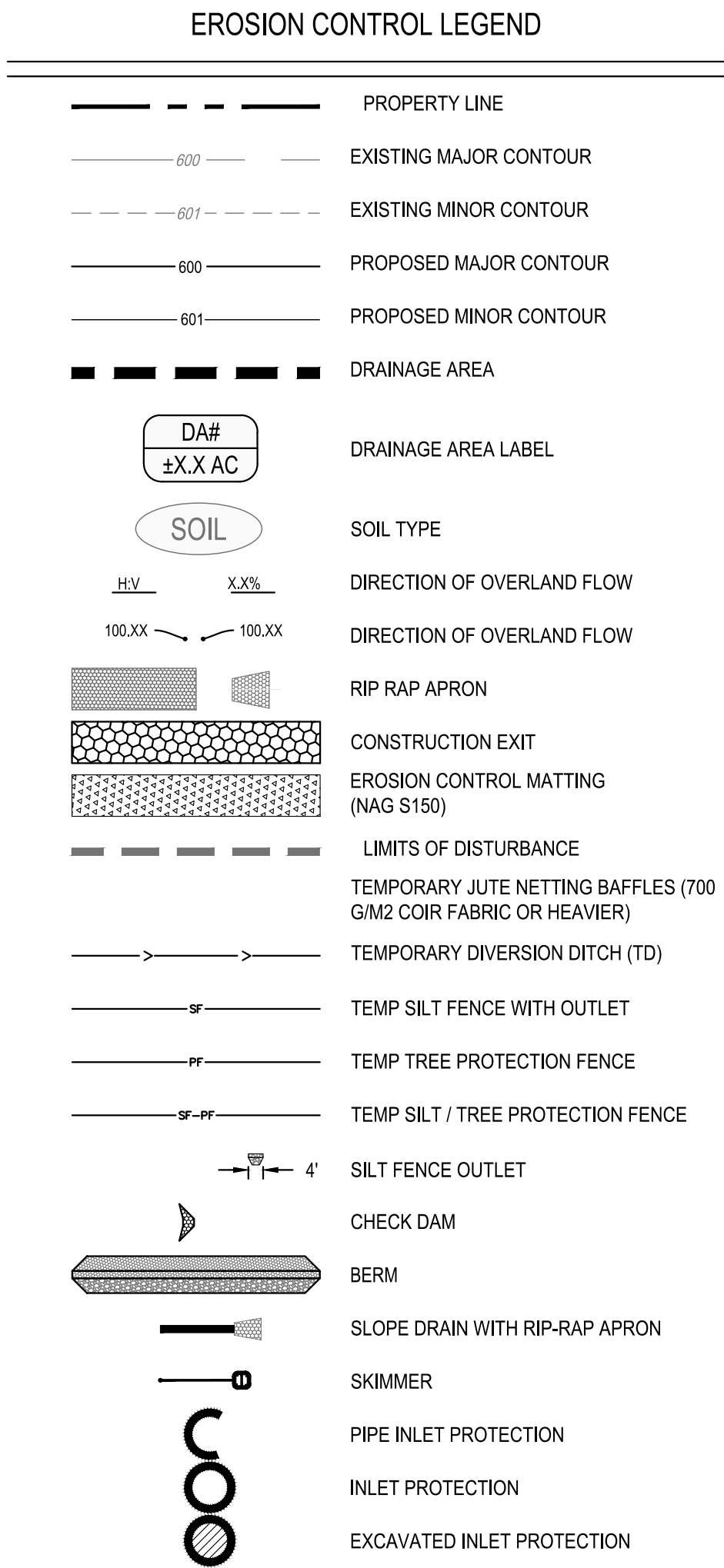
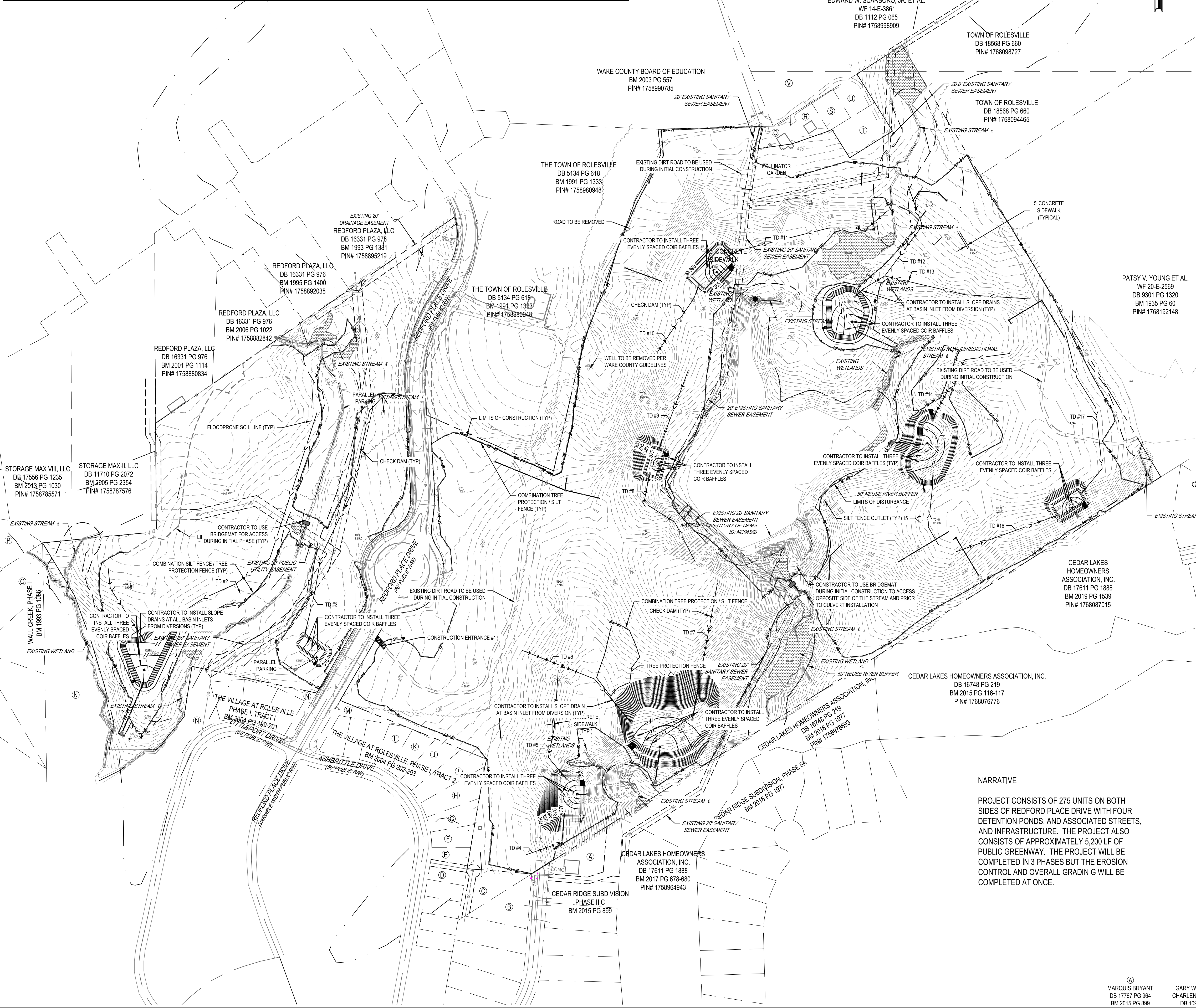


SKIMMER BASIN SUMMARY																	
BASIN	DRAINAGE	DENUDED	RUNOFF	SYSTEM	25-YEAR	BASIN DIMENSIONS			TOP OF	WEIR	AREA	AREA	VOLUME	VOLUME	SKIMMER	SKIMMER	DEWATER
NUMBER	AREA	AREA	COEFF.	INTENSITY	PEAK FLOW	DEPTH	LENGTH	WIDTH	DAM EL.	LENGTH	REQUIRED	PROVIDED	REQUIRED	PROVIDED	SIZE	ORIFICE	TIME
	(AC)	(AC)		(IN/HR)	(CFS)	(FT)	(FT)	(FT)		(FT)	(SF)	(SF)	(CF)	(CF)	(IN)	DIA. (IN)	(DAYS)
SB #1	5.70	5.70	0.50	7.93	22.6	2.0	112	56	390	6	6,240	6,272	10,260	10,624	4	1.50	3.42
SB #2	10.60	10.60	0.50	7.93	42.0	2.0	156	78	357	18	11,604	12,168	19,080	21,624	4	2.00	3.58
RB #3	3.30	3.30	0.50	7.93	13.1	2.0	100	40	390	6	3,612	4,000	5,940	6,416	4	1.00	4.46
SB #4	4.70	4.70	0.50	7.93	18.6	2.0	104	52	386	10	5,145	5,408	8,460	9,040	4	1.25	4.06
SB #5	6.60	6.60	0.50	7.93	26.2	2.0	124	62	371	18	7,225	7,688	11,880	13,240	4	1.50	3.96
SB #6	3.30	3.30	0.50	7.93	13.1	2.0	88	44	377	10	3,612	3,872	5,940	6,266	3	1.25	3.29
SB #7	7.10	7.10	0.50	7.93	28.2	2.0	128	64	388	18	7,772	8,192	12,780	14,176	4	1.75	3.13
SB #8	4.40	4.40	0.50	7.93	17.4	2.0	100	50	392	10	4,817	5,000	7,920	8,296	4	1.25	3.80
SB #9	3.30	3.30	0.50	7.93	13.1	2.0	88	44	392	6	3,612	3,872	5,940	6,266	4	1.00	4.46

CID-23-06 - V1 - Part
2 of 3 of Plan set

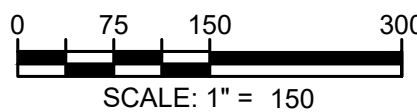


- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

NARRATIVE

PROJECT CONSISTS OF 275 UNITS ON BOTH SIDES OF REDFORD PLACE DRIVE WITH FOUR DETENTION PONDS, AND ASSOCIATED STREETS, AND INFRASTRUCTURE. THE PROJECT ALSO CONSISTS OF APPROXIMATELY 5,200 LF OF PUBLIC GREENWAY. THE PROJECT WILL BE COMPLETED IN 3 PHASES BUT THE EROSION CONTROL AND OVERALL GRADING WILL BE COMPLETED AT ONCE.

TOTAL DISTURBED AREA
±59.6 ACRES



MARQUIS BRYANT
DB 17767 PG 964
RM 2015 PG 899

GARY W. CHARLEN
DR 106

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

PER TOWN OF ROLESVILLE COMMENT
06/01/2023
INITIAL SUBMITTAL
04/03/2023

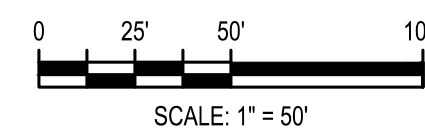
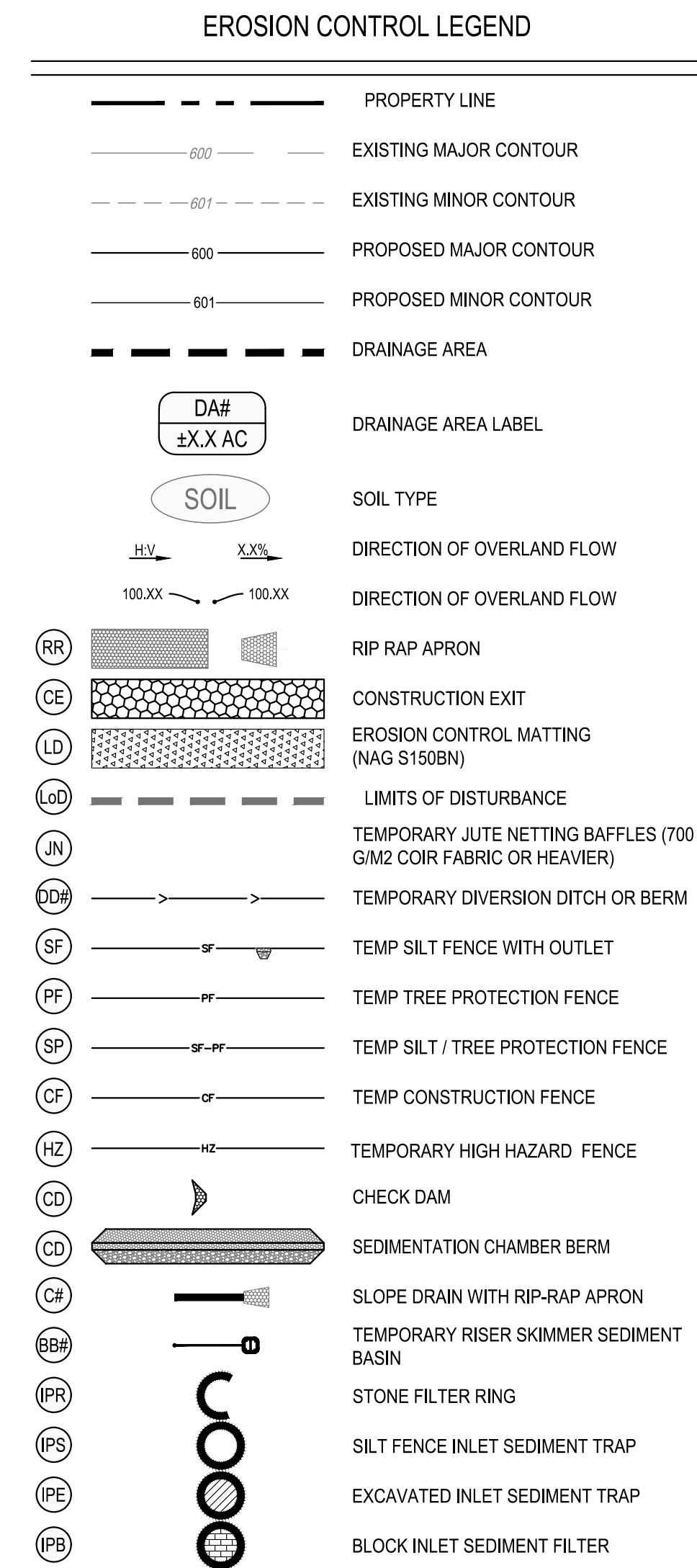
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MORRISVILLE / NORTH CAROLINA / 27560

OVERALL PHASE 1 EROSION
CONTROL PLAN

PRELIMINARY
ENGINEER
FEDRA M. FERNANDEZ
NOT FOR
CONSTRUCTION
FILE NUMBER:
8430-03
DATE: 06/01/2023
C5-0



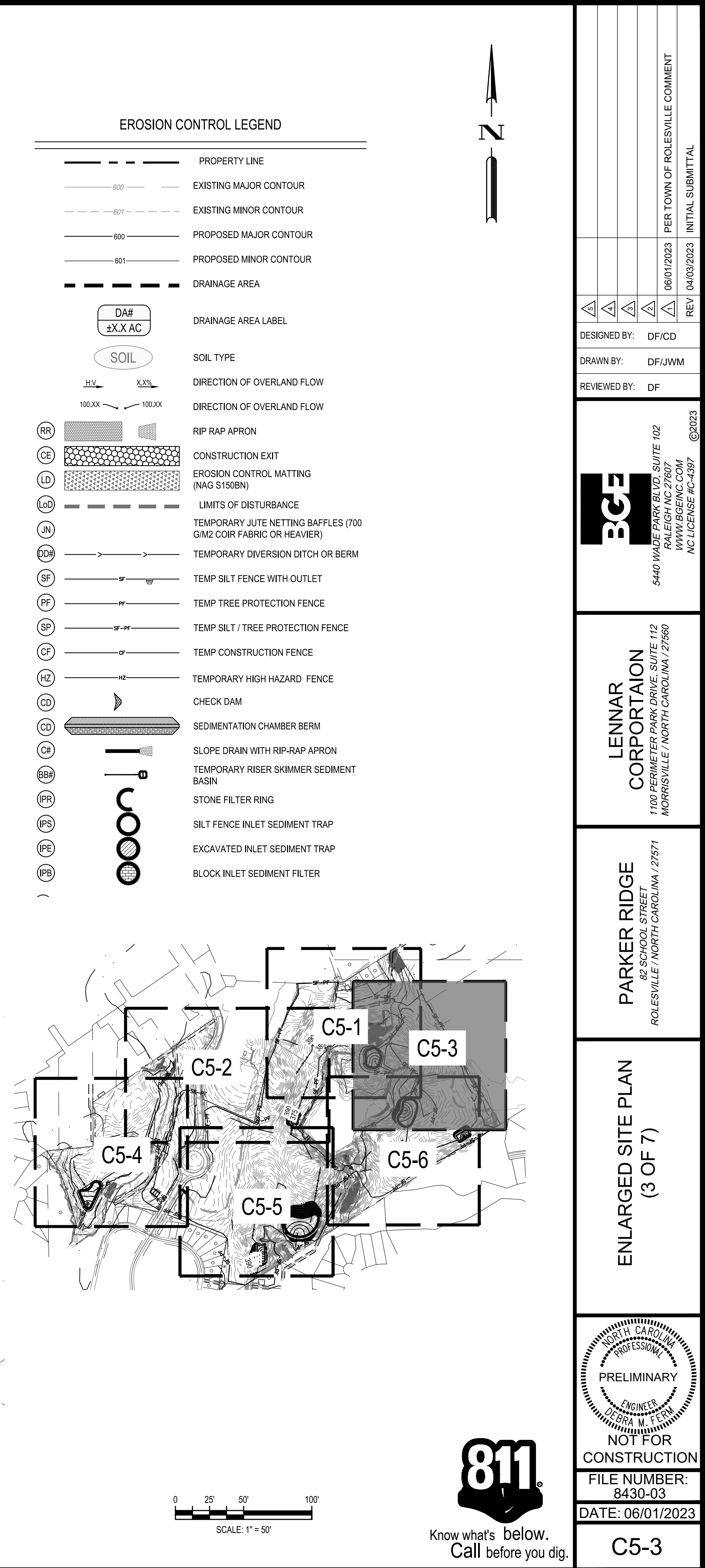
Know what's below.
Call before you dig.

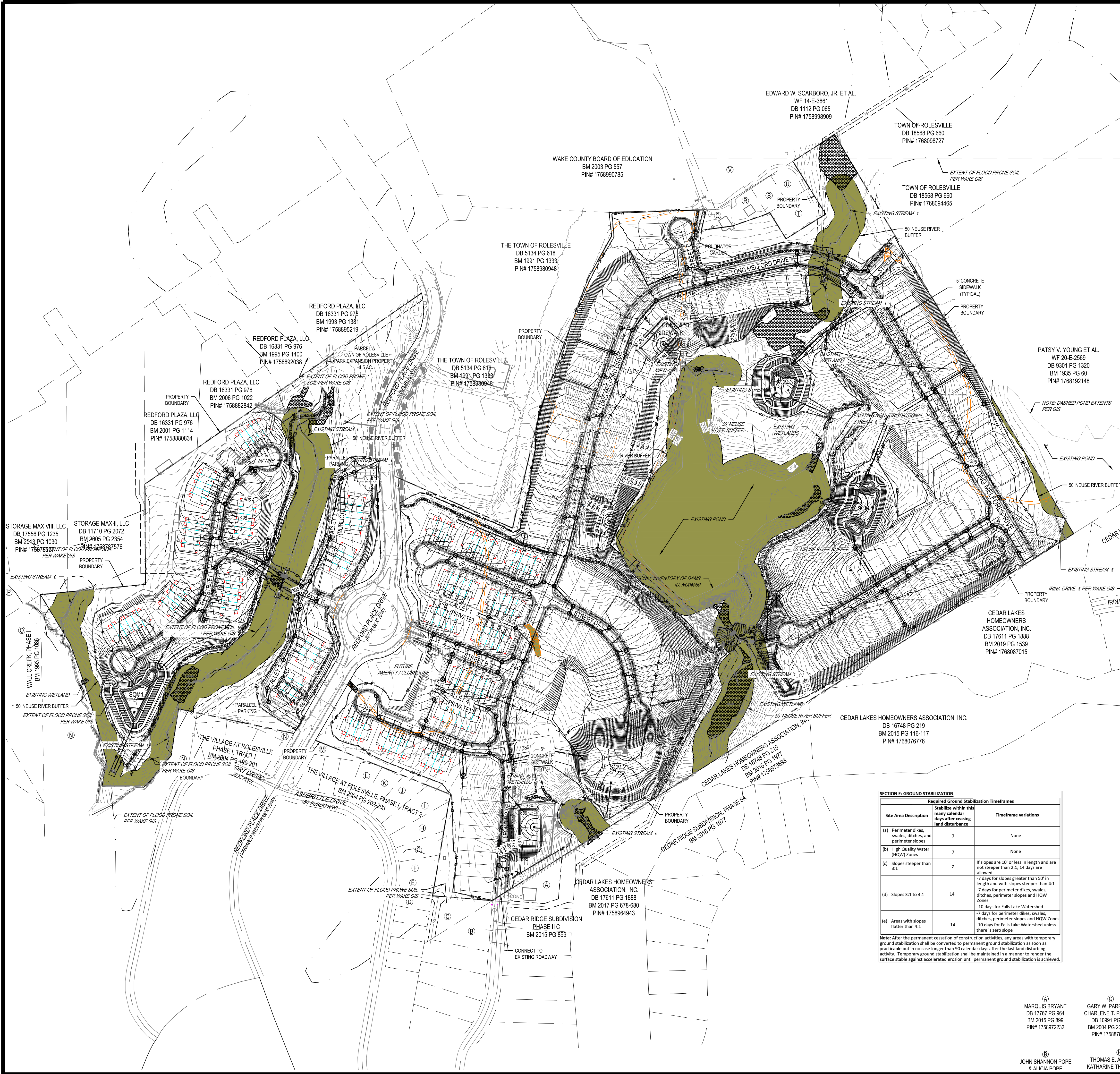
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ENLARGED PHASE 1 EROSION CONTROL PLAN (2 OF 6)	PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	LENNAR CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	BGE 5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 ATTENTION: CIVIL ENGINEERING NC LICENSE PC-4397 ©2023	DESIGNED BY:	DF/CD	06/01/2023	PER TOWN OF ROLESVILLE COMMENT
				DRAWN BY:	DF/JWM		
				REVIEWED BY:	DF		
				REV	04/03/2023	INITIAL SUBMITTAL	
C5-2							



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EROSION CONTROL LEGEND	
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DRAINAGE AREA
	DRAINAGE AREA LABEL
	SOIL TYPE
	DIRECTION OF OVERLAND FLOW
	RIP RAP APRON
	CONSTRUCTION EXIT
	EROSION CONTROL MATTING (NAG S150)
	LIMITS OF DISTURBANCE
	TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
	TEMPORARY DIVERSION DITCH OR BERM
	TEMP SILT FENCE WITH OUTLET
	TEMP TREE PROTECTION FENCE
	TEMP SILT / TREE PROTECTION FENCE
	TEMP CONSTRUCTION FENCE
	TEMPORARY HIGH HAZARD FENCE
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	STONE FILTER RING
	SILT FENCE INLET SEDIMENT TRAP
	EXCAVATED INLET SEDIMENT TRAP
	BLOCK INLET SEDIMENT FILTER

GENERAL EROSION CONTROL CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS. ADDITIONS, DELETIONS, AND MODIFICATIONS SHOULD BE MADE AS APPROPRIATE.

- PHASE 1:
- OBTAIN GRADING/ EROSION CONTROL PLAN APPROVAL FROM THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
 - THE CONTRACTOR SHALL SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH CITY EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION AND IS SUBJECT TO FINE.
 - INSTALL SWPPP SIGN AND TEMPORARY CONSTRUCTION ENTRANCE.
 - CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE, SILT FENCE AND INLET PROTECTION AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
 - SCHEDULE AN ON-SITE INSPECTION BY CITY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
 - THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- PHASE 2:
- BEGIN EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL INLET PROTECTION DEVICES, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
 - AS EARTHWORK ALLOWS, BEGIN INSTALLING STORM DRAINAGE STRUCTURES AND UTILITIES. AS STORM DRAINAGE IS INSTALLED, CONTRACTOR SHALL PLACE INLET PROTECTION ON ALL STORM STRUCTURES. NO PIPES SHALL BE LEFT EXPOSED AT THE CLOSE OF BUSINESS EACH DAY.
 - DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
 - GRADED SLOPES AND FILLS ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER SUFFICIENT TO RESTRAIN EROSION WITHIN 7 CALENDAR DAYS AFTER THE COMPLETION OF ANY PHASE OF GRADING. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 CALENDAR DAYS.
 - ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPT. OF AGRICULTURE, CITY OF CHARLOTTE EROSION CONTROL ORDINANCE, AND THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.
 - AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS AND LANDSCAPE PLAN AND DETAILS.
 - CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

TOTAL DISTURBED AREA
±59.6 ACRES

0 75' 150' 300'
SCALE: 1" = 150'



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DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF
DATE:	06/01/2023
REV:	04/03/2023
PER TOWN OF ROLEVILLE COMMENT	INITIAL SUBMITTAL

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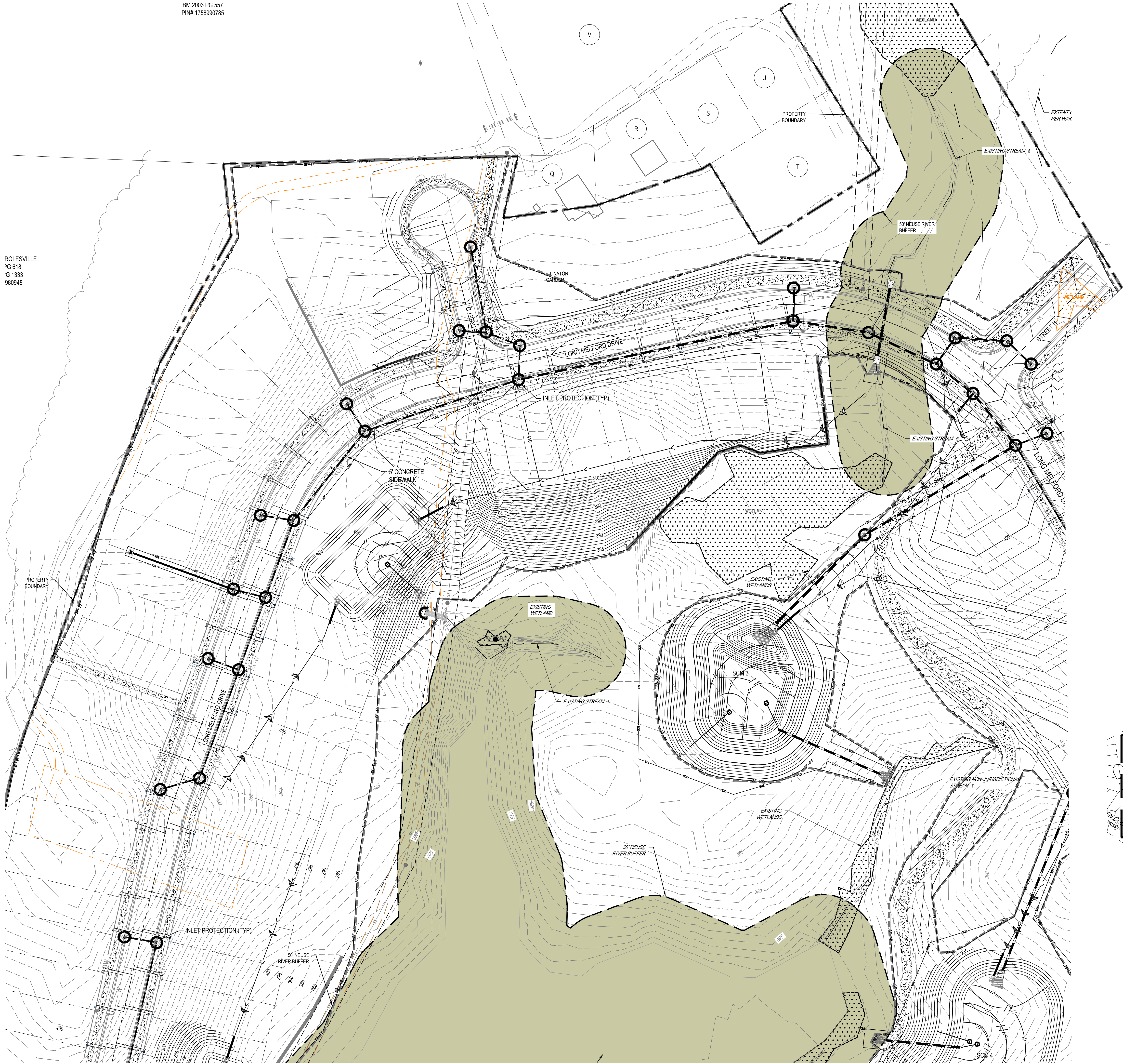
PARKER RIDGE
82 SCHOOL STREET
ROLEVILLE / NORTH CAROLINA / 27571

OVERALL PHASE 2 EROSION
CONTROL PLAN

PRELIMINARY
NOT FOR
CONSTRUCTION
FILE NUMBER:
8430-03
DATE: 06/01/2023
C5-7

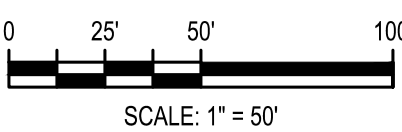
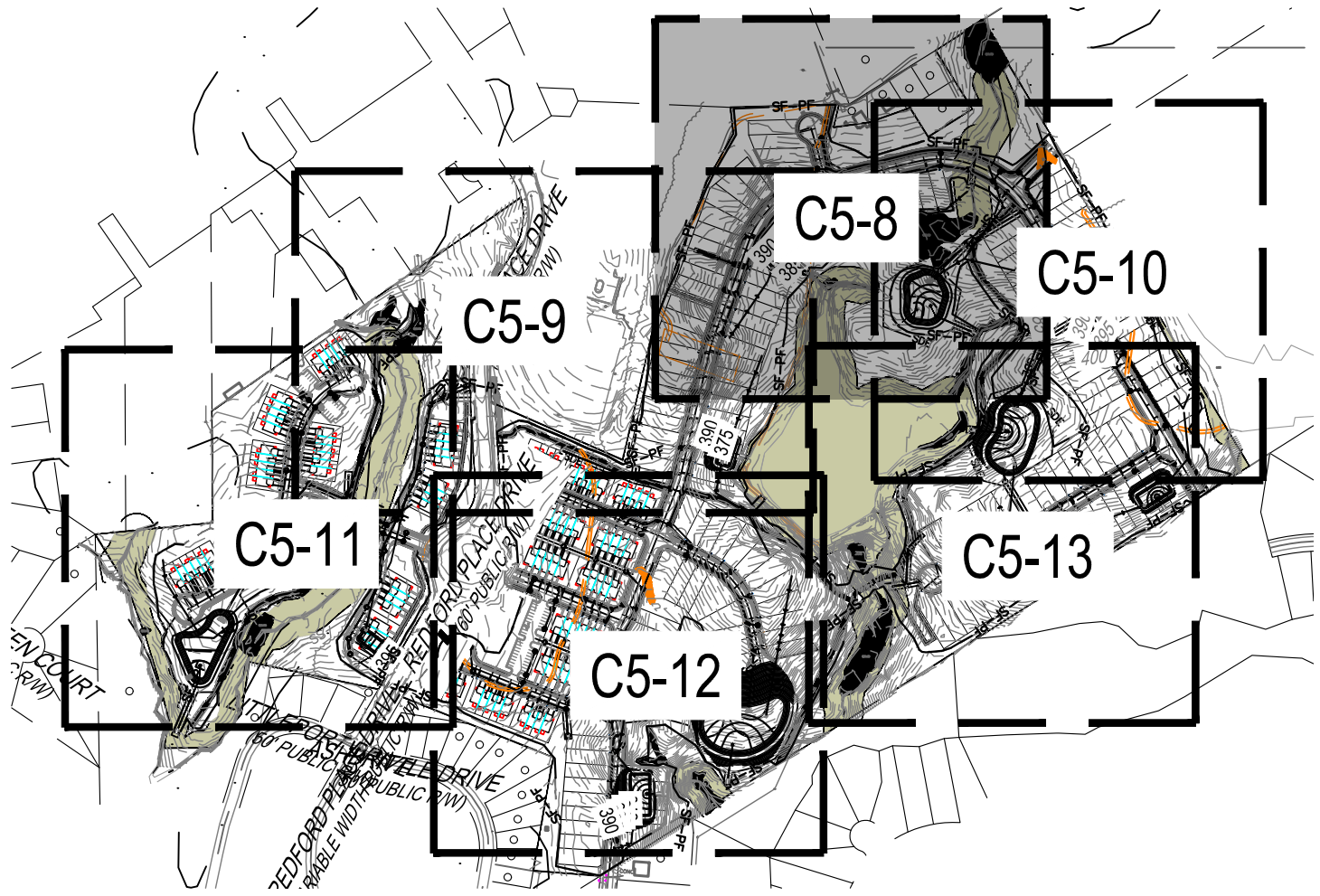
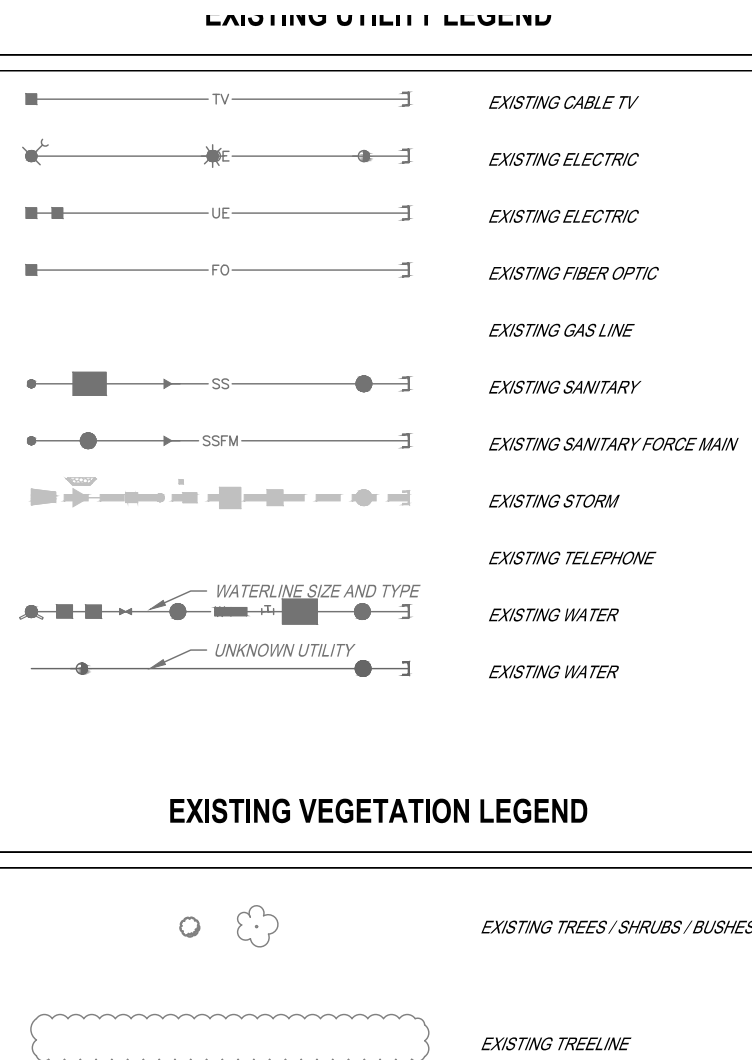
ROLESVILLE
2'G 618
1'G 1333
980948

BM 2003 PG 567
PIN# 175890785



SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQP) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



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DRAWN BY: DF/JWM

REVIEWED BY: DF

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82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2
EROSION CONTROL
PLAN (1 OF 6)

NORTH CAROLINA
PROFESSIONAL
ENGINEER
PEDRA M. FERNANDEZ

PRELIMINARY

NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 06/01/2023

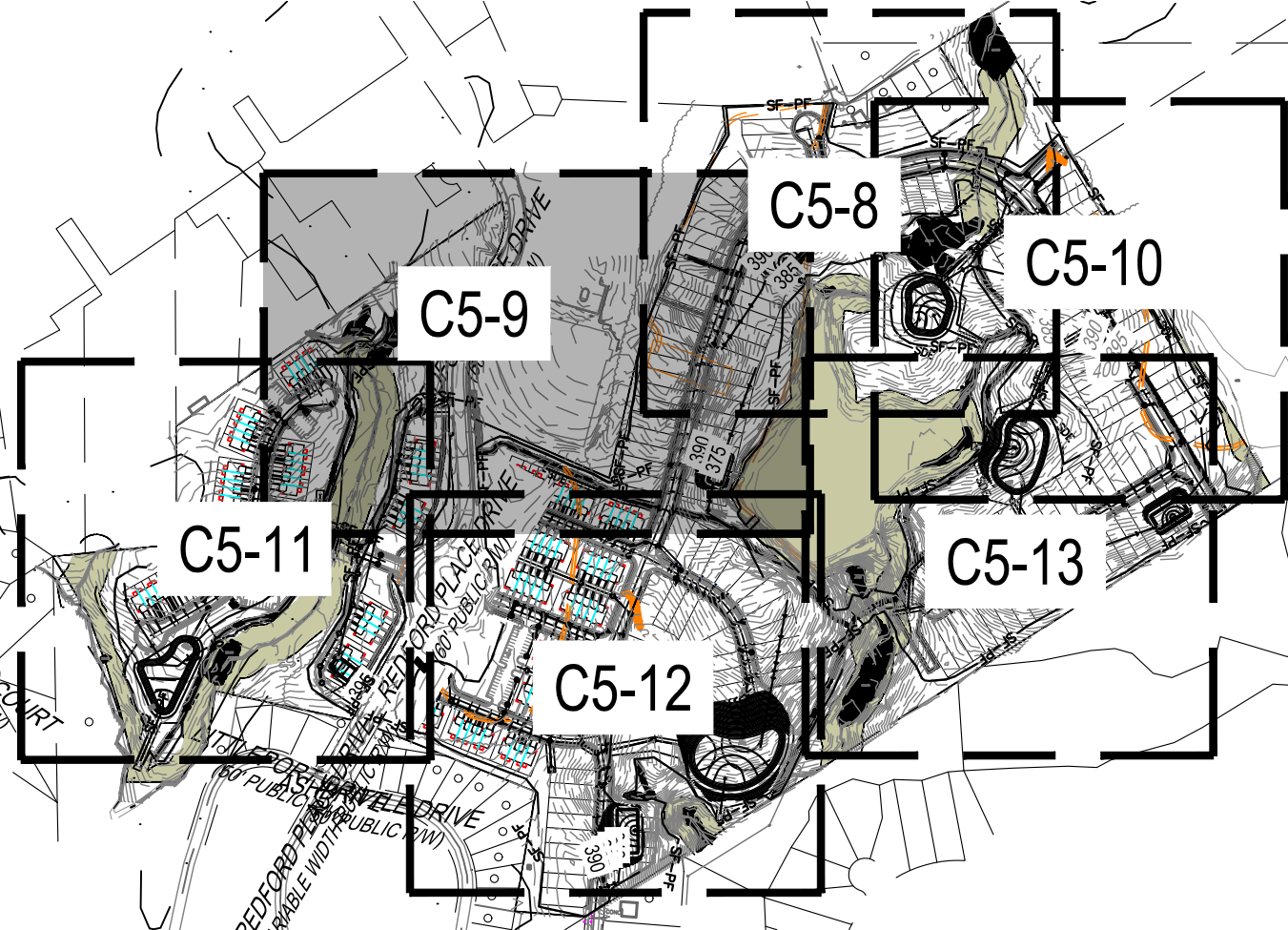
C5-8

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SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQP) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
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DRAWN BY: DF/JWM

REVIEWED BY: DF

811

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0 25' 50' 100'

SCALE: 1" = 50'

PER TOWN OF ROLESVILLE COMMENT

06/01/2023

REV

04/03/2023

INITIAL SUBMITTAL

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PARKER RIDGE

82 SCHOOL STREET

ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2

EROSION CONTROL

PLAN (2 OF 6)

FILE NUMBER:

8430-03

DATE:

06/01/2023

C5-9

PROFESSIONAL

ENGINEER

EDWARD M. FERRARO

NOT FOR CONSTRUCTION

PRELIMINARY

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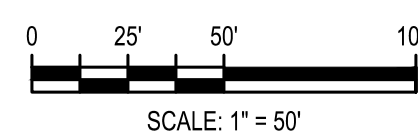
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Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



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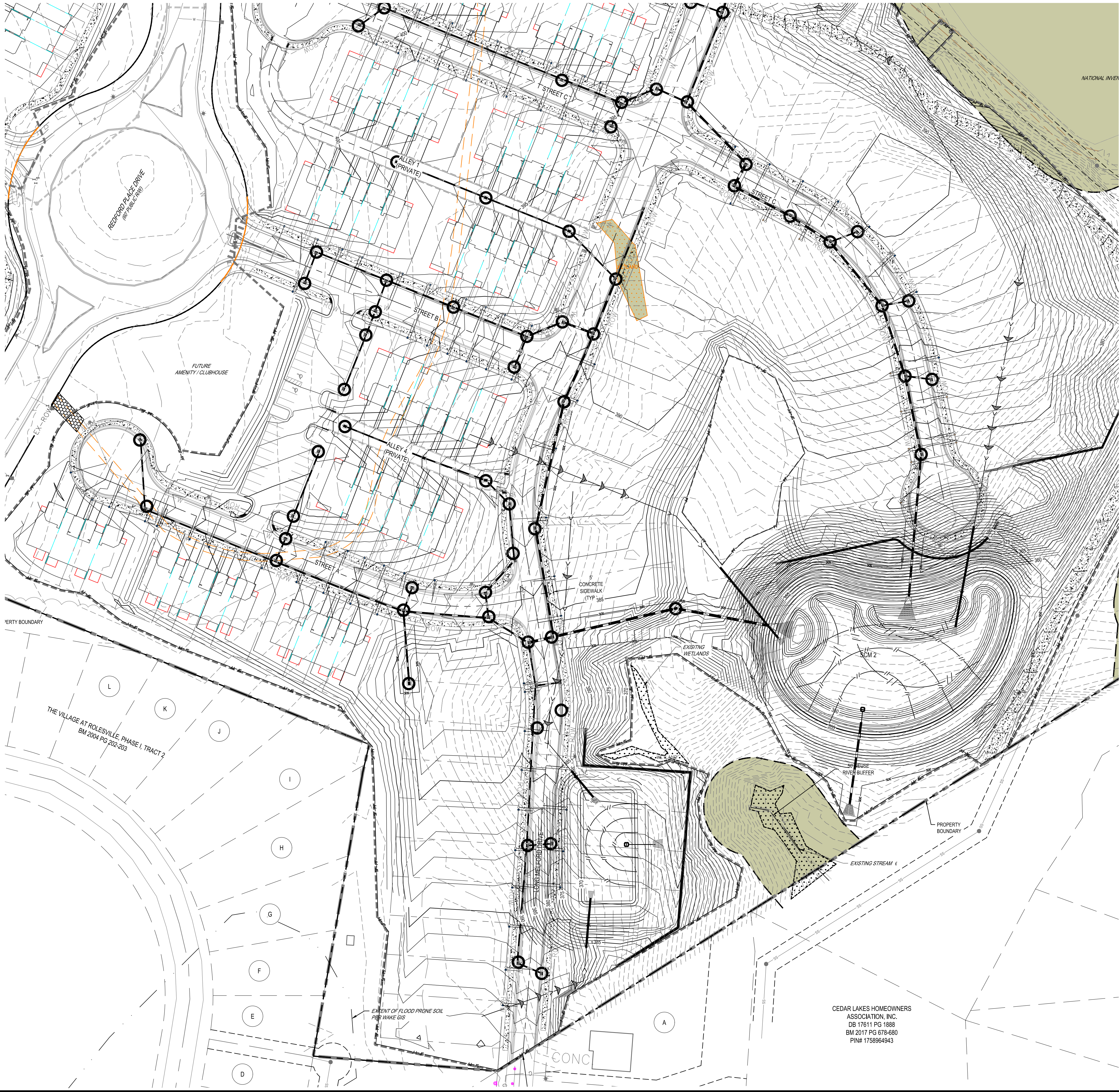
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DRAWN BY:	DF/JWM
REVIEWED BY:	DF

5	4	3	2	1	REV
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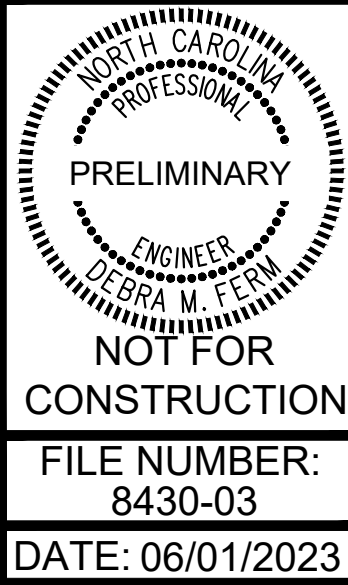
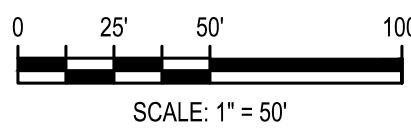
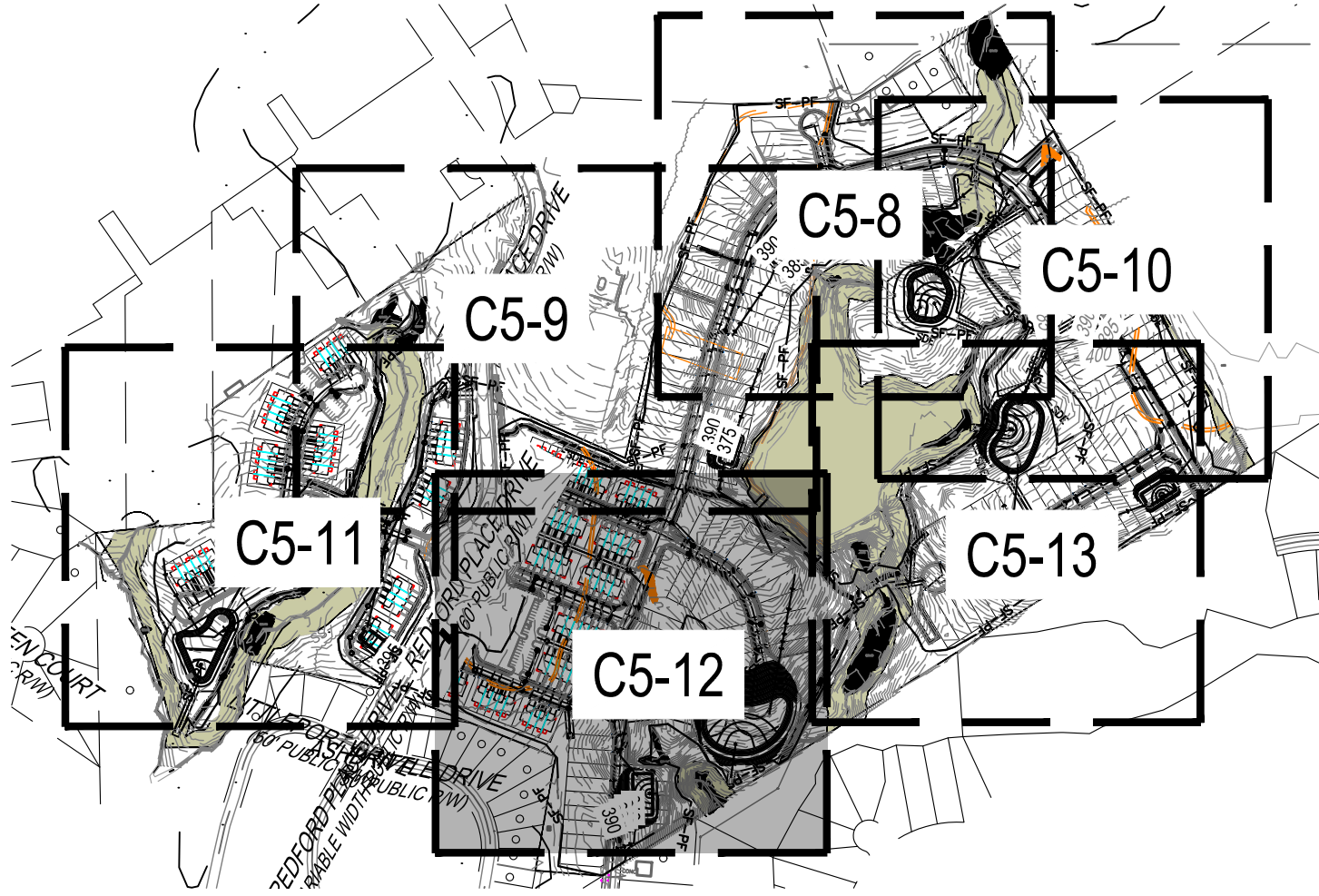
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04/03/2023	INITIAL SUBMITTAL

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SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

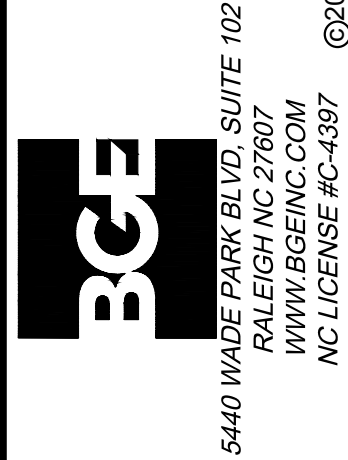
Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



ENLARGED PHASE 2
EROSION CONTROL
PLAN (5 OF 6)

PARKER RIDGE
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DRAWN BY: DF/JWM
REVIEWED BY: DF

△	△	△	△	△	REV	06/01/2023	PER TOWN OF ROLESVILLE COMMENT	INITIAL SUBMITTAL
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C5-12

