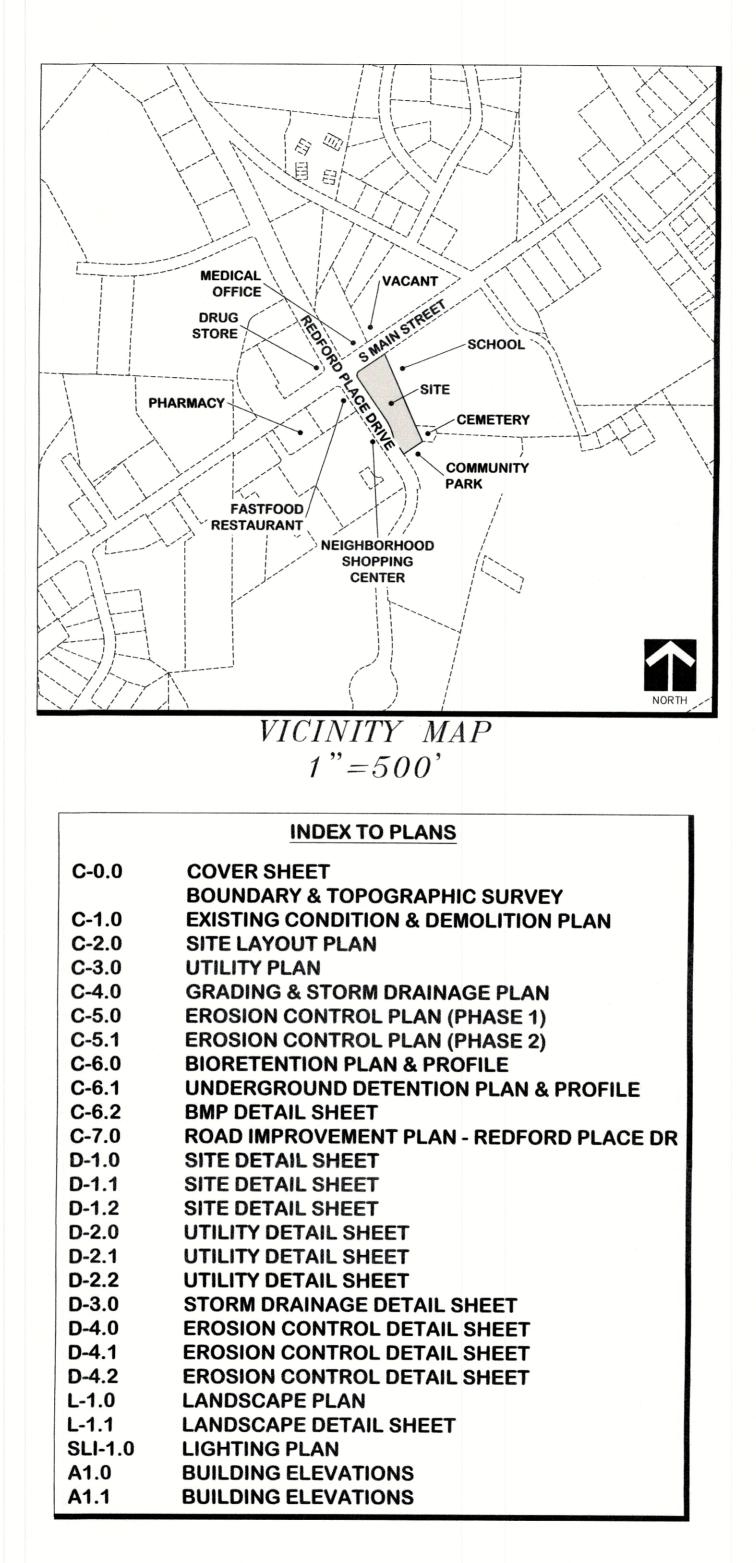
CONSTRUCTION DRAWINGS FOR: 101 & 115 REDFORD PLACE DRIVE ROLESVILLE, NORTH CAROLINA

- OWNER: WALL, MYRTLE R.HEIRS 400 WATKINS FARM RD ROLESVILLE, NC 27571
- DEVELOPER: ROGERS ROAD 3415, LLC (JONATHAN BOES) 1000 CRESCENT GREEN CARY, NC 27518 (O) 919.247.0497
- ENGINEER: PABST DESIGN GROUP, PA 404-B GLENWOOD AVE. RALEIGH, NC 27603 (O) 919.848.4399 (F) 919.848.4395
- ARCHITECT: REDFOOT STUDIO ARCHITECTURE, PC 2515 SAXAPAHAW BETHLEHEM CHURCH RD GRAHAM, NC 27253 (O) 919.931.7134
- SURVEYOR: NEWCOMB LAND SURVEYORS, PLLC 7008 HARPS MILL RD STE 105 RALEIGH, NC 27615 (O) 919.847.1800
- GENERAL CONTRACTOR
 CHAMBLISS & RABIL CONTRACTORS INC.
 (CHRIS DOUGHERTY)
 3614 HAWORTH DR
 RALEIGH, NC 27609
 (O) 919.355.0567
 (C) 252.883.8739
 (F) 252.442.9487

ISSUED FOR CONSTRUCTION

NOTE(s):

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.



MUNICIPAL CONTACT LIST

- PLANNING TOWN OF ROLESVILLE PLANNING DEPARTMENT DANNY JOHNSON - PLANNING DIRECTOR 502 SOUTHTOWN CIRCLE ROLESVILLE, NC 27571 (O) 919.554.6517
- STREETS AND HIGHWAYS NCDOT DIVISION 5, DISTRICT 1 SEAN BRENNAN - SENIOR ASSISTANT DISTRICT ENGINEER 4009 DISTRICT DRIVE RALEIGH, 27607 (O) 919.733.7759 spbrennan@ncdot.gov
- INSPECTIONS -WAKE COUNTY INSPECTIONS & PERMITS DEPARTMENT KENNETH DORMAN - BUILDING INSPECTOR (C) 919.524.4623
 EMERSON PRIVETTE - TRADES INSPECTOR (C) 919.524.4598
 (O) 919.856.6118
- EROSION CONTROL & STORMWATER WAKE COUNTY WAKE COUNTY GOVERNMENT - WATER QUALITY JEEVAN NEUPANE
 P.O. BOX 550
 RALEIGH, NC 27602
 (O) 919.819.8907
 jeevan.neupane@wakegov.com
- WATER AND SEWER CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT TIM BEASLEY - DEPARTMENT REVIEW 222 W. HARGETT STREET RALEIGH, NC 27601 (O) 919.996.2176 timothy.beasley@raleighnc.gov

WATER AND SEWER - TOWN OF ROLESVILLE COLEJENEST & STONE, PA LEWIS HARDEE, PE, PLS - PROJECT MANAGER 131 1/2 S WILMINGTON STREET, SUITE 200 RALEIGH, NC 27601 (O) 919.645.5964 (C) 252.908.5722

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

ENVIRONMENTAL CONSULTANT SIGNATURE

APPROVED

EROSION CONTROL 🗌 S-

STORMWATER MGMT.
S-____

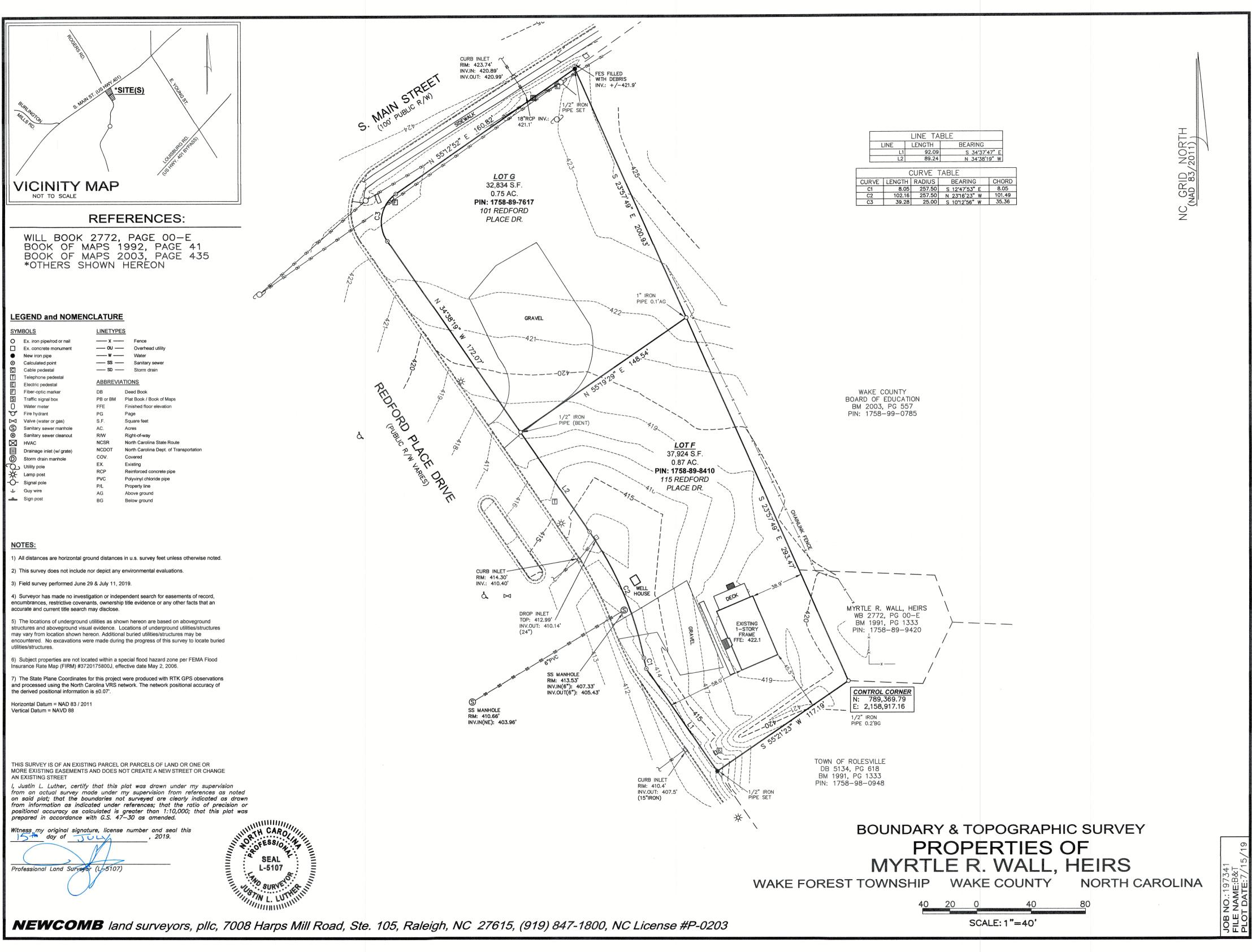
FLOOD STUDY 🗌 S-

DATE_

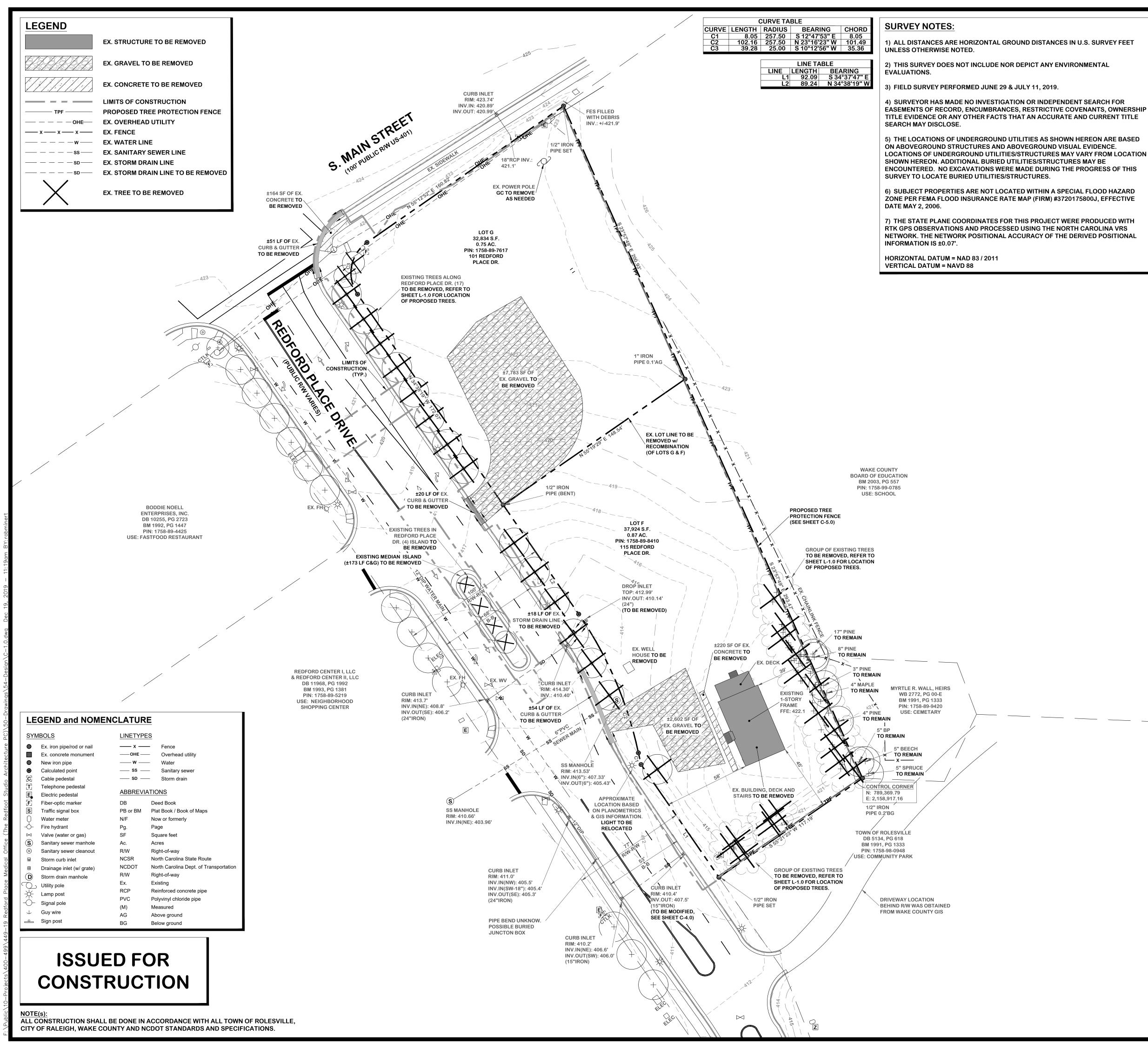
WAKE



	- PASST DESIGN GROUP, PA	Engineering Consulting	Phone: 919 848 4399 Fax: 919 848 4395 NC LICENSE NUMBER: C-3211	
PREPARED FOR : Rogers Road 3415, LLC 1000 Crescent Green	CARY, NORTH CAROLINA 27518 DATE : 7.31.2019	PROJECT ENCINEER:	PROJECT CADD DESIGNER:	PROJECT SURVEYOR: NEWCOMB LAND SURVEYORS
101 & 115 REDEORD DI ACE DRIVE	×	CONSTRUCTION DRAWINGS	COVER SHEFT	
	N N N N N	032573 66. 67. 67. 67. 67. 67. 67. 67. 67. 67.	T. H. Solver	61-02-11
REVISION ISED PER TOR COMMENTS ISED PER TOR COMMENTS 10/	VISED PER TOR COMMENTS 10/2 VISED PER WAKE CO COMMENTS 11/1			
2 10. 2 REV	3 REI 3 REI			

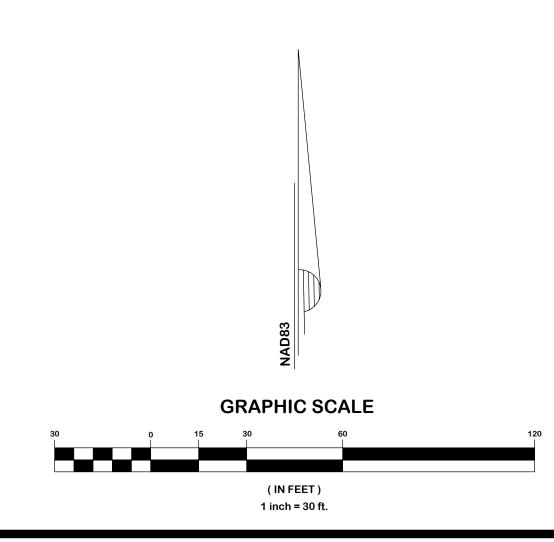


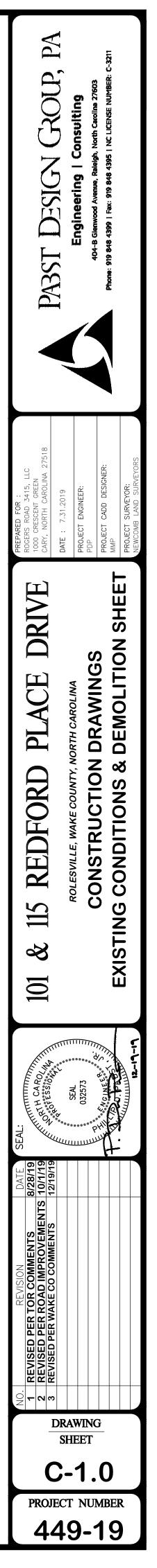


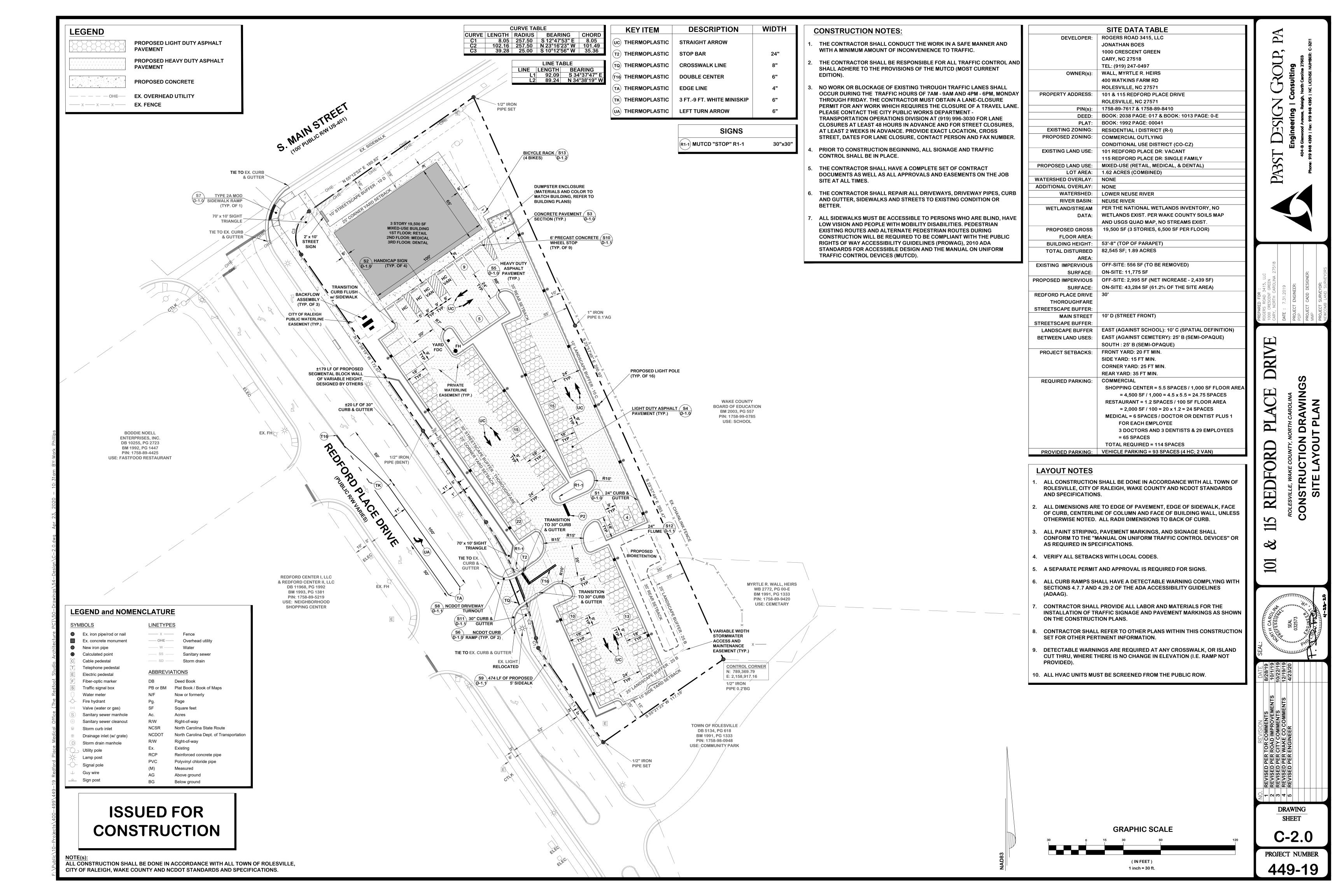


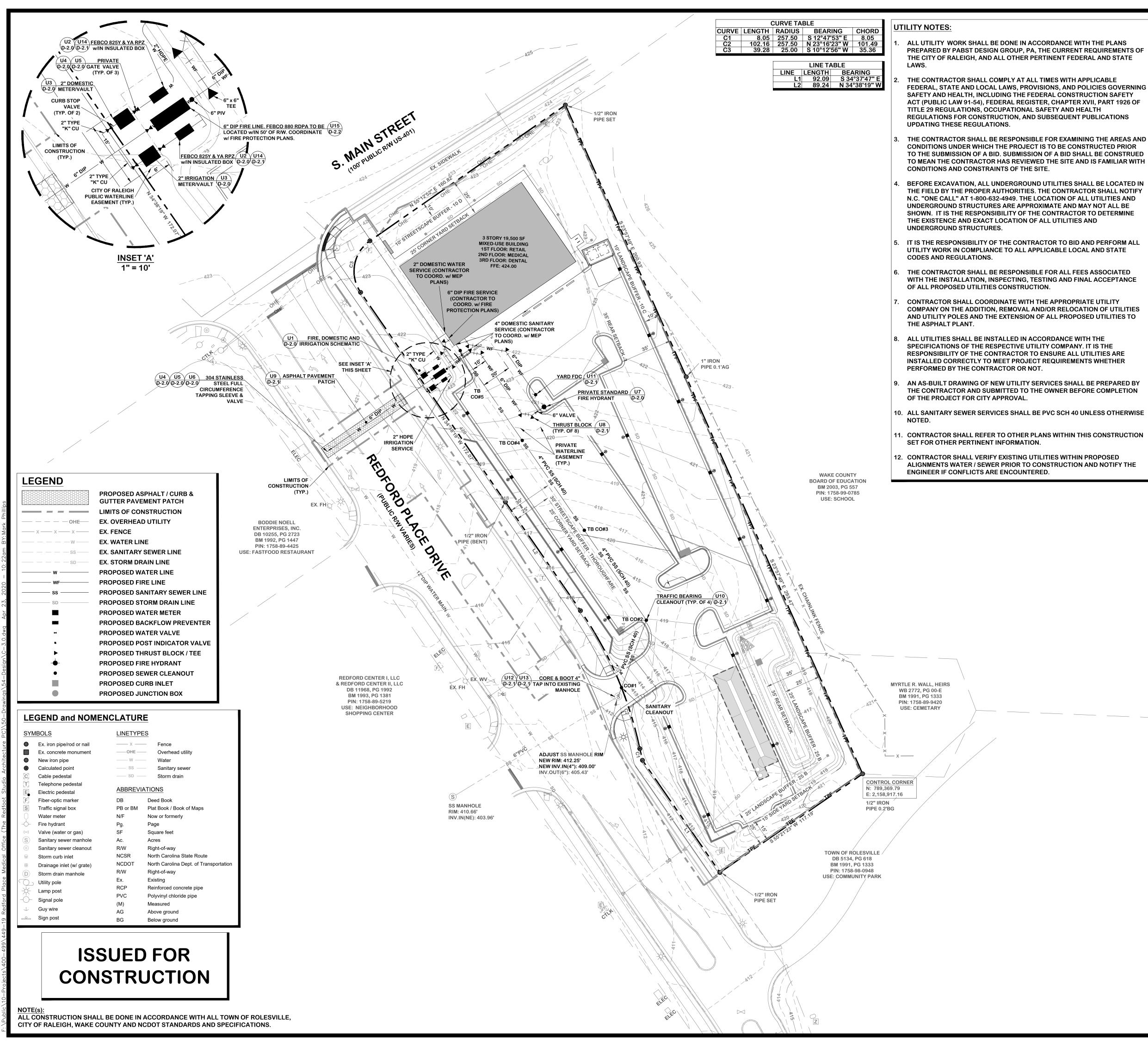
DEMOLITION NOTES

- . THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 2. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- . EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND **MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR** TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY
- 4. ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE RAZED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET, ARCHITECTURAL PLANS AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS, AND FOOTINGS
- . ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS
- 6. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 8. MUNICIPAL AND UTILITY CONTACTS ARE LISTED ON COVER SHEET C-0.0.
- 9. EROSION AND SEDIMENTATION CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE INSTALLED PRIOR TO INITIATION OF DEMOLITION ACTIVITIES.
- 10.ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- 11.CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 12.CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
- 13.CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION ACTIVITIES.
- 14.ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE OWNER, ENGINEER AND ARCHITECT BEFORE REMOVAL FOR FINAL DISPOSITION.
- 15.ALL UTILITIES OR STRUCTURES NOT DESIGNATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- 16.EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALK, ETC. NOT INDICATED FOR REMOVAL. WHICH IS DAMAGED DURING DEMOLITION/CONSTRUCTION. SHALL BE REPAIRED OR REPLACED TO MATCH ORIGINAL CONDITION.
- 17.SALVAGEABLE FILL MATERIALS FROM SITE DEMOLITION DETERMINED TO BE ACCEPTABLE BY AN INDEPENDENT SOILS TESTING LABORATORY SHALL BE UTILIZED FOR FILL MATERIAL WHERE APPROPRIATE.
- 18.ANY NOTE, OR REFERENCE TO ANY ELEMENT, WHICH DOES NOT SPECIFY ACTION BY THE CONTRACTOR SHALL BE CONSTRUED AS INFORMATION ONLY.
- 19.ALL PIPE INSTALLATION, WHEN REQUIRED BY PIPE DEPTHS AND EXCAVATION, SHALL BE PERFORMED WITH THE USE OF TRENCH BOXES. ALL EXCAVATIONS. UTILITY AND GRADING WORK, SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS.
- 20.THE GENERAL CONTRACTOR SHALL PROVIDE ALL SAFETY AND SECURITY FENCING, BARRIERS, PROTECTION MATERIAL AND METHODS AS REQUIRED TO COMPLETE ANY OFF SITE WORK IN A SAFE AND TIMELY MANNER.
- 21.CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- 22.UNLESS OTHERWISE NOTED, ALL EXISTING VEGETATION TO REMAIN AND TO BE UNDISTURBED FOR THE DURATION OF CONSTRUCTION. IF DAMAGES OCCUR TO EXISTING VEGETATION, PLANTS SHALL BE REPLACED IN KIND.
- 23.ANY EXISTING PRIVATE SERVICE NOT TO BE USED (LABELED TO BE REMOVED) SHALL BE ABANDONED PER CoRPUD STANDARDS (PU HANDBOOK, PAGE 67 AND
- 24.ANY EXISTING WELLS AND/OR SEPTIC SYSTEMS SHALL BE ABANDONED IN ACCORDANCE WITH WAKE COUNTY HEALTH DEPARTMENT STANDARDS.





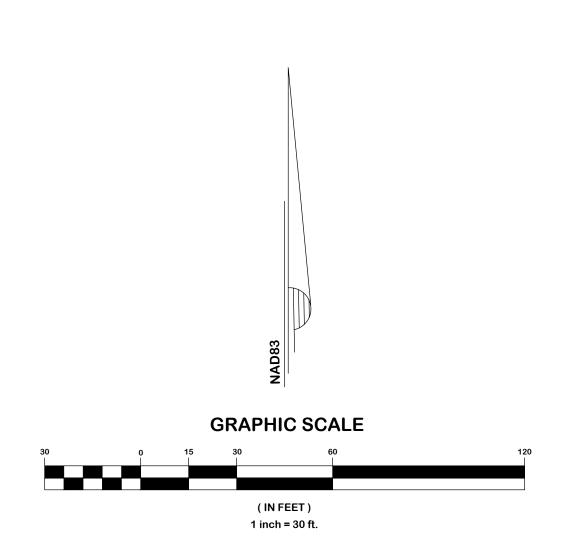


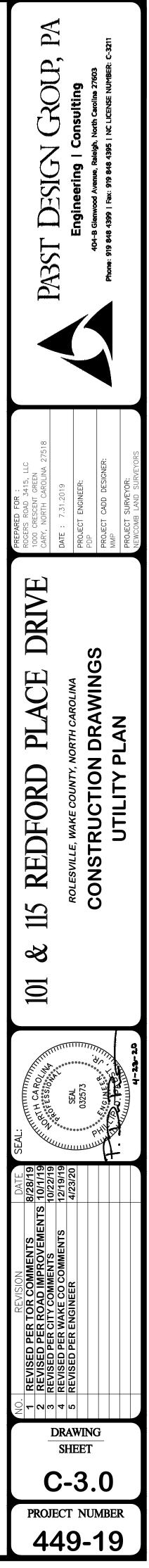


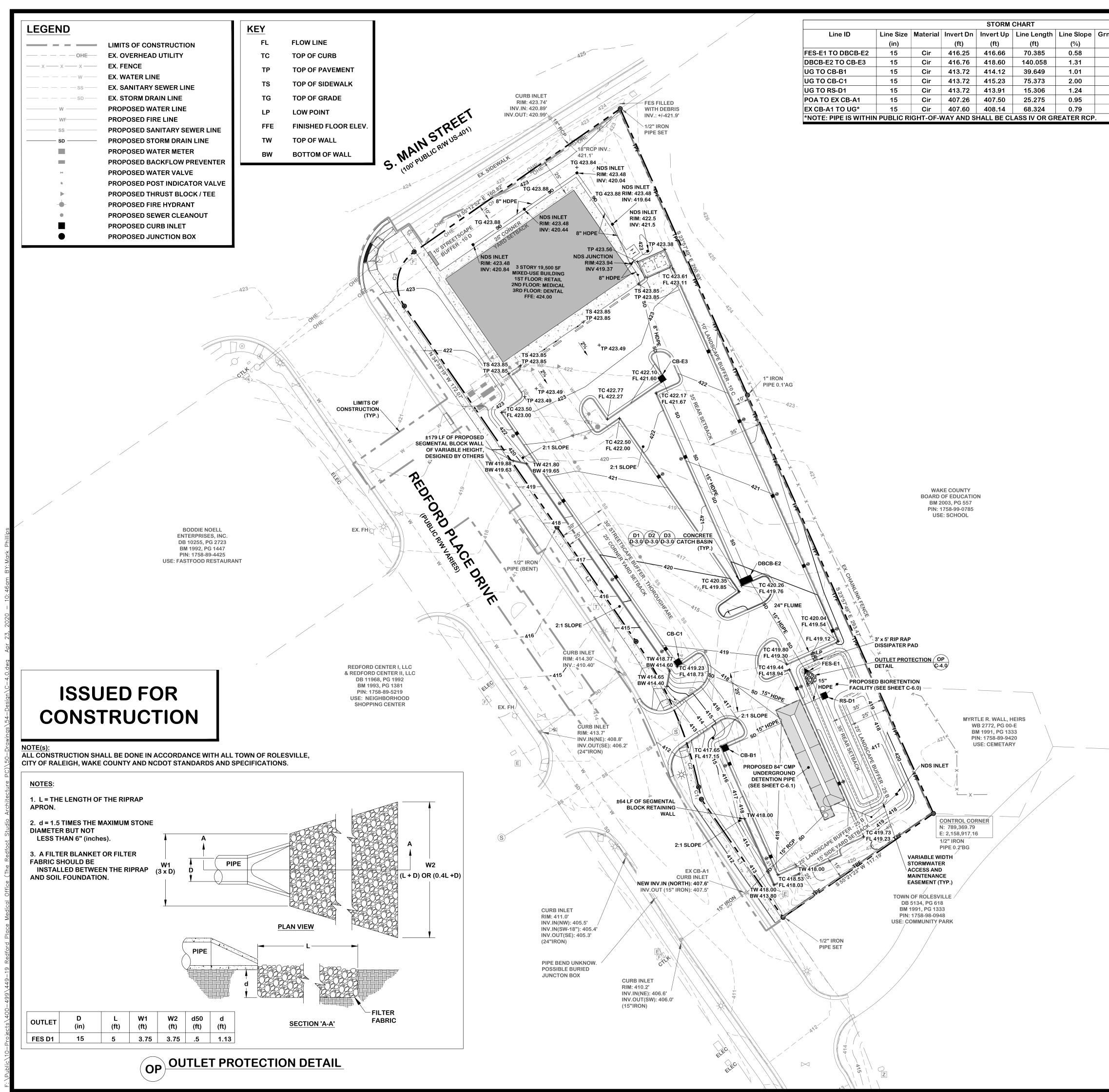
STANDARD CITY OF RALEIGH UTILITY NOTES:

ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)

- UTILITY SEPARATION REQUIREMENTS: a. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY **SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN** IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
- b. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
- c. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST **BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.**
- d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
- e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).
- ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO **EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF** PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE **EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT** OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- **INSTALL 2" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR** WITHIN A 2'x2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
- INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE
- 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- 11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- 12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996 - 2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- 13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S **RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL** PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.







nd/Rim Elev Dn	Grnd/Rim Elev Up
(ft)	(ft)
416.25	419.76
419.76	421.60
418.00	417.16
418.00	418.73
418.00	417.00
410.65	410.65
410.65	418.00

GENERAL NOTES

ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY PABST DESIGN GROUP, PA, THE CURRENT REQUIREMENTS OF THE TOWN OF ROLESVILLE, THE APPLICABLE SECTIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL AND STATE LAWS. \frown

d IC

 \sim

E

DRU

E

D

JRD

REDFC

11

め

101

PER PER ER CI

REAR

DRAWING

SHEET

C-4.0

PROJECT NUMBER

449-19

S L

Юш

WIN VAG

DRAV RAIN

zŌ

ōΣ

RU(& ST

CONS⁻

RA

(7

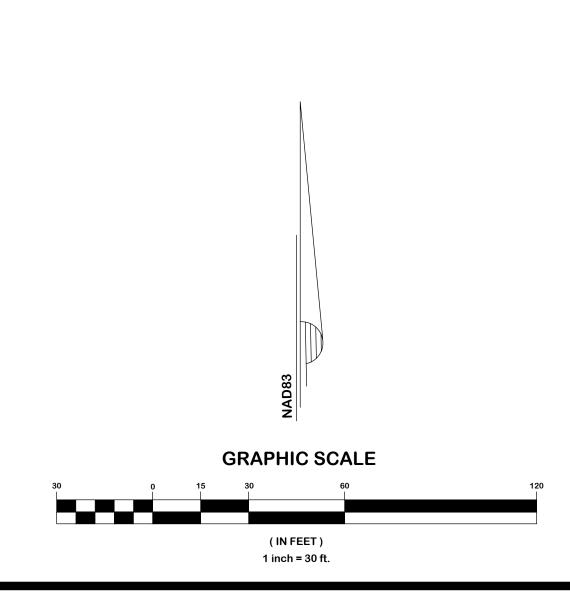
0

- 2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH, INCLUDING THE FEDERAL CONSTRUCTION SAFETY ACT (PUBLIC LAW 91-54), FEDERAL REGISTER, CHAPTER XVII, PART 1926 OF TITLE 29 REGULATIONS, OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, AND SUBSEQUENT PUBLICATIONS UPDATING THESE REGULATIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE.
- 4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY N.C. "ONE CALL" AT 1-800-632-4949. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- 5. ALL EXISTING TREES, VEGETATION, PAVEMENTS, CONCRETE FOUNDATIONS, STRUCTURES AND ORGANIC TOPSOIL SHALL BE STRIPPED AND REMOVED FROM NEW CONSTRUCTION AREAS UNLESS NOTED OTHERWISE.
- 6. ALL AREAS NOT PAVED SHALL BE TOPSOILED, SEEDED, MULCHED OR LANDSCAPED UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS, SITE SPECIFICATIONS OR INSTRUCTED BY THE OWNER.
- 7. CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIALS OFF SITE. THIS RESPONSIBILITY SHALL INCLUDE ALL REQUIRED APPROVALS AND CONDITIONS DICTATED BY THE TOWN OF ROLESVILLE.
- 8. ALL OPEN STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
- 9. CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL NPDES PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 10.IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A LAND-DISTURBANCE PERMIT.
- 11.CONTRACTOR TO PROVIDE SHOP DRAWINGS ON ALL STORM SEWER MANHOLES AND INLETS.
- 12.BOUNDARY AND LOCATION SURVEY PROVIDED BY NEWCOMB LAND SURVEYORS, PLLC, DATED JULY 15, 2019.
- 13.TOPOGRAPHIC SURVEY PROVIDED BY NEWCOMB LAND SURVEYORS, PLLC, DATED JULY 15, 2019.
- 14.CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.

GRADING NOTES

- 1. CONTRACTOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTION INDICATED ON PLANS.
- 2. INITIATE CONSTRUCTION SEQUENCE BEFORE BEGINNING CLEARING AND GRADING ON-SITE OPERATIONS.
- 3. STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED.
- 4. MAXIMUM GRADED SLOPE SHALL NOT EXCEED 2:1, UNLESS OTHERWISE NOTED
- 5. AREAS TO BE GRADED SHALL BE CLEARED OF ALL EXISTING VEGETATION. CONTRACTOR TO PROTECT VEGETATION LOCATED BEYOND GRADING LIMITS.
- 6. COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY, OR PER GEOTECHNICAL RECOMMENDATIONS.
- 7. ALL 2:1 SLOPES TO BE STABILIZED WITH EXCELSIOR DOUBLE NET BLANKET PER MANUFACTURER'S RECOMMENDATIONS. SLOPES TO BE SODDED w/ BERMUDA. CONTACT ACF ENVIRONMENTAL FOR SPECIFICATIONS AT 1-800-448-3636.
- 8. ALL PROPOSED ROADS SHALL NOT EXCEED 12% RUNNING GRADE. ALL PROPOSED ROADS SHALL NOT EXCEED 1/4"/1' CROSS SLOPE WITHIN RIGHT-OF-WAY.

TOTAL DISTURBED AREA = ±1.89Ac.

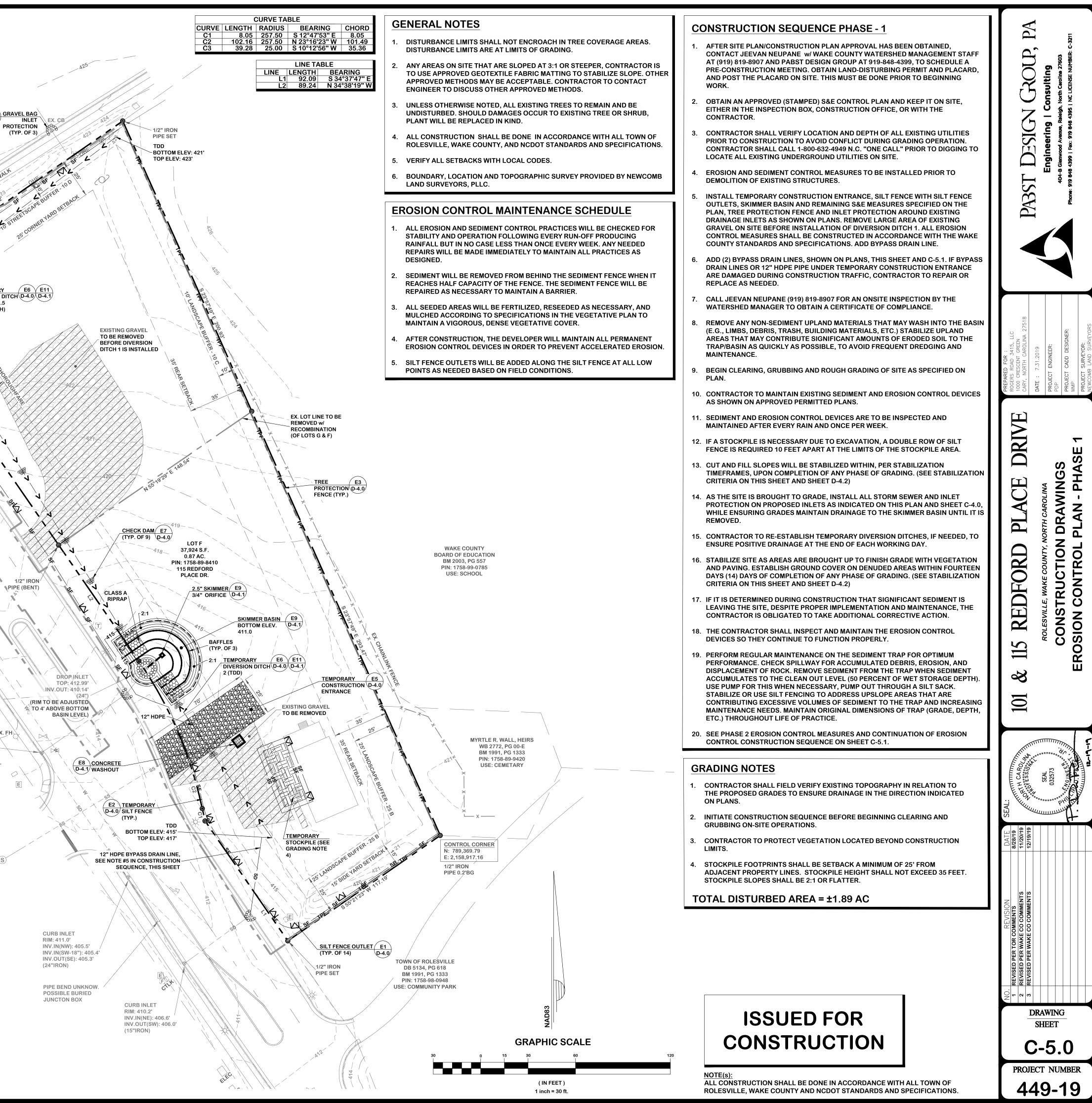


				DIVE				S					SHEAR	
DIVERSIOI DITCH (SWA		E AREA DRAI)	NAGE AREA (ac)	C VALUE	Q (cfs)	AVG SWALE SLOPE %	soi	L TYPE		ROLOGIC _ CLASS	V10 (ft/sec			
DD1	43,1		0.99	0.4	2.846	2.45	- · ·	2/WmC2		B	3.28		0.46	
DD2	13,0	/	0.30	0.4	0.864	3.69	1	/mC2	I	U	2.55	YES	0.32]]
	DRAINAGE AREA (AC)	DENUDED AREA (AC)	- 010/CES	REQ SUR	UIRED FACE	REQUIRED VOL (CF)		TOT. DEPTH)R s		PROVIDED VOLUME	
SKIMMER BASIN	1.29	1.29	2.3		A (SF) 91					2 TO 1		AREA	(CF)	(
DASIN	SKIMMER	ORIFICE	ORIFICE	DF	RAW	2,322 FREEBOAR		4		2101		2,415	3,820	J
	SIZE (IN)	RADIUS (IN) DIAMETER (IN)		N TIME AYS)	ABOVE WAT SURFACE (F								
SKIMMER 1	2.5	0.75	0.75		3.9	1								EX
EROSI		ROL LEO	GEND									_424		
SF TPF		TEMPORARY	SILT FENCE							_//	/		NES	12'52" E
>	->	TEMPORARY	DIVERSION D	ITCH (TC	D)			CONSTRU		TS OF (TYP.)		2	OHC SF	
	MALININGAN VIGAL	TEMPORARY ENTRANCE	CONSTRUCT	ION									SF L	
	1	SILT FENCE (OUTLET						/			N IF	L.	/
## 38338	\$	ROCK CHECH YARD INLET I				_423				Off	SK	S S		TEMP DIVER W/ LIN
889 77 89	30		PROTECTION		_					0	Ŕ	× 1 (V 25. COR	
8 1	_											\$ }		ISCAPE
BLEAC E	- 5759		ASHOUT ARE	-~	Ţ					$\langle \ \rangle$		×.)	(MIN. REFISCAPE DE TEMP
SF	883 	RIP-RAP			/	Ø .	×	/			\times^{\times}	1 1 3		5
		SOIL STOCKF	PILE			CITACO				7-2-1	r (J 30'
									2)	l l 2			er f	レン マン マン マン
LEGEN	<u> </u>	LIMITS OF C	ONSTRUCTIC	N					VVXX		ì	125		-+- \ \
	— — OHE—	EXISTING O	VERHEAD UT	LITY						4	-}-			Sr
	— — ss —	EXISTING S	ANITARY SEW											
	— — SD ——	EXISTING S	FORM DRAINA	AGE					E.		R.		₩ ₩	
							92, PG 758-89- OOD RE	4425	т		Q. (L)		EORD PLACE	
										/	/			R
								/						
							,						~	
												ER I, LLC ER II, LLC		
SELF IN	NSPECTI		CE:							DB 1 BM ⁻	1968, PG 1993, PG 1758-89-	1992 1381		\
	TION OF LAND		SEDIMENT A	ND EROS		<u>NTROL</u>				USE: N	EIGHBO	RHOOD		le l
THE SEDIN		DLLUTION CO				2006 TO REQU INSPECT A PRO								Ľ
AFTER EAC	CH STAGE OF MENTATION C	THE PROJEC	T TO MAKE SUN IS BEING FO	JRE THA	T THE AP D. RULES	PROVED EROS	ION						CURB RIM: 4 ⁻ INV.IN	13.7' (NE): 40
DOCUMEN SELF-INSP	TATION OF THE	IESE INSPEC [®] BRAM IS SEPA	FIONS TOOK	EFFECT (THE WEE	OCTOBE	R 1, 2010. THE F-MONITORING ON ACTIVITIES							INV.OU (24"IR(
FOCUS OF	THE SELF-INS	PECTION RE	PORT IS THE	INSTALL	ATION AI ORDING	ND MAINTENAN TO THE STAGE	CE OF OF							
ACCORDA	NCE WITH NC	GS 113A-54.1	AND 15A NC	AC 4B.01		ER IS ESTABLIS SELF-INSPECTIO		N						
	ORM IS AVAIL				<u>diment-</u> cont	trol/forms								
IF YOU HAY		S OR CANNO	FACCESS TH			CONTACT THE	EMLR							
JI IVE AT	(5,5)101- 3 20													
NPDES Stormwater	Discharge Permit for Cor	struction Activities (NCC	601)	Ν	ICDENR/Di∨isic	on of Energy, Mineral and La	ind Resou	rces						
		STAE	ILIZATION TIME (Effective Aug. 3, 20											
	SITE AREA DESCR	IPTION	STABILIZATI		Тіме	FRAME EXCEPTIONS								
Pe	erimeter dikes, swa	es, ditches, slopes	7 days		None									
H	igh Quality Water (F	QW) Zones	7 days		None									
	opes steeper than (3:1	7 days			10' or less in length a								
	and the second second			1	iot steeper t	han 2:1, 14 days are a	nowed.							

None, except for perimeters and HQW Zones

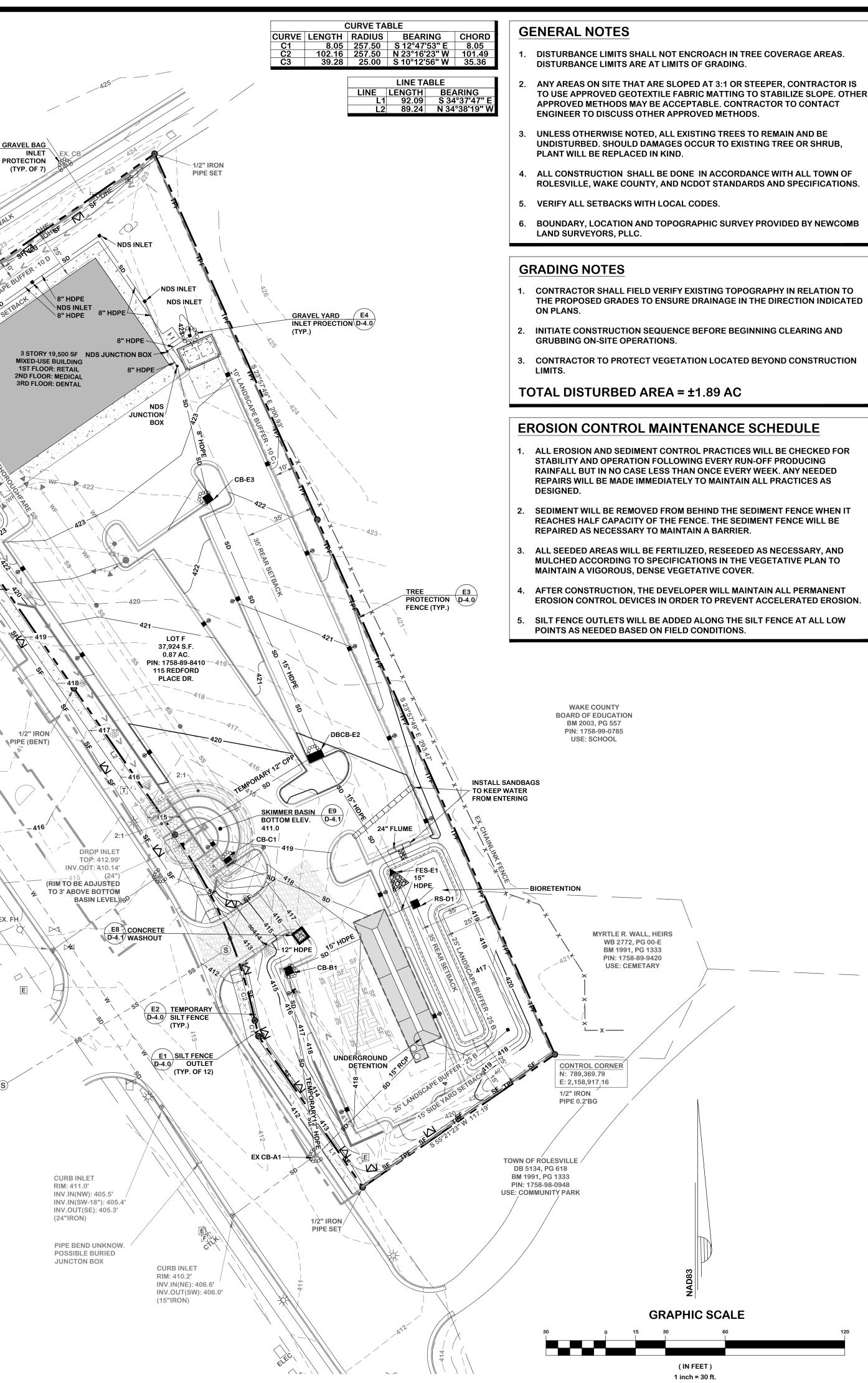
14 days

All other areas with slopes flatter than 4:1



DIVERSION			AINAGE AREA			AVG SWALE			ROLOGIC	V10			
DITCH (SWALE)	(ac)	C VALU	E Q (cfs) 2.846	SLOPE %	SOIL TYPE	SOI	L CLASS B	(ft/see 3.28	c) REQUIR		
DD2	13,09		0.30	0.4	0.864	3.69	WmC2		В	2.55		0.32	
	DRAINAGE	DENUD	010 (CE	RE		ASIN SCHEDU REQUIRED VOL	UME TO	TAL	INTERIO	DR		PROVIDED VOLUME	
SKIMMER	AREA (AC)	AREA (A			RFACE EA (SF)	(CF)	DEPT		SIDE SLO	DPE	AREA	(CF)	
BASIN	1.29	1.29			991 DRAW	2,322 FREEBOAR		1	2 TO 1		2,415	3,820	
	SKIMMER SIZE (IN)	ORIFIC		ER DO	VN TIME DAYS)	ABOVE WAT SURFACE (F	ER						
SKIMMER 1	2.5	0.75	0.75		3.9	1							
EROSIO 		TEMPORA TREE PRO	EGEND RY SILT FENCE TECTION FENC RY DIVERSION	CE					-//		- 424	ONC N55° 12	52 E
			RY CONSTRUC		100)		CONSTR		ITS OF (TYP.)	K		OHE N 55	STRE
			E E OUTLET									S ^F NDS INLET	RNEN
		ROCK CHE							OHE	S	S S		
& & & 	200					423	A		0		423-	V 230: STRE	
8 ⁶ 8		SANDBAG	ET PROTECTIO	IN		/ 		OHE				J HALFRANK	CAP
		CONCRET	E WASHOUT AI	REA				, -		/ /	SR.	J	SET BU
		SOIL STOC	KPILE		/	O it			,			422	H
						O'THE		· · ·	/				30
WF	- — w ——		ED WATER LIN	E	1			\	, , , , , , ,		/ 🔺	50	
	- — SS —— - — SD ——	PROPOS	ED FIRE WATEI ED SANITARY S ED STORM DRA	SEWER		ENTEF DB 10 BM 19 PIN: 1	DDIE NOELL RPRISES, INC. 1255, PG 2723 992, PG 1447 1758-89-4425 OOD RESTAUR/	ANT	EX. F		REU	EORD P	
	CTION SHALL	PROPOSI PROPOSI PROPOSI ED F RUC	ED SANITARY S ED STORM DRA FOR CTION			ENTEF DB 10 BM 19 PIN: ⁷ USE: FASTF	RPRISES, INC. 255, PG 2723 992, PG 1447 1758-89-4425	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N		ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD		BRU
CO OTE(s): ALL CONSTRUCE COLESVILLE AN SELF IN	NST CTION SHALL ND NCDOT ST SPECTIC DN OF LAND	PROPOSI PROPOSI PROPOSI ED F RUC BE DONE TANDARDS ON NOT RESOURC	ED SANITARY S ED STORM DRA FOR CTION			ENTEF DB 10 BM 19 PIN: - USE: FASTF	RPRISES, INC. 255, PG 2723 992, PG 1447 1758-89-4425	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CORD PLACE	DRZ E
COESTILLE AN OTE(S): ALL CONSTRUCT OLESVILLE AN SELF-INSPECTION THE SEDIME THAT PERSON AFTER EACH AND SEDIME DOCUMENTA SELF-INSPECT PROGRAM OF FOCUS OF T EROSION AN THE PROJECT	NST CTION SHALL ND NCDOT ST SPECTIC DN OF LAND CTION PROG ENTATION PROG ENTATION OF TH STAGE OF ENTATION OF TH CTION PROG DF THE NPDE HE SELF-INS ND SEDIMENT CT. AND CON CE WITH NCC RM IS AVAILA	PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI ENDER EDDE EDDE EDDE EDDE EDDE EDDE EDD	ED SANITARY S ED STORM DRA ED STORM DRA ED STORM DRA ED STORM DRA ED STORM DRA ED STORM DRA ED STORM SPECIFIC SAND SPECIFIC FICE: ES SEDIMENT CONTROL ACT R LAND-DISTUI ECT TO MAKE S LAN IS BEING F ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI NTIL PERMANE AL AND 15A NG PDF FORM FROM	AND ERC WAS AM RBING AC SURE TH SOLLOWE EFFECT THE WE FOR COL EINSTAL JRES AC ENT GRO CAC 4B.0 DM	ENDED IN ENDED IN CTIVITIES I AT THE AP D. RULES OCTOBER EKLY SELF NSTRUCTIO LATION AN CORDING UND COVE 131. THE S	ENTEF DB 10 BM 19 PIN: - USE: FASTF USE: FASTF USE: FASTF TROL 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 21, 2010. THE 5-MONITORING ON ACTIVITIES ID MAINTENAN TO THE STAGE SELF-INSPECTION	IRE DJECT ICE OF OF IHED IN	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CURB INI RIM: 413. INV.IN(MI INV.OUT(24"IRON	7' E): 40 (SE): 4
CO OTE(s): ALL CONSTRUCT OLESVILLE AN SELF INSPECT THE SEDIME THAT PERSONAL AFTER EACH AND SEDIME DOCUMENTA SELF-INSPECT PROGRAM OF FOCUS OF T EROSION AN THE PROJECT ACCORDANCE REPORT FOR http://deq.nc.go	NST CTION SHALL ND NCDOT ST SPECTIC ON OF LAND CTION PROG ENTATION PROG ENTATION OF TH STAGE OF ENTATION OF TH CTION PROG OF THE NPDE HE SELF-INS ND SEDIMENT CT. AND CON CE WITH NCC RM IS AVAILA	PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI ENCLOSS PROPOSI PROPOS	ED SANITARY S ED STORM DRA ED STORM SPECIFIC SAND SPECIFIC ES SEDIMENT AND ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DOT ROL MEASU NTIL PERMANE 4.1 AND 15A NO PDF FORM FRO ED FORM FRO ED STORM FRO	AND ERC WAS AM RBING AC SURE THA FOLLOWE EFFECT THE WE FOR COL E INSTAL JRES AC ENT GRO CAC 4B.0 DM s/erosion-s	ENDED IN CTIVITIES I AT THE AP D. RULES OCTOBER EKLY SELF NSTRUCTION LATION AN CORDING UND COVE 131. THE S ediment-cont	ENTEF DB 10 BM 19 PIN: - USE: FASTF USE: FASTF USE: FASTF TROL 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 21, 2010. THE 5-MONITORING ON ACTIVITIES ID MAINTENAN TO THE STAGE SELF-INSPECTION	IRE DJECT ICE OF OF HED IN ON	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CURB IN RIM: 413. INV.IN(N)	7' E): 40 (SE): 4
CO OTE(s): LL CONSTRUC OLESVILLE AN SELF INSPEC THE SEDIME THAT PERSO AFTER EACH AND SEDIME DOCUMENT/ SELF-INSPEC PROGRAM O FOCUS OF T EROSION AN THE PROJEC ACCORDANC REPORT FOR http://deq.nc.go	NST CTION SHALL ND NCDOT ST SPECTION SPECTION DN OF LAND CTION PROG INTATION PROG INTATION OF THE ND SEDIMENT CTION PROG OF THE NPDE HE SELF-INS ND SEDIMENT CT. AND CON CE WITH NCO RM IS AVAILA DV/about/division E QUESTIONS 919)707-9200	PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI ENCLOSSING PROPOSITION PROPOSITION PRO	ED SANITARY S ED STORM DRA ED STORM SPECIFIC SAND SPECIFIC ES SEDIMENT A CONTROL ACT R LAND-DISTUI ECT TO MAKE S LAN IS BEING F ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASU NTIL PERMANE 4.1 AND 15A NO PDF FORM FRO eral-land-resource IOT ACCESS T ISTANCE.	SEWER AINAGE	SION CON ENDED IN CTIVITIES I AT THE AP D. RULES OCTOBER EKLY SELF NSTRUCTION LATION AN CORDING UND COVE 131. THE S ediment-cont	ENTEF DB 10 BM 19 PIN: - USE: FASTF USE: FASTF N OF <u>TROL</u> 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 1, 2010. THE F-MONITORING ON ACTIVITIES ID MAINTENAN TO THE STAGE IS ESTABLIS IS ESTABLIS IS ESTABLIS	IRE DJECT ICE OF OF HED IN ON EMLR	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CURB IN RIM: 413. INV.IN(N)	7' E): 40 (SE): 4
CO OTE(s): ALL CONSTRUCT OLESVILLE AN SELF INSPECT THE SEDIME THAT PERSONAL AFTER EACH AND SEDIME DOCUMENTA SELF-INSPECT PROGRAM OF FOCUS OF T EROSION AN THE PROJECT ACCORDANCE REPORT FOR http://deq.nc.go	NST CTION SHALL ND NCDOT ST SPECTION SPECTION DN OF LAND CTION PROG INTATION PROG INTATION OF THE ND SEDIMENT CTION PROG OF THE NPDE HE SELF-INS ND SEDIMENT CT. AND CON CE WITH NCO RM IS AVAILA DV/about/division E QUESTIONS 919)707-9200	PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI ENCLOSSING PROPOSITION PROPOSITION PRO	ED SANITARY S ED STORM DRA ED STORM SPECIFIC SAND SPECIFIC FICE: ES SEDIMENT CONTROL ACT R LAND-DISTUI ECT TO MAKE S LAN IS BEING F ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASU ATER PERMIT	AND ERC WAS AM RBING AC SURE THA OLLOWE EFFECT THE WE FOR COL INSTAL JRES AC SURE THA OLLOWE EFFECT THE WE FOR COL SURE THA OLLOWE SURE THA OLLOWE EFFECT THE WE FOR COL SURE THA OLLOWE SURE THA SURE THA FOR COL SURE THA SURE THA FOR COL SURE THA SURE TH	SION CON ENDED IN CTIVITIES I AT THE AP D. RULES OCTOBER EKLY SELF NSTRUCTION LATION AN CORDING UND COVE 131. THE S ediment-cont	ENTEF DB 10 BM 19 PIN: - USE: FASTF USE: FASTF N OF TROL 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 1, 2010. THE -MONITORING ON ACTIVITIES ID MAINTENAN TO THE STAGE R IS ESTABLIS EELF-INSPECTION FOLLOWING TO THE STAGE R IS ESTABLIS EELF-INSPECTION	IRE DJECT ICE OF OF HED IN ON EMLR	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CURB IN RIM: 413. INV.IN(N)	7' E): 40 (SE): 4
CO OTE(s): LL CONSTRUC OLESVILLE AN SELF INSPEC THE SEDIME THAT PERSO AFTER EACH AND SEDIME DOCUMENT/ SELF-INSPEC PROGRAM OF FOCUS OF T EROSION AN THE PROJEC ACCORDANC REPORT FOR http://deq.nc.go	NST CTION SHALL ND NCDOT ST SPECTION SPECTION DN OF LAND CTION PROG INTATION PROG INTATION OF THE ND SEDIMENT CTION PROG OF THE NPDE HE SELF-INS ND SEDIMENT CT. AND CON CE WITH NCO RM IS AVAILA DV/about/division E QUESTIONS 919)707-9200	PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI ENDER PROPOSITION PROPOSITION	ED SANITARY S ED STORM DRA ED STORM STOR ED STORM STOR ED STORE STORE ED STORE STORE STORE ED STORE STORE STORE ED STORE STORE STORE ED STORE STORE STORE STORE ED STORE STORE STORE STORE ED STORE STORE STORE STORE STORE ED STORE STORE STORE STORE ED STORE STORE STORE STORE	AND ERC WAS AM RBING AC SURE TH OLLOWE EFFECT THE WE FOR COI EINSTAL JRES AC SURE TH OLLOWE EFFECT THE WE FOR COI EINSTAL JRES AC SURE TH OLLOWE EFFECT THE WE FOR COI EINSTAL JRES AC SURE TH THE WE FOR COI EINSTAL JRES AC SURE TH SURE TH OLLOWE EFFECT THE WE FOR COI EINSTAL JRES AC SURE TH SURE TH SUR	ENDED IN CTIVITIES I AT THE AP D. RULES OCTOBER EKLY SELF NSTRUCTION LATION AN CORDING UND COVE 131. THE S ediment-cont	ENTEF DB 10 BM 19 PIN: - USE: FASTF USE: FASTF N OF TROL 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 1, 2010. THE -MONITORING ON ACTIVITIES ID MAINTENAN TO THE STAGE R IS ESTABLIS EELF-INSPECTION FOLLOWING TO THE STAGE R IS ESTABLIS EELF-INSPECTION	IRE DJECT ICE OF OF HED IN ON EMLR	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CURB IN RIM: 413. INV.IN(N)	7' E): 40 (SE): 4
CO OTE(s): ALL CONSTRUCT OLESVILLE AN SELF-INSPECT THE SEDIME THAT PERSONANT SELF-INSPECT PROGRAM OF FOCUS OF T EROSION ANT THE PROJECT ACCORDANT SELF-INSPECT PROGRAM OF FOCUS OF T EROSION ANT THE PROJECT ACCORDANT REPORT FOR http://deq.nc.go	NST CTION SHALL D NCDOT ST SPECTIC DN OF LAND CTION PROG ENTATION PROG ENTATION OF THE ND SEDIMENT CTION PROG OF THE NPDE HE SELF-INS ND SEDIMENT CT. AND CON CE WITH NCC RM IS AVAILA DV/about/division E QUESTIONS 919)707-9200 charge Permit for Con-	PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI PROPOSI ENDINE ENDINE PROPOSI ENDINE EN	ED SANITARY S ED STORM DRA ED STORM SPECIFIC SAND SPECIFIC FICE: ES SEDIMENT A CONTROL ACT R LAND-DISTUI ECT TO MAKE S LAN IS BEING F ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO STABLIZATION TIM (EFFECTIVE AUG. 3)	SEWER AINAGE	ENDED IN CTIVITIES I AT THE AP D. RULES OCTOBER EKLY SELF NSTRUCTION LATION AN CORDING UND COVE 131. THE S ediment-cont	ENTEF DB 10 BM 19 PIN: - USE: FASTF USE: FASTF N OF TROL 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 3, 2010. THE 5-MONITORING ON ACTIVITIES ID MAINTENAN TO THE STAGE R IS ESTABLIS SELF-INSPECTION FOR A CONTACT THE CONTACT THE	IRE DJECT ICE OF OF HED IN ON EMLR	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CURB IN RIM: 413. INV.IN(N)	7' E): 408 (SE): 4
CO OTE(s): ALL CONSTRUCT SOLESVILLE AN SELF INSPECT THE SEDIME THE SEDIME THAT PERSON AFTER EACH AND SEDIME DOCUMENTA SELF-INSPECT PROGRAM OF FOCUS OF T EROSION AN THE PROJECT ACCORDANG REPORT FOR http://deq.nc.go IF YOU HAVE OFFICE AT (S NPDES Stormwater Dis	TE AREA DESCRIPT	PROPOSI PROPOSITION PR	ED SANITARY S ED STORM DRA ED STORM SPECIFIC SAND SPECIFIC FICE: ES SEDIMENT A CONTROL ACT R LAND-DISTUI ECT TO MAKE S LAN IS BEING F ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO ECTIONS TOOK PARATE FROM VATER PERMIT REPORT IS THE DNTROL MEASI AND 15A NO POF FORM FRO STABLIZATION TIM (EFFECTIVE AUG. 3)	SEWER AINAGE	SION CON ENDED IN CTIVITIES I AT THE AP ED. RULES OCTOBER EKLY SELF NSTRUCTION LATION AN CORDING UND COVE 131. THE S ediment-contr I, PLEASE (NCDENR/Division	ENTEF DB 10 BM 19 PIN: - USE: FASTF USE: FASTF N OF TROL 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 2006 TO REQU NSPECT A PRO PROVED EROS DETAILING TH 3, 2010. THE 5-MONITORING ON ACTIVITIES ID MAINTENAN TO THE STAGE R IS ESTABLIS SELF-INSPECTION FOR A CONTACT THE CONTACT THE	IRE DJECT ICE OF OF HED IN ON EMLR	ANT	REDFOI & REDFO DB 1 BM PIN: USE: N	RD CENT RD CENT 1968, PG 1993, PG 1758-89 NEIGHBC	ER I, LLC TER II, LLC 5 1992 5 1381 -5219 ORHOOD	CURB IN RIM: 413. INV.IN(N)	7' E): 40 (SE):

If slopes are 10' or less in length and are 7 days Slopes steeper than 3:1 not steeper than 2:1, 14 days are allowed. Slopes 3:1 or flatter 7 days for slopes greater than 50' in length. 14 days All other areas with slopes flatter than 4:1 14 days None, except for perimeters and HQW Zones



CONSTRUCTION SEQUENCE PHASE 2

- REFER TO SHEET C-5.0 IN THIS PLAN SET FOR PHASE 1 E&S OPERATIONS PRIOR TO BEGINNING THIS CONSTRUCTION SEQUENCE AND INSTALLATION OF MEASURES ON THIS PLAN SHEET.
- DURING CONTINUED CONSTRUCTION, ADJUST THE TEMPORARY DIVERSION DITCHES AND GRADES AS NECESSARY, STAY AS CLOSE TO THE ORIGINAL LOCATION AS POSSIBLE, TO MAINTAIN POSITIVE DRAINAGE AND CROSS SECTION PER THE DETAIL E6 ON SHEET D-4.0.
- INSTALL TEMPORARY 12" PIPE FROM DBCB-E2 TO THE SKIMMER BASIN AND CB-B1 TO EX CB-A1. INSTALL PLUG IN PIPE AT STRUCTURES DBCB-E2 AND CB-B1 PLUGS SHALL REMAIN INSTALLED UNTIL PDG APPROVES THE SCM DEVICE AND ALL STORM LINES ARE FREE OF SILT/TRASH.
- CONTINUE BRINGING THE SITE TO FINAL GRADES AND INSTALLING UTILITIES AS NECESSARY. SKIMMER BASIN MUST REMAIN IN OPERATION UNTIL SUCH TIME THAT THE SITE UPSTREAM OF THE DEVICE IS STABILIZED. ONCE ENOUGH OF TH SITE IS STABILIZED AND THE STORM CONVEYANCE HAS BEEN INSTALLED, BEGIN THE BASIN REMOVAL SEQUENCE PER THE NOTES ON THIS SHEET.
- ONCE BASIN IS REMOVED CONTINUE GRADING OPERATION PROGRESSING TOWARD DESIGN GRADE.
- CUT AND FILL SLOPES WILL BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING. (SEE STABILIZATION CRITERIA ON THIS SHEET AND D-4.2).
- INSTALL CURB AND GUTTER, CABC STONE, PAVEMENT AND SIDEWALK IN ALL HARDSCAPE AREAS.
- CONTACT PDG TO INSPECT SCM DEVICES FOR ACCEPTANCE. ONCE APPROVED UNPLUG STRUCTURES DBCB-E2 AND CB-B1.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION AND PAVING. ESTABLISH GROUND COVER ON DENUDED AREAS WITHIN FOURTEEN DAYS (14) DAYS OF COMPLETION OF PROJECT.
- 10. REMOVE BYPASS DRAIN LINES FROM CB-B1 TO EX CB-A1 AND FROM DBCB-E2 TO SKIMMER BASIN. FOLLOWING THE REMOVAL OF BYPASS DRAIN LINE FROM CB-B1 TO EX CB-A1, COMPLETE DRIVEWAY CONSTRUCTION.
- 11. IF IT IS DETERMINED DURING CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE, DESPITE PROPER IMPLEMENTATION AND MAINTENANCE, THE CONTRACTOR IS OBLIGATED TO TAKE ADDITIONAL CORRECTIVE ACTION.
- 12. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THE EROSION CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY.
- 13. FINE GRADE THE FINAL PORTION OF THE SITE. SEED OR OTHERWISE STABILIZE ANY RESULTING BARE AREAS.
- 14. MAINTAIN ALL REMAINING SOIL AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 15. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- 16. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS. SHOULD NOW BE INSTALLED.
- 17. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY JEEVAN NEUPANE WITH WAKE COUNTY WATERSHED MANAGEMENT STAFF AT (919) 819-8907. IF SITE IS APPROVED, OBTAIN A CERTIFICATE OF COMPLETION.

EROSION CONTROL MAINTENANCE SCHEDULE

- 1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUN-OFF PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT REACHES HALF CAPACITY OF THE FENCE. THE SEDIMENT FENCE WILL BE **REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.**
- 3. ALL SEEDED ARES WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- 4. AFTER CONSTRUCTION, THE DEVELOPER WILL MAINTAIN ALL PERMANENT EROSION CONTROL DEVICES IN ORDER TO PREVENT ACCELERATED EROSION.
- 5. SILT FENCE OUTLETS WILL BE ADDED ALONG THE SILT FENCE AT ALL LOW POINTS AS NEEDED BASED ON FIELD CONDITIONS.

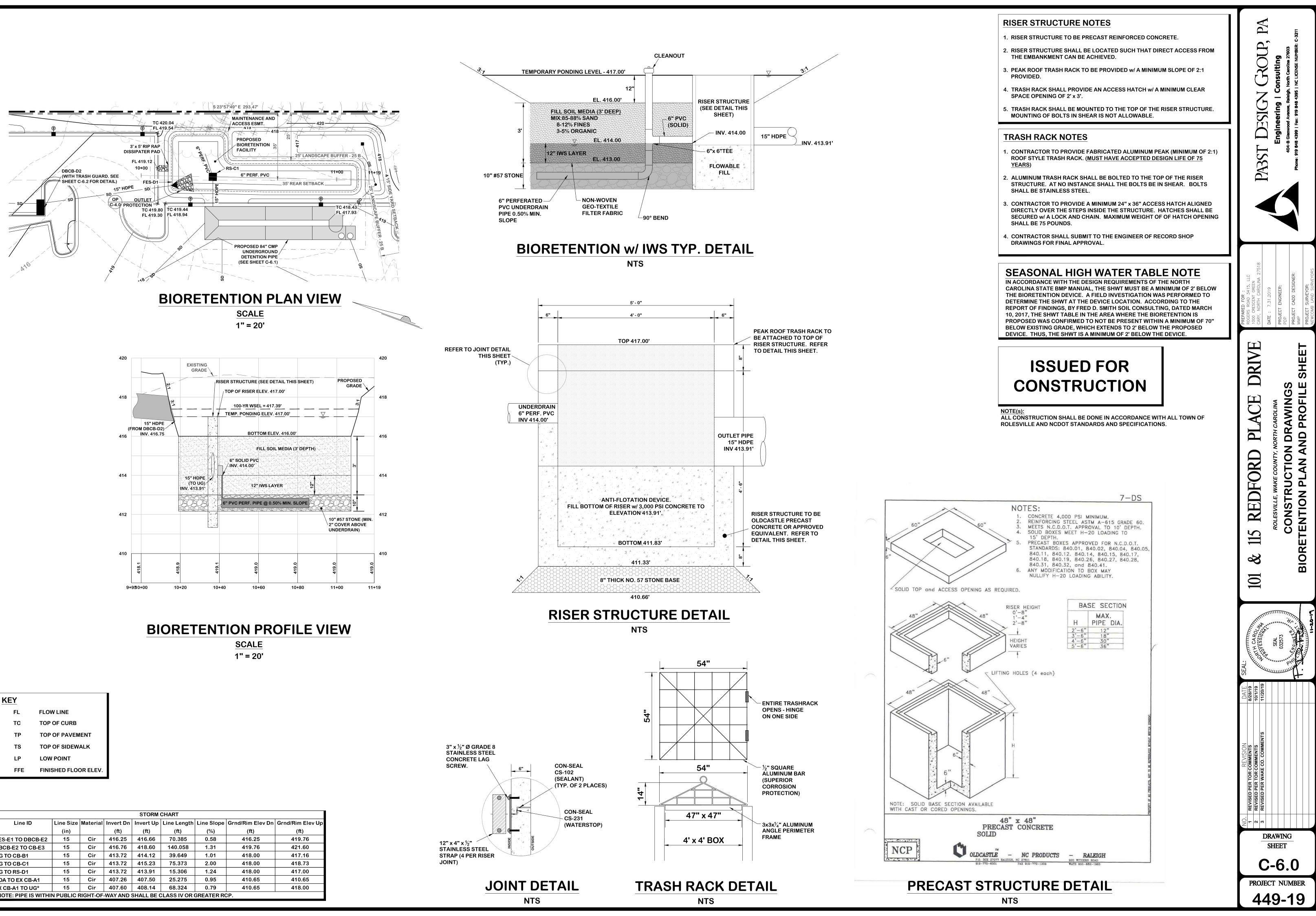
BASIN REMOVAL SEQUENCE

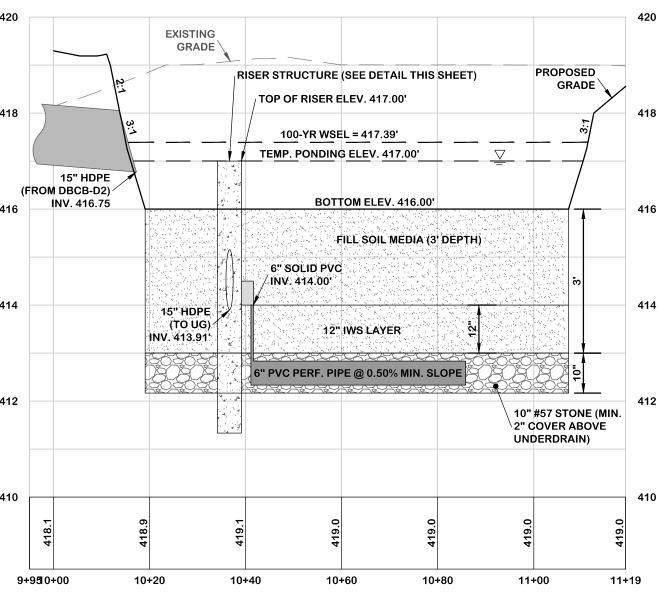
- . SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTAN TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
- . REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME FINE GRADE AREA IN PREPARATION FOR SEEDING.
- 3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
- 4. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
- 5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.



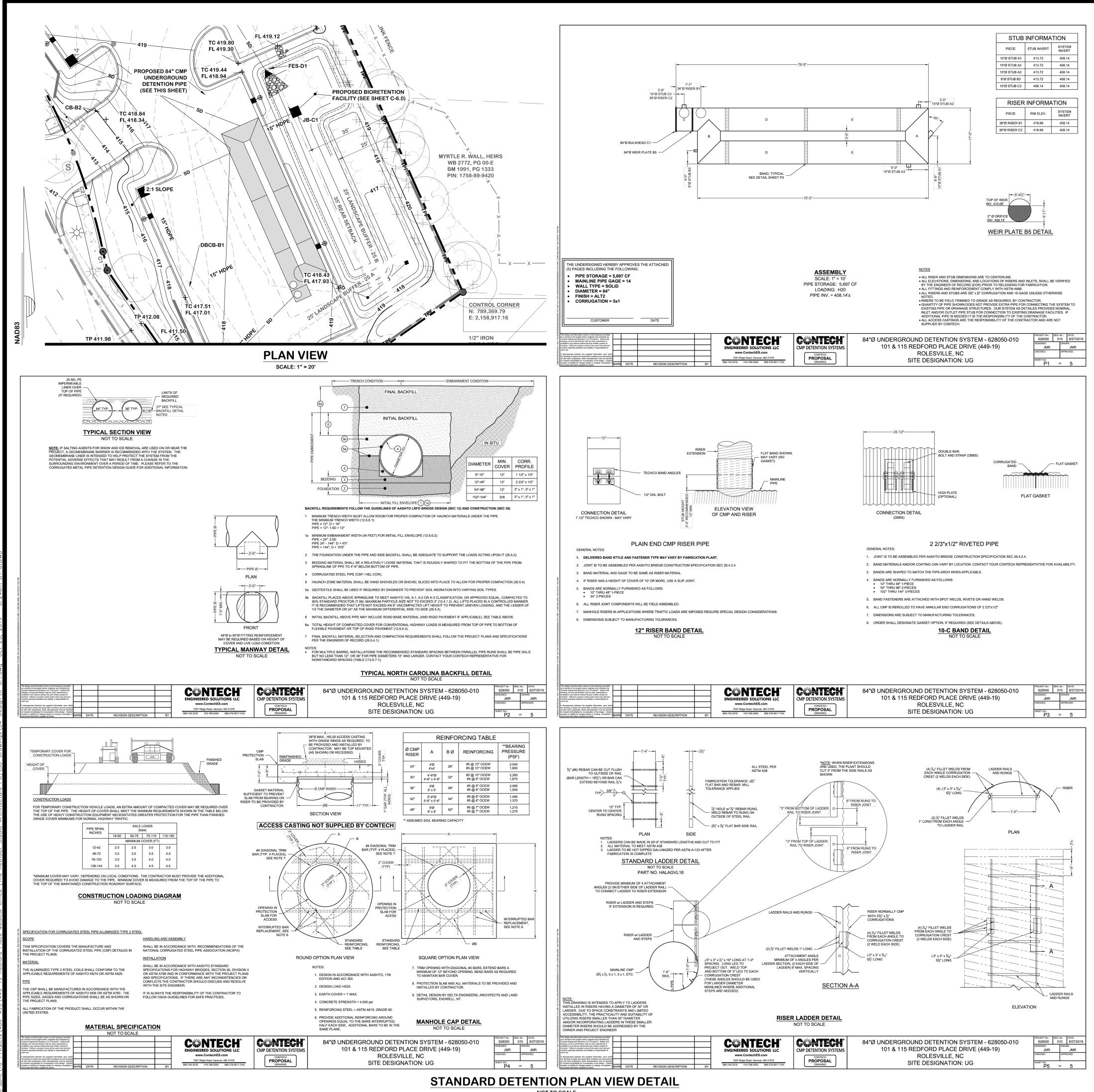
449-19





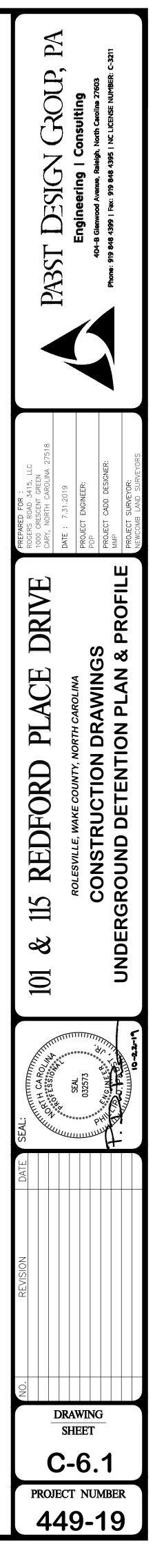
KEY	
FL	FLOW LINE
тс	TOP OF CURB
ТР	TOP OF PAVEMENT
TS	TOP OF SIDEWALK
LP	LOW POINT
FFE	FINISHED FLOOR ELEV

				STORM	CHART			
Line ID	Line Size	Material	Invert Dn	Invert Up	Line Length	Line Slope	Grnd/Rim Elev Dn	Grnd/Rim Elev Up
	(in)		(ft)	(ft)	(ft)	(%)	(ft)	(ft)
FES-E1 TO DBCB-E2	15	Cir	416.25	416.66	70.385	0.58	416.25	419.76
DBCB-E2 TO CB-E3	15	Cir	416.76	418.60	140.058	1.31	419.76	421.60
UG TO CB-B1	15	Cir	413.72	414.12	39.649	1.01	418.00	417.16
UG TO CB-C1	15	Cir	413.72	415.23	75.373	2.00	418.00	418.73
UG TO RS-D1	15	Cir	413.72	413.91	15.306	1.24	418.00	417.00
POA TO EX CB-A1	15	Cir	407.26	407.50	25.275	0.95	410.65	410.65
EX CB-A1 TO UG*	15	Cir	407.60	408.14	68.324	0.79	410.65	418.00
*NOTE: PIPE IS WITHI	N PUBLIC F	RIGHT-OF	-WAY AND	SHALL BE (CLASS IV OR	GREATER RO	CP.	



FES-E1 DBCB-E UG TO C UG TO C UG TO R ΡΟΑ ΤΟ EX CB-A

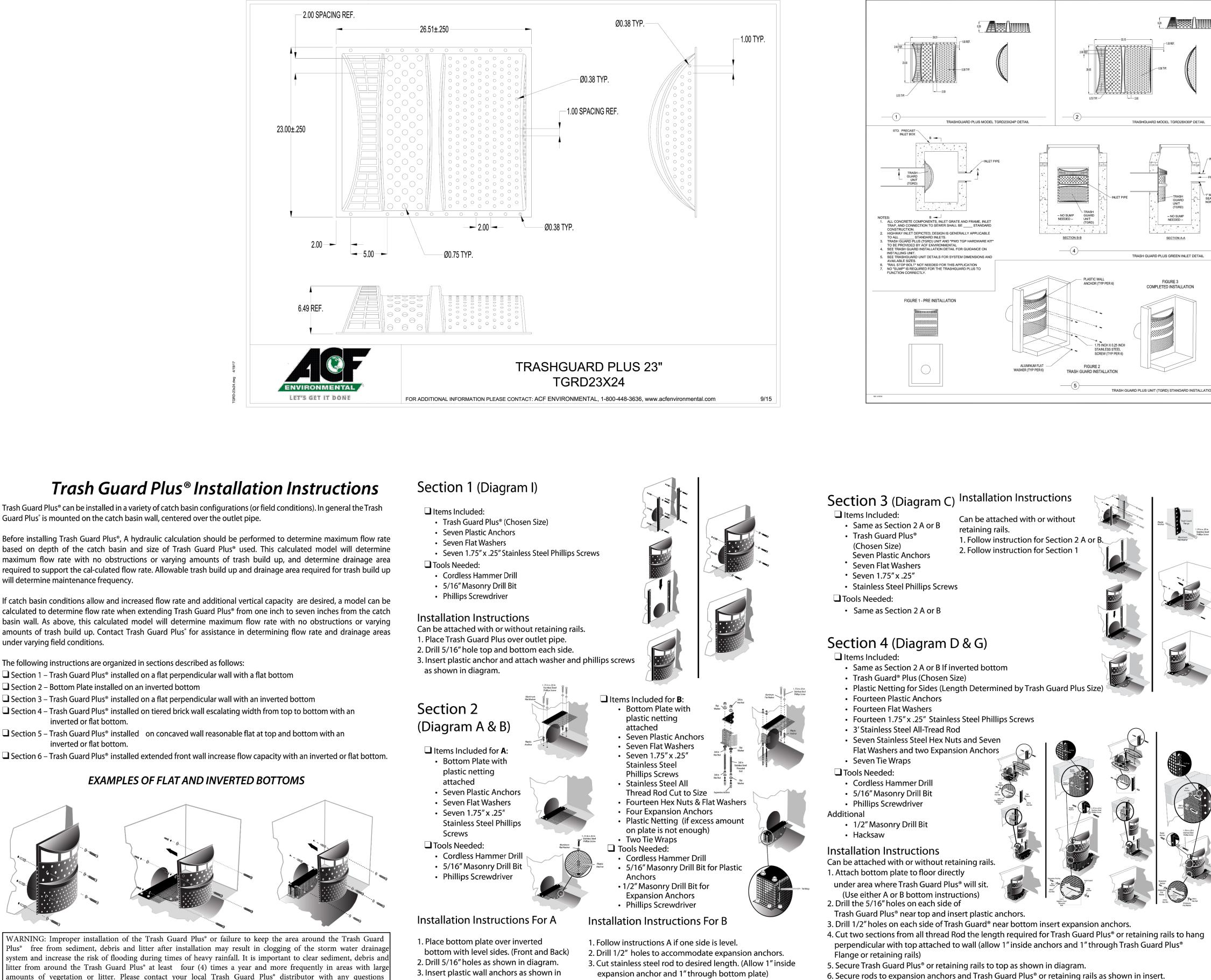
*NOTE:



ISSUED FOR CONSTRUCTION

NOTE(s): ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS

				STORM	CHART			
Line ID	Line Size	Material	Invert Dn	Invert Up	Line Length	Line Slope	Grnd/Rim Elev Dn	Grnd/Rim Elev Up
	(in)		(ft)	(ft)	(ft)	(%)	(ft)	(ft)
TO DBCB-E2	15	Cir	416.25	416.66	70.385	0.58	416.25	419.76
E2 TO CB-E3	15	Cir	416.76	418.60	140.058	1.31	419.76	421.60
CB-B1	15	Cir	413.72	414.12	39.649	1.01	418.00	417.16
CB-C1	15	Cir	413.72	415.23	75.373	2.00	418.00	418.73
RS-D1	15	Cir	413.72	413.91	15.306	1.24	418.00	417.00
D EX CB-A1	15	Cir	407.26	407.50	25.275	0.95	410.65	410.65
A1 TO UG*	15	Cir	407.60	408.14	68.324	0.79	410.65	418.00
PIPE IS WITHIN	PUBLIC RI	GHT-OF-V	VAY AND S	HALL BE CL	ASS IV OR GF	REATER RCP	•	



Trash Guard Plus® Installation Instructions

Trash Guard Plus® can be installed in a variety of catch basin configurations (or field conditions). In general the Trash Guard Plus[®] is mounted on the catch basin wall, centered over the outlet pipe.

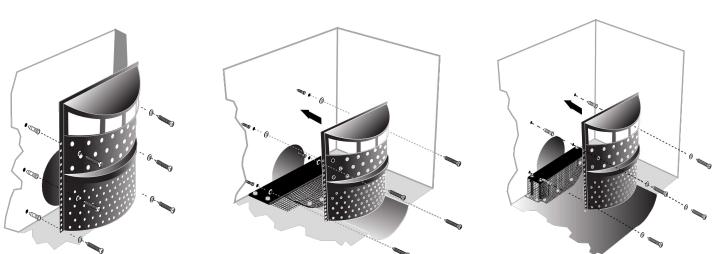
Before installing Trash Guard Plus[®], A hydraulic calculation should be performed to determine maximum flow rate based on depth of the catch basin and size of Trash Guard Plus® used. This calculated model will determine maximum flow rate with no obstructions or varying amounts of trash build up, and determine drainage area required to support the cal-culated flow rate. Allowable trash build up and drainage area required for trash build up will determine maintenance frequency.

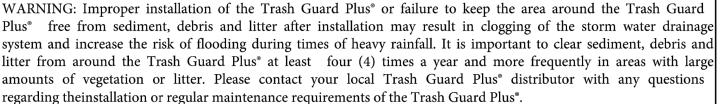
If catch basin conditions allow and increased flow rate and additional vertical capacity are desired, a model can be calculated to determine flow rate when extending Trash Guard Plus[®] from one inch to seven inches from the catch basin wall. As above, this calculated model will determine maximum flow rate with no obstructions or varying amounts of trash build up. Contact Trash Guard Plus[®] for assistance in determining flow rate and drainage areas under varying field conditions.

The following instructions are organized in sections described as follows:

- Section 1 Trash Guard Plus[®] installed on a flat perpendicular wall with a flat bottom
- Section 2 Bottom Plate installed on an inverted bottom
- Section 3 Trash Guard Plus[®] installed on a flat perpendicular wall with an inverted bottom
- Section 4 Trash Guard Plus[®] installed on tiered brick wall escalating width from top to bottom with an inverted or flat bottom.
- Section 5 Trash Guard Plus[®] installed on concaved wall reasonable flat at top and bottom with an inverted or flat bottom.

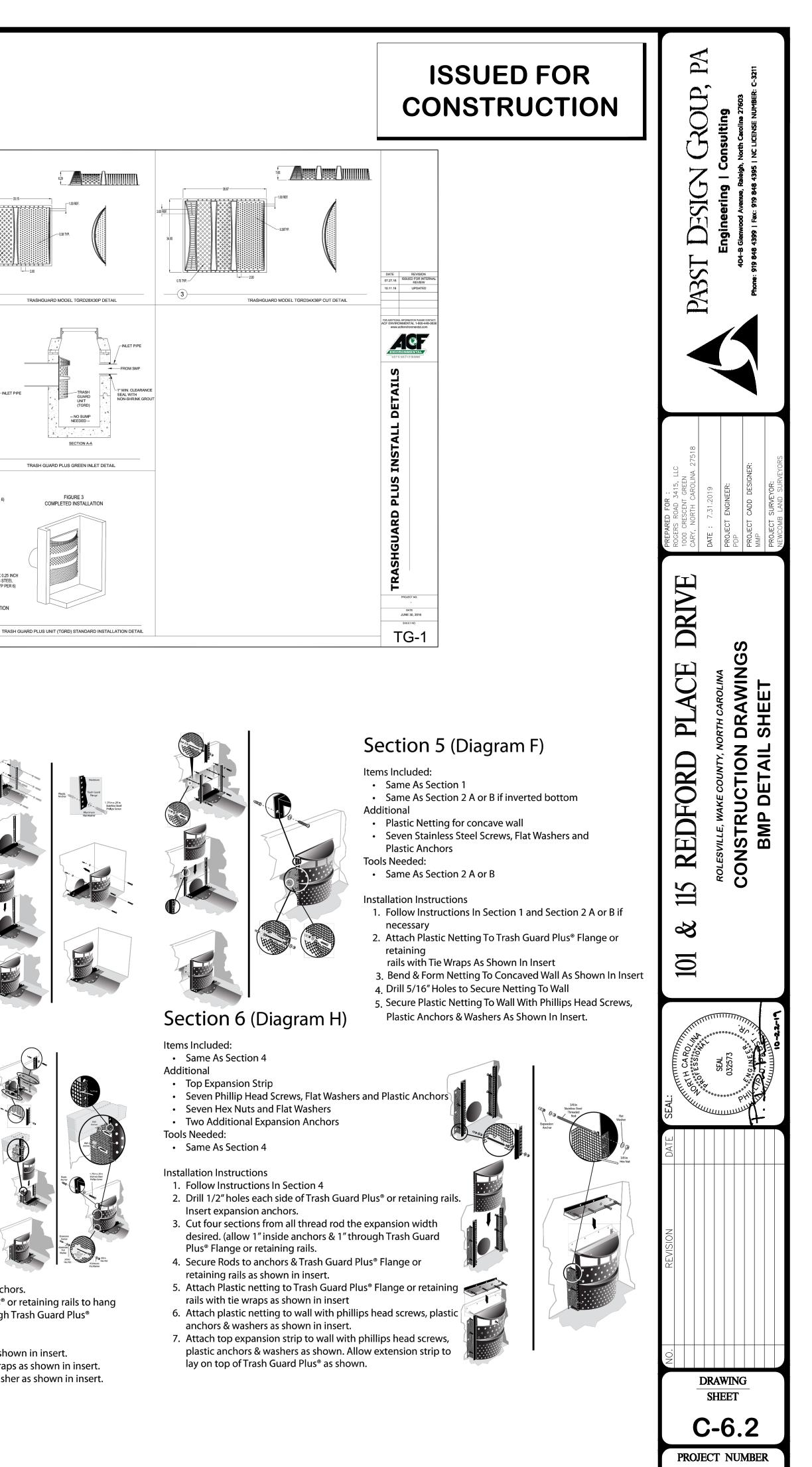
EXAMPLES OF FLAT AND INVERTED BOTTOMS



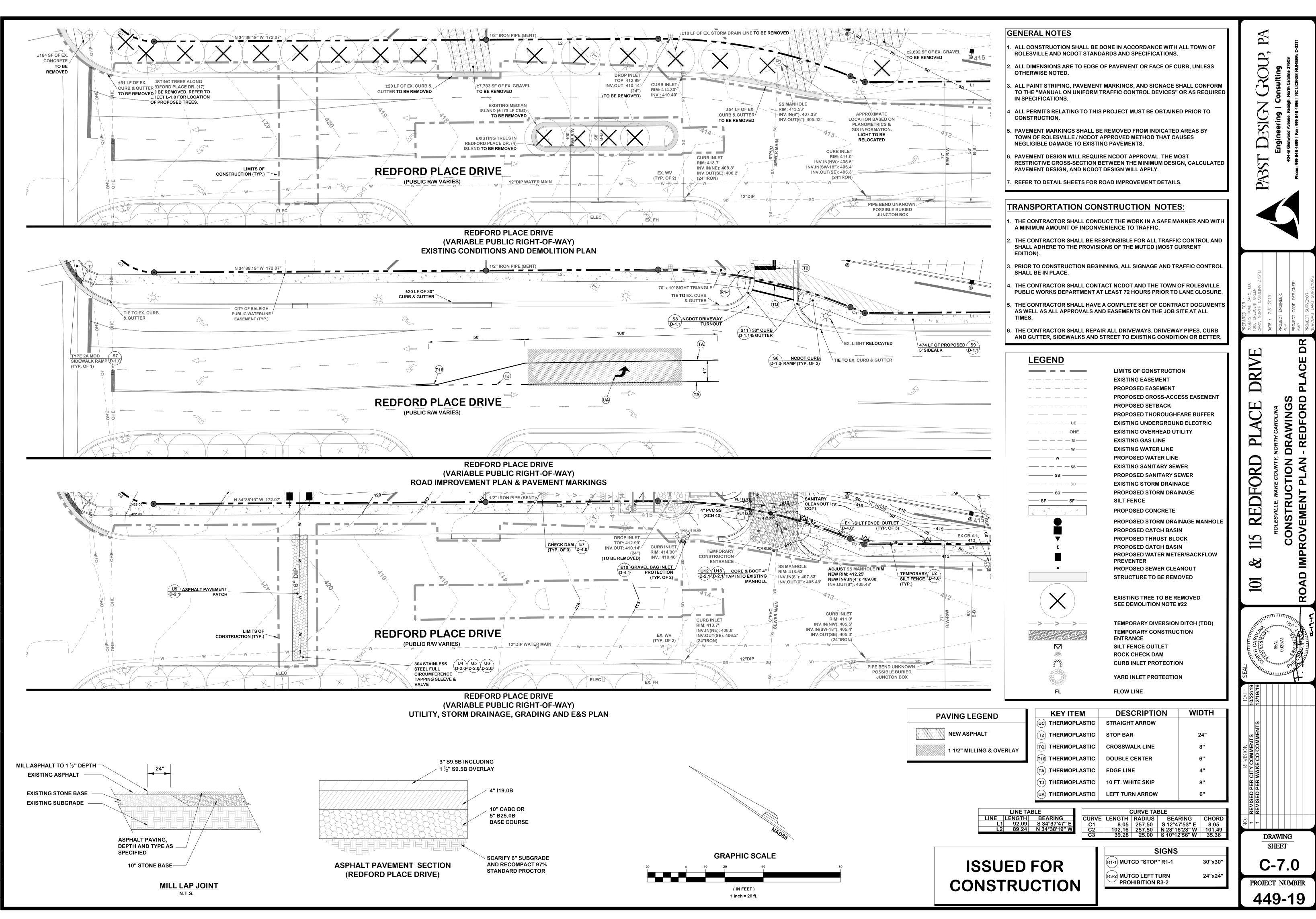


- 3. Insert plastic wall anchors as shown in diagram A. 4. Attach washers and hex nuts as shown in diagram.
- 4. Attach with washer and screw as shown.

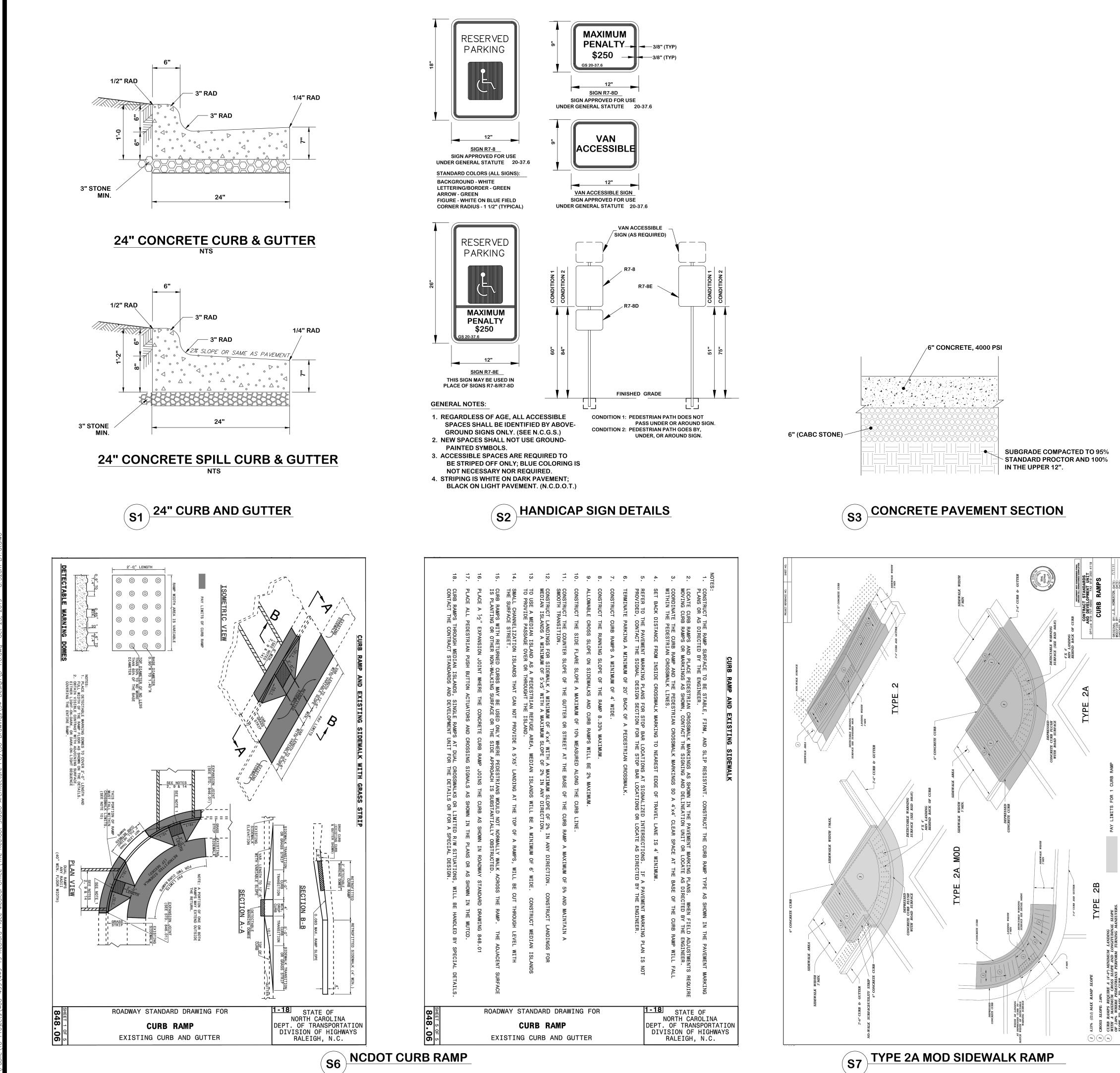
- 5. Attach netting as shown in diagram.
- 7. Attach plastic netting to Trash Guard Plus[®] flange or retaining rails with tie wraps as shown in insert.
 - 8. Cut mesh from top tier of bricks and secure with plastic anchor, screw and washer as shown in insert. 9. Continue process until netting is attached to wall top and bottom.

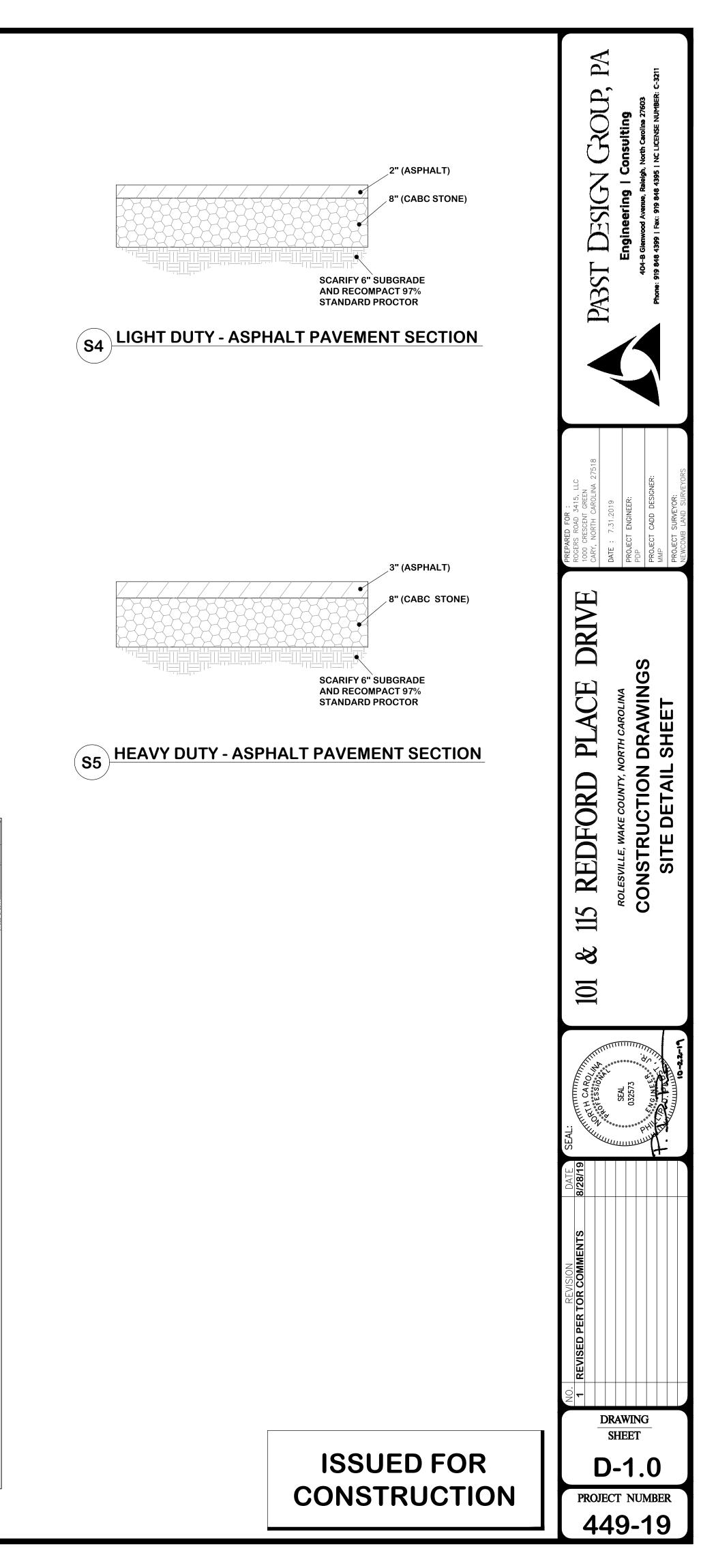


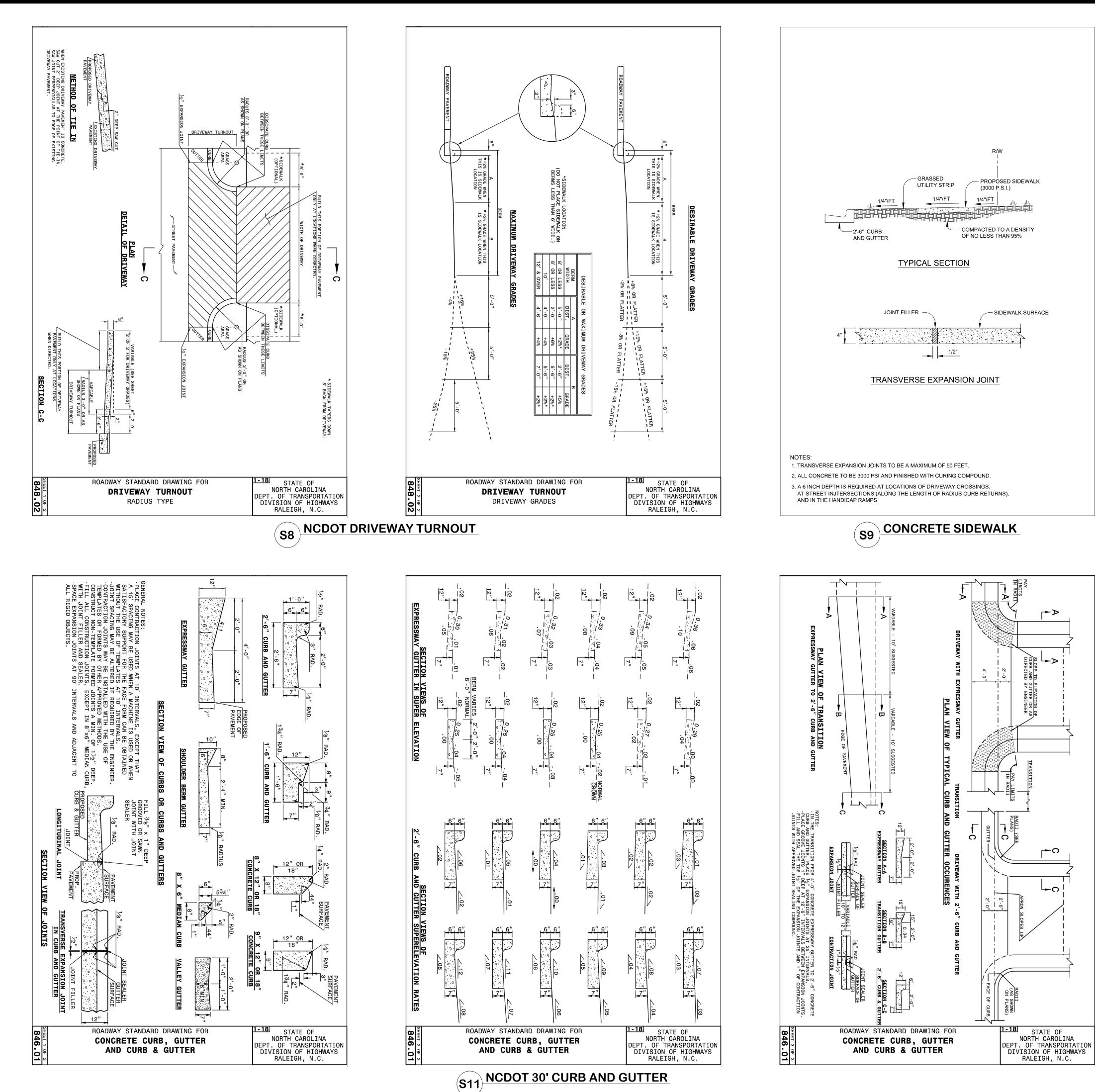
449-19



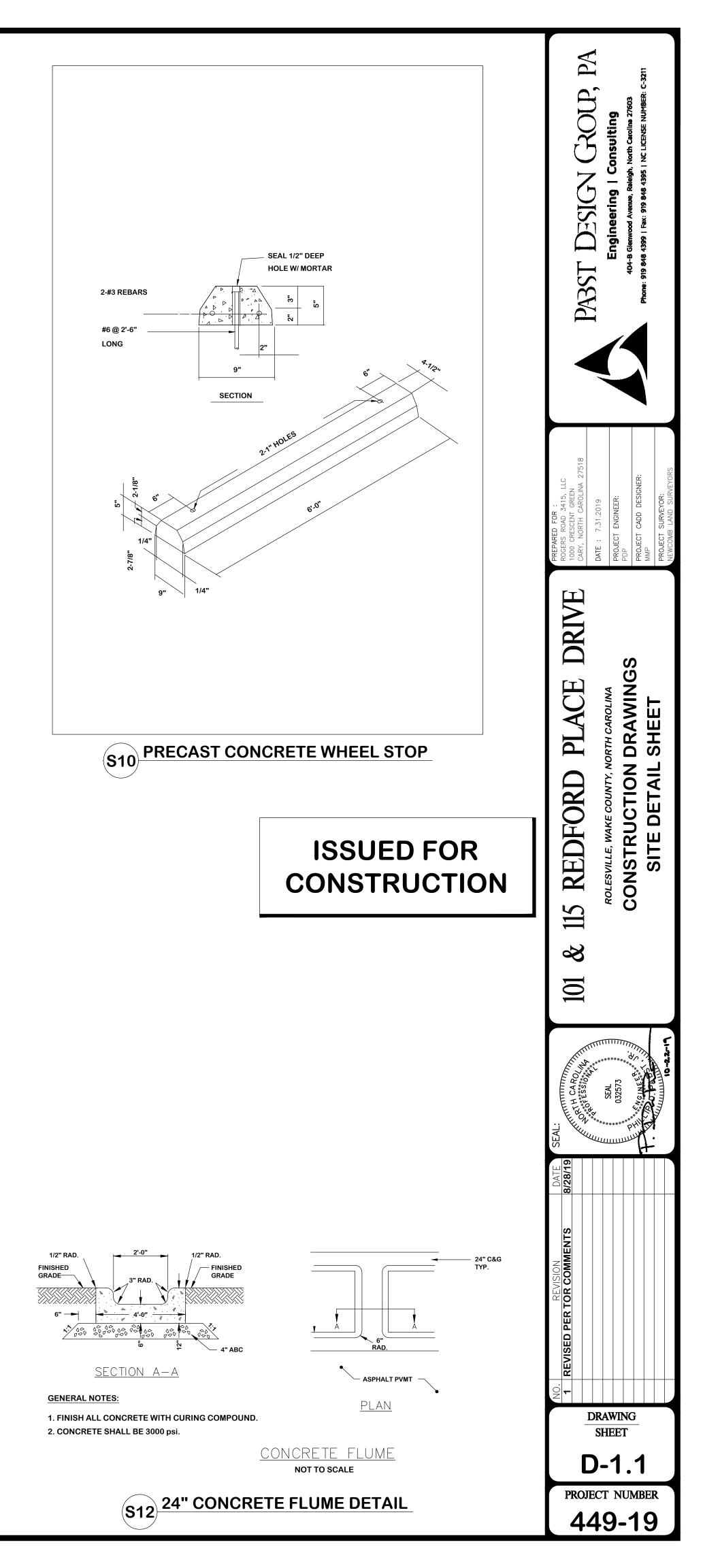
blic/10-Projects/400-499/449-19 Redford Place Medical Office (The Redfoot Studio Architecture PC)/50-Drawings/54-Design/C-7.0.dwg Dec 31, 2019 - 2:56pm BY: mphill

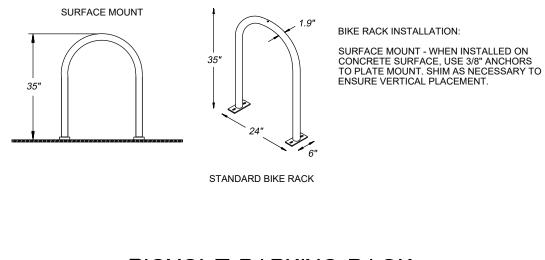




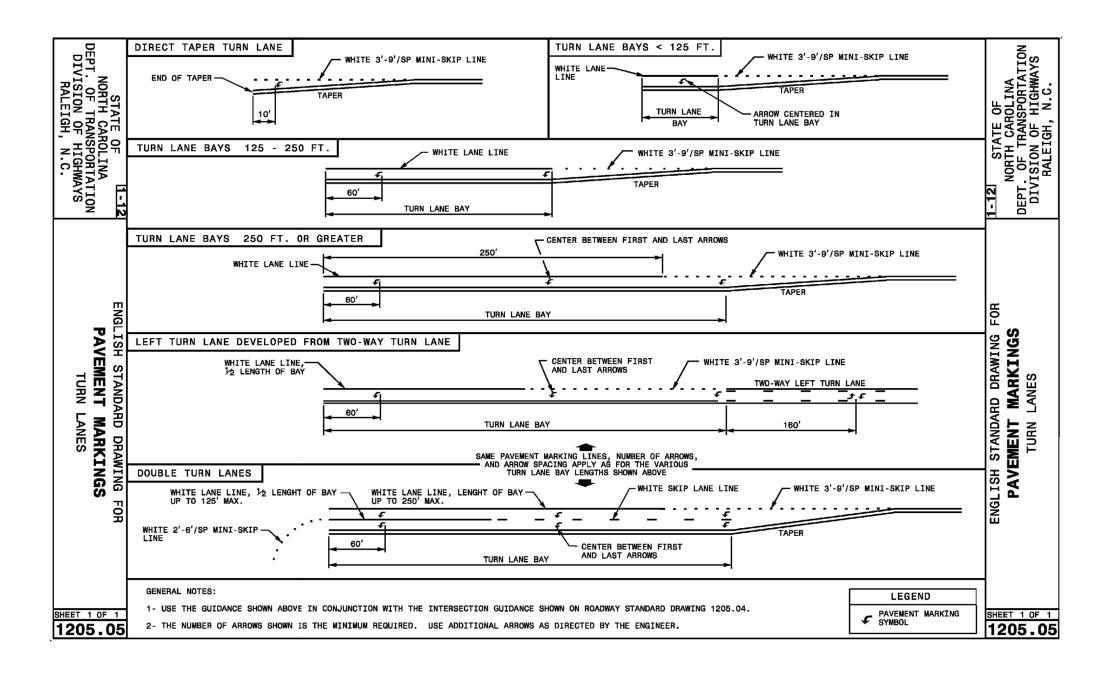




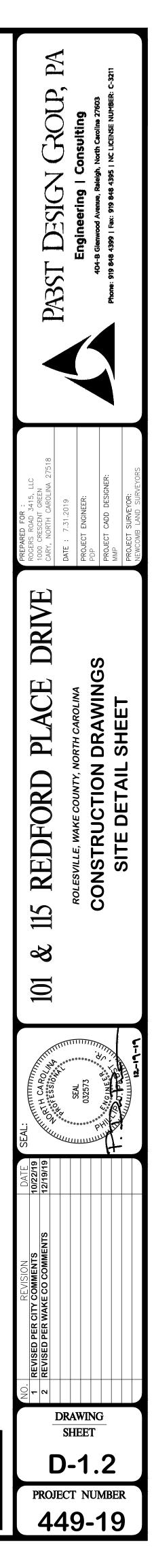


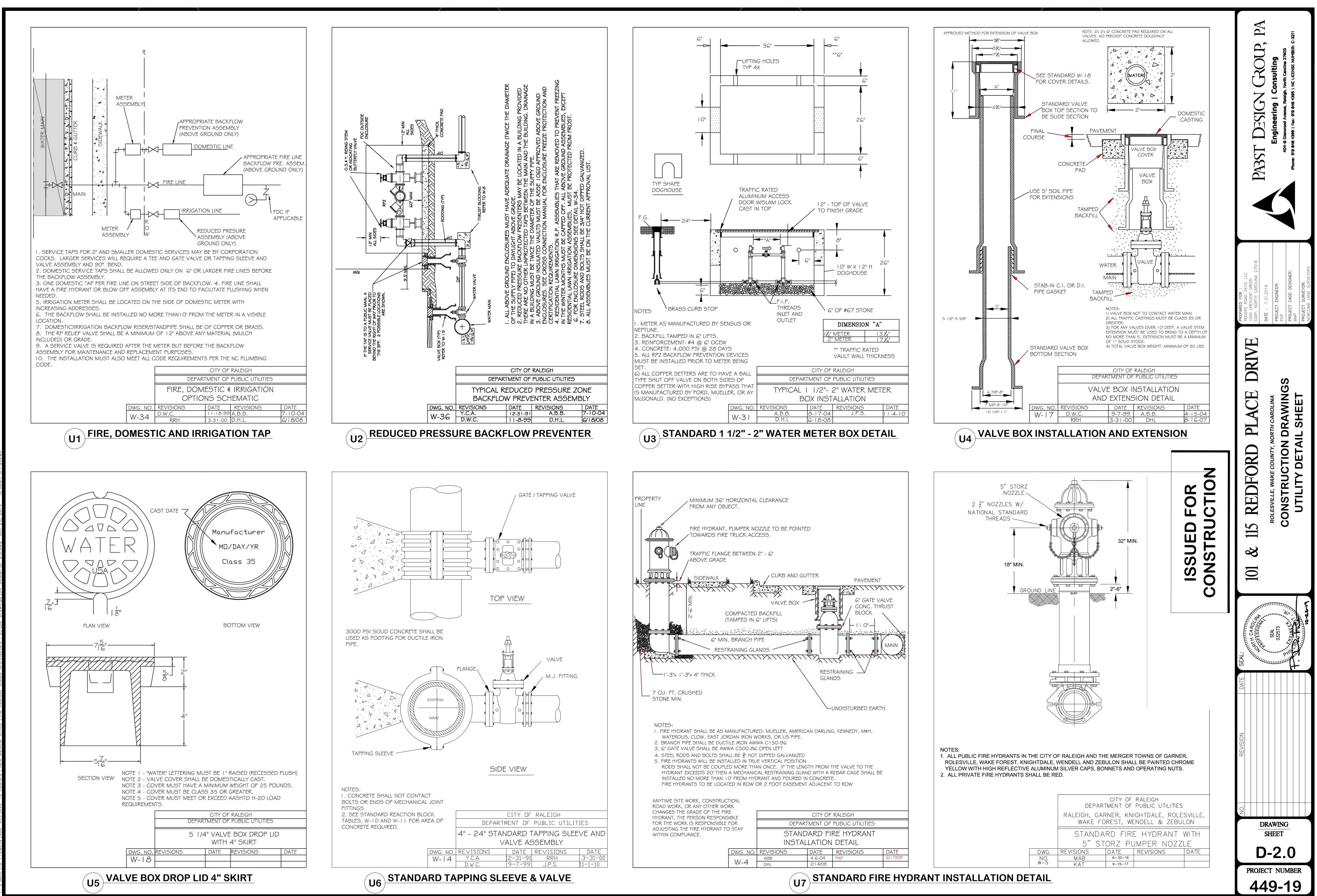




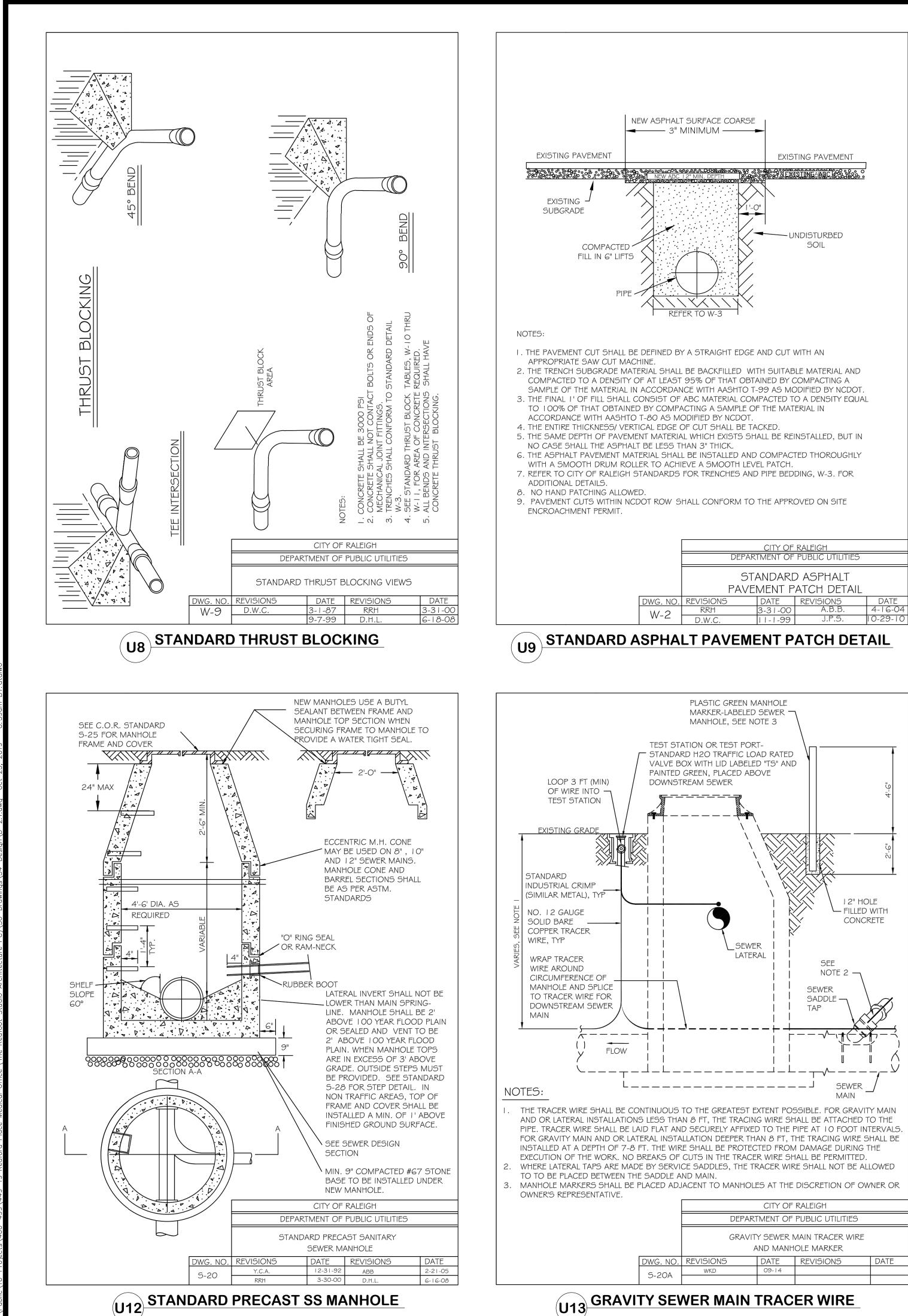


S14 PAVEMENT MARKINGS (TURN LANES)

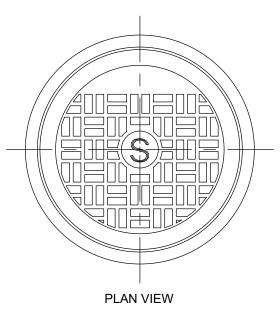


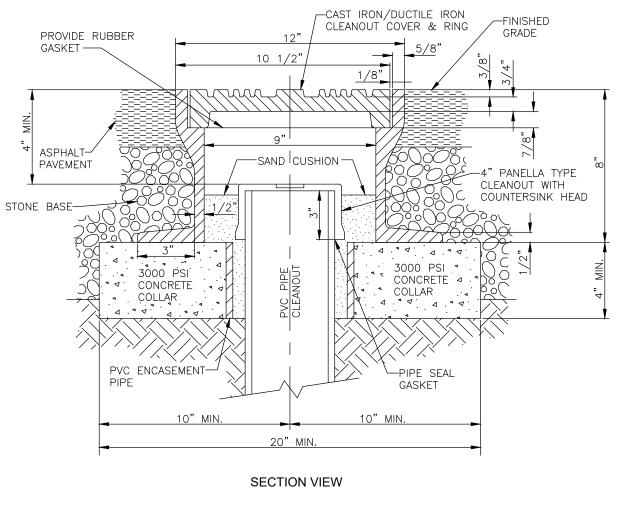


DRANT	INSTAL	LATION	DETAI



		CITY OF RALEIGH							
	DEPARTMENT OF PUBLIC UTILITIES								
			MAIN TRACER WIRE OLE MARKER						
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE					
5-20A	WKD	09-14							
J-20A									





U10 TRAFFIC BEARING CLEANOUT

INSTALLATION INSTRUCTIONS

Series 825YA and LF825YA

Reduced Pressure Zone Assemblies

18" (450mm) Min

12" (300mm) Min

12" (300mm) Min

(Refer to Local Codes)

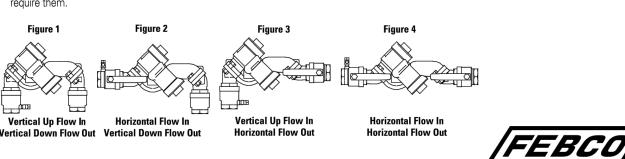
Sizes: ³/₄" – 2" (20 – 50mm)

Installation Instructions

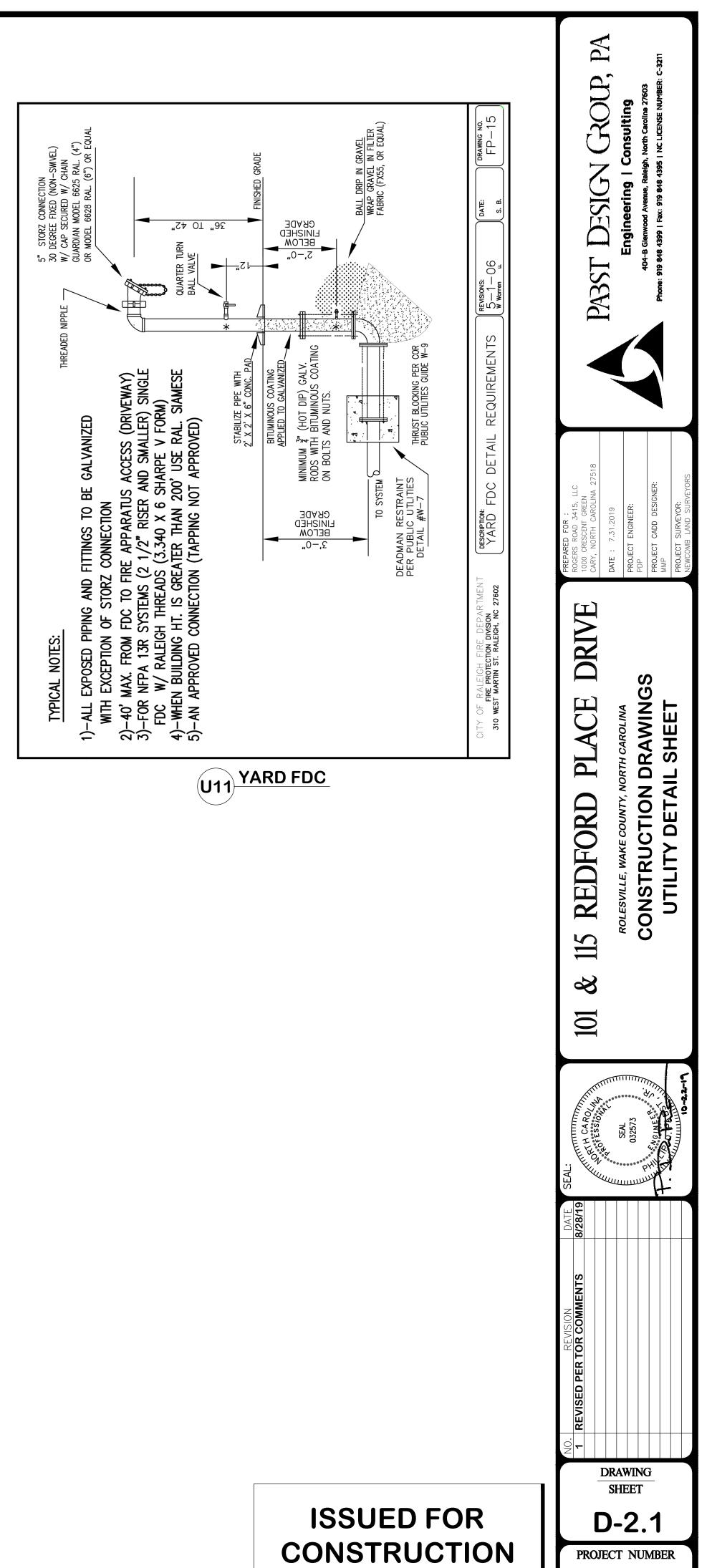
- 1. Consult local codes for specific installation requirements and restrictions applicable to your area. It is recommended that system supply pressure be at least 20psi (138 kPa).
- 2. These instructions apply to the Series 825YA and LF825YA, sizes ³/₄"- 2" (20 50mm) only. The assembly should be installed in the horizontal position with the relief valve
- on the side. 3. Approved flow directions indicated above may be achieved by removing the two bolts at the inlet or outlet adapter flange and rotating the ball valve/adapter assembly into the desired configuration shown.
- 4. THE VALVE ASSEMBLY MUST BE INSTALLED WHERE RELIEF VALVE DIS-CHARGE WILL BE ACCEPTABLE, OR WHERE RELIEF VALVE DISCHARGE CAN **BE COMPLETELY DRAINED.** The valve assembly must be installed where it is accessible for periodic testing and maintenance. Clearances shown in the installation views apply to exterior, interior and pit/vault installations and are only recommendations. These minimums do not apply to removable protective enclosures. Refer to local codes for actual requirements in your area. **NOTE:** The gap drain is not designed to catch the maximum discharge possible from

the relief valve. The installation of FEBCO air gap with the drain line terminating above a floor drain will handle any normal discharge or nuisance spitting through the relief valve. However, floor drain size may need to be designed to prevent water damage caused by a catastrophic failure condition. Do not reduce the size of the drain line from the air gap fitting.

- 5. PRIOR TO INSTALLING THE VALVE INTO THE LINE, FLUSH THE SUPPLY LINE **OF ALL FOREIGN MATERIAL.** Failure to flush the supply line may cause the check valves to become fouled and require disassembly and cleaning.
- 6. After installation **SLOWLY** fill the assembly with water and bleed air from the body using the #3 and #4 test cocks. Test the valve assembly to ensure correct operation. **NOTE:** All assemblies are tested at the factory for proper operation and leakage. If the valve does not pass the field test, it is most likely due to a fouled check valve. This is not covered by the factory warranty. The valve cover(s) must be removed and the check seats inspected and cleaned. Any damage or improper operation caused by pipeline debris or improper installation/start-up is not included in the factory warranty. In case of a possible warranty claim, contact your local supplier or FEBCO Representative. DO NOT REMOVE THE VALVE ASSEMBLY FROM THE PIPELINE.
- 7. The assembly must be protected from freezing and excessive pressure increases. Thermal expansion or water hammer can cause pressure increases. These excessive pressure situations must be eliminated to protect the valve and system from
- possible damage. 8. Plastic test cock plugs and tethers are provided (loose in box) for areas that require them.







449-19

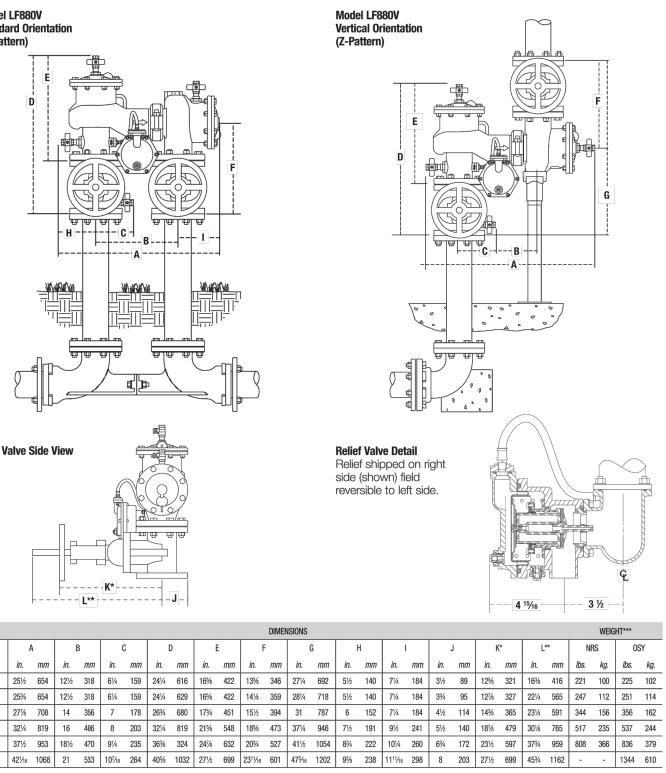
IS-F-825YA/RP

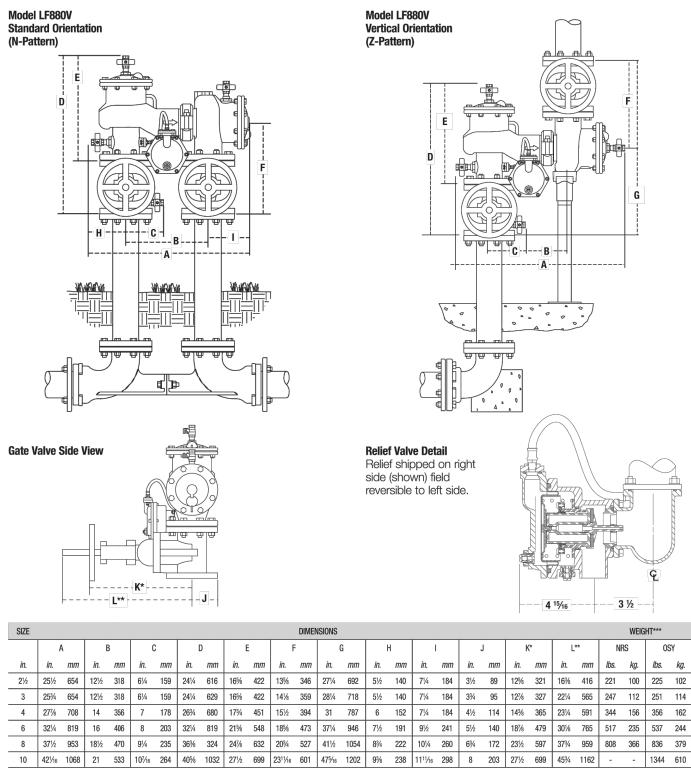
ES-F-LF880V

Dimensions – Weights Size: 21/2" - 10"

Representative for more information.

Model LF880V





	/	4	t	3		;	1	J	
in.	in.	mm	in.	тт	in.	mm	in.	mm	i
2 ½	25½	654	12½	318	6¼	159	24¼	616	16
3	25¾	654	12½	318	6¼	159	24¼	629	16
4	27%	708	14	356	7	178	26¾	680	17
6	32¼	819	16	406	8	203	32¼	819	21
8	37½	953	18½	470	91⁄4	235	36¾	324	24
10	42¹/ 16	1068	21	533	107/16	264	40%	1032	27
									_

* Indicates nominal dimensions with NRS Gate Valves ** Indicates nominal dimensions with OSY Gate Valves (Full Open Position) *** Indicates weight of complete Backflow Assemblies with specified Gate Valves drain line from the air gap fitting.

Job Name Job Location

Approval

Engineer ____

LEAD FREE* **MasterSeries**® **LF880V**

Reduced Pressure Zone **Prevention Assemblies**

Size: 21/2" - 10"

The FEBCO MasterSeries LF880V Reduced Pressure Zone Assembly is specifically designed to protect against possible backpressure and backsiphonage conditions for high hazard [i.e., toxic] application in accordance with Local Governing Water Utility Code. This Backflow Assembly is primarily used on potable drinking water systems where Local Governing Code mandates protection from non-potable quality water being pumped or siphoned back into the potable water system.

The LF880V features Lead Free* construction to comply with low lead installation requirements. The Lead Free* Reduced Pressure Zone Assemblies shall comply with state codes and standards, where applicable, requiring reduced lead content.

Features

- Inline Serviceable Assembly Horizontal "N-Pattern" Installations
- Vertical-Up "Z-Pattern" Installations
- No Special Tools Required for Servicing
- Captured Modular Spring Assembly
- Reversible & Replaceable Discs
- Field Replaceable Seats Ductile Iron Valve Body Design
- Stainless Steel Check Components
- Modular Pressure Differential Relief Valve
- Repairable Pressure Differential Relief Valve
- Clapper Check Assembly
- Captured O-ring Design



MODEL 880V REDUCED PRESSURE ZONE ASSEMBLY (Shown in standard orientation)

Specifications

Contractor

Approval

Contractor's P.O. No.

Representative ____

The FEBCO MasterSeries LF880V Reduced Pressure Zone Assembly shall be installed on the potable water supply and at each point of cross-connection to protect against possible backpressure and backsiphonage conditions for high hazard [i.e., toxic] applications. The assembly shall consist of a main line valve body composed of a pressure differential relief valve located in a zone between two (2) independently acting approved clapper style check modules with replaceable seats and disc rubbers. Servicing of the pressure differential relief valve and both check modules does not require any special tools; both check modules are accessed through independently top entry covers. This assembly shall be fitted with AWWA Compliant inlet/outlet resilient seated shutoff valves; when used on a Fire-Sprinkler application, the assembly shall be fitted with approved UL/FM inlet/outlet resilient seated shutoff valves and contain four (4) properly located resilient seated test cocks as specified by AWWA Standard C511. Flow and pressure loss performance parameters shall meet the requirements of AWWA Standard C511.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

NOTICE

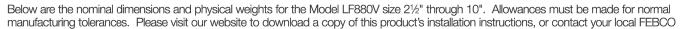
Inquire with governing authorities for local installation requirements *The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



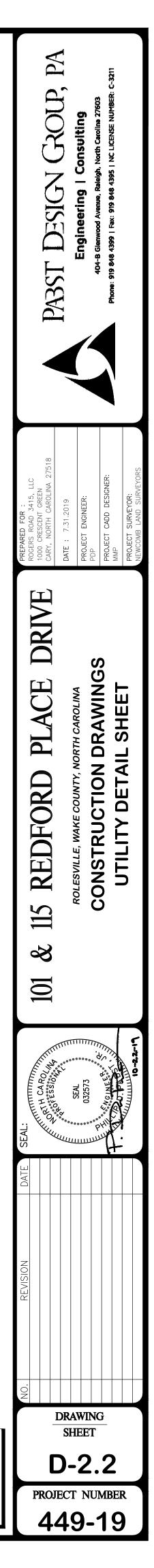
FEBC0 product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact FEBC0 Technical Service. FEBC0 reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on FEBCO products previously or subsequently sold.

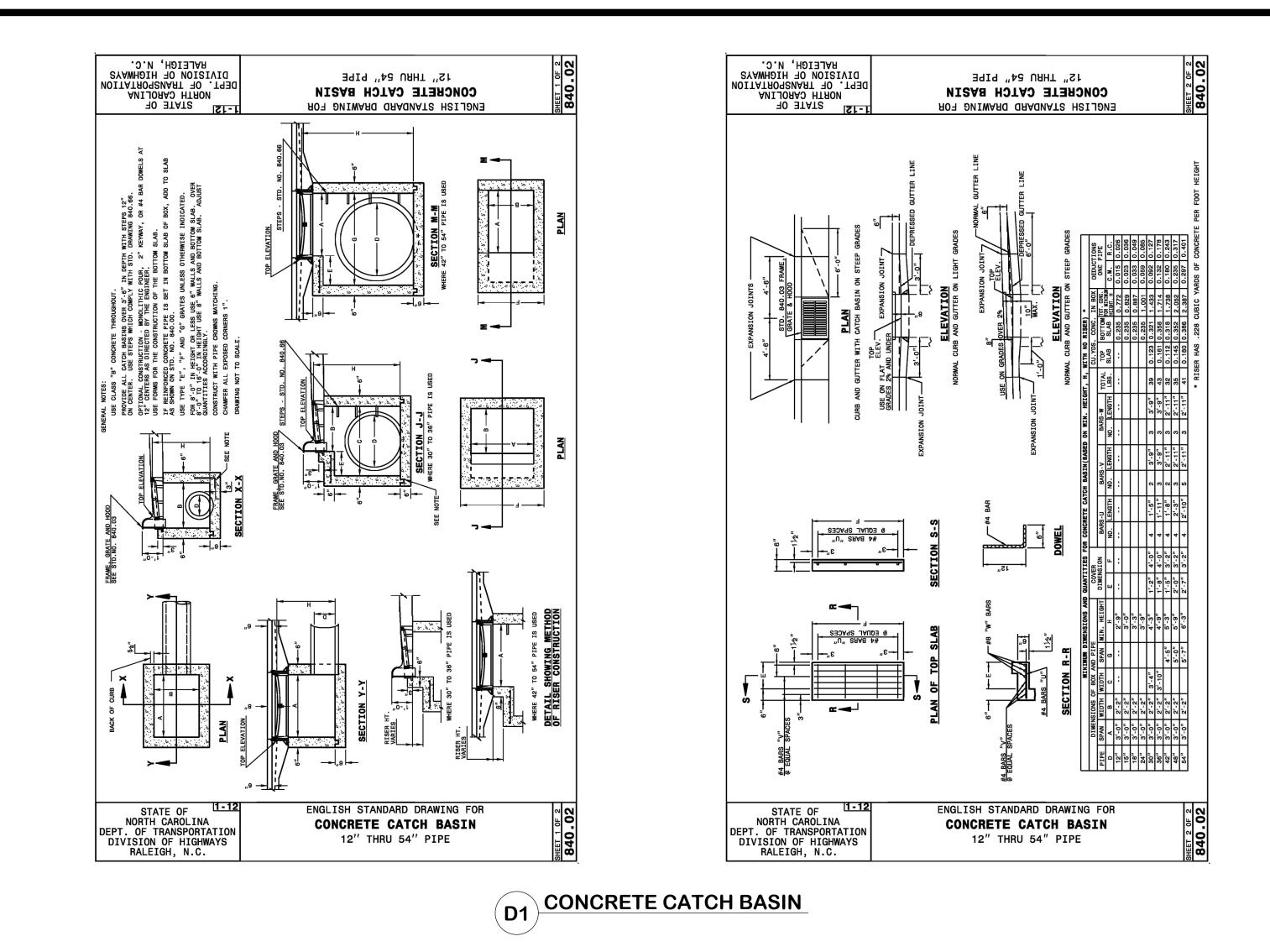
U15 FEBCO LF880V RPDA ASSEMBLY

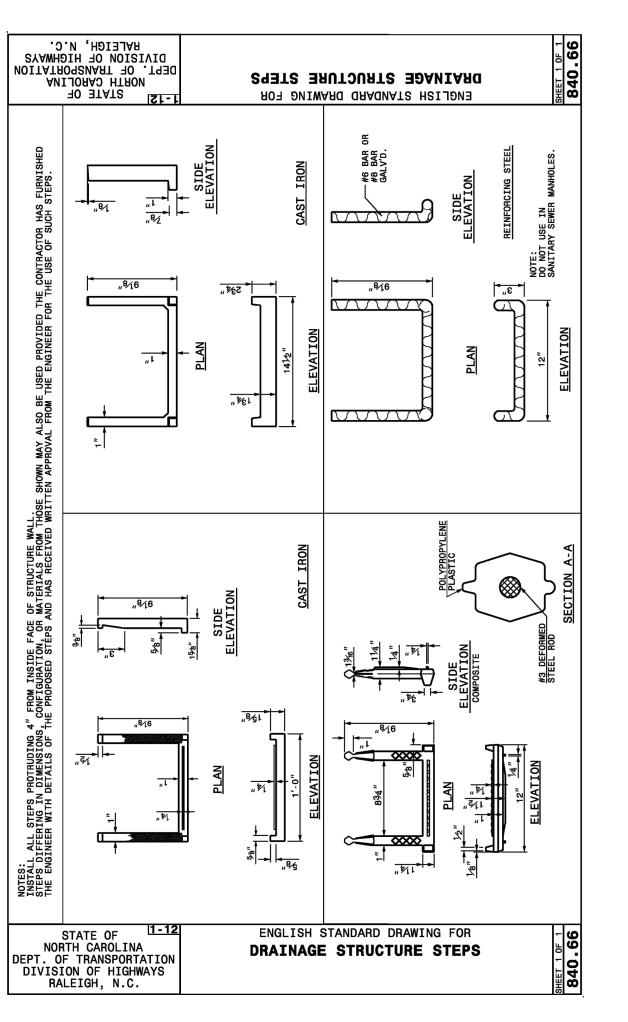
Notes:



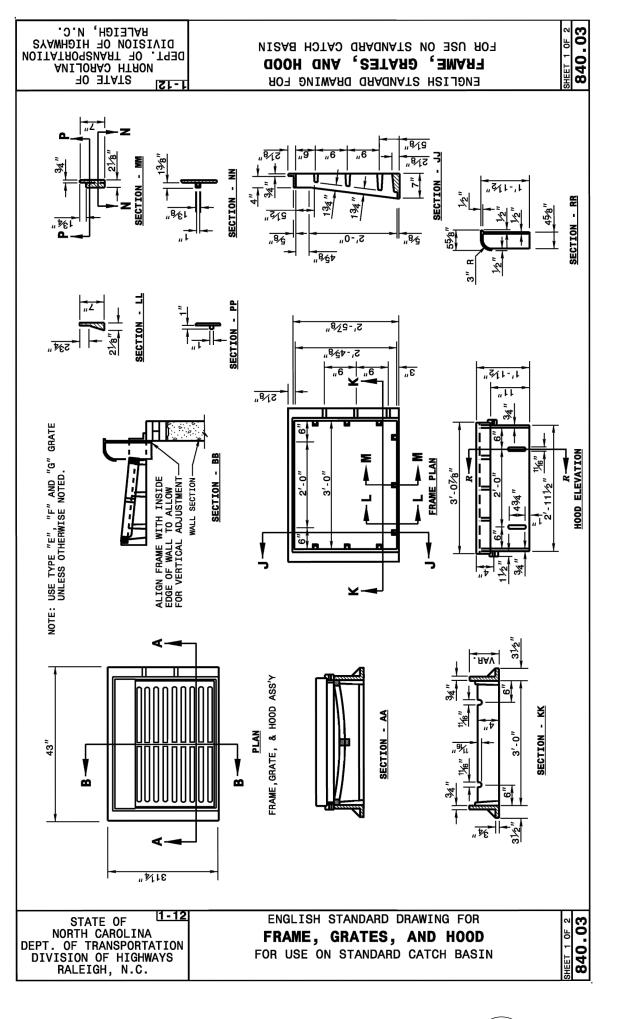
The gap drain is not designed to catch the maximum discharge possible from the relief valve. The installation of the FEBCO air gap with the drain line terminating above a floor drain will handle any normal discharge or nuisance spitting through the relief valve. However, floor drain size may need to be designed to prevent water damage caused by a catastrophic failure condition. Do not reduce the size of the

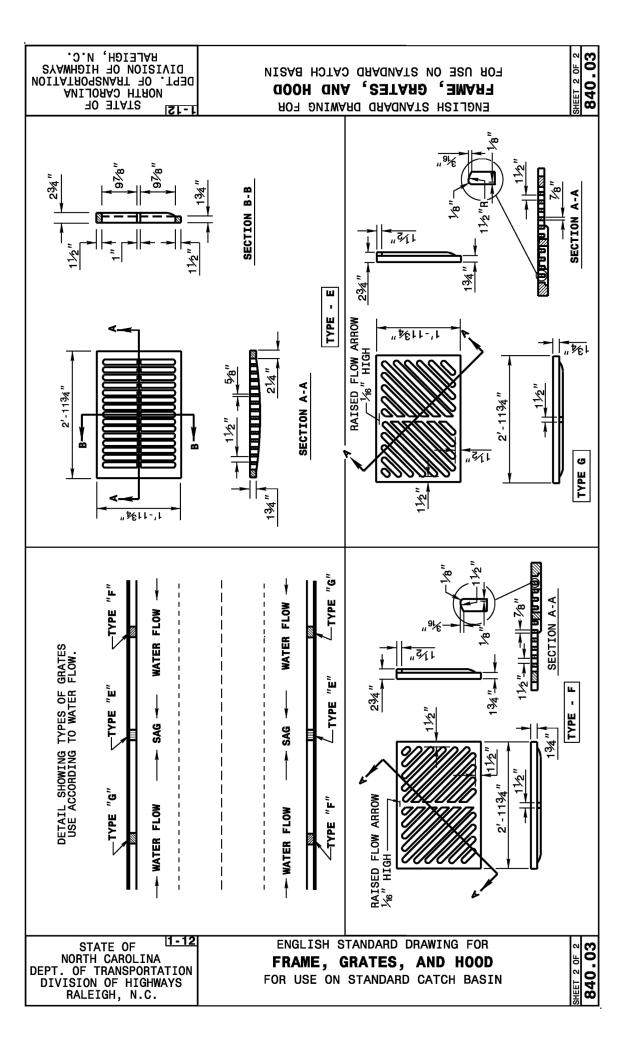




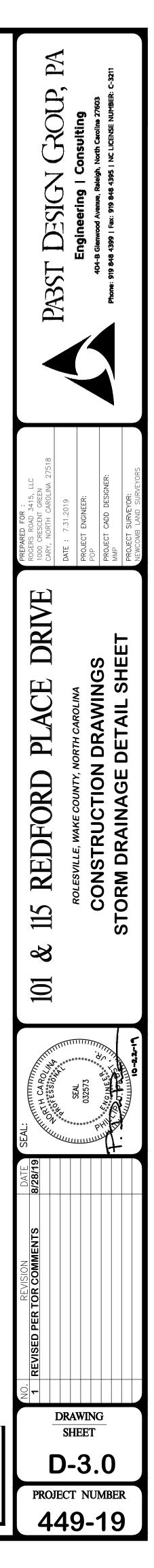


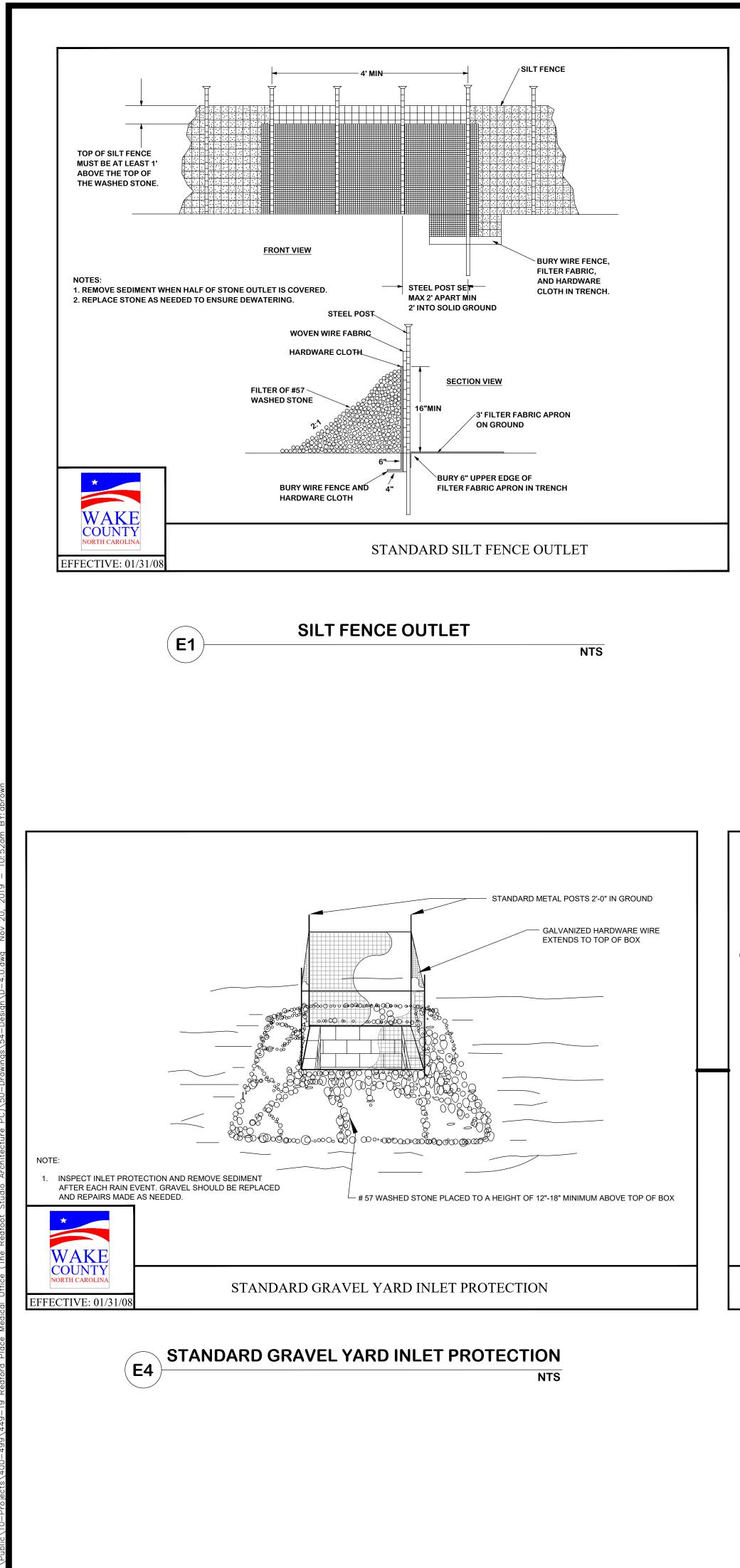
DRAINAGE STRUCTURE STEPS $(\mathbf{D3})$

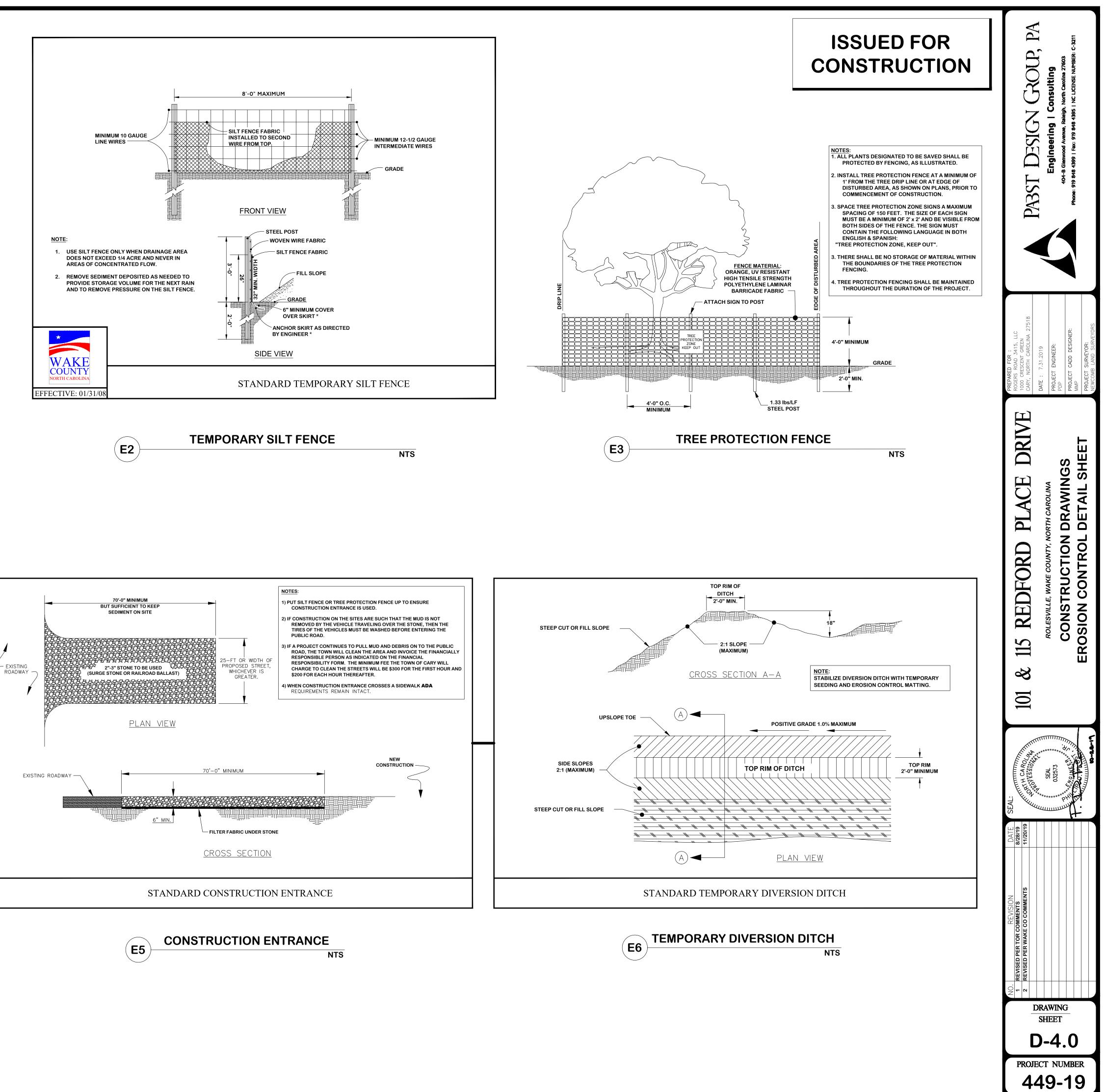




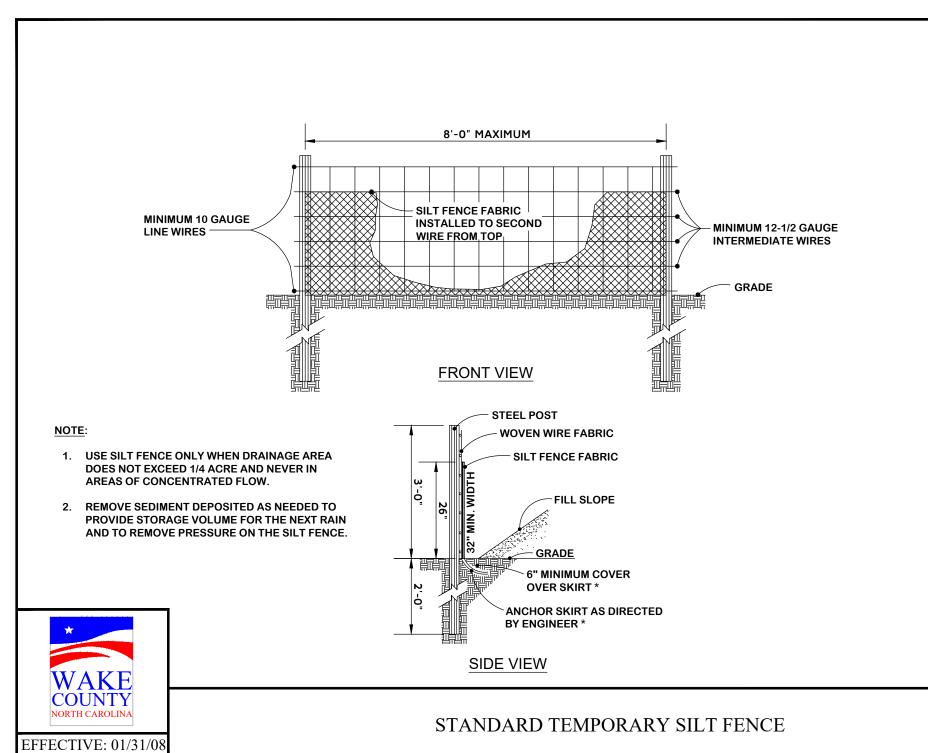
D2 FRAME, GRATES, AND HOOD

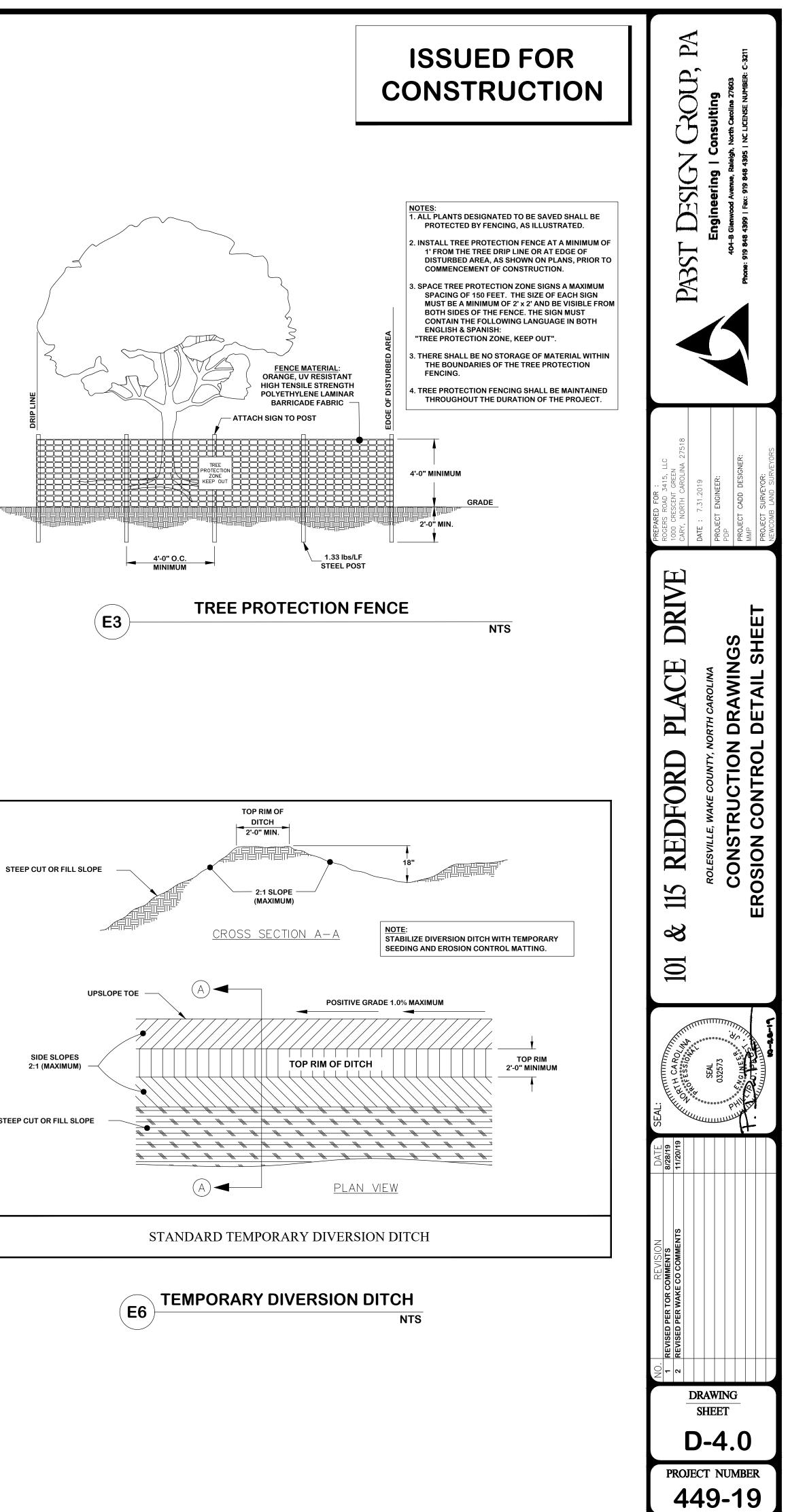


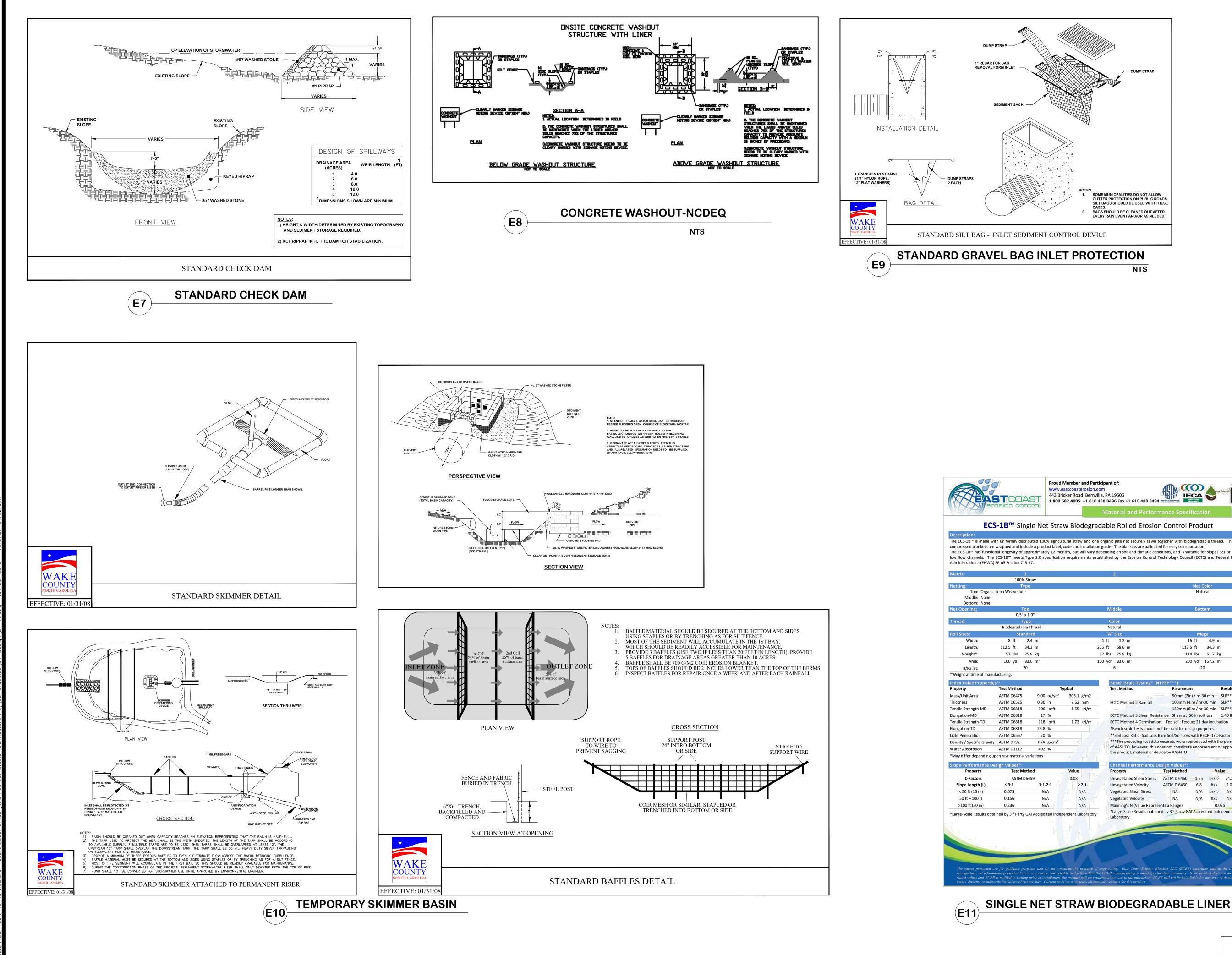




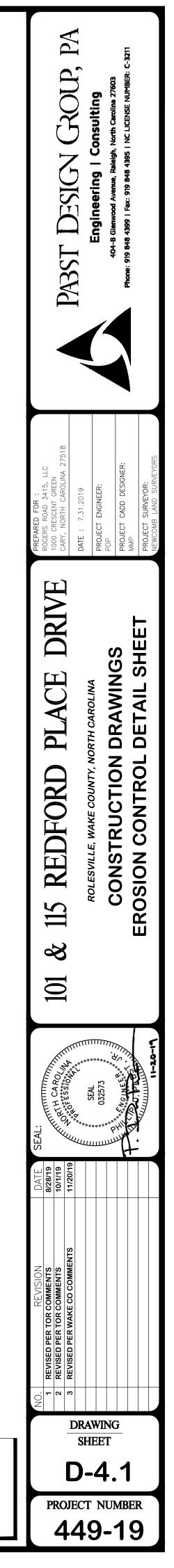








	n.com	
	Material and Perfo	rmance Specification
Net Straw Biodeg	radable Rolled Erosi	on Control Product
C specification requirements	2	Net Color
		Natural
	Middle	Bottom
	Color	
d	Natural "A" Size	Mega
	4 ft 1.2 m 225 ft 68.6 m	16 ft 4.9 m 112.5 ft 34.3 m
	57 lbs 25.9 kg	114 lbs 51.7 kg
	100 yd ² 83.6 m ² 6	200 yd ² 167.2 m ² 20
	Bench-Scale Testing*	/NTDED***).
Typical	Test Method	Parameters Results
0.00 oz/yd² 305.1 g/m2 0.30 in 7.62 mm	ECTC Method 2 Rainfall	50mm (2in) / hr-30 min SLR**=6.73 100mm (4in) / hr-30 min SLR**=7.45
106 lb/ft 1.55 kN/m	FCTC Method 3 Shear Re	150mm (6in) / hr-30 min SLR**=8.26 sistance Shear at .50 in soil loss 1.40 lb/ft ²
17 % 18 lb/ft 1.72 kN/m		tion Top soil; Fescue; 21 day incubation 580 %
6.8 % 20 %		d not be used for design purposes. ss Bare Soil/Soil Loss with RECP=1/C-Factor
N/A g/cm ³	***The preceding test da	ata excerpts were reproduced with the permission s does not constitute endorsement or approval of
192 %	the product, material or	
	Channel Performance	Design Values*:
Value	Property	Test Method Value
0.08 3:1-2:1 ≥ 2:1	Unvegetated Shear Stres Unvegetated Velocity	s ASTM D 6460 <u>1.55</u> lbs/ft ² 74.21 Pa ASTM D 6460 6.8 ft/s 2.07 m/s
N/A N/A	Vegetated Shear Stress	NA N/A lbs/ft ² N/A Pa
N/A N/A N/A	Vegetated Velocity Manning's N (Value Repr	esents a Range) 0.025
redited Independent Laborato	*Large-Scale Results obta	ained by 3 rd Party GAI Accredited Independent
	Laboratory	
	.n	
	P	



sections of the I permittee shall delegated author may not apply d	NSTRUCTION GE ne details and sp onsidered compli NCG01 Construct comply with the prity having juris	ENERAL PERMIT becifications on t liant with the Gr tion General Per Erosion and Sec sdiction. All deta e conditions and	NDLING PRACTICES FOR COMPLIANCE WITH this plan sheet will result in the construction round Stabilization and Materials Handling rmit (Sections E and F, respectively). The diment Control plan approved by the hils and specifications shown on this sheet d the delegated authority having jurisdiction.	 EQUIPMENT AND VEHICLE MAINTENANCE Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from project. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the pr has been corrected.
			ilization Timeframes	6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum pro
	Stab	bilize within this		to a recycling or disposal center that handles these materials.
Site Area De	days land	ny calendar is after ceasing d disturbance	Timeframe variations	LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE 1. Never bury or burn waste. Place litter and debris in approved waste containers
swales, di perimeter	tches, and slopes	7	None	 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 surfa waters unless no other alternatives are reasonably available.
 (b) High Qual (HQW) Zo (c) Slopes ste 	nes	7	None If slopes are 10' or less in length and are	 Locate waste containers on areas that do not receive substantial amounts of ru from upland areas and does not drain directly to a storm drain, stream or wetla
d) Slopes 3:1		7	not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones	 Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately containers overflow. Dispose waste off-site at an approved disposal facility. On business days, clean up and dispose of waste in designated waste container
			-10 days for Falls Lake Watershed -7 days for perimeter dikes, swales,	PAINT AND OTHER LIQUID WASTE
(e) Areas with flatter tha		14	ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope	 Do not dump paint and other liquid waste into storm drains, streams or wetlar Locate paint washouts at least 50 feet away from storm drain inlets and surfac waters unless no other alternatives are reasonably available.
round stabiliza racticable but i ctivity. Tempo	tion shall be con in no case longer rary ground stat	nverted to perm r than 90 calend bilization shall b	action activities, any areas with temporary panent ground stabilization as soon as dar days after the last land disturbing be maintained in a manner to render the permanent ground stabilization is achieved.	 Contain liquid wastes in a controlled area. Containment must be labeled, sized and placed appropriately for the needs of Prevent the discharge of soaps, solvents, detergents and other liquid wastes fr construction sites.
tabilize the gro echniques in th Tem • Temporary gra other mulches • Hydroseeding • Rolled erosion without temporary	ne table below: porary Stabilization ass seed covered we and tackifiers	v so that rain will	I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered	 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 feet is not attainable, provide relocation of portable toilet behind silt fence of on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked materia Utilize a licensed sanitary waste hauler to remove leaking portable toilets and r with properly operating unit.
 Select flo construct Apply floo Apply floo 	ion, selecting fro cculants at or be cculants at the co	• • • • • • • • • • • • • • • • • • •	Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed TS In the soils being exposed during <i>R List of Approved PAMS/Flocculants</i> . To Erosion and Sediment Control Measures. pecified in the <i>NC DWR List of Approved</i> h the manufacturer's instructions.	 EARTHEN STOCKPILE MANAGEMENT Show stockpile locations on plans. Locate earthen-material stockpile areas at l 50 feet away from storm drain inlets, sediment basins, perimeter sediment con and surface waters unless it can be shown no other alternatives are reasonably available. Protect stockpile with silt fence installed along toe of slope with a minimum of five feet from the toe of stockpile. Provide stable stone access point when feasible. Stabilize stockpile within the timeframes provided on this sheet and in accordate with the approved plan and any additional requirements. Soil stabilization is d as vegetative, physical or chemical coverage techniques that will restrain accel erosion on disturbed soils for temporary or permanent control needs.
offsite. 5. Store floc		proof containers	treated Stormwater before discharging s that are kept under storm-resistant cover t structures.	NORTH CAROLINA Environmental Quality
	SELF-INSPEC	PART		STABILIZATION AND MATERIAL PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING
below. When a personnel to be which it is safe	s are required du adverse weather e in jeopardy, the to perform the i	or site condition e inspection may inspection. In ac	siness hours in accordance with the table ns would cause the safety of the inspection y be delayed until the next business day on ddition, when a storm event of equal to or business hours, the self-inspection shall be	 SECTION B: RECORDKEEPING 1. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. T approved E&SC plan must be kept up-to-date throughout the coverage under this perr The following items pertaining to the E&SC plan shall be kept on site and available for increase the set of the
Self-inspection below. When a personnel to be which it is safe greater than 1. performed upo	s are required du adverse weather e in jeopardy, the to perform the i 0 inch occurs ou n the commence	r or site condition e inspection may inspection. In ac itside of normal ement of the ne	ns would cause the safety of the inspection y be delayed until the next business day on ddition, when a storm event of equal to or business hours, the self-inspection shall be xt business day. Any time when inspections	1. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. T approved E&SC plan must be kept up-to-date throughout the coverage under this per
Self-inspection below. When a personnel to be which it is safe greater than 1. performed upo were delayed s	s are required du adverse weather e in jeopardy, the to perform the i 0 inch occurs ou in the commence shall be noted in Frequency (during normal business hours)	r or site condition e inspection may inspection. In ac itside of normal ement of the ne the Inspection F	ns would cause the safety of the inspection y be delayed until the next business day on ddition, when a storm event of equal to or business hours, the self-inspection shall be ext business day. Any time when inspections Record.	1. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. T approved E&SC plan must be kept up-to-date throughout the coverage under this pertor. 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 locations, dimensions and relative elevations Initial and date each E&SC plan or complete, date and sign an inspection report that lists each
Self-inspection below. When a personnel to be which it is safe greater than 1. performed upo were delayed s	s are required du adverse weather e in jeopardy, the to perform the i 0 inch occurs our in the commence shall be noted in Frequency (during normal	r or site condition e inspection may inspection. In ac itside of normal ement of the ner the Inspection F Inspection reco Daily rainfall an If no daily rain holiday period available, recor attended days needed). Days "zero." The p	ns would cause the safety of the inspection y be delayed until the next business day on ddition, when a storm event of equal to or business hours, the self-inspection shall be ext business day. Any time when inspections Record. ords must include: nounts. a gauge observations are made during weekend or is, and no individual-day rainfall information is rd the cumulative rain measurement for those un- is (and this will determine if a site inspection is is on which no rainfall occurred shall be recorded as permittee may use another rain-monitoring device	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 performing 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 locations, dimensions and relative elevations shown on the approved E&SC plan. Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. Final Requirement initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
Self-inspection below. When a personnel to be which it is safe greater than 1. performed upo were delayed s Inspect (1) Rain gauge maintained in good working	s are required du adverse weather e in jeopardy, the to perform the i 0 inch occurs our in the commence hall be noted in Frequency (during normal business hours) Daily At least once per 7 calendar days and within 24 hours of a rain	r or site condition e inspection may inspection. In ac itside of normal ement of the ne: the Inspection F Inspection reco Daily rainfall an If no daily rain holiday period available, recor attended days "zero." The p approved by th 1. Identificatio 2. Date and tim 3. Name of the 4. Indication of	ns would cause the safety of the inspection y be delayed until the next business day on ddition, when a storm event of equal to or business hours, the self-inspection shall be ext business day. Any time when inspections Record. ords must include: nounts. a gauge observations are made during weekend or is, and no individual-day rainfall information is rd the cumulative rain measurement for those un- is (and this will determine if a site inspection is is on which no rainfall occurred shall be recorded as permittee may use another rain-monitoring device	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 pertoperation of 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 locations, dimensions and relative elevations shown on the approved E&SC plan. Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan.
Self-inspection below. When a personnel to be which it is safe greater than 1. performed upo were delayed s Inspect (1) Rain gauge maintained in good working order (2) E&SC	s are required du adverse weather e in jeopardy, the to perform the i 0 inch occurs our in the commence shall be noted in Frequency (during normal business hours) Daily At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours At least once per 7 calendar days and within 24 hours of a rain	r or site condition e inspection may inspection. In ac itside of normal ement of the ne: the Inspection F Inspection F Daily rainfall an if no daily rain holiday period available, recor attended days needed). Days "zero." The p approved by th 1. Identificatio 2. Date and tim 3. Name of the 4. Indication of properly, 5. Description 6. Description, 1. Identificatio 2. Date and tim 3. Name of the 4. Indication of properly, 5. Description, 6. Description, 1. Identificatio 2. Date and tim 3. Name of the 4. Evidence of	ns would cause the safety of the inspection y be delayed until the next business day on ddition, when a storm event of equal to or business hours, the self-inspection shall be ext business day. Any time when inspections Record. ords must include: mounts. a gauge observations are made during weekend or is, and no individual-day rainfall information is rd the cumulative rain measurement for those un- is (and this will determine if a site inspection is cond this will determine of those un- is (and this will determine if a site inspection is condition. In of the measures inspected, ne of the inspection, f whether the measures were operating of maintenance needs for the measure, , evidence, and date of corrective actions taken. In of the discharge outfalls inspected, ne of the inspection, a person performing the inspection, indicators of stormwater pollution such as oil	I. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. approved E&SC plan must be kept up-to-date throughout the coverage under this per 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 locations, dimensions and relative elevations shown on the approved E&SC plan. Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measures are modified after initial installation. (b) A phase of grading has been completed. Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase. (c) Ground cover is located and installed in accordance with the approved E&SC plan. Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase. (d) The maintenance and repair requirements for all E&SC measures Complete, date and sign an inspection report. (d) The maintenance and repair Complete, date and sign an inspection report.
Self-inspection below. When a personnel to be which it is safe greater than 1. performed upo were delayed s Inspect (1) Rain gauge maintained in good working order (2) E&SC Measures (3) Stormwater discharge	s are required du adverse weather e in jeopardy, the to perform the i 0 inch occurs out in the commence ihall be noted in Frequency (during normal business hours) Daily At least once per 7 calendar days and within 24 At least once per 7 calendar days and within 24	r or site condition e inspection may inspection. In ac itside of normal ement of the ne: the Inspection F Inspection F Daily rainfall an if no daily rain holiday period available, recor attended days needed). Days "zero." The p approved by th 1. Identificatio 2. Date and tim 3. Name of the 4. Indication of properly, 5. Description, 6. Description, 1. Identificatio 2. Date and tim 3. Name of the 4. Evidence of sheen, floati 5. Indication of 6. Description, 1. Identificatio 2. Date and tim 3. Name of the 4. Evidence of sheen, floati 5. Indication of 6. Description, 1. Identification of 1. Identi	ns would cause the safety of the inspection y be delayed until the next business day on ddition, when a storm event of equal to or business hours, the self-inspection shall be ext business day. Any time when inspections Record. ords must include: mounts. a gauge observations are made during weekend or is, and no individual-day rainfall information is rd the cumulative rain measurement for those un- is (and this will determine if a site inspection is to mwhich no rainfall occurred shall be recorded as sermittee may use another rain-monitoring device te Division. In of the measures inspected, ne of the inspection, a person performing the inspection, f whether the measures were operating of maintenance needs for the measure, , evidence, and date of corrective actions taken. In of the discharge outfalls inspected, ne of the inspection, a person performing the inspection, indicators of stormwater pollution such as oil ing or suspended solids or discoloration, f visible sediment leaving the site, , evidence, and date of corrective actions taken. entation is found outside site limits, then a record	1. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. Tapproved E&SC plan must be kept up-to-date throughout the coverage under this per 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 locations, dimensions and relative elevations shown on the approved E&SC plan. Initial and date each E&SC measure on a copy of the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation. (b) A phase of grading has been completed. Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase. (c) Ground cover is located and installed in accordance with the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase. (d) The maintenance and repair Complete, date and sign an inspection report.

- (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 shown to provide equal access and utility as the hard-copy records.
- electronically-available records in lieu of the required paper copies will be allowed if 3. Documentation to be Retained for Three Years All data used to complete the e-NOI and all inspection records shall be maintained for a pe of three years after project completion and made available upon request. [40 CFR 122.41]

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

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be draw 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 w Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

Regional Office per Part III, Section C, Item (2)(a) of this permit.

The phase of grading (installation of perimeter E&SC

drainage facilities, completion of all land-disturbing

activity, construction or redevelopment, permanent

Documentation that the required ground stabilization

measures have been provided within the required timeframe or an assurance that they will be provided as

ground cover).

soon as possible.

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

measures, clearing and grubbing, installation of storm

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal and the specific time periods or conditions in which it will occur.
- shall not commence until the E&SC plan authority has approved these items, (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls incl
- 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

24 hours

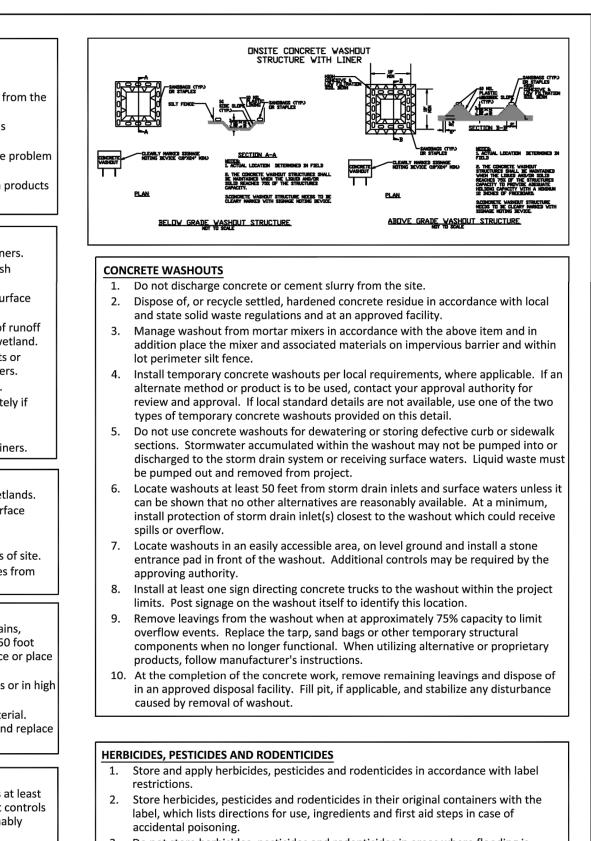
of grading

After each phase

(6) Ground

measures

stabilization



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

1. 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.

S HANDLING

EFFECTIVE: 04/01/19

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 Discovery) and Other Requirements
11	(a) Visible sediment deposition in a stream or wetland	 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.
f	(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	 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.
	(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	 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.
	(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
vn down veather).	(e) Noncompliance with the conditions of this permit that may endanger	 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
ndrawal	health or the environment[40 CFR 122.41(I)(7)]	 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.
lude		· · ·
		000

PERMANENT SEEDING SCHEDULE

SEEDING MIXTURE PER NCDOT (EAST), ALTERNATE NATIVE SEED VARIETIES AND MIX RATES MAY BE CONSIDERED IF INCLUDED IN THE NC STATE UNIVERSITY/AT&T UNIVERSITY COOPERATIVE EXTENSION THAT'S APPROVED BY NCDEQ. AND TABLES IN NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL SECTION 6.11

MARCH 1- AUG. 31

SPECIES	RATE (LB/ACRE
TALL FESCUE	50
CENTIPEDE	10
BERMUDAGRASS (HULLED)	25
FERTILIZER	500
SEPTEMBER 1 - FEBRUARY 28 <u>SPECIES</u>	RATE (LB/ACRE
TALL FESCUE	50
CENTIPEDE	10
BERMUDAGRASS (UNHULLED)	35
FERTILIZER	500
LIMESTONE	4000

SEEDBED PREPARATION

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 2 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF 2. AVAILABLE.
- 3. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- 4. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE LEAVING REASONABLY SMOOTH AND UNIFORM. 5. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
- 6. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONALBE UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- 7. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING. 8. MULCH IMMEDIATELY AFTER SEEING AND ANCHOR MULCH.
- 9. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

NOTE:

ON CUT AND FILL SLOPES 2:2 OR STEEPER CENTIPEDE SHALL BE APPLIED AT THE RATE OF 5 LBS/ACRE AND ADD 20 LB/ACRE OF SERICEA LESPEDEZA FROM JANUARY 1-DECEMBER 31.

FERTILIZER SHALL BE 10-20-20 ANALYSIS. A DIFFERENT ANALYSIS OF FERTILIZER MAY BE USED PROVIDED THE 1-2-2 RATIO IS MAINTAINED AND THE RATE OF APPLICATION ADJUSTED TO PROVIDE THE SAME AMOUNT OF PLANT FOOD AS 10-20-20 ANALYSIS AND AS DIRECTED.

MULCH: APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:

TEMPORARY SEEDING SCHEDULE

SEEDING MIXTURE PER NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL IN THE PIEDMONT

(LATE WINTER AND EARLY SPRING): JAN. 1-MAY 1	
SPECIES	RATE (LB/ACRE)
RYE (GRAIN) ANNUAL LESPEDEZA (KOBE IN	120
PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS	50
OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVI	ER IS NOT TO EXTEND BEY
(SUMMER): MAY 1- AUG. 15	
SPECIES	RATE (LB/ACRE)
GERMAN MILLET	40
IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDAN G	RASS MAY BE SUBSTITUTE
(FALL): AUG. 15- DEC. 30	
SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120
SOIL AMENDMENTS:	

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH: APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. FOR THE FALL, REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NORTH CAROLINA Environmental Quality

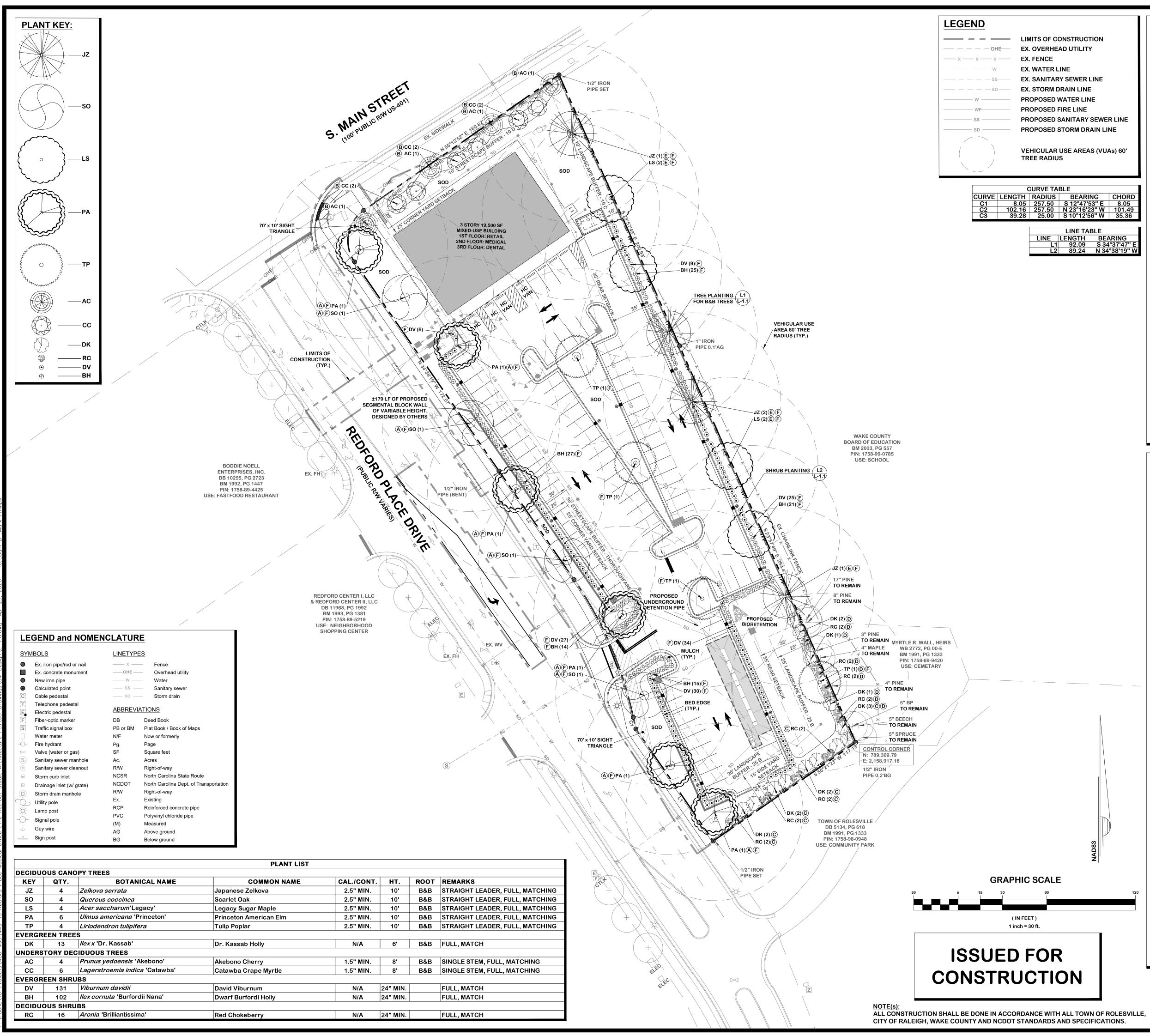
EFFECTIVE: 04/01/19

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

EYOND JUNE.

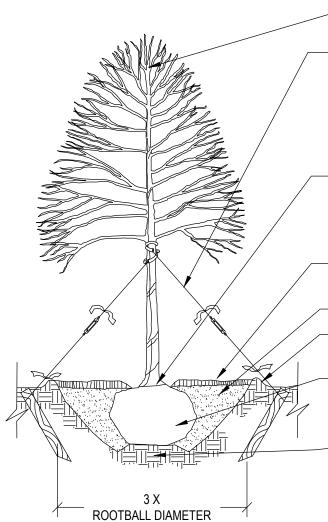
JTED AT A RATE OF 50 LB/ACRE.





OUS CANC	DPY TREES					
QTY.	BOTANICAL NAME	COMMON NAME	CAL./CONT.	HT.	ROOT	REMARKS
4	Zelkova serrata	Japanese Zelkova	2.5" MIN.	10'	B&B	STRAIGHT LEADE
4	Quercus coccinea	Scarlet Oak	2.5" MIN.	10'	B&B	STRAIGHT LEADE
4	Acer saccharum'Legacy'	Legacy Sugar Maple	2.5" MIN.	10'	B&B	STRAIGHT LEADER
6	Ulmus americana 'Princeton'	Princeton American Elm	2.5" MIN.	10'	B&B	STRAIGHT LEADE
4	Liriodendron tulipifera	Tulip Poplar	2.5" MIN.	10'	B&B	STRAIGHT LEADE
EEN TREE	S					
13	<i>llex x</i> 'Dr. Kassab'	Dr. Kassab Holly	N/A	6'	B&B	FULL, MATCH
TORY DEC	CIDUOUS TREES					
4	Prunus yedoensis 'Akebono'	Akebono Cherry	1.5" MIN.	8'	B&B	SINGLE STEM, FUL
6	Lagerstroemia indica 'Catawba'	Catawba Crape Myrtle	1.5" MIN.	8'	B&B	SINGLE STEM, FUL
EEN SHRU	IBS					
131	Viburnum davidii	David Viburnum	N/A	24" MIN.		FULL, MATCH
102	<i>llex cornuta</i> 'Burfordii Nana'	Dwarf Burfordi Holly	N/A	24" MIN.		FULL, MATCH
OUS SHRU	IBS					
16	Aronia 'Brilliantissima'	Red Chokeberry	N/A	24" MIN.		FULL, MATCH
	QTY. 4 4 6 4 EEN TREE 13 TORY DEC 4 6 EEN SHRU 131 102 DUS SHRU	4Zelkova serrata4Quercus coccinea4Acer saccharum'Legacy'6Ulmus americana 'Princeton'4Liriodendron tulipiferaEEN TREES13Ilex x 'Dr. Kassab'TORY DECIDUOUS TREES4Prunus yedoensis 'Akebono'6Lagerstroemia indica 'Catawba'EEN SHRUBS131Viburnum davidii102Ilex cornuta 'Burfordii Nana'OUS SHRUBS	QTY.BOTANICAL NAMECOMMON NAME4Zelkova serrataJapanese Zelkova4Quercus coccineaScarlet Oak4Acer saccharum'Legacy'Legacy Sugar Maple6Ulmus americana 'Princeton'Princeton American Elm4Liriodendron tulipiferaTulip PoplarEEN TREES13Ilex x 'Dr. Kassab'Dr. Kassab HollyTORY DECIDUOUS TREES4Prunus yedoensis 'Akebono'Akebono Cherry6Lagerstroemia indica 'Catawba'Catawba Crape MyrtleEEN SHRUBS131Viburnum davidiiDavid Viburnum102Ilex cornuta 'Burfordii Nana'Dwarf Burfordi HollyDUS SHRUBS	QTY.BOTANICAL NAMECOMMON NAMECAL./CONT.4Zelkova serrataJapanese Zelkova2.5" MIN.4Quercus coccineaScarlet Oak2.5" MIN.4Acer saccharum'Legacy'Legacy Sugar Maple2.5" MIN.6Ulmus americana 'Princeton'Princeton American Elm2.5" MIN.4Liriodendron tulipiferaTulip Poplar2.5" MIN.6Ulmus americana 'Princeton'Princeton American Elm2.5" MIN.713Ilex x 'Dr. Kassab'Dr. Kassab HollyN/ATORY DECIDUOUS TREES4Prunus yedoensis 'Akebono'Akebono Cherry1.5" MIN.6Lagerstroemia indica 'Catawba'Catawba Crape Myrtle1.5" MIN.EEN SHRUBS131Viburnum davidiiDavid ViburnumN/A102Ilex cornuta 'Burfordii Nana'Dwarf Burfordi HollyN/A	QTY.BOTANICAL NAMECOMMON NAMECAL./CONT.HT.4Zelkova serrataJapanese Zelkova2.5" MIN.10'4Quercus coccineaScarlet Oak2.5" MIN.10'4Acer saccharum'Legacy'Legacy Sugar Maple2.5" MIN.10'6Ulmus americana 'Princeton'Princeton American Elm2.5" MIN.10'4Liriodendron tulipiferaTulip Poplar2.5" MIN.10'13Ilex x 'Dr. Kassab'Dr. Kassab HollyN/A6'TORY DECIDUOUS TREES4Prunus yedoensis 'Akebono'Akebono Cherry1.5" MIN.8'6Lagerstroemia indica 'Catawba'Catawba Crape Myrtle1.5" MIN.8'EEN SHRUBS13Viburnum davidiiDavid ViburnumN/A24" MIN.102Ilex cornuta 'Burfordii Nana'Dwarf Burfordi HollyN/A24" MIN.OUS SHRUBS	QTY.BOTANICAL NAMECOMMON NAMECAL./CONT.HT.ROOT4Zelkova serrataJapanese Zelkova2.5" MIN.10'B&B4Quercus coccineaScarlet Oak2.5" MIN.10'B&B4Acer saccharum'Legacy'Legacy Sugar Maple2.5" MIN.10'B&B6Ulmus americana 'Princeton'Princeton American Elm2.5" MIN.10'B&B4Liriodendron tulipiferaTulip Poplar2.5" MIN.10'B&BEEN TREES13I/ex x 'Dr. Kassab'Dr. Kassab HollyN/A6'B&BTORY DECIDOUS TREES4Prunus yedoensis 'Akebono'Akebono Cherry1.5" MIN.8'B&BEEN SHRUBS131Viburnum davidiiDavid ViburnumN/A24" MIN.102I/ex cornuta 'Burfordii Nana'Dwarf Burfordi HollyN/A24" MIN.OUS SHRUBS

	GENERAL PLANTING NOTES:	VA ⁼
TS OF CONSTRUCTION OVERHEAD UTILITY SENCE	1. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES AND SHALL MEET ALL STANDARDS AS STATED IN THE LATEST EDITION OF 'AMERICAN STANDARD FOR NURSERY STOCK'.	
VATER LINE SANITARY SEWER LINE	2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWINGS SHALL TAKE PRECEDENCE.	Relia 27603 th Carolina 27603 th Carolina 27603
TORM DRAIN LINE POSED WATER LINE	3. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER OR LANDSCAPE DESIGNER.	
POSED FIRE LINE POSED SANITARY SEWER LINE POSED STORM DRAIN LINE	4. CONTRACTOR SHALL HAVE UTILITY COMPANY LOCATE ALL UTILITIES PRIOR TO DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED BY HIS/HER WORK.	SIG ering Avenue, Rale
ICULAR USE AREAS (VUAs) 60' E RADIUS	5. METHODS OF TREE STAKING INDICATED ON THE DRAWINGS ARE SUGGESTIONS ONLY. THE LANDSCAPE CONTRACTOR SHALL USE WHATEVER METHOD HE DEEMS FIT, HOWEVER HE WILL BE HELD LIABLE FOR ANY DAMAGES CAUSED TO TREES BY IMPROPER STAKING METHODS (OR ABSENCE OF STAKING) AND IS RESPONSIBLE FOR UPRIGHTING AND REPLANTING TREES WHICH ARE BLOWN	ST DE Engine 404-B Glenwood / e: 919 848 4399 Fax:
IRVE TABLE RADIUS BEARING CHORD 257.50 S 12°47'53" E 8.05 257.50 N 23°16'23" W 101.49 25.00 S 10°12'56" W 35.36	 OVER. 6. ALL AREAS NOT SHOWN AS HARD SURFACES, PLANT BED, MULCHED OR UNDISTURBED AREAS, SHALL BE SEEDED OR SODDED AS LAWN WITH "REBEL IV", CONFEDERATE PLUS OR LESCO TALL TURF TYPE FESCUE FOR IN ALL AREAS IN RIGHT OF WAY UP TO THE ROAD. 	Phone: 91
LINE TABLE LINE LENGTH BEARING L1 92.09 S 34°37'47" E	7. ALL LANDSCAPE BEDS CONTAIN TRIPLE SHREDDED HARDWOOD MULCH AT A THICKNESS OF 3".	
L1 92.09 5 34-37 47 E L2 89.24 N 34°38'19" W	8. ALL LANDSCAPE BEDS SHALL HAVE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.	
	9. ALL PLANT BEDS SHALL BE TREATED WITH PRE-EMERGENT WEED CONTROL (I.E. TREFLON GRANULES).	
	10. ALL PLANTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN AND SHALL BE VIGOROUS, HEALTHY MATERIAL FREE OF PESTS AND DISEASE.	NA 27518 SNER:
	11. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE PLANTING CONTRACTOR, AND THE TOTAL QUANTITIES SHALL BE REQUIRED ON THE PLANTING PLAN.	ED FOR : ROAD 3415, LLC RESENT GREEN IORTH CAROLINA 2 7.31.2019 7.31.2019 T ENGINEER: T ENGINEER: T SURVEYOR: AB LAND SURVEYOI
	12. OWNERS SHALL MAINTAIN ALL PLANT BEDS AND PLANT MATERIAL IN GOOD HEALTH, AND ANY DEAD, UNHEALTHY OR MISSING PLANTS SHALL BE REPLACED WITH THE SAME PLANT MATERIAL ORIGINALLY SPECIFIED ON THIS PLAN.	PREPARED ROGERS R 1000 CRE CARY, NOI CARY, NOI DATE : 7 PROJECT PROJECT NEWCOMB
	13. PLANT MATERIAL ON THIS SITE MUST BE INSTALLED IN CONFORMANCE WITH THE GENERAL PLANTING NOTES AND DETAILS ON THIS PLAN OR TO THE STANDARDS OF TOWN OF ROLESVILLE.	BRIVE
	14. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PERMITS AND LICENSES TO PERFORM THE REQUIRED WORK.	s L
	LANDSCAPE CALCULATIONS:	
	A REDFORD PLACE DRIVE 30' STREETSCAPE BUFFER - THOROUGHFARE	PL PL
	REQUIRED: COLLECTOR STREET / 1 STREET TREE EVERY 50 LF 489 LF / 50 = 9.78 STREET TREES PROVIDED: 10 STREET TREES	RD PUNTY, NO CAPE
	 B S. MAIN STREET 10' STREETSCAPE BUFFER - 10 D 	
	REQUIRED: STREET FRONT TYPE D / 1 TREE EVERY 40 LF 186 LF / 40 = 4.73 DECIDUOUS CANOPY TREE (TWO UNDERSTORY ORNAMENTAL TREES IN SUBSTITUTE OF ONE DECIDUOUS CANOPY TREE WHEN OVERHEAD UTILITY LINES ARE PRESENT) 4.73 TREES = 9.46 UNDERSTORY ORNAMENTAL TREES PROVIDED: 10 UNDERSTORY ORNAMENTAL TREES	115 REL ROLESVILLE, CONST LA
	LANDSCAPE BUFFERS	8
	© SOUTH BUFFER 25' LANDSCAPE BUFFER - 25 B	6
	REQUIRED: SEMI-OPAQUE TYPE B SEMI-OPAQUE SCREEN FROM GROUND TO 3' MIN. HEIGHT OF 20'	
	NO UNOBSTRUCTED OPENINGS WIDER THAN 20' BETWEEN TREE CANOPIES MIN. 50% OF SHRUBS TO BE EVERGREEN PROVIDED: 8 EVERGREEN TREES 8 EVERGREEN SHRUBS	SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL
	D EAST BUFFER (AGAINST CEMETERY) 25' LANDSCAPE BUFFER - 25 B	EAL:
	REQUIRED: SEMI-OPAQUE TYPE B SEMI-OPAQUE SCREEN FROM GROUND TO 3' MIN. HEIGHT OF 20' NO UNOBSTRUCTED OPENINGS WIDER THAN 20' BETWEEN	DATE 8/28/19 10/1/19 12/19/19 4/23/20
	TREE CANOPIES MIN. 50% OF SHRUBS TO BE EVERGREEN PROVIDED: 6 EVERGREEN TREES 8 EVERGREEN SHRUBS 1 DECIDUOUS TREE	ENTS ENTS MENTS MENTS
NAD83	 EAST BUFFER (AGAINST SCHOOL) 10' LANDSCAPE BUFFER - 10 C 	REVISION R TOR COMME CITY COMMENT WAKE CO COMI ENGINEER
5CALE 60 120	REQUIRED: SPATIAL DEFINITION TYPE C NO UNOBSTRUCTED OPENINGS WIDER THAN 50' BETWEEN TREE CANOPIES	D PER
	PROVIDED: 8 DECIDUOUS TREES	VISE
) ft.	VEHICULAR USE AREAS (VUAs) REQUIRED: VUAs SHALL BE WITHIN 60' OF CANOPY TREES SOREEN OFF SITE VIEWS WITH CONTINUOUS EVEROPEEN	2 REV 5 REV 7 REV
OR	SCREEN OFF-SITE VIEWS WITH CONTINUOUS EVERGREEN HEDGE PROVIDED: 23 CANOPY TREES 232 EVERGREEN SHRUBS	DRAWING SHEET
		L-1.0
CE WITH ALL TOWN OF ROLESVILLE	Ξ,	PROJECT NUMBER
DARDS AND SPECIFICATIONS.		449-19



- DO NOT PRUNE LEADER. PRUNE OR CUT ONLY DEAD OR UNHEALTHY BRANCHES

PROVIDE STAKING IF SPECIFIED. IF STAKING IS PROVIDED, PROTECT TREE WITH BROAD STRAP OR FLEXIBLE TUBING. ALLOW FLEXIBILITY IN STRAPS TO DEVELOP TRUNK TAPER. PROVIDE TURN BUCKLE AND WARNING FLAGS. REMOVE ALL STAKING AND ACCESSORIES WITHIN ONE YEAR FROM PLANTING.

• THE ROOT FLARE SHALL BE PLANTED AT GRADE, NO HIGHER THAN 2" ABOVE GRADE, AND NEVER BELOW GRADE. REMOVE EXCESS SOIL TO EXPOSE THE ROOT FLARE AT GRADE. TREE SHALL BE SET PLUMB

– MULCH DEPTH 3". KEEP MULCH 3" FROM ROOT FLARE AND DO NOT CONTACT STEM

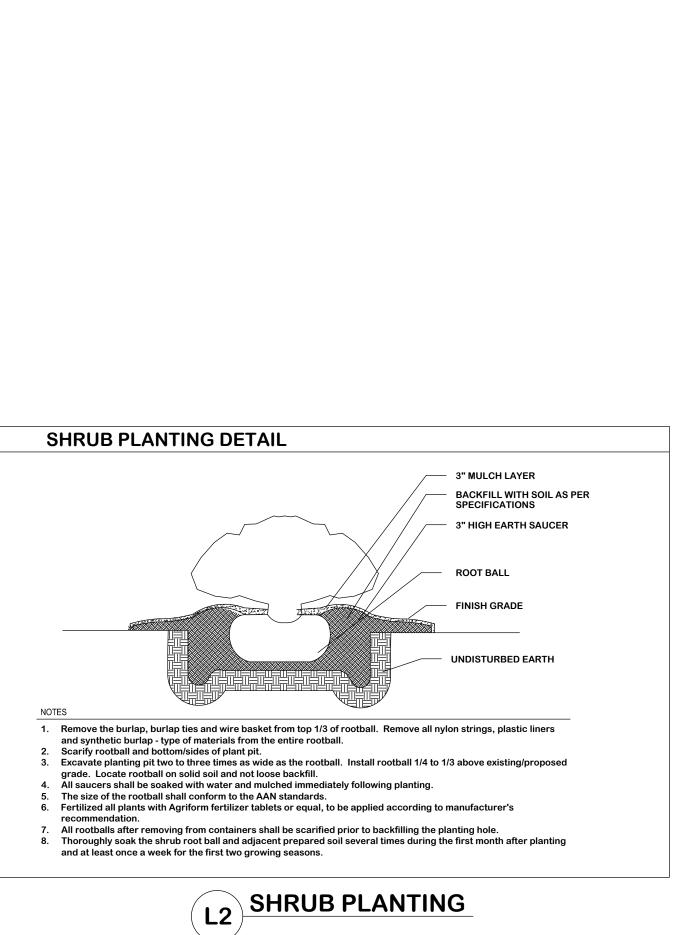
- HIGH QUALITY SOIL MIX AS SPECIFIED - WATER SAUCER, IF SPECIFIED, SHALL RISE NO MORE THAN 3" ABOVE GRADE.

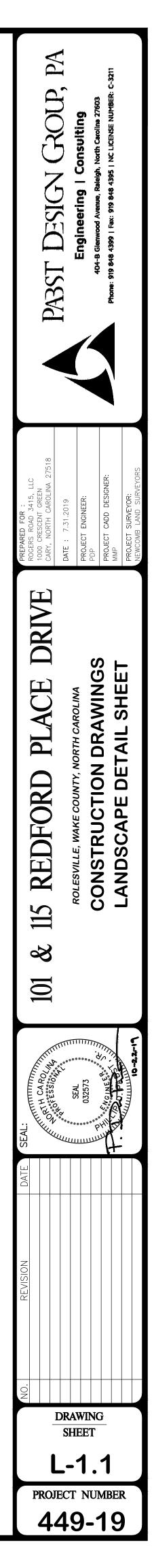
- COMPLETELY REMOVE TOP HALF OF BURLAP, LACING STRAPS, NAILS AND WIRE BASKET AND DISCARD FROM HOLE. ALL SYNTHETIC BURLAP MUST BE REMOVED FROM SIDES OF ROOT BALL. - ROOT BALL SHALL BE PLACED DIRECTLY ON COMPACTED SUBGRADE. HANDLE TREE BY THE ROOT BALL ONLY.

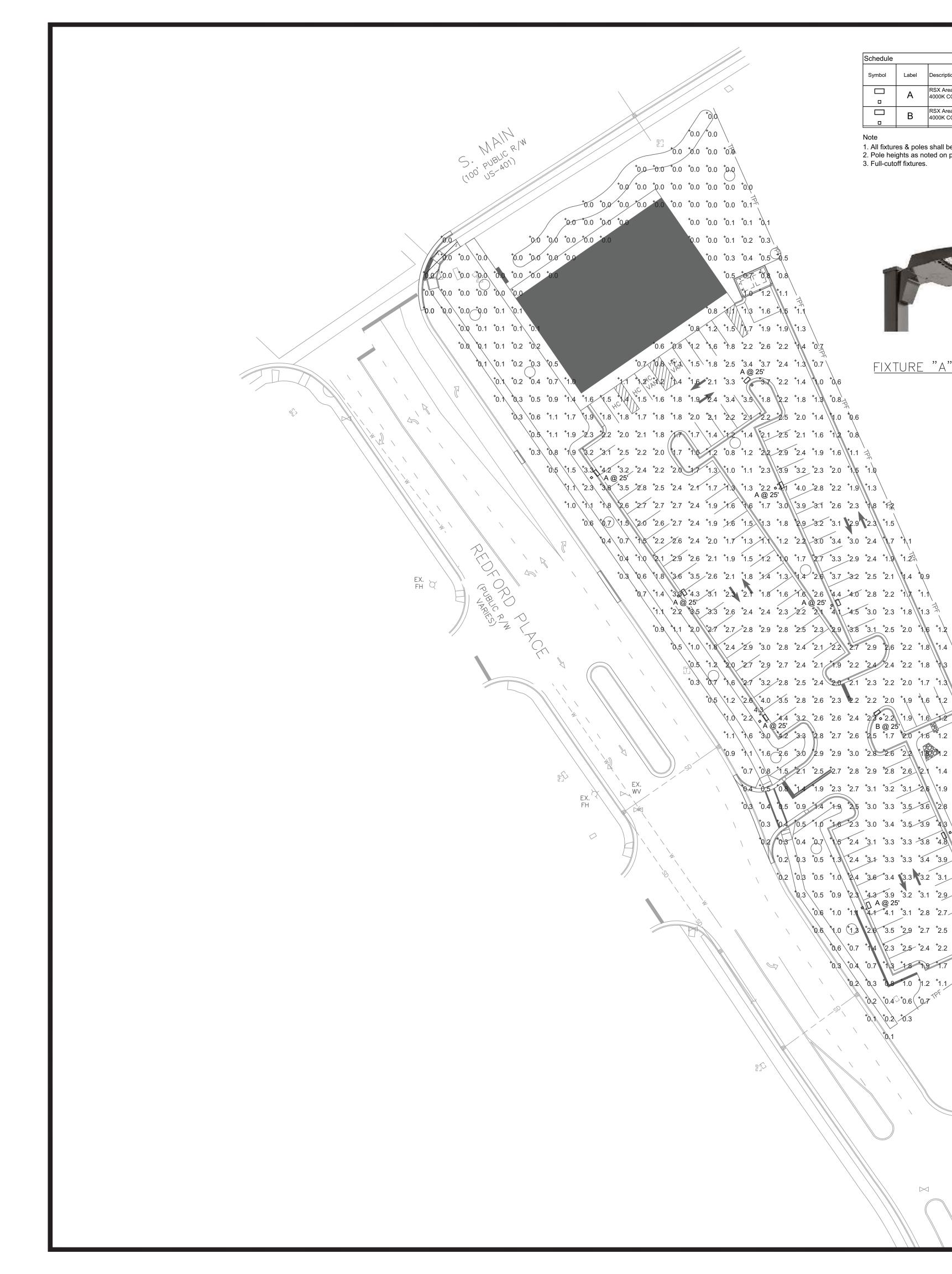
NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE DRAINAGE OF ALL PLANTING PITS.
- (POSITIVE DRAINAGE AWAY FROM PIT) 2. ADHERE TO STANDARDS IN THE CITY TREE
- MANUAL. 3. STREET TREES MUST BE 3" CALIPER AT
- INSTALLATION WITH A 5' MINIMUM FIRST BRANCH HEIGHT. 4. PLANTING SEASON OCTOBER - APRIL.
- 5. A TREE IMPACT PERMIT IS REQUIRED.
- 6. ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREE.









Schedule

Symbol	Label	Description	Catalog Number	Number Lamps	Filename	Lumens per Lamp	LLF	QTY	Wat
•		RSX Area Fixture Size 1 P3 Lumen Package 4000K CCT Type R3 Distribution	RSX1 LED P3 40K R3		RSX1_LED_P3_4 0K_R3.ies	14022	1	8	10
•		RSX Area Fixture Size 1 P3 Lumen Package 4000K CCT Type R5 Distribution	RSX1 LED P3 40K R5		RSX1_LED_P3_4 0K_R5.ies	14396	1	1	10
		-	•	•					

Note

^{^+}0.0 /⁺0.0

⁺0.0 ⁺0.0 ⁺0.1 ⁺0.1 ⁺0.

0.0 ⁺0.0 ⁺0.1 ⁺0.2 ⁺0.3

⁺0.0 ⁺0.3 ⁺0.4 ⁺0.5 ⁺0.5

10

0.8 +1.1 +1.3 +1.6 +1.5

⁺0.8 ⁺1.2 ⁺1.5 ⁺1.7 ⁺1.9 ⁺1.9 ⁺1.3

A @ 25

+0.5 +1.2 20 +2.7 +2.9 +2.7 +2.4 +2.1 +7.9 +2.2 +2.4 +2.2 +1.8 +3 +1.0

+0.3 +0.7 +1.6 +2.7 +3.2 +2.8 +2.5 +2.4 +2.9 +2.1 +2.3 +2.2 +2.0 +1.7 +1.3 +1.0

⁺0.9 ⁺11 ⁺1.6 ⁺2.6 ⁺3.0 2.9 ⁺2.9 ⁺3.0 ⁺2.8 ⁺2.6 ⁺2.2 ⁺100 1.2 ⁺0.9 ⁺0.7 ⁺0.5

↓ ⁺0.7 ⁺0.8 ⁺1.5 ⁺2.1 ⁺2.5 ⁺2.7 ⁺2.8 ⁺2.9 ⁺2.8 ⁺2.6 ⁺2.1 ⁺1.4 ⁺0.9 ⁺0.7 ⁺0.5

0.4 *0.5 *0.8 *1.4 ***1.9 **2.3 *****2.7 *****3.1 *****3.2 *****3.1 *****2.6 *****1.9 *****1.1 *****0.8 *****0.6 *****0.4

+0.3 +0.4 +0.5 +0.9 +1.4 +1.9 +2 5 +3.0 +3.3 +3.5 +3.6 +2.8 +1.6 +1.2 +0.9 +0.5

+0.2 +0.3 +0.5 +1.3 +2.4 +3.1 +3.3 +3.3 +3.4 +3.9 +3.6 +1.7 +0.6 +0.3 +0.2 +0.1

to 2 to 3 to 5 to 1.0 to 4 to 3.4 to 3.3 to 3.2 to 1 to 3.0 to 7.7 to 3 to 2 to 1

to.6 ty.0 (1.3 t2.0 t3.5 t2.9 t2.7 t2.5 t1.9 t1.3 t0.7 t0.4 t0:1

⁺0.6 ⁺0.7 ⁺14 ⁺2.3 ⁺2.5 ⁺2.4 ⁺2.2 ⁺1.8 ⁺1.2 ⁺0.7 ⁺0.3

 $\triangleright \lhd$

+0.3 +0.4 +0.7 +1 3 +18 + 9 +1.7 +1.4 +1.8 +

0,3 0,8 1.0 1.2 ⁺1.1 ⁺1.0

All fixtures & poles shall be "black".
 Pole heights as noted on plans, 25' typical.
 Full-cutoff fixtures.



FIXTURE "A" & "B"

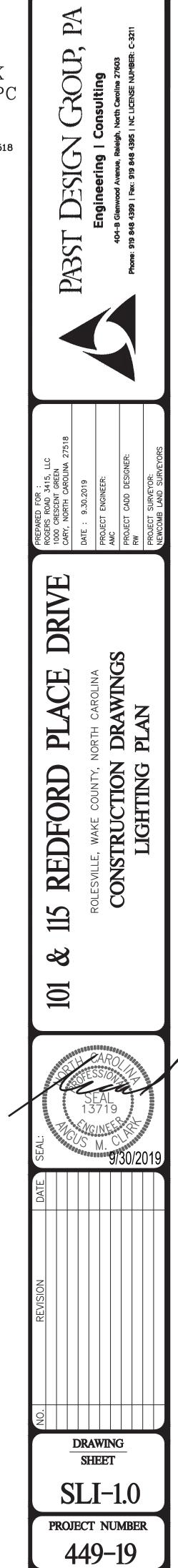
age	
9.44	
9.44	

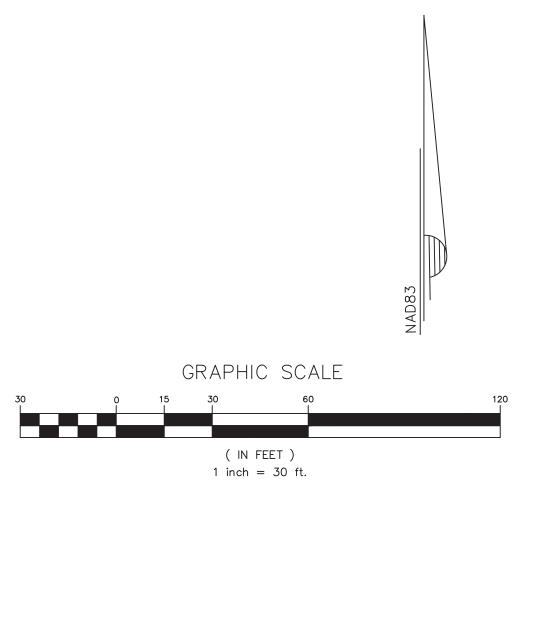
Statistics								
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min		
PARKING LOT	+	2.4 fc	4.7 fc	1.0 fc	4.7:1	2.4:1		
PROPERTY LINE	+	0.4 fc	1.0 fc	0.0 fc	N/A	N/A		

1. Based on initial footcandle levels.



ENGINEERING PC NCBEES #C–2726 543 KEISLER DRIVE SUITE 101 CARY NORTH CAROLINA 27518 919 859.2674 919 859.2675 FAX







FIELD BRICK, TYPICAL - BRICK 1 ACCENT BRICK DETAILS, TYPICAL - BRICK 2 - MASONRY BASE -ARRISCRAFT STONE

MATERIAL SELECTIONS BASE AND TRIM ARRISCRAFT

SATIN CAFE

LEE BRICK 740 'SCOTSDALE'

LEE BRICK 874 'HATTERAS'

STOREFRONT

BRICK 1

BRICK 2

BASE AND TRIM

GREEN ACCENTS

MODULAR SMOOTH

MODULAR SAND FINISH

MATCH BASE & BRICK 1

CLEAR ANODIZED ALUMINUM

METAL ROOFING DMI METALS - HEMLOCK GREEN HARDI-TRIM AND HARDI-PANEL

BRICK 1

BRICK 2

RENAISSANCE MASONRY UNIT

- MATCH BRICK 2

- EIFS ARCHES OVER WINDOW

- ANODIZED SILVER

STOREFRONT OPENING

- BRICK 1 - ACCENT BRICK, TYPICAL - BRICK 2

- FIELD BRICK, TYPICAL

- DECORATIVE EIFS PILASTER CAP -GREEN AND GRAY

- DECORATIVE EIFS BRACKET - GRAY

DECORATIVE EIFS ROOF PARAPET -GRAY

STUDIO W BETHL REDFOOT (SAXAPAHAV HAM, NOR

DENTISTRY BUILDING

FAMILY OFFICE

TRIANGLE MEDICAL

51430

CORPORATE STAMP

ARCHITECT'S STAMP

SCALE

DESIGNED

DRAWN

DRAWINGS

DRAWING NO

AS NOTED

RSR

RSR

No Rev./Submissons Date

NEIGHBOR 07/17/19

PROJECT NO

CHECKED

DATE

BUILDING

ELEVATIONS

A1.0

190701

17 OCT 19

RSR

L

101 REDFORD PLACE DRIVE ROLESVILLE, NORTH CAROLINA





FIRST FLOOR



0 1 2 3 4 5

- MATCH BRICK 2

- EIFS ARCHES OVER WINDOW

- ANODIZED SILVER

- STOREFRONT OPENING

- BRICK 1 - ACCENT BRICK, TYPICAL - BRICK 2

- FIELD BRICK, TYPICAL

- DECORATIVE EIFS BRACKET - DECORATIVE EIFS PILASTER CAP -GREEN AND GRAY

- DECORATIVE EIFS ROOF PARAPET

FIELD BRICK, TYPICAL - BRICK 1 ACCENT BRICK DETAILS, TYPICAL - BRICK 2

- MATCH BRICK 2

- EIFS ARCHES OVER WINDOW

DECORATIVE EIFS ROOF PARAPET

- DECORATIVE EIFS PILASTER CAP -GREEN AND GRAY

- DECORATIVE EIFS BRACKET - GRAY

- FIELD BRICK, TYPICAL

- ACCENT BRICK, TYPICAL

- BRICK 1

- BRICK 2

-GRAY

STOREFRONT OPENING - ANODIZED SILVER

- MASONRY BASE

-ARRISCRAFT STONE

MATERIAL SELECTIONS BASE AND TRIM ARRISCRAFT

RENAISSANCE MASONRY UNIT SATIN CAFE

BRICK 1

BRICK 1

BRICK 2

BASE AND TRIM

METAL ROOFING

LEE BRICK 740 'SCOTSDALE' MODULAR SMOOTH

BRICK 2

LEE BRICK 874 'HATTERAS'

MODULAR SAND FINISH STOREFRONT

MATCH BASE & BRICK 1

METAL ROOFING DMI METALS - HEMLOCK GREEN HARDI-TRIM AND HARDI-PANEL

CLEAR ANODIZED ALUMINUM

FAMILY OFFICE L **TRIANGLE MEDICAL**

DENTISTRY BUILDING

51430

CORPORATE STAMP

ARCHITECT'S STAMP

SCALE

DESIGNED

DRAWN

DRAWINGS

DRAWING NO

AS NOTED

RSR

RSR

PROJECT NO

CHECKED

DATE

BUILDING

ELEVATIONS

A1.1

190701

RSR

101 REDFORD PLACE DRIVE ROLESVILLE, NORTH CAROLINA

STUDIO W BETHL

REDFOOT (SAXAPAHAV HAM, NOR

