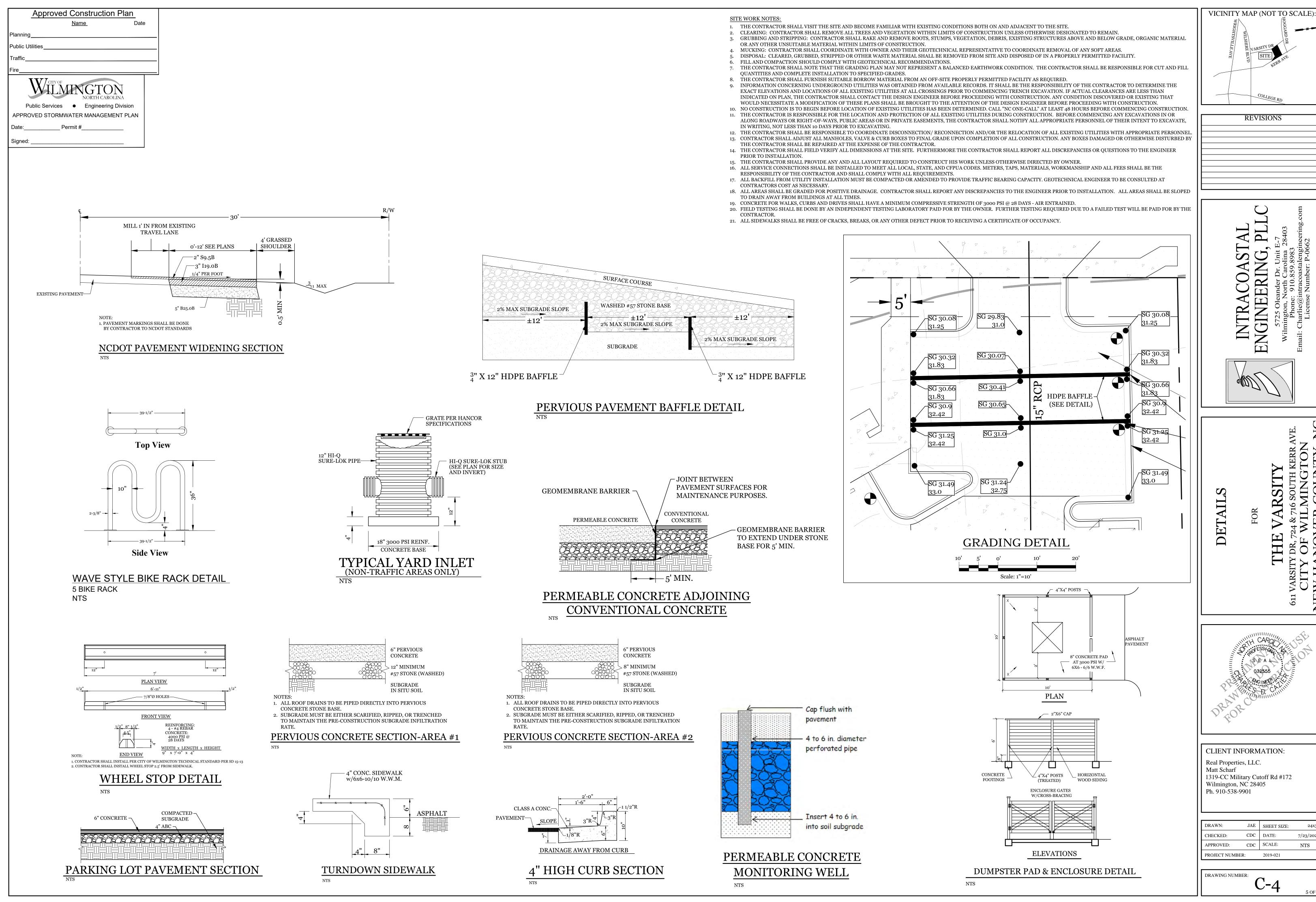


SYMBOL	GROUND STABILIZATION CRITERIA							
	SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS					
	* Perimeter dikes, ditches and slopes	7 Days	None					
	* High Quality Water (HQW) Zones	7 Days	None					
	* Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in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



COLLEGE RD

REVISIONS

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JAE SHEET SIZE:

2019-021

C-4

CDC DATE:

CDC SCALE:

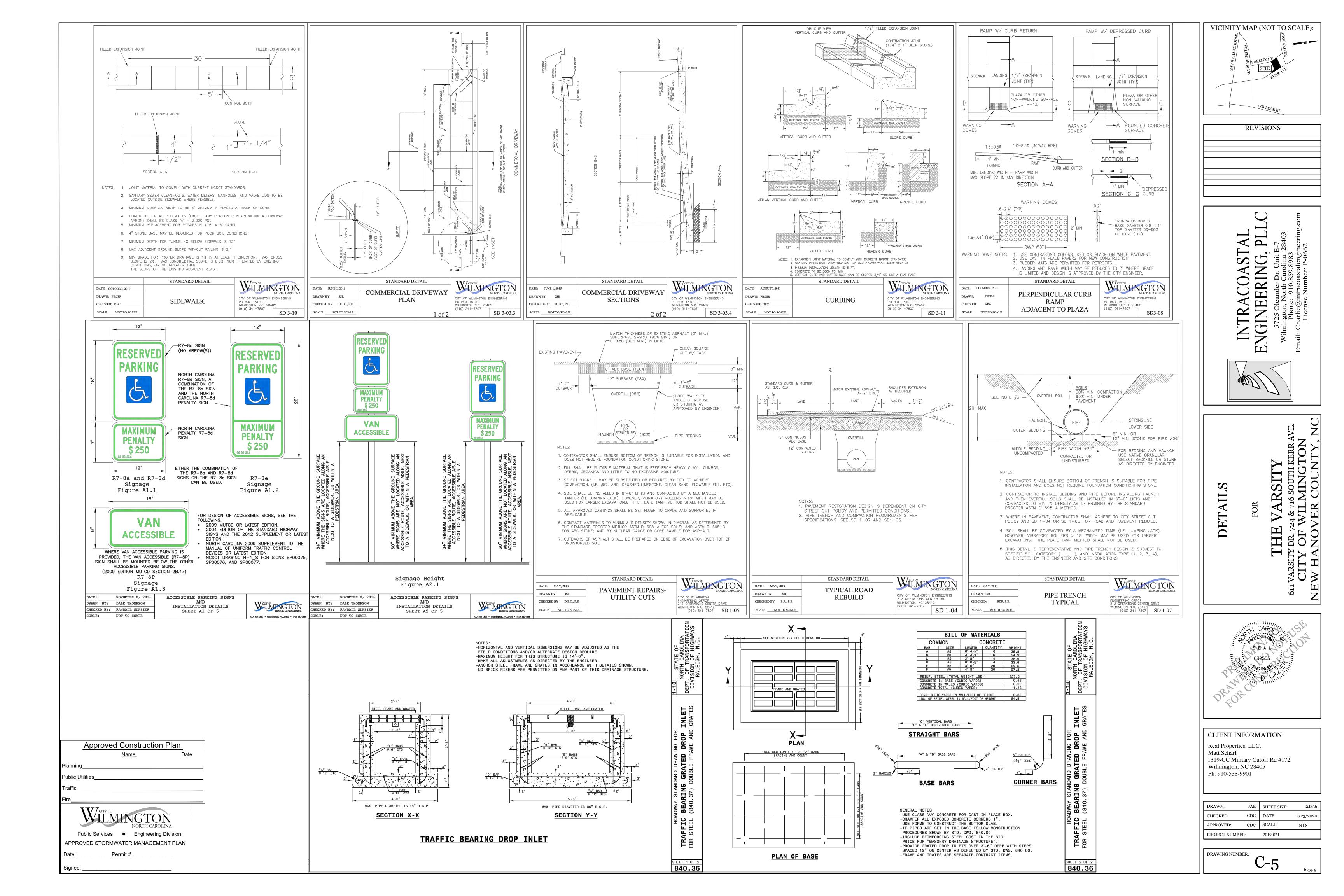
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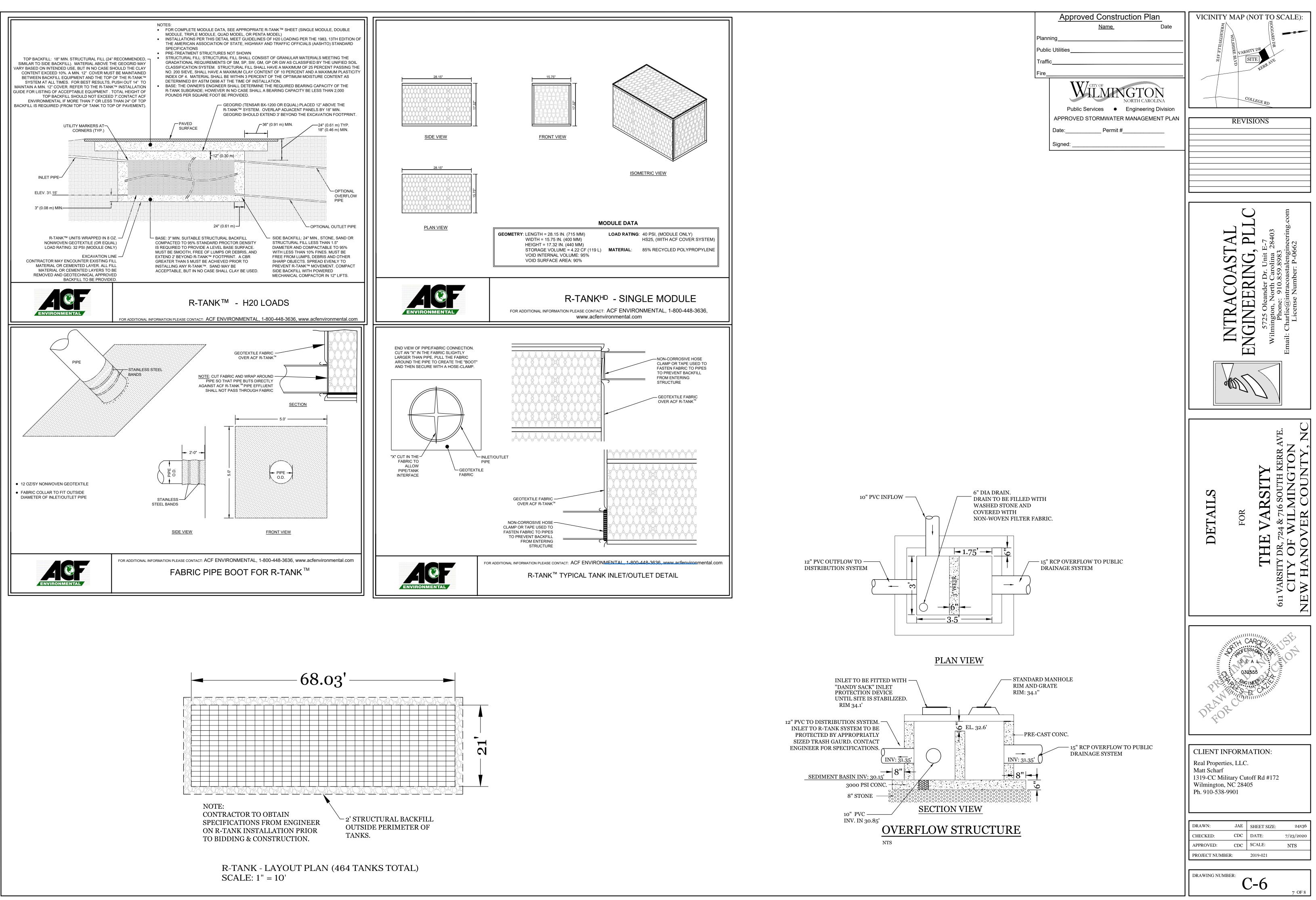
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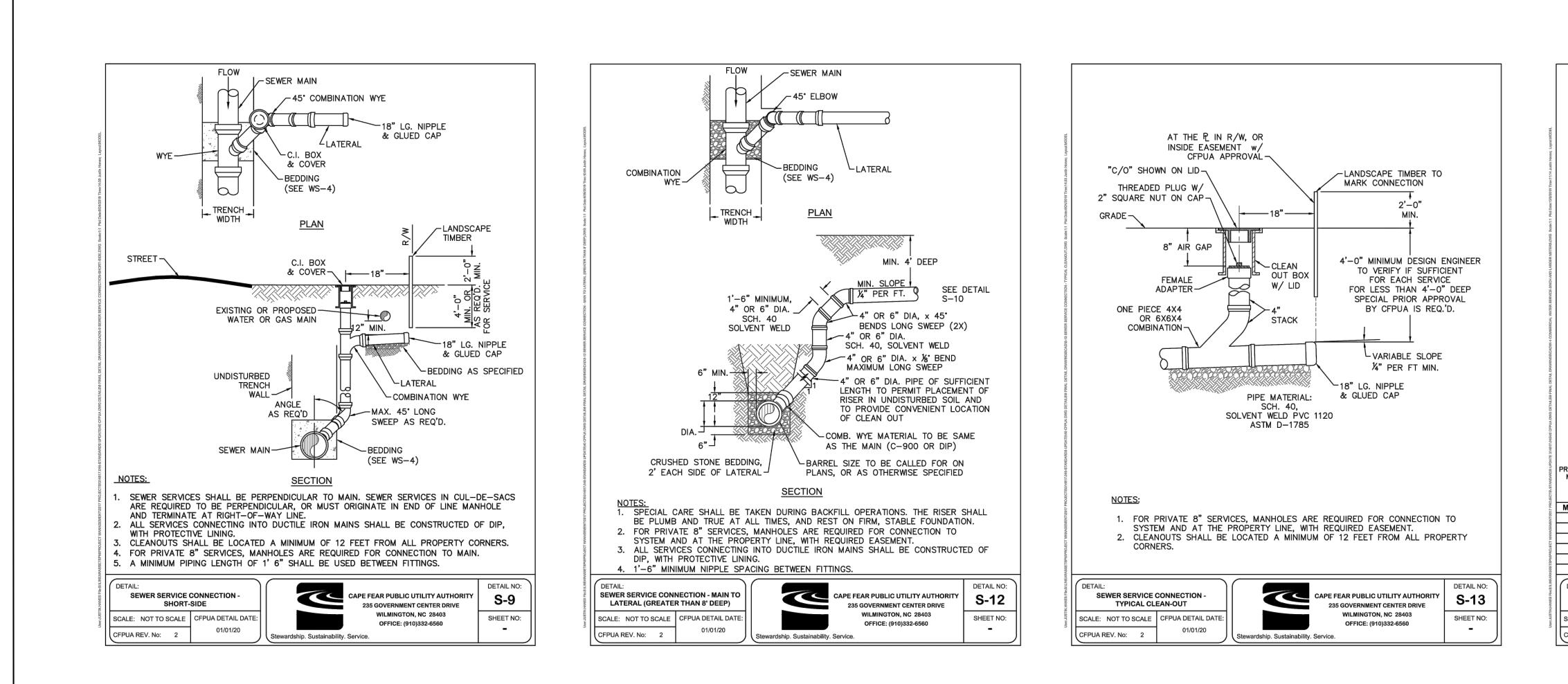
5 OF 8

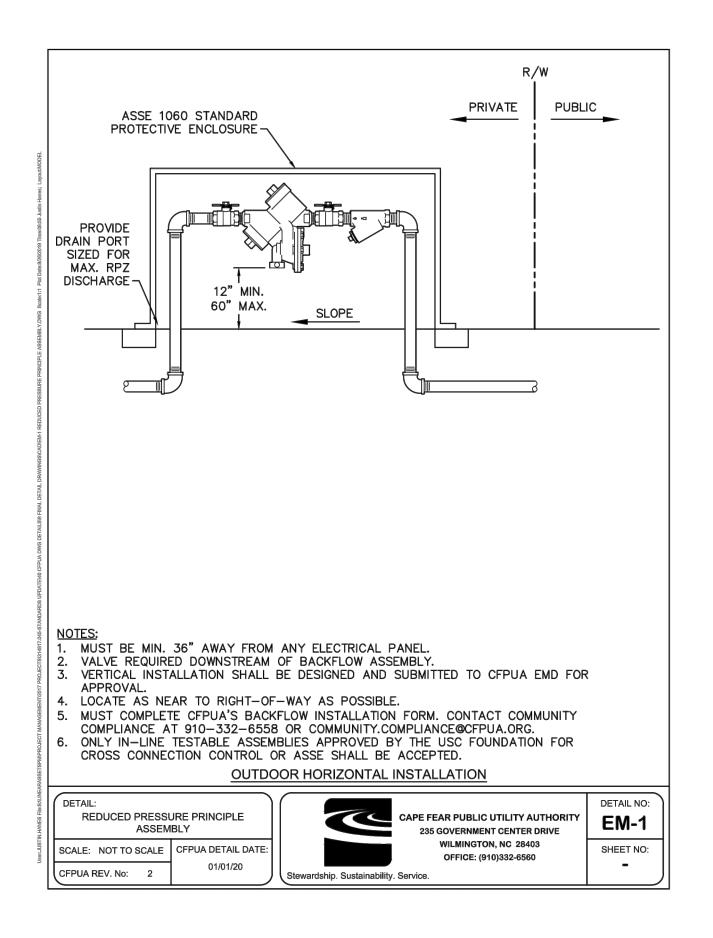
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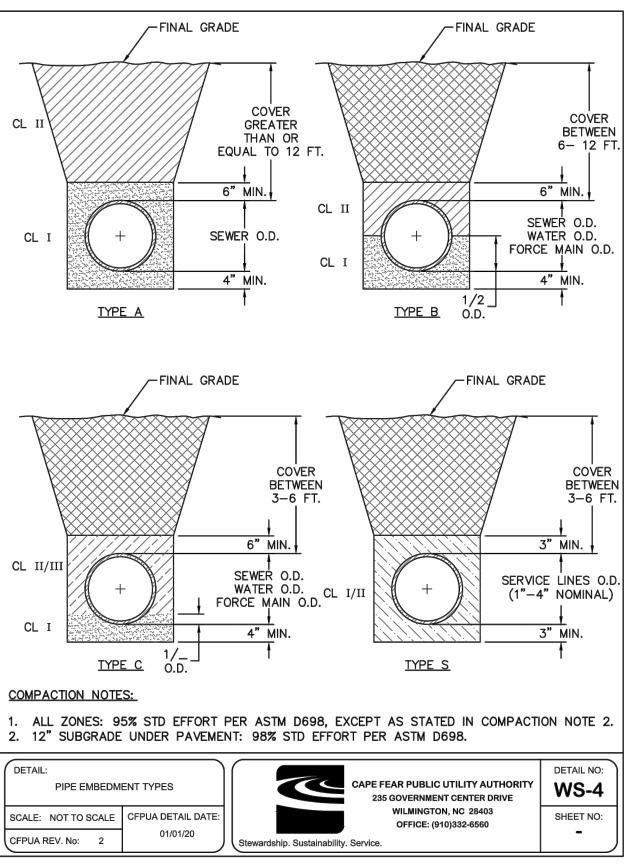
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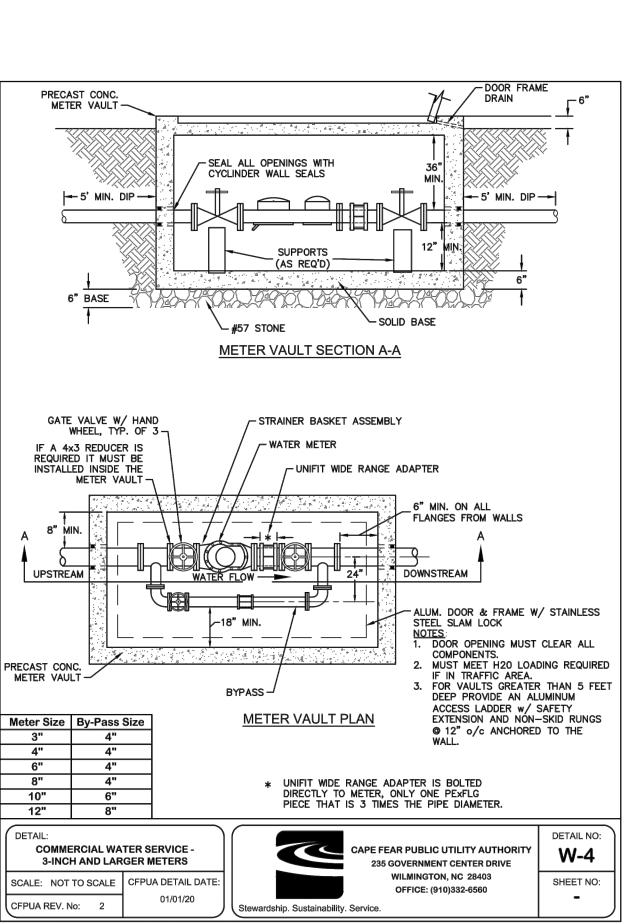


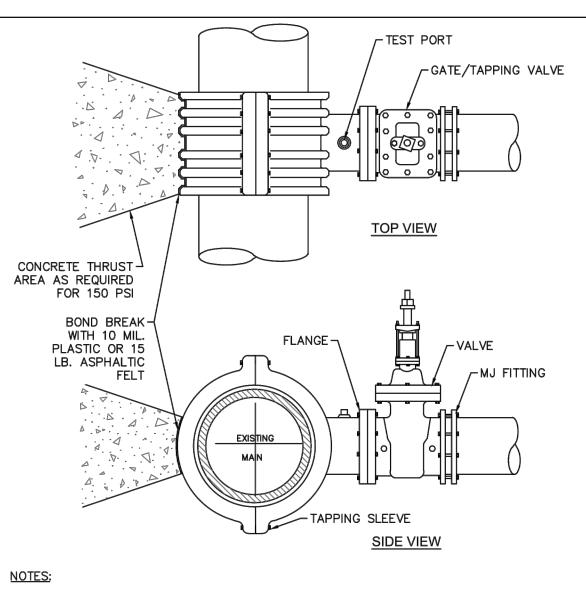




	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE	DETAIL NO: WS-4
DATE:	WILMINGTON, NC 28403 OFFICE: (910)332-6560	SHEET NO:
Stewardship. Sustainabilit	y. Service.	

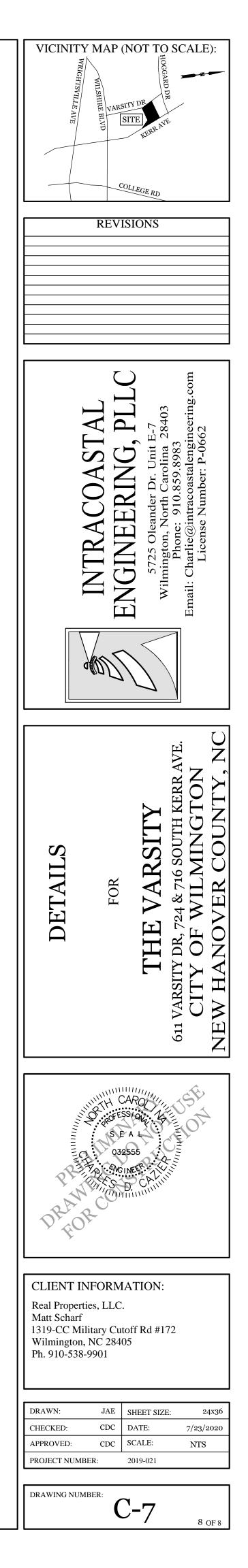
	<u>CA</u>	PE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:	
User_USTNHARES File-SkullerAraSSESPAPAROLECT MANAGENETTOOT PROJECTS-STANDARDS UPDATE 314317/04940 CFPUA DWG DETAUL DETAUL DETAUL DRAWINGS/CADWS-14 STANDARD NOTES.DWG Scaler1: Plot Date:12/92/049 Time:11:17, Justin Hanner, LayoutANDEL		ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS	
/5/2019 T		STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.	
DWG Scale:1:1 Plot Date:12/	3.		
O NOTES	4.	ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.	
/S-14 STANDARI	5.	MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW	
SICADIN	6.	DEVELOPMENTS. NO FLEXIBLE COUPLINGS SHALL BE USED.	
L DRAWING	7. 8.	ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM	
AL DETAI	9.	ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM	
AILS/9 FIN	10	THE PROPERTY CORNER. . UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER	
D CFPUA DWG DE	11.	SERVICES SHALL BE DISCONNECTED FROM MAIN. A MINIMUM OF 10' OF MAIN LINE, 5' UPSTREAM AND 5' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICE	
ATE 314817.0454	12	CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS. . A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CUT IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS	
OJECTSI-STANDARDS UPD	13	PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL JOINTS. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT PERMITTED	
F MANAGEMENT/2017 PF	14	WATER MAIN AND FORCE MAIN PIPE INSTALLED BY OPEN CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET BELOW FINISHED GRADE. DEPTHS GREATER THAN FIVE (5) FEET MUST BE APPROVED BY CFPUA.	
IEARASSETSPM/PROJECT	15	ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF THE LARGEST DIAMETER PIPE.	
TIN.HANES File:S:\LIN	DETAIL: STANDARI (REQUIRED ON ALL PLAN A	AND PROFILE SHEETS) 235 GOVERNMENT CENTER DRIVE	DETAIL NO:
UserJUS	SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/20 WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	SHEET NO:
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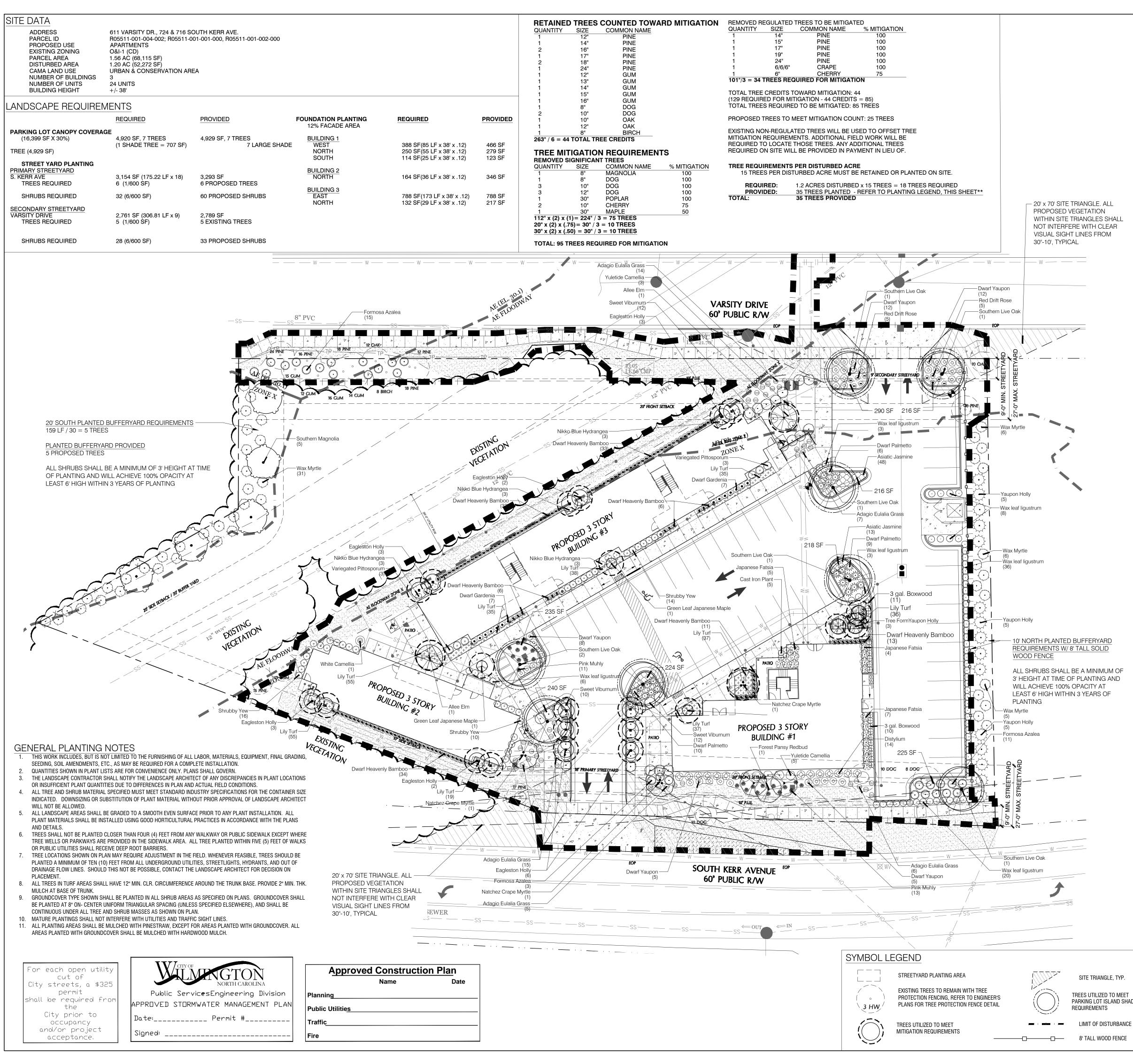




- CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
- PIPE & FITTING TO BE WRAPPED IN 10 MIL. PLASTIC OR 15 LB. ASPHALTIC FELT PRIOR TO THRUST BLOCK BEING POURED.
- TEST PRESSURE SHALL NOT BE APPLIED FOR A MINIMUM OF 7 DAYS AFTER THRUST BLOCK PLACEMENT.
- BRANCH SHALL NOT EQUAL RUN DIAMETER UNLESS APPROVED BY CFPUA ENGINEERING.

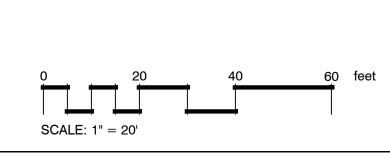
DETAIL: TAPPING SLEEVE AND (4"-24		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE	DETAIL NO:
SCALE: NOT TO SCALE CFPUA REV. No: 2	CFPUA DETAIL DATE: 01/01/20	WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	SHEET NO:





	WRIGHTSVILLE AVE.	VIII SHIRE BLVD	SIT	Y DR.	HOGGARD DR. W			MIHA LANDDES PLANNING + LANDSCAPE ARC
NOT TO			COLLE		Οαπ			Wilmington, NC 28405 910
	SCHEDULE							× × × × ×
TREES	BOTANICAL / COMMON NAME	CONT	CAL 1.5" CAL	RANGE 8-10`HT	MIN, REQ. SIZE 8-10`HT		QTY 3	
\bigcirc	Acer palmatum / Green Leaf Japanese Maple	15 gal	1.5 GAL	0-10 11	0-10 11		3	GAUA W. MINA
\square	Cercis c. `Forest Pansy` TM / Forest Pansy Redbud	25 GAL		8-10` HT	8-10` HT		3	Revisions 2020-05-12: Revise pe
	llex vomitoria / Tree FormYaupon Holly	B & B		8-10` HT	8-10` HT		3	comments 2020-07-20: Revise pe
$\overline{\mathbb{Q}}$	llex x a. `Eagleston` / Eagleston Holly	B&B		8` HT	8-10` HT		16	comments
	Lagerstroemia x `Natchez` / Natchez Crape Myrtle	B & B	2" CAL		2-2.5" CAL.		3	72
	Magnolia g. `D.D. Blanchard` TM / Southern Magnolia	B & B	3" CAL	8-10`HT	2-2.5" CAL.		5	# 17
	Quercus virginiana / Southern Live Oak	B & B	3" CAL		2-2.5" CAL.		8	
			01004					
	Ulmus p. `Emer II` / Allee Elm	B&B	3" CAL	12-14` HT	2-2.5" CAL.		2	
SHRUBS	BOTANICAL / COMMON NAME Aspidistra elatior / Cast Iron Plant	SIZE 1 gal	RANGE 15-18" HT	-	MIN, REQ. SIZE		QTY 5	CUT CUT CUT
	Azalea i. `Formosa` / Formosa Azalea	3 gal	18-24" HT				29	
ADUNING LAU SANA	Buxus m. `Wintergreen` / 3 gal. Boxwood	3 gal	12-18" HT				21	DE NC
<u> </u>	Camellia s. `Hana Jiman` / White Camellia	7 gal	24-36" HT		12" HT		1	PBC MILI
<u> </u>	Camellia s. `Yuletide` / Yuletide Camellia	7 gal	36" HT		3` HT		8	
·	Distylium myricoides `Cinnamon Girl` / Distylium	3 gal	15-24" Ht.				14	CLIEN REAL 1319-C
<u> </u>	Fatsia japonica / Japanese Fatsia	7 gal	24-30" HT				16	CLIEN PEA 1319-(
255 (Gardenia radicans / Dwarf Gardenia	7 gal	12-18" HT				14	
	Hydrangea m. `Nikko Blue` / Nikko Blue Hydrangea	3 gal	12-15" HT				12	AVE
	llex vomitoria / Yaupon Holly	7 gal	3-4` HT	3` HT			15	KERR
	llex vomitoria `Nana` / Dwarf Yaupon	3 gal	15-18" HT				42	
 	Ligustrum j. `Recurvifolium` / Wax leaf ligustrum	7 gal	36" HT	3` HT			71	0 0
	Miscanthus s. `Adagio` / Adagio Eulalia Grass	3 gal	15-18" HT				56	7 7
 ₩	Muhlenbergia capillaris / Pink Muhly	3 gal	15-18" HT	12" HT			24	4 ∞ 0
	Myrica cerifera / Wax Myrtle	7 gal	3-4` HT	3` HT			46	× 724
	Nandina domestica `Harbour Dwarf` / Dwarf Heavenly Bamboo	7 gal	18-24" HT				136	
	Pittosporum t. `Variegata` / Variegated Pittosporum	3 gal	18-24" HT				6	LECT VARS RSITY L
(+)	Podocarpus macrophyllus maki / Shrubby Yew	10 gal	4-5` HT				39	
	Rosa x `Meigalpio` / Red Drift Rose	3 gal	12-15" HT				10	PROJECT THE VA 611 VARSI WII MINGT
M. M.	Sabal minor / Dwarf Palmetto	3 gal	18-24" HT				25	HH 611 611
· · · · · · · · · · · · · · · · · · ·	Viburnum odoratissimum / Sweet Viburnum	7 gal	5-6`HT				34	
GROUND COVERS	BOTANICAL / COMMON NAME	SIZE	RANGE			SPACING	QTY	CONSTRUCT
	Liriope muscari / Lily Turf	1 qt	6-12" HT			18" o.c.	270	DOCUMEN
	Trachelospermum a. `Asiatic` / Asiatic Jasmine	1 qt	6-12" HT			18" o.c.	78	REVIEW SE
		SIZE	RANGE			SPACING	QTY	Date: 20





Sheet Number: of 1 sheets

Checked by:

Sheet Title:

PLANTING PLAN

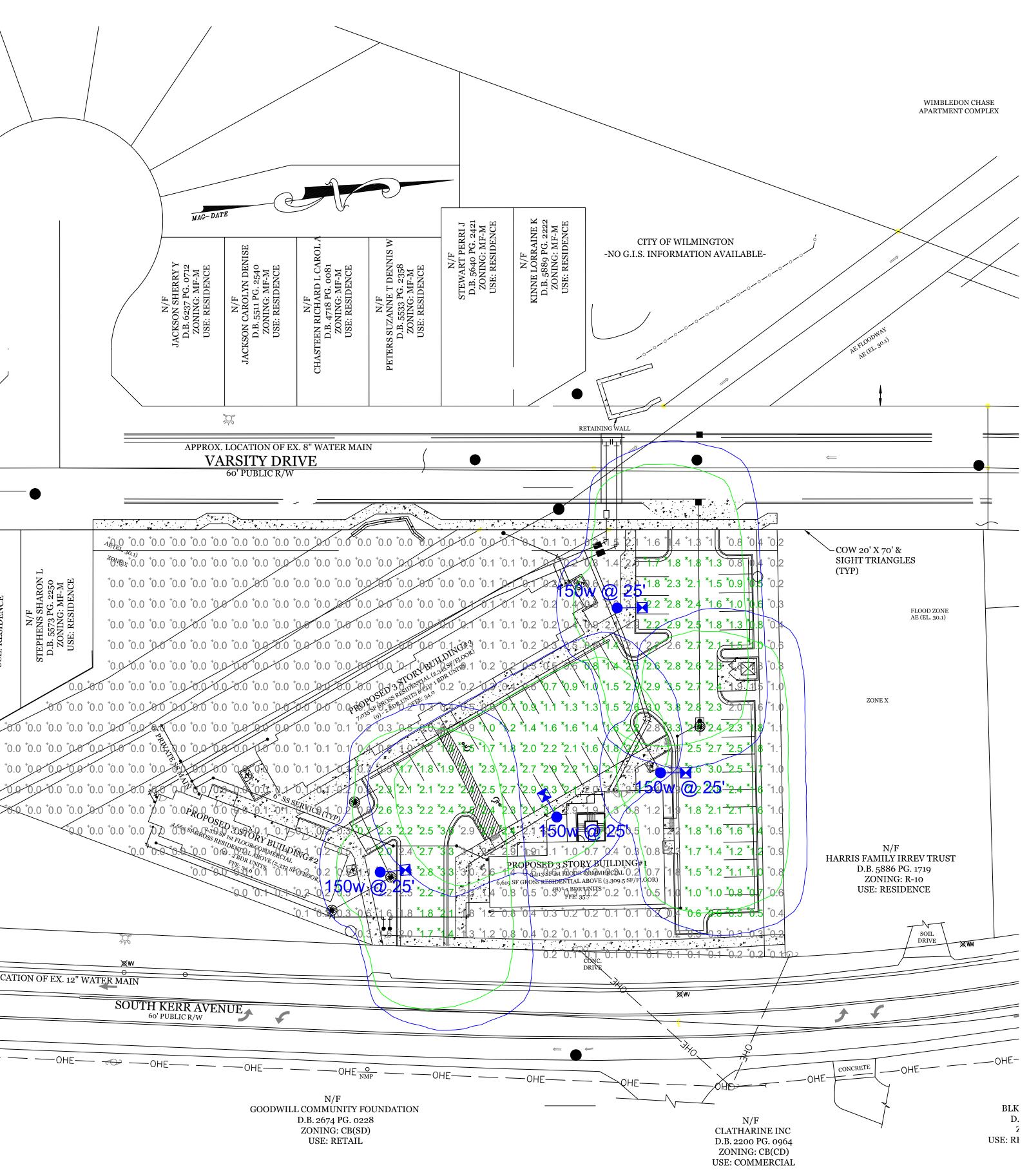
JWM

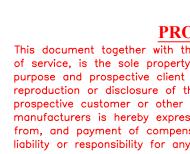
atistics		Avg	Max	Min	Max/Min	Avg/Min					N/F IARDSON INVESTMENT GROUP D.B. 4401 PG, 0770	ZONING: MF-M USE: RESIDENCE	N/F UTESON MICHAEL MICHELLE M D.B. 3140 PG, 0010
erall Grid	Symbol + X	0.8 fc 1.9 fc	3.8 fc 3.8 fc	0.0 fc 0.5 fc	N/A 7.6:1	N/A 3.8:1					RICE		
erall Grid rking edule /mbol	+	Quantity D	3.8 fc	0.5 fc			Lumens Per Lamp 385	Light Loss 0.8	N/ N BREW).B. 6153 ZONIN	/F VING COMPAN PG. 2693 G: O&I-1 IMERCIAL	ZONE X AE FLOODWAY		+0.0 0.0 +0.0 +0.0
erall Grid king edule mbol Fixture: Mountin LIGHT SC LUMENS PATTERN NOTE: TH BIL	Label 150w ISOFC	Quantity Du Quantity Du 4 Ll 0 A 0 CRI 64 (zero light at EADINGS BEI D FOR LED LL 0 FRECIATION	3.8 fc escription ED 150w S LE CURV or above 90 d OW ARE MA MEN DEPRE FOR INITIAL	0.5 fc hoebox - T /ES ASS POL BRA degrees) INTAINED AN	7.6:1 ype IV - 4000K Y# LFIX-SBX-LED-1 E ASSY# LPOLE-AI CKET ASSY# LBKT	3.8:1	/P QP (BLACK)	0.8	N/ N BREW).B. 6153 ZONIN	/ING COMPAN 3 PG. 2693 G: O&I-1	ZONE X AE FLOODWAY Y LLC	0.0 +	+0.0 +0.0 +0.0
FIXTURE: MOUNTIN LIGHT SC LUMENS PATTERN NOTE: TH BI LU	Label Label 150w ISOFC LED150, EATON IG HEIGHT: 25 FT JURCE: LED'S, 400 - 18459 I: TYPE IV B3-U0-G E FOOTCANDLE F EF OOTCANDLE F EF OOTCANDLE F EF OOTCANDLE F EF OOTCANDLE F EF OOTCANDLE F	Quantity Du Quantity Du 4 Ll 0 A 0 CRI 64 (zero light at EADINGS BEI D FOR LED LL 0 FRECIATION	3.8 fc escription ED 150w S LE CURV or above 90 d OW ARE MA MEN DEPRE FOR INITIAL	0.5 fc hoebox - T /ES ASS POL BRA degrees) INTAINED AN	7.6:1 ype IV - 4000K Y# LFIX-SBX-LED-1 E ASSY# LPOLE-AI CKET ASSY# LBKT	3.8:1	/P QP (BLACK)	0.8	35 N/ N BREW).B. 6153 ZONIN 3E: COM	VING COMPAN 3 PG. 2693 G: O&I-1 IMERCIAL	ZONE X AE FLOODWAY Y LLC	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

and are based on specific information that has been supplied to Duke Energy Progress. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

DISTANCE CALIBRATION (INCHES)

0 0.5 1.0 2.0 3.0 4.0







	THE VARSITY
ROPRIETARY & CONFIDENTIAL	WILMINGTON, NC
h the concepts and designs presented herein, presented as an instrument perty of Duke Energy Progress, and is intended only for the specific	SITE LIGHTING PLAN
ient as stated in the title block of this drawing. Any use, copying,	Designed byDEP LIGHTING SOLUTIONS
of the drawing, design or any information contained herein by the her entities, including without limitation, architects, engineers, or equipment	Reviewed by <u>N. Johnson</u> Scale <u>1" = 20'</u>
pressly prohibited and shall not be permitted absent prior written consent	Date
pensation to Duke Energy Progress. Duke Energy Progress disclaims any any unauthorized use of or reliance on this document.	Description LED 150w Shoebox
	Drawing No 20-0123A Sht1 OF 1

EXTERIOR MATERIAL SCHEDULE				LEGEND		KEY NOTES		
HATCH/KEY	MATERIAL	BASIS OF DESIGN/PRODUCT/MANUFACTURER	COLOR		2X6 STUD WALL	WH	WATER HEATER	
	FIBER CEMENT LAP SIDING	JAMES HARDI ARTISAN LAP	xxx		2X4 STUD WALL	REF	REFRIGERATOR	
		SIDING, 6" EXPOSURE		- · ·	I HR RATED WALL	DS	DOWNSPOUT	
	FIBER CEMENT PANELS WITH IX BATTEN STRIPS AT X'-0" OC				I HR INTERIOR BEARING WALL		INDICATES 30" X 48" CLEAR FLOOR SPACE	
				WT-X	INDICATES WALL TYPE, SEE DETAILS SHEET GI5		INDICATES REQUIRED CLEAR FLOOR SPACE	
	HORIZONTAL SHIPLAP SIDING	JAMES HARDI ARTISAN SHIPLAP SIDING, 9" EXPOSURE		FE	FIRE EXTINGUISHER, MIN 2-A:10-B:C (WALL TYPE)		PER ANSI IIT,I CODE (2009)	
	STONE VENEER	PLY-GEM STONE LEDGESTONE		(102)	INDICATES DOOR NUMBER. SEE SCHEDULE SHEET A6.1		EXHAUST WALL CAP FINISH TO MATCH EXTERIOR WALL FINISH	
				$\langle A \rangle$	INDICATES WINDOW MARK SEE SCHEDULE SHEET A&I			

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	FIBER CEMENT LAP SIDING SMOOTH (6" EXPOSURE)	
	FIBER CEMENT LAP SIDING SMOOTH (" EXPOSURE) FIBER CEMENT 5/4X4 CORNER TRIM PLYGEM SINGLE HUNG EXHAUST VENTS SEE DETAIL 8/A3.1 PLYGEM SINGLE HUNG	
SF-A	FIBER CEMENT SHIPLAP (9" EXPOSURE) KAWNEER 45I-T ALUM STOREFRONT (BLACK ANODIZED) STONE VENEER	

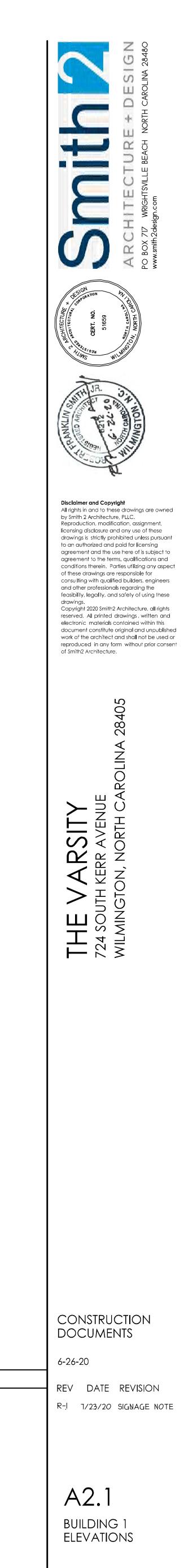


OVERFLOW SCUPPER		FIBER CEMENT - LAP SIDING SMOOTH (6" EXPOSURE)	
		FIBER CEMENT - LAP SIDING SMOOTH (6" EXPOSURE)	
		FIBER CEMENT - 5/4X4 CORNER TRIM	
		- PLYGEM SINGLE HUNG	
		FIBER CEMENT BOARD & BATTEN	
		FIBER CEMENT SHIPLAP (9" EXPOSURE)	
		MECH LOUVER	
		- FIBER CEMENT SHIPLAP (9" EXPOSURE)	
(SF-A) (SF-B) (IOO)	(SF-A)	- KAWNEER 45I-T ALUM STOREFRONT (BLACK ANODIZED)	
		STONE VENEER	
WI	ILDING 1 EST ELEVATION ALE 3/16" = 1'-0"		



SCALE 3/16" = 1'-0"





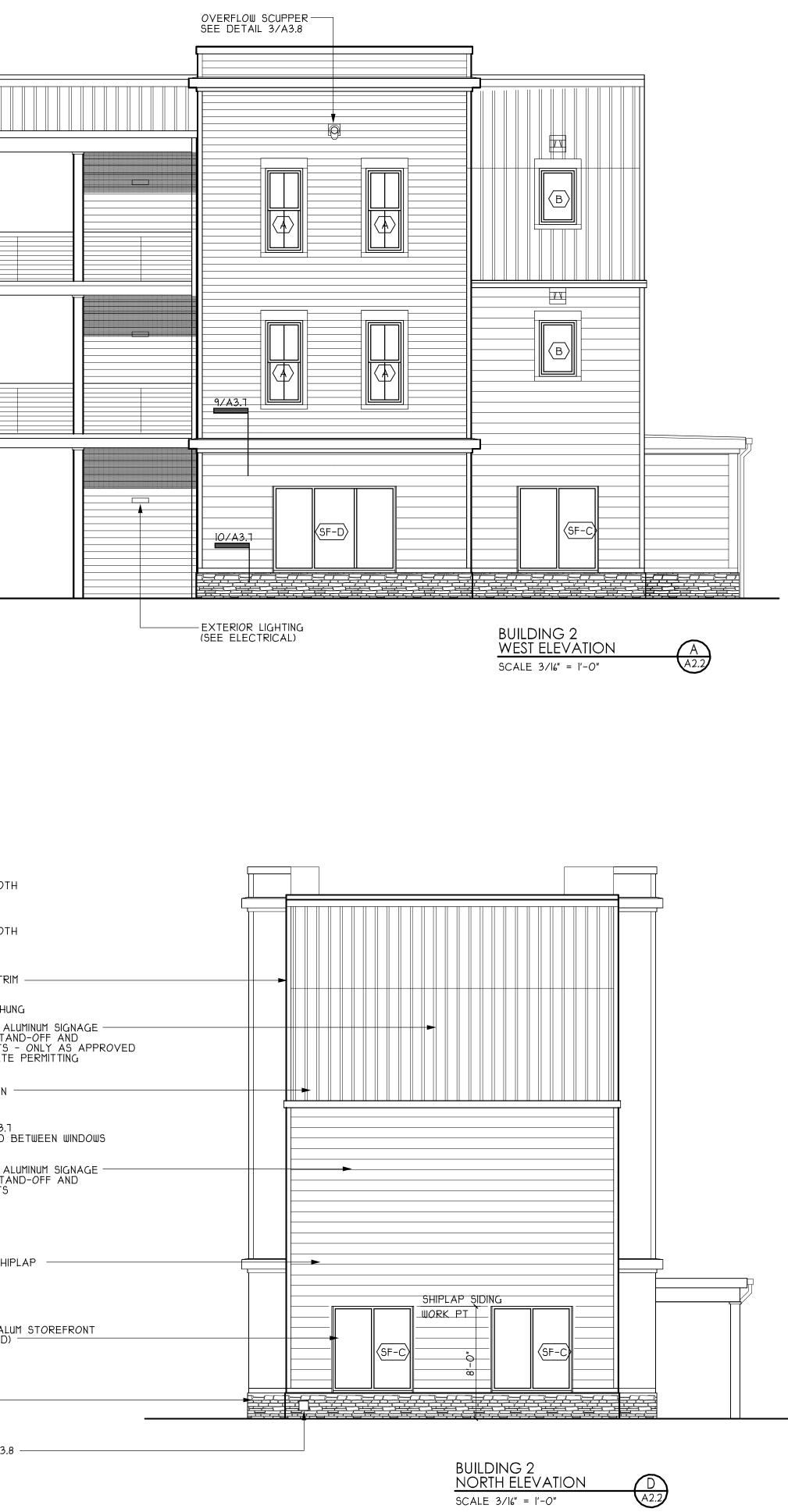


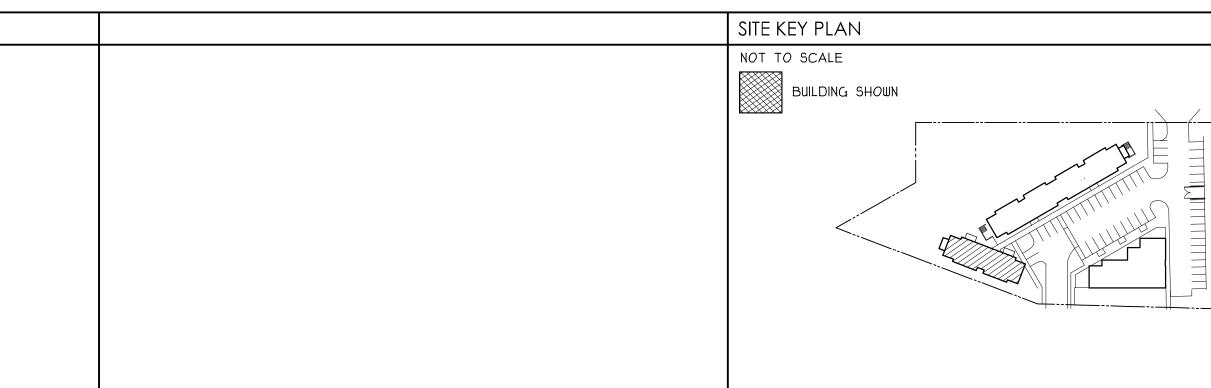
EXTERIOR MATERIAL SCHEDULE				LEGEND				KEY NOTES
HATCH/KEY	MATERIAL	BASIS OF DESIGN/PRODUCT/MANUFACTURER COLOR		<u> </u>	2X6 STUD WALL	WH	WATER HEATER	
	FIBER CEMENT LAP SIDING	JAMES HARDI ARTISAN LAP XXX SIDING, 6" EXPOSURE			2X4 STUD WALL I HR RATED WALL	REF DS	REFRIGERATOR DOWNSPOUT	
	FIBER CEMENT PANELS WITH IX BATTEN STRIPS AT X'-O" OC				I HR INTERIOR BEARING WALL INDICATES WALL TYPE, SEE DETAILS SHEET GI5		INDICATES 30" X 48" CLEAR FLOOR SPACE INDICATES REQUIRED	
	HORIZONTAL SHIPLAP SIDING	JAMES HARDI ARTISAN SHIPLAP SIDING, 9" EXPOSURE		FE	FIRE EXTINGUISHER, MIN 2-A:10-B:C (WALL TYPE)		CLEAR FLOOR SPACE PER ANSI IIT.I CODE (2009)	
	STONE VENEER	PLY-GEM STONE LEDGESTONE			INDICATES DOOR NUMBER, SEE SCHEDULE SHEET A6.1 INDICATES WINDOW MARK SEE SCHEDULE SHEET A6.1		EXHAUST WALL CAP FINISH TO MATCH EXTERIOR WALL FINISH	

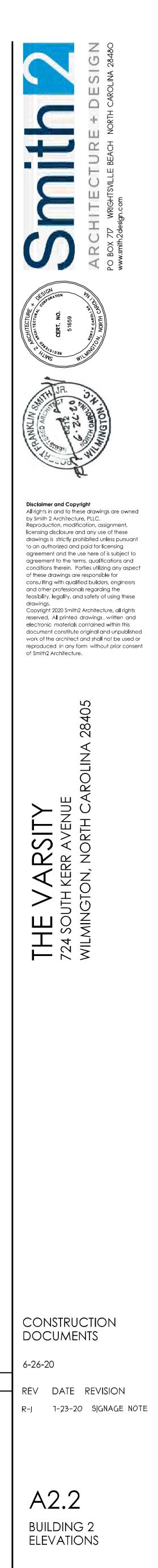
FIBER CEMENT LAP SIDING SMOOTH		
PLYGEM SINGLE HUNG FIBER CEMENT - 5/4X4 CORNER TRIM		
PLYGEM 1500 FIXED UNIT		
FIBER CEMENT — 5/4X8 TRIM — FIBER CEMENT SHIPLAP		
(9" EXPOSURE) FIBER CEMENT LAP SIDING SMOOTH (6" EXPOSURE)		
- EXTERIOR LIGHTING (SEE ELECTRICAL) KAWNEER 45I-T ALUM STOREFRONT		SHIPLAP SIDING
STONE VENEER		
- HOSE BIBB		

-HOSE BIBB SEE DETAIL 2/A3.8

] 	FIBER CEMENT
		 (6" EXPOSURE) FIBER CEMENT LAP SIDING SMOOTH (6" EXPOSURE) FIBER CEMENT 5/4X4 CORNER TRIN PLYGEM SINGLE HUN ARCHITECTURAL AL LETTERS WITH STAN LED BACK LIGHTS THROUGH SEPRATE FIBER CEMENT BOARD & BATTEN EXHAUST VENTS SEE DETAIL 8/A3.1 EQUALLY SPACED E ARCHITECTURAL AL LETTERS WITH STAN LED BACK LIGHTS
		FIBER CEMENT SHIP (9" EXPOSURE)
	SF-C	KAWNEER 45I-T ALU (BLACK ANODIZED) STONE VENEER
BUILDING 2 KERR AVENUE EAST ELEVATION SCALE 3/16" = 1'-0"		HOSE BIBB SEE DETAIL 2/A3.8







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nsite n ne ra nance wi E&SJ not- non- ateri erly etate city

N /	AND MATERIALS HAI	NDLING PRACTICES FOR COMPLIANCE WITH	EQUIPMENT AND VEHICLE MAINTENANCE
TIC	N GENERAL PERMIT		EQUIPMENT AND VEHICLE MAINTENANCE ENSITE CENCRETE WASHOUT 1. Maintain vehicles and equipment to prevent discharge of fluids. STRUCTURE WITH LINER
		this plan sheet will result in the construction	2. Provide drip pans under any stored equipment.
		round Stabilization and Materials Handling	3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
		rmit (Sections E and F, respectively). The	
		diment Control plan approved by the	4. Collect all spent fluids, store in separate containers and properly dispose as
		ails and specifications shown on this sheet	
ng (on site conditions and	d the delegated authority having jurisdiction.	5. Remove leaking vehicles and construction equipment from service until the problem
- ^ 6	BILIZATION		has been corrected.
			6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products
Re	equired Ground Stab	ilization Timeframes	to a recycling or disposal center that handles these materials.
	Stabilize within this	s	
,	many calendar	Timeframe variations	BELOW GRADE WASHOUT STRUCTURE ABOVE GRADE VASHOUT STRUCTURE NOT TO SCALE
•	days after ceasing		LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE
	land disturbance		1. Never bury or burn waste. Place litter and debris in approved waste containers.
			2. Provide a sufficient number and size of waste containers (e.g dumpster, trash CONCRETE WASHOUTS
nd	7	None	receptacle) on site to contain construction and domestic wastes. 1. Do not discharge concrete or cement slurry from the site.
			3. Locate waste containers at least 50 feet away from storm drain inlets and surface 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local
er	_	News	waters unless no other alternatives are reasonably available.
	7	None	4. Locate waste containers on areas that do not receive substantial amounts of runoff 3. Manage washout from mortar mixers in accordance with the above item and in
		If slopes are 10' or less in length and are	from upland areas and does not drain directly to a storm drain, stream or wetland.
an	7	not steeper than 2:1, 14 days are	5. Cover waste containers at the end of each workday and before storm events or lot perimeter silt fence.
	,	allowed	provide secondary containment. Repair or replace damaged waste containers. 4. Install temporary concrete washouts per local requirements, where applicable. If ar
		-7 days for slopes greater than 50' in	6. Anchor all lightweight items in waste containers during times of high winds.
		length and with slopes steeper than 4:1	7. Empty waste containers as needed to prevent overflow. Clean up immediately if review and approval. If local standard details are not available, use one of the two
		-7 days for perimeter dikes, swales,	containers overflow. types of temporary concrete washouts provided on this detail.
	14	ditches, perimeter slopes and HQW	8. Dispose waste off-site at an approved disposal facility. 5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk
		Zones	9. On business days, clean up and dispose of waste in designated waste containers. sections. Stormwater accumulated within the washout may not be pumped into or
		-10 days for Falls Lake Watershed	discharged to the storm drain system or receiving surface waters. Liquid waste mus
		-7 days for perimeter dikes, swales,	PAINT AND OTHER LIQUID WASTE be pumped out and removed from project.
		ditches, perimeter slopes and HQW Zones	
	14	-10 days for Falls Lake Watershed unless	can be shown that no other alternatives are reasonably available. At a minimum,
	14	there is zero slope	install protection of storm drain inlet(s) closest to the washout which could receive
			spins of overnow.
		iction activities, any areas with temporary	7. Locate washouts in an easily accessible area, on level ground and install a stone
		anent ground stabilization as soon as dar days after the last land disturbing	4. Containment must be labeled, sized and placed appropriately for the needs of site. entrance pad in front of the washout. Additional controls may be required by the
		be maintained in a manner to render the	5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from approving authority.
		permanent ground stabilization is achieved.	
		permanent ground stabilization is demeved.	Boottable tou strong and the washout itself to identify this location.
N S	SPECIFICATION		9. Remove leavings from the washout when at approximately 75% capacity to limit
fici	ently so that rain will	I not dislodge the soil. Use one of the	overhow events. Replace the taip, sand bags of other temporary structural
	ow:	-	streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place products, follow manufacturer's instructions.
tab	ilization	Permanent Stabilization	products, follow individually and base
		Permanent grass seed covered with straw or	 Provide staking or anchoring of portable toilets during periods of high winds or in high 10. 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
ifie		other mulches and tackifiers	foot traffic areas.
		Geotextile fabrics such as permanent soil	3. Monitor portable toilets for leaking and properly dispose of any leaked material.
oro		reinforcement matting	Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace
		Hydroseeding	with properly operating unit.
tra		Shrubs or other permanent plantings covered	HERBICIDES, PESTICIDES AND RODENTICIDES
		with mulch Uniform and evenly distributed ground cover	EARTHEN STOCKPILE MANAGEMENT 1. Store and apply herbicides, pesticides and rodenticides in accordance with label
		sufficient to restrain erosion	1. Show stocknike locations on plans. Locate earthen material stocknike areas at least
		Structural methods such as concrete, asphalt or	50 fact away from storm drain inlets, addiment basing, perimeter sediment controls
		retaining walls	and surface waters unless it can be shown no other alternatives are reasonably
	•	Rolled erosion control products with grass seed	available
	,		 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of 3. Do not store herbicides, pesticides and rodenticides in areas where flooding is a. Do not store herbicides, pesticides and rodenticides in areas where flooding is
M	S) AND FLOCCULANT	rs	five feet from the tee of steeknile
		 r the soils being exposed during	Of surface water. If a spin occurs, clean area infinediately.
		List of Approved PAMS/Flocculants.	 4. Stabilize stockpile within the timeframes provided on this sheet and in accordance 4. Do not stockpile these materials onsite.
		o Erosion and Sediment Control Measures.	with the approved plan and any additional requirements. Soil stabilization is defined
		pecified in the NC DWR List of Approved	as vegetative, physical or chemical coverage techniques that will restrain accelerated
		h the manufacturer's instructions.	erosion on disturbed soils for temporary or permagent control needs
		treated Stormwater before discharging	1. Create designated hazardous waste collection areas on-site.
			2. Place hazardous waste containers under cover or in secondary containment.
in l	eak-proof containers	s that are kept under storm-resistant cover	3. Do not store hazardous chemicals, drums or bagged materials directly on the ground
	condary containmen		Environmental Quality

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

SELF-INSPECTI	PART III ON, RECORDKEEPING AND REPORTING			PART III CORDKEEPING AND REPORTING	Γ	S	PART III ELF-INSPECTION, RECORDKEEPING AND REPORTING		
NSPECTION re required during normal business hours in accordance with the table erse weather or site conditions would cause the safety of the inspection jeopardy, the inspection may be delayed until the next business day on perform the inspection. In addition, when a storm event of equal to or inch occurs outside of normal business hours, the self-inspection shall be he commencement of the next business day. Any time when inspections I be noted in the Inspection Record.		1.	SELT-INSPECTION, RECORDREEPING AND REPORTING SECTION B: RECORDREEPING 1. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours. Item to Document Documentation Requirements (a) Each E&SC measure has been installed and does not significantly deviate from the Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date			SELF-INSPECTION, RECORDREEPING 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,			
(during normal <u>susiness hours)</u> Daily At least once per 7 calendar days	Inspection records must include: Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division. 1. Identification of the measures inspected, 2. Date and time of the inspection,	s	b) A phase of grading has been completed.	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. Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the		 They are with (c) Releases of haz of the Clean W. (Ref: 40 CFR 30 	heen on surface waters (regardless of volume), or hin 100 feet of surface waters (regardless of volume). ardous substances in excess of reportable quantities under Section 311 ater Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA 2.4) or G.S. 143-215.85.		
7 calendar days 2. Date and time of the inspection, and within 24 3. Name of the person performing the inspection, hours of a rain 4. Indication of whether the measures were operating event ≥ 1.0 inch in properly, 24 hours 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken. At least once per 1. Identification of the discharge outfalls inspected,		i	c) Ground cover is located and installed n accordance with the approved E&SC plan.	construction phase. Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.		(d) Anticipated bypasses and unanticipated bypasses.(e) Noncompliance with the conditions of this permit that may endanger health o environment.			
7 calendar days and within 24 nours of a rain event ≥ 1.0 inch in 24 hours At least once per 7 calendar days and within 24	alendar days 2. Date and time of the inspection, d within 24 3. Name of the person performing the inspection, urs of a rain 4. Evidence of indicators of stormwater pollution such as oil ent ≥ 1.0 inch in sheen, floating or suspended solids or discoloration, hours 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken. least once per If visible sedimentation is found outside site limits, then a record of the following shall be made: alendar days 1. Actions taken to clean up or stabilize the sediment that has left the site limits, urs of a rain 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases. least once per If the stream or wethand has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: urs of a rain 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division hours activity, then a record of the following shall be made: 1. Description, evidence and tate of corrective actions taken, and 2. Records of the required reports to the appropriate Division term 2.10 inch in hours Regional Office per Part III, Section C, Item (2)(a) of this permit. er each phase		d) The maintenance and repair requirements for all E&SC measures have been performed. e) Corrective actions have been taken to E&SC measures.	Complete, date and sign an inspection report. 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	After a permittee b the appropriate Div other requirements	nes and Other Requirements ecomes aware of an occurrence that must be reported, he shall contact rision regional office within the timeframes and in accordance with the s listed below. Occurrences outside normal business hours may also be partment's Environmental Emergency Center personnel at (800)		
but so a rain event ≥ 1.0 inch in 24 hours At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours After each phase of grading			 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. 3. Documentation to be Retained for Three Years 			Occurrence (a) Visible sediment deposition in a stream or wetland (b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	 Reporting Timeframes [After Discovery] and Other Requirements Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. 		
All data used to complete the e-NOI and all inspection records shall be ma of three years after project completion and made available upon request. PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT]	(c) Anticipated bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR	 A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the 		
r close out unle rawals from sec an authority ha nmence until th face withdrawa	ceive runoff from drainage areas of one acre or more shall ass this is infeasible. The circumstances in which it is not fea diment basins shall be allowed only when all of the followin as been provided with documentation of the non-surface w he E&SC plan authority has approved these items, il has been reported as an anticipated bypass in accordance treated with controls to minimize discharges of pollutants f	use outl asible to ng criteria withdraw e with Pa	let structures that withdraw water from th o withdraw water from the surface shall be a have been met: val and the specific time periods or conditi art III, Section C, Item (2)(c) and (d) of this	e rare (for example, times with extended cold weather). ons in which it will occur. The non-surface withdrawal permit,		122.41(m)(3)] (e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(I)(7)]	 quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a case-by-case basis. 		
upland areas of sipation devices	d maintained dewatering tanks, weir tanks, and filtration sy the sites or a properly designed stone pad is used to the ex such as check dams, sediment traps, and riprap are provid e dewatering treatment devices described in Item (c) above	xtent fea led at the	e discharge points of all dewatering device	es, and			NORTH CAROLINA Environmental Quality		
	NCG01 SELF-INS	PE	CTION, RECOR	DKEEPING AND REI	P(ORTING	EFFECTIVE: 04/01/2		

c notification.			
t contains a description of the			
eriod of noncompliance, if the noncompliance has not			
noncompliance is expected to			
to reduce, eliminate, and			
pliance. [40 CFR 122.41(l)(6).			
nent for a written report on a			
NORTH CAROLINA Environmental Quality	V		
ECTIVE: 04/01/1	(

meframes and in accordance with the ide normal business hours may also be gency Center personnel at (800)

portable quantities under Section 311 0 CFR 117.3) or Section 102 of CERCLA

n secondary containment. d materials directly on the ground. EFFECTIVE: 04/01/19