID INE VOID STORE INCLUDED) MINIMUM ALLOWABLE GRADE (TOP OF PAVEM SC SC-310 CHAMBER: "INSERTA TEE INVERT: "SS STONE INCLUDED) SS STONE INCLUDED) S''S SC ALTOR ROW FLUS INVERT: BOTTOM OF SC-310 CHAMBER: UDDORDRAN INVERT: BOTTOM OF STONE:	NT/UNPAVED): 9.83 PART TYPE ITEM ON DESCRIPTION RAFFIC): 3.83 IFFIC): 3.33 PREFABRICATED EZ END CAP A CONNECTIONS AND ISOLATOR PLUS ROWS		PERMINATION
ISOLATOR ROW PLUS (SEE DETAIL) PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS BED LIMITS	NOTES MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AN COMPONENTS IN THE FIELD. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REC THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SIT DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OF PROVIDED. MOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORA	QUIREMENTS ARE MET. TE DESIGN ENGINEER IS RESPONSIBLE FOR OR DECREASED ONCE THIS INFORMATION IS SHEET	T1 of T3





D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FF LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MA LAYER.
с	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS F EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABO CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE LAYER.
в	EMBEDMENT STONE: FILL SURROUNDING THE CHAM FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER AB
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE FOOT (BOTTOM) OF THE CHAMBER.
2. STC 3. WHI COM	NOTE: E LISTED AASHTO DESIGNATIONS ARE FOR GRADATION ORMTECH COMPACTION REQUIREMENTS ARE MET FOR ERE INFILTRATION SURFACES MAY BE COMPROMISED MPACTION REQUIREMENTS. CE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE P
	ADS GEOSYM
	PERIMETEI (SEE
	EXCAVATI (CAN BE SLOPED OR VE
	12" (30
CHA 2. SC- CHA 3. THE CON 4. PER	ES: AMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2 AMBERS". 310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE AMBERS". 5 SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSES NSIDERATION FOR THE RANGE OF EXPECTED SOIL MO RIMETER STONE MUST BE EXTENDED HORIZONTALLY T QUIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SH TO ENSURE A SECURE JOINT DURING INSTALLATION TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DU 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER D OR YELLOW COLORS.
	STORMTECH HIGHLY RECOMMENDS FLEXSTORM INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES
	ELEVATED BYPASS MANIFOLD
	SUMP DEPTH TBD BY SITE DESIGN ENGINEER (24" [600 mm] MIN RECOMMENDED)
INS Stef	PECTION & MAINTENANCE P 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT A. INSPECTION PORTS (IF PRESENT) A.1. REMOVE/OPEN LID ON NYLOPLAST INL A.2. REMOVE AND CLEAN FLEXSTORM FILT A.3. USING A FLASHLIGHT AND STADIA ROE A.4. LOWER A CAMERA INTO ISOLATOR RO' A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 m B. ALL ISOLATOR PLUS ROWS B.1. REMOVE COVER FROM STRUCTURE A' B.2. USING A FLASHLIGHT, INSPECT DOWN i) MIRRORS ON POLES OR CAMERAS I ii) FOLLOW OSHA REGULATIONS FOR (B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 m

STEP 2)	CLEAN OUT ISOLATOR ROW PLUS USING TH A. A FIXED CULVERT CLEANING NOZZLE W B. APPLY MULTIPLE PASSES OF JETVAC U C. VACUUM STRUCTURE SUMP AS REQUIR
STEP 3)	REPLACE ALL COVERS, GRATES, FILTERS, A
STEP 4)	INSPECT AND CLEAN BASINS AND MANHOLE

NOTES

OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

	Approved Construction Plan
VILMINGTON NORTH CAROLINA	Name Date
Public Services Engineering Division	Planning
APPROVED STORMWATER MANAGEMENT PLAN	Traffic
Date: Permit #	Fire

For each open utility cut of

City streets, a \$325 permit shall be required from the

City prior to occupancy

and/or project acceptance

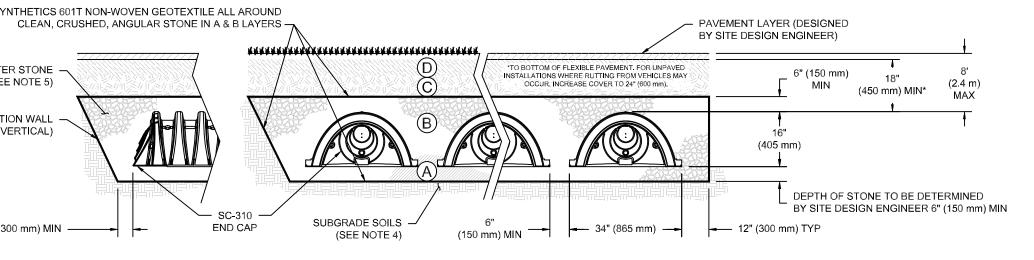
Signed:

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
L MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D'	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
LL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE TONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE FE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C'	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
TONE: FILL SURROUNDING THE CHAMBERS FROM THE TONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
TONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO TO THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

DNS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE". DR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. D BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR

PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION

E WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION

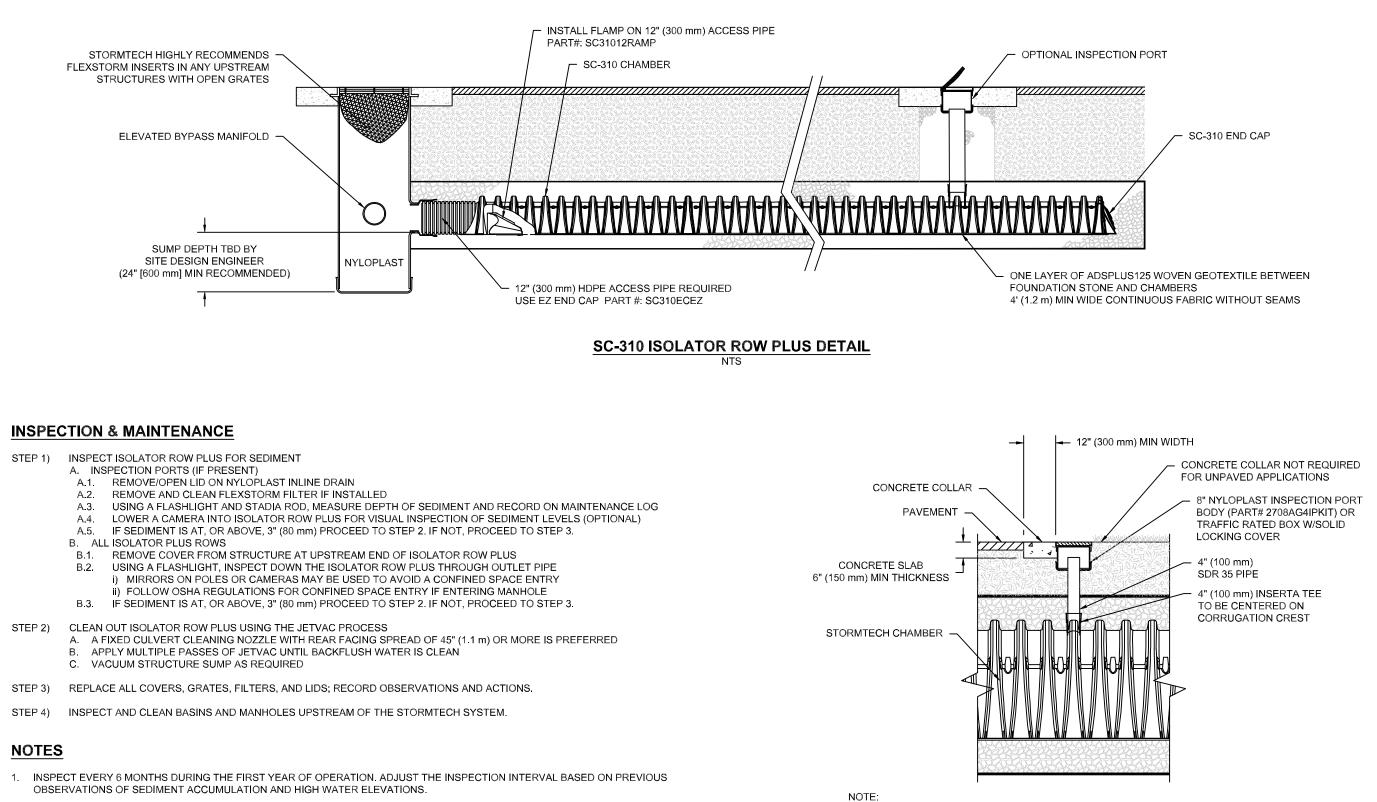
SSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH

OISTURE CONDITIONS. TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

HIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.

N AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".

DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD

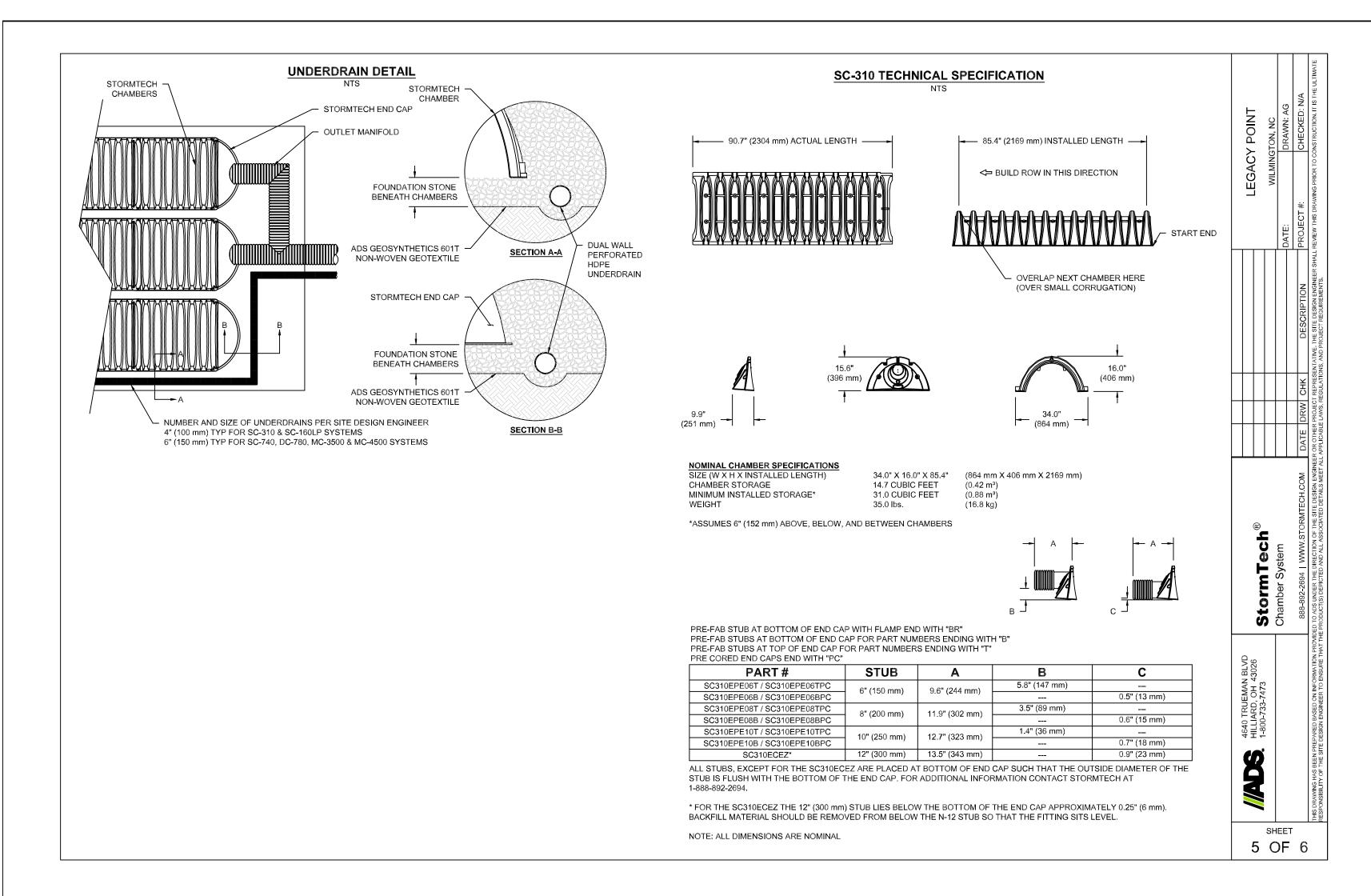


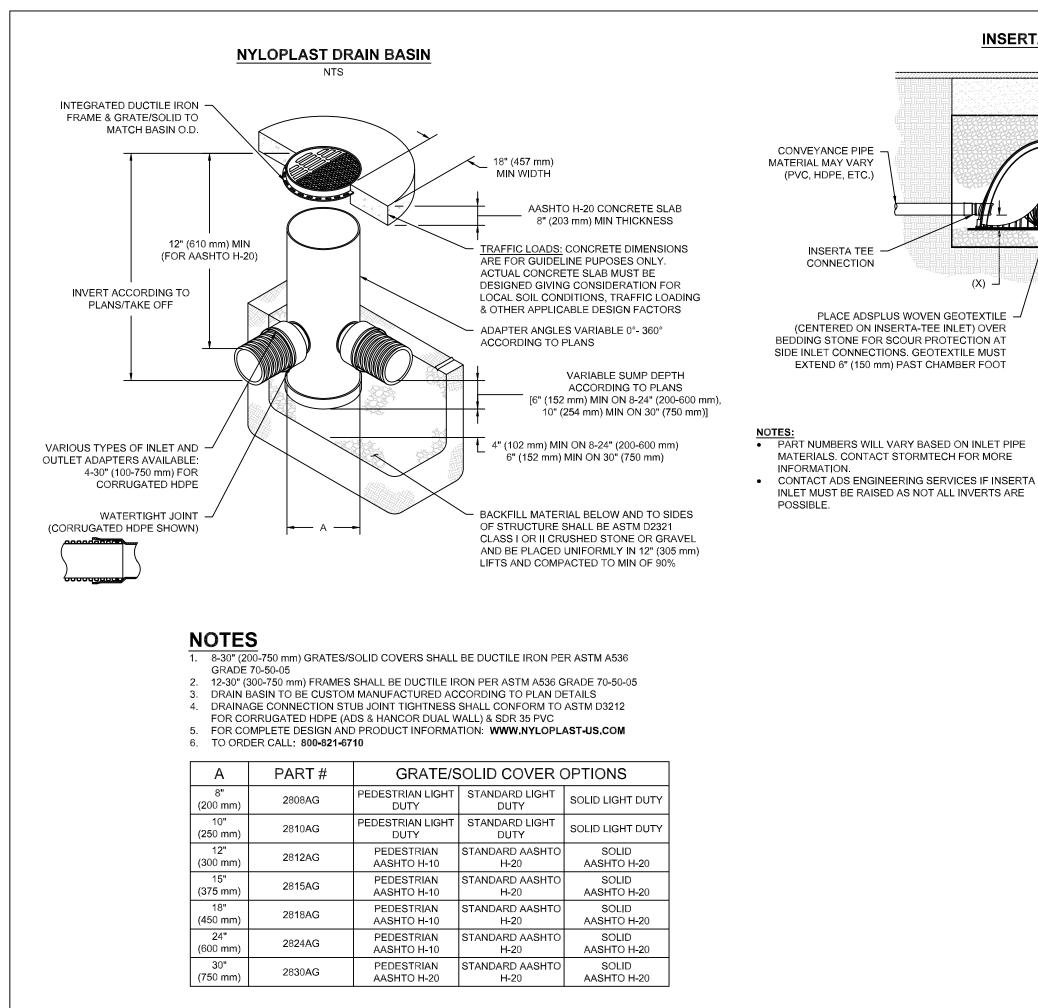
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

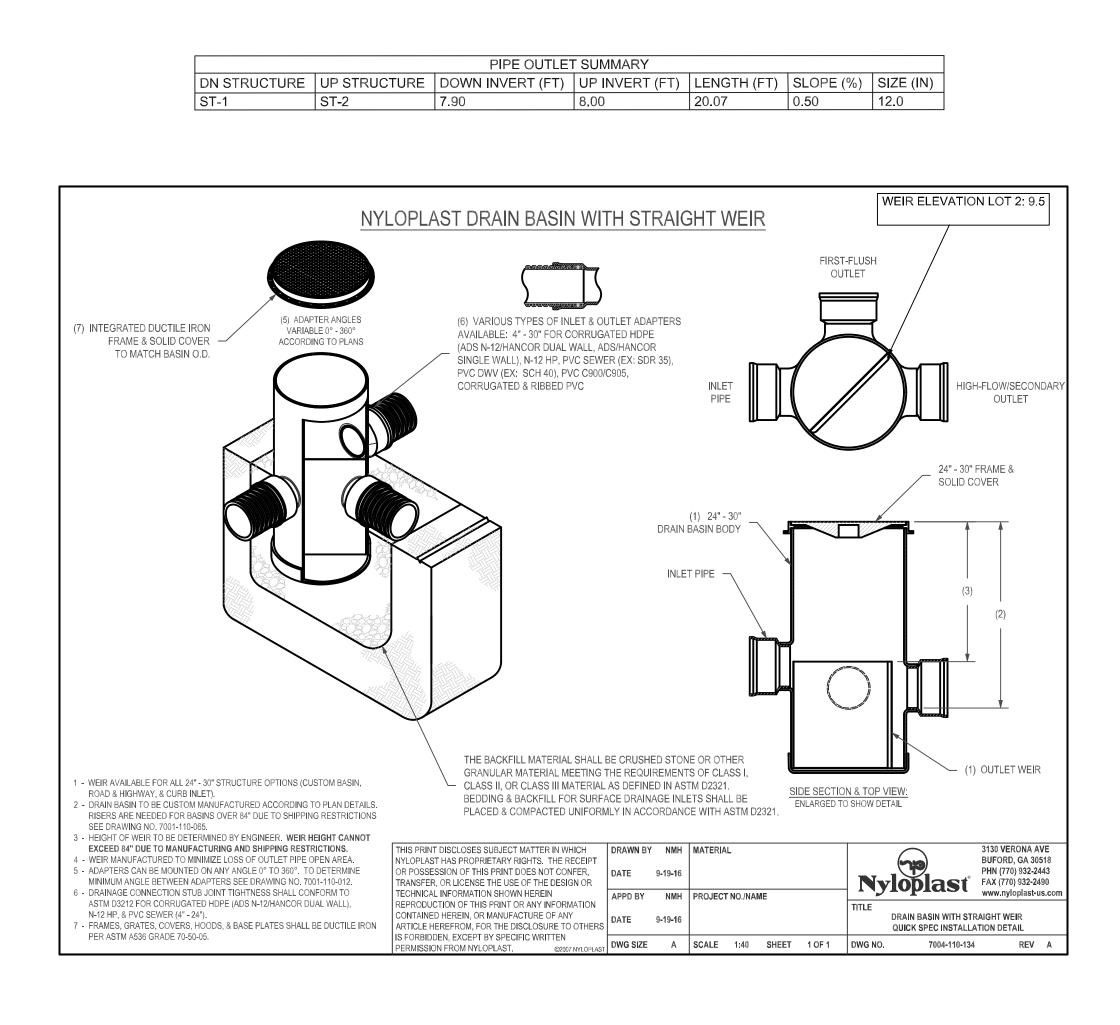
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADD UNDER THE PRE-DEFINITION OF THE SITE DESION ENVIREMENT OF THE SITE DESION ENVIREMENT.		0 50 100 150	1"=50'	HANOVER DESIGN SERVICES, P.A.	1123 FLORAL PARKWAY WILMINGTON, N.C. 28403 PHONE: (910) 343-8002 LICENSE # C-0597
TECH.COM DATE DRW CHK DEE TE DESIGN ENGINEER PROJECT REPRESENTATIVE. THE BI				DATE	tons or delations to this in the document,
Chamber System Chamber System 888-892-2694 WWW.STORMTECH.COM CORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENCOMPAGE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEE				REVISIONS	Copyright@, Hanver Design Services, P.A., All rights reserved. Reproduction or use of the contents of this document, or additions or detations to this document. In whole or part, without written consent of the Land Surveyor or Engineer, is prohibited. Only cooples from the organic of this document, marked with the original signature and original seal of the Surveyor or Engineer, shall be considered to be valid and true coples.
P-000-100-100-100-100-100-100-100-100-10					Copyright@, Hanover Design Services, P.A., All ng document. In whole or part, without written consent marked with the original signature and original seal
1-800-733-7473 Storm IeCN NILMINGTON, NC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		LEGACY POINTE	VEW HANG	Durker: 2015 FASTWOOD ROAD SUITE 201	WILMINGTON, N.C. 28403
Chamber System B88-892-2694 www.stoRMTECH.COM Channer the Intection of the site Desion endineer or on the Producting Definite Data And ALL ASSOCIATED DETAILS MEET ALL APPLI		INF	AD ILTF REN ETA	HG Project No: 1736 S S ATI CH	ON
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		DO NOT INSTALL INSERTA-TEE AT CHAMBER JOINTS	FGACY POINT	WILMINGTON, NC	DRAWN AG
			I FGAC		DATE:
	INSTALLED,	TEE TO BE CENTERED RRUGATION			
SECTION A-A	SIDE	VIEW			
CHAMBER	MAX DIAMETER OF	HEIGHT FROM BASE OF CHAMBER (X)			
SC-310	6" (150 mm)	4" (100 mm)			
SC-740	10" (250 mm)	4" (100 mm)			
DC-780	10" (250 mm)	4" (100 mm)			
MC-3500 MC-4500	12" (300 mm) 12" (300 mm)	6" (150 mm) 8" (200 mm)			
	NGS AVAILABLE FOR SDR 2				
				Nyloplast [®]	
			4640 TRUEMAN BLVD	_ 1	
					IEET



GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

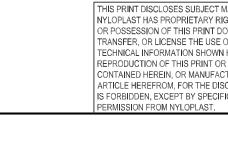
MATERIALS

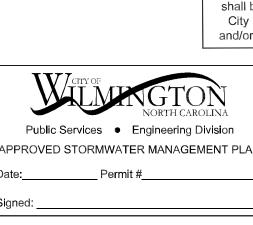
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to <u>ASTM D3212</u> for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to <u>ASTM F477</u>. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to <u>ASTM D1784 cell class 12454</u>.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to <u>ASTM A536 grade 70-50-05</u>. Grates and covers shall be provided painted black.

INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in <u>ASTM D2321</u>. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with <u>ASTM D2321</u>. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to <u>ASTM D2321</u> guidelines.





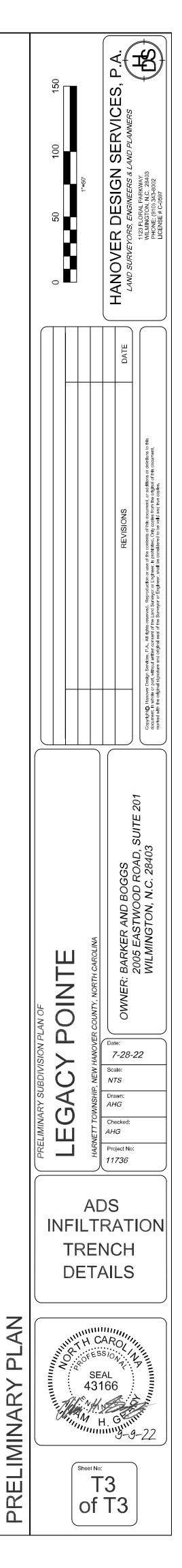
Section 2721

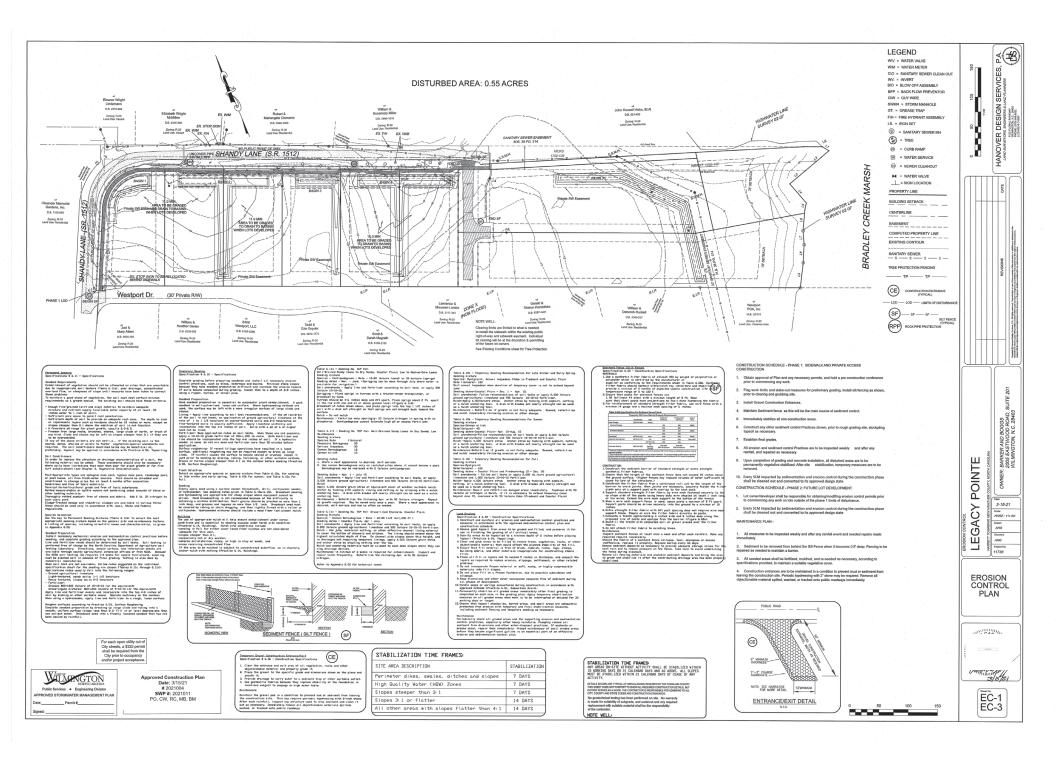
Engineered Surface Drainage Products

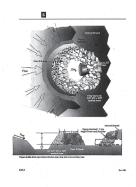
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For each open utility cut of
City streets, a \$325 permit
shall be required from the
City prior to occupancy
and/or project acceptance.

	1					
			Approve	d Constru	uction Plan	
				Name	Date	
		Planning				
N		Traffic _				
		Fire				
_						







ROCK INLET PROTECTION SPECIFICATION 6.55
CONSTRUCTION SPECIFICATIONS
1. Clear the area of all debris that might binder ensavation and disposal of spoil.
2. Install the Class B or Class I riprap in a semi-olicite around the pipe blot. The status should be built or higher on each and where X the iso itso the exchanisment. The minimum creates which of the riprey housd be 3 hould be the minimum bottom width of 15 feet. The minimum height should be 3 hould but also 1 fock hows them for should be of the endpandence of diversities.
 A 1 foot thick layer of NC DOT #5 or #57 stone should be placed on the outside stope of the riprap.
 The sediment storage area should be excavated around the outside of the stone horseshoe 10 inches below natural grade.
 When the contributing drainage area has been stabilized, fil depression and establish final grading elevations, compact area property, and stabilize with ground cover.
MAINTENANCE
bageot crock gips bills protection or loads versities and after each significant (2) is thin or provincing relativity and and the protection of the second and relative the and/second along areas to its original dimensions when the and/second and accounsible to be call the design desite of the low. These here address that is recovered in the designated disposal areas and replace the contractionistic part of the growth failing.
Check the structure for damage. Any riprap displaced from the stone horseshoe must be replaced immediately.
After all the sediment-producing areas have been percanently stabilized, remove the structure and all the unstable sediment. Smooth the area to blend with the adjoining areas and provide permanent ground cover (Surface Chabitation)

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCGOI 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 riediction

_	ĸ	equired Ground Stabi	izadon rimeirames
Si	te 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
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zone -10 days for Falls Lake Watershed unless there is zero slope

surface stable against accelerated erosion until permanent ground stabilization is achieved

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization Permanent Stabilization Temporary grass seed covered with straw or other mulches and tackifiers Permanent grass seed covered with straw or other mulches and tackifiers Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permane with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt of retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- 1. Select flocculants that are appropriate for the soils being exposed during
- construction, selecting from the NC DWR List of Approved PAMS/Floccu 2. 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

EQUIPMENT AND VEHICLE MAINTENANCE 1. Maintain vehicles and equipment to prevent discharge of fluids.

- Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible). 5. Remove leaking vehicles and construction equipment from service until the
- problem has been corrected. 6. 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

- 1. 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. 4. Locate waste containers on areas that do not receive substantial amounts of runof
- from upland areas and does not drain directly to a storm drain, stream or wetland. 5. Cover waste containers at the end of each workday and before storm events or
- provide secondary containment. Repair or replace damaged waste containers 6. Anchor all lightweight items in waste containers during times of high winds.
- 7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- 8. Dispose waste off-site at an approved disposal facility.
 - 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

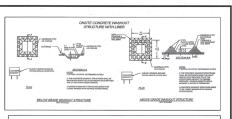
- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 3. Contain liquid wastes in a controlled area.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site. 5. 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 plac 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 repla with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- 1. 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.
- 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset o five feet from the toe of stockpile.
- 3 Provide stable stone access point when feasible
- 4. 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 accelerate erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

Do not discharge concrete or cement slurry from the site.

- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. З.
- 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 a 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.
- 5. 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 can be shown that no other alternatives are reasonably available. At a minimum, 6. install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow
- 7. 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.
- 8. 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
- 9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- 1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions 2.
- 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.
- 4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

EFFECTIVE: 04/01/19

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING



PLAN WHY CAROUN



EROSION CONTROL

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DESIGN

HANOVER I

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SUITE.

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SECTION A: SELF-INSPECTION Soft-inspections are required during norm below. When adverse weather or site co personnel to be in jeoparty, the inspection greater than 1.0 inch occurs outside of no inspections were delayed shall be noted in performed upon the commencement of inspections were delayed shall be noted in inspections were delayed shall be noted in inspection	In the Inspection Record.	SECTION B: RECORDKEEPING 1. E&SC Plan Documentation The approved E&SC plan as well as any ap approved E&SC plan must be kept up-to-to-	CORDREEPING AND REPORTING approved deviation shall be kept on the site. The date throughout the coverage under this permit. SC plan shall be kept on site and available for iness hours. Documentation Requirements Initial and date each EBSC measure on a date and sign an impaction report that lists each EBSC measure shown on the approved EBSC.	SECTION C: REPORTING 1. Occurrences that Must be Rep. Permittees shall report the foll (a) Visible sediment deposition (b) Oil spills If: • They are 25 gallons or m • They are less than 25 gall • They cause sheen on sur	llowing occurrences: on in a stream or wetland. nore, allons but cannot be cleaned up within 24 hours,	
Self-inspections are required during norm below. When adverse weather or site co personnel to be in jeoparty, the inspection greater than 1.0 inch occurs outside of no performed upon the commencement of t inspections were delayed shall be noted in the state of the second state of the second inspection were delayed shall be noted in inspection were delayed shall be noted in the second state of the second state inspection of the second state of the second performed upon the second state of the inspection state of the second state instatistical in desire of the second state of the second boost of a rate 1. Ident metaures 2 to lanch in the state of the second state of the performance of the second state of the second state of the second state of the second state of the second state of the second state of the boost of a rate 1. Ident in the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state is the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of th	Inditions would cause the safety of the inspection on may be delayed unit the next business day on . In addition, when a storm event of equal to or romal business days, the yelf-inspection shall be the next business day. Any time when in the inspection Record. an records must include: "Infail amounts: "Infail amounts: "In the same observations are made during weekend of the same observations are made during weekend of the provide many business in the same observations in a record in usual the determine if a site inspection to the permitten may us another in a the inspection to the permitten may us another in the monitoring device of the thosistin.	1. E&SC Plan Documentation The approved E&SC plan as well as any ag approved E&SC plan must be kept u-to-to- the following terms pertaining to the E&S inspection at all times during normal busi term to Document (a) Each E&SC measure has been installed bodies on chargendeamy deviate from the mode does not agendeamy deviate from the	date throughout the coverage under this permit. Sc plan shall be kept on site and available for iness hours. Documentation Requirements initial and date acth IBSC measure on a copy in the anorough ISSC measure on a copy	Occurrences that Must be Repu Permittees shall report the follo (a) Visible sediment deposition (b) Oil spills if: They are 25 gallons or mo They are less than 25 gal They cause sheen on sur	llowing occurrences: on in a stream or wetland. nore, allons but cannot be cleaned up within 24 hours,	
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Bit Distribution Participation (b) Groups All ware ash share 3. The principation of the princitation of the principa	nal Office are Part III, Section C, Term (2)(a) of this permit. Make of grading elimitation of permitted EASC marks of grading elimitation of permitted EASC marks of the permitted of the permitted are formed and the permitted of the permitted are formed and the permitted of the permitted d over). The the the percentration of the permitted marks of the permitted of the permitted of the permitted marks of the permitted of the permitted of the permitted marks of the permitted of the permitted of the permitted permitted d with documentation of the non-surface with plan authority has approved these items, set or a properly designed store pad is used to the exists set or a properly designed store pad is used to the exists of the perperived assignment trans, and in first ons years of the properly designed store pad is used to the exists of the perperived assignment trans, and in first ons years of the perperived assignment trans, and is lowed to the exist of the exists of the perperived assignment the permitted of the permitte	(b) Records of inspections made during t record the required observations on Division or a similar inspection form t electronically-available records in lie shown to provide equal access and u and the second of the records of the All data used to complete the -NOI and a of three years after project completion an SERS FOR MAINTENANCE OR CLOSE OUT substrist for MAINTENANCE OR CLOSE OUT substrist for MAINTENANCE OR CLOSE OUT substrist for a MaintENANCE of the second solution of the specific time periods or conditi with Part III, Section C, Item (2)(c) and (d) of thi orm stormwater that is removed from the setters, tent feasible at the outlet of the dewatering drev at the discharge points of all dewatering drev	the previous twelve months. The permittee shall the inspection Record Form provided by the that includes all the required elements. Use of of the required paper copies will be allowed if tilty as the hard-copy records. Years (in spection records shall be maintained for a period d made available upon request. [40 CFR 122.41] the surface when these devices need to be drawn down be rare (for example, times with extended cold weather), tions in which it will occur. The non-surface withdrawal is permit, nent basin. Examples of appropriate controls include atment devices described in item (c) above,	related cass (b) Oli spills and (b) Oli spills and (c) Oli spills (c) Oli Spills (c	susse, the permittee may be required to perform additional g, inspections or apply more stringent practices if stati- te that additional requirements are needed to assure compliance the that additional requirements are needed to assure compliance the statistic of the statistic of the statistic of the statistic de information about the date, time, nature, volume and of the spill or release. A least ten days before the date of the bypeas, if possible. It is all includes an evaluation of the anticipated quality and the statistic of the bypeas. It hears, no rail or electronic notification. Calendar days, a report that includes an evaluation of the d effect of the bypass. It hears, an oral or electronic notification. Calendar days, a report that includes an evaluation of the d effect of the bypass. It hears, and it causes the period of neocompliance has not and steps taken or binnes; and if the noncompliance, and steps taken or daines; and the noncompliance, and steps taken or daines; and the noncompliance the statistic eccurrence of the noncompliance. (40 CFR 122.410)(6). It may wave the requirement for a written report on a	
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Public Services • Engineering Division OVED STORM

Permit #