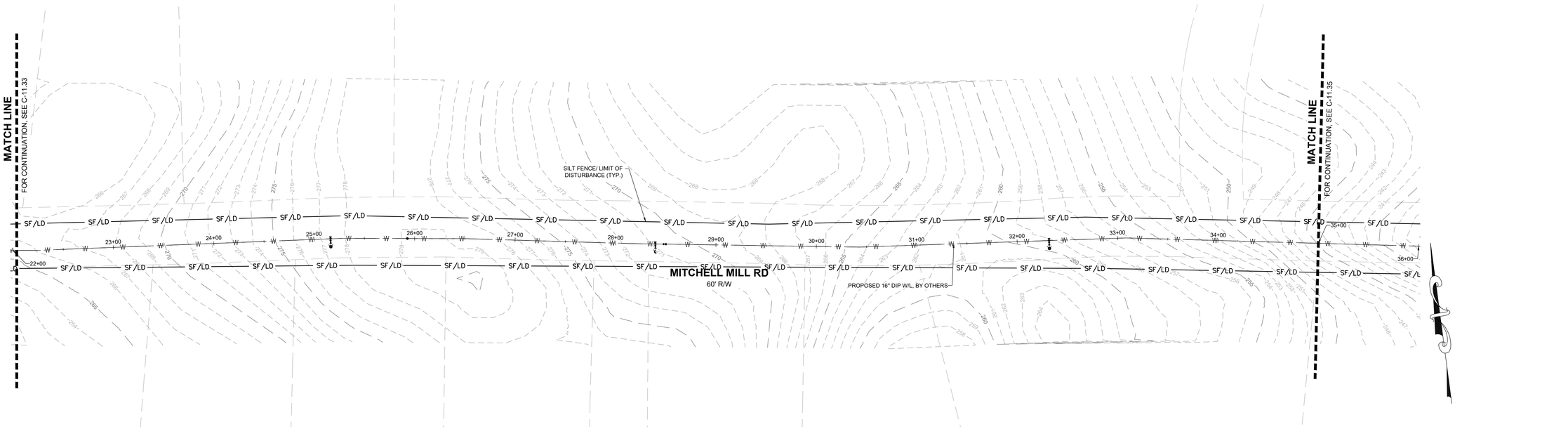
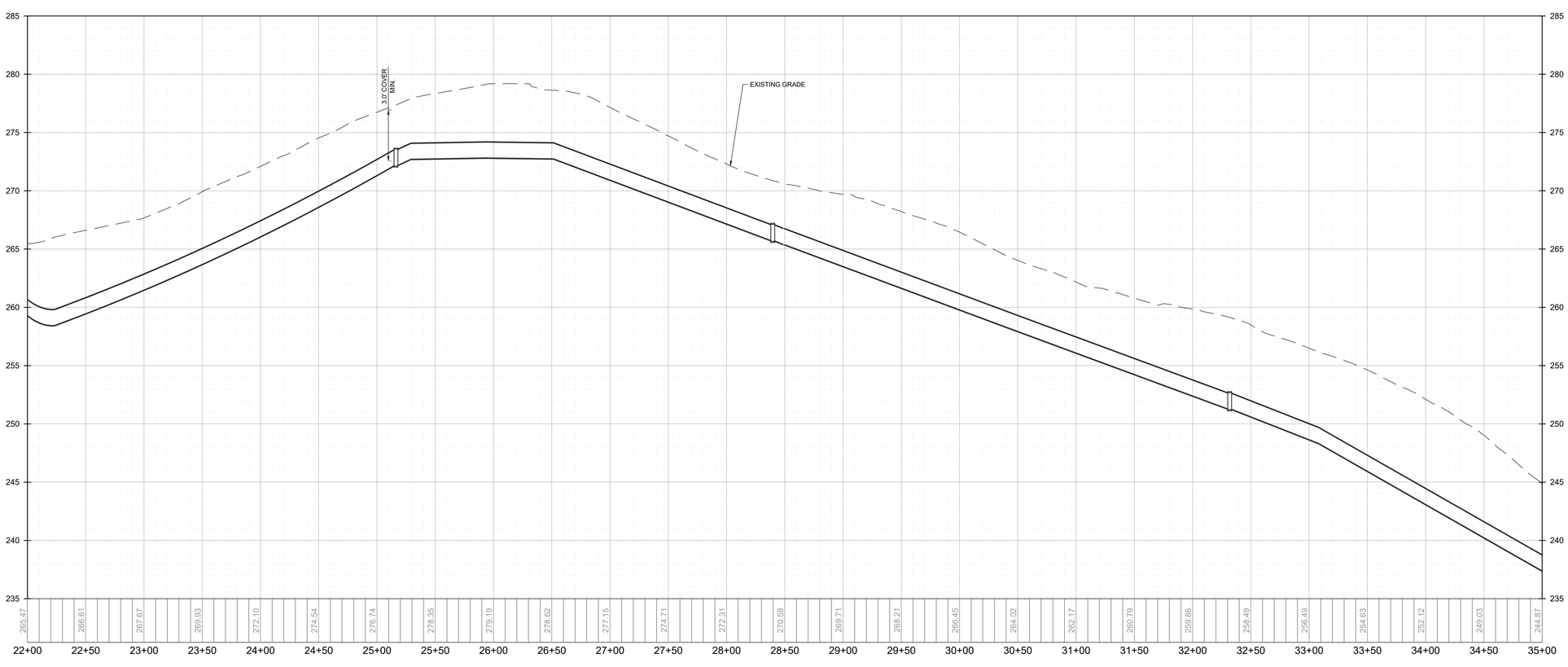
PROGRESS PLOT DATE: 8/29/2025



OFF-SITE WATER MAIN STATION 22+00 - 35+00 - PLAN
HORIZONTAL: 1" = 50'

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.



OFF-SITE WATER MAIN STATION 22+00 - 35+00 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM
THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.
CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____

PUBLIC
SEWER COLLECTION / EXTENSION SYSTEM
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CITY OF RALEIGH
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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

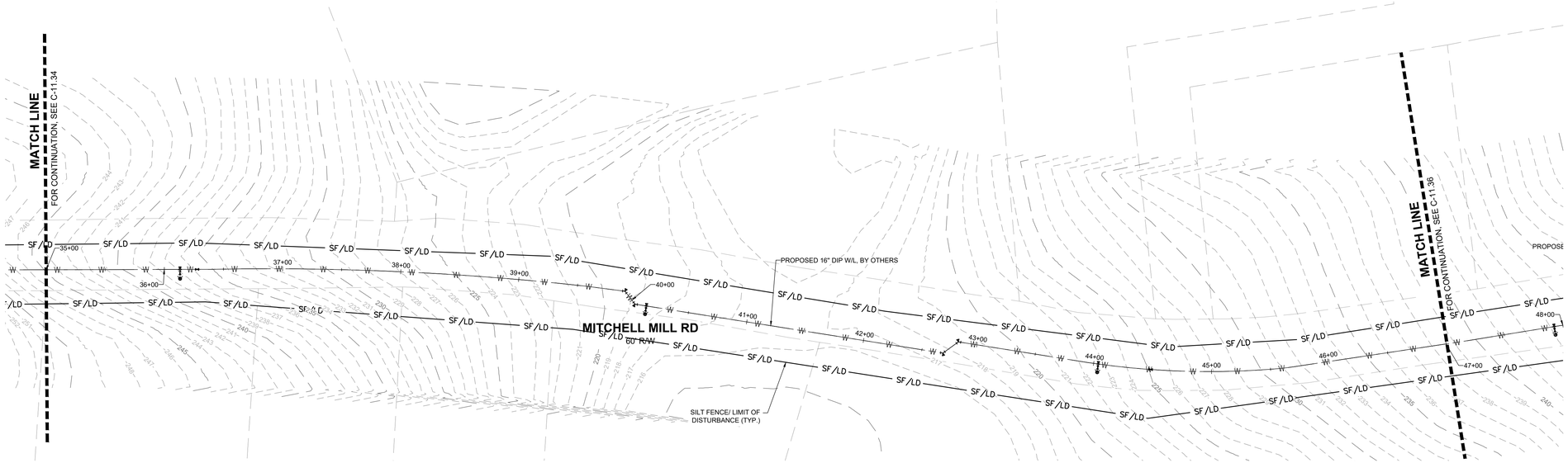
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OFF-SITE WATER MAIN - PLAN & PROFILE

DRAWING SHEET
C-11.34

130 OF 230



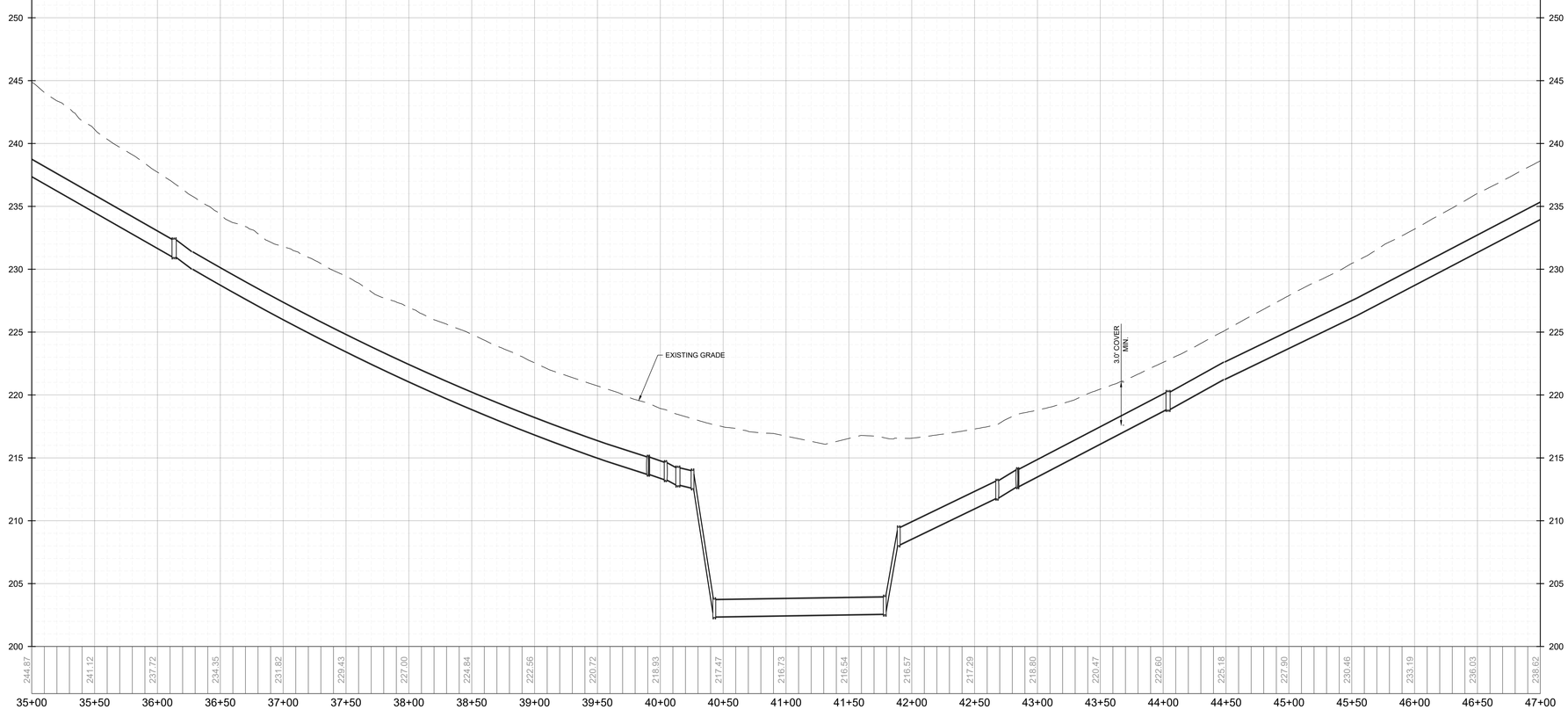
OFF-SITE WATER MAIN STATION 35+00 - 47+00 - PLAN

HORIZONTAL: 1" = 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



OFF-SITE WATER MAIN STATION 35+00 - 47+00 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM
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CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____

PUBLIC
SEWER COLLECTION / EXTENSION SYSTEM
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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

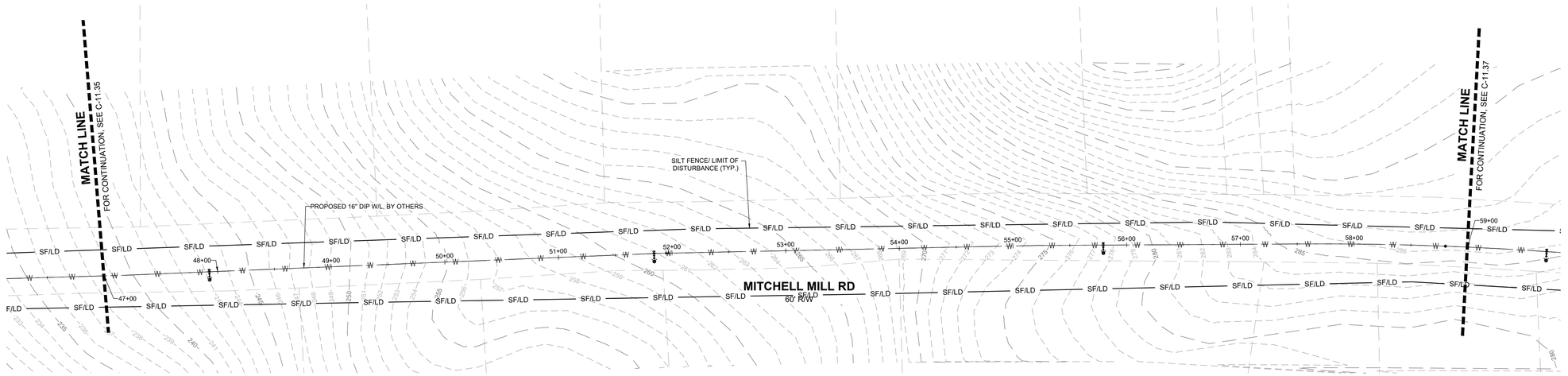
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OFF-SITE WATER MAIN - PLAN & PROFILE

DRAWING SHEET
C-11.35

PROGRESS PLOT DATE: 8/29/2025



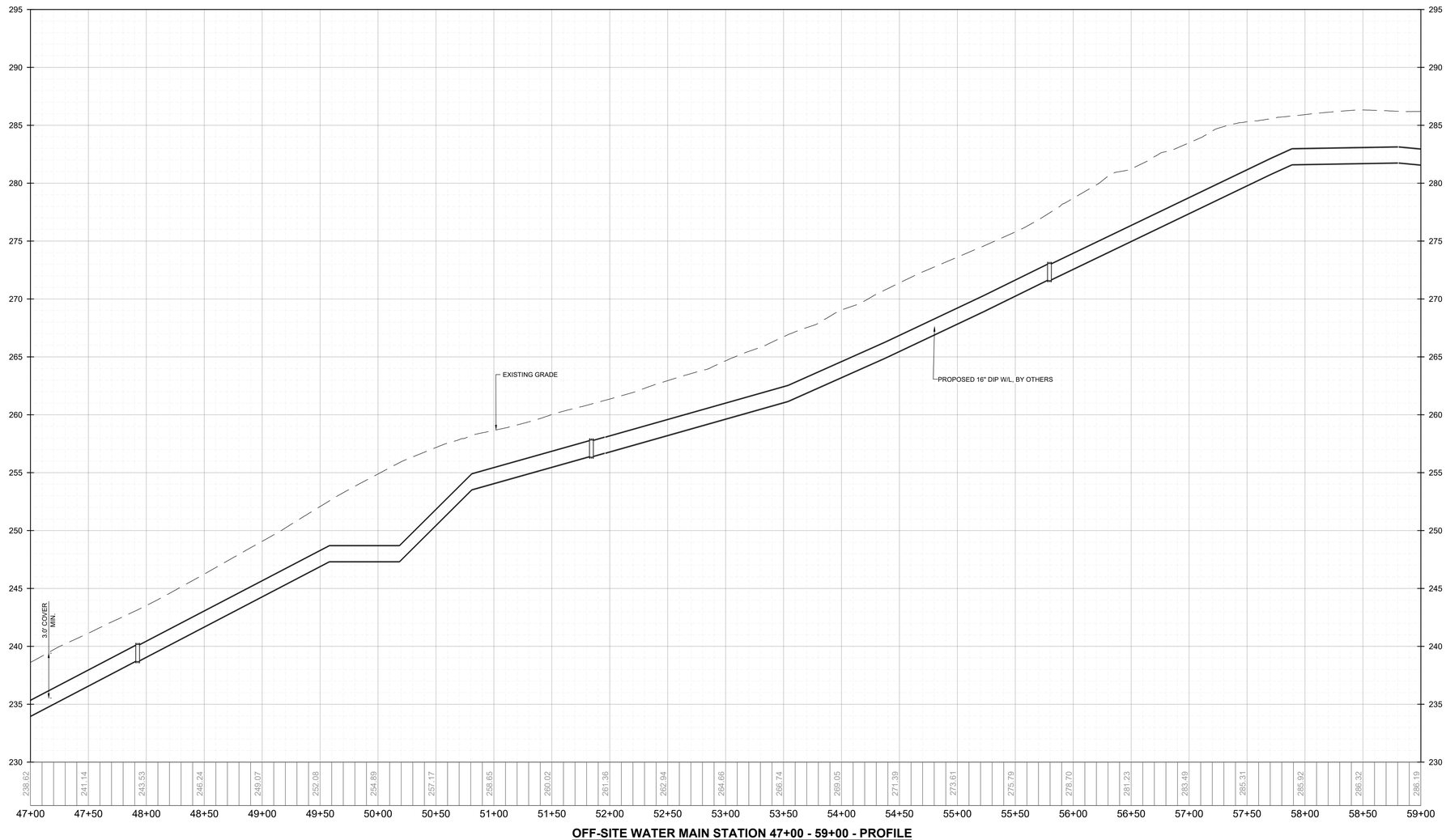
OFF-SITE WATER MAIN STATION 47+00 - 59+00 - PLAN

HORIZONTAL: 1" = 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



OFF-SITE WATER MAIN STATION 47+00 - 59+00 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM
THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.
CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____

PUBLIC
SEWER COLLECTION / EXTENSION SYSTEM
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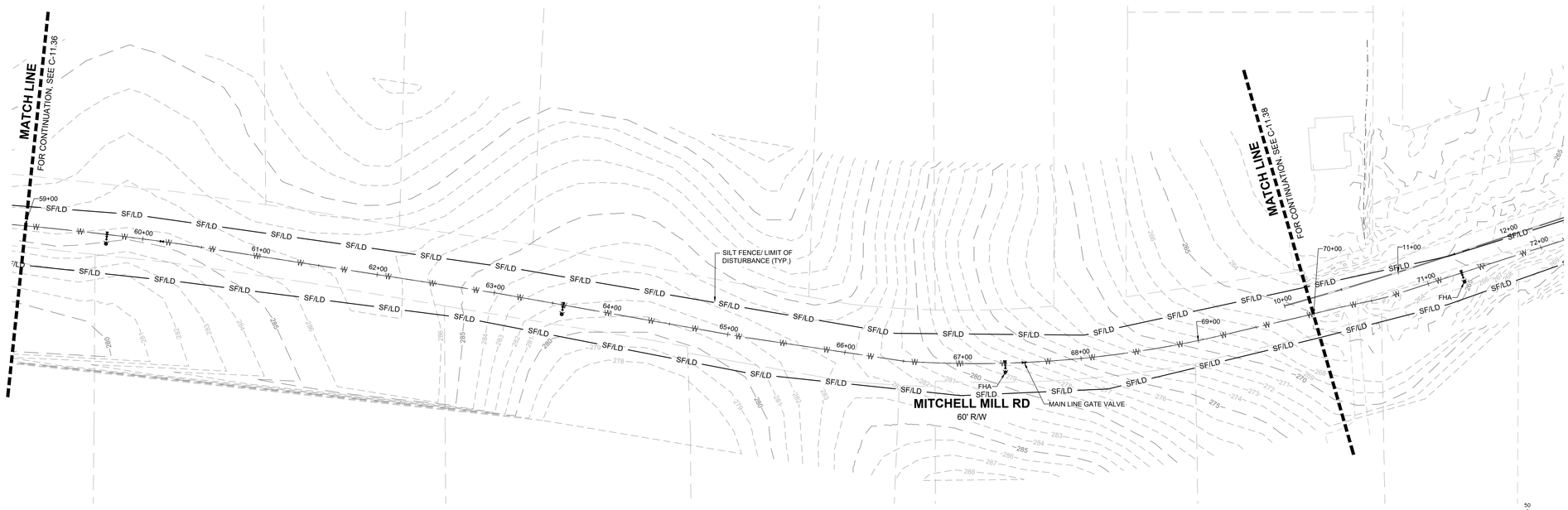
SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OFF-SITE WATER MAIN - PLAN & PROFILE

DRAWING SHEET
C-11.36



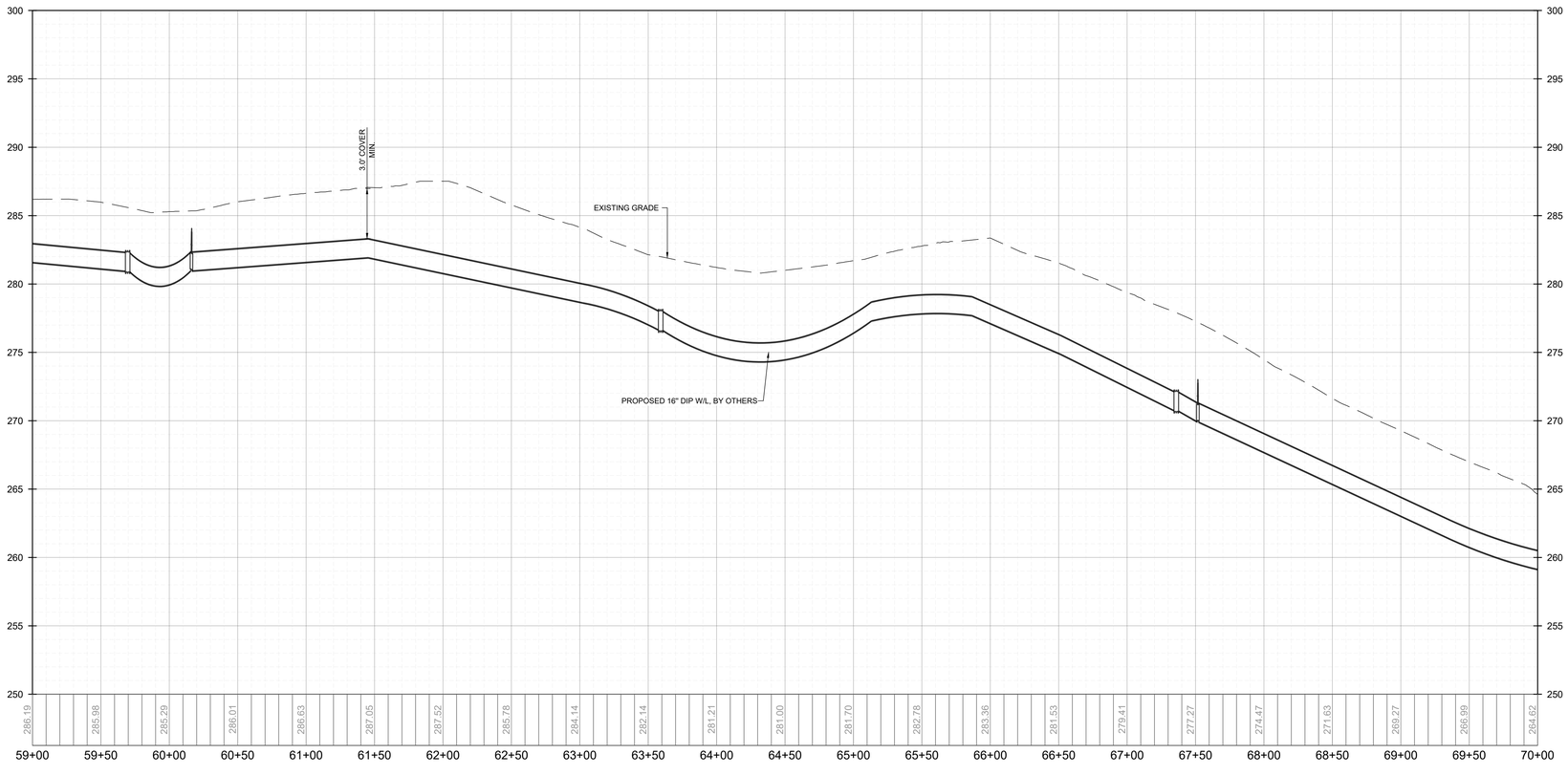
OFF-SITE WATER MAIN STATION 59+00 - 70+00 - PLAN

HORIZONTAL: 1" = 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



OFF-SITE WATER MAIN STATION 59+00 - 70+00 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM
THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.
CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____

PUBLIC
SEWER COLLECTION / EXTENSION SYSTEM
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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

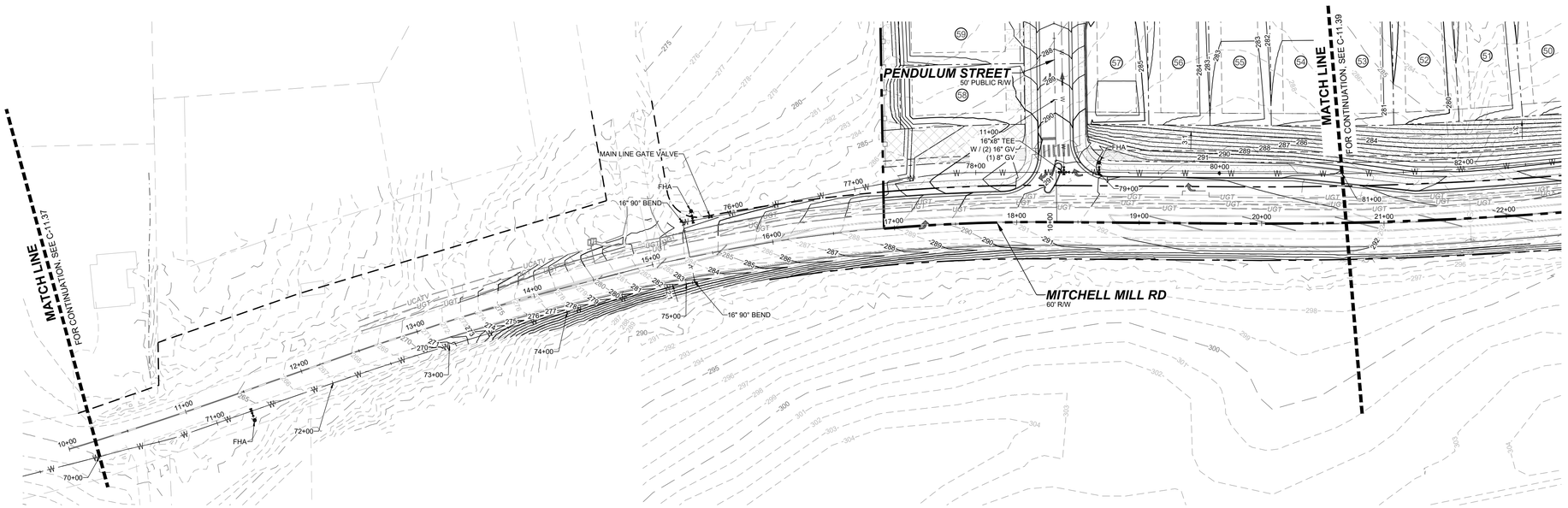
STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OFF-SITE WATER MAIN - PLAN & PROFILE

DRAWING
SHEET
C-11.37

133 OF 230



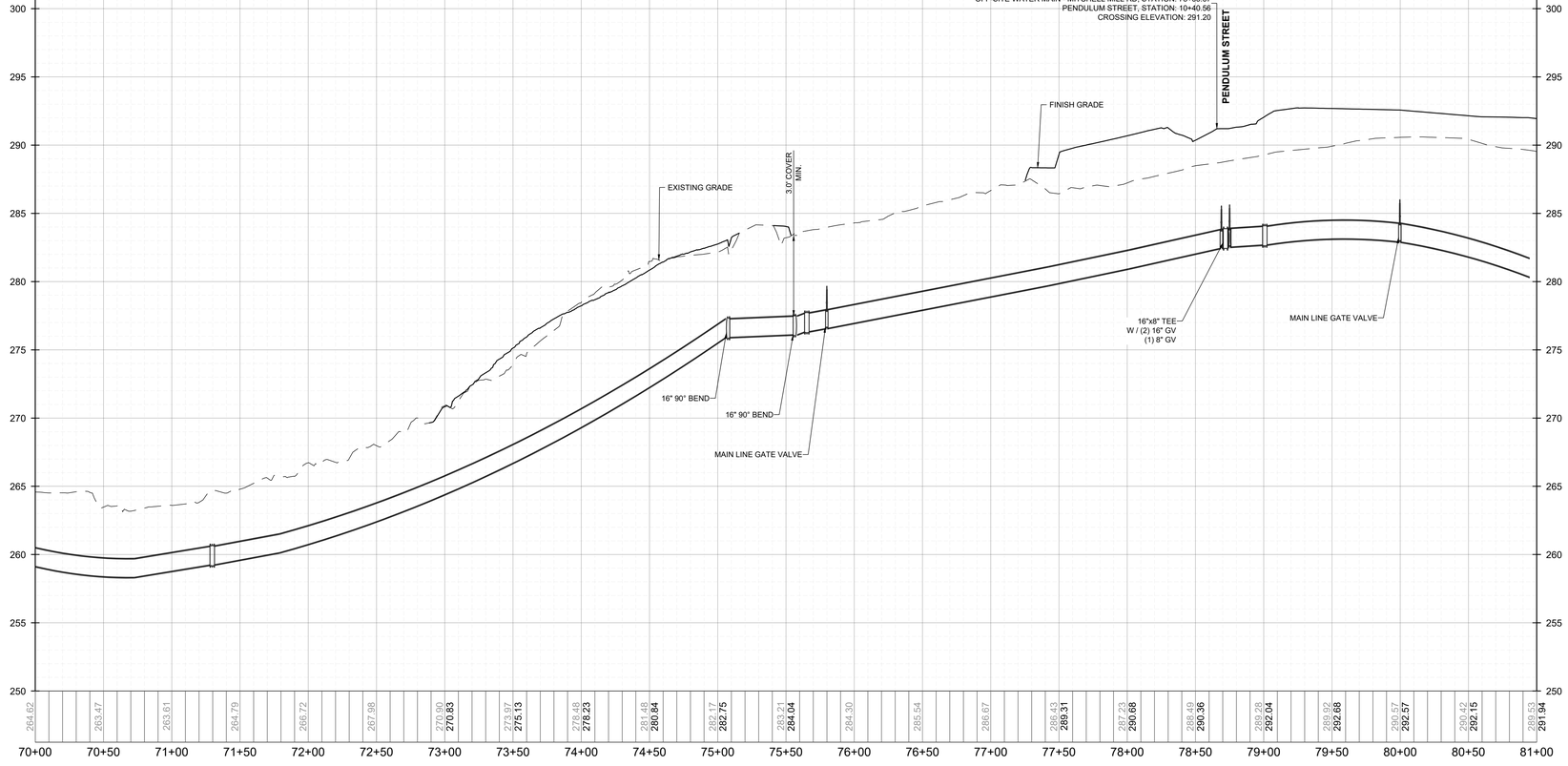
OFF-SITE WATER MAIN STATION 70+00 - 81+00 - PLAN

HORIZONTAL: 1" = 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



OFF-SITE WATER MAIN STATION 70+00 - 81+00 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM

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CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____

PUBLIC
SEWER COLLECTION / EXTENSION SYSTEM

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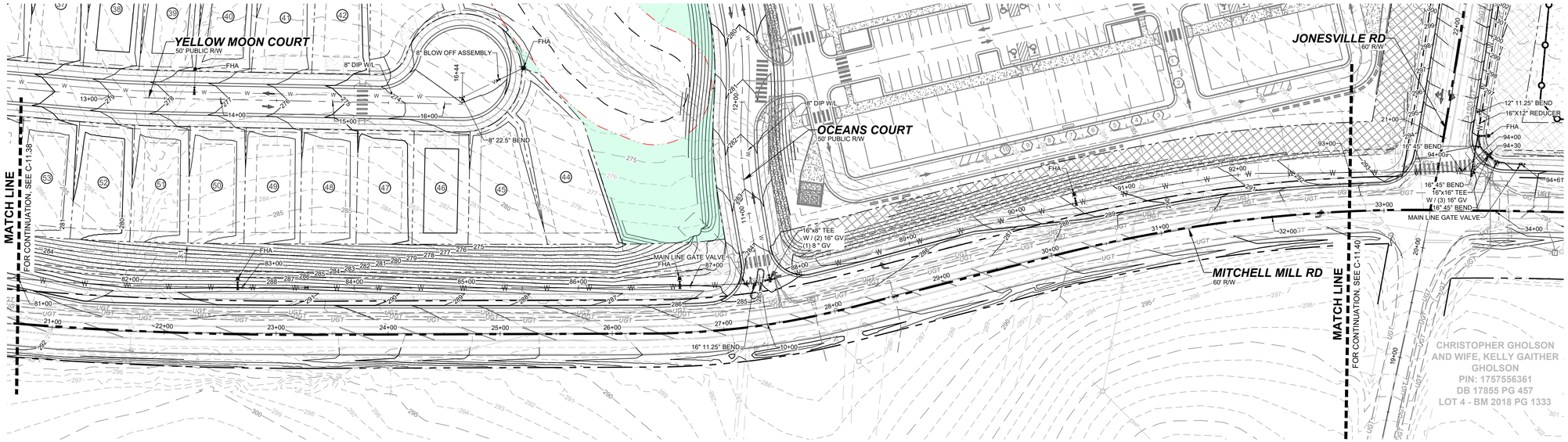
SEAL:

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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OFF-SITE WATER MAIN - PLAN & PROFILE

DRAWING / SHEET
C-11.38



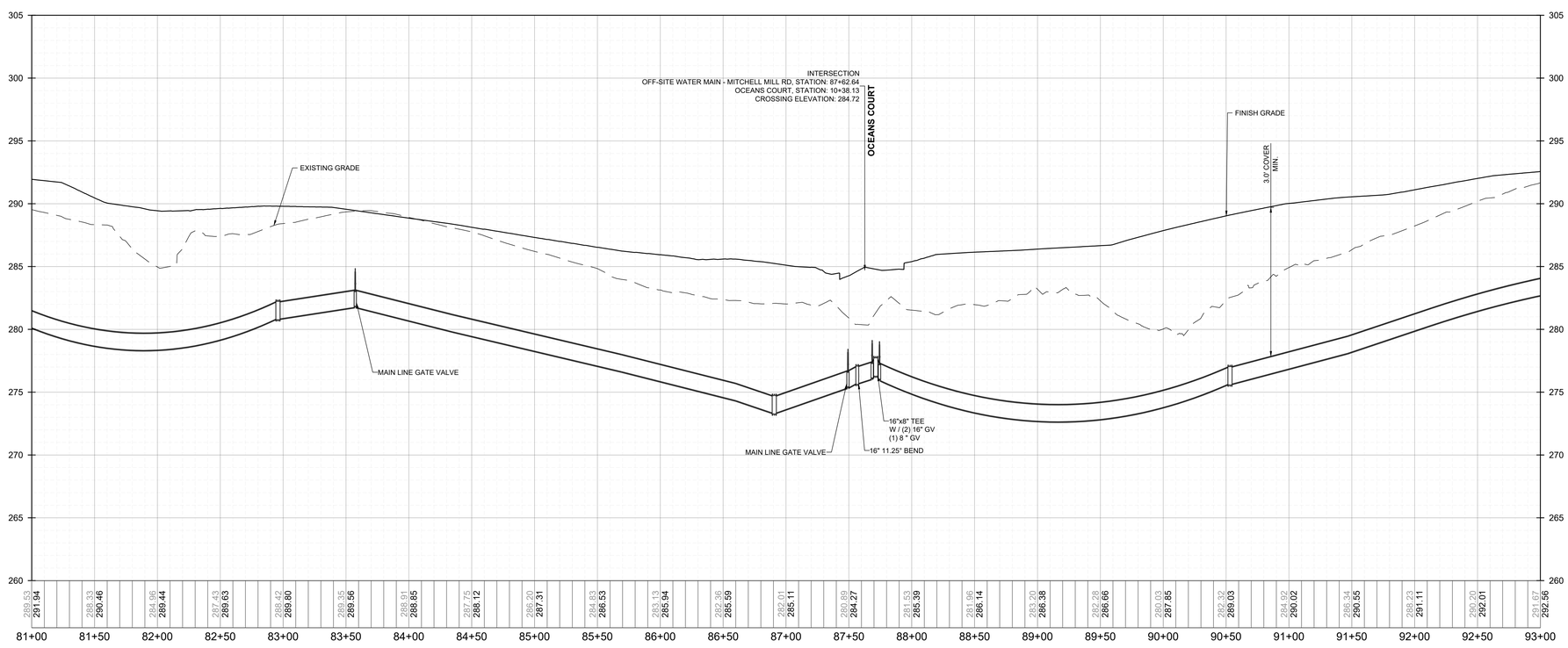
OFF-SITE WATER MAIN STATION 81+00 - 93+00 - PLAN

HORIZONTAL: 1" = 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



OFF-SITE WATER MAIN STATION 81+00 - 93+00 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM

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CITY OF RALEIGH
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PUBLIC
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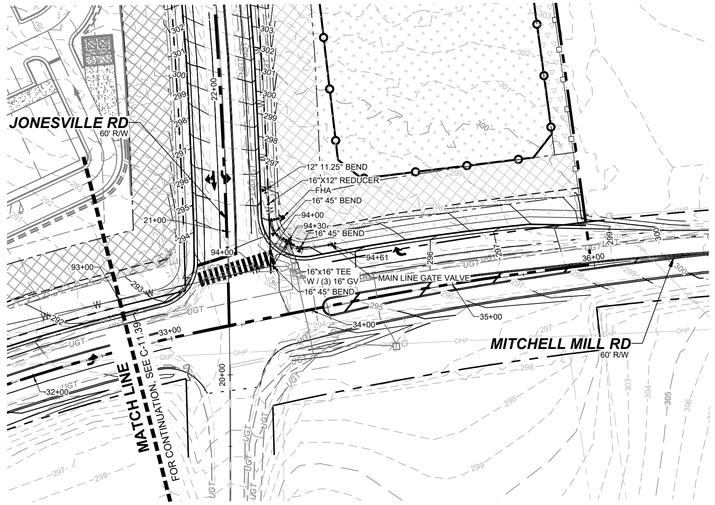
SEAL

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

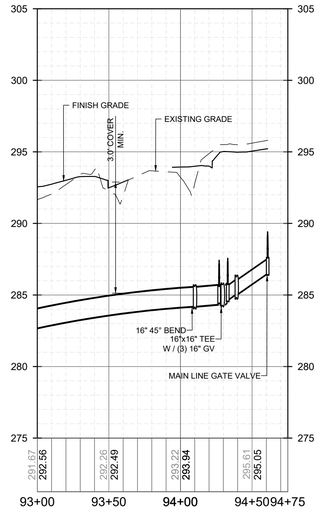
STRONG ROCK PROJECT	PSP-23-03
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CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OFF-SITE WATER MAIN - PLAN & PROFILE

DRAWING / SHEET
C-11.39



OFF-SITE WATER MAIN STATION 93+00 - 94+75 - PLAN
HORIZONTAL: 1" = 50'



OFF-SITE WATER MAIN STATION 93+00 - 94+75 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

PUBLIC
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CITY OF RALEIGH
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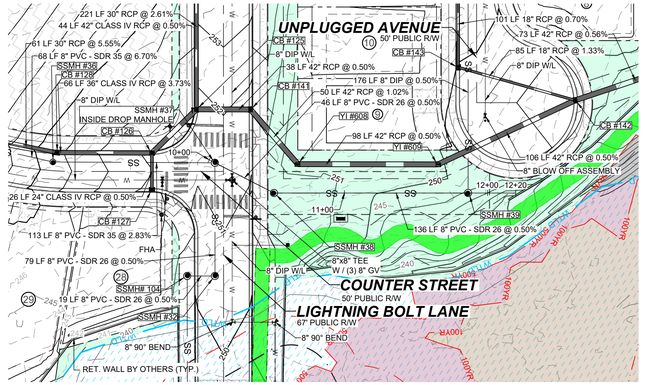
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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

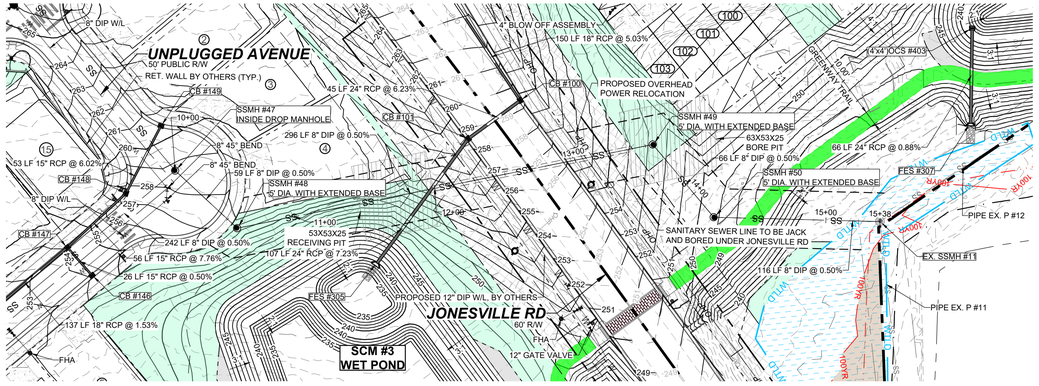
STRONG ROCK PROJECT	PSP-23-03		
	NOT FOR CONSTRUCTION		
SCALE	AS SHOWN	DESIGNED BY	SRG
		DRAWN BY	SRG
		CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OFF-SITE WATER MAIN - PLAN & PROFILE

DRAWING SHEET
C-11.40

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GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

PROPOSED SSMH #37 - SSMH #39 - PLAN

HORIZONTAL: 1" = 50'

PROPOSED SSMH #47 - EX SSMH #11 - PLAN

HORIZONTAL: 1" = 50'

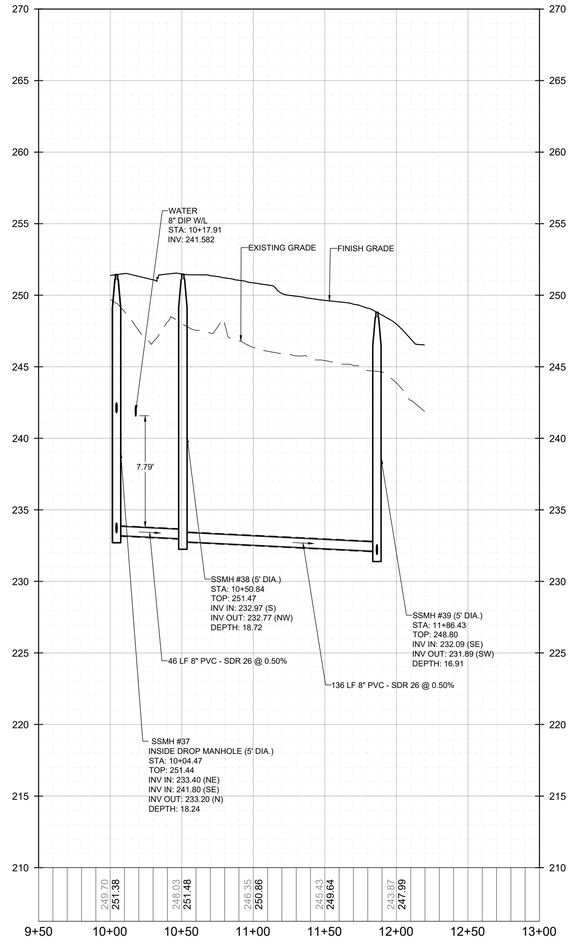
GRAPHIC SCALE

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(IN FEET)
1 inch = 50 ft.

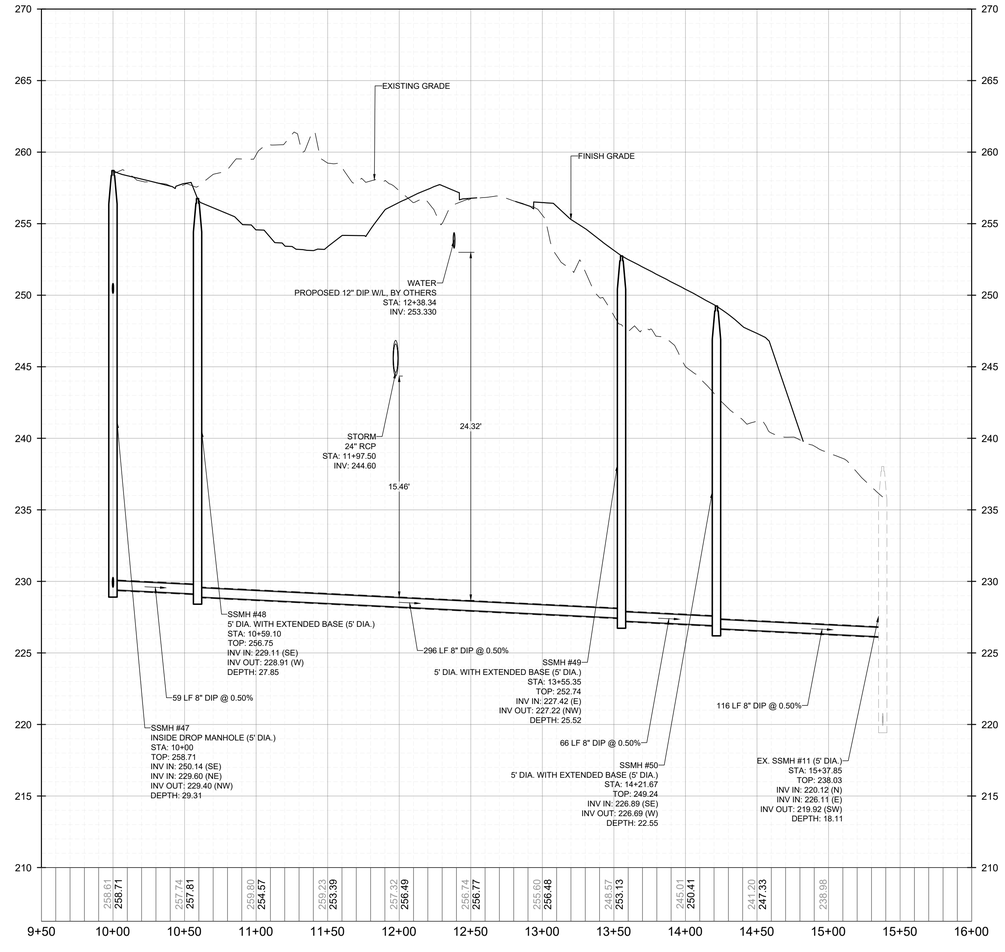
PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM
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CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____

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CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____



PROPOSED SSMH #37 - SSMH #39 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'



PROPOSED SSMH #47 - EX SSMH #11 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

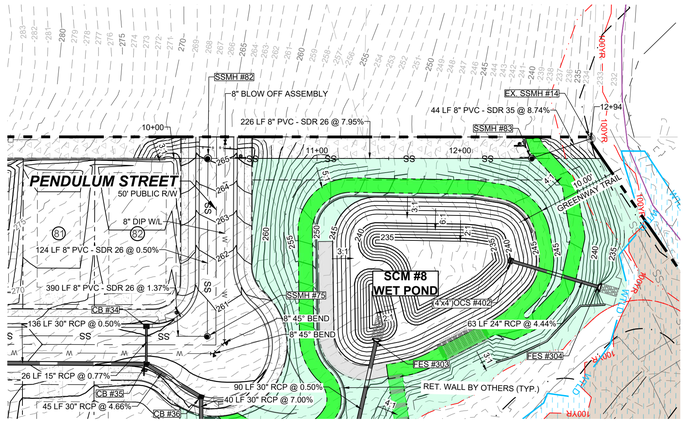
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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
ON-SITE SANITARY SEWER - PLAN & PROFILE

DRAWING SHEET
C-11.41

137 OF 230

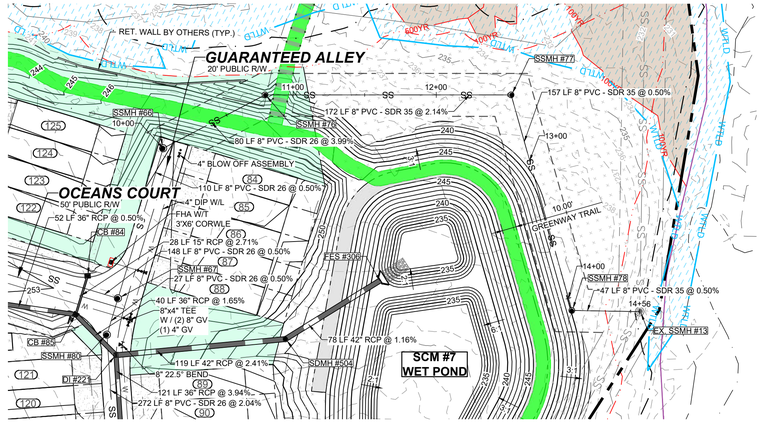


GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

PROPOSED SSMH #82 - EX. SSMH #14 - PLAN
HORIZONTAL: 1" = 50'



GRAPHIC SCALE

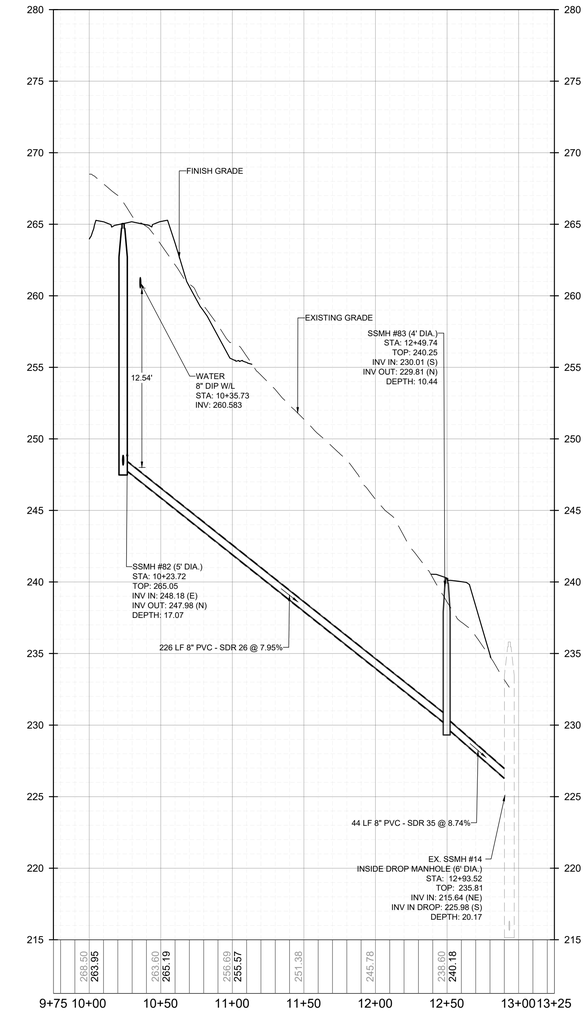
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(IN FEET)
1 inch = 50 ft.

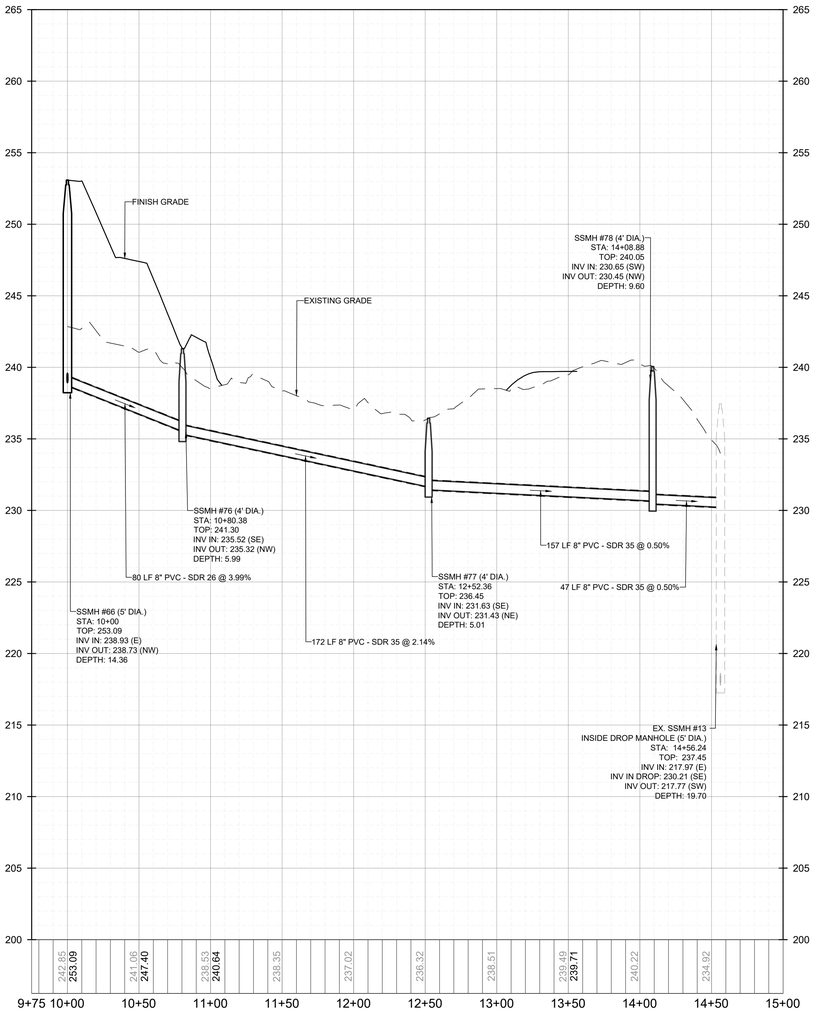
PROPOSED SSMH #66 - EX. SSMH #13 - PLAN
HORIZONTAL: 1" = 50'

PUBLIC
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PUBLIC
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PROPOSED SSMH #82 - EX. SSMH #14 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'



PROPOSED SSMH #66 - EX. SSMH #13 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

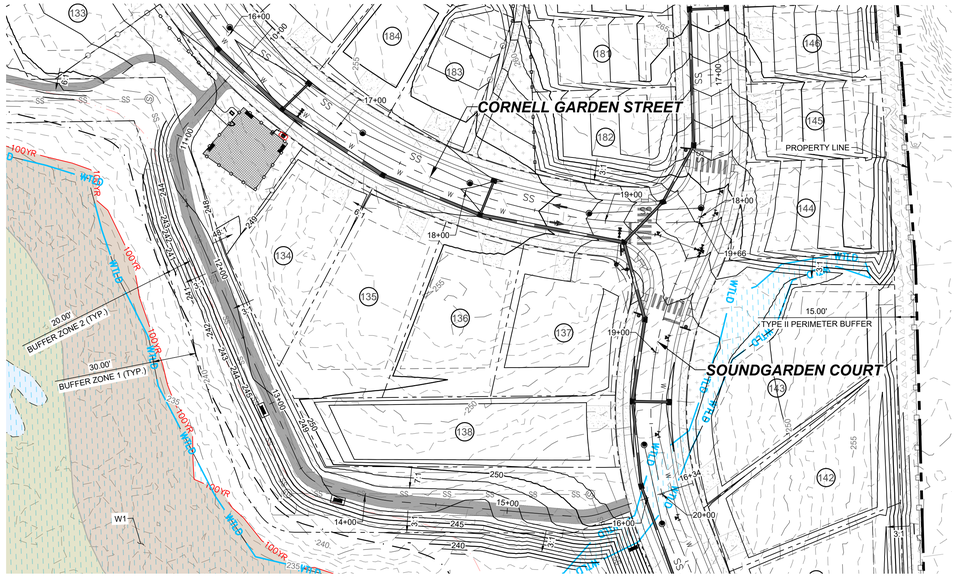
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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

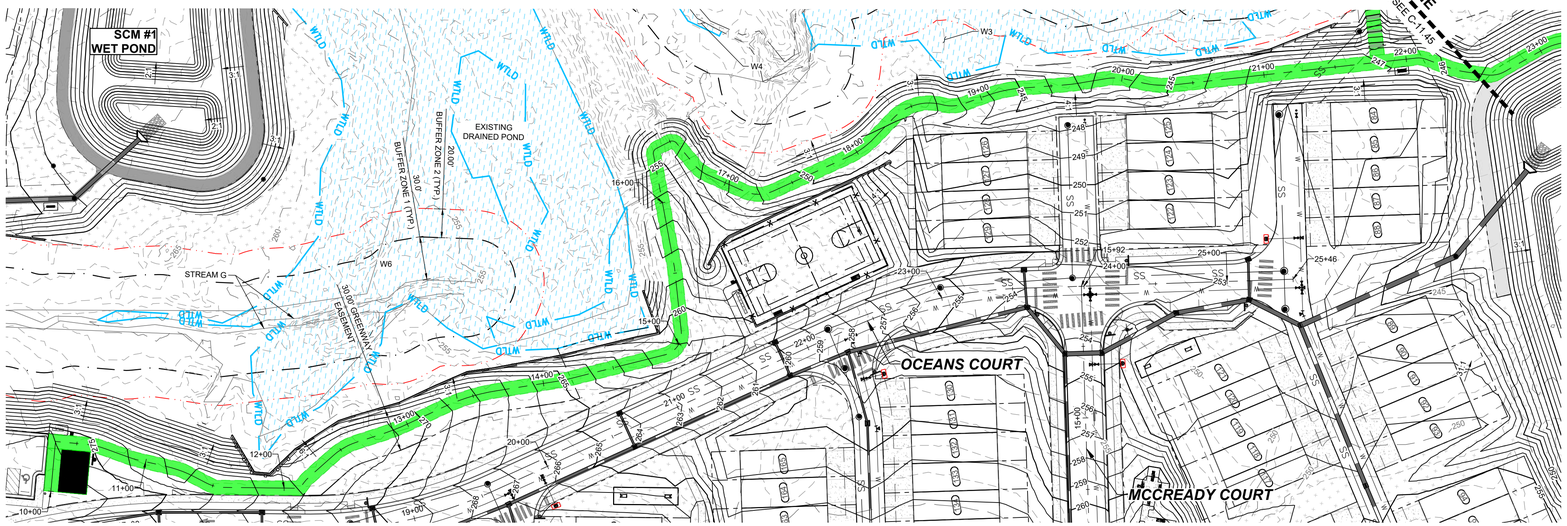
STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
ON-SITE SANITARY SEWER - PLAN & PROFILE

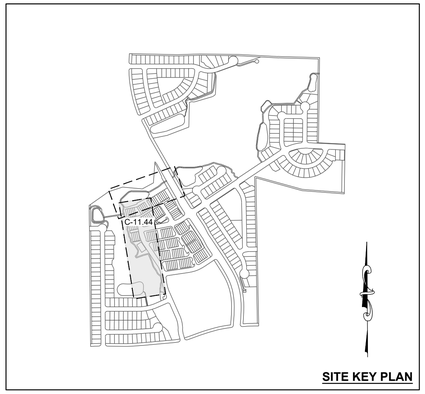
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C-11.42

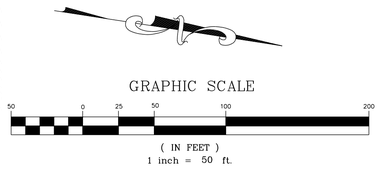
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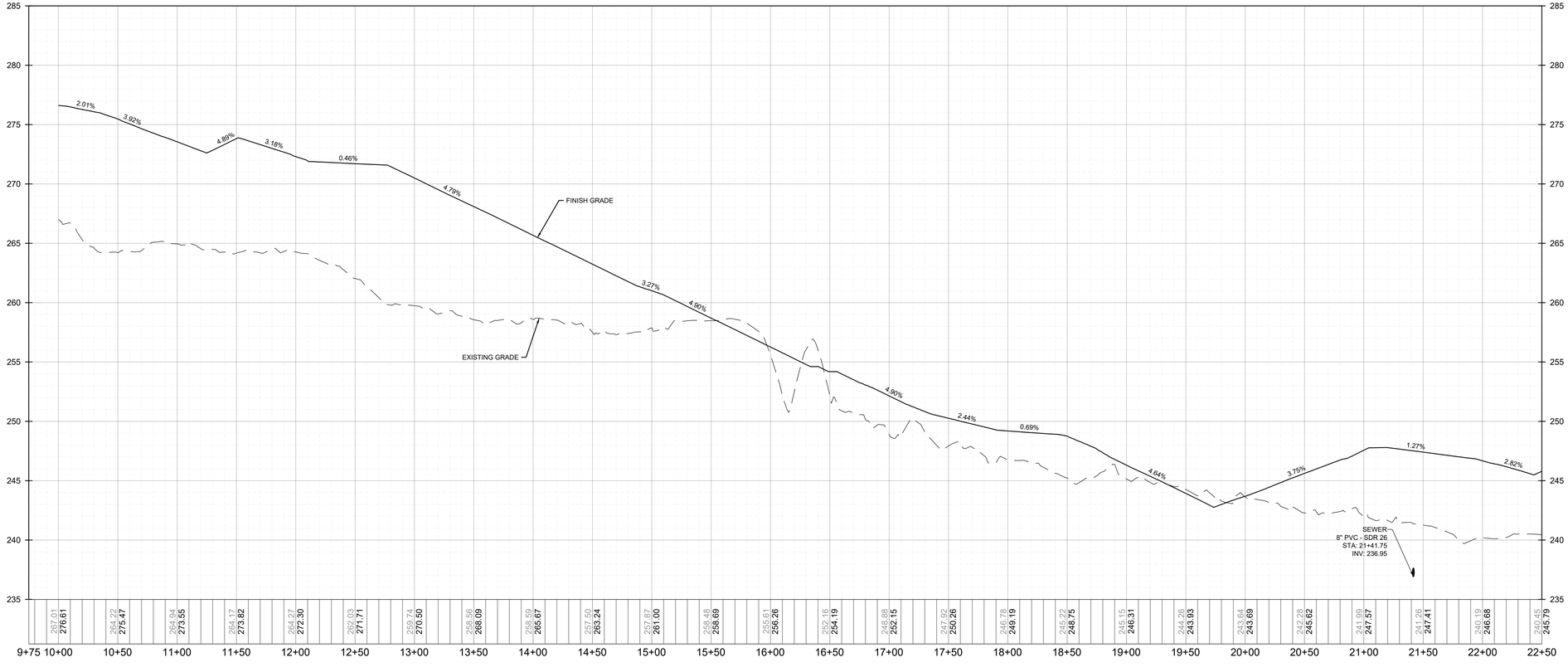

CORNELL GARDEN STREET
SOUNDGARDEN COURT
PROPERTY LINE
15.00'
TYPE II PERIMETER BUFFER
20.00'
BUFFER ZONE 2 (TYP.)
30.00'
BUFFER ZONE 1 (TYP.)
100YR
W1
W2
W3
W4
W5
W6
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W39
W40



PROPOSED GREENWAY 1 - PLAN
HORIZONTAL: 1" = 50'







PROPOSED GREENWAY 1 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
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SEAL:

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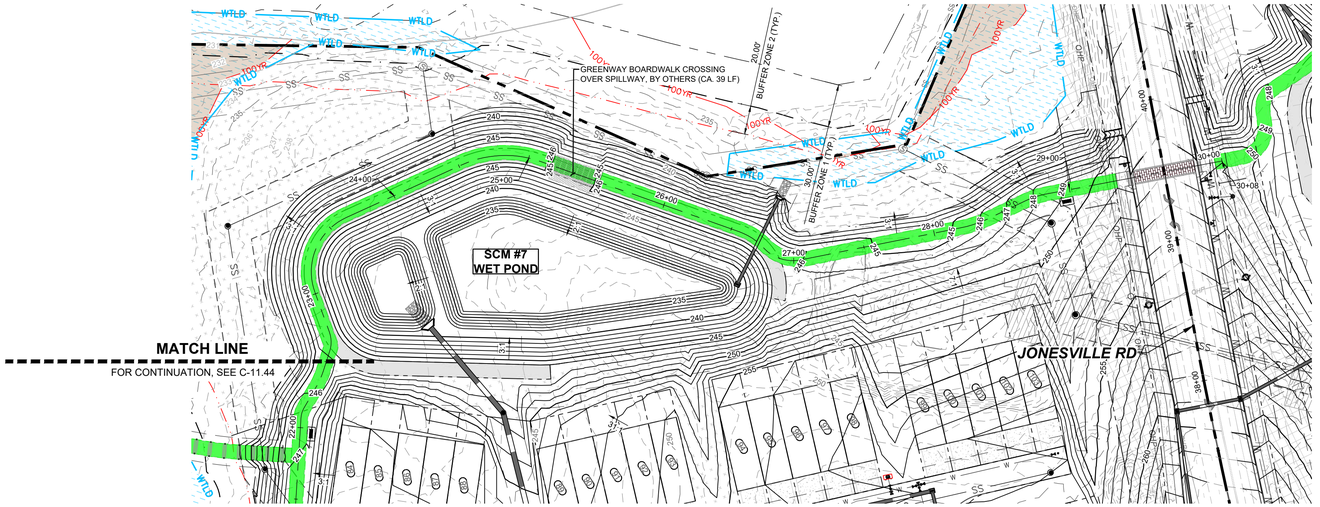
STRONG ROCK PROJECT	PSP-23-03
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PROPOSED GREENWAY 1
- PLAN & PROFILE

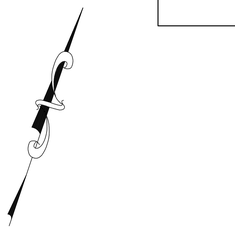
DRAWING SHEET
C-11.44

140 OF 230

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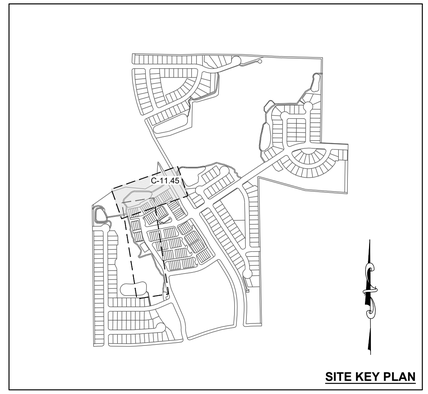
PROPOSED GREENWAY 1 - PLAN
HORIZONTAL: 1" = 50'



GRAPHIC SCALE

50 0 25 50 100 200

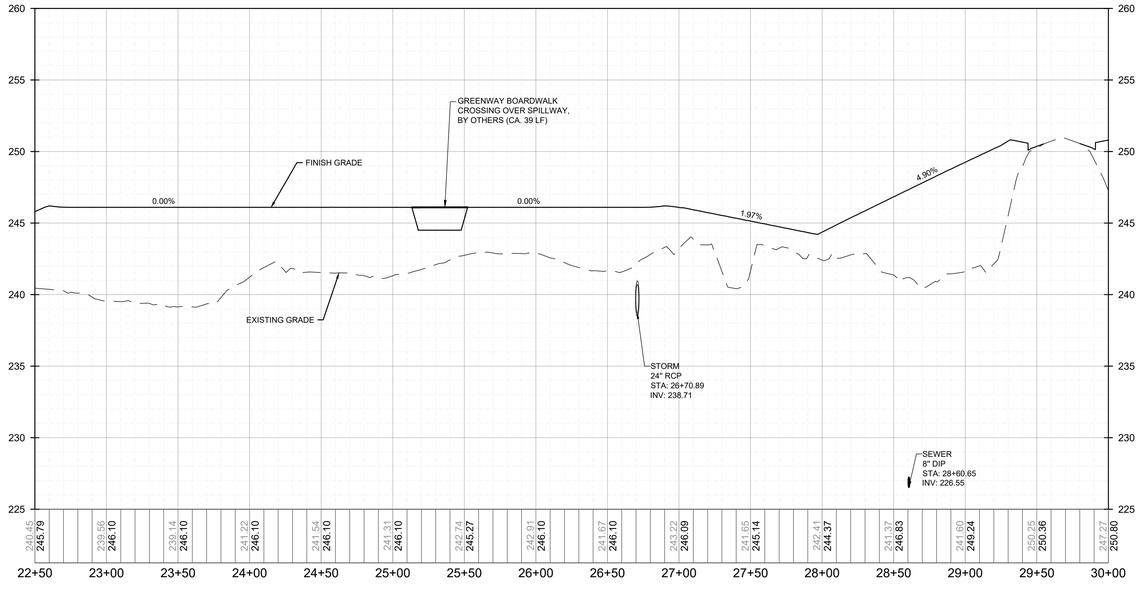
(IN FEET)
1 inch = 50 ft.



SITE KEY PLAN

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PROPOSED GREENWAY 1 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

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SEAL

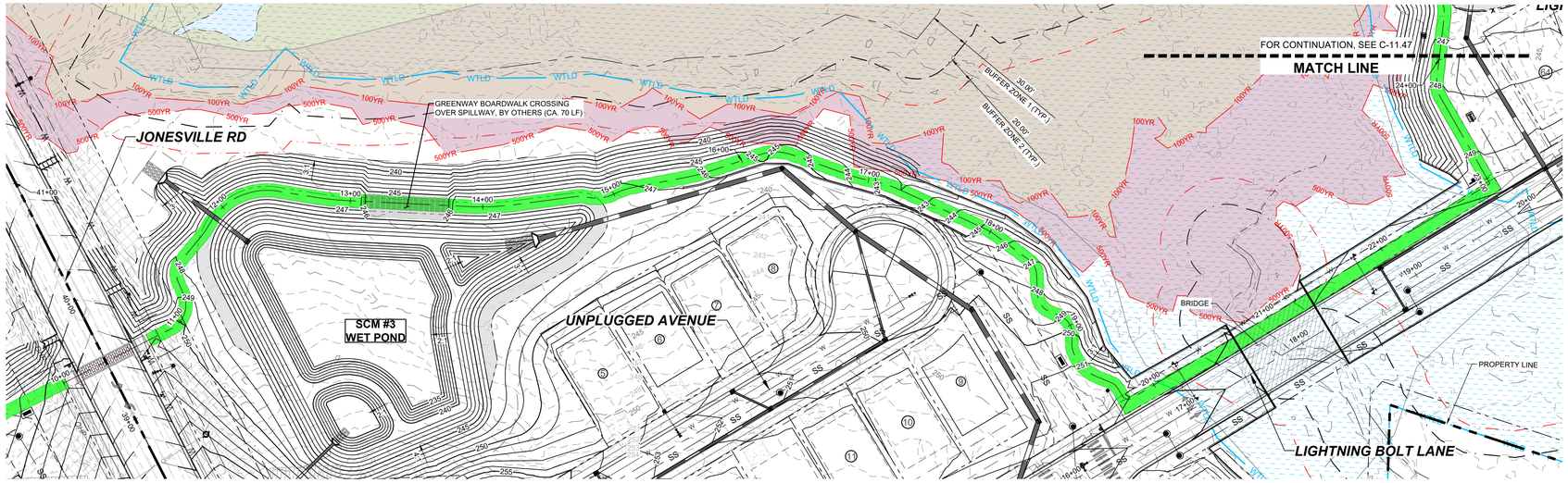
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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PROPOSED GREENWAY 1 - PLAN & PROFILE

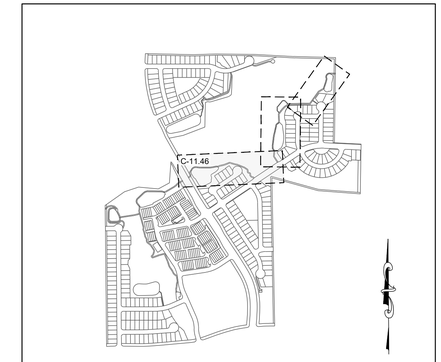
DRAWING SHEET
C-11.45

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PROPOSED GREENWAY 2 - PLAN

HORIZONTAL: 1" = 50'



SITE KEY PLAN

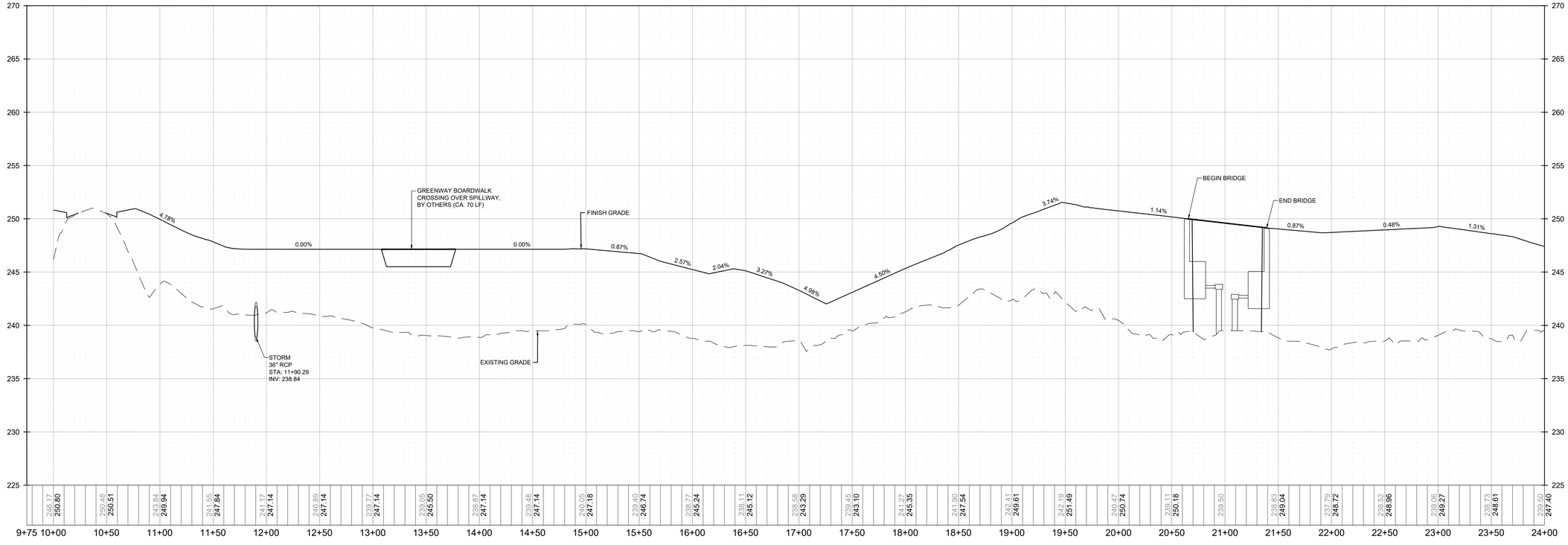
GRAPHIC SCALE

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(IN FEET)
1 inch = 50 ft.

PUBLIC
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PROPOSED GREENWAY 2 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

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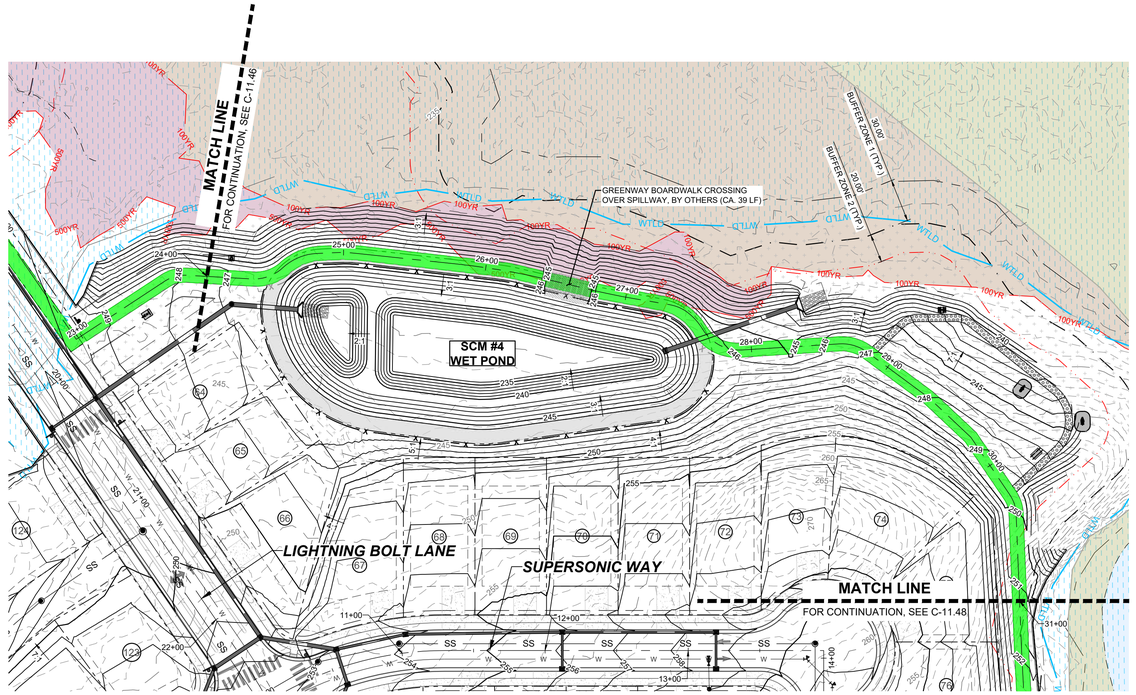
SEAL

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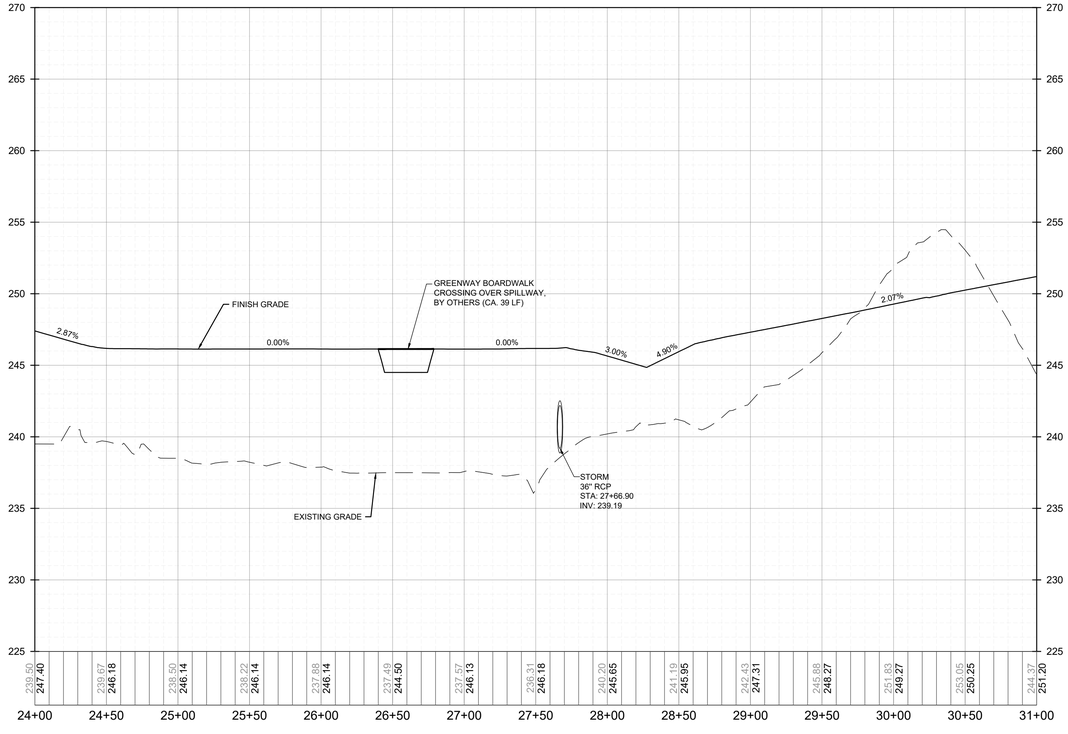
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TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PROPOSED GREENWAY 2 - PLAN & PROFILE

DRAWING SHEET
C-11.46



PROPOSED GREENWAY 2 - PLAN

HORIZONTAL: 1" = 50'



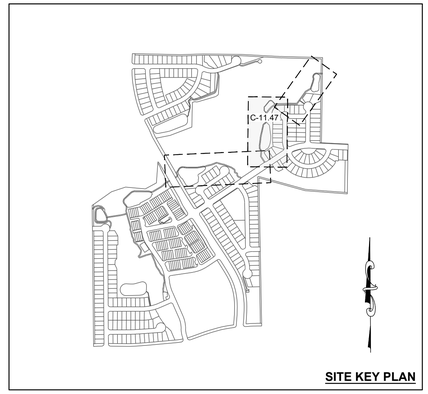
PROPOSED GREENWAY 2 - PROFILE

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



SITE KEY PLAN

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SEAL:

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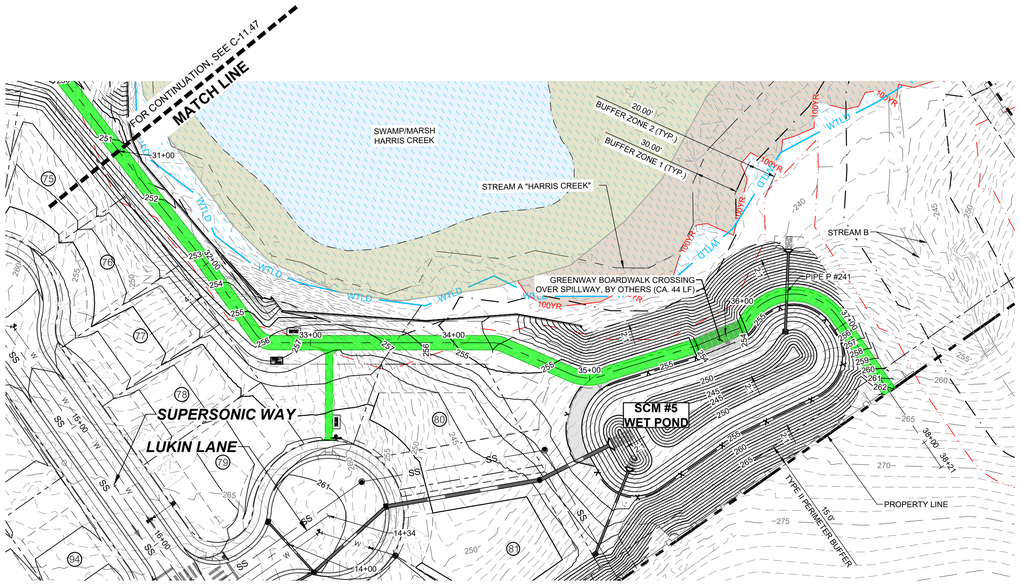
STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PROPOSED GREENWAY 2 - PLAN & PROFILE

DRAWING / SHEET
C-11.47

143 OF 230

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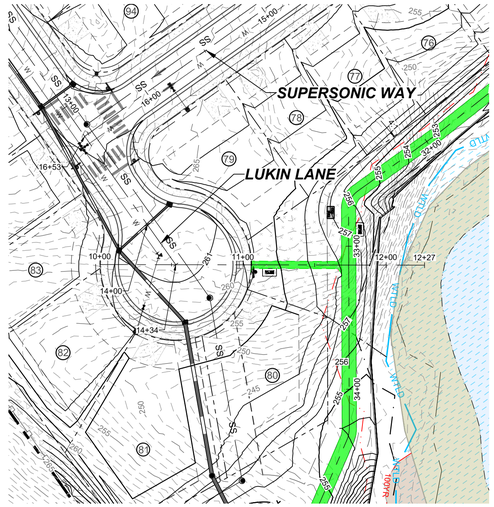


PROPOSED GREENWAY 2 - PLAN
HORIZONTAL: 1" = 50'

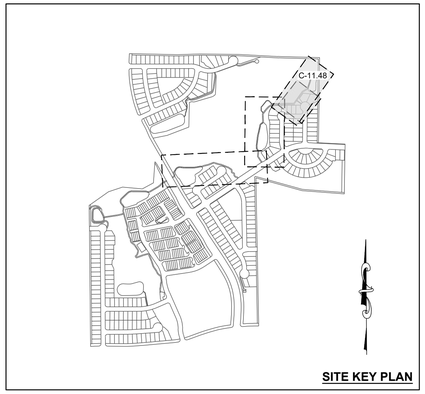
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



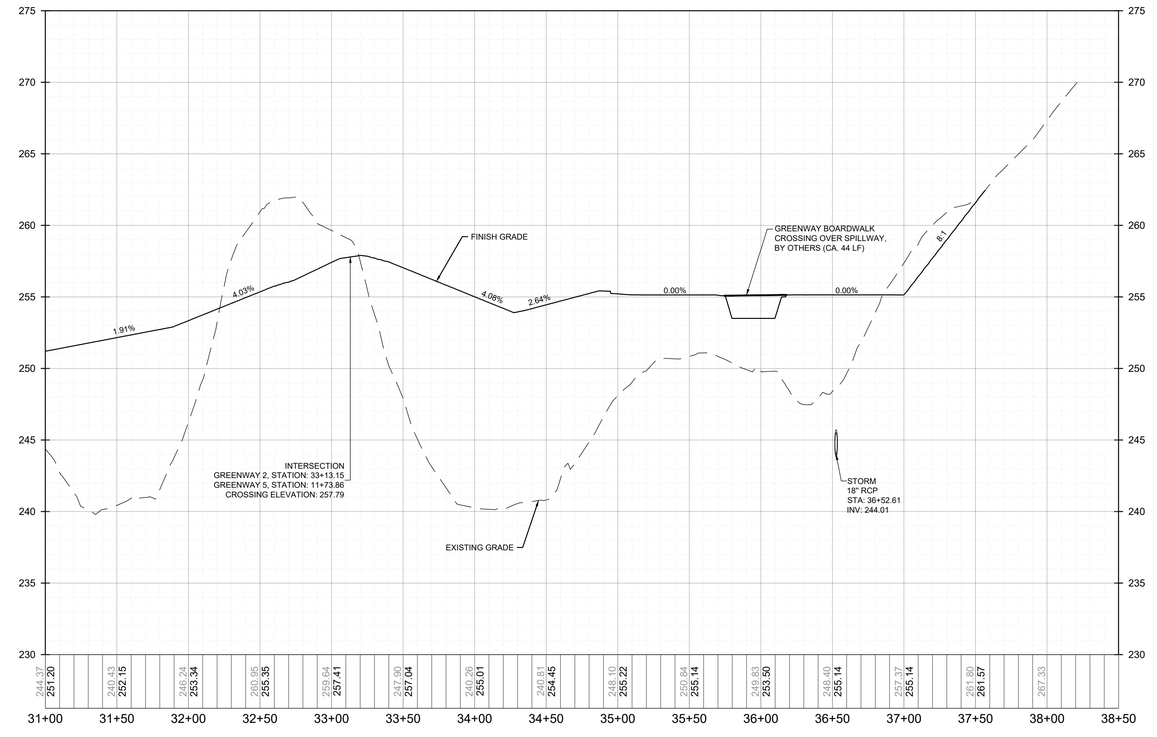
PROPOSED GREENWAY 3 - PLAN
HORIZONTAL: 1" = 50'



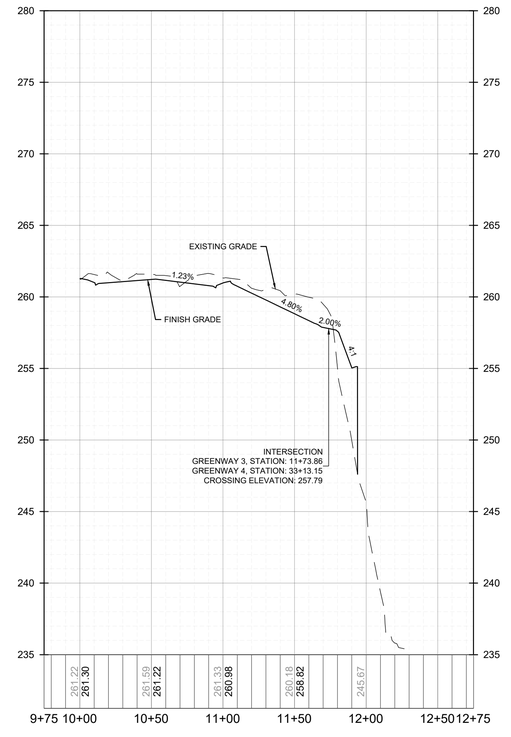
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



PROPOSED GREENWAY 2 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'



PROPOSED GREENWAY 3 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
WATER DISTRIBUTION / EXTENSION SYSTEM
THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.
CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _____

PUBLIC
SEWER COLLECTION / EXTENSION SYSTEM
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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

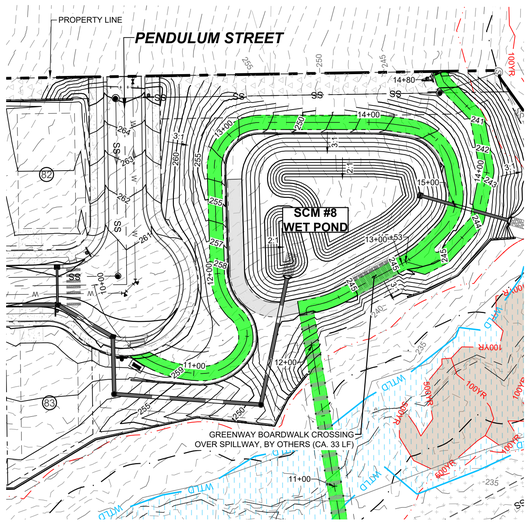
SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

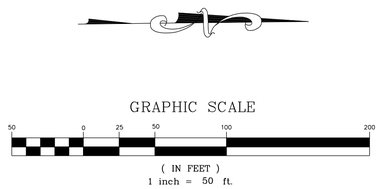
STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

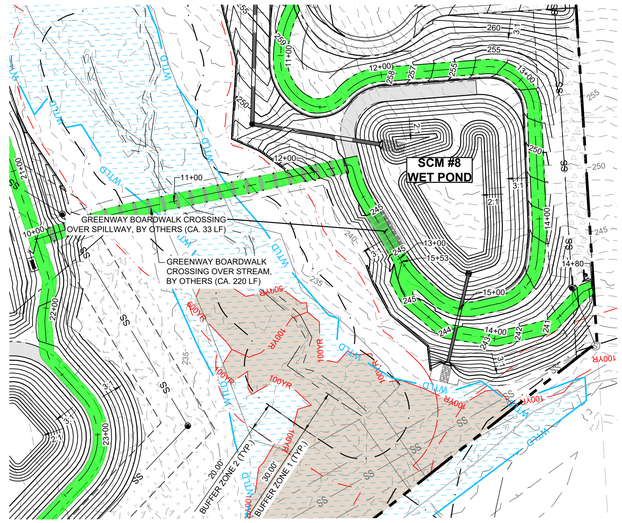
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PROPOSED GREENWAY 2 & 3 - PLAN & PROFILE

DRAWING
SHEET
C-11.48

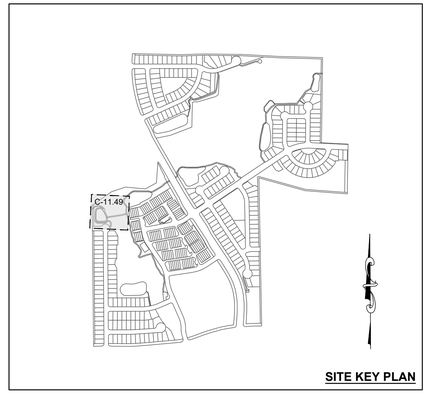


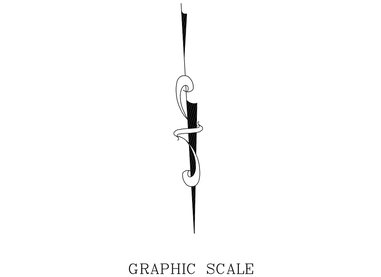
PROPOSED GREENWAY 4 - PLAN
HORIZONTAL: 1" = 50'

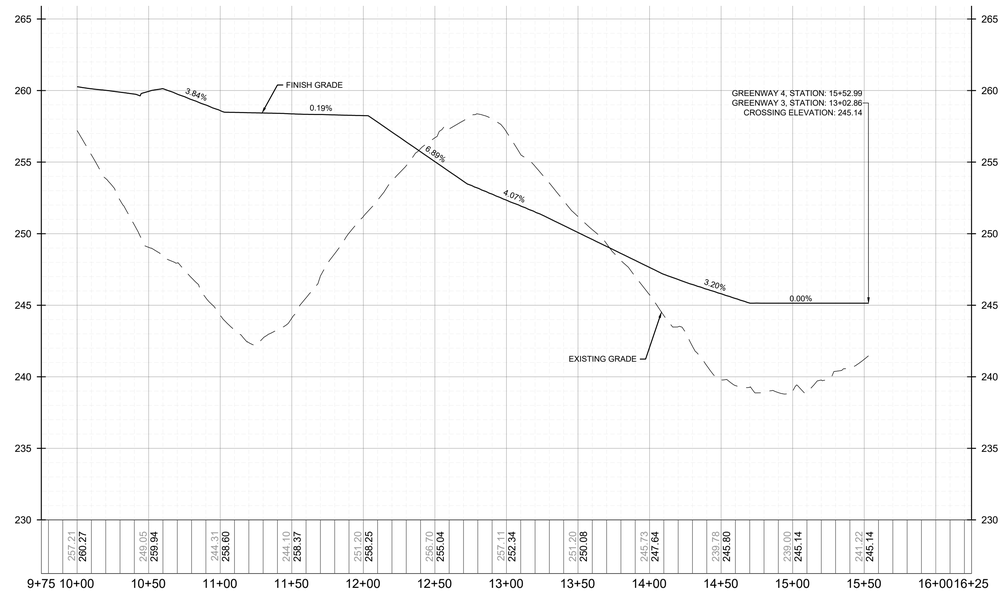




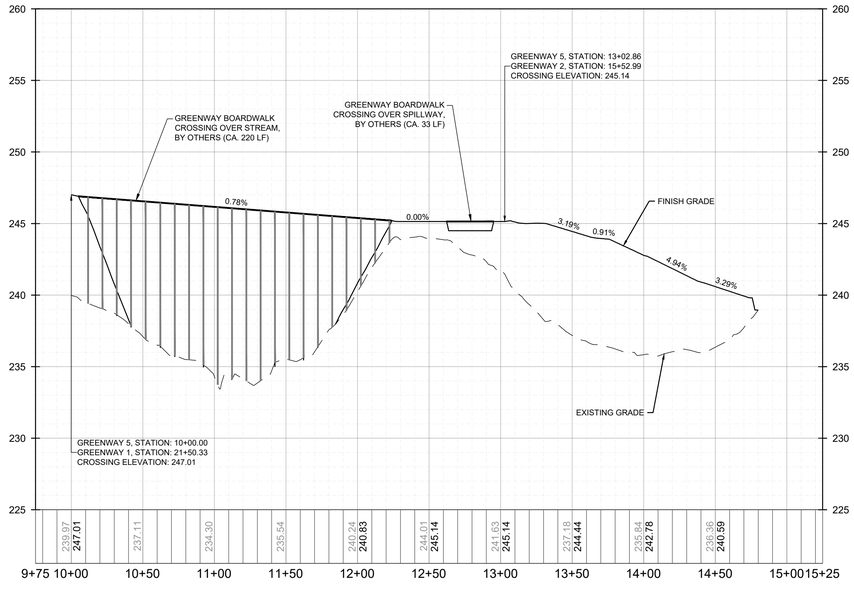
PROPOSED GREENWAY 5 - PLAN
HORIZONTAL: 1" = 50'







PROPOSED GREENWAY 4 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'



PROPOSED GREENWAY 5 - PROFILE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

PUBLIC
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SEAL:

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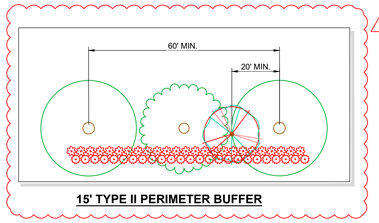
STRONG ROCK PROJECT	PSP-23-03		
NOT FOR CONSTRUCTION			
SCALE	AS SHOWN	DESIGNED BY	SRG
		DRAWN BY	SRG
		CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PROPOSED GREENWAY 4 & 5 - PLAN & PROFILE

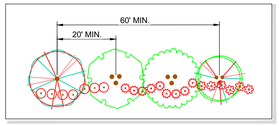
DRAWING SHEET
C-11.49

145 OF 230

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15' TYPE II PERIMETER BUFFER



30' STREET YARD BUFFER

NOTES:

SEE SHEET C-3.0 FOR ADJACENT PROPERTY DETAILS

LANDSCAPING NOTES:

BUFFERS SHALL BE PLATTED AS SEPARATE TRACTS TO BE OWNED AND MAINTAINED BY THE HOA OR SIMILAR ENTITY.

TOWNHOME NOTES:

STATES INTERNAL TOWNHOME DRIVEWAYS ARE PRIVATE EASEMENTS AS PER CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	MIN. SPACING
STREET TREES								
	ACE FLD	115	**ACER FLORIDANUM**	**SOUTHERN SUGAR MAPLE**	12' HT.	B&B	3.0"	40' OC
	ACE SCR	55	**ACER X FREEMANII 'SCARSEN'**	**SCARLET SENTINEL® RED MAPLE**	12' HT.	B&B	3.0"	40' OC
	CAR FST	20	**CARPINUS BETULUS 'FASTIGIATA'**	**UPRIGHT EUROPEAN HORNBEAM**	12' HT.	B&B	3.0"	40' OC
	CLA LUT	29	**CLADRASTIS LUTEA**	**AMERICAN YELLOWWOOD**	12' HT.	B&B	3.0"	40' OC
	GIN AUT	21	**GINKGO BILOBA 'AUTUMN GOLD'**	**AUTUMN GOLD MAIDENHAIR TREE**	12' HT.	B&B	3.0"	40' OC
	GLE TTI	36	**GLEDITSIA TRIACANTHOS F. INERMIS**	**THORNLESS HONEY LOCUST**	12' HT.	B&B	3.0"	40' OC
	NYS SYL	38	**NYSSA SYLVATICA**	**TUPELO**	12' HT.	B&B	3.0"	40' OC
	PIS SAR	43	**PISTACIA CHINENSIS 'SARAH'S RADIANCE'**	**SARAH'S RADIANCE CHINESE PISTACHE**	12' HT.	B&B	3.0"	40' OC
	PLA OCC	20	**PLATANUS OCCIDENTALIS**	**AMERICAN SYCAMORE**	12' HT.	B&B	3.0"	40' OC
	QUE CEN	108	**QUERCUS BICOLOR 'BONNIE AND MIKE'**	**BEACON® OAK**	12' HT.	B&B	3.0"	40' OC
	QUE UIY	27	**QUERCUS HEMISPHAERICA 'QHMTF'**	**AVALYN™ LAUREL OAK**	12' HT.	B&B	3.0"	40' OC
	QUE SHU	46	**QUERCUS SHUMARDII**	**SHUMARD OAK**	12' HT.	B&B	3.0"	40' OC
	TIL AME	55	**TILIA AMERICANA**	**AMERICAN LINDEN**	12' HT.	B&B	3.0"	40' OC
SUBTOTAL:		**613**						
UNDERSTORY BUFFER								
	AME LKG	79	**AMELANCHIER LAEVIS**	**ALLEGHENY SERVICEBERRY MULTI-TRUNK**	8' HT.	B&B	3.0"	MULTI STEM
	CAR OCR	63	**CARPINUS CAROLINIANA 'ORANGE CRUSH'**	**ORANGE CRUSH AMERICAN HORNBEAM**	7' HT.	B&B	3.0"	MULTI STEM
	CHI VIR	82	**CHIONANTHUS VIRGINICUS**	**WHITE FRINGETREE**	6' HT.	B&B	3.0"	MULTI STEM
	LAG PXC	15	**LAGERSTROEMIA INDICA X FAURIEI 'APALACHEE'**	**APALACHEE CRAPE MYRTLE**	6' HT.	B&B	3.0"	MULTI STEM
	LAG OTN	62	**LAGERSTROEMIA INDICA X FAURIEI 'COMANCHE'**	**COMANCHE CRAPE MYRTLE**	6' HT.	B&B	3.0"	MULTI STEM
	LAG TON	16	**LAGERSTROEMIA INDICA X FAURIEI 'TONTO'**	**TONTO CRAPE MYRTLE MULTI-TRUNK**	6' HT.	B&B	3.0"	MULTI STEM
SUBTOTAL:		**317**						

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	DETAIL
BUFFER SHRUBS								
	ILE CON	475	**ACER FLORIDANUM**	**CONVEX-LEAVED JAPANESE HOLLY**	2' HT.	POT	48' O.C.	
	LOR ' 'C	1574	**LOROPETALUM CHINENSE RUBRUM 'CAROLINA MIDNIGHT'**	**CAROLINA MIDNIGHT FRINGE FLOWER**	2' HT.	POT	48' O.C.	
	PRU CSL	1549	**PRUNUS LUSITANICA 'ANGUSTIFOLIA'**	**PORTUGAL LAUREL**	3 GAL.	POT	48' O.C.	
SUBTOTAL:		**3598**						



GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

OVERALL LANDSCAPE PLAN

DRAWING SHEET

L-1.0

PROGRESS PLOT DATE: 8/29/2025

CHARLES ALFONSA JONES AND WIFE ALLIE V.JONES
PIN: 1757484609
DB 2305 PG 673
ZONING: R-30 (WC)
USE: SF

BENJAMIN FERRELL
PIN: 1757485713
DB 1697 PG 465
ZONING: R-30 (WC)
USE: SF

ALESHIA FERRELL & ARRON WALKER
PIN: 1757486733
DB 6374 PG 89
BM 1996 PG 00524
ZONING: R-30 (WC)
USE: SF

CHRIST HOLINESS CHURCH #1
PIN: 1757487783
DB 2928 PG 328
ZONING: R-30 (WC)
USE: CH

CHRIST HOLINESS CHURCH #1
PIN: 1757489733
DB 4321 PG 788
ZONING: R-30 (WC)
USE: VA

CHRIST HOLINESS CHURCH #1
PIN: 1757580764
DB 9467 PG 430
ZONING: R-30 (WC)
USE: VA

ALICIA BROWN & CARL T. JONES
PIN: 1757582714
DB 16128 PG 183
ZONING: R-30 (WC)
USE: SF

RS RENTAL II LLC
PIN: 1757584724
DB 18703 PG 2414
BM 1981 PG 894
ZONING: R-30 (WC)
USE: SF

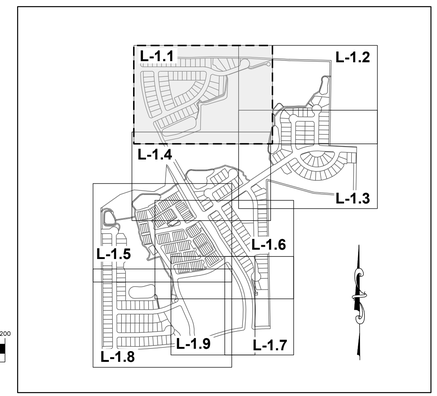
KAREN E. BASS
PIN: 1757586704
DB 12560 PG 1626
BM 1984 PG 943
ZONING: R-30 (WC)
USE: SF

HENRY ALSTON
PIN: 1757481376
DB 19248 PG 984
BM 1982 PG 721
ZONING: R-30 (WC)
USE: SF

KENNETH INVESTMENT LLC
PIN: 1757471559
DB 19248 PG 1884
LOT - BM 2007 PG 01224
ZONING: R-30 (WC)
USE: VA

GENERIC WOODEN PRIVACY FENCE 6' TALL
PHASE LINE (TYP.)
PROPERTY LINE (TYP.)
15.0' TYPE II PERIMETER BUFFER
LAG OTN (TYP.)
QUE CEN (TYP.)
CHI VIR (TYP.)
LOR 'C (TYP.)
PRU CSL (TYP.)
ACE FLD (TYP.)
RET. WALL BY OTHERS (TYP.)
ACE SCR (TYP.)
POLLINATOR GARDEN
TOWN OF ROLESVILLE PARKING CREEK INTERCEPTOR BM 1982 PG 1255
30.0' EXISTING
MATCH LINE
FOR CONTINUATION, SEE L-1.2
BALLFIELD
THE OVERHEAD POWER WILL BE RELOCATED
LAG PXC (TYP.)
CAR FST (TYP.)
30.0' STREET YARD BUFFER
LAG OTN (TYP.)
CAR OCR (TYP.)
LOR 'C (TYP.)
PRU CSL (TYP.)
ILE CON (TYP.)
STREET LIGHT (TYP.)
10.0' WIDE PRIVATE MULTI-USE PATHWAY
20.0' BUFFER ZONE 2 (TYP.)
30.0' BUFFER ZONE 1 (TYP.)
SWAMP/MARSH HARRIS CREEK
SMALL IPEMA PLAYGROUND 2
SCM #6 WET POND
STREAM A "HARRIS CREEK"
MATCH LINE
FOR CONTINUATION, SEE L-1.4
100YR
W1
WTLD

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.



SITE KEY PLAN

LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.

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SEAL

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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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SCALE	AS SHOWN
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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PARTIAL LANDSCAPE PLAN I

DRAWING SHEET
L-1.1

147 OF 230

RS RENTAL II LLC
PIN: 1757584724
DB 18703 PG 2414
BM 1981 PG 894
ZONING: R-30 (WC)
USE: SF

KAREN E. BASS
PIN: 1757586704
DB 12560 PG 1626
BM 1984 PG 943
ZONING: R-30 (WC)
USE: SF

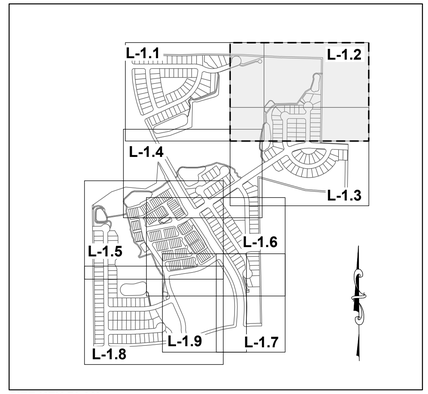
JAMES K. WILLIAMS
PIN: 1757588784
DB 16784 PG 1013
BM 1989 PG 01474
ZONING: R-30 (WC)
USE: VA

GRO PEG PROPERTIES LLC
PIN: 1757684697
DB 18359 PG 1707
LOT 5 - BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

SCOTT & THERESA CARLE
PIN: 1757675786
DB 14863 PG 2493
LOT 4A- BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

GRO PEG RD
60' PRIVATE R/W
RECORDED BOOK OF MAPS
1980 PAGE 396

ACE SCR (TYP.)
15.0' TYPE II PERIMETER BUFFER
TOWN OF ROLESVILLE HARRIS CREEK INTERCEPTOR BM 1992 PG 0042
30.0' EXISTING
POLLINATOR GARDEN
MATCH LINE
FOR CONTINUATION, SEE L-1.1
100YR
WTLD
W1
SWAMP/MARSH
HARRIS CREEK
BUFFER ZONE 1 (TYP.)
20.0'
30.0'
STREAM A
"HARRIS CREEK"
FLOODWAY
FRIS MAP # 3720175700K
PANEL # 1757
EFFECTIVE DATE: 07/19/2022
PHASE LINE (TYP.)
GENERIC WOODEN
PRIVACY FENCE 6' TALL
PROPERTY LINE (TYP.)
10.0'
GREENWAY TRAIL
SCM #5
WET POND
SWAMP/MARSH
HARRIS CREEK
RET. WALL BY OTHERS (TYP.)
10.0' GREENWAY
30.0' GREENWAY EASEMENT
PARKOUR COURSE
NYS SYL (TYP.)
STREET LIGHT (TYP.)
QUE CEN (TYP.)
ACE FLD (TYP.)
PIS SAR (TYP.)
LOR' 'C (TYP.)
PRU CSL (TYP.)
QUE SHU (TYP.)
CHI VIR (TYP.)
AME LKG (TYP.)
15.0' TYPE II
PERIMETER BUFFER
MATCH LINE
FOR CONTINUATION, SEE L-1.3
10.0' GREENWAY TRAIL
SCM #4
WET POND



SITE KEY PLAN

LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PARTIAL LANDSCAPE PLAN II

DRAWING SHEET
L-1.2

148 OF 230

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PROGRESS PLOT DATE: 8/29/2025

SWAMP/MARSH
HARRIS CREEK

STREAM A "HARRIS CREEK"

MATCH LINE
FOR CONTINUATION, SEE L-1.2

SCM #4
WET POND

10.0'
GREENWAY TRAIL

MATCH LINE
FOR CONTINUATION, SEE L-1.4

0.2% ANNUAL CHANCE
FLOOD HAZARD

10.0'
GREENWAY

30.0'
GREENWAY EASEMENT

10.0'
GREENWAY

CHI VIR (TYP.)

AME LKG (TYP.)

ACE FLD (TYP.)

PIS SAR (TYP.)

QUE CEN (TYP.)

15.0'
TYPE II PERIMETER BUFFER

GENERIC WOODEN
PRIVACY FENCE 6' TALL

PROPERTY LINE (TYP.)

STREET LIGHT (TYP.)

NYS SYL (TYP.)

SMALL IPEMA
PLAYGROUND 1

RET. WALL BY OTHERS (TYP.)

QUE SHU (TYP.)

SCOTT & THERESA CARLE
PIN: 1757675786
DB 14863 PG 2493
LOT 4A- BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

GRO PEG ROAD
80' PRIVATE R/W
RECORDED BOOK OF MAPS 1980 PAGE 396

FUTURE GRO PEG
RD IMPROVEMENTS
TO BE DETERMINED

PHASE LINE (TYP.)

STREAM H

30.0' STREET YARD
BUFFER

LAWN AND
NATURAL AREAS

LAWN AND
NATURAL AREAS

BUFFER ZONE 1 (TYP.)
30.0'

BUFFER ZONE 2 (TYP.)
20.0'

MT. CALVARY HOLINESS
CHURCH OF WAKE CO. INC
PIN: 1757660324
DB 10124 PG 2778
LOT 1- BM 2002 PG 991
ZONING: R-30 (WC)
USE: VA

15.0'
TYPE II PERIMETER BUFFER

GRO PEG PROPERTIES
PIN: 1757664956
DB 19081 PG 2786
LOT 2A- BM 1982 PG 00581
ZONING: R-30 (WC)
USE: VA

GENERIC WOODEN
PRIVACY FENCE 6' TALL

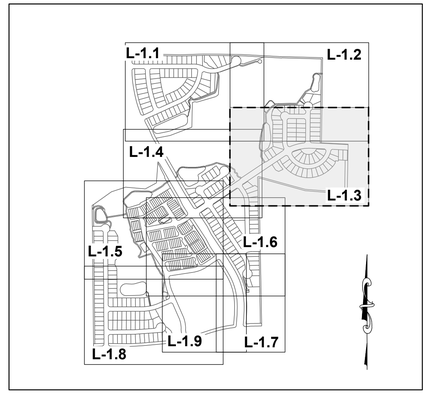
QUE CEN (TYP.)

15.0' TYPE II
PERIMETER BUFFER

PRU CSL (TYP.)

LOR' 'C (TYP.)

AMENITY CENTER



SITE KEY PLAN

LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL LANDSCAPE PLAN III

DRAWING
SHEET

L-1.3

149 OF 230

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PROGRESS PLOT DATE: 8/29/2025

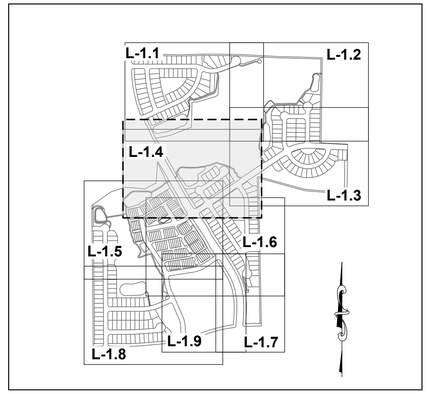
TOWNHOME NOTES:

STATES INTERNAL TOWNHOME DRIVEWAYS ARE PRIVATE EASEMENTS AS PER CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT

SITE KEY PLAN

LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

MATCH LINE
FOR CONTINUATION, SEE L-1.1

MATCH LINE
FOR CONTINUATION, SEE L-1.3

MATCH LINE
FOR CONTINUATION, SEE L-1.5

BRIDGE

W1

SWAMP/MARSH
HARRIS CREEK

W3

PHASE LINE (TYP.)

STREAM A "HARRIS CREEK"

PROPERTY LINE (TYP.)

PROPOSED OVERHEAD POWER RELOCATION

SCM #3
WET POND

SCM #7
WET POND

BUFFER ZONE 1 (TYP.) 20.0'

BUFFER ZONE 2 (TYP.) 20.0'

0.2% ANNUAL CHANCE FLOOD HAZARD

RET. WALL BY OTHERS (TYP.)

10.0' GREENWAY TRAIL

10.0' BERM

30.0' GREENWAY EASEMENT

10.0' GREENWAY

EXISTING 30' TOWN OF ROLESVILLE HARRIS CREEK RIVER EASEMENT FOR BM 1997 PG 0837

GIN AUT (TYP.)

LAG OTN (TYP.)

AME LKG (TYP.)

ILE CON (TYP.)

CAR OCR (TYP.)

STREET LIGHT (TYP.)

GLE TTI (TYP.)

QUE CEN (TYP.)

GENERIC WOODEN PRIVACY FENCE 6' TALL

15.0' TYPE II PERIMETER BUFFER

PRU CSL (TYP.)

LOR 'C (TYP.)

CHI VIR (TYP.)

ACE FLD (TYP.)

AME LKG (TYP.)

AMENITY CENTER

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL LANDSCAPE PLAN IV

DRAWING SHEET

L-1.4

150 OF 230

PROGRESS PLOT DATE: 8/29/2025

TOWNHOME NOTES:

STATES INTERNAL TOWNHOME DRIVEWAYS ARE PRIVATE EASEMENTS AS PER CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT

MATCH LINE
FOR CONTINUATION, SEE L-1.4

STREAM A "HARRIS CREEK"

KENNETH INVESTMENT LLC.
PIN: 1757368816
DB 19248 PG 1884
ZONING: R-30 (WC)
USE: VA

MEGAN KULAWIAK
PIN: 1757367367
DB 16226 PG 1133
LOT 6
BM 1990 PG 00387
ZONING: R-30 (WC)
USE: VA

SCM #7 WET POND

SCM #8 WET POND

10.0' GREENWAY TRAIL

10.0' BERM

10' BOARDWALK

STREAM I

STREAM G

STREAM J

W3

W4

W6

30.0' BUFFER ZONE 1 (TYP.)

20.0' BUFFER ZONE 2 (TYP.)

RET. WALL BY OTHERS (TYP.)

TIL AME (TYP.)

GENERIC WOODEN PRIVATE FENCE 6' TALL

PRU CSL (TYP.)

ACE FLD (TYP.)

QUE CEN (TYP.)

LOR 'C (TYP.)

CHI VIR (TYP.)

PROPERTY LINE (TYP.)

AME LKG (TYP.)

PHASE LINE (TYP.)

15.0' TYPE II PERIMETER BUFFER

POCKET PARK II

POCKET PARK I

STREET LIGHT (TYP.)

CLA LUT (TYP.)

PLA OCC (TYP.)

EXISTING DRAINED POND

30.0' STREET YARD BUFFER

ILE CON (TYP.)

LAG OTN (TYP.)

AME LKG (TYP.)

CAR OCR (TYP.)

CHI VIR (TYP.)

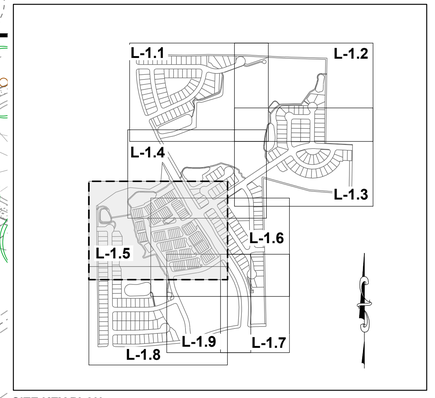
PRU CSL (TYP.)

GLE TTI (TYP.)

PROPOSED OVERHEAD POWER RELOCATION

MATCH LINE
FOR CONTINUATION, SEE L-1.6

MATCH LINE
FOR CONTINUATION, SEE L-1.8



SITE KEY PLAN LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

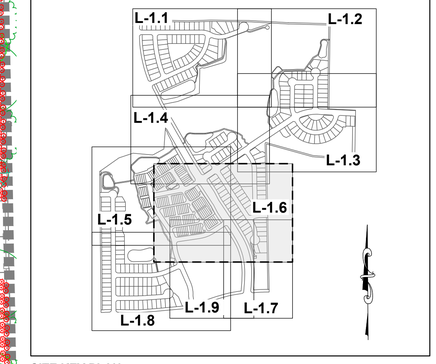
PARTIAL LANDSCAPE PLAN V

DRAWING SHEET
L-1.5

151 OF 230

PROGRESS PLOT DATE: 8/29/2025

ILE CON (TYP.)
LOR 'C (TYP.)
AME LKG (TYP.)
CAR OCR (TYP.)
CHI VIR (TYP.)
LAG OTN (TYP.)
STREET LIGHT (TYP.)
CLA LUT (TYP.)
POCKET PARK II
30.0' STREET YARD BUFFER
PRU CSL (TYP.)
PROPOSED OVERHEAD POWER RELOCATION
POCKET PARK I
PLA OCC (TYP.)
MATCH LINE
FOR CONTINUATION, SEE L-1.5
AMENITY CENTER
AME LKG (TYP.)
LOR 'C (TYP.)
PRU CSL (TYP.)
CHI VIR (TYP.)
PHASE LINE (TYP.)
PROPERTY LINE (TYP.)
GENERIC WOODEN PRIVATE FENCE 6' TALL
15.0'
TYPE II PERIMETER BUFFER
ACE FLD (TYP.)
GLE TTI (TYP.)
30.0' STREET YARD BUFFER
QUE CEN (TYP.)
RET. WALL BY OTHERS (TYP.)
GLE TTI (TYP.)
MATCH LINE
FOR CONTINUATION, SEE L-1.7
WTLD
10.0' GREENWAY
30.0' GREENWAY EASEMENT
CLA LUT (TYP.)
TIL AME (TYP.)
MATCH LINE
FOR CONTINUATION, SEE L-1.8
30.0' STREET YARD BUFFER
CRICKET PITCH
STREAM G
30.0' BUFFER ZONE 1 (TYP.)
20.0' BUFFER ZONE 2 (TYP.)



SITE KEY PLAN

LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.

TOWNHOME NOTES:

STATES INTERNAL TOWNHOME DRIVEWAYS ARE PRIVATE EASEMENTS AS PER CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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SEAL:

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

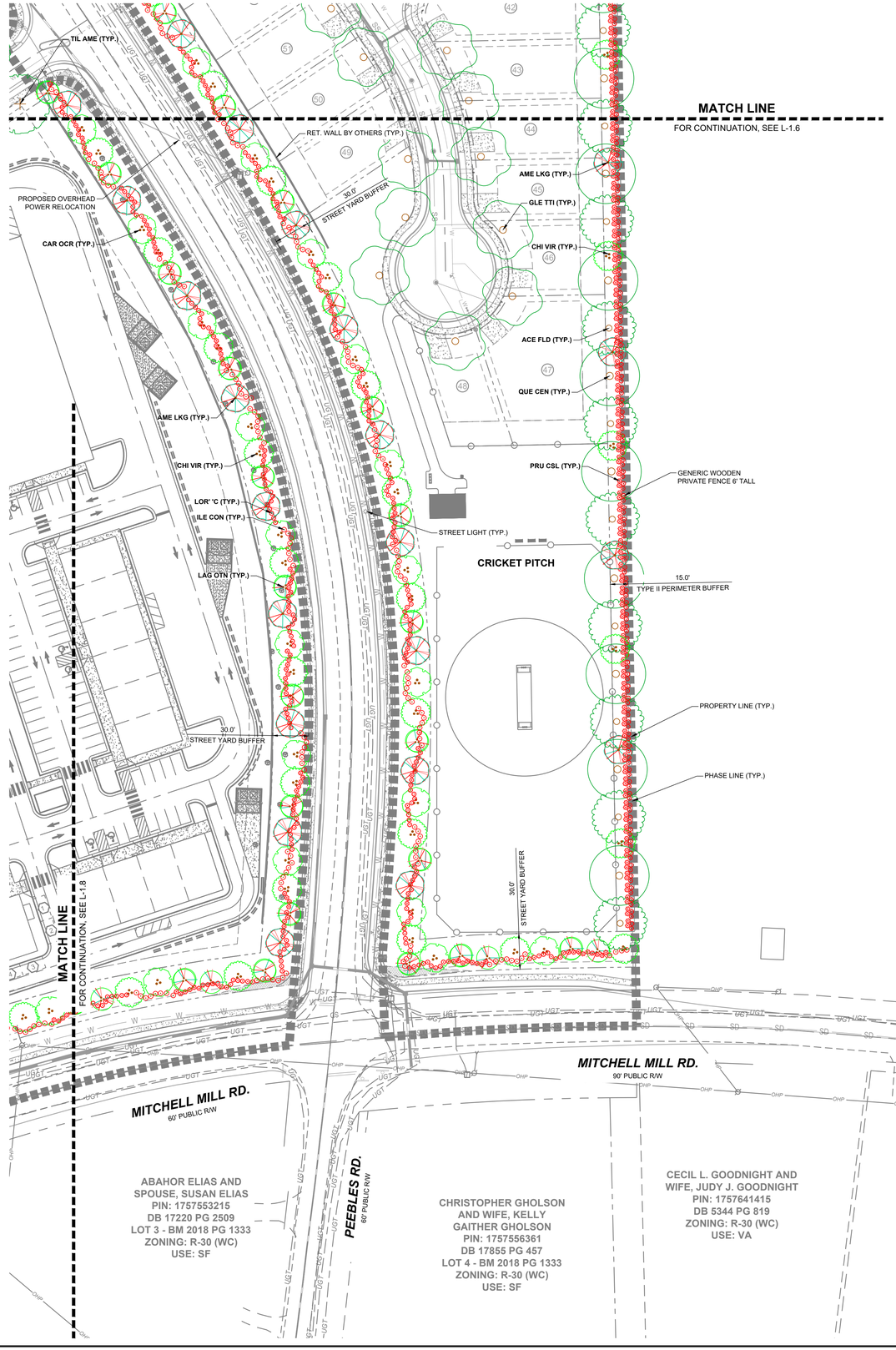
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

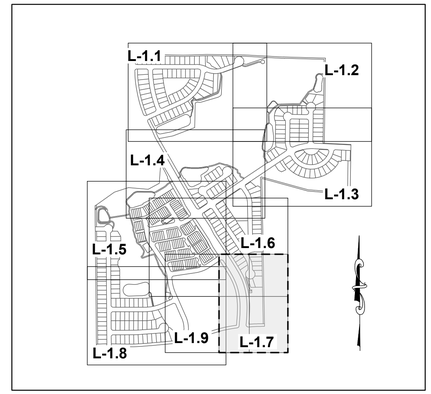
PARTIAL LANDSCAPE PLAN VI

DRAWING SHEET

L-1.6

152 OF 230





SITE KEY PLAN

LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

No.	REVISIONS	DATE	BY
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SEAL:

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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL LANDSCAPE PLAN VII

DRAWING SHEET

L-1.7

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PROGRESS PLOT DATE: 8/29/2025

EXISTING DRAINED POND

BETTERMAN DRIVE
50' PUBLIC R/W

RET. WALL BY OTHERS (TYP.)

MATCH LINE
FOR CONTINUATION, SEE L-1.5

SCM #1
WET POND

10.0' BENT

10.0' GREENWAY

30.0' GREENWAY EASEMENT

NEIGHBORHOOD PARK

PRIMITIVE TRAIL

MARCIE L. HOLDEN
PIN: 1757358908
DB 15599 PG 1003
LOT 5
BM 1990 PG 956
ZONING: R-30 (WC)
USE: SF

BERNARD MILLER
PIN: 1757357865
DB 15416 PG 1651
LOT 4
BM 1990 PG 956
ZONING: R-30 (WC)
USE: SF

TOUTLOFF, KENNETH S. TOUTLOFF, BILLIE ANNE
PIN: 1757357764
DB 9236 PG 2229
LOT 3
BM 1990 PG 956
ZONING: R-30 (WC)
USE: SF

PERR Y,ELWOOD RYAN
PIN: 1757357582
DB 19292 PG 2780
ZONING: R-30 (WC)
USE: MO

QUE CEN (TYP.)

ACE FLD (TYP.)

15.0' TYPE II PERIMETER BUFFER

LOR' 'C (TYP.)

AME LKG (TYP.)

GENERIC WOODEN PRIVATE FENCE 6' TALL

PRU CSL (TYP.)

CHI VIR (TYP.)

TIL AME (TYP.)

PIS SAR (TYP.)

STREET LIGHT (TYP.)

STREAM G

30.0' BUFFER ZONE 1 (TYP.)

20.0' BUFFER ZONE 2 (TYP.)

MATCH LINE
FOR CONTINUATION, SEE L-1.7

LAG PXC (TYP.)

PLA OCC (TYP.)

30.0' STREET YARD BUFFER

LOR' 'C (TYP.)

PRU CSL (TYP.)

AME LKG (TYP.)

LAG OTN (TYP.)

LAG TON (TYP.)

CAR OCR (TYP.)

PRU CSL (TYP.)

PHASE LINE (TYP.)

PROPERTY LINE (TYP.)

MITCHELL MILL RD.
60' PUBLIC R/W

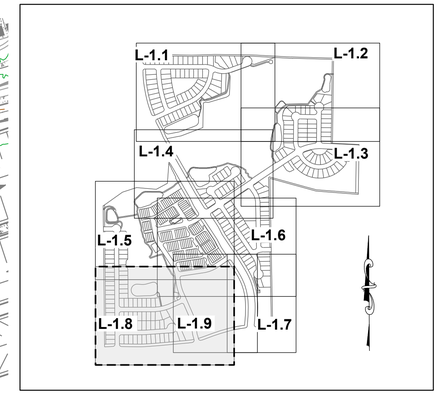
PROPERTY LINE (TYP.)

PHASE LINE (TYP.)

PHETIS JONES BRADSHER
PIN: 1757349473
DB 15208 PG 2320
BM 2013 PG 868
ZONING: R-30 (WC)
USE: FO

CURTIS L. HONEYCUTT AND WIFE TODD KENDALL
PIN: 1757540996
DB 19269 PG 2474
LOT 1 - BM 2018 PG 1333
ZONING: R-30 (WC)
USE: SF

TODD KENDALL HONEYCUTT
PIN: 1757551202
DB 13474 PG 1974
LOT 2 - BM 2018 PG 1333
ZONING: R-30 (WC)
USE: SF



SITE KEY PLAN

LEGEND:

SEE SHEET L-1.0 FOR TREE TABLES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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SEAL

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

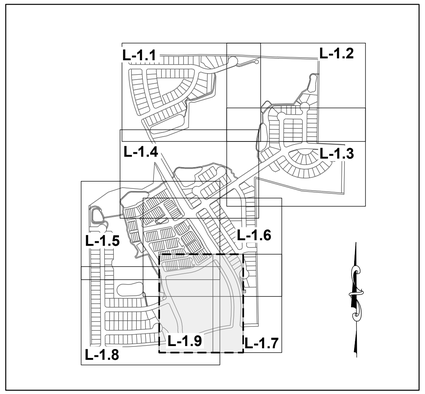
PARTIAL LANDSCAPE PLAN VIII

DRAWING SHEET

L-1.8

154 OF 230

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SITE KEY PLAN

LEGEND:

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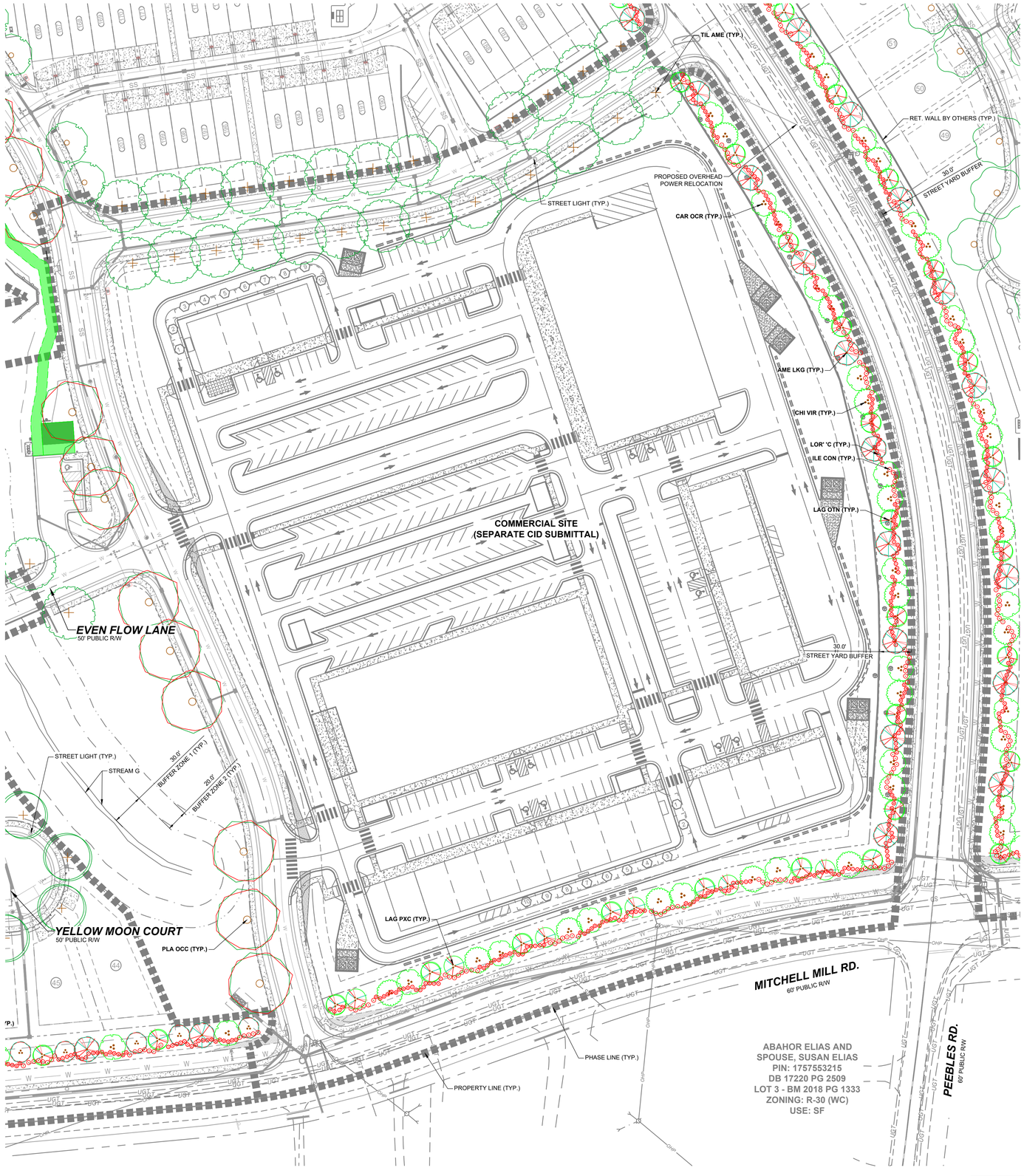
TOWNHOME NOTES:

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GRAPHIC SCALE

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SEAL:

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DRAWN BY	SRG
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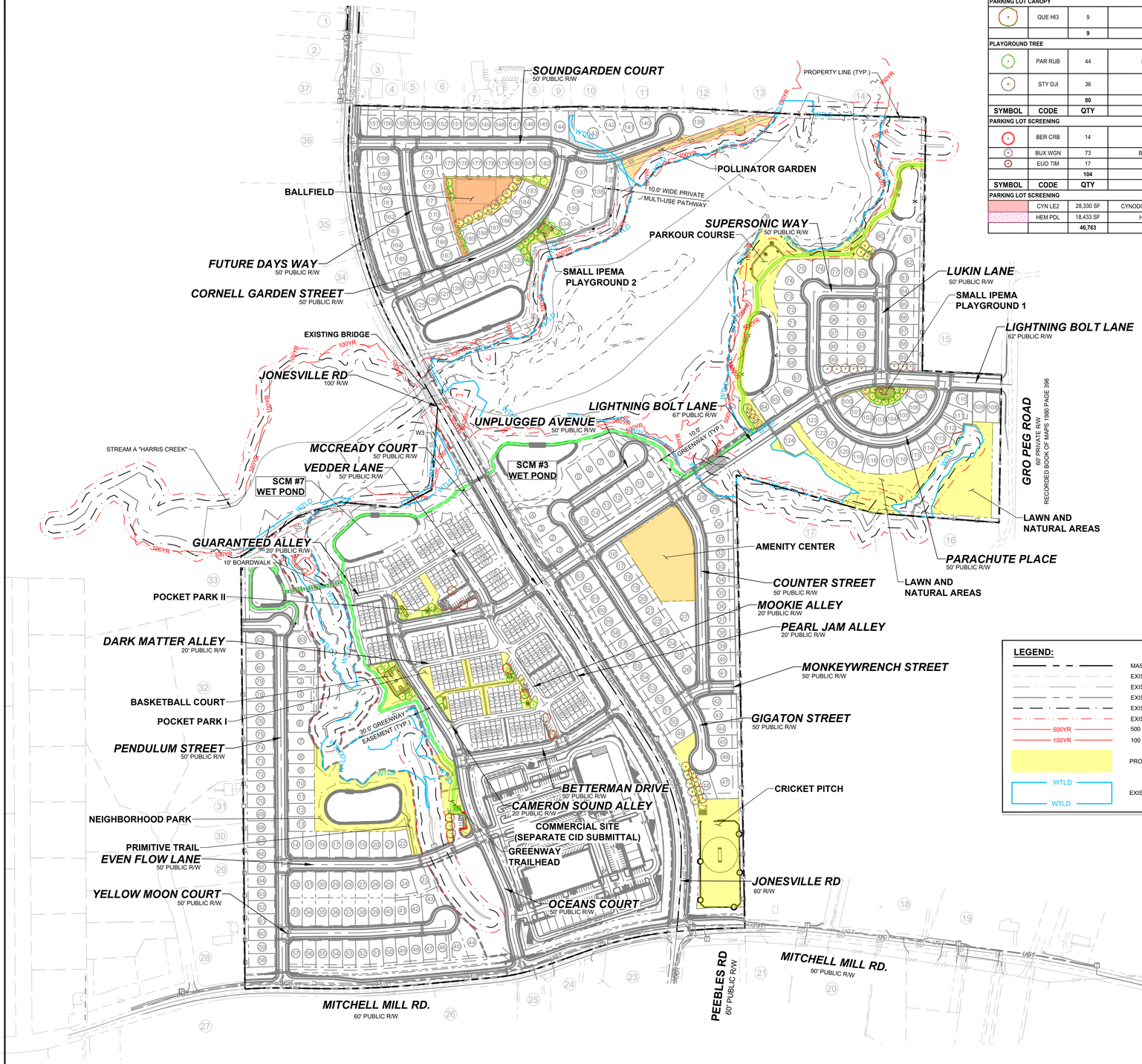
PARTIAL LANDSCAPE PLAN IX

DRAWING SHEET

L-1.9

155 OF 230

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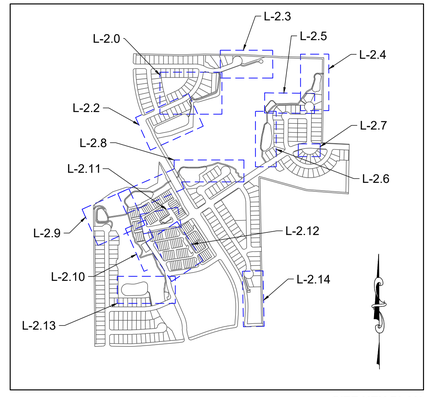
PLANT SCHEDULE OF AMENITIES OVERALL

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PARKING LOT CANOPY								
	QUE HI3	9	QUERCUS LYRATA 'QLFTB'	*HIGHBEAM® OVERCUP OAK*	8' HT.	B&B	3.0"	
		9	**SUBTOTAL:**					
PLAYGROUND TREE								
	PAR RUB	44	PARROTIA PERSICA 'INGE'S RUBY VASE'	*RUBY VASE PERSIAN PARROTIA*	10' HT.	B&B	3.0"	
	STY DJI	36	STYRAX JAPONICUS 'JFS-D'	*SNOWCONE® JAPANESE SNOWBELL*	8' HT.	B&B	3.0"	
		80	**SUBTOTAL:**					
SYMBOL	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**		**REMARKS**
PARKING LOT SCREENING								
	BER CRB	14	BERBERIS THUNBERGII 'CRIRUZAM'	*CRIMSON RUBY® JAPANESE BARBERRY*	3 GAL.	POT		
	BUX WGN	73	BUXUS SINICA INSULARIS 'WINTERGREEN'	*WINTERGREEN KOREAN BOXWOOD*	3 GAL.	POT		
	EUO TIM	17	EUONYMUS ALATUS 'TIMBER GREEK'	*CHICAGO FIRE™ BURNING BUSH*	3 GAL.	POT		
		104	**SUBTOTAL:**					
SYMBOL	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**	**SPACING**	**REMARKS**
PARKING LOT SCREENING								
	CYN LE2	28,330 SF	CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'	*TIFWAY 419 BERMUDAGRASS*	SOD	SOD	36" O.C.	FIELD TURF SOD 36 IN SECTIONS
	HEM PDL	18,433 SF	HEMEROCALLIS X 'PRAIRIE WILDFLOWER'	*PRAIRIE WILDFLOWER DAYLILY*	#SP2	POT	6" O.C.	USE POLLINATOR MIX 5LB BAG PER 6000 SF
		46,763	**SUBTOTAL:**					

SHEET	OPEN SPACE AREAS	SQUARE FEET	ACRES
	AMENITY CENTER - SEPARATE SUBMITTAL	65,780	1.51
L-2.1	BALLFIELD	45,842	1.05
L-2.10	BASKETBALL COURT	29,976	0.69
L-2.14	CRICKET PITCH	76,502	1.76
L-2.13	NEIGHBORHOOD PARK	83,713	1.92
L-2.12	POCKET PARK I	30,545	0.70
L-2.11	POCKET PARK II	16,362	0.38
L-2.1	SMALL IPEMA PLAYGROUND 2	8,742	0.20
L-2.7	SMALL IPEMA PLAYGROUND 1	9,855	0.23
L 2.5	PARKOUR COURSE	74,931	1.72
L-2.3	POLLINATOR GARDEN	47,045	1.08
L-2.1 & L-2.2	PRIMITIVE TRAIL	60,548	1.39
L-2.4 - L-2.9	GREENWAY + TRAIL HEAD	148,026	3.40

LEGEND:

- MASTER PLAN BOUNDARY
- EXISTING ADJOINER PROPERTY LINE
- EXISTING INTERMITTENT STREAM
- EXISTING PERENNIAL STREAM
- EXISTING BUFFER ZONE 1
- EXISTING BUFFER ZONE 2
- 500YR — 500 YEAR FLOOD LINE
- 100YR — 100 YEAR FLOOD LINE
- PROPOSED ACTIVE OPEN SPACE
- WTLD — EXISTING WETLAND



SITE KEY PLAN

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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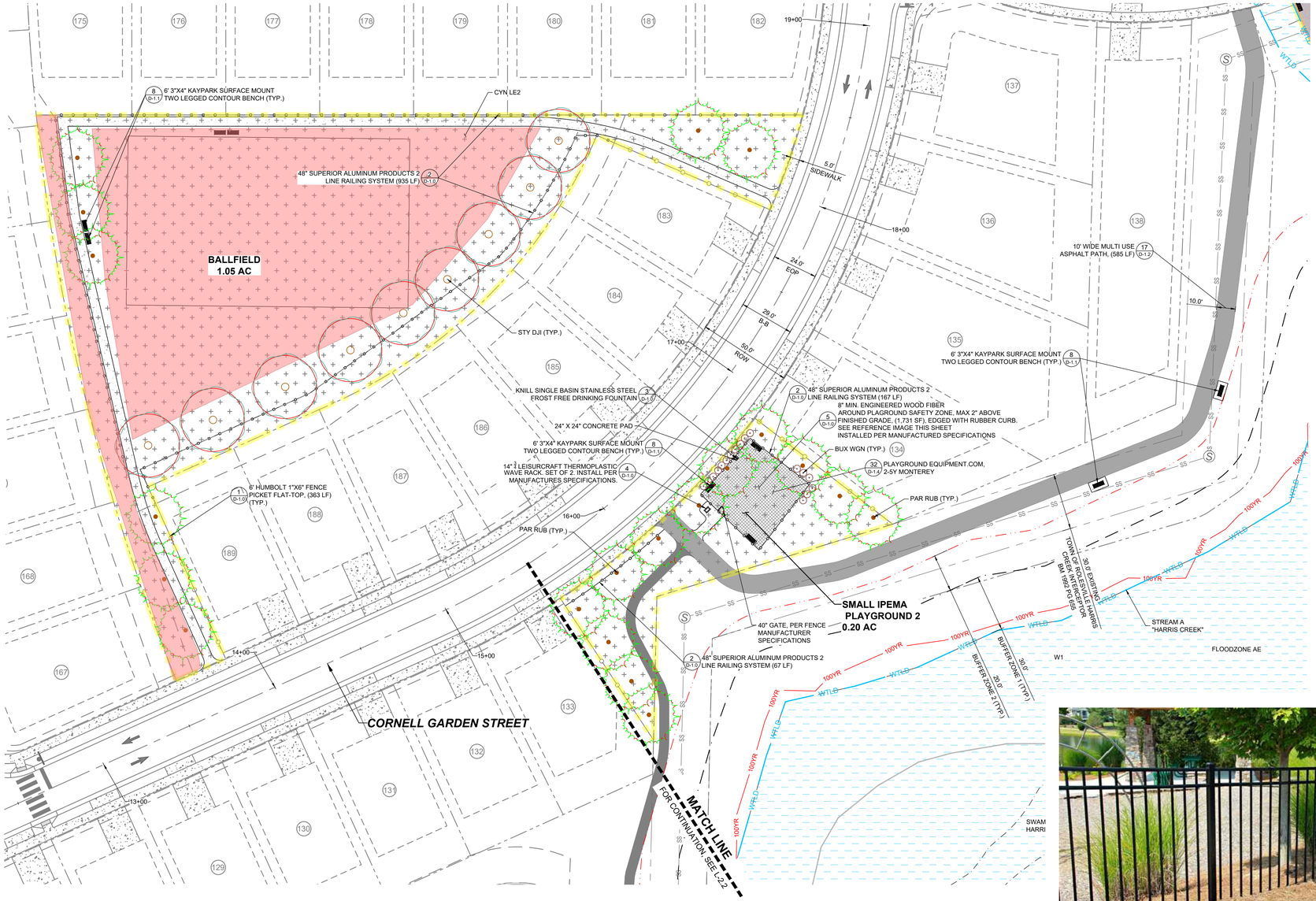
STRONG ROCK PROJECT	PSP-23-03
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
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CONSTRUCTION PLANS

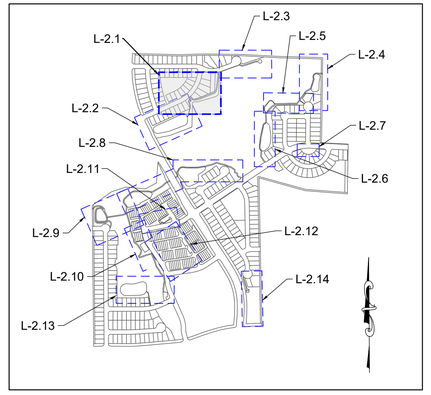
OVERALL AMENITIES PLAN

DRAWING SHEET

L-2.0



BALLFIELD & SMALL IPEMA PLAYGROUND PLAN



SITE KEY PLAN



EXAPLE OF PLAYGROUND



PLAYGROUND FENCE



PLAYGROUND RUBBER CURB

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING

PLANT SCHEDULE BALLPARK

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER		REMARKS
PLAYGROUND TREE									
	PAR RUB	20	PARROTIA PERSICA 'INGE'S RUBY VASE'	RUBY VASE PERSIAN PARROTIA	10' HT.	B&B	3.0"		
	STY DJI	9	STYRAX JAPONICUS 'JFS-D'	SNOWCONE® JAPANESE SNOWBELL	8' HT.	B&B	3.0"		
		29	SUBTOTAL:						
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER			REMARKS
PARKING LOT SCREENING									
	BUX WGN	17	BUXUS SINICA INSULARIS 'WINTERGREEN'	WINTERGREEN KOREAN BOXWOOD	3 GAL.	POT			
		17	SUBTOTAL:						
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER		SPACING	REMARKS
FIELD TURF									
	CYN LE2	28,330 SF	CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'	TIFWAY 419 BERMUDAGRASS	SOD	SOD		36" O.C.	FIELD TURF SOD 36 IN SECTIONS
		28,330 SF	SUBTOTAL:						

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

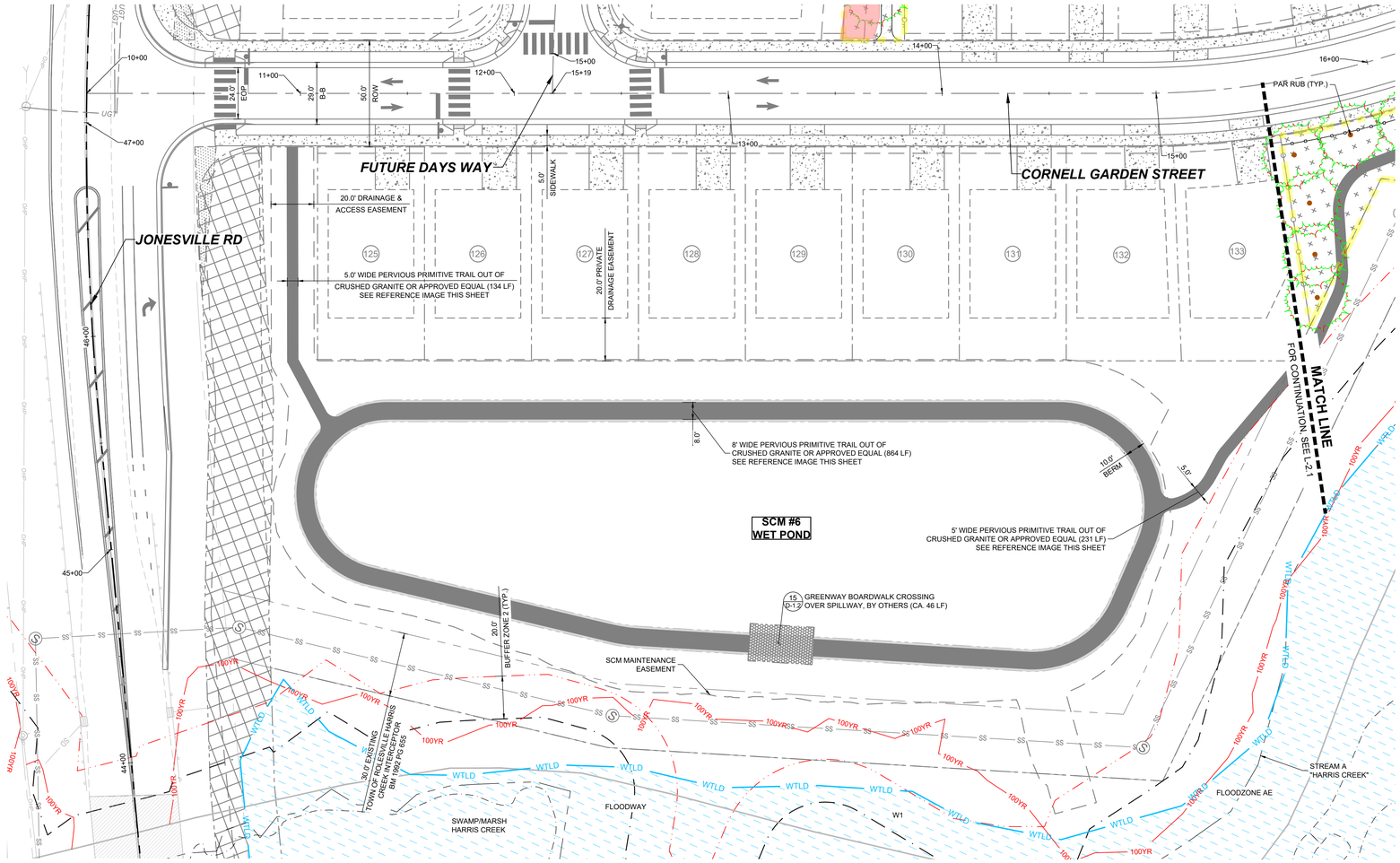
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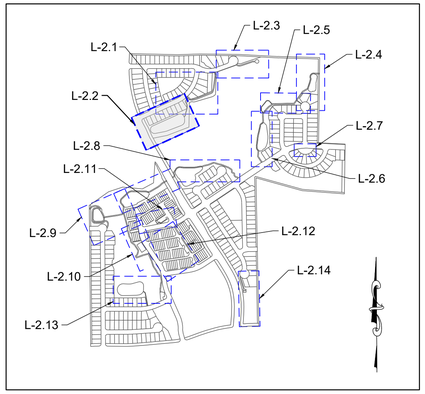
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

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CONSTRUCTION PLANS
BALLFIELD & SMALL IPEMA PLAYGROUND PLAN

DRAWING SHEET
L-2.1



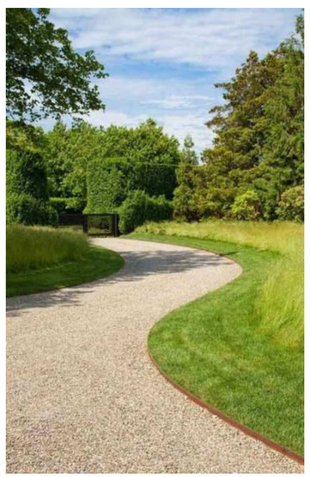
PRIMITIVE TRAIL



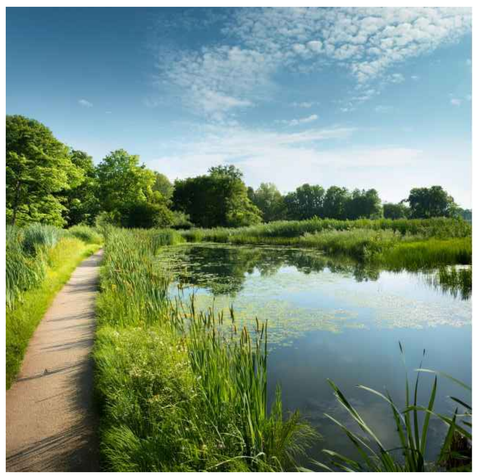
SITE KEY PLAN

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING



CRUSHED GRAVEL PATH



EXAMPLE OF PATH BY SCM

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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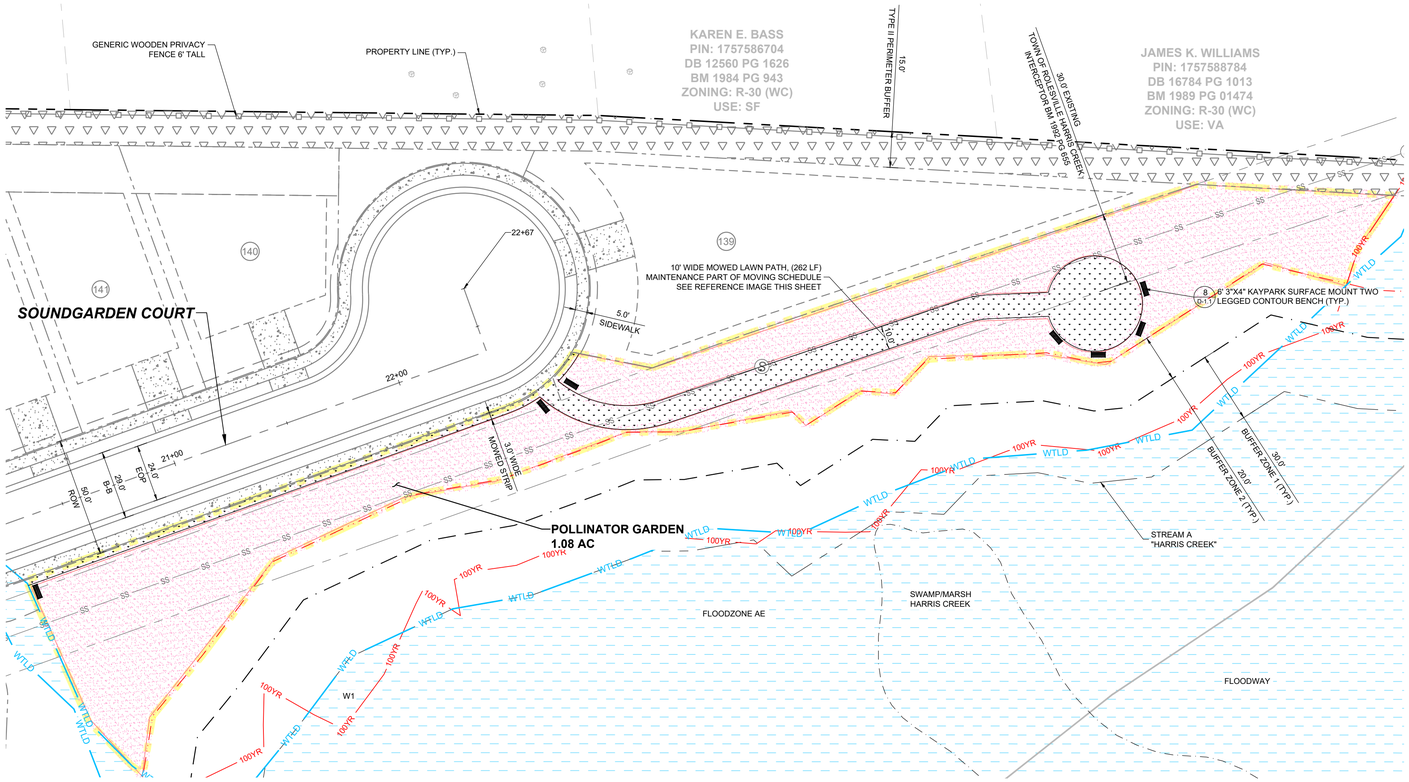
STRONG ROCK PROJECT P&P-23-03	NOT FOR CONSTRUCTION		
SCALE	AS SHOWN	DESIGNED BY	SRG
		DRAWN BY	SRG
		CHECKED BY	SRG

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CONSTRUCTION PLANS
PRIMITIVE TRAIL

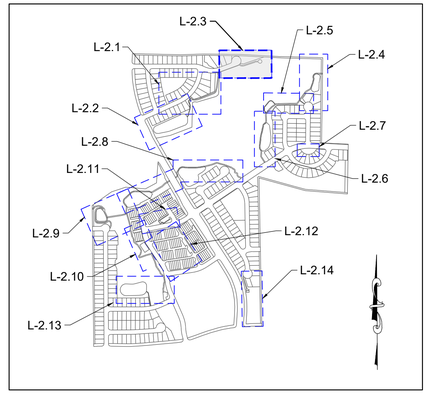
DRAWING SHEET
L-2.2

PLANT SCHEDULE POLLINATOR

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
POLLINATOP GARDEN								
	HEM PDL	18,433 SF	HEMEROCALLIS X 'PRAIRIE WILDFLOWER'	PRAIRIE WILDFLOWER DAYLILY	#SP2	POT	6"O.C.	USE POLLINATOR MIX 5LB BAG PER 6000 SF
		18,433 SF	**SUBTOTAL:**					



POLLINATOR GARDEN



SITE KEY PLAN

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING



MOWED LAWN PATH



EXAMPLE POLLINTOR GARDEN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

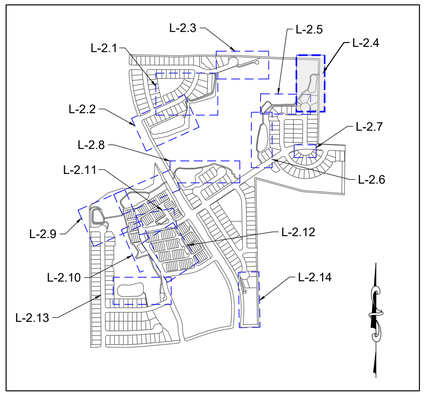
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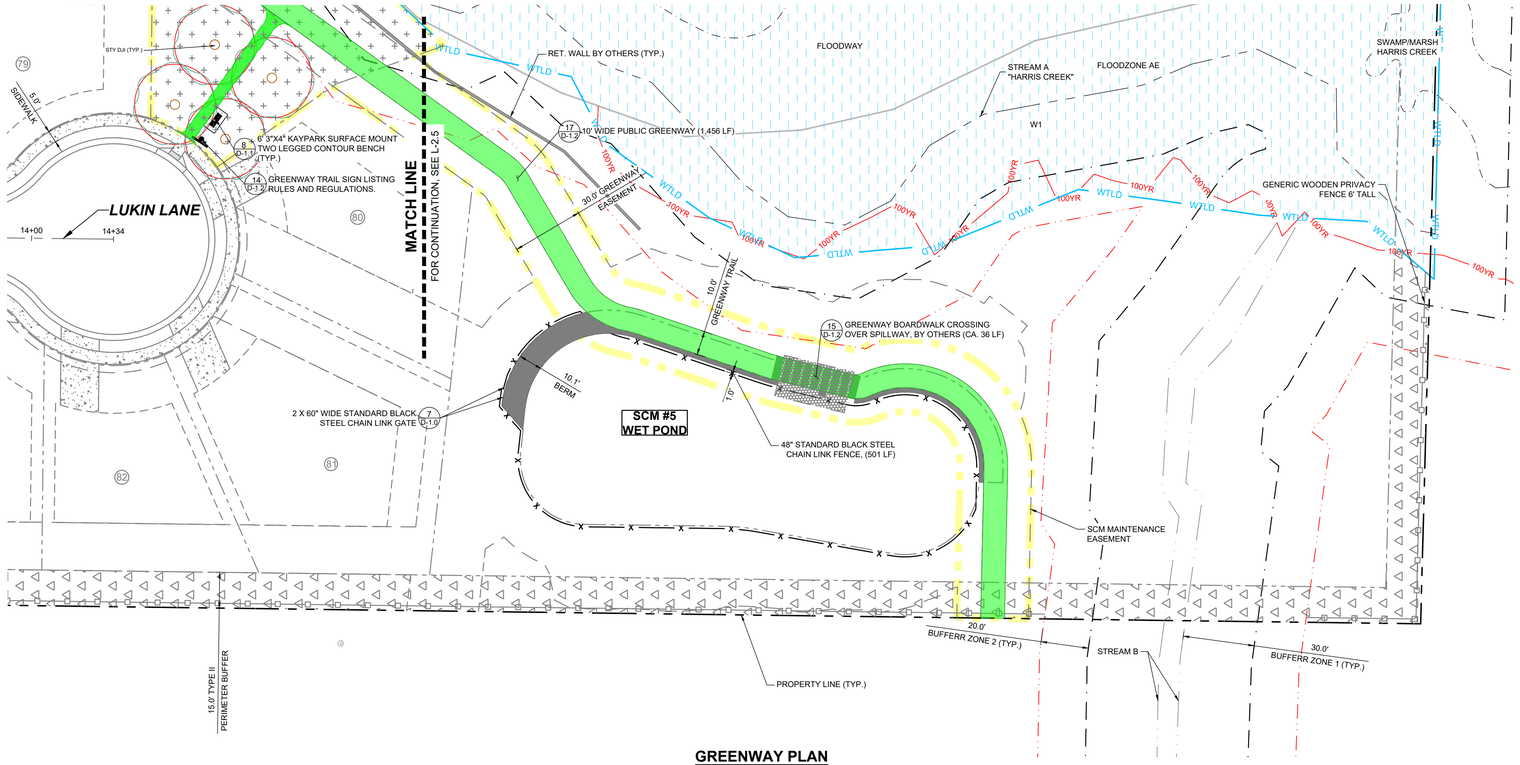
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CONSTRUCTION PLANS
POLLINATOR GARDEN

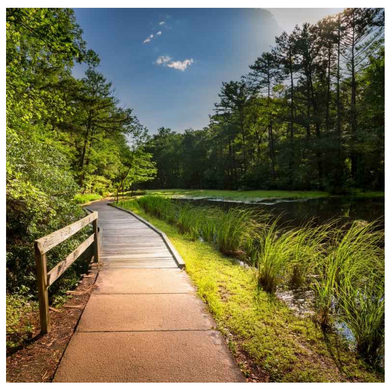
DRAWING SHEET
L-2.3



SITE KEY PLAN



GREENWAY PLAN



LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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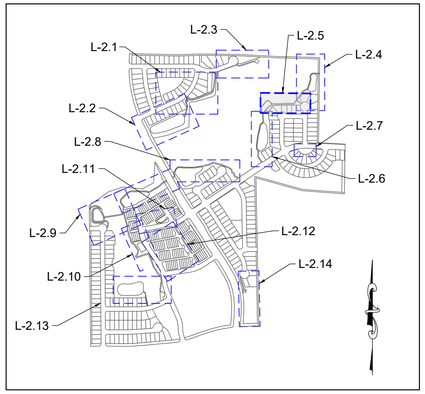
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TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
GREENWAY PLAN

DRAWING SHEET
L-2.4

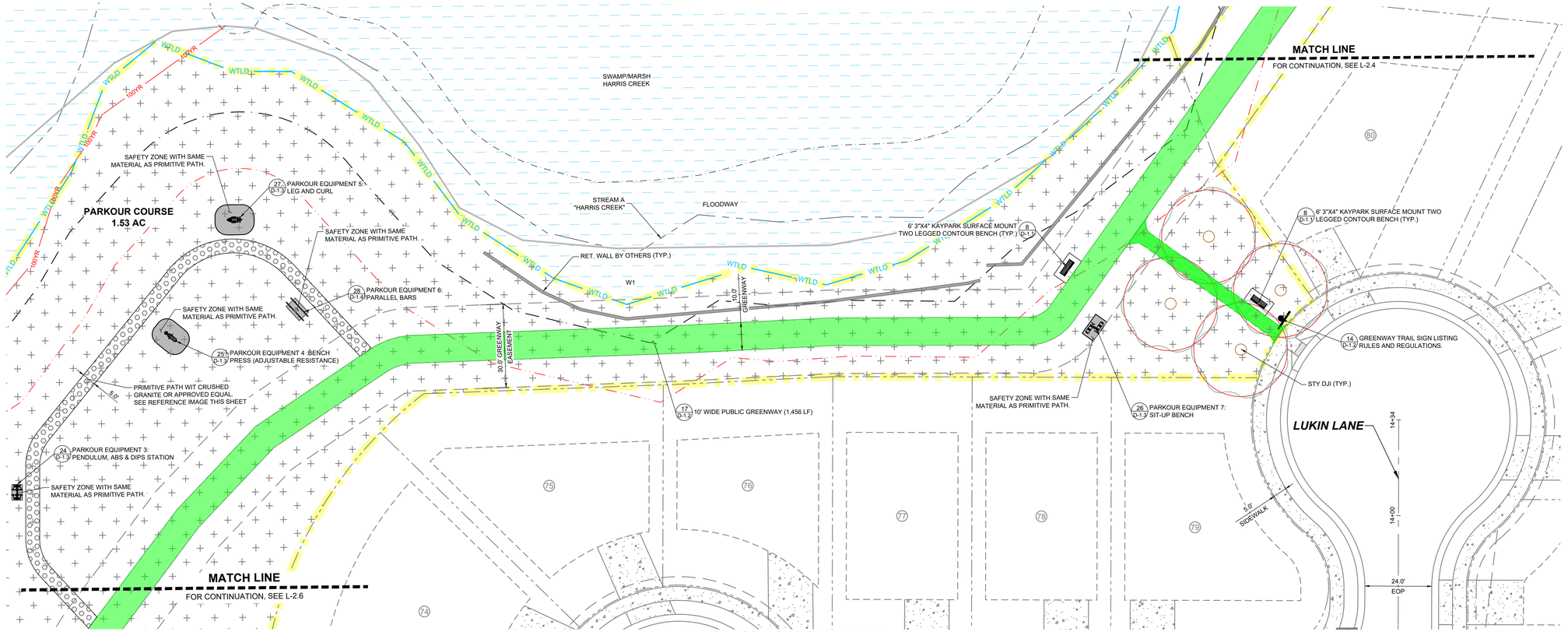
160 OF 230

PLANT SCHEDULE PARKOURNORTH

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PLAYGROUND TREE								
+	STY DJI	4	STYRAX JAPONICUS 'JFS-D'	SNOWCONE® JAPANESE SNOWBELL	8` HT.	B&B	3.0"	
		4	SUBTOTAL:					



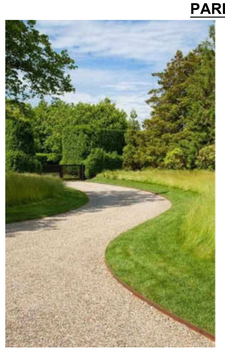
SITE KEY PLAN



PARKOUR COURSE & GREENWAY PLAN

LEGEND:

EXISTING PROPERTY LINE	ASPHALT PAVEMENT
500 YEAR FLOOD LINE	ACTIVE & PASSIVE OPEN SPACE
100 YEAR FLOOD LINE	30' STREET YARD BUFFER
SIGN	15' TYPE II PERIMETER BUFFER
STOP BAR	EXISTING WETLAND
ROADWAY CENTER LINE	AMENITY AREAS
PROPOSED PROPERTY LINE	GENERIC WOODEN PRIVACY FENCE
ROLESVILLE STANDARD VALLEY CURB	FENCE PICKET FLAT-TOP
STANDARD CURB & GUTTER	FENCING
GREENWAY	
CONCRETE SIDEWALK	



CRUSHED GRAVEL PATH



PARKOUR EXCERCIES EQUIPMENT

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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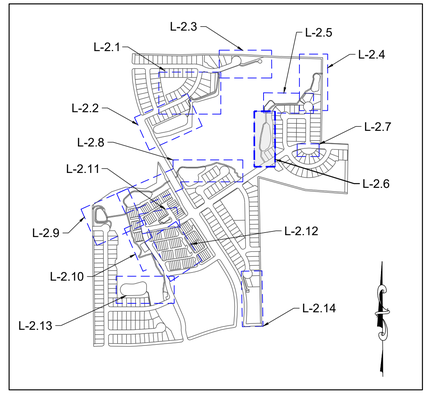
STRONG ROCK PROJECT	PSP-23-03
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PARKOUR COURSE & GREENWAY PLAN

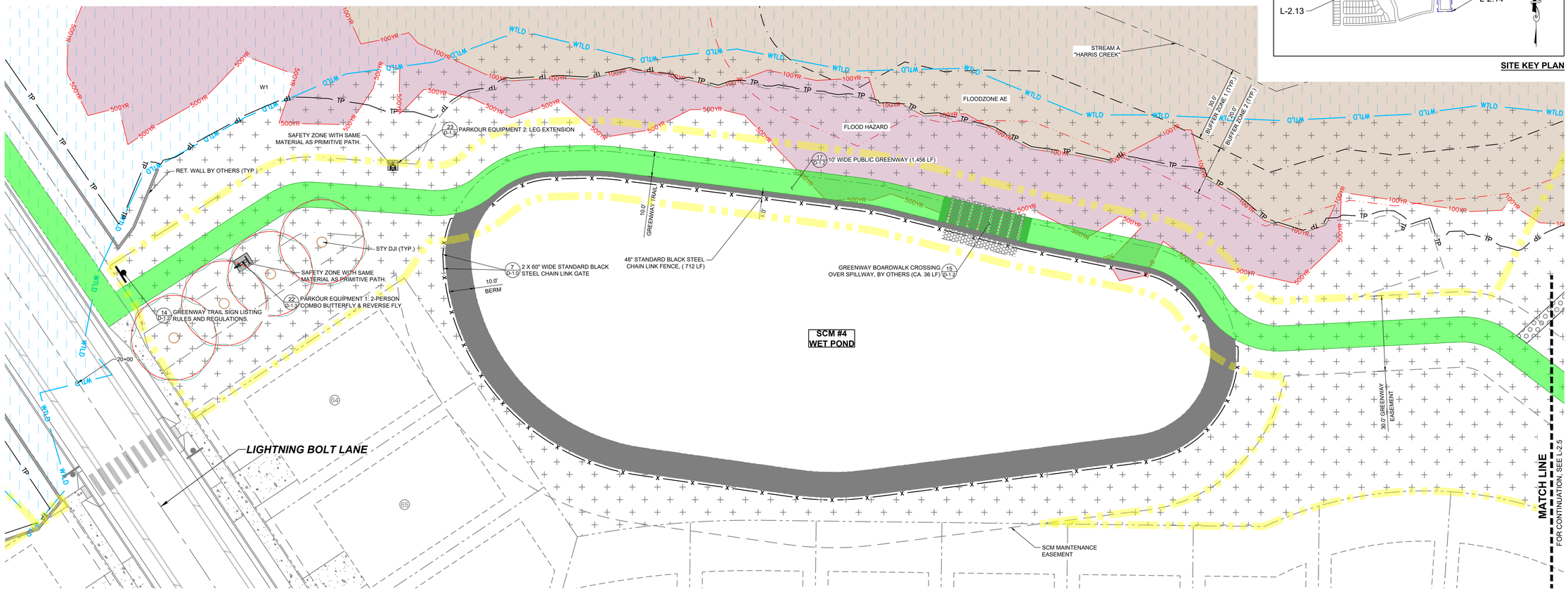
DRAWING SHEET
L-2.5

PLANT SCHEDULE PARKOURSOUTH

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PLAYGROUND TREE								
⊕	STY DJI	4	STYRAX JAPONICUS 'JFS-D'	SNOWCONE® JAPANESE SNOWBELL	8` HT.	B&B	3.0"	
		4	**SUBTOTAL:**					



SITE KEY PLAN



GREENWAY PLAN

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING



EXAMPLE GREENWAY PATH NEAR WETLAND & SCM

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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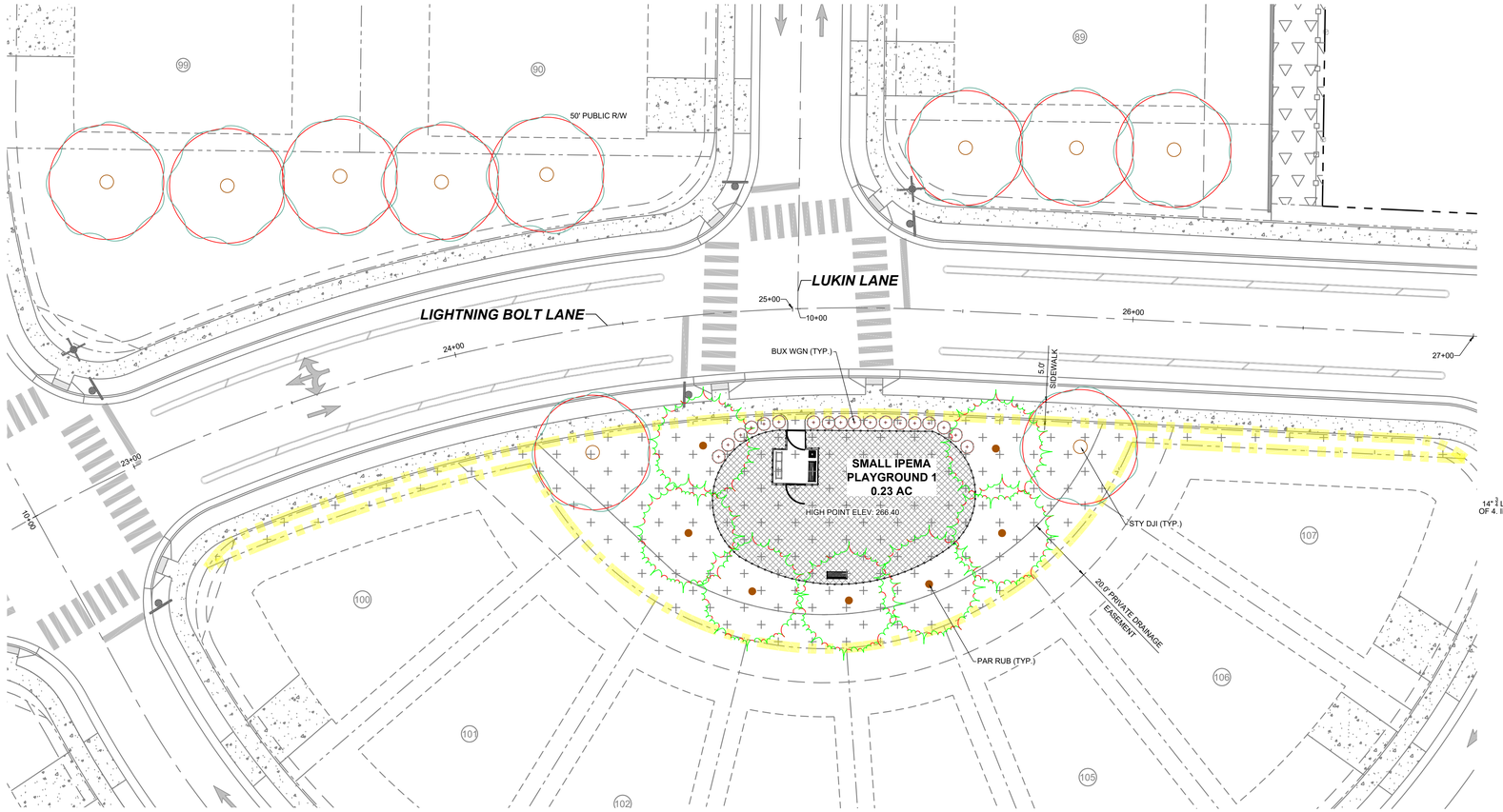
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DRAWN BY	SRG
CHECKED BY	SRG

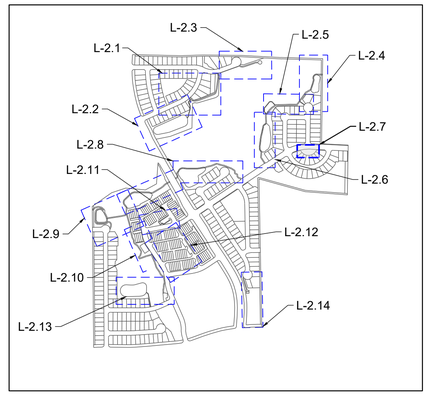
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
GREENWAY PLAN

DRAWING SHEET
L-2.6

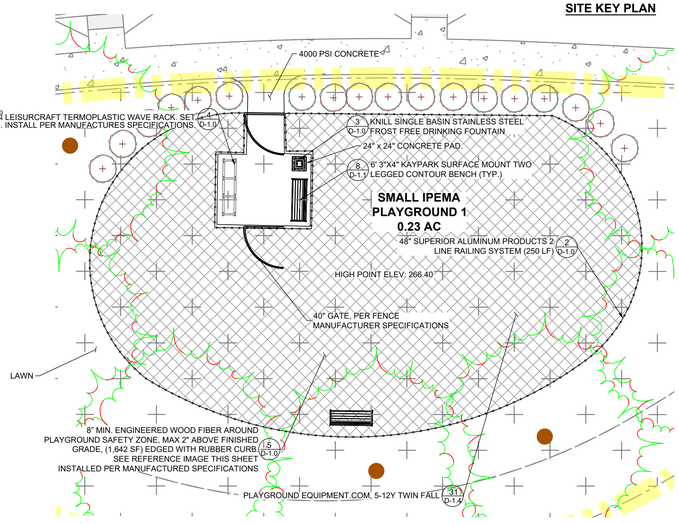
PROGRESS PLOT DATE: 8/29/2025



SMALL IPEMA PLAYGROUND 1 PLAN



SITE KEY PLAN

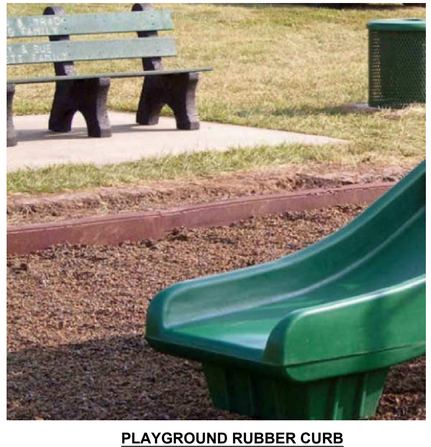


PLANT SCHEDULE PLAYGROUND 1

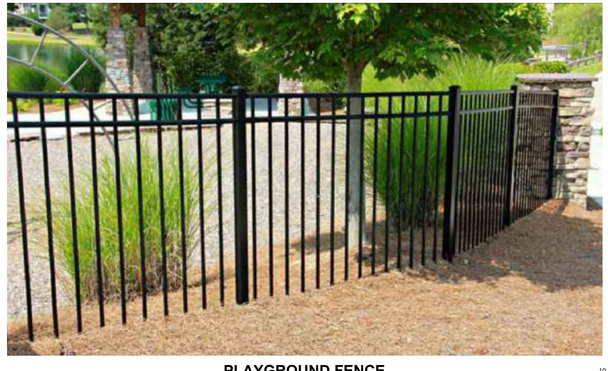
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PLAYGROUND TREE								
	PAR RUB	7	PARROTIA PERSICA 'INGE'S RUBY VASE'	RUBY VASE PERSIAN PARROTIA	10' HT.	B&B	3.0"	
	STY DJI	10	STYRAX JAPONICUS 'JFS-D'	SNOWCONE® JAPANESE SNOWBELL	8' HT.	B&B	3.0"	
		17	**SUBTOTAL:**					
SYMBOL	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**HEIGHT**	**CONTAINER**	**CALIPER**	**REMARKS**
PARKING LOT SCREENING								
	BUX WGN	18	BUXUS SINICA INSULARIS 'WINTERGREEN'	WINTERGREEN KOREAN BOXWOOD	3 GAL.	POT		
		18	**SUBTOTAL:**					



EXAMPLE OF PLAYGROUND EQUIPMENT



PLAYGROUND RUBBER CURB



PLAYGROUND FENCE

LEGEND:

- EXISTING PROPERTY LINE
- 500YR — 500 YEAR FLOOD LINE
- 100YR — 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- WTLD — EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- X — X — FENCING

GRAPHIC SCALE

10 0 05 10 20 40

(IN FEET)
1 inch = 10 ft.

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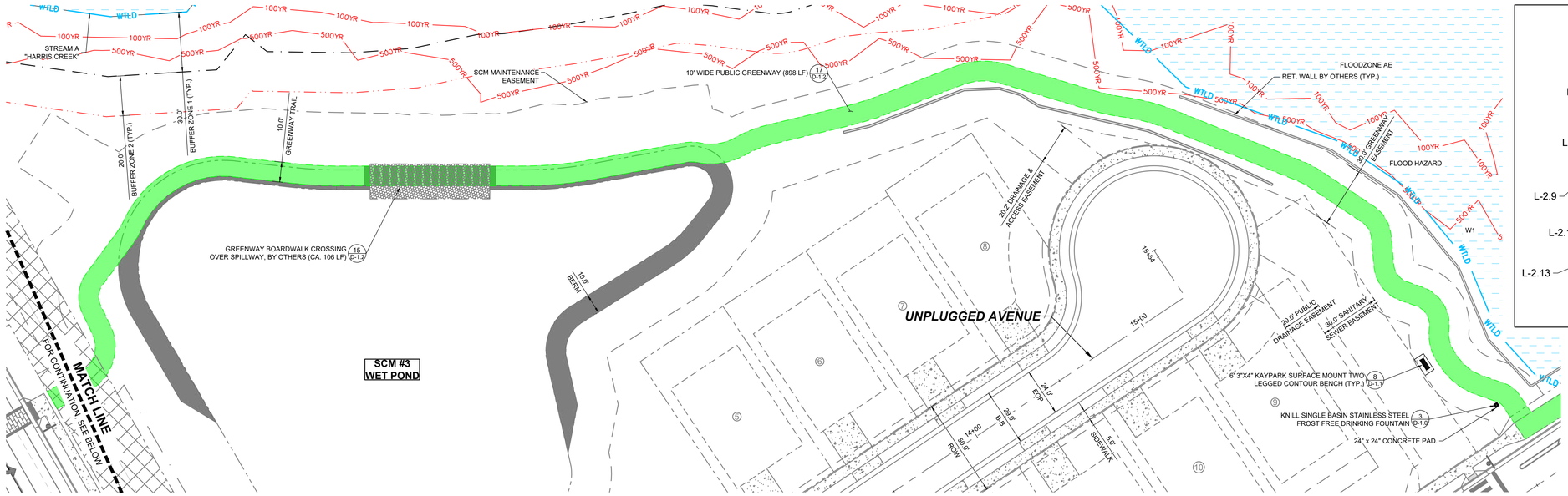
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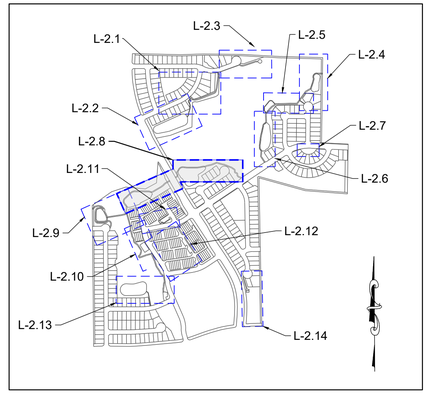
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CONSTRUCTION PLANS
SMALL IPEMA PLAYGROUND 1 PLAN

DRAWING SHEET
L-2.7

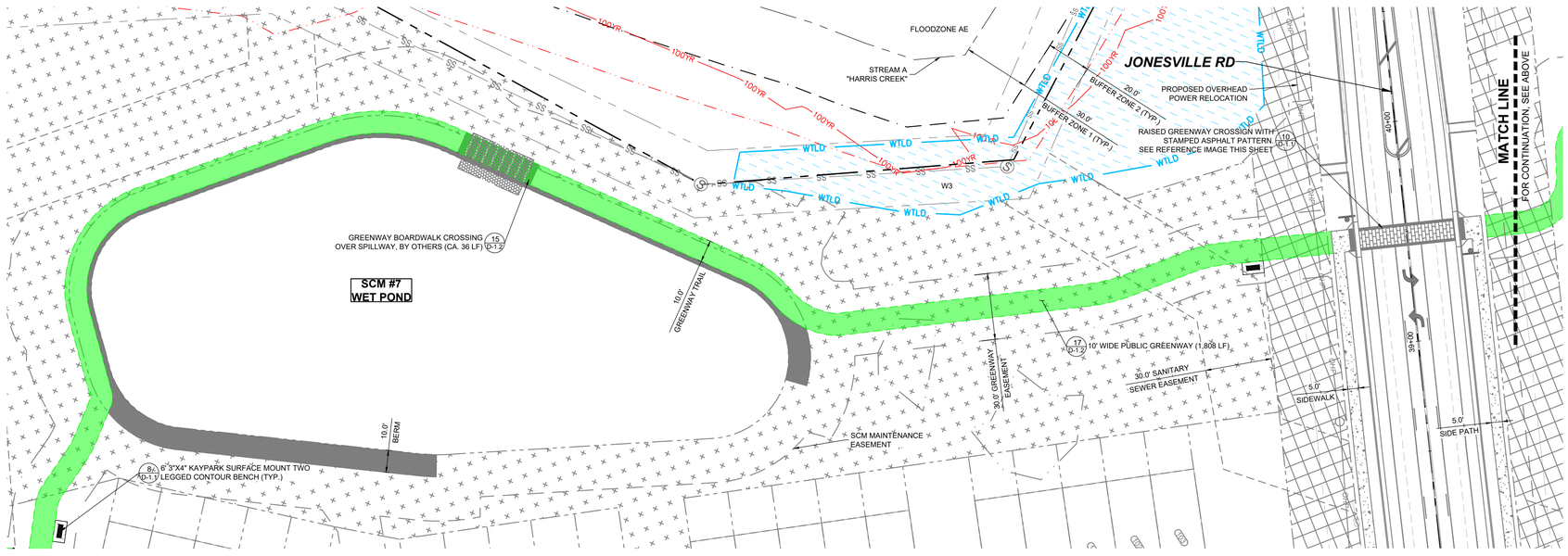
163 OF 230



GREENWAY PLAN



SITE KEY PLAN



GREENWAY PLAN

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP FENCING



RAISED GREENWAY CROSSING



BEACH ALONG GREEN WAY

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
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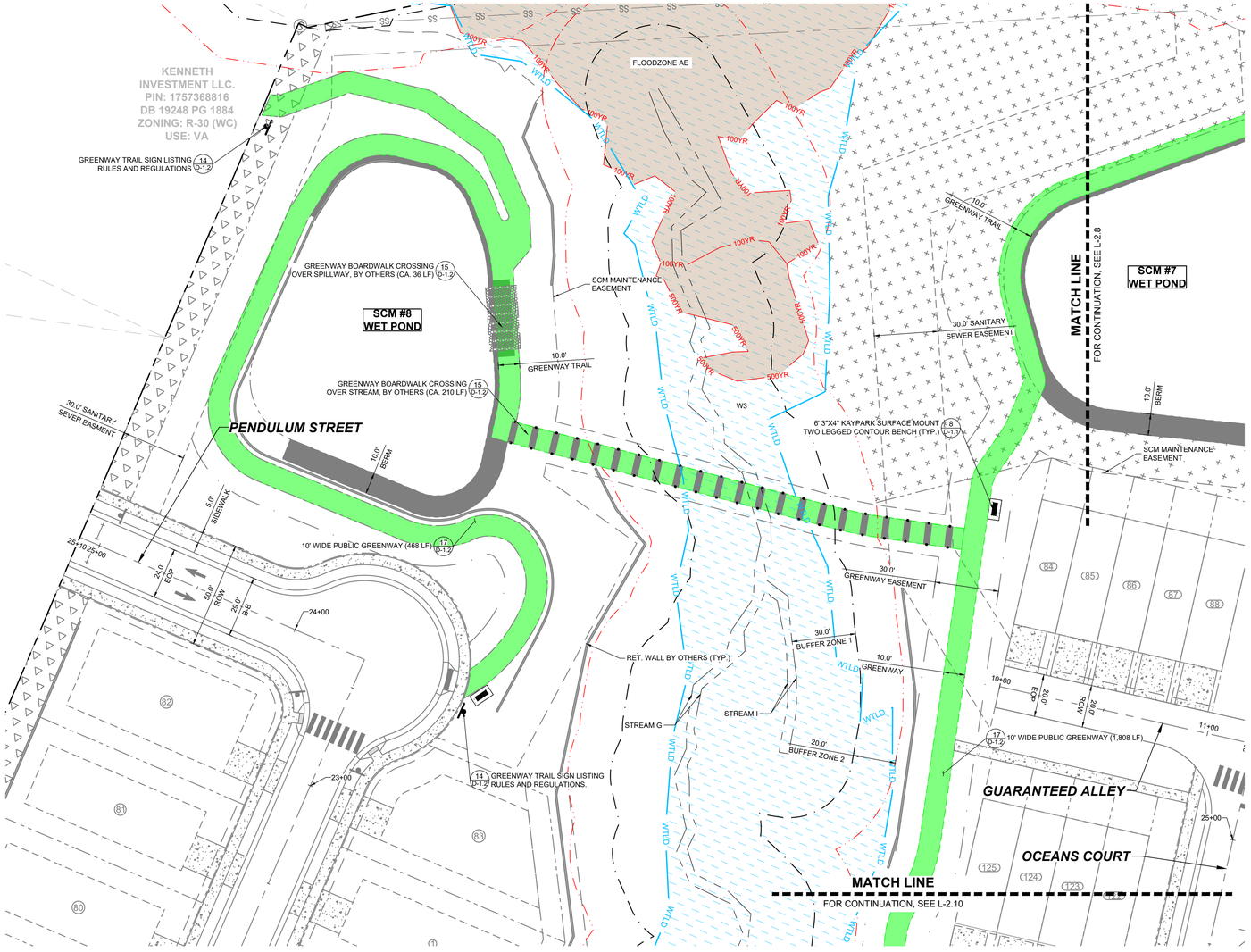
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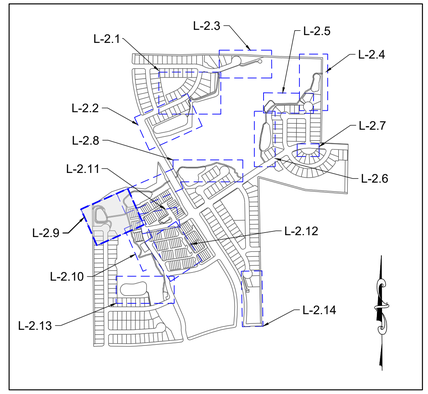
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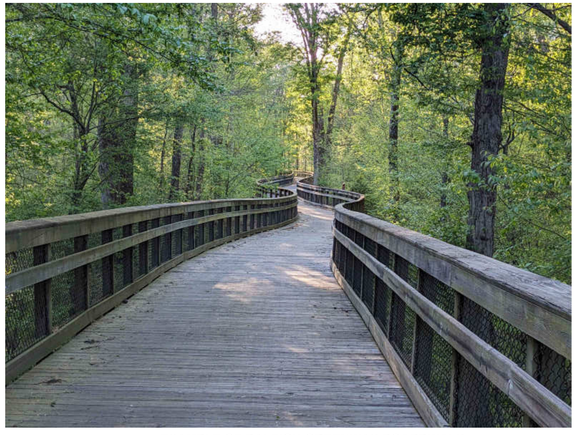
DRAWING SHEET
L-2.8



GREENWAY PLAN



SITE KEY PLAN



EXAMPLE OF RALEIGH GREENWAY BOARDWALK

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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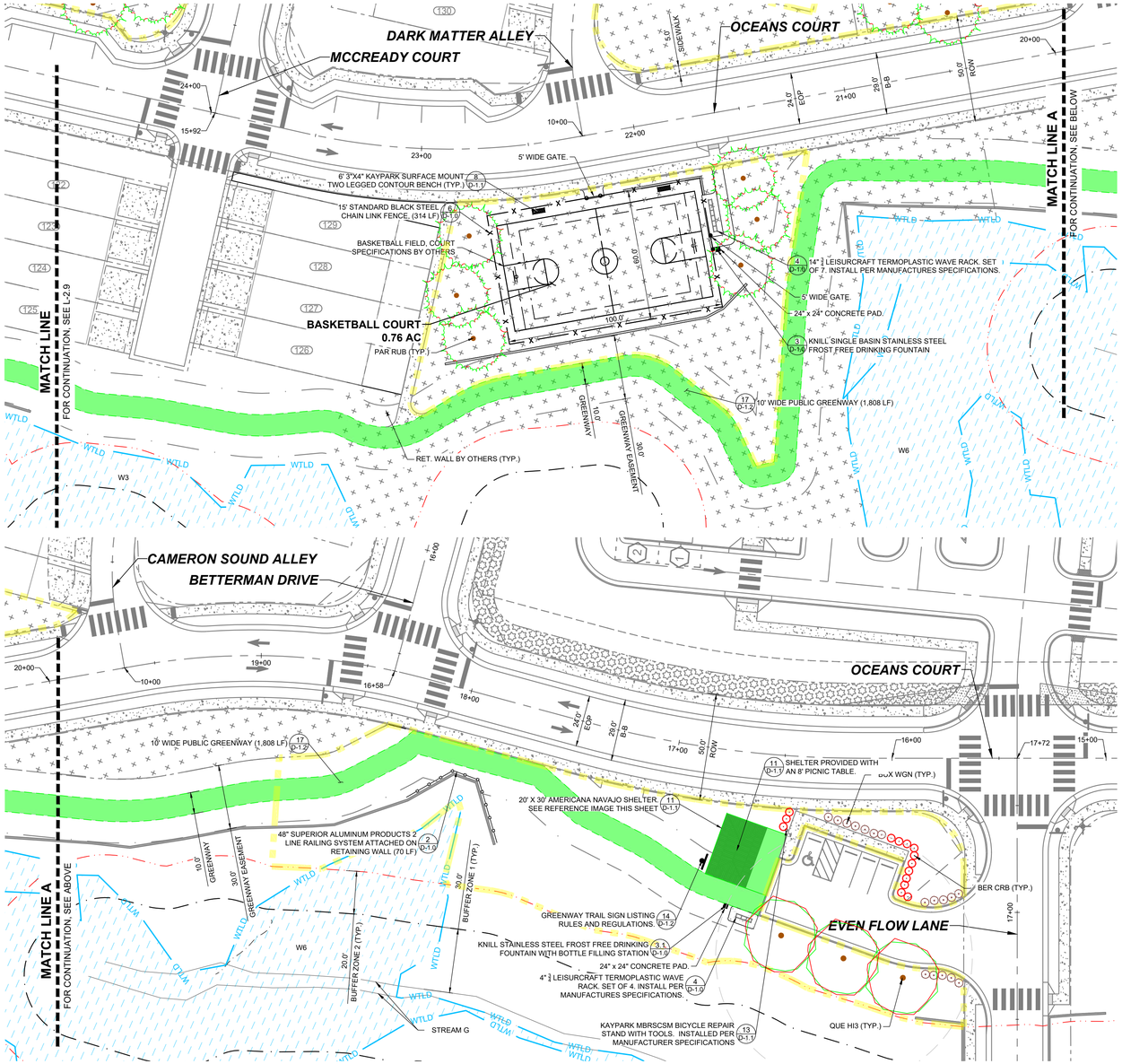
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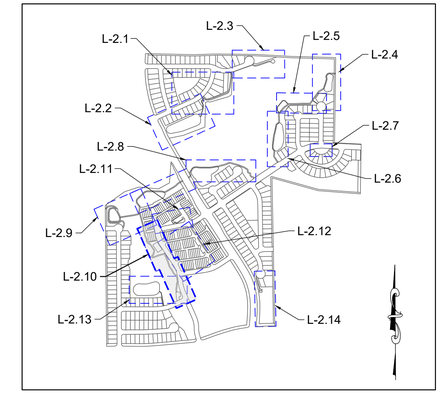
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CONSTRUCTION PLANS
GREENWAY PLAN

DRAWING SHEET
L-2.9



BASKETBALL COURT & GREENWAY PLAN



SITE KEY PLAN



OUTDOOR BASKETBALL COURT EXAMPLE

LEGEND:

- EXISTING PROPERTY LINE
- 500YR — 500 YEAR FLOOD LINE
- 100YR — 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- WTLD — EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- X — X — FENCING



NAVAJO SHELTER

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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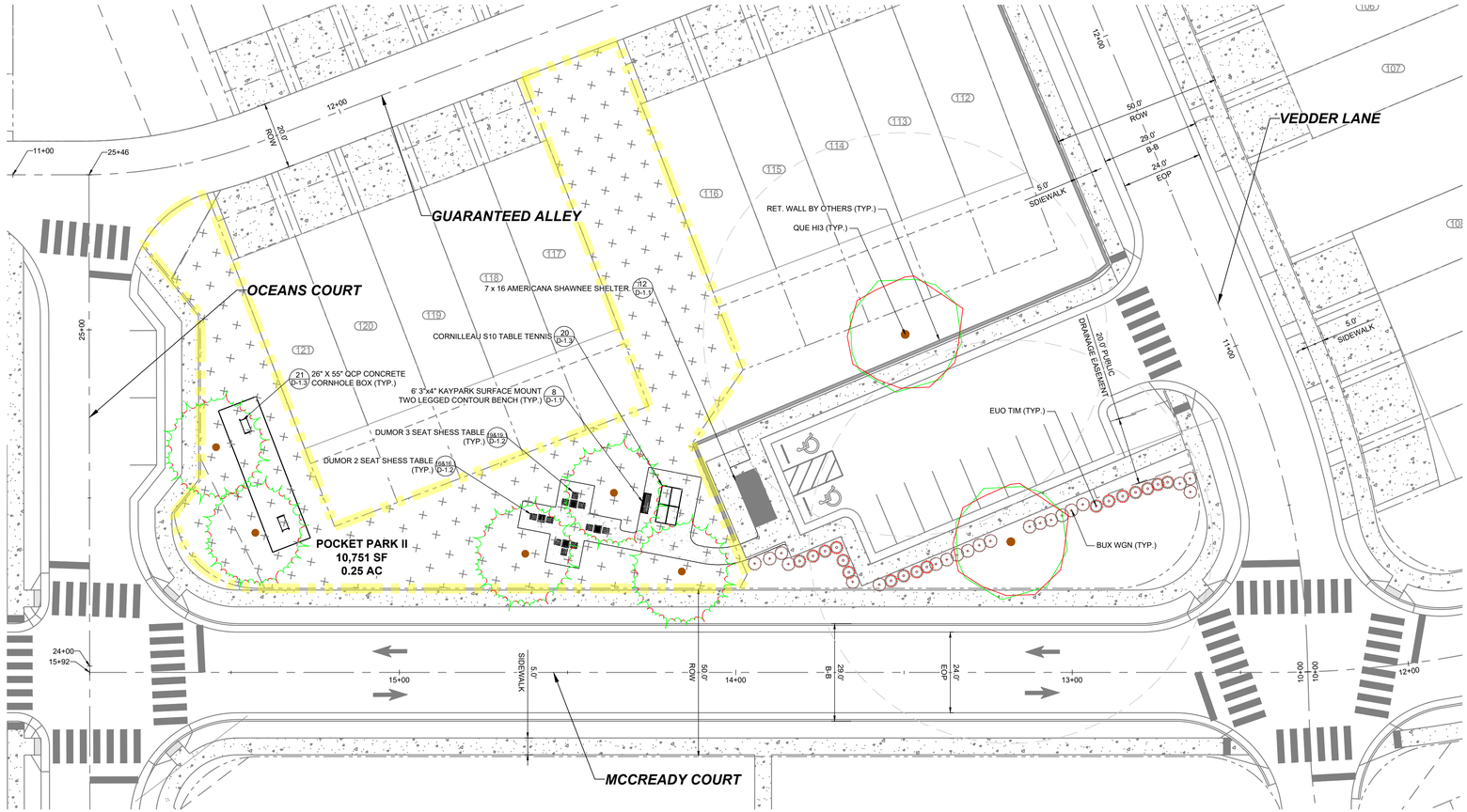
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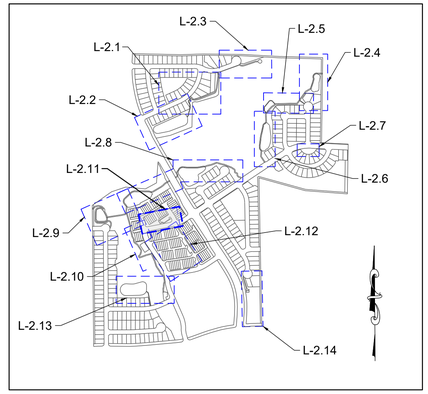
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TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
BASKETBALL COURT & GREENWAY PLAN

DRAWING SHEET
L-2.10



POCKET PARK II PLAN



SITE KEY PLAN

PLANT SCHEDULE NORTHPARK

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PARKING LOT CANOPY								
	QUE HI3	2	QUERCUS LYRATA 'QLFTB'	*HIGHBEAM® OVERCUP OAK*	8` HT.	B&B	3.0"	
		2	**SUBTOTAL:**					
PLAYGROUND TREE								
	PAR RUB	5	PARROTIA PERSICA 'INGE'S RUBY VASE'	*RUBY VASE PERSIAN PARROTIA*	10` HT.	B&B	3.0"	
		5	**SUBTOTAL:**					
SYMBOL	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**HEIGHT**	**CONTAINER**	**CALIPER**	**REMARKS**
PARKING LOT SCREENING								
	BUX WGN	21	BUXUS SINICA INSULARIS 'WINTERGREEN'	*WINTERGREEN KOREAN BOXWOOD*	3 GAL.	POT		
	EUO TIM	17	EUONYMUS ALATUS 'TIMBER CREEK'	*CHICAGO FIRE™ BURNING BUSH*	3 GAL.	POT		
		38	**SUBTOTAL:**					

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING



EXAMPLE OF CHESS BOARD AND PLAYERS

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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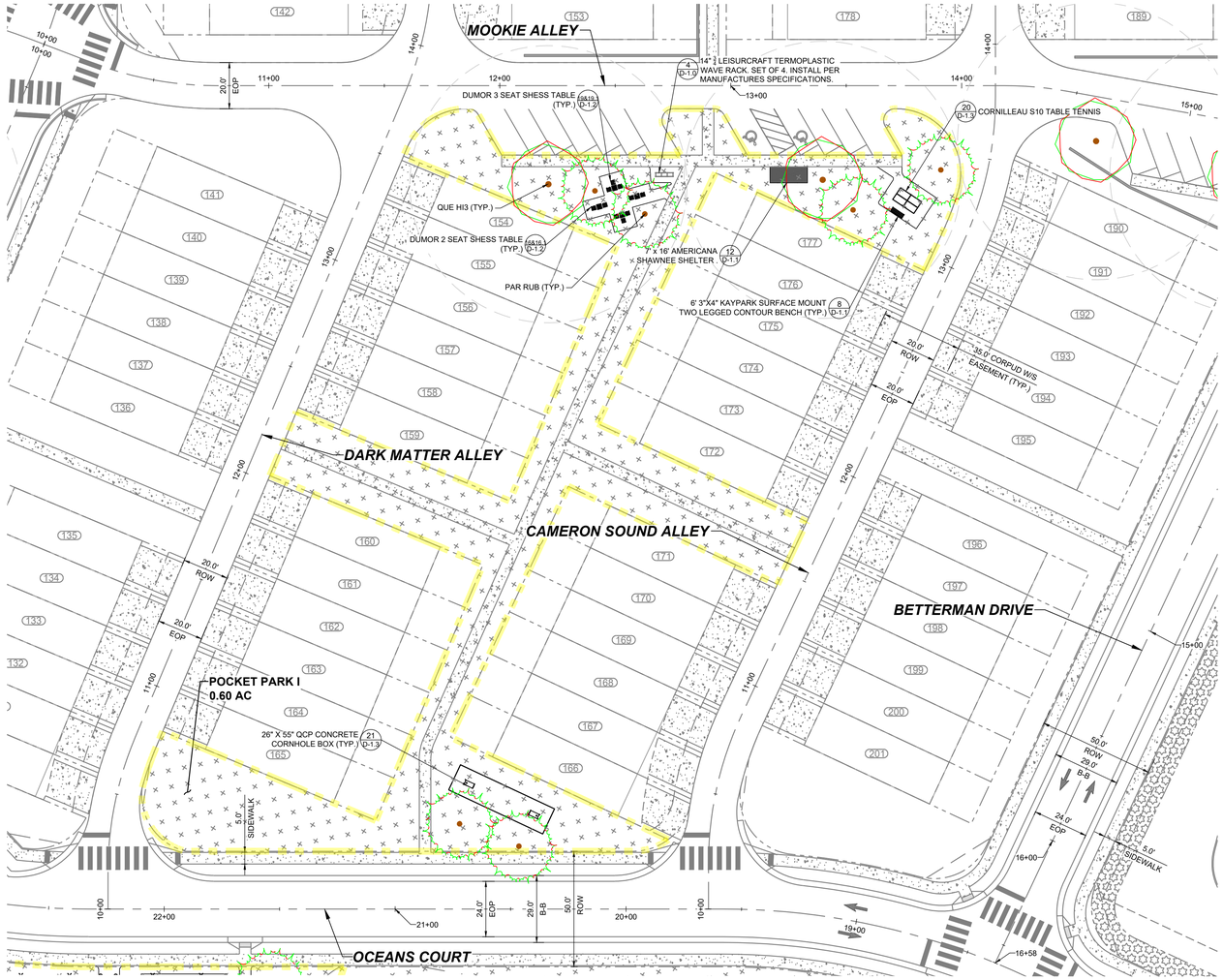
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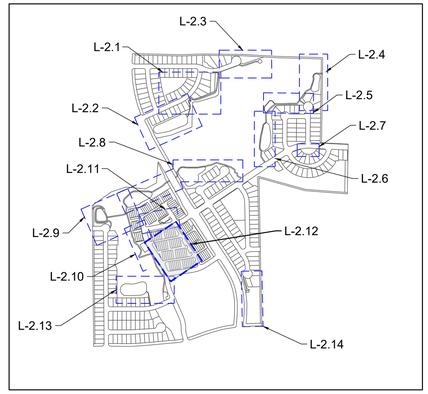
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
POCKET PARK II PLAN

DRAWING SHEET
L-2.11

PROGRESS PLOT DATE: 8/29/2025



POCKET PARK I PLAN



SITE KEY PLAN

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE (500YR)
- 100 YEAR FLOOD LINE (100YR)
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND (WTLD)
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING

PLANT SCHEDULE SOUTHPARK

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PARKING LOT CANOPY								
	QUE HI3	4	QUERCUS LYRATA 'QLFTB'	*HIGHBEAM® OVERCUP OAK*	8` HT.	B&B	3.0"	
		4	SUBTOTAL:					
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER		REMARKS
PLAYGROUND TREE								
	PAR RUB	12	PARROTIA PERSICA 'INGE'S RUBY VASE'	*RUBY VASE PERSIAN PARROTIA*	10 HT.	B&B	3.0"	
		12	SUBTOTAL:					

GRAPHIC SCALE

30 0 15 30 60 120

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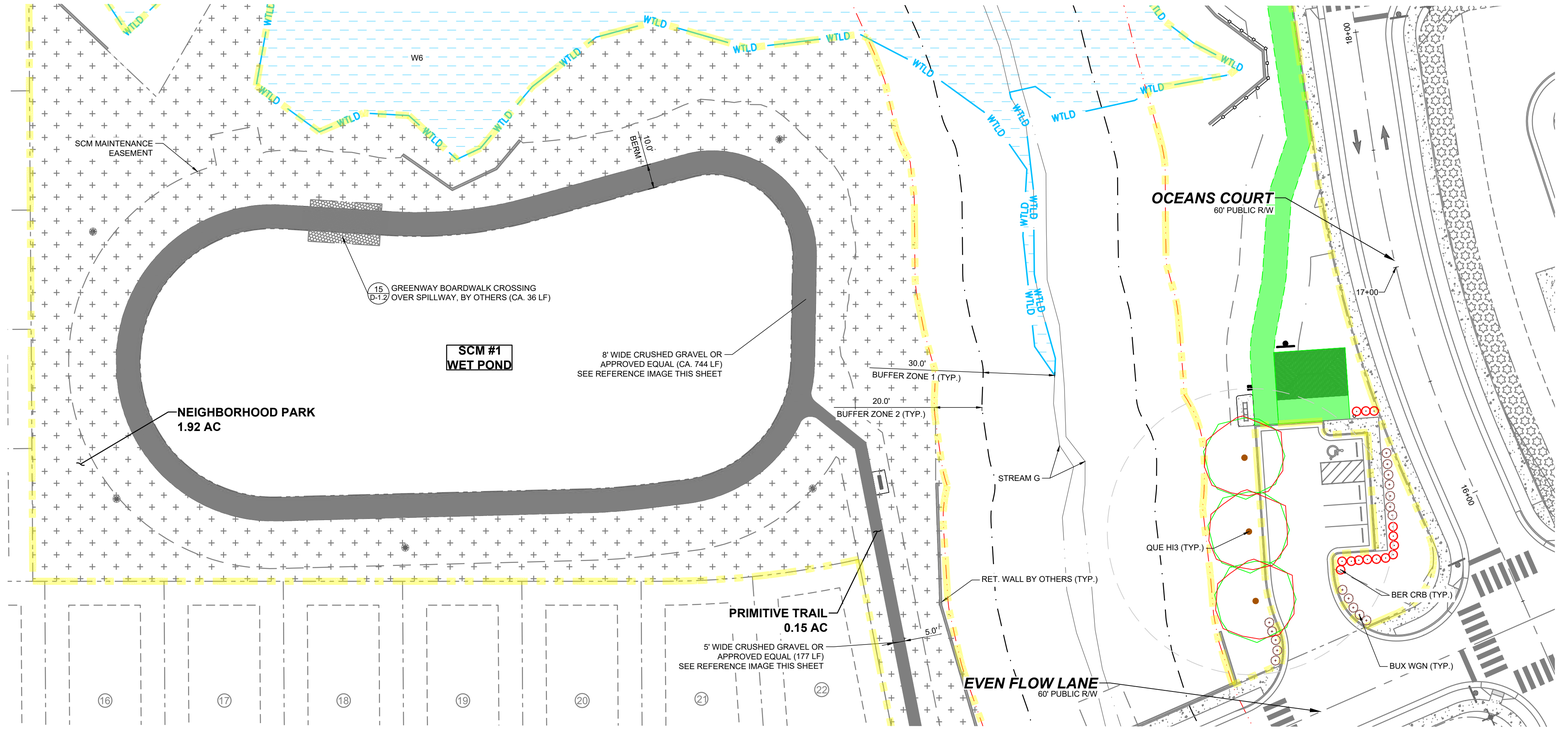
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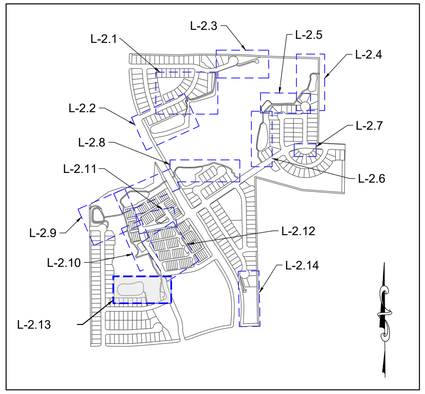
168 OF 230

PLANT SCHEDULE TRAILHEAD

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PARKING LOT CANOPY								
	QUE HI3	3	QUERCUS LYRATA 'QLFTB'	*HIGHBEAM® OVERCUP OAK*	8' HT.	B&B	3.0"	
		3	**SUBTOTAL:**					
SYMBOL	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**		**REMARKS**
PARKING LOT SCREENING								
	BER CRB	14	BERBERIS THUNBERGII 'CRIRUZAM'	*CRIMSON RUBY® JAPANESE BARBERRY*	3 GAL.	POT		
	BUX WGN	17	BUXUS SINICA INSULARIS 'WINTERGREEN'	*WINTERGREEN KOREAN BOXWOOD*	3 GAL.	POT		
		31	**SUBTOTAL:**					



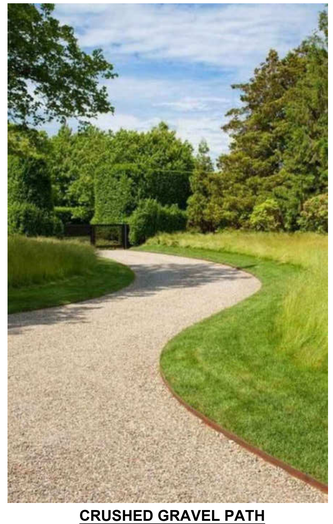
NEIGHBOURHOOD PARK PLAN & GREENWAY TRAILHEAD



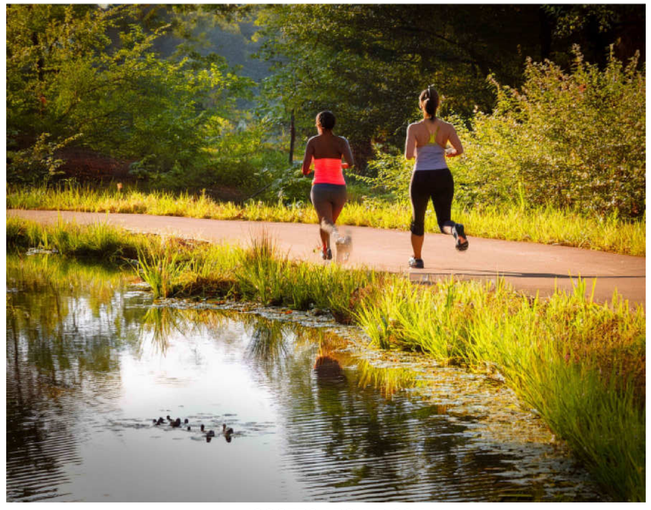
SITE KEY PLAN

LEGEND:

- EXISTING PROPERTY LINE
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- FENCING



CRUSHED GRAVEL PATH



JOGGERS AROUND SCM #1

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
NEIGHBOURHOOD PARK PLAN & GREENWAY TRAILHEAD

DRAWING SHEET
L-2.13

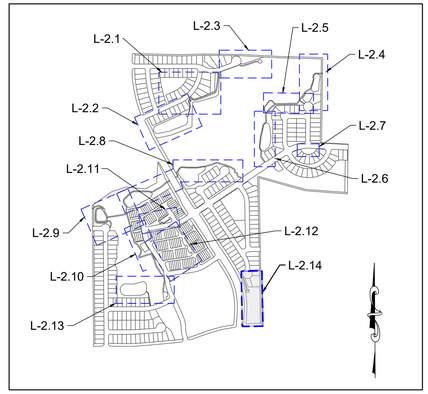


NAVAJO SHELTER

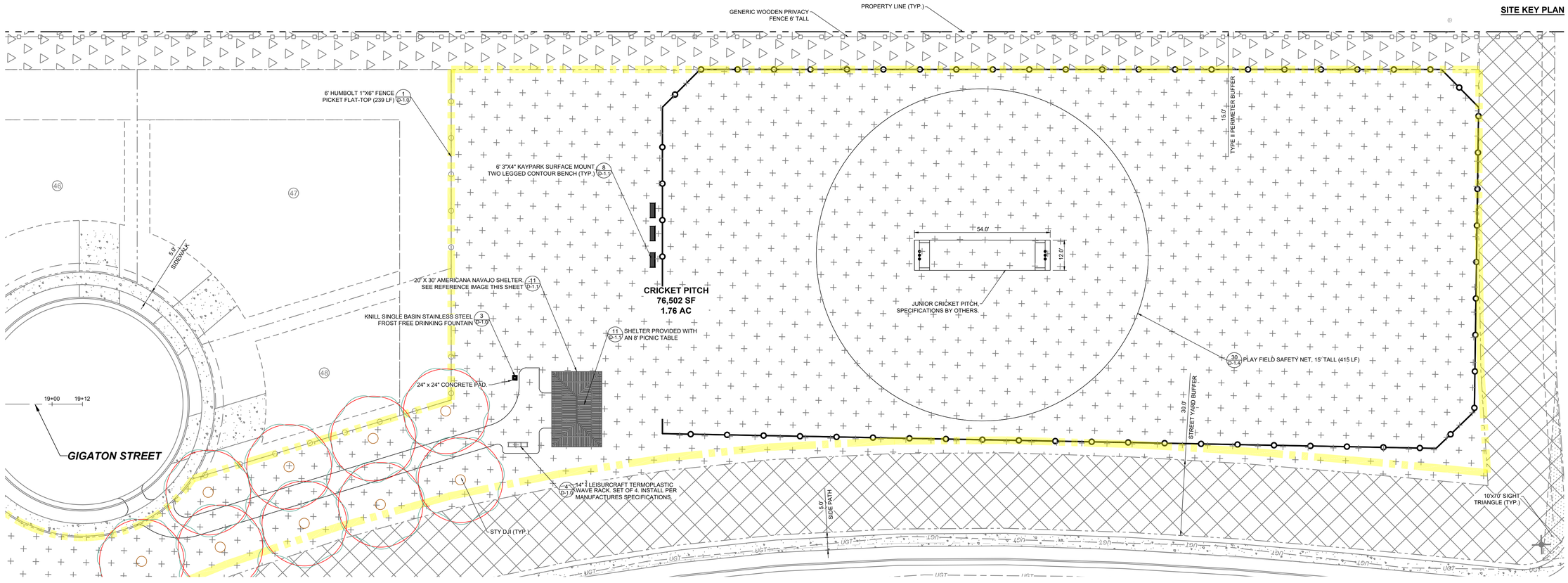


TYPICAL SPORTS FENCING





SITE KEY PLAN



CRICKET PITCH PLAN

LEGEND:

- EXISTING PROPERTY LINE
- 500YR — 500 YEAR FLOOD LINE
- 100YR — 100 YEAR FLOOD LINE
- SIGN
- STOP BAR
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- ROLESVILLE STANDARD VALLEY CURB
- STANDARD CURB & GUTTER
- GREENWAY
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- ACTIVE & PASSIVE OPEN SPACE
- 30' STREET YARD BUFFER
- 15' TYPE II PERIMETER BUFFER
- WTLD — EXISTING WETLAND
- AMENITY AREAS
- GENERIC WOODEN PRIVACY FENCE
- FENCE PICKET FLAT-TOP
- X — X — FENCING

PLANT SCHEDULE CRICKETGROUNDS

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	CALIPER	REMARKS
PLAYGROUND TREE								
⊙	STY DJI	9	STYRAX JAPONICUS 'JFS-D'	*SNOWCONE® JAPANESE SNOWBELL*	8' HT.	B&B	3.0"	
		9	SUBTOTAL:					

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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CONSTRUCTION PLANS
CRICKET PITCH PLAN

DRAWING SHEET
L-2.14

PROGRESS PLOT DATE: 8/29/2025

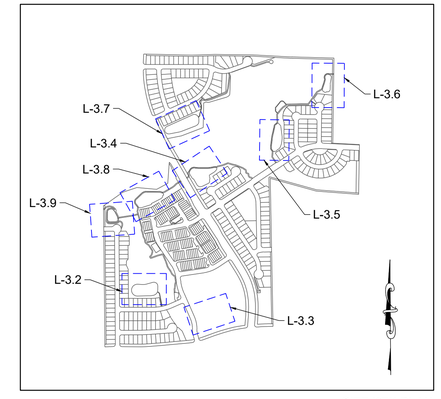


PLAN SCHEDULE

SYMBOL	CODE	QTY	*BOTANICAL NAME*	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
SCM PLANTS								
	ALT OFF	2,873 SF	*ALTHAEA OFFICINALIS*	MARSHMALLOW	#SP1	POT	8" O.C.	
	ASC SOU	2,395 SF	*ASCLEPIAS INCARNATA 'SOULMATE'*	SOULMATE SWAMP MILKWEED	#SP1	POT	6" O.C.	
	CHE GL2	808 SF	*CHELONE GLABRA*	WHITE TURTLEHEAD	#SP1	POT	6" O.C.	PLANTING RATE 50 PER 200 SF
	CHE EHR	480 SF	*CHELONE GLABRA 'BLACK ACE'*	BLACK ACE TURTLEHEAD	#SP2	POT	6" O.C.	PLANTING RATIO 50 PER 200 SF
	EUP DW3	3,102 SF	*EUPATORIADELPHUS DUBIUS*	DWARF JOE PYE WEED	#SP1	POT	6" O.C.	RED FLOWER
	LOB SSI	2,192 SF	*LOBELIA CARDINALIS 'BLACK TRUFFLE'*	BLACK TRUFFLE LOBELIA	#SP1	POT	6" O.C.	
	LOB XQU	2,308 SF	*LOBELIA CARDINALIS 'QUEEN VICTORIA'*	QUEEN VICTORIA CARDINAL FLOWER	#SP1	POT	6" O.C.	BRIGHT RED LARGE FLOWERS PLACE 50 PLANTS PER 200 SF
	LOB EL2	1,437 SF	*LOBELIA ELONGATA*	LONGLEAF LOBELIA	#SP1	POT	6" O.C.	PLANT 50 PER 200 SF LIGHT PURPLE COLOR
	LOB BIG	2,139 SF	*LOBELIA SIPHILITICA 'BIG BLUE'*	BIG BLUE GREAT LOBELIA	#SP1	POT	6" O.C.	PLUGGING RATIO OF 50 PLANTS PER 200 SF
	SAC BA2	200 SF	*SACCHARUM BALDWINII*	NARROW PLUMEGRASS	#SP2	POT	6" O.C.	PLANTING RATIO 50 PER 200 SF
SUBTOTAL:		17,934 SF						
SOD								
	CYN LEI	188,187 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.	SOD ONLY SLOPES OF SCMS
SUBTOTAL:		188,187 SF						

LEGEND:

- STORM DRAIN LINE
- FLARED END SECTION
- CATCH BASIN
- STORM DRAIN MANHOLE
- EX. MAJOR CONTOURS
- EX. MINOR CONTOURS
- PROP. MAJOR CONTOURS
- PROP. MINOR CONTOURS
- EXISTING WETLAND
- 500 YEAR FLOOD LINE
- 100 YEAR FLOOD LINE



SITE KEY PLAN

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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CONSTRUCTION PLANS
OVERALL SCM PLANTING PLAN

DRAWING SHEET
L-3.0

171 OF 230

MAINTENANCE

IMPORTANT OPERATION AND MAINTENANCE PROCEDURES:

1. IMMEDIATELY AFTER THE WET POND IS ESTABLISHED, THE PLANTS ON THE VEGETATED SHELF AND PERIMETER OF THE BASIN WILL BE WATERED TWICE WEEKLY IF NEEDED, UNTIL THE PLANTS BECOME ESTABLISHED (COMMONLY SIX WEEKS).
2. NO PORTION OF THE WET POND WILL BE FERTILIZED AFTER THE FIRST INITIAL FERTILIZATION THAT IS REQUIRED TO ESTABLISH THE PLANTS ON THE VEGETATED SHELF.
3. STABLE GROUNDCOVER WILL BE MAINTAINED IN THE DRAINAGE AREA TO REDUCE THE SEDIMENT LOAD TO THE WET POND.
4. IF THE POND MUST BE DRAINED FOR AN EMERGENCY OR TO PERFORM MAINTENANCE, THE FLUSHING OF SEDIMENT THROUGH THE EMERGENCY DRAIN WILL BE MINIMIZED AS MUCH AS POSSIBLE.
5. ONCE A YEAR, A DAM SAFETY EXPERT SHOULD INSPECT THE EMBANKMENT.
6. THE MEASURING DEVICE USED TO DETERMINE THE SEDIMENT ELEVATION SHALL BE SUCH THAT IT WILL GIVE AN ACCURATE DEPTH READING AND NOT READILY PENETRATE INTO ACCUMULATED SEDIMENTS.

AFTER THE WET POND IS ESTABLISHED, IT SHOULD BE INSPECTED QUARTERLY AND WITHIN 24 HOURS AFTER EVERY STORM EVENT GREATER THAN 1.0 INCHES (OR 1.5 INCHES IF IN A COASTAL COUNTY).. RECORDS OF OPERATION AND MAINTENANCE WILL BE KEPT IN A KNOWN SET LOCATION AND SHALL BE AVAILABLE UPON REQUEST.
INSPECTION ACTIVITIES SHALL BE PERFORMED AS FOLLOWS. ANY PROBLEMS THAT ARE FOUND SHALL BE REPAIRED IMMEDIATELY.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3-4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. TOPSOIL SHOULD BE INCORPORATED INTO THE FINAL GRADING OF THE BASIN SIDE SLOPES AND AQUATIC SHELF. CONTRACTOR SHOULD SCARIFY THE TOP 3-4 INCHES OF THE COMPACTED FILL TO PROMOTE BONDING WITH TOPSOIL.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. PER ONE TIME ONLY, APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE.
   AFTER PERMANENT COVER IS ESTABLISHED.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT.

TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
JAN 1 - MAY 1	RYE (GRAIN)	120 LBS/AC
	KOBE LESPEDEZA	50 LBS/AC
MAY 1 - AUG 15	GERMAN MILLET	40 LBS/AC
AUG 15 - DEC 30	RYE (GRAIN)	120 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2.000 LB/AC GROUND AGRICULTURE UMESTONE AND 750 LB/AC 10-10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILLIZER TO 1000 LB/AC)

MULCH
APPLY 4000 LB/AC 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
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NOTE: USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

SEEDING DATE	SEEDING MIXTURE OPTIONS (CHOOSE ONE)	APPLICATION RATE
MAY 1 - AUG 31	CENTIPEDE RAW	30 LBS/AC
APRIL 1 - SEPT 1	SUMMER MIX (80% HULLED BERMUDA/20% MILLET)	200 LBS/AC
OCT 1 - MARCH 1	FALL MIX (80% TALL FESCUE/20% ANNUAL RYEGRASS)	200 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10-10 FERTILIZER.

MULCH
APPLY 4000 LB/AC 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
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF2-4 INCHES.

NOTE: PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

PLANTING INSTRUCTIONS

PLANTING TECHNIQUES
A. ENSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
B. CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
C. PLACE PLANTS IN PIT ENSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
D. HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
E. NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS
F. ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY.
G. THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
H. SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
I. PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THEE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
J. BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAMAGED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

CONTAINER STOCK / BARE ROOT
A. STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
B. CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
C. BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING. OTHERWISE SEE D) BELOW.
D. IF BARE ROOTS SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (ETC. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

PLANT LOCATIONS
A. NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
B. NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

WATER
WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE

PLANTING SCHEDULE

1. ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER MANAGEMENT FACILITY PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
2. ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER MANAGEMENT FACILITY PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER MANAGEMENT FACILITY PLANTING PLAN.
3. OPTIMAL PLANTING PERIODS RANGE APPROXIMATELY FROM APRIL15TH THRU JUNE 30TH AND SEPTEMBER 1ST THRU OCTOBER 31ST. FOR FINAL DETERMINATION OF THE SITE'S PLANTING PERIOD, THE CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION.
4. IT IS RECOMMENDED THAT THE CONTRACTOR TAKE MEASURES TO PREVENT WILDLIFE FROM DAMAGING OR CONSUMING WETLAND PLANTINGS.

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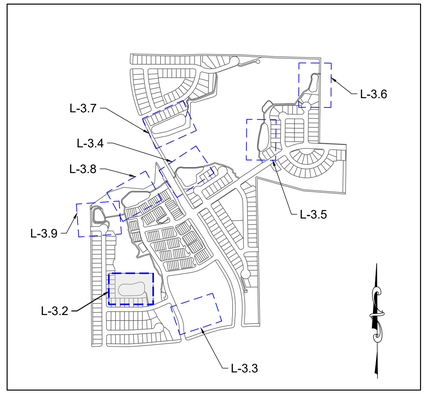
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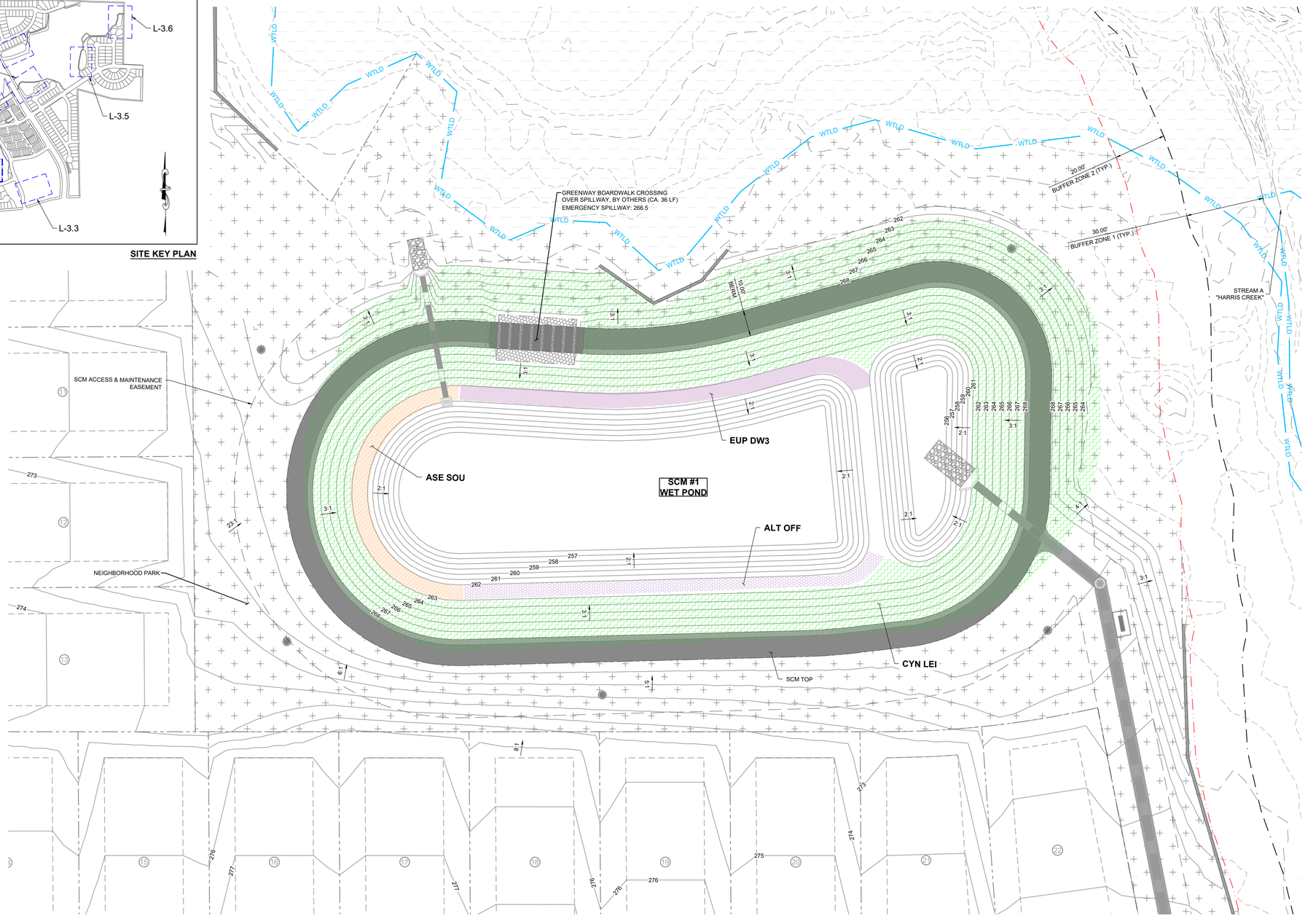
SCM PLANTING NOTES

DRAWING SHEET

L-3.1



SITE KEY PLAN



PLANT SCHEDULE SCM 1

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
SCM PLANTS								
	ALT OFF	796 SF	*ALTHAEA OFFICINALIS*	MARSHMALLOW	#SP1	POT	8" O.C.	
	ASC SOU	1,001 SF	*ASCLEPIAS INCARNATA 'SOULMATE'*	SOULMATE SWAMP MILKWEED	#SP1	POT	6" O.C.	
	EUP DW3	984 SF	*EUPATORIADELPHUS DUBIUS*	DWARF JOE PYE WEED	#SP1	POT	6" O.C.	RED FLOWER
		2,781 SF	SUBTOTAL:					
SOD								
	CYN LEI	21,870 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.	SOD ONLY SLOPES OF SCMS
		21,870 SF	SUBTOTAL:					

LEGEND:

SEE SHEET L-3.0 FOR LEGEND.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

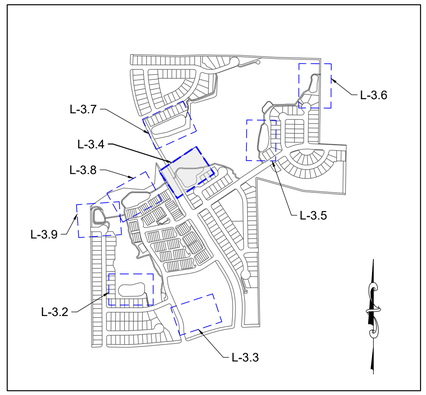
STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PLANTING SCM #1

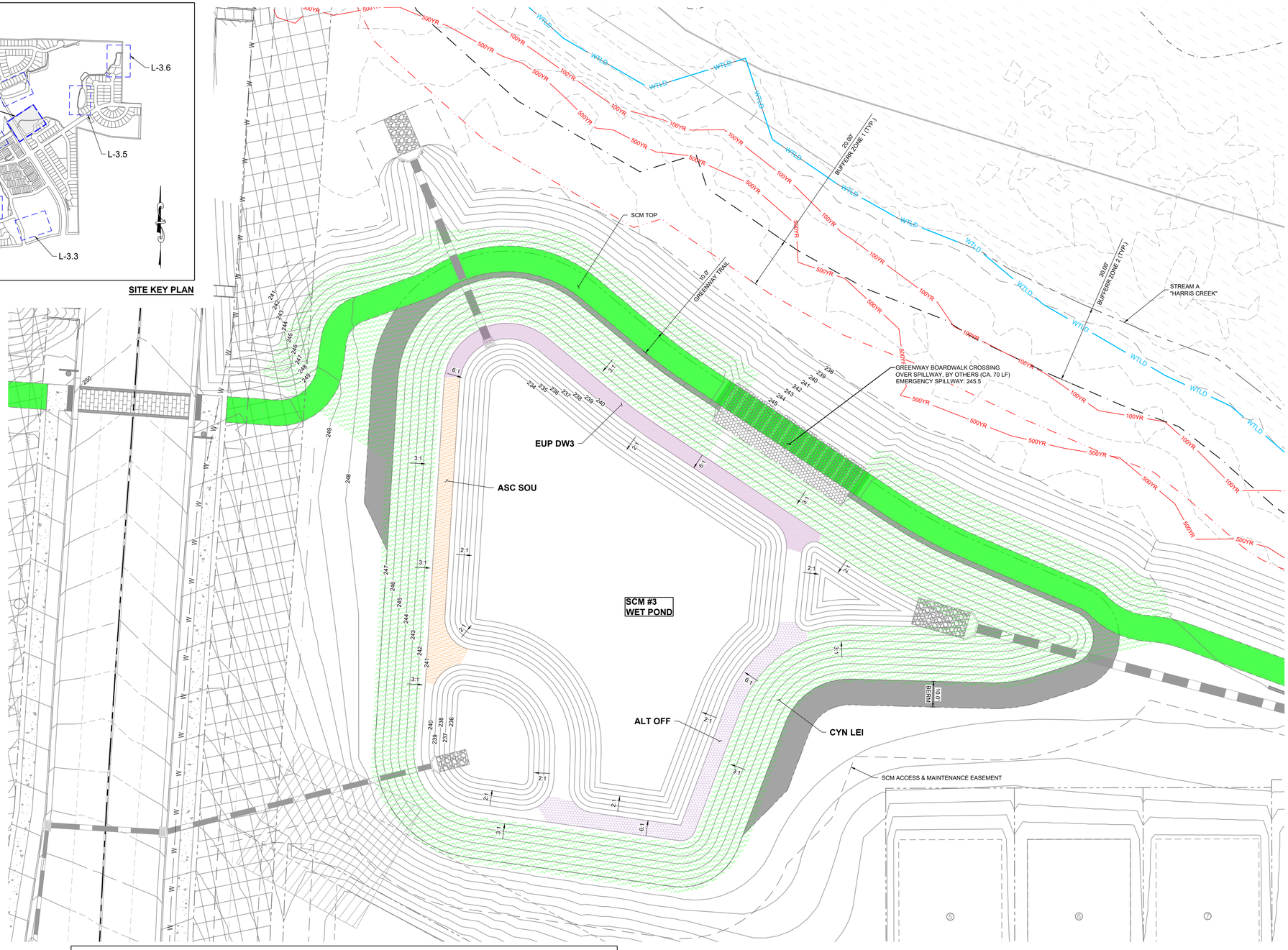
DRAWING SHEET
L-3.2

173 OF 230

PROGRESS PLOT DATE: 8/29/2025



SITE KEY PLAN



PLANT SCHEDULE SCM 3

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
SCM PLANTS							
	ALT OFF	1,002 SF	*ALTHAEA OFFICINALIS*	MARSHMALLOW	#SP1	POT	8" O.C.
	ASC SOU	803 SF	*ASCLEPIAS INCARNATA 'SOULMATE'*	SOULMATE SWAMP MILKWEED	#SP1	POT	6" O.C.
	EUP DW3	1,097 SF	*EUPATORIADELPHUS DUBIUS*	DWARF JOE PYE WEED	#SP1	POT	6" O.C.
		2,902 SF	SUBTOTAL:				
SOD							
	CYN LEI	20,442 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.
		20,442 SF	SUBTOTAL:				

LEGEND:

SEE SHEET L-3.0 FOR LEGEND.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

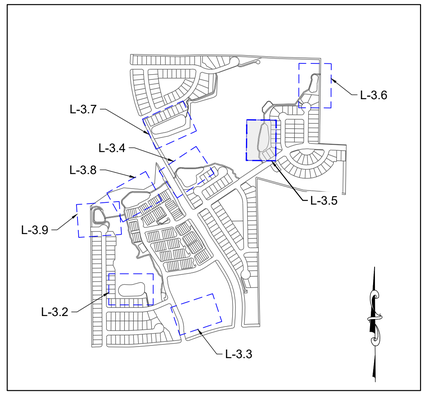
SEAL:

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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

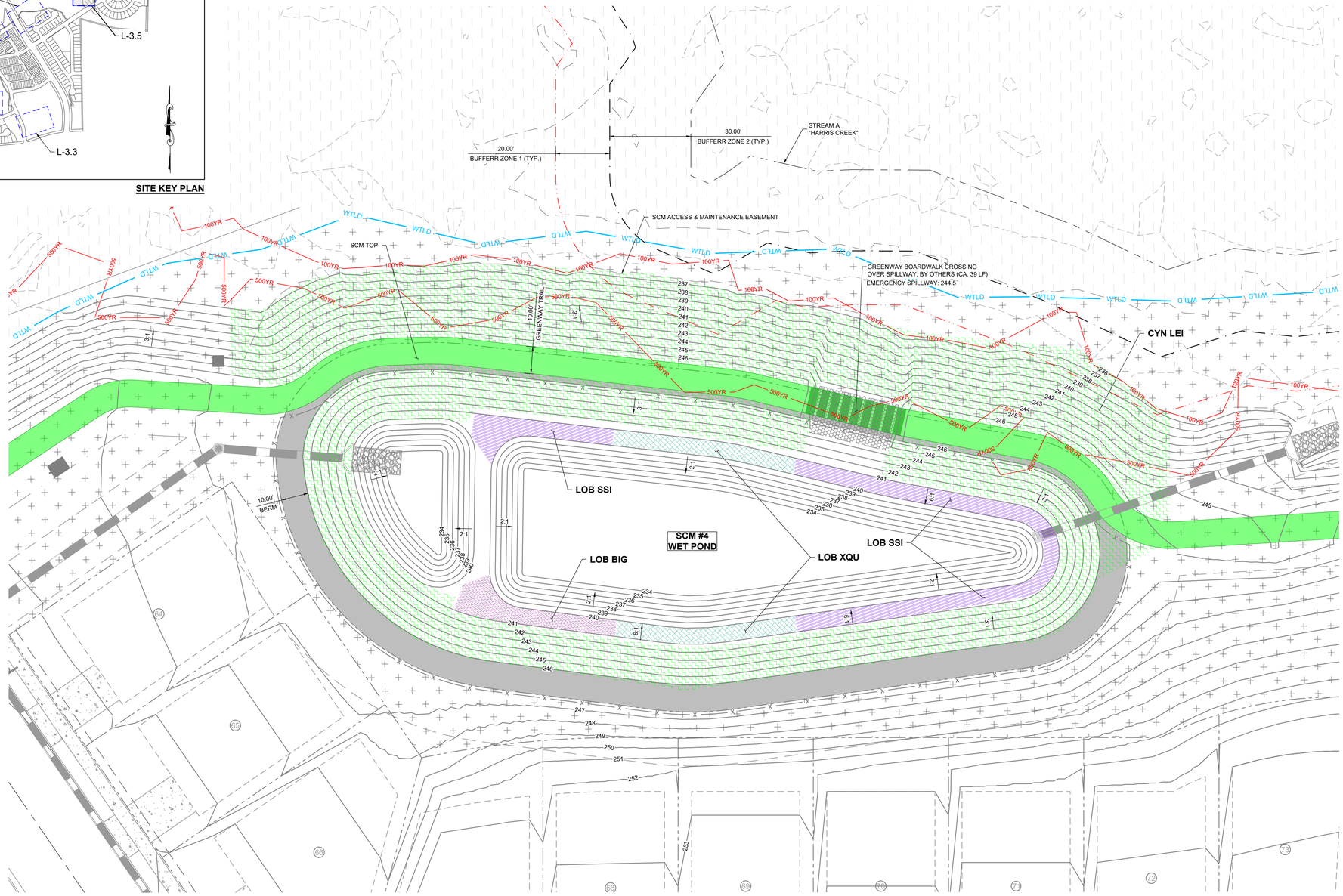
STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PLANTING SCM #3

DRAWING SHEET
L-3.4



SITE KEY PLAN



PLANT SCHEDULE SCM 4							
SYMBOL	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**	**SPACING**
SCM PLANTS							
	LOB SSI	1,604 SF	*LOBELIA CARDINALIS 'BLACK TRUFFLE'*	BLACK TRUFFLE LOBELIA	#SP1	POT	6" O.C.
	LOB XQU	803 SF	*LOBELIA CARDINALIS 'QUEEN VICTORIA'*	QUEEN VICTORIA CARDINAL FLOWER	#SP1	POT	6" O.C.
	LOB BIG	460 SF	*LOBELIA SIFPHILITICA 'BIG BLUE'*	BIG BLUE GREAT LOBELIA	#SP1	POT	6" O.C.
		2,867 SF	SUBTOTAL:				
SOD							
	CYN LEI	20,897 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.
		20,897 SF	SUBTOTAL:				

LEGEND:

SEE SHEET L-3.0 FOR LEGEND.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

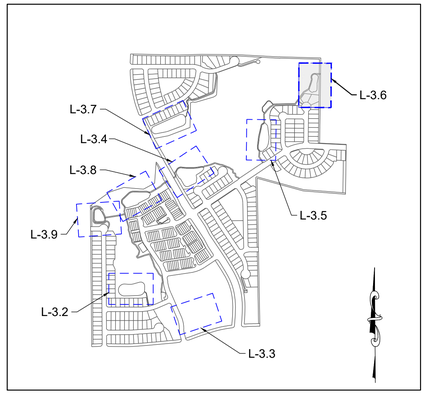
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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT PSP-23-03	
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

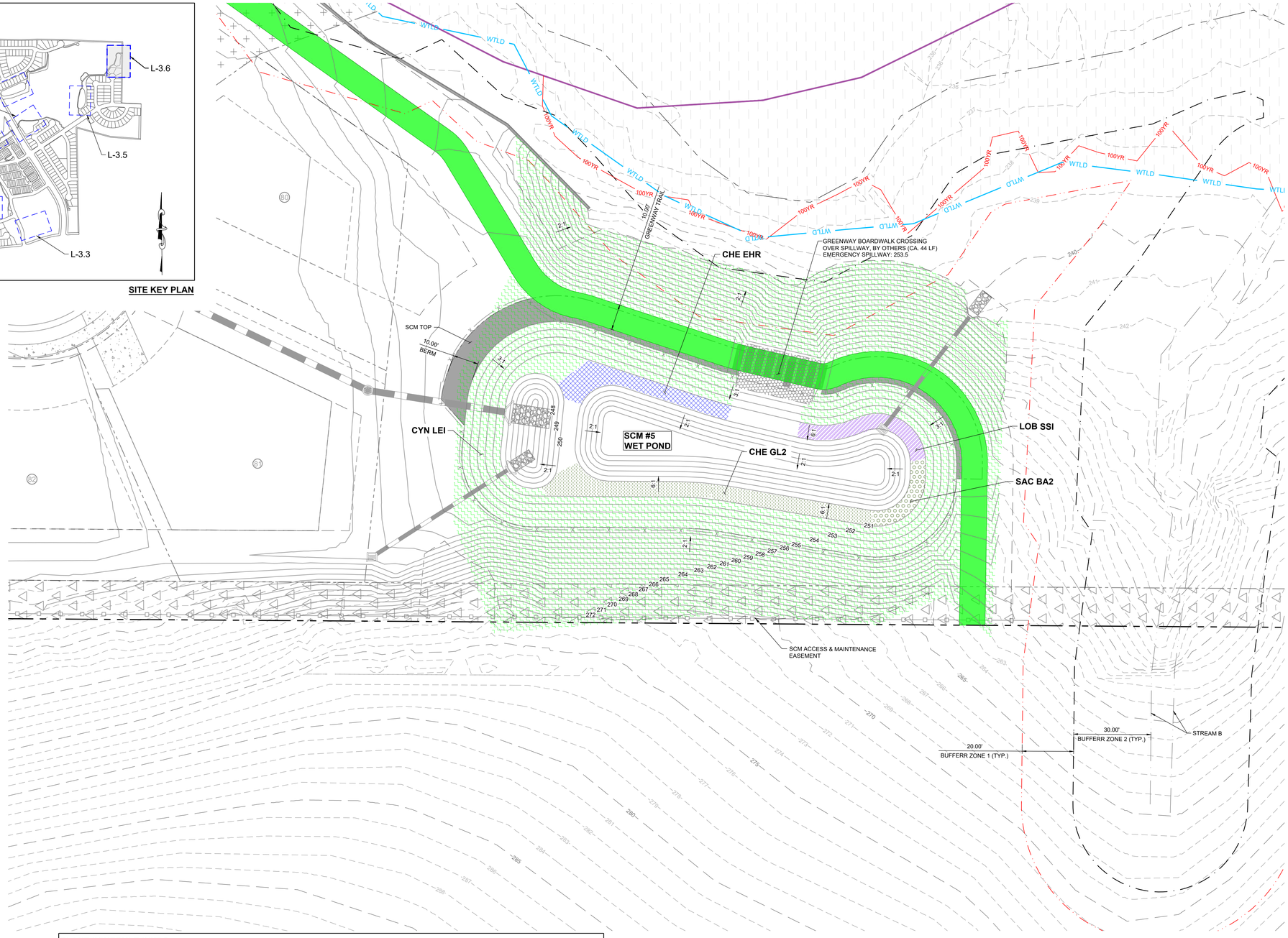
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PLANTING SCM #4

DRAWING SHEET
L-3.5

176 OF 230



SITE KEY PLAN



PLANT SCHEDULE SCM 5

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
SCM PLANTS							
	CHE GL2	808 SF	*CHELONE GLABRA*	WHITE TURTLEHEAD	#SP1	POT	6" O.C.
	CHE EHR	480 SF	*CHELONE GLABRA 'BLACK ACE'*	BLACK ACE TURTLEHEAD	#SP2	POT	6" O.C.
	LOB SSI	321 SF	*LOBELIA CARDINALIS 'BLACK TRUFFLE'*	BLACK TRUFFLE LOBELIA	#SP1	POT	6" O.C.
	SAC BA2	200 SF	*SACCHARUM BALDWINII*	NARROW PLUMEGRASS	#SP2	POT	6" O.C.
		1,809 SF	SUBTOTAL:				
SOD							
	CYN LEI	19,463 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.
		19,463 SF	SUBTOTAL:				

LEGEND:

SEE SHEET L-3.0 FOR LEGEND.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

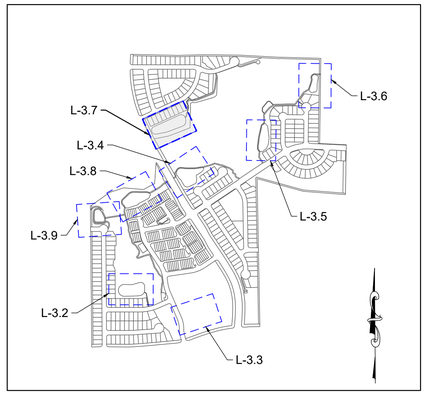
SEAL:

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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

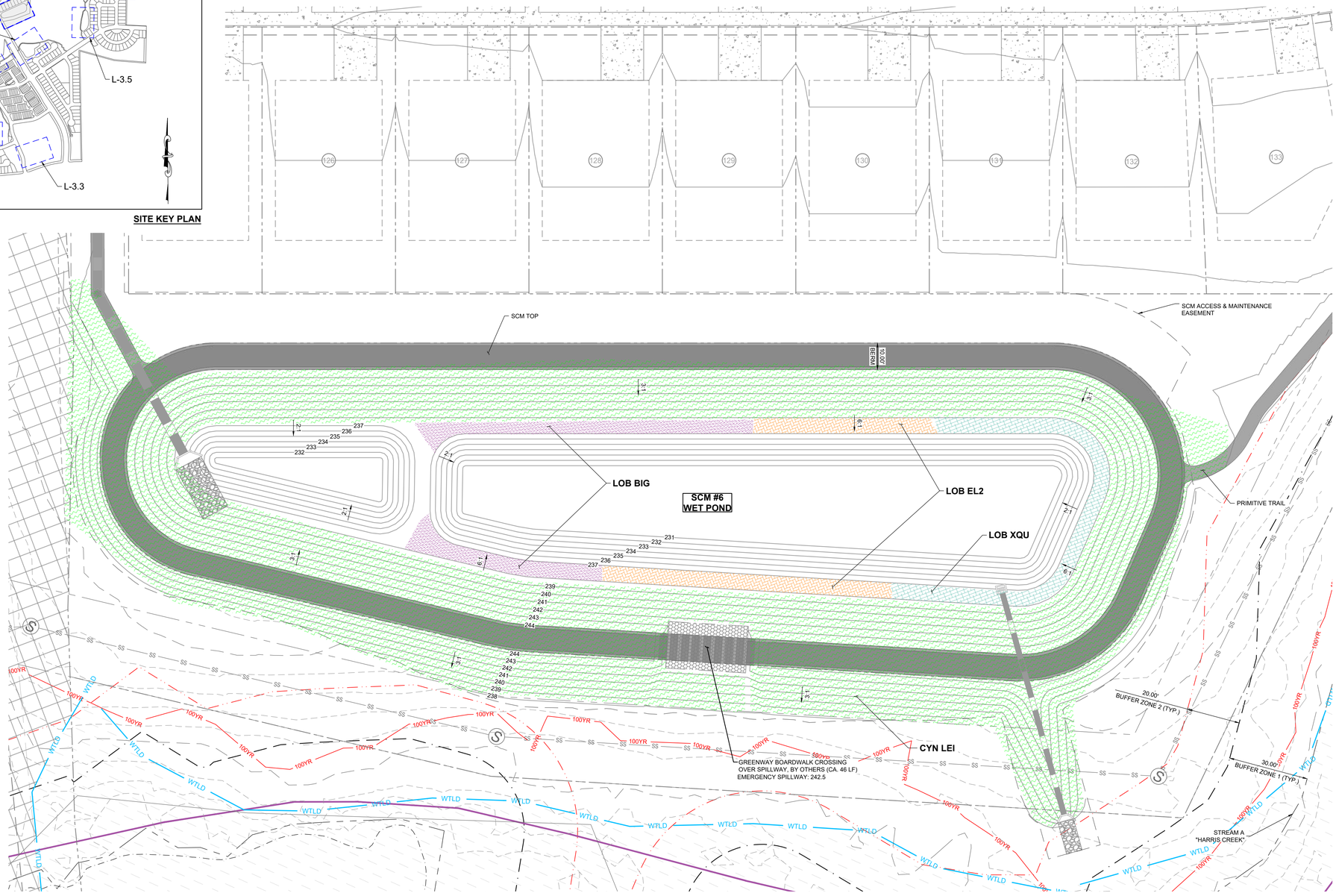
STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PLANTING SCM #5

DRAWING SHEET
L-3.6



SITE KEY PLAN



PLANT SCHEDULE SCM 6

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
SCM PLANTS							
	LOB XQU	1,042 SF	*LOBELIA CARDINALIS 'QUEEN VICTORIA'*	QUEEN VICTORIA CARDINAL FLOWER	#SP1	POT	6" O.C.
	LOB EL2	1,035 SF	*LOBELIA ELONGATA*	LONGLEAF LOBELIA	#SP1	POT	6" O.C.
	LOB BIG	1,128 SF	*LOBELIA SIFPHILITICA 'BIG BLUE'*	BIG BLUE GREAT LOBELIA	#SP1	POT	6" O.C.
		3,205 SF	SUBTOTAL:				
SOD							
	CYN LEI	29,293 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.
		29,293 SF	SUBTOTAL:				

LEGEND:

SEE SHEET L-3.0 FOR LEGEND.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

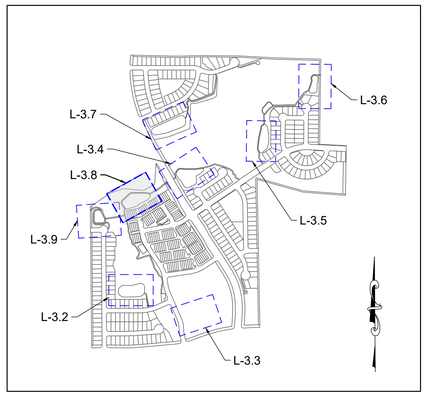
SEAL:

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

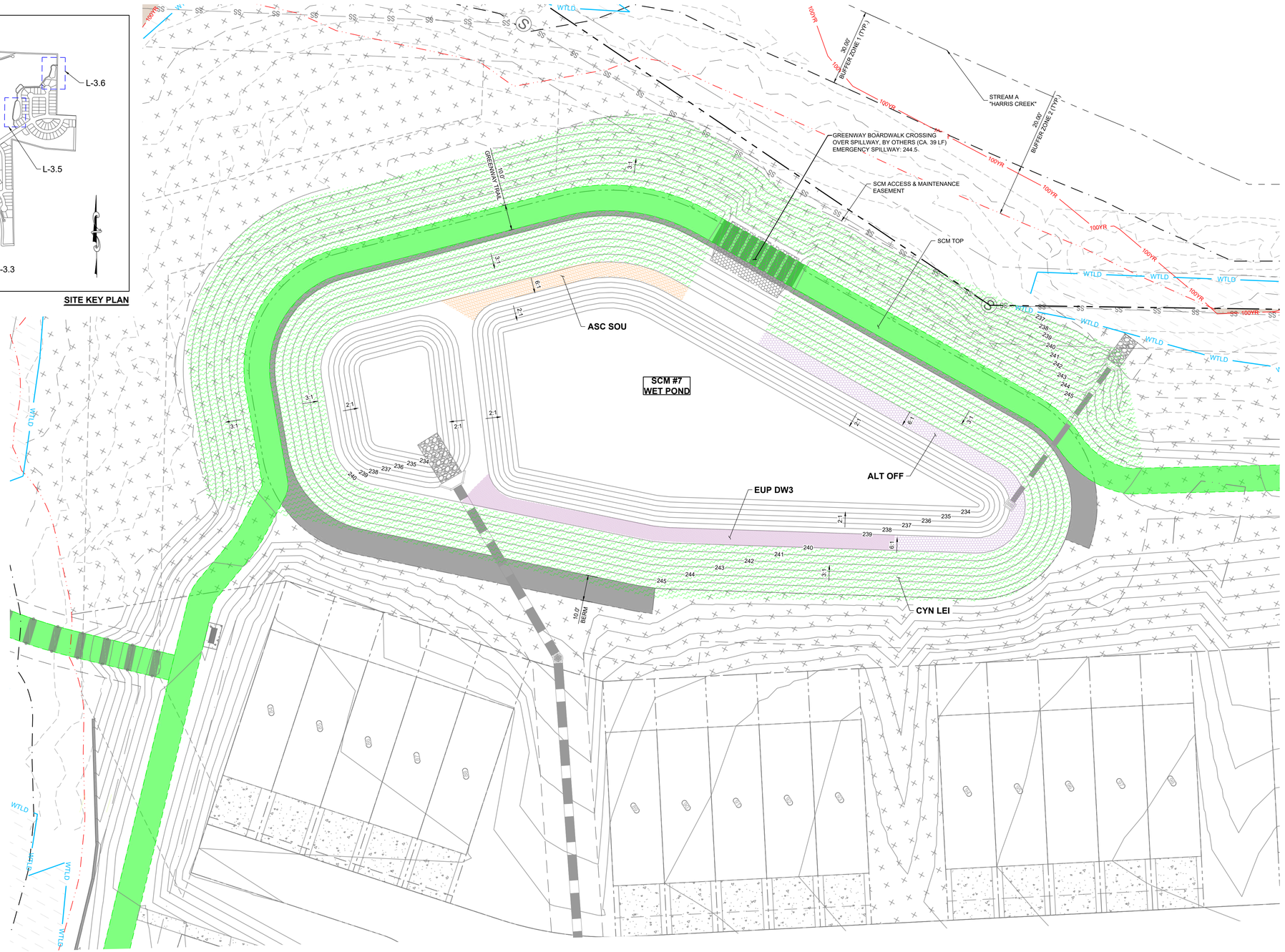
STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PLANTING SCM #6

DRAWING SHEET
L-3.7



SITE KEY PLAN



PLANT SCHEDULE SCM 7

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
SCM PLANTS							
	ALT OFF	1,075 SF	*ALTHAEA OFFICINALIS*	MARSHMALLOW	#SP1	POT	8" O.C.
	ASC SOU	591 SF	*ASCLEPIAS INCARNATA 'SOULMATE'*	SOULMATE SWAMP MILKWEED	#SP1	POT	6" O.C.
	EUP DW3	1,021 SF	*EUPATORIADELPHUS DUBIUS*	DWARF JOE PYE WEED	#SP1	POT	6" O.C.
		2,687 SF	SUBTOTAL:				
SOD							
	CYN LEI	24,460 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.
		24,460 SF	SUBTOTAL:				

LEGEND:

SEE SHEET L-3.0 FOR LEGEND.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

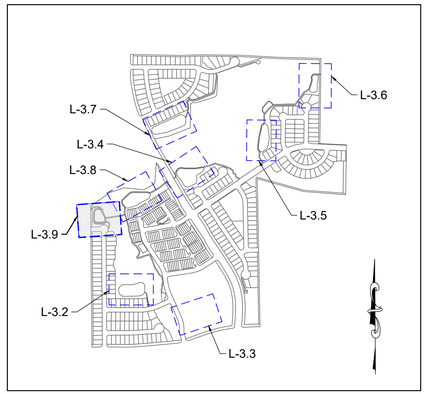
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STRONG ROCK PROJECT	PSP-23-93
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
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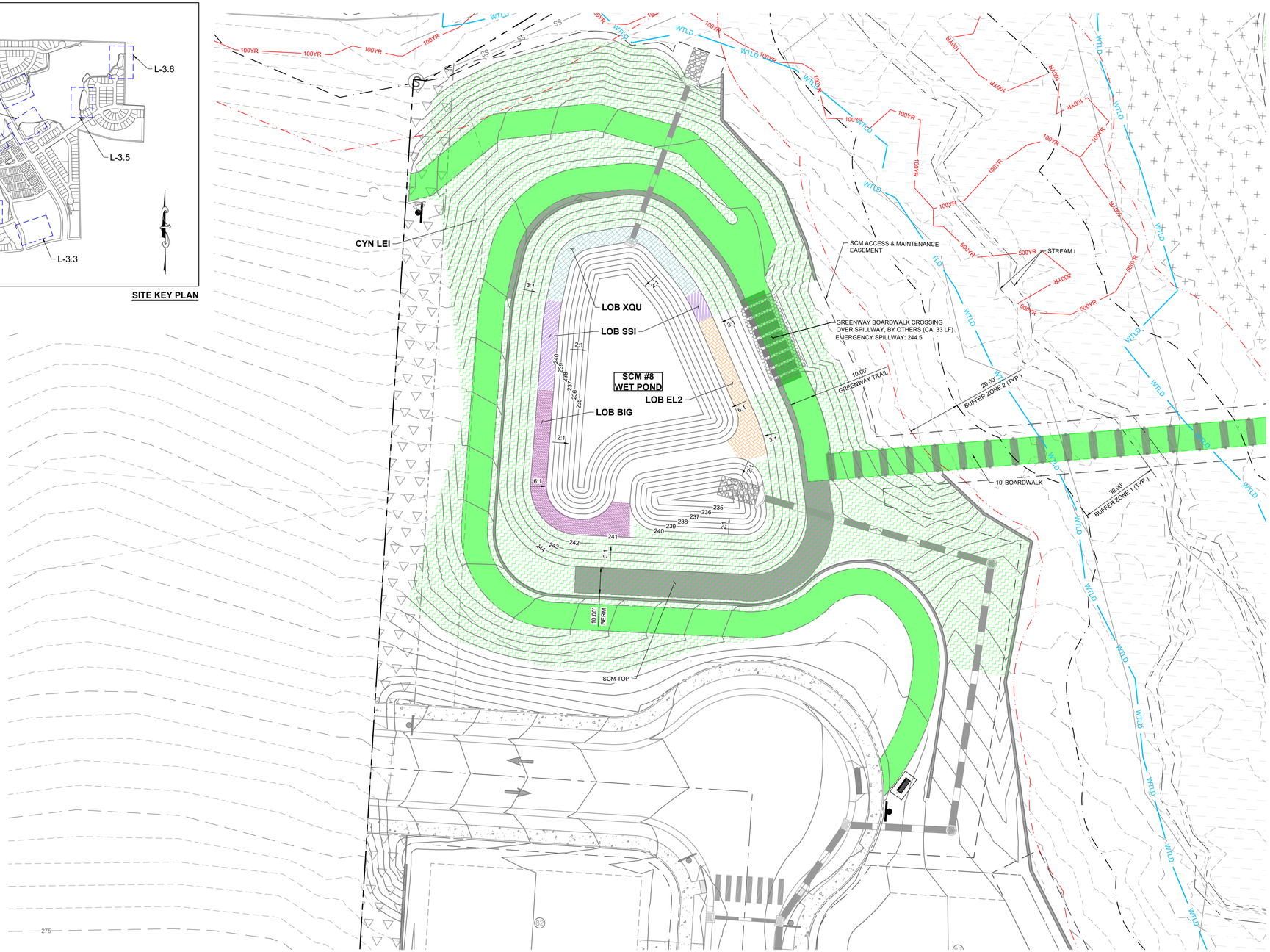
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PLANTING SCM #7

DRAWING SHEET
L-3.8

179 OF 230



SITE KEY PLAN



PLANT SCHEDULE SCM 8

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
SCM PLANTS							
	LOB SSI	267 SF	*LOBELIA CARDINALIS 'BLACK TRUFFLE'*	BLACK TRUFFLE LOBELIA	#SP1	POT	6" O.C.
	LOB XQU	463 SF	*LOBELIA CARDINALIS 'QUEEN VICTORIA'*	QUEEN VICTORIA CARDINAL FLOWER	#SP1	POT	6" O.C.
	LOB EL2	402 SF	*LOBELIA ELONGATA*	LONGLEAF LOBELIA	#SP1	POT	6" O.C.
	LOB BIG	551 SF	*LOBELIA SIFPHILITICA 'BIG BLUE'*	BIG BLUE GREAT LOBELIA	#SP1	POT	6" O.C.
		1,683 SF	SUBTOTAL:				
SOD							
	CYN LEI	19,258 SF	*CYNODON DACTYLON X TRANSVAALENSIS 'TIFWAY 419'*	TIFWAY 419 BERMUDAGRASS	SOD	SOD	120" O.C.
		19,258 SF	SUBTOTAL:				

LEGEND:

SEE SHEET L-3.0 FOR LEGEND.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SEAL:

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STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PLANTING SCM #8

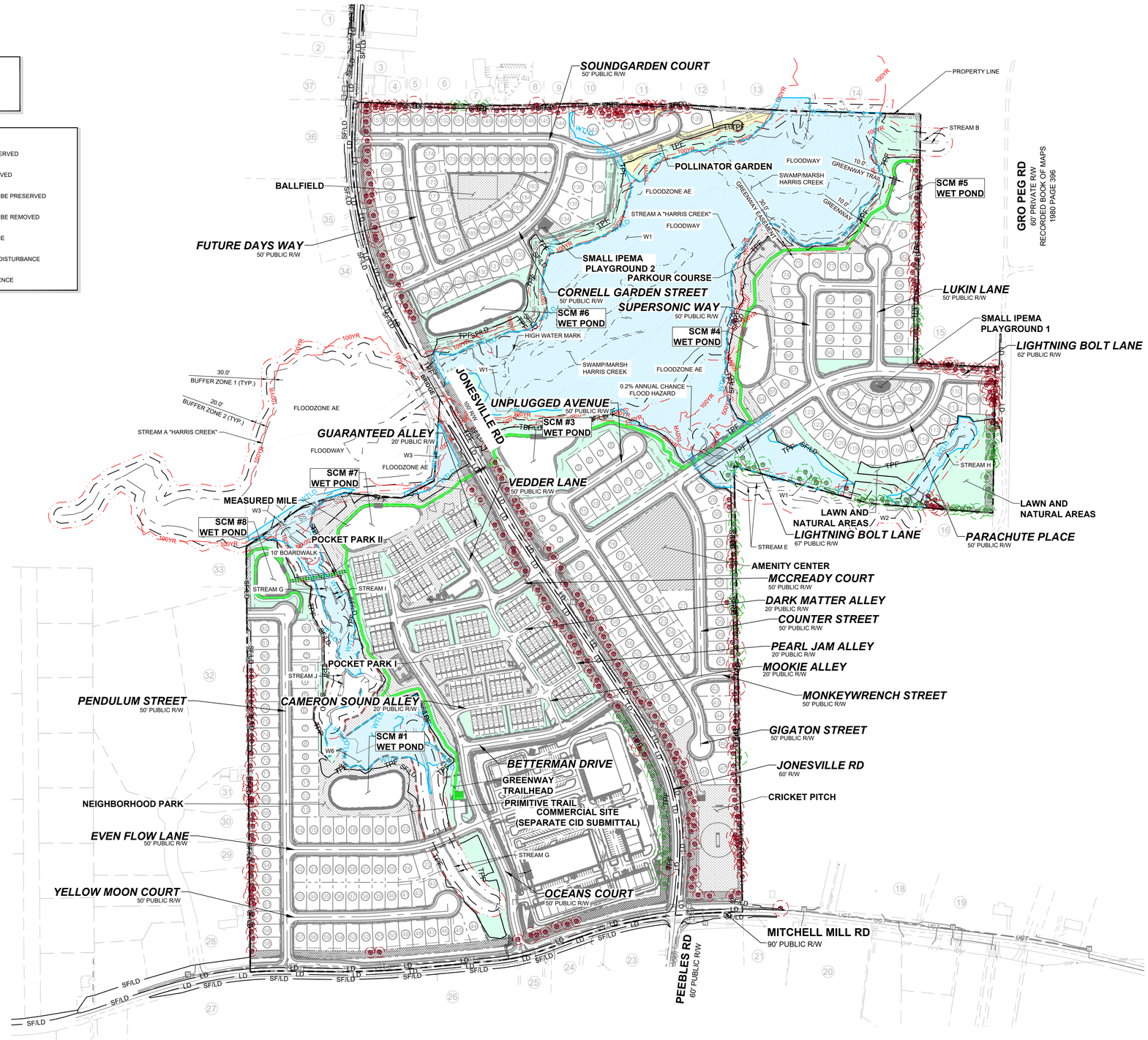
DRAWING SHEET
L-3.9

NOTE:

THE CRITICAL ROOT ZONES (CRZ) SHALL REMAIN FREE OF ALL BUILDING MATERIALS, REFUSE, AND DEBRIS. SEE SHEET C-3.0 FOR ADJACENT PROPERTY DETAILS

LEGEND:

- TREES WILL BE PRESERVED
- TREES WILL BE REMOVED
- CRZ FOR TREES WILL BE PRESERVED
- CRZ FOR TREES WILL BE REMOVED
- LD — LIMIT OF DISTURBANCE
- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE



GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

OVERALL PRESERVATION PLAN

DRAWING SHEET
C-12.0

181 OF 230

PROGRESS PLOT DATE: 8/29/2025

CHARLES ALFONSA JONES AND WIFE ALLIE V.JONES
PIN: 1757484609
DB 2305 PG 673
ZONING: R-30 (WC)
USE: SF

BENJAMIN FERRELL
PIN: 1757485713
DB 1697 PG 465
ZONING: R-30 (WC)
USE: SF

ALESHIA FERRELL & ARRON WALKER
PIN: 1757486733
DB 6374 PG 89
BM 1996 PG 00524
ZONING: R-30 (WC)
USE: SF

CHRIST HOLINESS CHURCH #1
PIN: 1757487783
DB 2928 PG 328
ZONING: R-30 (WC)
USE: CH

CHRIST HOLINESS CHURCH #1
PIN: 1757489733
DB 4321 PG 788
ZONING: R-30 (WC)
USE: VA

CHRIST HOLINESS CHURCH #1
PIN: 1757580764
DB 9467 PG 430
ZONING: R-30 (WC)
USE: VA

ALICIA BROWN & CARL T. JONES
PIN: 1757582714
DB 16128 PG 183
ZONING: R-30 (WC)
USE: SF

RS RENTAL II LLC
PIN: 1757584724
DB 18703 PG 2414
BM 1981 PG 894
ZONING: R-30 (WC)
USE: SF

KAREN E. BASS
PIN: 1757586704
DB 12560 PG 1626
BM 1984 PG 943
ZONING: R-30 (WC)
USE: SF

HENRY ALSTON
PIN: 1757481376
DB 19248 PG 984
BM 1982 PG 721
ZONING: R-30 (WC)
USE: SF

KENNETH INVESTMENT LLC
PIN: 1757471559
DB 19248 PG 1884
LOT - BM 2007 PG 01224
ZONING: R-30 (WC)
USE: VA

PROPERTY LINE
KH-282
KH-283
KH-159
GENERIC WOODEN PRIVACY FENCE 6' TALL
30.0' STREET YARD BUFFER
15.0' TYPE II PERIMETER BUFFER
BALLFIELD
FUTURE DAYS WAY
50' PUBLIC R/W
SMALL IPEMA PLAYGROUND 2
SOUNDGARDEN COURT
50' PUBLIC R/W
POLLINATOR GARDEN
CORNELL GARDEN STREET
50' PUBLIC R/W
JONESVILLE RD
60' R/W
SCM #6
WET POND
10.0' BERM
STREAM A "HARRIS CREEK"
FLOODZONE AE
FLOODWAY
BUFFER ZONE 1 (TYP.)
BUFFER ZONE 2 (TYP.)
SWAMP/MARSH HARRIS CREEK
30.0' EXISTING TOWN OF ROLESVILLE GREENWAY EASEMENT BY JOHN E. HARRIS BM 1997 PG 605

MATCH LINE
FOR CONTINUATION, SEE C-12.2

MATCH LINE
FOR CONTINUATION, SEE C-12.4

LEGEND:

- TREES WILL BE PRESERVED
- TREES WILL BE REMOVED
- CRZ FOR TREES WILL BE PRESERVED
- CRZ FOR TREES WILL BE REMOVED
- LD — LIMIT OF DISTURBANCE
- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

SITE KEY PLAN
C-12.1 C-12.2 C-12.3 C-12.4 C-12.5 C-12.6 C-12.7 C-12.8

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	08/02/2025	SREG

SEAL

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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PRESERVATION PLAN I

DRAWING SHEET
C-12.1

182 OF 230

RS RENTAL II LLC
PIN: 1757584724
DB 18703 PG 2414
BM 1981 PG 894
ZONING: R-30 (WC)
USE: SF

KAREN E. BASS
PIN: 1757586704
DB 12560 PG 1626
BM 1984 PG 943
ZONING: R-30 (WC)
USE: SF

JAMES K. WILLIAMS
PIN: 1757588784
DB 16784 PG 1013
BM 1989 PG 01474
ZONING: R-30 (WC)
USE: VA

GRO PEG PROPERTIES LLC
PIN: 1757684697
DB 18359 PG 1707
LOT 5 - BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

SCOTT & THERESA CARLE
PIN: 1757675786
DB 14863 PG 2493
LOT 4A- BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

SOUNDGARDEN COURT
50' PUBLIC R/W

SUPERSONIC WAY
50' PUBLIC R/W

LUKIN LANE
50' PUBLIC R/W

POLLINATOR GARDEN

PARKOUR COURSE

SCM #5
WET POND

SCM #4
WET POND

MATCH LINE
FOR CONTINUATION, SEE C-12.1

MATCH LINE
FOR CONTINUATION, SEE C-12.3

STREAM A "HARRIS CREEK"

STREAM B

FLOODWAY

FLOODZONE AE

FLOOD ZONE AE

SWAMP/MARSH
HARRIS CREEK

GENERIC WOODEN
PRIVACY FENCE 6' TALL

PROPERTY LINE

GREENWAY TRAIL

TYPE II PERIMETER BUFFER

BUFFER ZONE 1 (TYP)

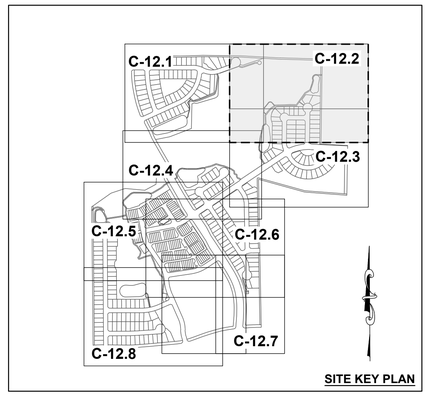
BUFFER ZONE 2 (TYP)

TOWN OF ROLESVILLE
GREENWAY EASEMENT
BM 1981 PG 655

30' G. EASEMENT

10.0' BERM

AJ-006
AJ-008
AJ-009
AJ-013
AJ-014



SITE KEY PLAN

LEGEND:

- TREES WILL BE PRESERVED
- TREES WILL BE REMOVED
- CRZ FOR TREES WILL BE PRESERVED
- CRZ FOR TREES WILL BE REMOVED
- LD — LIMIT OF DISTURBANCE
- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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ENGINEERING GROUP
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STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PRESERVATION PLAN II

DRAWING SHEET
C-12.2

183 OF 230

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PROGRESS PLOT DATE: 8/29/2025

LEGEND:

- TREES WILL BE PRESERVED
- TREES WILL BE REMOVED
- CRZ FOR TREES WILL BE PRESERVED
- CRZ FOR TREES WILL BE REMOVED
- LD — LIMIT OF DISTURBANCE
- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

MATCH LINE
FOR CONTINUATION, SEE C-12.2

MATCH LINE
FOR CONTINUATION, SEE C-12.4

STREAM A "HARRIS CREEK"

FLOODZONE AE

0.2% ANNUAL CHANCE FLOOD HAZARD

SUPERSONIC WAY
50' PUBLIC R/W

LUKIN LANE
50' PUBLIC R/W

LIGHTNING BOLT LANE
62' PUBLIC R/W

LIGHTNING BOLT LANE
67' PUBLIC R/W

PARACHUTE PLACE
50' PUBLIC R/W

COUNTER STREET
50' PUBLIC R/W

AMENITY CENTER

SCM #4
WET POND

SMALL IPEMA PLAYGROUND 1

15.00'
TYPE II PERIMETER BUFFER

GENERIC WOODEN PRIVACY FENCE 6' TALL

30.00' GREENWAY EASEMENT

10.0' GREENWAY

GREENWAY TRAIL

10.0' BERM

STREAM E

STREAM H

30.00' BUFFER ZONE 1 (TYP.)

20.00' BUFFER ZONE 2 (TYP.)

30.00' STREET YARD BUFFER

SCOTT & THERESA CARLE
PIN: 1757675786
DB 14863 PG 2493
LOT 4A
BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

MT. CALVARY HOLINESS CHURCH OF WAKE CO. INC
PIN: 1757660324
DB 10124 PG 2778
LOT 1- BM 2002 PG 991
ZONING: R-30 (WC)
USE: VA

GRO PEG PROPERTIES
PIN: 1757664956
DB 19081 PG 2786
LOT 2A- BM 1982 PG 00581
ZONING: R-30 (WC)
USE: VA

SITE KEY PLAN

C-12.1 | C-12.2 | C-12.3 | C-12.4 | C-12.5 | C-12.6 | C-12.7 | C-12.8

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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STRONG ROCK PROJECT	PSP-23-03
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PRESERVATION PLAN III

DRAWING SHEET
C-12.3

184 OF 230

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LEGEND:

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- CRZ FOR TREES WILL BE PRESERVED
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- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

SITE KEY PLAN

C-12.1 C-12.2 C-12.4 C-12.3 C-12.5 C-12.6 C-12.8 C-12.7

MATCH LINE
FOR CONTINUATION, SEE C-12.1

MATCH LINE
FOR CONTINUATION, SEE C-12.3

MATCH LINE
FOR CONTINUATION, SEE C-12.5

STREAM A "HARRIS CREEK"

SWAMP/MARSH
HARRIS CREEK

FLOODZONE AE

0.2% ANNUAL CHANCE
FLOOD HAZARD

30.00' BUFFER ZONE 1 (TYP.)

20.00' BUFFER ZONE 2 (TYP.)

10.0' GREENWAY TRAIL

30.00' GREENWAY EASEMENT

10.00' GREENWAY

10.0' BERM

35.00' STREET YARD BUFFER

15.00' TYPE II PERIMETER BUFFER

SCM #3
WET POND

SCM #7
WET POND

JONESVILLE RD
60' R/W

LIGHTNING BOLT LANE
67' PUBLIC R/W

LIGHTNING BOLT LANE
62' PUBLIC R/W

UNPLUGGED AVENUE
50' PUBLIC R/W

COUNTER STREET
50' PUBLIC R/W

GUARANTEED ALLEY
20' PUBLIC R/W

VEDDER LANE
50' PUBLIC R/W

MCCREADY COURT
50' PUBLIC R/W

GIGATON STREET
50' PUBLIC R/W

AMENITY CENTER

GENERIC WOODEN
PRIVACY FENCE 6' TALL

STREAM E

AJ-091 AJ-090 AJ-092 AJ-093 AJ-098 AJ-099 AJ-100 AJ-104 AJ-107 AJ-109

No.	REVISIONS	DATE	BY
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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PRESERVATION PLAN IV

DRAWING SHEET

C-12.4

185 OF 230

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PROGRESS PLOT DATE: 8/29/2025

LEGEND:

- TREES WILL BE PRESERVED
- TREES WILL BE REMOVED
- CRZ FOR TREES WILL BE PRESERVED
- CRZ FOR TREES WILL BE REMOVED
- LD — LIMIT OF DISTURBANCE
- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

MATCH LINE
FOR CONTINUATION, SEE C-12.4

SCM #7 WET POND

SCM #8 WET POND

30.00' EXISTING TOWN OF ROLESVILLE HARRIS CREEK INTERCEPTOR BM 1992 PG 655

KENNETH INVESTMENT LLC.
PIN: 1757368816
DB 19248 PG 1884
ZONING: R-30 (WC)
USE: VA

MEGAN KULAWIAK
PIN: 1757367367
DB 16226 PG 1133
LOT 6
BM 1990 PG 00387
ZONING: R-30 (WC)
USE: VA

15.00' TYPE II PERIMETER BUFFER

GENERIC WOODEN PRIVACY FENCE 6' TALL

10' BOARDWALK

GREENWAY TRAIL

STREAM I

STREAM G

STREAM

EXISTING DRAINED POND

BUFFER ZONE 1 (TYP.) 30'

BUFFER ZONE 2 (TYP.) 20'

W3

W4

W6

GUARANTEED ALLEY
20' PUBLIC R/W

VEDDER LANE
50' PUBLIC R/W

LIGHTNING BOLT LANE
62' PUBLIC R/W

GIGATON STREET
50' PUBLIC R/W

POCKET PARK II

MCCREADY COURT
50' PUBLIC R/W

PEARL JAM ALLEY
20' PUBLIC R/W

DARK MATTER ALLEY
20' PUBLIC R/W

JONESVILLE RD
60' R/W

30.00' STREET YARD BUFFER

POCKET PARK I

OCEANS COURT
50' PUBLIC R/W

CAMERON SOUND ALLEY
20' PUBLIC R/W

MOOKIE ALLEY
20' PUBLIC R/W

PENDULUM STREET
50' PUBLIC R/W

BETTERMAN DRIVE
50' PUBLIC R/W

MATCH LINE
FOR CONTINUATION, SEE C-12.6

MATCH LINE
FOR CONTINUATION, SEE C-12.8

SITE KEY PLAN

C-12.1, C-12.2, C-12.3, C-12.4, C-12.5, C-12.6, C-12.7, C-12.8

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG'S ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PRESERVATION PLAN V

DRAWING SHEET
C-12.5

186 OF 230

PROGRESS PLOT DATE: 8/29/2025

GUARANTEED ALLEY
20' PUBLIC R/W

VEDDER LANE
50' PUBLIC R/W

LIGHTNING BOLT LANE
62' PUBLIC R/W

GIGATON STREET
50' PUBLIC R/W

AMENITY CENTER

POCKET PARK II

MCCREADY COURT
50' PUBLIC R/W

PEARL JAM ALLEY
20' PUBLIC R/W

DARK MATTER ALLEY
20' PUBLIC R/W

JONESVILLE RD
60' R/W

POCKET PARK I

OCEANS COURT
50' PUBLIC R/W

CAMERON SOUND ALLEY
20' PUBLIC R/W

MOOKIE ALLEY
20' PUBLIC R/W

BETTERMAN DRIVE
50' PUBLIC R/W

COUNTER STREET
50' PUBLIC R/W

MONKEYWRENCH STREET
50' PUBLIC R/W

MATCH LINE
FOR CONTINUATION, SEE C-12.5

MATCH LINE
FOR CONTINUATION, SEE C-12.7

MATCH LINE
FOR CONTINUATION, SEE C-12.8

STREAM G

BUFFER ZONE 1 (TYP.)

BUFFER ZONE 2 (TYP.)

STREET YARD BUFFER

TYPE II PERIMETER BUFFER

GENERIC WOODEN PRIVACY FENCE 6' TALL

CRICKET PITCH

AJ-099
AJ-100
AJ-104
AJ-107
AJ-109
AJ-110
AJ-111
AJ-112
AJ-114
AJ-116
AJ-117B
KH-251
KH-051
KH-050
KH-049
KH-046
KH-044
KH-043
KH-042
KH-041
KH-040
KH-239

LEGEND:

- TREES WILL BE PRESERVED
- TREES WILL BE REMOVED
- CRZ FOR TREES WILL BE PRESERVED
- CRZ FOR TREES WILL BE REMOVED
- LD — LIMIT OF DISTURBANCE
- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

C-12.1
C-12.2
C-12.3
C-12.4
C-12.5
C-12.6
C-12.7
C-12.8

SITE KEY PLAN

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
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SEAL:

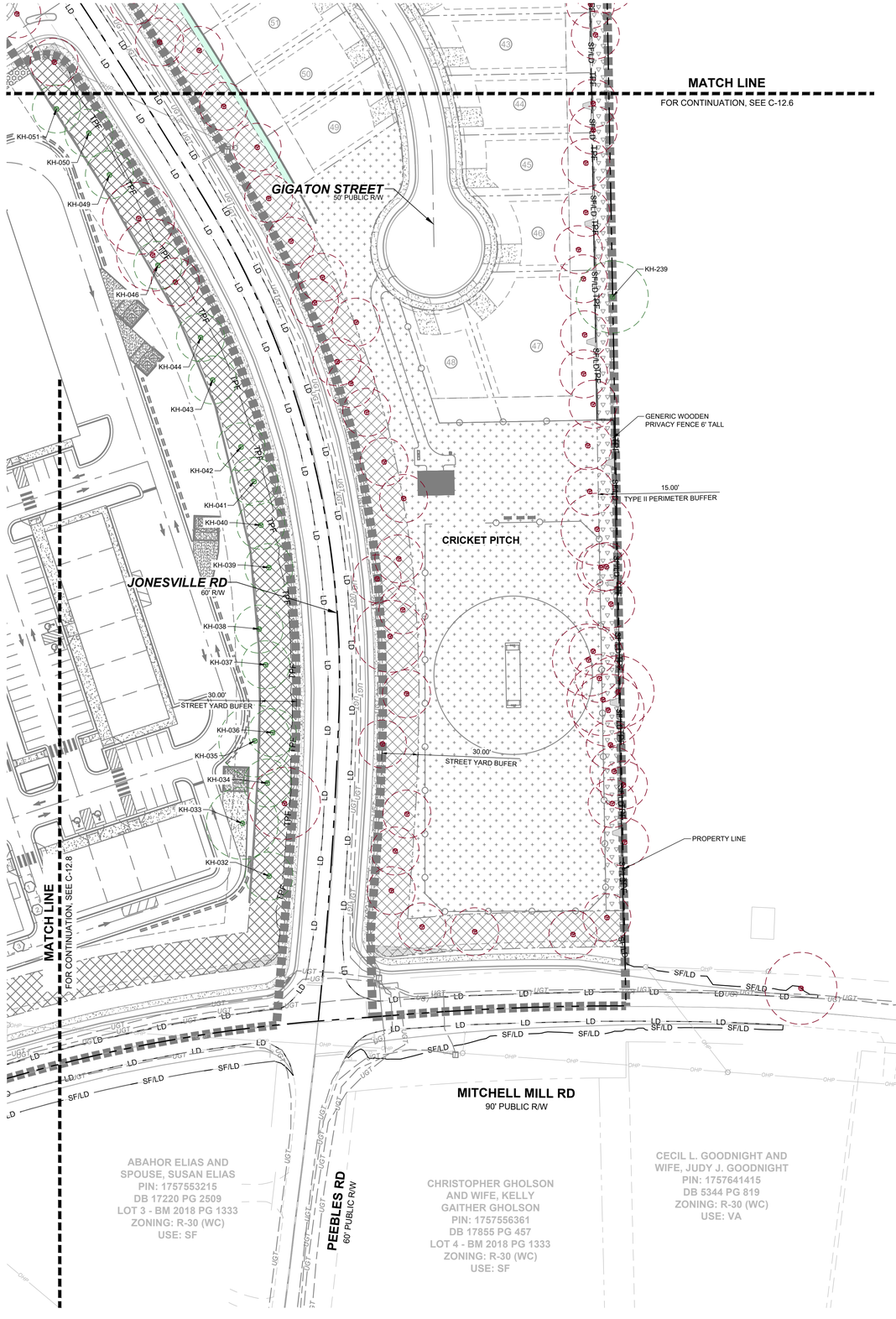
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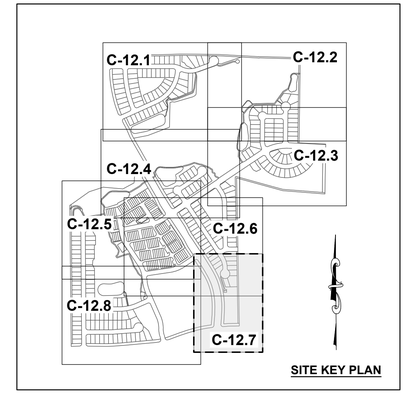
STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PRESERVATION PLAN VI

DRAWING SHEET
C-12.6

187 OF 230





LEGEND:

- TREES WILL BE PRESERVED
- TREES WILL BE REMOVED
- CRZ FOR TREES WILL BE PRESERVED
- CRZ FOR TREES WILL BE REMOVED
- LD — LIMIT OF DISTURBANCE
- SF/LD — SILT FENCE/LIMIT OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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STRONG ROCK PROJECT	PSP-23-03
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
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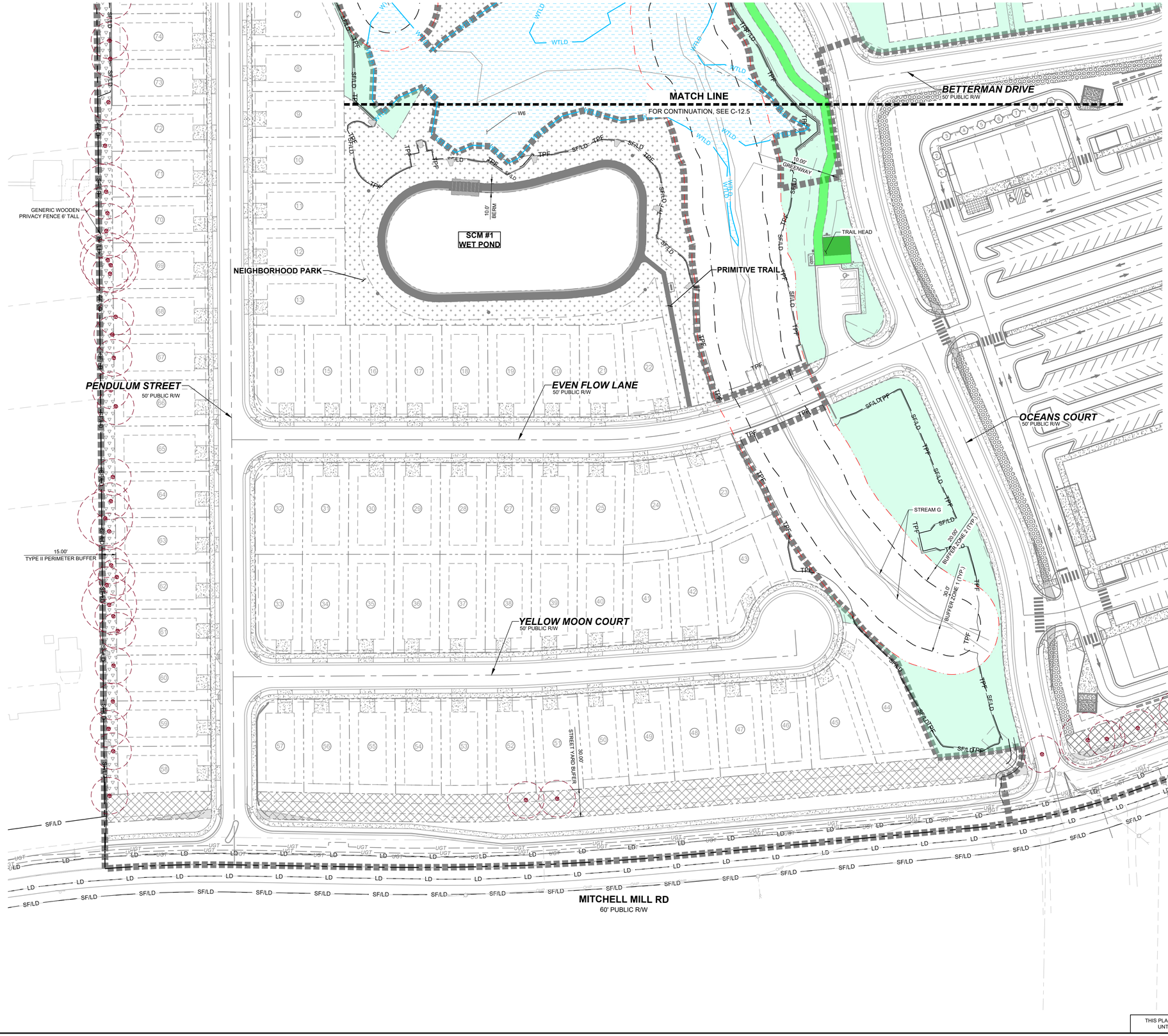
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PRESERVATION PLAN VII

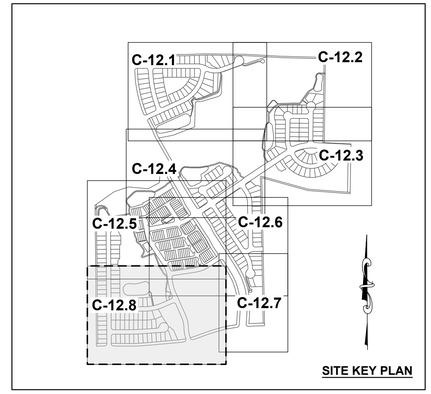
DRAWING SHEET
C-12.7

188 OF 230

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PROGRESS PLOT DATE: 8/29/2025





SITE KEY PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
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LEGEND:

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STRONG'S ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PRESERVATION PLAN VIII

DRAWING SHEET

C-12.8

189 OF 230

TREE INVENTORY SPECIES LIST	
ACRU	ACER RUBRUM
CACA	CARPINUS CAROLINIANA
CATO	CARYA TOMENTOSA
COFL	CORNUS FLORIDA
DIVI	DIOSPYROS VIRGINIANA
FRPE	FRAXINUS PENNSYLVANICA
ILOP	ILEX OPACA
JUVI	JUNIPERUS VIRGINIANA
LISI	LIGUSTRUM SINENSE
LIST	LIQUIDAMBAR STYRACIFLUA
LITU	LIRIODENDRON TULIPIFERA
MORU	MORUS RUBRA
NYSY	NYSSA SYLVATICA
OXAR	OXYDENDRUM ARBOREUM
PITA	PINUS TAEDA
PLOC	PLATANUS OCCIDENTALIS
PLOR	PLATYCLADUS ORIENTALIS
PRSE	PRUNUS SEROTINA
QUAL	QUERCUS ALBA
QUFA	QUERCUS FALCATA
QUNI	QUERCUS NIGRA
QUPA	QUERCUS PAGODA
QUPH	QUERCUS PHELLOS
QURU	QUERCUS RUBRA
QUST	QUERCUS STELLATA
QUVE	QUERCUS VELUTINA
ULAL	ULMUS ALATA
ULRU	ULMUS RUBRA

NO OF TREE	BOTANICAL NAME	CALIPER INCHES	CONDITION OVERALL
OAK	QURU	4"	GOOD
AJ-006	QURU	10"	GOOD
AJ-007	QURU	8"	GOOD
AJ-008	LIST	18"	GOOD
AJ-009	QUAL	6"	GOOD
AJ-012	QUAL	12"	GOOD
AJ-013	CATO	6"	GOOD
AJ-014	ACRU	14"	GOOD
AJ-042	LITU	22"	GOOD
AJ-043	LITU	18"	GOOD
AJ-044	PRSE	19"	FAIR
AJ-045	LITU	19"	GOOD
AJ-046	LITU	17"	GOOD
AJ-047	QUVE	31"	GOOD
AJ-048	LIST	6"	FAIR
AJ-049	QUNI	17"	GOOD
AJ-050	QUAL	12"	GOOD
AJ-051	QUAL	12"	GOOD
AJ-052	QURU	12"	GOOD
AJ-053	QUAL	4"	GOOD
AJ-054	QUAL	32"	GOOD
AJ-055	OXAR	6"	GOOD
AJ-056	QURU	19"	GOOD
AJ-057	QUAL	13"	GOOD
AJ-058	LITU	17"	GOOD

NO OF TREE	BOTANICAL NAME	CALIPER INCHES	CONDITION OVERALL
AJ-091	ACRU	30"	GOOD
AJ-092	LIST	4"	GOOD
AJ-093	LIST	9"	GOOD
AJ-094	FRPE	22"	GOOD
AJ-095	LIST	21"	GOOD
AJ-098	PRSE	8"	GOOD
AJ-099	QUNI	4"	GOOD
AJ-100	ILOP	4"	GOOD
AJ-101	QUST	29"	POOR
AJ-104	QURU	19"	GOOD
AJ-107	QURU	28"	GOOD
AJ-109	QUST	18"	GOOD
AJ-110	PRSE	6"	GOOD
AJ-111	LIST	14"	GOOD
AJ-112	PITA	21"	GOOD
AJ-114	PITA	28"	GOOD
AJ-116	QUST	20"	GOOD
AJ-117B	CACA	7"	GOOD
KH-032	DIVI	18"	GOOD
KH-033	PITA	25"	EXCELLENT
KH-034	PITA	18"	EXCELLENT
KH-035	PITA	29"	GOOD
KH-036	LIST	8"	GOOD
KH-037	ULRU	14"	GOOD
KH-038	PITA	17"	GOOD

NO OF TREE	BOTANICAL NAME	CALIPER INCHES	CONDITION OVERALL
KH-172	PITA	24"	GOOD
KH-173	LIST	9/8"	FAIR
KH-269	PITA	15"	GOOD
KH-270	PITA	15"	GOOD
KH-271	QURU	8"	GOOD
KH-282	PITA	25"	GOOD
KH-283	QUAL	16"	GOOD
KH-308	QUPH	10"	GOOD
KH-309	LIST	5"	GOOD
KH-310	QUNI	17"	FAIR
KH-311	QURU	6"	GOOD
KH-312	LITU	15"	GOOD
KH-313	LITU	18"	GOOD
KH-314	ACRU	14"	GOOD
KH-003	ACRU	31"	GOOD
KH-218	ULRU	11"	GOOD
KH-239	PITA	26"	GOOD
KH-251	LITU	31/12"	GOOD

NO OF TREE	BOTANICAL NAME	CALIPER INCHES	CONDITION OVERALL
AJ-130	LITU	21"	GOOD
AJ-131	ULRU	8"	GOOD
AJ-066	OXAF	14"	GOOD
AJ-067	ACRU	4"	GOOD
AJ-068	ACRU	5"	GOOD
AJ-069	ACRU	10"	GOOD
AJ-070	ACRU	6"	GOOD
AJ-071	ACRU	6"	GOOD
AJ-072	PRSE	9"	GOOD
AJ-073	DIVI	3"	GOOD
AJ-074	LITU	8"	FAIR
AJ-076	LITU	13"	GOOD
AJ-077	LIST	13"	GOOD
AJ-078	LIST	4"	GOOD
AJ-079	LITU	18"	POOR
AJ-080	LITU	25"	GOOD
AJ-081	PRSE	9"	GOOD
AJ-082	LITU	22"	GOOD
AJ-083	LITU	21"	GOOD
AJ-084	PLOC	41"	GOOD
AJ-086	ACRU	9"	GOOD
AJ-087	LITU	30"	GOOD
AJ-088	LIST	4"	GOOD
AJ-089	ACRU	18"	GOOD
AJ-090	ACRU	30"	GOOD

NO OF TREE	BOTANICAL NAME	CALIPER INCHES	CONDITION OVERALL
KH-039	PITA	13"	GOOD
KH-040	PITA	16"	GOOD
KH-041	QUAL	6"	GOOD
KH-042	PITA	18"	GOOD
KH-043	ULRU	6"	GOOD
KH-044	QUNI	5"	FAIR
KH-046	QUNI	6"	GOOD
KH-049	QUNI	5"	GOOD
KH-050	QUNI	5"	GOOD
KH-051	QURU	6"	GOOD
KH-151	ULRU	9"	GOOD
KH-154	MORU	10"	FAIR
KH-155	ULRU	13"	GOOD
KH-156	PITA	31"	GOOD
KH-157	PRSE	9"	GOOD
KH-158	QURU	37"	EXCELLENT
KH-159	LIST	6"	GOOD
KH-160	LITU	34"	GOOD
KH-163	QUAL	24"	GOOD
KH-164	QURU	23"	GOOD
KH-165	ILOP	9"	GOOD
KH-167	QUAL	21"	GOOD
KH-169	QUAL	22"	GOOD
KH-170	QURU	23"	GOOD
KH-171	PITA	21"	GOOD

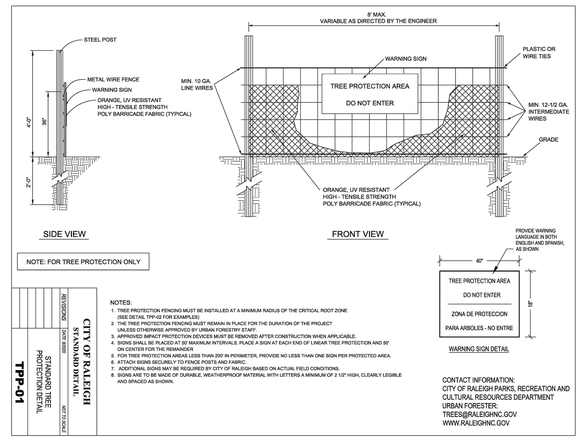
TREE TO BE REMOVED			
TYPE	NO OF TREE	BOTANICAL NAME	CALIPER INCHES
CONIFERS	AJ-004	JUVI	6"
CONIFERS	AJ-022A	PITA	20"
CONIFERS	AJ-022B	PITA	20"
CONIFERS	AJ-028	PITA	25"
CONIFERS	AJ-036	PITA	20"
CONIFERS	AJ-123	PITA	23"
CONIFERS	AJ-124	PITA	25"
CONIFERS	AJ-128	PITA	20"
CONIFERS	AJ-129	PITA	20"
CONIFERS	KH-205	PITA	20"
CONIFERS	KH-002	PITA	30"
CONIFERS	KH-021	PITA	40"
CONIFERS	KH-047	PITA	21"
CONIFERS	KH-048	PITA	21"
CONIFERS	KH-054	PITA	20"
CONIFERS	KH-069	PITA	27"
CONIFERS	KH-105	PITA	23"
CONIFERS	KH-106	PITA	22"
CONIFERS	KH-107	PITA	29"
CONIFERS	KH-108	PITA	26"
CONIFERS	KH-109	PITA	28"
CONIFERS	KH-130	PITA	21"
CONIFERS	KH-131	PITA	25"
CONIFERS	KH-145	PITA	24"
CONIFERS	KH-197	PITA	20"
CONIFERS	KH-200	PITA	20"
CONIFERS	KH-207	PITA	20"
CONIFERS	KH-277	PITA	28"
CONIFERS	KH-136	PITA	29"
CONIFERS	KH-228	PITA	22"
CONIFERS	KH-247	PITA	25"
CONIFERS	46	PITA	46"
CONIFERS	KH-205	PITA	20"

TREE TO BE REMOVED			
TYPE	NO OF TREE	BOTANICAL NAME	CALIPER INCHES
DECIDOUS	AJ-003	QUAL	10"
DECIDOUS	AJ-024	QUST	22"
DECIDOUS	AJ-030	QURU	20"
DECIDOUS	AJ-033	LITU	27"
DECIDOUS	AJ-035	LITU	23"
DECIDOUS	AJ-039	LIST	36"
DECIDOUS	AJ-040	ACRU	22"
DECIDOUS	AJ-059	LITU	24"
DECIDOUS	AJ-060	QURU	32"
DECIDOUS	AJ-062	QURU	20"
DECIDOUS	AJ-075	ACRU	21"
DECIDOUS	KH-012	QUAL	21"
DECIDOUS	KH-014	QUAL	20"
DECIDOUS	KH-016	CATO	10"
DECIDOUS	KH-017	QUNI	10"
DECIDOUS	KH-019A	QUAL	20"
DECIDOUS	KH-091	PRSE	22/14"
DECIDOUS	KH-096	PRSE	25"
DECIDOUS	KH-121A	QURU	27"
DECIDOUS	KH-168	QUFA	21"
DECIDOUS	KH-261	LITU	22"
DECIDOUS	KH-274	ULRU	20"
DECIDOUS	KH-284	QUNI	20"
DECIDOUS	KH-317	QUAL	20"
DECIDOUS	KH-319	QUAL	29"
DECIDOUS	KH-004	LITU	45"
DECIDOUS	KH-222	QURU	56"
DECIDOUS	KH-223	QURU	22"
DECIDOUS	KH-224	QURU	25"
DECIDOUS	KH-232B	QURU	20/11"
DECIDOUS	KH-250	QURU	24"
DECIDOUS	KH-253	QURU	23"

TREE TYPE	CODE SECTION	CALIPER MIN. (")	REPLACEMENT RATE	NUMBER OF TREES CUT DOWN	NUMBER OF REPLACEMENT TREES
EVERGREEN*	6.2.4.5.B.2 & 6.2.4.5.B.3	20	4 TREES	33	132
DECIDUOUS*		18	4 TREES	32	128
ALL**	6.2.4.5.B.4	60	60"	0	0
			TOTAL:	65	260

* REPLACEMENT TREES TO BE OF SIMILAR SPECIES AND SIZE

** REPLACEMENT TREE MIN 3" CALIPER



NOTES:
1. TREE PROTECTION FENCING MUST BE INSTALLED AT A MINIMUM RADIUS OF THE CRITICAL ROOT ZONE (SEE DETAIL TPP-02 FOR EXAMPLES)
2. THE TREE PROTECTION FENCING MUST REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE APPROVED BY URBAN FORESTRY STAFF.
3. APPROVED IMPACT PROTECTION DEVICES MUST BE REMOVED AFTER CONSTRUCTION WHEN APPLICABLE.
4. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER FOR THE REMAINDER
5. FOR SMALL PROJECTS WITH LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTED AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF RALEIGH BASED ON ACTUAL FIELD CONDITIONS.
8. SIGNS ARE TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL WITH LETTERS A MINIMUM OF 2 1/2" HIGH, CLEARLY LEGIBLE AND SPACED AS SHOWN.

CONTACT INFORMATION:
CITY OF RALEIGH PARKS, RECREATION AND CULTURAL RESOURCES DEPARTMENT
URBAN FORESTER:
TREES@RALEIGHNC.GOV
WWW.RALEIGHNC.GOV

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No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PRESERVATION PLAN TABLES

DRAWING SHEET
C-12.9

PROGRESS PLOT DATE: 8/29/2025



SIGN LEGEND:

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1, R1-3P	30"X30"
20 MPH	R2-1	24"X30"
DEAD END	W14-1	30"X30"
STREET NAME	D3-1	VARIES"X12"
PEDESTRIAN CROSSING	W11-2, W16-7P	30"X30", 12"X24"
PARKING		24"X30"

2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT SIGN DEEP X 12-IN DIA. CONCRETE FOOTING. MUTCD STD. SIZE NCDOT PRIOR TO SIGN INSTALLATION.

3. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY THE TOWN OF ROLESVILLE

4. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE TOWN OF ROLESVILLE, NCDOT STANDARDS AND SPECIFICATIONS.

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

OVERALL SIGNAGE & PAVEMENT MARKING PLAN

DRAWING SHEET
C-13.0

191 OF 230

PROGRESS PLOT DATE: 8/29/2025

CHARLES ALFONSA JONES AND WIFE ALLIE V.JONES
PIN: 1757484609
DB 2305 PG 673
ZONING: R-30 (WC)
USE: SF

1 STORY BRICK HOUSE

BENJAMIN FERRELL
PIN: 1757485713
DB 1697 PG 465
ZONING: R-30 (WC)
USE: SF

ALESHIA FERRELL & ARRON WALKER
PIN: 1757486733
DB 6374 PG 89
BM 1996 PG 00524
ZONING: R-30 (WC)
USE: SF

CHRIST HOLINESS CHURCH #1
PIN: 1757487783
DB 2928 PG 328
ZONING: R-30 (WC)
USE: CH

CHRIST HOLINESS CHURCH #1
PIN: 1757489733
DB 4321 PG 788
ZONING: R-30 (WC)
USE: VA

CHRIST HOLINESS CHURCH #1
PIN: 1757580764
DB 9467 PG 430
ZONING: R-30 (WC)
USE: VA

ALICIA BROWN & CARL T. JONES
PIN: 1757582714
DB 16128 PG 183
ZONING: R-30 (WC)
USE: SF

RS RENTAL II LLC
PIN: 1757584724
DB 18703 PG 2414
BM 1981 PG 894
ZONING: R-30 (WC)
USE: SF

KAREN E. BASS
PIN: 1757586704
DB 12560 PG 1626
BM 1984 PG 943
ZONING: R-30 (WC)
USE: SF

HENRY ALSTON
PIN: 1757481376
DB 19248 PG 984
BM 1982 PG 721
ZONING: R-30 (WC)
USE: SF

KENNETH INVESTMENT LLC
PIN: 1757471559
DB 19248 PG 1884
LOT - BM 2007 PG 01224
ZONING: R-30 (WC)
USE: VA

STOP R1-1
STREET NAME SIGN
STOP ALL WAY R1-1 R1-3P
CROSSWALK (TYP.)
STOP BAR (TYP.)
DEAD END W14-1 (30x30)
SPEED LIMIT 20 R2 - 1 (24X30)

FUTURE DAYS WAY
50' PUBLIC R/W

SOUNDGARDEN COURT
50' PUBLIC R/W

POLLINATOR GARDEN

BALLFIELD

SMALL IPEMA PLAYGROUND 2

CORNELL GARDEN STREET
50' PUBLIC R/W

JONESVILLE RD
100' R/W

SCM #6
WET POND

WTLD
SS
100YR

MATCH LINE
FOR CONTINUATION, SEE C-13.2

MATCH LINE
FOR CONTINUATION, SEE C-13.4

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

SITE KEY PLAN
C-13.1
C-13.2
C-13.3
C-13.4
C-13.5
C-13.6
C-13.7
C-13.8
C-13.9

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
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DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PARTIAL SIGNAGE & PAVEMENT MARKING PLAN I

DRAWING SHEET
C-13.1

RS RENTAL II LLC
PIN: 1757584724
DB 18703 PG 2414
BM 1981 PG 894
ZONING: R-30 (WC)
USE: SF

KAREN E. BASS
PIN: 1757586704
DB 12560 PG 1626
BM 1984 PG 943
ZONING: R-30 (WC)
USE: SF

JAMES K. WILLIAMS
PIN: 1757588784
DB 16784 PG 1013
BM 1989 PG 01474
ZONING: R-30 (WC)
USE: VA

GRO PEG PROPERTIES LLC
PIN: 1757684697
DB 18359 PG 1707
LOT 5 - BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

SOUNDGARDEN COURT
50' PUBLIC R/W

POLLINATOR GARDEN

MATCH LINE
FOR CONTINUATION, SEE C-13.1

SCM #5
WET POND

GREENWAY TRAIL SIGN
LISTING RULES AND REGULATIONS

PARKOUR COURSE

SUPERSONIC WAY
50' PUBLIC R/W

STOP BAR (TYP.)

STOP
R1-1
R1-3P

DEAD END
W14-1
(30x30)

CROSSWALK (TYP.)

STREET NAME SIGN

MATCH LINE
FOR CONTINUATION, SEE C-13.3

SCM #4
WET POND

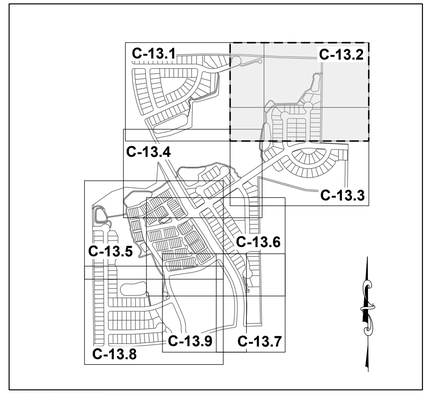
SUPERSONIC WAY
50' PUBLIC R/W

LUKIN LANE
50' PUBLIC R/W

SCOTT & THERESA CARLE
PIN: 1757675786
DB 14863 PG 2493
LOT 4A- BM 1980 PG 00396
ZONING: R-30 (WC)
USE: VA

GRO PEG RD
60' PRIVATE R/W
RECORDED BOOK OF MAPS
1980 PAGE 396

SITE KEY PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

No.	REVISIONS	DATE	BY
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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

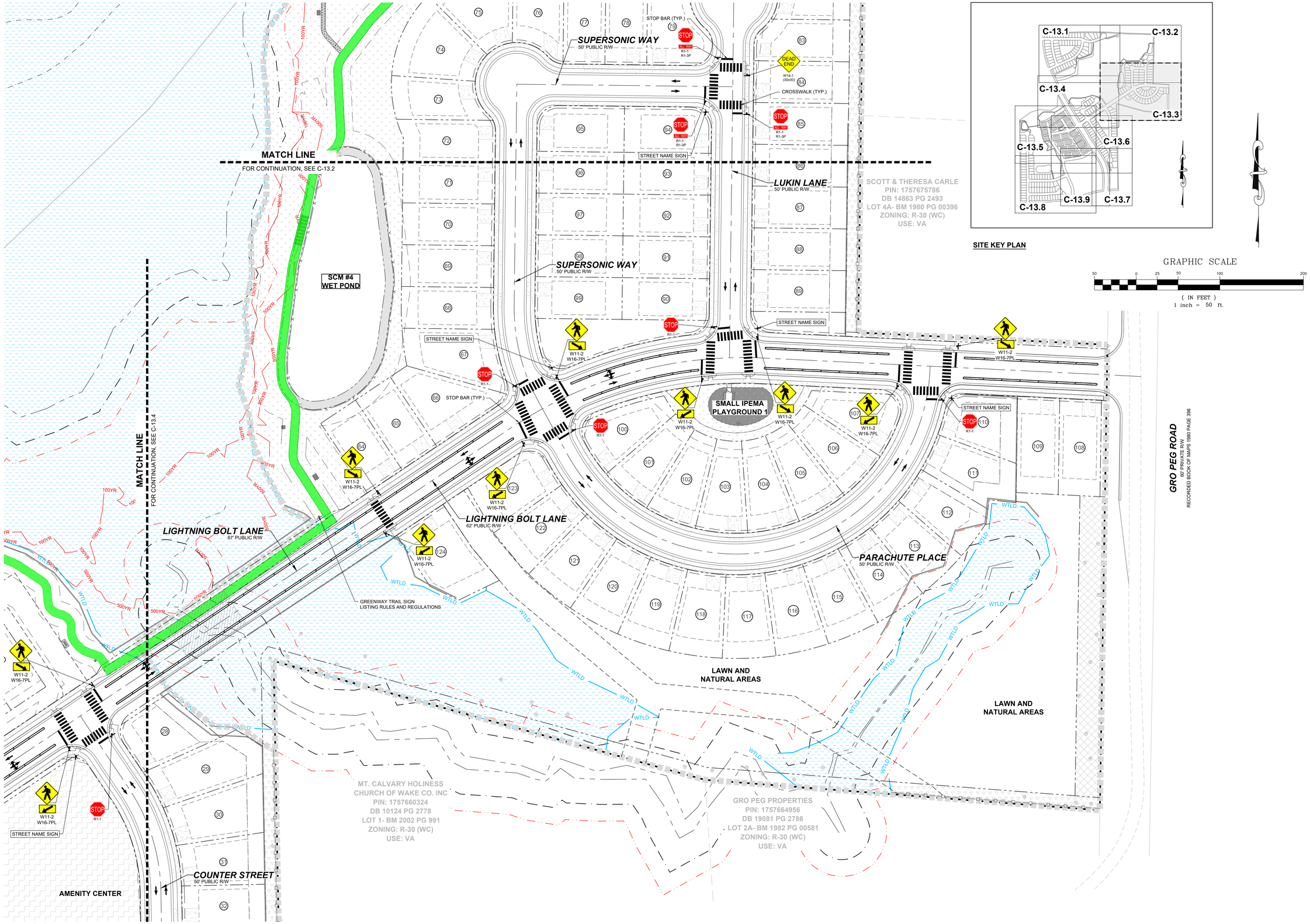
PARTIAL SIGNAGE & PAVEMENT MARKING PLAN II

DRAWING SHEET
C-13.2

193 OF 230

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PROGRESS PLOT DATE: 8/29/2025



SITE KEY PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONGS ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL SIGNAGE & PAVEMENT MARKING PLAN III

DRAWING
SHEET

C-13.3

194 OF 230

THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

PROGRESS PLOT DATE: 8/29/2025

MATCH LINE
FOR CONTINUATION, SEE C-13.1

MATCH LINE
FOR CONTINUATION, SEE C-13.3

MATCH LINE
FOR CONTINUATION, SEE C-13.5

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

SITE KEY PLAN
C-13.1 C-13.2 C-13.4 C-13.3 C-13.5 C-13.6 C-13.9 C-13.7 C-13.8

SCM #3
WET POND

SCM #7
WET POND

UNPLUGGED AVENUE
50' PUBLIC R/W

LIGHTNING BOLT LANE
67' PUBLIC R/W

LIGHTNING BOLT LANE
62' PUBLIC R/W

GUARANTEED ALLEY
20' PUBLIC R/W

VEDDER LANE
50' PUBLIC R/W

JONESVILLE RD
100' R/W

GIGATON STREET
50' PUBLIC R/W

COUNTER STREET
50' PUBLIC R/W

AMENITY CENTER

DEAD END
W14-1
(30x30)

STREET NAME SIGN

W11-2
W16-7PL

STOP
R1-1

CROSSWALK (TYP.)

STOP BAR (TYP.)

ALL WAY
R1-1
R1-3P

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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STRONG ROCK PROJECT	P&P-22-03
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL SIGNAGE & PAVEMENT MARKING PLAN IV

DRAWING SHEET
C-13.4

195 OF 230

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PROGRESS PLOT DATE: 8/29/2025

MATCH LINE
FOR CONTINUATION, SEE C-13.1

MATCH LINE
FOR CONTINUATION, SEE C-13.3

MATCH LINE
FOR CONTINUATION, SEE C-13.5

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

SITE KEY PLAN
C-13.1 C-13.2 C-13.4 C-13.3 C-13.5 C-13.6 C-13.9 C-13.7 C-13.8

SCM #3
WET POND

SCM #7
WET POND

UNPLUGGED AVENUE
50' PUBLIC R/W

GUARANTEED ALLEY
20' PUBLIC R/W

VEDDER LANE
50' PUBLIC R/W

JONESVILLE RD
100' R/W

LIGHTNING BOLT LANE
62' PUBLIC R/W

LIGHTNING BOLT LANE
67' PUBLIC R/W

GIGATON STREET
50' PUBLIC R/W

COUNTER STREET
50' PUBLIC R/W

AMENITY CENTER

W11-2 W16-7PL
STREET NAME SIGN
STOP R1-1
DEAD END W14-1 (30x30)
CROSSWALK (TYP.)
STOP BAR (TYP.)
ALL WAY R1-1 R1-3P
PARKING
100YR 500YR WTLD OHP SS

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
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RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL SIGNAGE & PAVEMENT MARKING PLAN IV

DRAWING SHEET
C-13.4

195 OF 230

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PROGRESS PLOT DATE: 8/29/2025

GUARANTEED ALLEY
20' PUBLIC R/W

LIGHTNING BOLT LANE
62' PUBLIC R/W

VEDDER LANE
50' PUBLIC R/W

JONESVILLE RD
100' R/W

AMENITY CENTER

COUNTER STREET
50' PUBLIC R/W

GIGATON STREET
50' PUBLIC R/W

MONKEYWRENCH STREET
50' PUBLIC R/W

JONESVILLE RD
60' R/W

POCKET PARK II

MCCREADY COURT
50' PUBLIC R/W

POCKET PARK I

DARK MATTER ALLEY
20' PUBLIC R/W

PEARL JAM ALLEY
20' PUBLIC R/W

OCEANS COURT
50' PUBLIC R/W

MOOKIE ALLEY
20' PUBLIC R/W

CAMERON SOUND ALLEY
20' PUBLIC R/W

BETTERMAN DRIVE
50' PUBLIC R/W

OCEANS COURT
50' PUBLIC R/W

CRICKET PITCH

STREET NAME SIGN

CROSSWALK (TYP.)

STOP BAR (TYP.)

W11-2
W16-7PL

STOP
R1-1

ALL WAY
R1-1
R1-3P

DEAD END
W14-1
(30x30)

TYPE III BARRICADES (TYP.)

GREENWAY TRAIL SIGN
LISTING RULES AND REGULATIONS

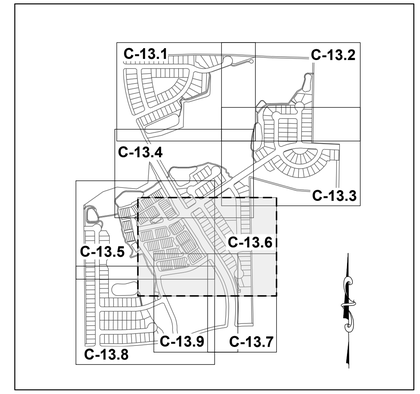
WTLD

OHP

MATCH LINE
FOR CONTINUATION, SEE C-13.5

MATCH LINE
FOR CONTINUATION, SEE C-13.7

MATCH LINE
FOR CONTINUATION, SEE C-13.8



SITE KEY PLAN

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

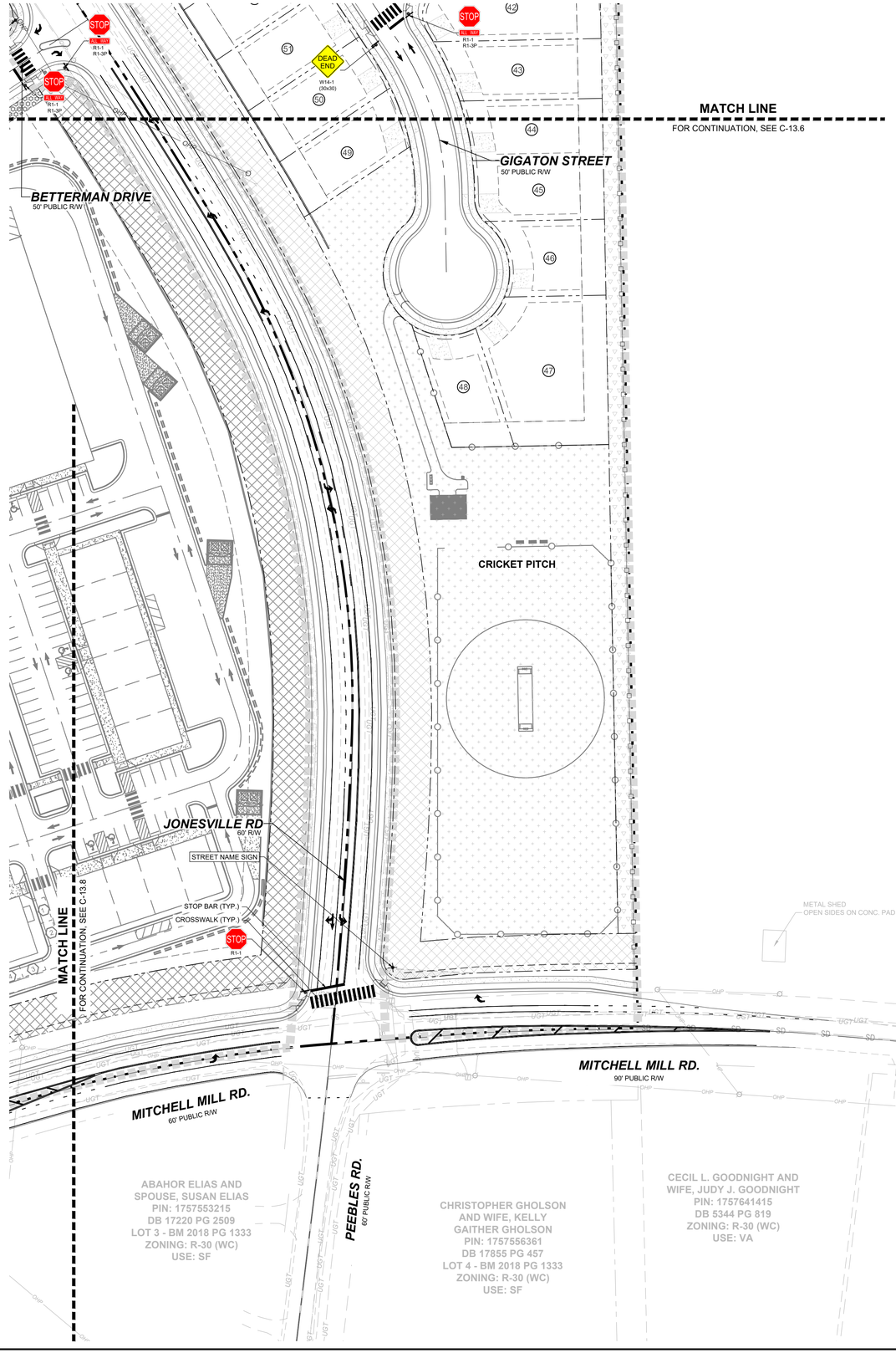
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ENGINEERING GROUP
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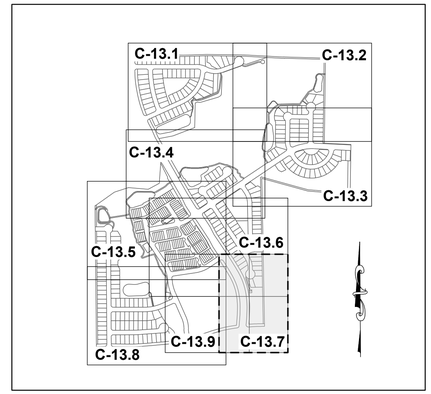
STRONG ROCK PROJECT	P9P-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL SIGNAGE & PAVEMENT MARKING PLAN VI

DRAWING SHEET
C-13.6





SITE KEY PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL SIGNAGE & PAVEMENT MARKING PLAN VII

DRAWING SHEET

C-13.7

198 OF 230

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PROGRESS PLOT DATE: 8/29/2025

MATCH LINE
FOR CONTINUATION, SEE C-13.5

MATCH LINE
FOR CONTINUATION, SEE C-13.7

BETTERMAN DRIVE
50' PUBLIC R/W

EVEN FLOW LANE
50' PUBLIC R/W

PENDULUM STREET
50' PUBLIC R/W

YELLOW MOON COURT
50' PUBLIC R/W

OCEANS COURT
50' PUBLIC R/W

MITCHELL MILL RD.
60' PUBLIC R/W

SCM #1
WET POND

NEIGHBORHOOD PARK

PRIMITIVE TRAIL

GREENWAY TRAIL SIGN
LISTING RULES AND REGULATIONS

STREET NAME SIGN

STOP BAR (TYP.)

CROSSWALK (TYP.)

W11-2
W16-7PL

DEAD END
W14-1
(30x30)

NO LEFT TURN SIGN

WTLD

UGT

OHP

MARCIE L. HOLDEN
PIN: 1757358908
DB 15599 PG 1003
LOT 5
BM 1990 PG 956
ZONING: R-30 (WC)
USE: SF

BERNARD MILLER
PIN: 1757357865
DB 15416 PG 1651
LOT 4
BM 1990 PG 956
ZONING: R-30 (WC)
USE: SF

TOUTLOFF, KENNETH S. TOUTLOFF, BILLIE ANNE
PIN: 1757357764
DB 9236 PG 2229
LOT 3
BM 1990 PG 956
ZONING: R-30 (WC)
USE: SF

PERR Y.ELWOOD RYAN
PIN: 1757357582
DB 19292 PG 2780
ZONING: R-30 (WC)
USE: MO

PHETIS JONES BRADSHER
PIN: 1757349473
DB 15208 PG 2320
BM 2013 PG 868
ZONING: R-30 (WC)
USE: FO

CURTIS L. HONEYCUTT AND WIFE TODD KENDALL
PIN: 1757540996
DB 19269 PG 2474
LOT 1 - BM 2018 PG 1333
ZONING: R-30 (WC)
USE: SF

TODD KENDALL HONEYCUTT
PIN: 1757551202
DB 13474 PG 1974
LOT 2 - BM 2018 PG 1333
ZONING: R-30 (WC)
USE: SF

HOUSE
SHED
GARAGE
1 STORY MOBILE HOME

SITE KEY PLAN

C-13.1
C-13.2
C-13.3
C-13.4
C-13.5
C-13.6
C-13.7
C-13.8
C-13.9

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

No.	REVISIONS	DATE	BY
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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	08/02/2025	SREG

SEAL

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STRONG ROCK PROJECT	PSF-23-03
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CHECKED BY	SRG

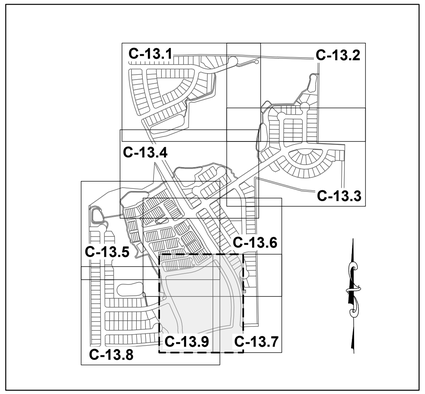
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL SIGNAGE & PAVEMENT MARKING PLAN VIII

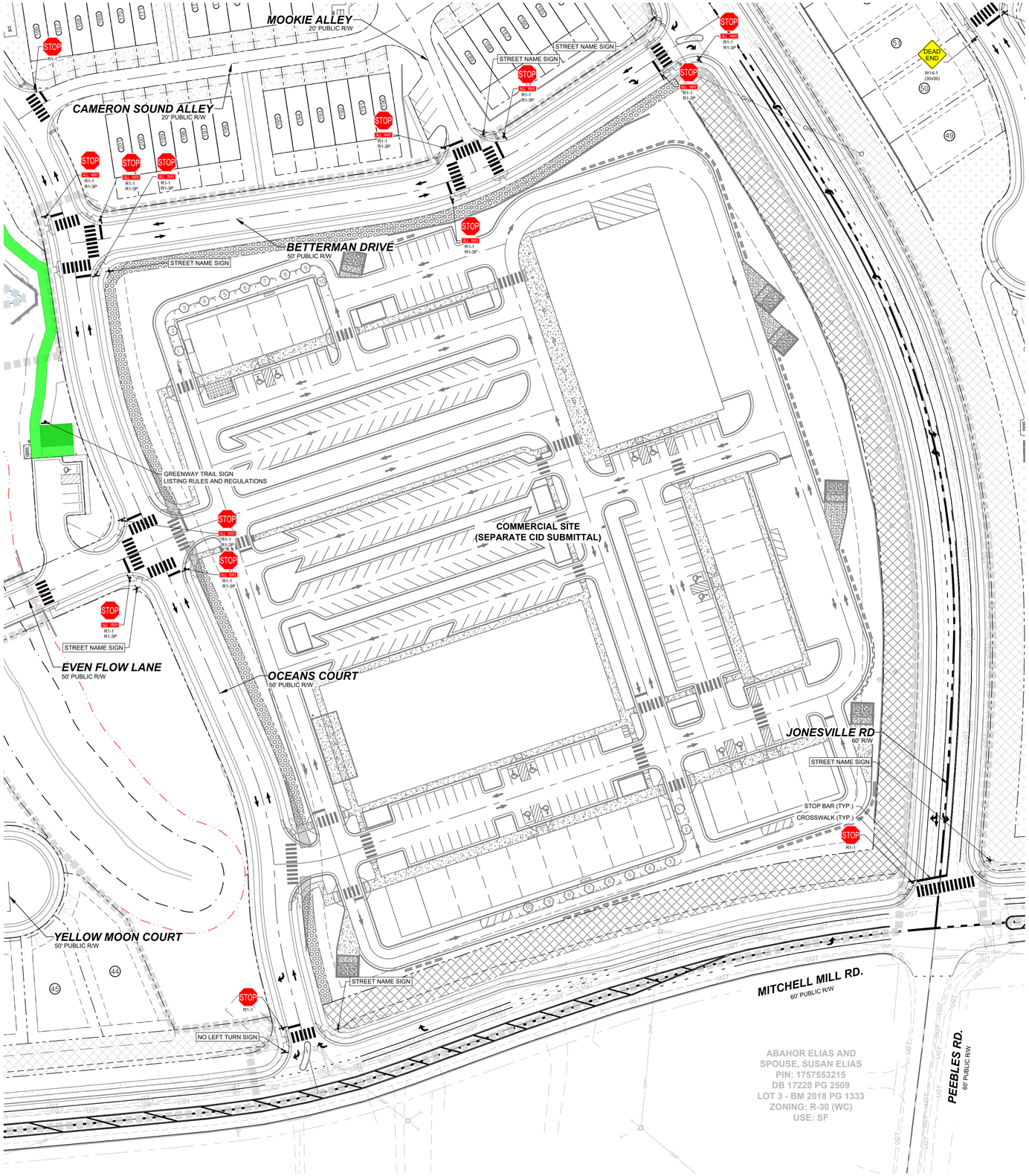
DRAWING SHEET
C-13.8

199 OF 230

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SITE KEY PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

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STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

PARTIAL SIGNAGE & PAVEMENT MARKING PLAN IX

DRAWING SHEET
C-13.9

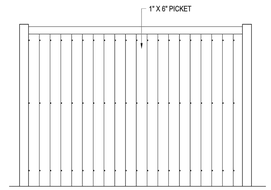
Humboldt™

HUMBOLDT SAWMILL
3700 OLD REDWOOD HWY, SUITE 200
SANTA ROSA, CA 95403
www.getredwood.com

☑ SELECT DESIRED STYLE:
- ☐ DOG-EAR
- ☐ FLAT-TOP (SHOWN)

☑ SELECT DESIRED SIZE:
- ☐ 1" X 4"
- ☐ 1" X 6" (SHOWN)
- ☐ 1" X 8"
- ☐ 1" X 10"
- ☐ 1" X 12"

☑ SELECT DESIRED GRADE:
- ☐ CONSTRUCTION COMMON (PREMIUM)
- ☐ CONSTRUCTION HEART
- ☐ CLEAR RIDGE & VALLEY



FRONT VIEW

SPECIFICATIONS
FINISH CHARACTERISTICS: ROUGH
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5348-029

1 / D-1.0 **REDWOOD FENCING**

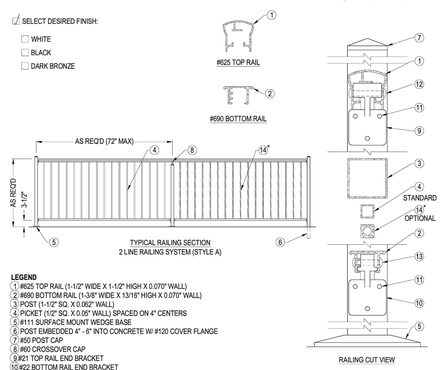
REDWOOD FENCING: 1" X 6" FENCE PICKET FLAT-TOP

5348-029 REVISION DATE 07/09/2021
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555 E MAIN ST. P.O. BOX 430
RUSSIA, OH 45363
TOLL FREE: 1-800-548-8656
PHONE: (937) 526-4065
www.superioraluminum.com

☑ SELECT DESIRED FINISH:
- ☐ WHITE
- ☐ BLACK
- ☐ DARK BRONZE



LEGEND
1. #625 TOP RAIL (1-1/2" WIDE X 1-1/2" HIGH X 0.070" WALL)
2. #690 BOTTOM RAIL (1-3/8" WIDE X 13/16" HIGH X 0.070" WALL)
3. POST (1-1/2" SQ. X 0.062" WALL)
4. PICKET (1/2" SQ. X 0.05" WALL) SPACED ON 4" CENTERS
5. #111 SURFACE MOUNT WEDGE BASE
6. POST EMBEDDED 4" - 6" INTO CONCRETE W/ #120 COVER FLANGE
7. #50 POST CAP
8. #60 CROSSOVER CAP
9. #21 TOP RAIL END BRACKET
10. #22 BOTTOM RAIL END BRACKET
11. #452 POST BRACKET RIVET (1/8")
12. #612 TOP RAIL BRACKET BINDER BOLT (13/64")
13. #613 BOTTOM RAIL BRACKET BINDER BOLT (13/64")
14. TWISTED PICKET (1/2" SQ. X 0.094" WALL) SPACED ON 4" CENTERS

NOTES:
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5311-010

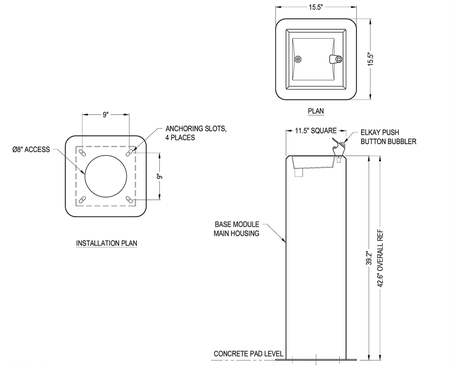
2 / D-1.0 **ECONOMY PICKET RAILING**

SERIES 6E: 2 LINE RAILING SYSTEM (STYLE A)

5311-010 REVISION DATE 26/07/2022
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knill site furnishings

KNILL SITE FURNISHINGS
PO BOX 20027 NORTHVILLE
PARIS, ON N3L 4A5
PHONE: (519) 442-2424
www.knillcustomfab.com



SPECIFICATIONS
MATERIAL: RUGGED 11 GA. STAINLESS STEEL HOUSING AND BASIN
MANUFACTURERS NOTES:
1. KNILL FABRICATION LTD. MAINTAINS A POLICY OF CONTINUOUS PRODUCT IMPROVEMENT. AS A RESULT, SOME DETAILS MAY CHANGE WITHOUT NOTICE.

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5436-073.

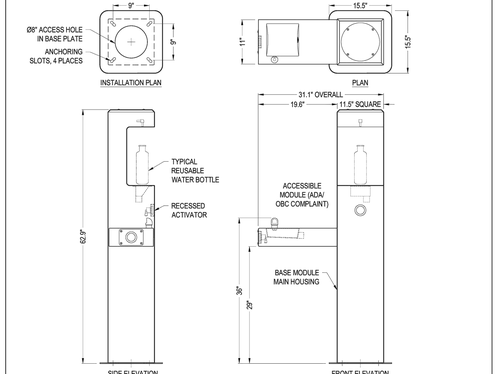
3 / D-1.0 **DRINKING FOUNTAINS AND BOTTLE FILLING STATIONS**

(350000) DRINKING FOUNTAIN, SINGLE BASIN

5436-073 REVISION DATE 15/08/2022
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knill site furnishings

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PO BOX 20027 NORTHVILLE
PARIS, ON N3L 4A5
PHONE: (519) 442-2424
www.knillcustomfab.com



SPECIFICATIONS
MATERIAL: RUGGED 11 GA. STAINLESS STEEL HOUSING WITH POLYESTER POWDER TOP COAT
MANUFACTURERS NOTES:
1. KNILL FABRICATION LTD. MAINTAINS A POLICY OF CONTINUOUS PRODUCT IMPROVEMENT. AS A RESULT, SOME DETAILS MAY CHANGE WITHOUT NOTICE.

NOTES:
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5436-077.

3.1 / D-1.0 **DRINKING FOUNTAINS AND BOTTLE FILLING STATIONS**

(350040) "THE ATHABASCA" - BOTTLE FILLING STATION, WITH ACCESSIBLE DRINKING MODULE

5436-077 REVISION DATE 15/08/2022
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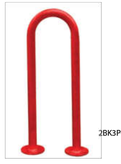
leisure craft INC.

P.O. Box 1700 • Hendersonville, NC 28793 • Tel: (800) 633-8241 • (828) 693-8241
Fax: (828) 693-8777 • www.leisurecraftinc.com • sales@leisurecraftinc.com

SPEC SHEET: 2BK3P-IG

14 3/4" THERMOPLASTIC WAVE RACK 2 3/8" DIA *in-ground* **Wt. 87 lbs**

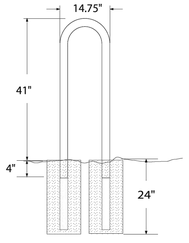
photo



top view



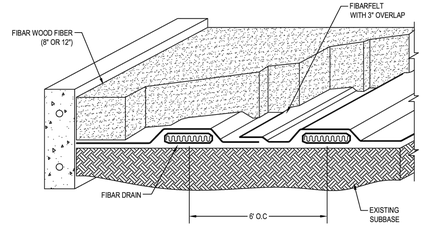
front view



4 / D-1.0

Fibar

THE FIBAR GROUP LLC
80 BUSINESS PARK DRIVE, SUITE 300
ARMONK, NY 10504
TOLL FREE: 1-800-342-2721
PHONE: (914) 273-8770
FAX: (914) 273-8659
www.fibar.com



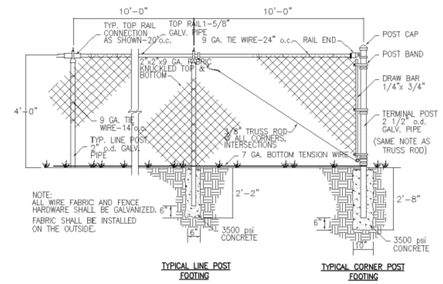
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 312-005

5 / D-1.0 **ENGINEERED WOOD FIBER PLAYGROUND SAFETY SURFACING**

SYSTEM 300, N.T.S.

312-005 REVISION DATE 21/06/2024
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C



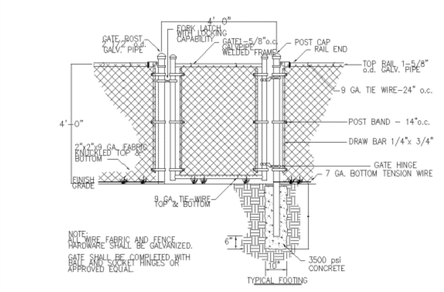
6 / D-1.0 **FENCING**

4' CHAIN LINK FENCE

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7 / D-1.0 **FENCING**

4' CHAIN LINK GATE

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No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

STRONGROCK ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

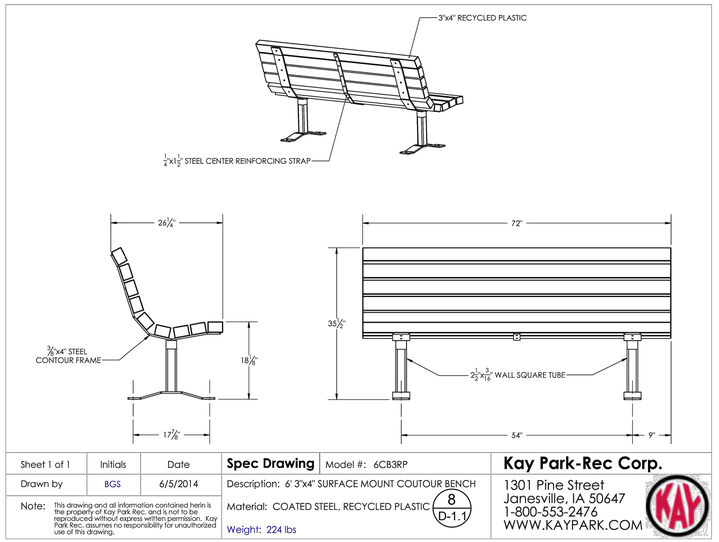
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

AMENITIES DETAILS

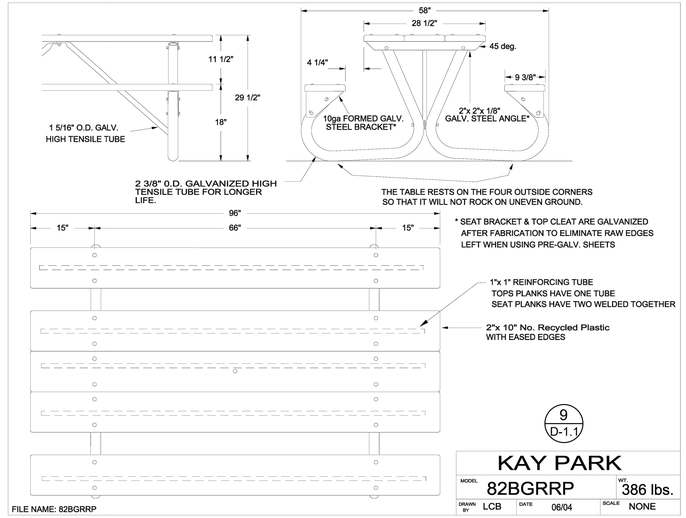
DRAWING SHEET
D-1.0

201 OF 230

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Sheet 1 of 1	Initials	Date	**Spec Drawing**	Model #: 6CB3RP	**Kay Park-Rec Corp.**
Drawn by	BGS	6/5/2014	Description: 6' 3"x4" SURFACE MOUNT COUTOUR BENCH		1301 Pine Street Janesville, IA 50647 1-800-553-2476 WWW.KAYPARK.COM
Note: This drawing and all information contained herin is the property of Kay Park Rec, and is not to be reproduced without express written permission. Kay Park Rec, assumes no responsibility for unauthorized use of this drawing.			Material: COATED STEEL, RECYCLED PLASTIC Weight: 224 lbs	8 D-1.1	

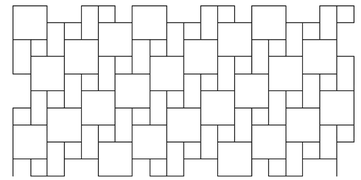


FILE NAME: 82BGRRP

KAY PARK

MODEL	82BGRRP	WT.	386 lbs.
DRAWN BY	LCB	DATE	06/04
SCALE	NONE		

PATTERN PAVING PRODUCTS
1750 HWY 160 WEST, SUITE 101-222
FORT MILL, SC 29708
TOLL FREE: 1-888-434-8611
PHONE: (704) 996-7248
FAX: (215) 893-4827
www.patternpaving.com



PLAN VIEW

5' X 10' ASPHALT CABLE STAMPING TEMPLATE
BRICK SIZES ARE 6" X 6" TO 12" X 12" (15.25CM X 15.25CM TO 30.50CM X 30.50CM)
PATTERN IS WOVEN TILE WITH 3/8" (.75CM) MORTAR

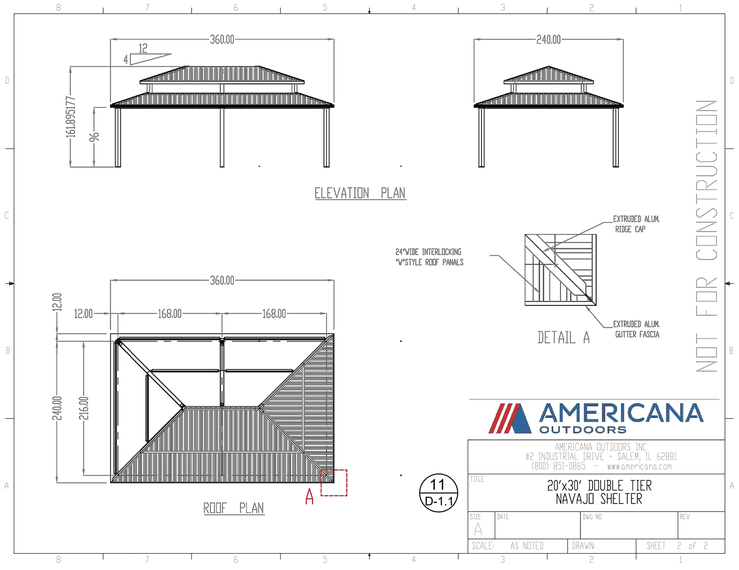
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 4728-008.

10 D-1.1 **CABLE PATTERNS**
STAMPED ASPHALT: HAMPTON TILE

4728-008 REVISION DATE 05/16/2012

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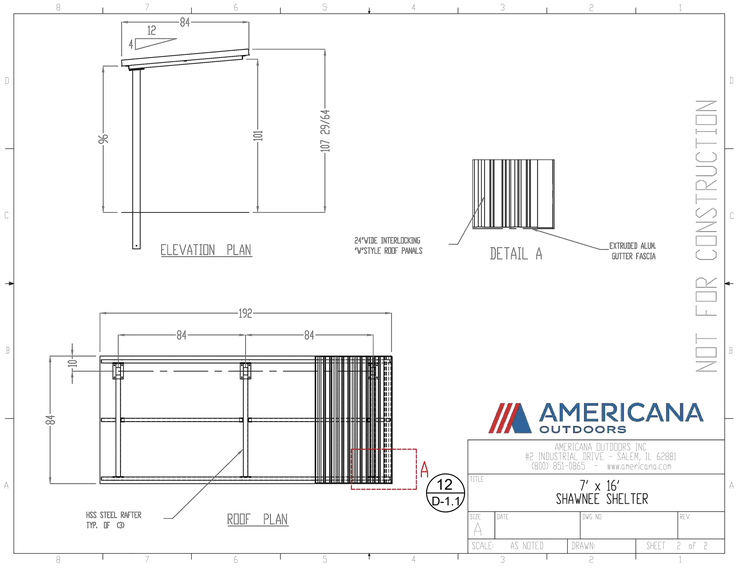


AMERICANA OUTDOORS

AMERICANA OUTDOORS INC.
#2 INDUSTRIAL DRIVE - SALEM, IL 62881
(800) 851-0865 - www.americana.com

TITLE	20'x30' DOUBLE TIER NAVAJO SHELTER		
SIZE A	DATE	DWG NO	REV
SCALE: AS NOTED	DRAWN	SHEET 2 OF 2	

11 D-1.1



AMERICANA OUTDOORS

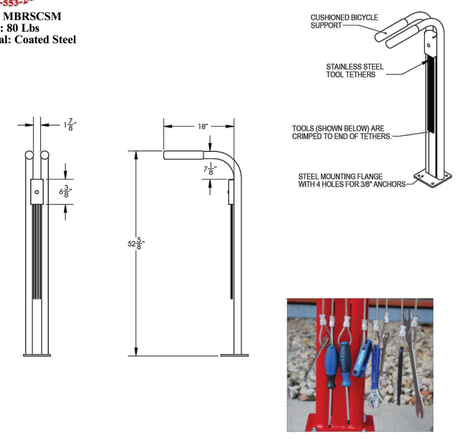
AMERICANA OUTDOORS INC.
#2 INDUSTRIAL DRIVE - SALEM, IL 62881
(800) 851-0865 - www.americana.com

TITLE	7' x 16' SHAWNEE SHELTER		
SIZE A	DATE	DWG NO	REV
SCALE: AS NOTED	DRAWN	SHEET 2 OF 2	

12 D-1.1

MADRAX DIVISION
GRABER MANUFACTURING, INC.
1080 UNIEK DRIVE
WAUNAKEE, WI 53597
P(800) 448-7931, P(608) 849-1080, F(608) 849-1081
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM

Model: MBRSCSM
Weight: 80 Lbs
Material: Coated Steel



PRODUCT: BRS-NP
DESCRIPTION: RepairSTAN' TM, BICYCLE REPAIR STAND, WITH REPAIR TOOLS

DATE: 10-5-16
ENG: SMC

INCLUDED TOOL LIST:
1. PHILIPS SCREWDRIVER
2. STRAIGHT SCREWDRIVER
3. 2.5, 3, 4, 5, 6, 8MM ALLEN WRENCHES
4. HEADSET WRENCH
5. PEDAL WRENCH
6. 8, 9, 10, 11MM OPEN WRENCHES
7. TIRE LEVER (1)
8. ADJUSTABLE WRENCH

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR (FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

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13 D-1.1

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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

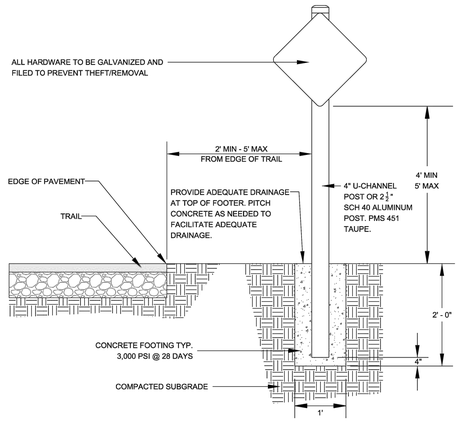
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
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RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
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D-1.1

202 OF 230

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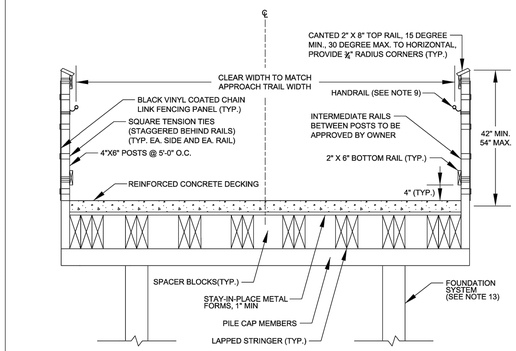


14 D-1.2

TYPICAL TRAIL SIGN INSTALLATION

NOTE:
1. SMALLER SCALE SIGNS OR PLAQUES MAY BE USED FOR GREENWAY TRAIL APPLICATIONS.

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 12/2022	NOT TO SCALE
	TYPICAL TRAIL SIGN INSTALLATION	
	GW-40.01	

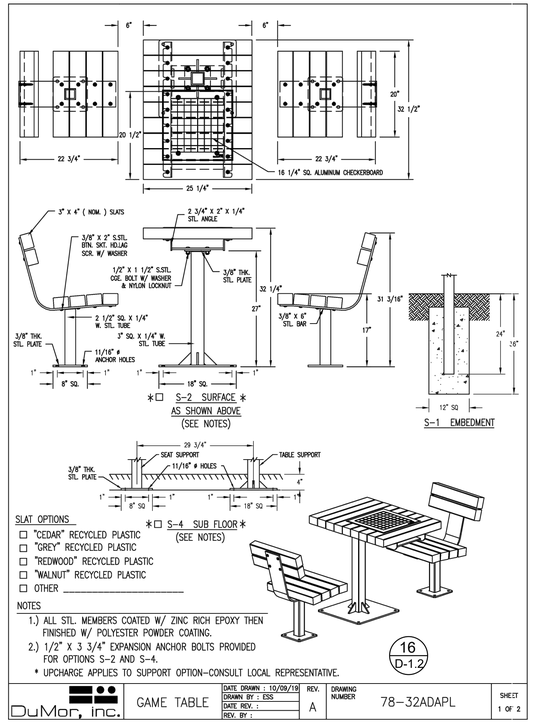


15 D-1.2

TYPICAL BOARDWALK SECTION

NOTES:
1. BOARDWALK DECK IS TO BE CAST-IN-PLACE REINFORCED CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. THE REINFORCING STEEL IN THE CAST-IN-PLACE CONCRETE BOARDWALK DECK SHALL BE EPOXY COATED GRADE 60.
3. CONCRETE DECKING CROSS SLOPE SHALL MATCH CROSS SLOPE OF TRAIL ON BOTH APPROACHES TO FACILITATE POSITIVE DRAINAGE AND PREVENT PONDING.
4. STAY-IN-PLACE METAL FORMS SHALL BE PROVIDED TO FACILITATE REINFORCED CONCRETE DECK CONSTRUCTION.
5. STAY-IN-PLACE METAL FORMS SHALL BE ATTACHED TO LONGITUDINAL TIMBER JOISTS USING AN APPROVED METHOD. ALL SCREWS AND OTHER HARDWARE USED SHALL BE GALVANIZED.
6. ALL OTHER HARDWARE (NUTS, WASHERS, BOLTS, ETC.) SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
7. TOP RAIL AND OTHER CONNECTIONS SHALL BE MADE WITH WOOD SCREW; NAILED CONNECTIONS WILL NOT BE ACCEPTABLE.
8. THE MINIMUM HEIGHT OF BRIDGE/BOARDWALK RAILING SHALL BE 42", UNLESS OTHERWISE NOTED. THE HEIGHT CAN RANGE BETWEEN 42", 48", OR 54".
9. A GRIP-ABLE, ROUND RAIL THAT WILL ACT AS BOTH A RUB RAIL AND HANDRAIL SHALL ONLY BE REQUIRED WHEN GRADES ARE GREATER THAN 5%. REFER TO DETAIL GW-30.04 FOR BRIDGE OR BOARDWALK RUB RAIL/HANDRAIL ATTACHMENT.
10. BLACK VINYL COATED CHAIN LINK FENCE AND TENSION TIES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
11. ALL TIMBER BOARDWALK COMPONENTS AND REINFORCED CONCRETE DECK SHALL DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AASHTO LRFD GUIDE SPECIFICATIONS FOR PEDESTRIAN BRIDGES.
12. SPAN LENGTHS, JOIST SPACING, SIZING OF MEMBERS, REINFORCED CONCRETE DECK, AND OTHER DESIGN SPECIFICS SHALL BE DETERMINED BY THE ENGINEER ON A PROJECT SPECIFIC BASIS.
13. FOUNDATION SHALL CONSIST OF DRIVEN PILES, AUGURED PILES, HELICAL PIERS, OR OTHER APPLIED FOUNDATION SYSTEM. SPECIFICS SUCH AS NUMBER OF PILES, SPACING, AND HEIGHT SHALL BE DETERMINED BY ENGINEER ON A PROJECT SPECIFIC BASIS BASED ON REQUIRED LOADING.

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 12/2022	NOT TO SCALE
	TYPICAL BOARDWALK SECTION	
	GW-30.01	



SLAT OPTIONS
- ☐ "CEDAR" RECYCLED PLASTIC
- ☐ "GREY" RECYCLED PLASTIC
- ☐ "REDWOOD" RECYCLED PLASTIC
- ☐ "WALNUT" RECYCLED PLASTIC
- ☐ OTHER _____

NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR OPTIONS S-2 AND S-4.
* UPCHARGE APPLIES TO SUPPORT OPTION-CONSULT LOCAL REPRESENTATIVE.

16 D-1.2

DuMor, Inc.	GAME TABLE	DATE DRAWN : 10/09/19	REV.	DRAWING NUMBER	78-32ADAPL	SHEET
		DRAWN BY : ESS	A			1 OF 2
		DATE REV. :				
		REV. BY :				

NOTES:
1.) DURING ASSEMBLY PROCEDURE; DO NOT COMPLETELY TIGHTEN HARDWARE.
2.) THE ACTUAL PARTS WILL NOT BE NUMBERED. NUMBERS ONLY APPLY TO DRAWING.
3.) UPON COMPLETION OF ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE.
4.) MOUNT AND ANCHOR AS SPECIFIED.

TOOLS REQ'D
3/4" WRENCH
1/4" ALLEN WRENCH
1/2" MASONRY DRILL BIT
DRILL

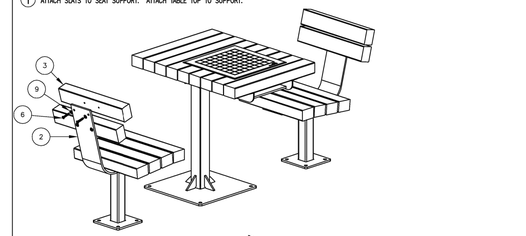
PARTS LIST FOR S-2

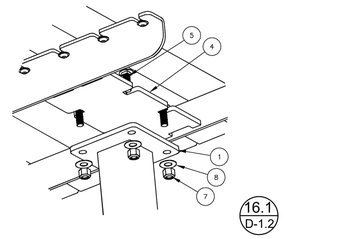
ITEM	QTY.	PART NO	DESCRIPTION
1	1	0-78-00-01ADA/2	TABLE SUPPORT FOR SURFACE MOUNT, ADA
2	2	0-78-00-02/S-2	SEAT SUPPORT FOR SURFACE MOUNT
3	12	0-78-00PL-04	3" X 4" X 20" SLAT, PLASTIC
4	1	0-78-30ADAPL	TABLE TOP ASSEMBLY W/ CHECKERBOARD, PLASTIC
5	4	1-11-042	1/2" X 1 1/2" SS CGE BOLT
6	24	1-13-016	3/8" X 2" SS BTN SKT HD LAG SCR
7	4	1-20-015	1/2" SS NYLON LOCKNUT
8	4	1-22-015	1/2" SS FLAT WASHER
9	24	1-22-024	3/8" SS FLAT WASHER

KITS PROVIDED FOR S-2

ITEM	QTY	PART NO	DESCRIPTION
10	3	K-ANCOB60-4	1/2" X 3 3/4" SS ANCHOR KIT (4PC)
11	1	K-BLO632-24	3/8" LAG HARDWARE KIT (24PC)
12	1	K-CGOB24-4L	1/2" CGE BOLT HARDWARE KIT (4)

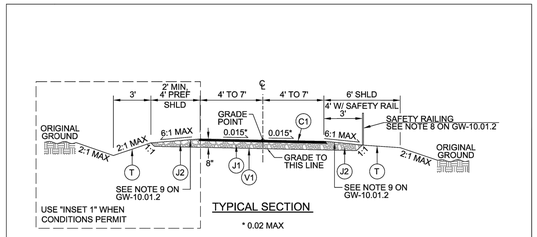
1 ATTACH SLATS TO SEAT SUPPORT. ATTACH TABLE TOP TO SUPPORT.

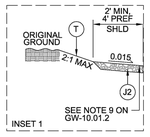




16.1 D-1.2

DuMor, Inc.	ASSEMBLY INSTRUCTIONS	DATE DRAWN : 10/09/19	REV.	DRAWING NUMBER	78-32ADAPL	SHEET
		DRAWN BY : ESS	A			2 OF 2
		DATE REV. :				
		REV. BY :				





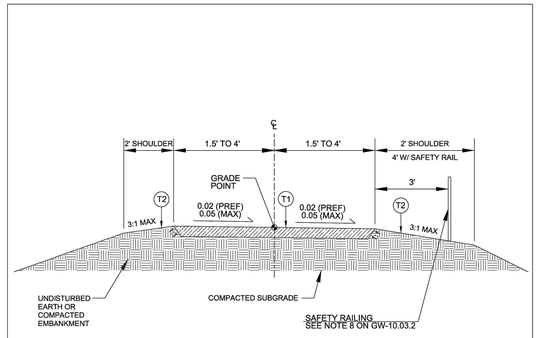
17 D-1.2

ASPHALT TYPICAL TRAIL SECTION VARIABLE WIDTH (8' MIN, 14' MAX)

PAVEMENT SCHEDULE	
C1	2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD. OR 110 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
J1	6" AGGREGATE BASE COURSE
J2	VARIABLE DEPTH AGGREGATE BASE COURSE
T	EARTH MATERIAL
V1	GEOTEXTILE FOR PAVEMENT STABILIZATION

SHEET 1 OF 2

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 12/2022	NOT TO SCALE
	ASPHALT TYPICAL TRAIL SECTION VARIABLE WIDTH (8' MIN, 14' MAX)	
	GW-10.01.1	



18 D-1.2

UNPAVED TRAIL

PAVEMENT SCHEDULE	
T1	3" COMPACTED MATERIAL (SEE NOTE 2 ON GW-10.03.2)
T2	EARTH MATERIAL

SHEET 1 OF 2

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 12/2022	NOT TO SCALE
	UNPAVED TRAIL	
	GW-10.03.1	

NOTES:
1.) DURING ASSEMBLY PROCEDURE; DO NOT COMPLETELY TIGHTEN HARDWARE.
2.) THE ACTUAL PARTS WILL NOT BE NUMBERED. NUMBERS ONLY APPLY TO DRAWING.
3.) UPON COMPLETION OF ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE.
4.) MOUNT AND ANCHOR AS SPECIFIED.

TOOLS REQ'D
3/4" WRENCH
1/4" ALLEN WRENCH
1/2" MASONRY DRILL BIT
DRILL

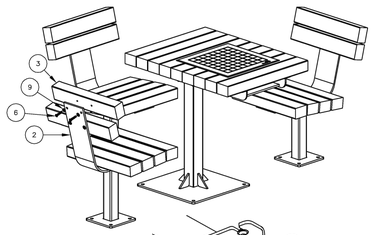
PARTS LIST FOR S-2

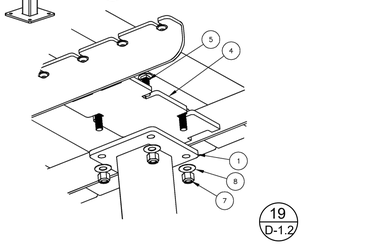
ITEM	QTY.	PART NO	DESCRIPTION
1	1	0-78-00-01ADA/2	TABLE SUPPORT FOR SURFACE MOUNT, ADA
2	3	0-78-00-02/S-2	SEAT SUPPORT FOR SURFACE MOUNT
3	18	0-78-00PL-04	3" X 4" X 20" SLAT, PLASTIC
4	1	0-78-30ADAPL	TABLE TOP ASSEMBLY W/ CHECKERBOARD, PLASTIC
5	4	1-11-042	1/2" X 1 1/2" SS CGE BOLT
6	36	1-13-016	3/8" X 2" SS BTN SKT HD LAG SCR
7	4	1-20-015	1/2" SS NYLON LOCKNUT
8	4	1-22-015	1/2" SS FLAT WASHER
9	36	1-22-024	3/8" SS FLAT WASHER

KITS PROVIDED FOR S-2

ITEM	QTY	PART NO	DESCRIPTION
10	4	K-ANCOB60-4	1/2" X 3 3/4" SS ANCHOR KIT (4PC)
11	2	K-BLO632-18	3/8" LAG HARDWARE KIT (18PC)
12	1	K-CGOB24-4L	1/2" CGE BOLT HARDWARE KIT (4)

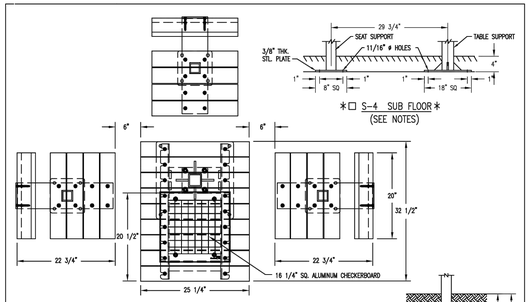
1 ATTACH SLATS TO SEAT SUPPORT. ATTACH TABLE TOP TO SUPPORT.





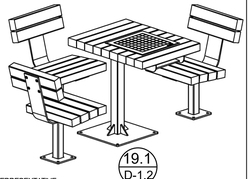
19 D-1.2

DuMor, Inc.	ASSEMBLY INSTRUCTIONS	DATE DRAWN : 10/08/19	REV.	DRAWING NUMBER	78-33ADAPL	SHEET
		DRAWN BY : ESS	A			2 OF 2
		DATE REV. :				
		REV. BY :				



SLAT OPTIONS
- ☐ "CEDAR" RECYCLED PLASTIC
- ☐ "GREY" RECYCLED PLASTIC
- ☐ "REDWOOD" RECYCLED PLASTIC
- ☐ "WALNUT" RECYCLED PLASTIC
- ☐ OTHER _____

NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR OPTIONS S-2 AND S-4.
* UPCHARGE APPLIES TO SUPPORT OPTION-CONSULT LOCAL REPRESENTATIVE.



19.1 D-1.2

DuMor, Inc.	GAME TABLE	DATE DRAWN : 10/08/19	REV.	DRAWING NUMBER	78-33ADAPL	SHEET
		DRAWN BY : ESS	A			1 OF 2
		DATE REV. :				
		REV. BY :				

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT PSP-23-03	NOT FOR CONSTRUCTION	SCALE AS SHOWN	DESIGNED BY SRG	DRAWN BY SRG	CHECKED BY SRG

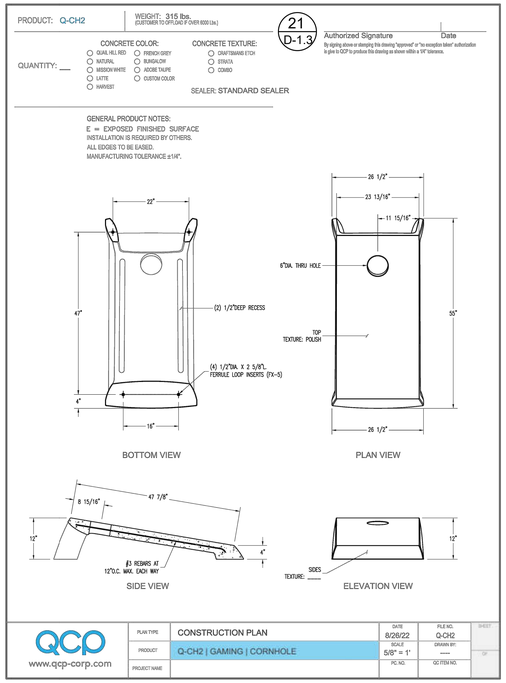
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

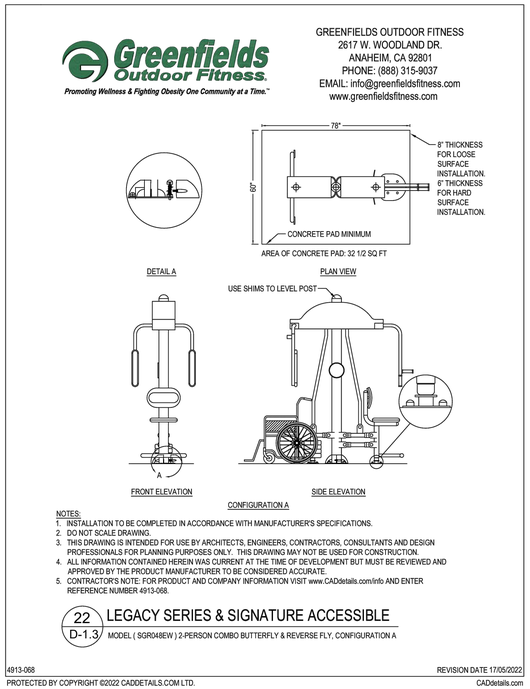
AMENITIES DETAILS

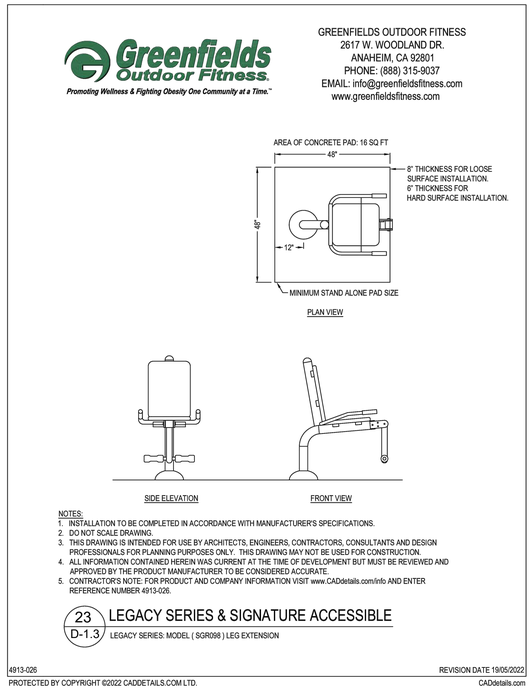
DRAWING SHEET
D-1.2

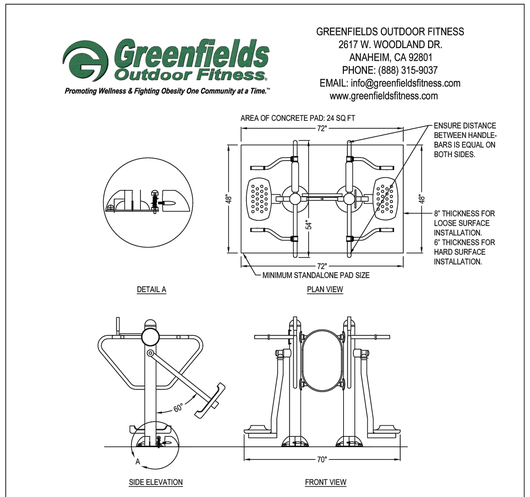
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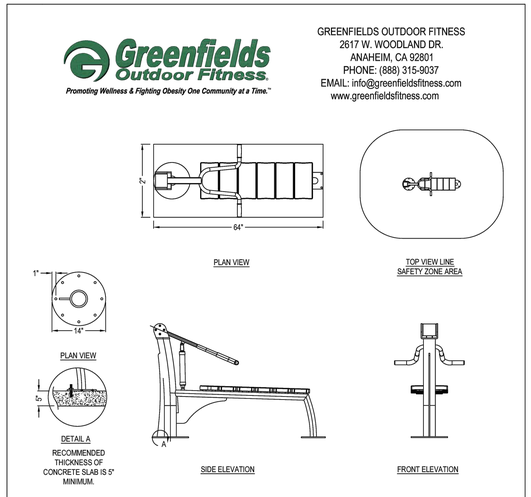


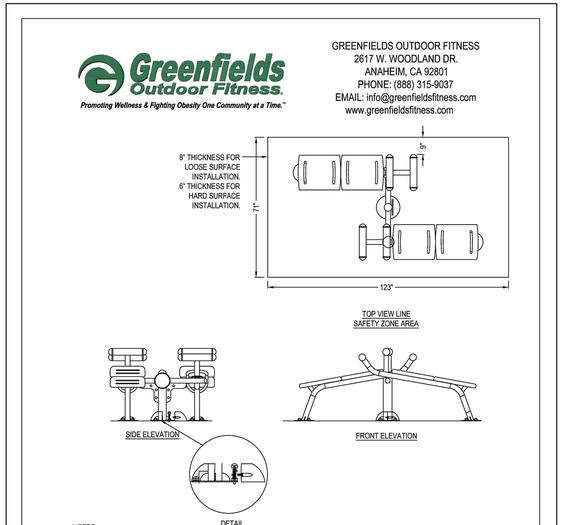


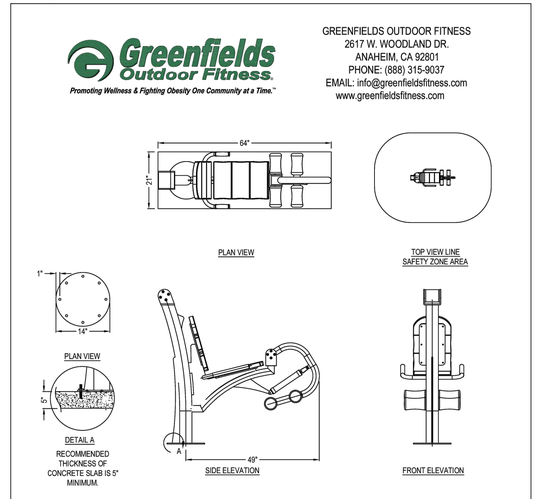












No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONG ROCK PROJECT PSP-23-03 | NOT FOR CONSTRUCTION | SCALE: AS SHOWN | DESIGNED BY: SRG | DRAWN BY: SRG | CHECKED BY: SRG

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ENGINEERING GROUP
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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

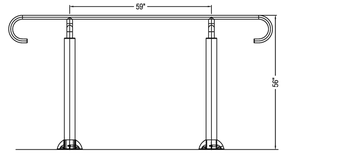
AMENITIES DETAILS

DRAWING SHEET
D-1.3

204 OF 230

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GREENFIELDS OUTDOOR FITNESS
2617 W. WOODLAND DR.
ANAHEIM, CA 92801
PHONE: (888) 315-9037
EMAIL: info@greenfieldsfitness.com
www.greenfieldsfitness.com



NOTES:
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2. DO NOT SCALE DRAWING.
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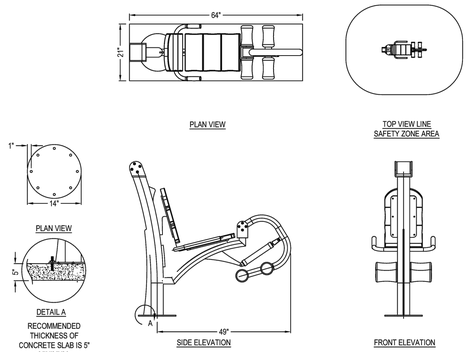
28 D-1.4 **FUNCTIONAL FITNESS**

MODEL (SGR043) PARALLEL BARS

4913-071 REVISION DATE 17/05/2022

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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4913-049.

29 D-1.4 **PROFESSIONAL SERIES**

MODEL (UBX298) LEG EXTENSION & CURL (ADJUSTABLE RESISTANCE)

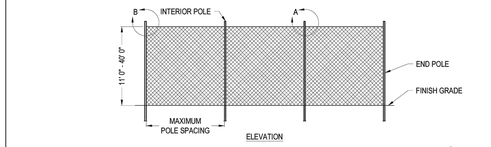
4913-049 REVISION DATE 19/05/2022

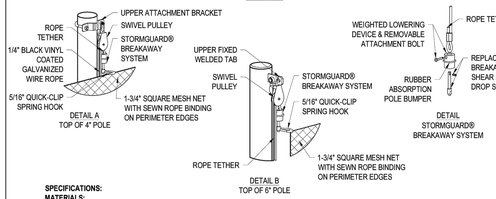
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41155 STATE HIGHWAY 10
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☑ SELECT DESIRED POLE SPACING:
☐ 20'
☐ 25'

☑ SELECT DESIRED NETTING:
☐ #36 KNOTTED BLACK NYLON
☐ ULTRA CROSS® KNOTLESS DYNEEMA®





SPECIFICATIONS:
MATERIALS:
POLES: BLACK SUPER DURABLE POWDER COATED ALUMINUM OR STEEL POLES
- 12' TO 40' HEIGHTS COMMONLY USED FOR MULTI-SPORT APPLICATIONS
- PROFESSIONALLY PRE-ENGINEERED TO MEET ASCE 7-10 WIND RATING UP TO 105 MPH

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5455-023.

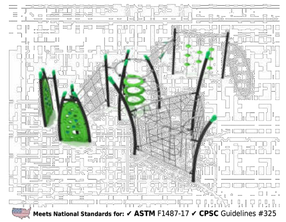
30 D-1.4 **NETTING SYSTEMS**

MULTI-SPORT NETTING: STORMGUARD BREAKAWAY BALL SAFETY SYSTEM NETTING

5455-023 REVISION DATE 01/03/2022

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Twin Falls



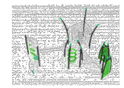
Meets National Standards for: ✓ **ASTM** F1487-17 ✓ **CPSC** Guidelines #325

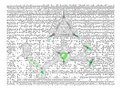
Product Description
Twin Falls is the ultimate climbing playground structure designed for endless hours of fun and adventure! With various climbing elements including net climbers, ladders, bridges, rock wall panels, and floating tunnels, children can explore and conquer their fears while developing their physical skills.
Twin Falls is designed with safety and durability in mind, constructed with high-quality materials that are built to last. The structure's engaging design, vibrant colors, and unique features like the floating tunnels will capture the imagination of children of all ages, encouraging them to spend more time outside and engage in physical activity.
Twin Falls is the perfect addition to any outdoor play area, like parks, schools, or community centers. It offers a challenging and exciting way for kids to develop their physical skills and build their confidence in a safe and supervised environment. Give your children the opportunity to discover the joys of outdoor play with the exciting and dynamic Twin Falls playground structure.

Product Specifications
Price: $24,456.**
Model Number: PGP031
Age Range: 5-12 years
Child Capacity: 28-36
Fall Height: 96"
Post Diameter: 4.5-inch
Product Type: Get Physical
Safety Zone: 40' 3" x 38' 9"

✓ **ADA Compliant**

Elevated	10 components
Ground Level	0 components





31 D-1.4

Monterey



Meets National Standards for: ✓ **ASTM** F1487-17 ✓ **CPSC** Guidelines #325

Product Description
The Monterey play system is an awesome land of fun with excitement around every corner. It has a series of four-foot tall deck platforms which splits into an arched Sea Creature Climber with adorable ocean shapes, and an exciting Wave Slide. This way, kids will have quick routes to get up or down from that side of the structure. The sides of the other four-foot platforms are lined with fun activities, including a Ship's Wheel, Gear Panel, and Vertical PE Rock Climbing Wall. There is also a place where the deck diverges and leads up to a 66-inch platform. Here, they will find a humongous Spiral Slide that spins children around a full 360 degrees as they twirl towards the ground. This slide is sure to be the focal point of playgrounds everywhere. There is even an extension on the ground level with a Drum Panel and Car Panel.

Product Specifications
Price: $19,890.**
Model Number: PKP158
Age Range: 2-12 years
Child Capacity: 27-32
Fall Height: 66"
Post Diameter: 3.5-inch
Product Type: Spark
Safety Zone: 25' x 29' 7"

✓ **ADA Compliant**

Elevated	6 components
Ground Level	2 components

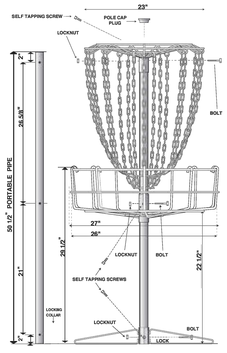




32 D-1.4

DGA MACH 2™ PERMANENT DISC GOLF BASKET SPECIFICATION SHEET

The Mach II Permanent Disc Pole Hole disc golf basket is an excellent portable target for home, schools, colleges or any recreational setting. With the inground installation kit the Mach II is also perfect for entry level disc golf courses.



PORTABLE BASE - 3/8" steel rod, welded and hot-dipped galvanized. 6" Sleeve, bolt, nylon insert locknut and hex head tec screw.

PORTABLE BASE ASSEMBLY INSTRUCTIONS - Place the base on level ground and insert the short pole into the base with the swedged end facing up. Line up the pole's three bottom bolt holes with the three bolt holes on the base. Push a long bolt through both the base and pole bolt holes and tighten with a locking nut.

POLE (50 1/2" total length) - Two 1 1/2" I.D., 1 15/16" O.D. hot-dipped galvanized pipe, drilled. One long pole with cap, one swedged short pole

POLES - The short pole fits into the base with the swedged end facing up. The longer pole with the cap side up fits onto the short pole's swedged end. The bolt holes on both poles line up and attach with the basket.

TRAPPER BASKET ASSEMBLY - 3/8" steel rod, welded and hot-dipped galvanized. 6" Sleeve, bolt, hex head nut, nylon insert locknut and hex head tec screw.

TRAPPER BASKET ASSEMBLY INSTRUCTIONS - Lift the trapper basket up onto the top of the pole. Slide the trapper basket down past the middle of the pole and line up the three trapper basket bolt holes with the holes on the poles. Push a long bolt through the trapper basket and the pole's bolt holes. Tighten the long bolt with a locking nut.

CHAIN ASSEMBLY - Welded and hot-dipped galvanized. 12 outer sliding links and chains, 6 inner pipe protectors and chains. All 18 chains assembled with heavy duty "S" hooks to allow freer movement of chains. 6" Sleeve , bolt, hex head nut, nylon insert locknut and hex head tec screw. Rod Assembly - 3/8". steel rod.

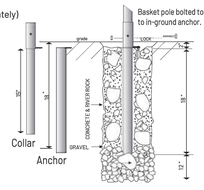
CHAIN ASSEMBLY INSTRUCTIONS - Slide Chain Assembly, (ring first), down pole. Align holes in collar with holes at top of pole. Fasten with bolt and nylon insert locknut

IN-GROUND INSTALLATION KIT (Sold Separately)

With the locking tab towards top of collar align holes in locking collar with holes in pole and fasten with bolt, head nut and nylon insert locknut.

Once fastened, the pole can be placed and locked in anchor.

*Note: The LOCKING TAB should always be pointing at the tee.



DGA FIRST IN DISC GOLF

33 D-1.4 **DGA | The Founding Company of Disc Golf**
DiscGolf.com 831-722-6037

DGA MACH 2™ PERMANENT DISC GOLF BASKET ASSEMBLY INSTRUCTIONS

Box includes: 1 base, 1 trapper basket, 1 chain holder, 1 long pole with cap, 1 swedged short pole, 3 long bolts (11mm), 3 locking nuts (11mm), 3 short bolts (10mm) and 1 focal point sticker. You will need 10mm and 11mm wrenches or ratchets to tighten the bolts.

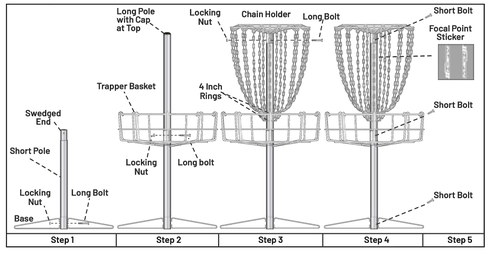
1) Remove all parts from inside the box. Place the base on level ground and insert the short pole into the base with the swedged end facing up. Line up the poles three bottom bolt holes with the three bolt holes on the base. Push a long bolt through both the base and pole bolt holes and tighten with a locking nut.

2) Place the longer pole with the cap side up onto the short pole's swedged end and line up the three bolt holes on both poles. Lift the trapper basket up onto the top of the pole. Slide the trapper basket down past the middle of the pole and line up the three trapper basket bolt holes with the holes on the poles. Push a long bolt through the trapper basket and the pole's bolt holes. Tighten the long bolt with a locking nut.

3) Lift the chain holder up onto the top of the pole by first feeding the two 4 inch rings that connect to the bottom of the chain strands. Line up the three bolt holes on the chain holder and the poles top three bolt holes and push a long bolt through the chain holder and pole bolt holes. Tighten the long bolt with a locking nut.

4) The base, trapper basket and chain holder each have one remaining hole for the 10mm short bolts. In each of the remaining holes insert and tighten a short bolt to prevent the base, trapper basket and chain holder from wobbling on the pole.

5) Attach the included focal point sticker so that the top of the sticker is about five inches from the top of the pole. Start with lining up one end of the sticker so it is straight up and down in line with the pole and slowly wrap the focal point sticker around the pole. The Mach 2 logo should be facing side ways on the pole.



DGA FIRST IN DISC GOLF

33.1 D-1.4 **DGA | The Founding Company of Disc Golf**
DiscGolf.com 831-722-6037

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No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

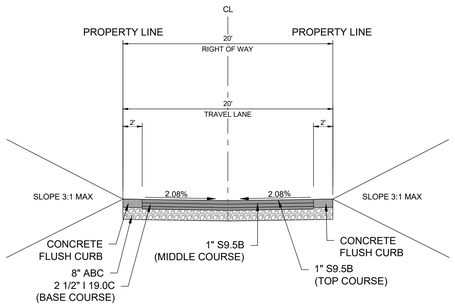
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

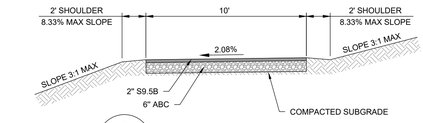
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

AMENITIES DETAILS

DRAWING SHEET
D-1.4



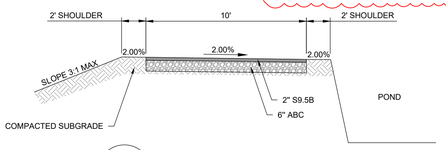
1 D-2.0 **ALLEY CROSS SECTION - 20' ROW**
SCALE: NTS



2 D-2.0 **GREENWAY CROSS SECTION**
SCALE: NTS

NOTE:
GEOTEXTILE STABILIZATION FABRIC SHALL BE PLACED UNDER THE COMPACTED ABC FOR THE ENTIRE LENGTH AND WIDTH OF THE GREENWAY

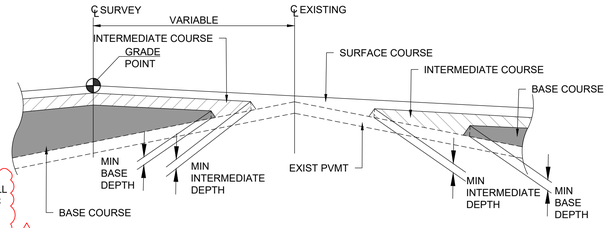
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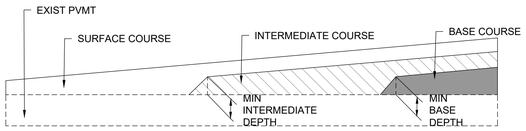
3 D-2.0 **GREENWAY CROSS SECTION - POND**
SCALE: NTS

NOTE:
GEOTEXTILE STABILIZATION FABRIC SHALL BE PLACED UNDER THE COMPACTED ABC FOR THE ENTIRE LENGTH AND WIDTH OF THE GREENWAY

5

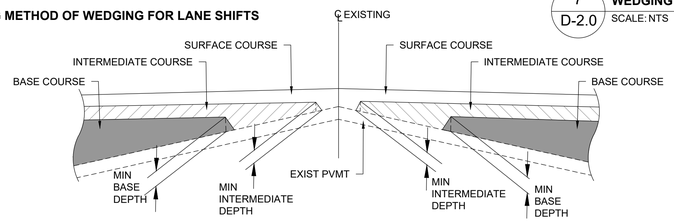


SAMPLE DETAIL SHOWING METHOD OF WEDGING FOR LANE SHIFTS

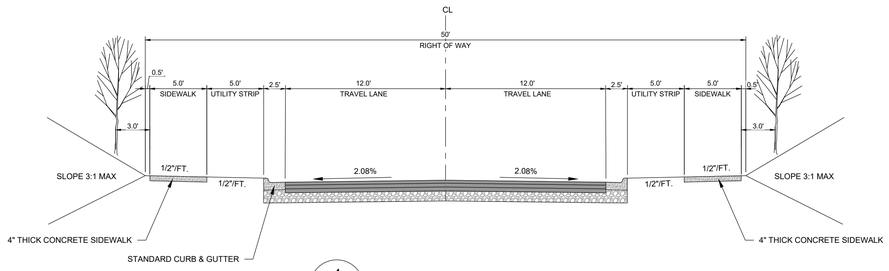


SAMPLE DETAIL WEDGING DETAIL FOR RESURFACING FOR EOP WEDGING TIE INS

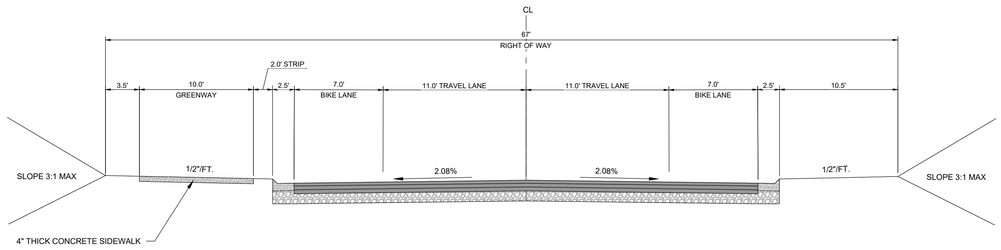
7 D-2.0 **WEDGING DETAIL**
SCALE: NTS



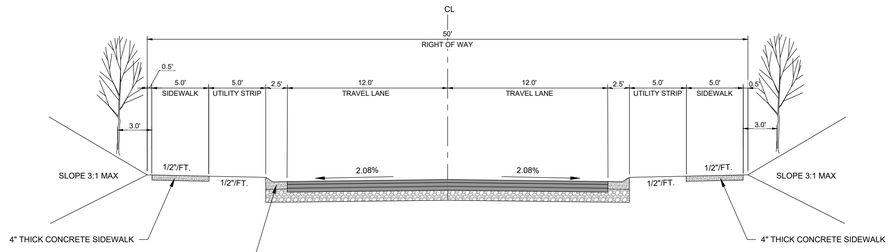
SAMPLE DETAIL SHOWING METHOD OF WEDGING FOR ROOF TOP WEDGING



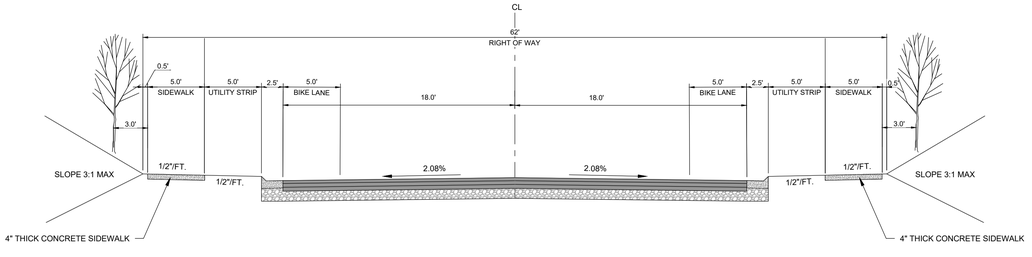
4 D-2.0 **TYPICAL CROSS SECTION - 50' ROW**
SCALE: NTS



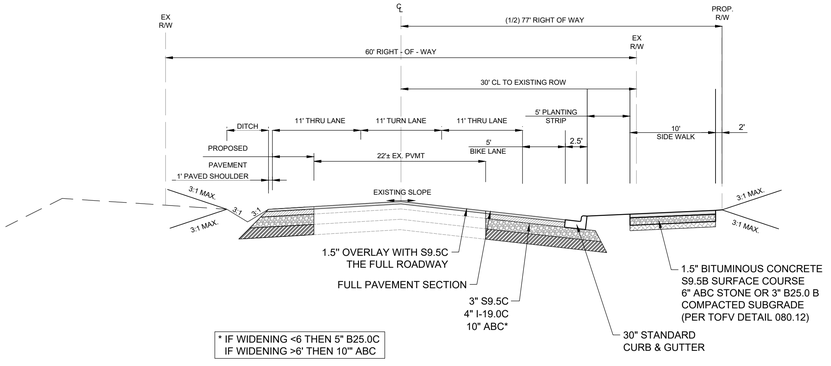
8 D-2.0 **LIGHTNING BOLT LANE BRIDGE CROSS SECTION - 67' ROW**
SCALE: NTS



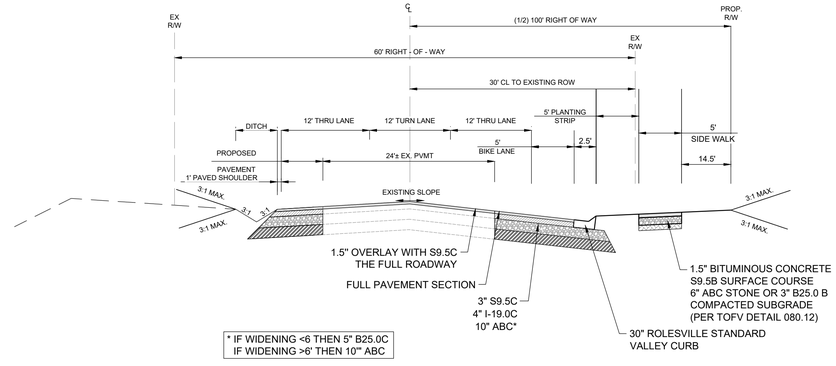
5 D-2.0 **TYPICAL CROSS SECTION - 50' ROW**
SCALE: NTS



9 D-2.0 **TYPICAL CROSS SECTION - 62' ROW**
SCALE: NTS



6 D-2.0 **JONESVILLE RD ROADWAY IMPROVEMENTS**
SCALE: NTS



10 D-2.0 **MITCHELL MILL RD ROADWAY IMPROVEMENTS**
SCALE: NTS

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SEAL:

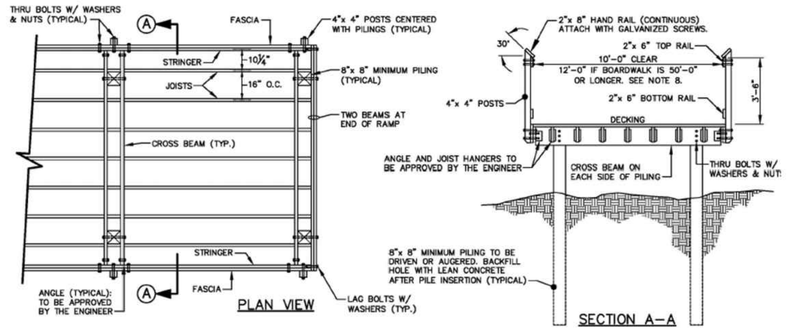
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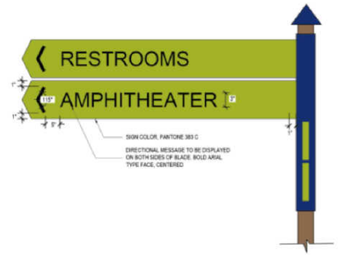
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CONSTRUCTION PLANS

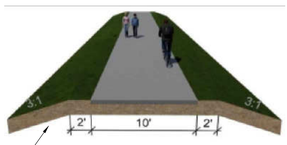
SITE DETAILS

DRAWING SHEET
D-2.0



1 / D-2.1 **TOWN OF ROLESVILLE BOARDWALK DETAIL**
SCALE: NTS





5
NOTE:
GEOTEXTILE STABILIZATION FABRIC SHALL BE PLACED UNDER THE COMPACTED ABC FOR THE ENTIRE LENGTH AND WIDTH OF THE GREENWAY

2 / D-2.1 **TYPICAL GREENWAY SECTION**
SCALE: NTS



3 / D-2.1 **GREENWAY BOARDWALK APPROACH DETAIL**
SCALE: NTS



4 / D-2.1 **TRAIL ACCESS POINT DETAIL**
SCALE: NTS



5 / D-2.1 **GREENWAY SIGNAGE DETAILS**
SCALE: NTS

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

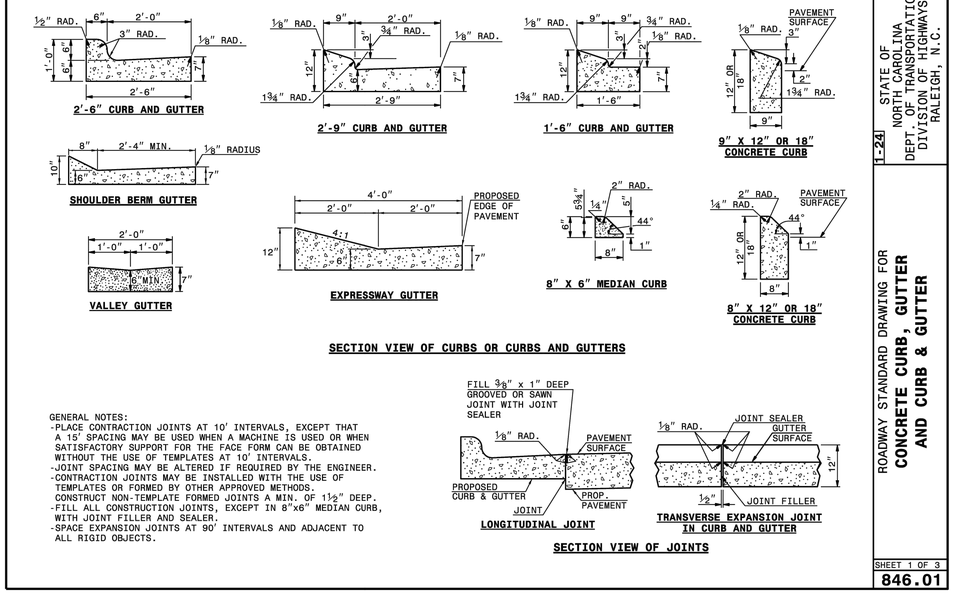
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DRAWN BY	SRG
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CONSTRUCTION PLANS
SITE DETAILS

DRAWING SHEET
D-2.1

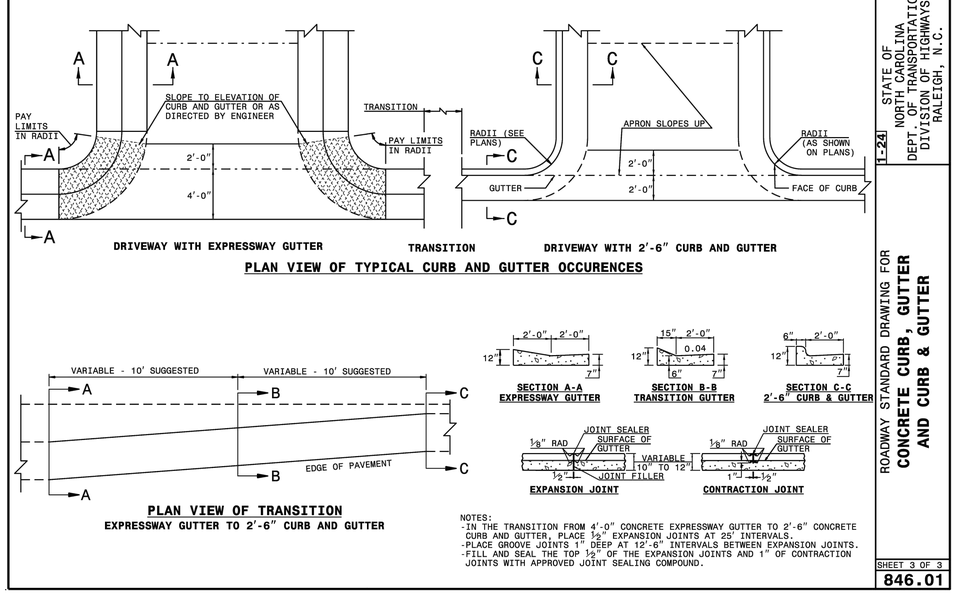


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1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE CURB, GUTTER AND CURB & GUTTER

SHEET 1 OF 3
846.01



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE CURB, GUTTER AND CURB & GUTTER

SHEET 3 OF 3
846.01

No.	REVISIONS	DATE	BY
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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

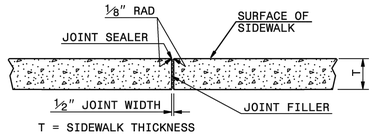
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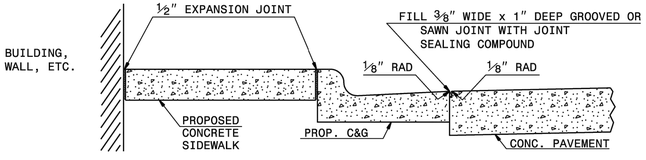
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH ⅛" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE ½" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A ½" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.05 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT IN SIDEWALK



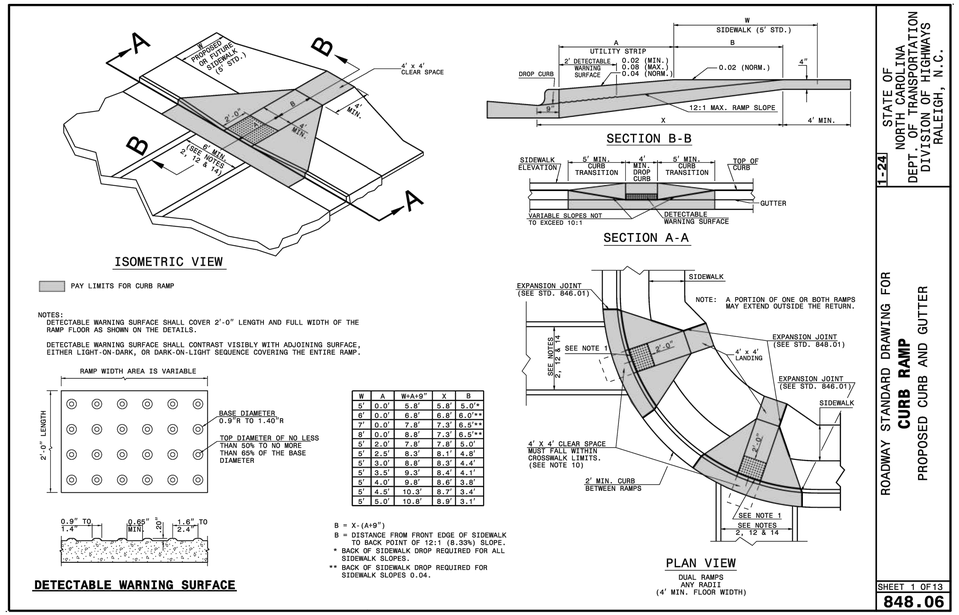
DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE SIDEWALK

SHEET 1 OF 1
848.01



W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'**
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

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1-24

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

SHEET 1 OF 13
848.06

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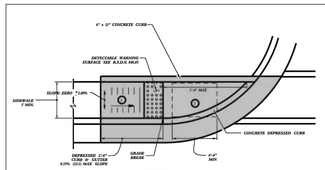
DRAWN BY SRG

CHECKED BY SRG

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CONSTRUCTION PLANS

SITE DETAILS

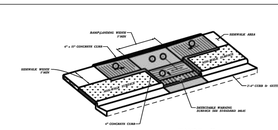
DRAWING / SHEET
D-2.2



TYPE 1

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.01 SHEET 3 OF 3 FOR ALL RAMP NOTES

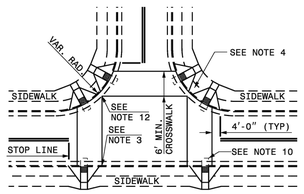
CURB RAMP DETAIL



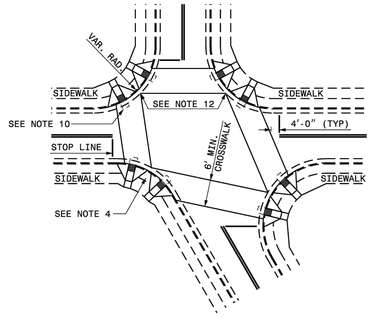
TYPE 3

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.01 SHEET 3 OF 3 FOR ALL RAMP NOTES

CURB RAMP DETAIL



DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS



DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

ROADWAY PLAN SYMBOL
CR
FOR PROPOSED CURB RAMP

PROPOSED CURB RAMP W/ CLEAR SPACE
PROPOSED OR FUTURE SIDEWALK

ALLOWABLE LOCATIONS
DUAL RAMP RADII.....ANY

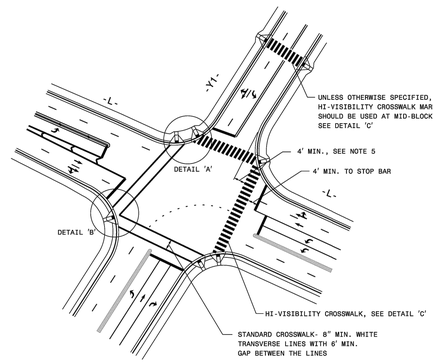
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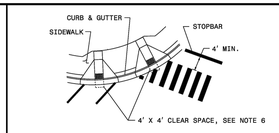
1-24

ROADWAY STANDARD DRAWING FOR
CURB RAMP
CURB RAMP LOCATION

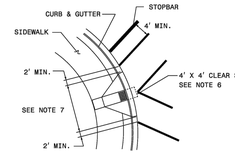
SHEET 5 OF13
848.06

CROSSWALK PLACEMENT GUIDANCE

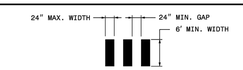




DETAIL 'A'- DUAL CURB RAMPS



DETAIL 'B'- SINGLE DIAGONAL CURB RAMP



DETAIL 'C'- HI-VISIBILITY CROSSWALK

GENERAL NOTES:

1- USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.

2- THE LOCATION AND TYPE OF CROSSWALK MARKINGS SHOWN ON THE ABOVE DETAILS ARE FOR REFERENCE ONLY. LOCATE CROSSWALK MARKINGS AS SHOWN ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER. THE CROSSWALK MARKING TYPE, STANDARD OR HI-VISIBILITY, SHALL BE INSTALLED AS SPECIFIED ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER.

3- THE STANDARD CROSSWALK IS TWO WHITE 8" MIN. TRANSVERSE LINES WITH A 6' MIN. GAP BETWEEN THE LINES. THE HI-VISIBILITY CROSSWALK IS WHITE 24" MAX. WIDE LONGITUDINAL LINES WITH 24" MIN. GAPS BETWEEN LINES, SEE DETAIL 'C'. HI-VISIBILITY CROSSWALKS SHOULD BE A MINIMUM OF 6' WIDE. CURB RAMPS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARES.

4- STOP BARS SHOULD BE PLACED A 4' MIN. IN ADVANCE OF NEAREST CROSSWALK LINE.

5- SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.

6- BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4' X 4' MIN. SHALL BE PROVIDED WITHIN THE MARKINGS.

7- SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2' MIN. LONG LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.

8- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR DETAILS OR A SPECIAL DESIGN.

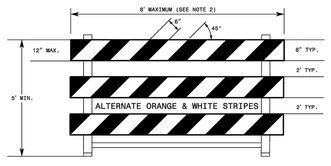
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1-24

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
PEDESTRIAN CROSSWALKS

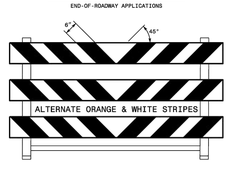
SHEET 1 OF 2
1205.07

TYPE III BARRICADE



TYPE III BARRICADE

END-OF-ROADWAY APPLICATIONS



GENERAL NOTES

1- HORIZONTAL RAILS FOR BARRICADES MAY BE CONSTRUCTED OF APPROVED COMPOSITE, HOLLOW/ CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED MATERIAL.

2- BARRICADE SHALL BE LIMITED TO A MAXIMUM LENGTH OF 8 FT UNLESS NCDOT APPROVED.

3- ONLY NCDOT APPROVED COMPOSITE AND ROLL-UP SIGNS MAY BE MOUNTED ON THE BARRICADE RAILS. MOUNT SIGNS TO BARRICADE RAILS TO ENSURE SIGN WILL NOT BECOME DETACHED UNDER NORMAL WIND AND TRAFFIC CONDITIONS.

4- SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT FROM THE GROUND TO THE BOTTOM OF THE SIGN UNLESS SIGN R11-3 IS REQUIRED BY THE PLANS OR DIRECTED BY THE ENGINEER.

5- ASSEMBLY OF THE GENERIC BARRICADES MUST BE SELF CERTIFIED BY THE ASSEMBLER.

6- BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.

7- STRIPES ON WORK ZONE BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES, SLOPED DOWNWARD TOWARDS THE SIDE WHICH TRAFFIC IS TO PASS OR TURN IN DETOURING. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES.

8- USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES.

9- ALL BARRICADES MUST BE LISTED ON THE DEPARTMENT'S APPROVED PRODUCTS LIST.

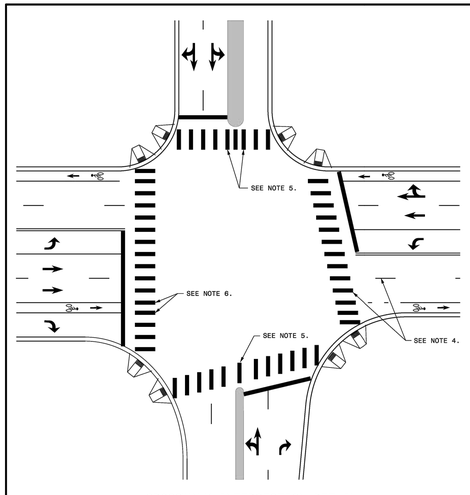
10- PLACE SANDBAGS OR OTHER APPROVED BALLASTING METHODS ON THE FEET OF THE FRAME. DO NOT PLACE SANDBAGS ON TOP OF A STRIPED RAIL OR STABILIZER BAR. DO NOT BALLAST BARRICADES BY HEAVY OBJECTS SUCH AS ROCKS, CHUNKS OF CONCRETE OR OTHER ITEMS THAT WOULD CAUSE DAMAGE IF THE BARRICADE IS STRUCK BY A VEHICLE.

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DIVISION OF HIGHWAYS
RALEIGH, N.C.

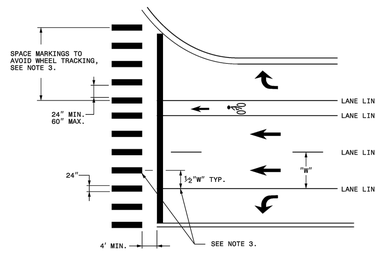
1-24

ROADWAY STANDARD DRAWING FOR
BARRICADES
TYPE-III

SHEET 1 OF 1
1145.01



CROSSWALK INTERSECTION DETAIL



CROSSWALK MARKING DETAIL

GENERAL NOTES:

1- THE GUIDANCE IN THIS DETAIL IS TO BE USED WHEN NO-TRACK SPACING OF HI-VISIBILITY MARKINGS IS REQUESTED.

2- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH PAVEMENT MARKING GUIDANCE SHOWN ON ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.07.

3- PLACE MARKINGS TO AVOID WHEELPATH OF VEHICLES. MARKINGS TYPICALLY WILL BE LOCATED CENTERED AT THE LANE LINES AND EDGE LINES WITH ONE ADDITIONAL MARKING CENTERED IN THE MIDDLE OF THE LANE. AT WIDE LANE WIDTHS DUE TO TAPERS AND LARGE RADII, LOCATE MARKINGS AT BEST SPACING TO AVOID WHEEL TRACKING. THE SPACE BETWEEN MARKINGS SHALL NOT BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.

4- WHERE THE CROSSWALK IS SKEWED TO THE LANE LINES, THE MARKINGS SHOULD BE PARALLEL TO THE LANE LINES.

5- PLACE MARKINGS ON BOTH EDGES OF THE NOSE OF A MEDIAN. FOR NARROW MEDIANS LESS THAN 4 FEET, A SINGLE MARKING MAY BE USED. FOR WIDE MEDIANS, INSTALL ADDITIONAL MARKINGS IN THE MEDIAN AREA. THE SPACE BETWEEN THE MARKINGS SHALL NOT TO BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.

6- LOCATE MARKINGS CENTERED ON BICYCLE LANE LINES. MARKINGS SHALL NOT BE LOCATED IN THE CENTER OF THE BICYCLE PATH.

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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
HI-VISIBILITY CROSSWALKS
NO-TRACK MARKING GUIDANCE

SHEET 2 OF 2
1205.07

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04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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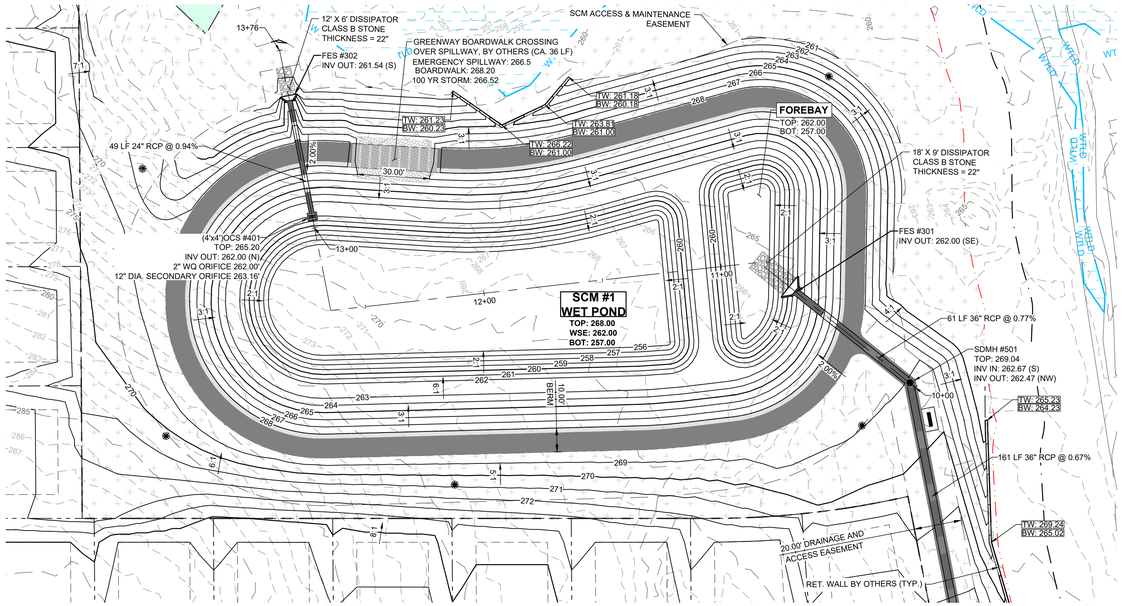
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	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

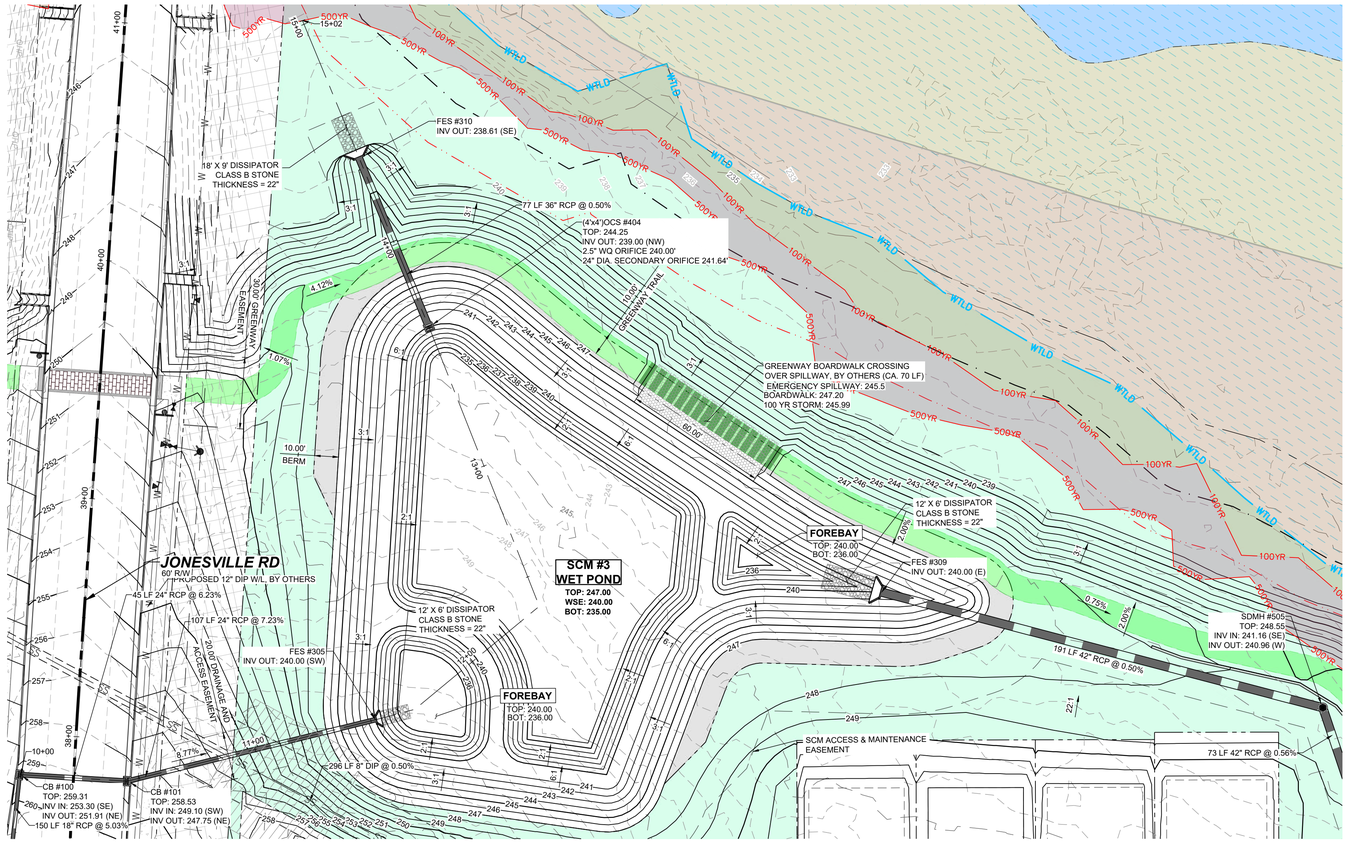
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

SITE DETAILS

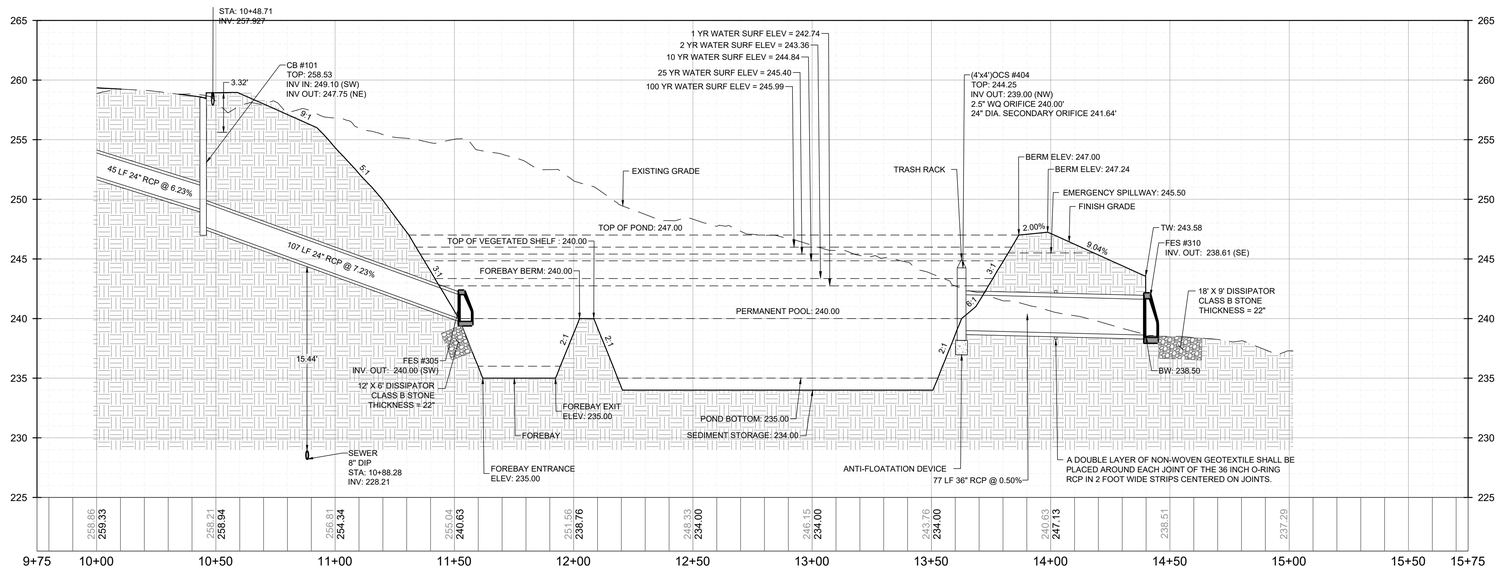
DRAWING
SHEET

D-2.3


12' X 6' DISSIPATOR
CLASS B STONE
THICKNESS = 22"
FES #302
INV OUT: 261.54 (S)
GREENWAY BOARDWALK CROSSING
OVER SPILLWAY, BY OTHERS (CA. 36 LF)
EMERGENCY SPILLWAY: 266.5
BOARDWALK: 268.20
100 YR STORM: 266.52
SCM ACCESS & MAINTENANCE
EASEMENT
TW: 261.18
BW: 260.18
TW: 261.23
BW: 260.23
TW: 263.81
BW: 263.00
TW: 265.90
BW: 263.00
FOREBAY
TOP: 262.00
BOT: 257.00
18' X 9' DISSIPATOR
CLASS B STONE
THICKNESS = 22"
49 LF 24" RCP @ 0.94%
30.00'
(4'x4')OCS #401
TOP: 265.20
INV OUT: 262.00 (N)
2" WQ ORIFICE 262.00'
12" DIA. SECONDARY ORIFICE 263.16'
FES #301
INV OUT: 262.00 (SE)
SCM #1
WET POND
TOP: 268.00
WSE: 262.00
BOT: 257.00
61 LF 36" RCP @ 0.77%
SDMH #501
TOP: 269.04
INV IN: 262.67 (S)
INV OUT: 262.47 (NW)
TW: 265.23
BW: 264.23
161 LF 36" RCP @ 0.67%
TW: 269.24
BW: 265.02
20.00' DRAINAGE AND
ACCESS EASEMENT
RET. WALL BY OTHERS (TYP.)
WETLAND
WETLAND
WETLAND



SCM #3 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'

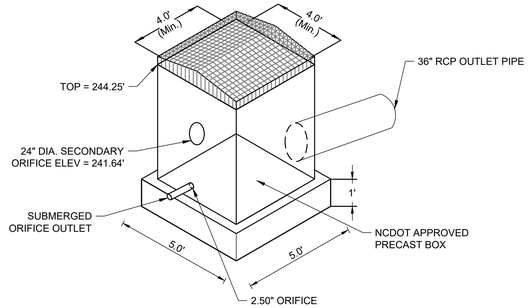


SCM #3 (WETPOND) - PROFILE
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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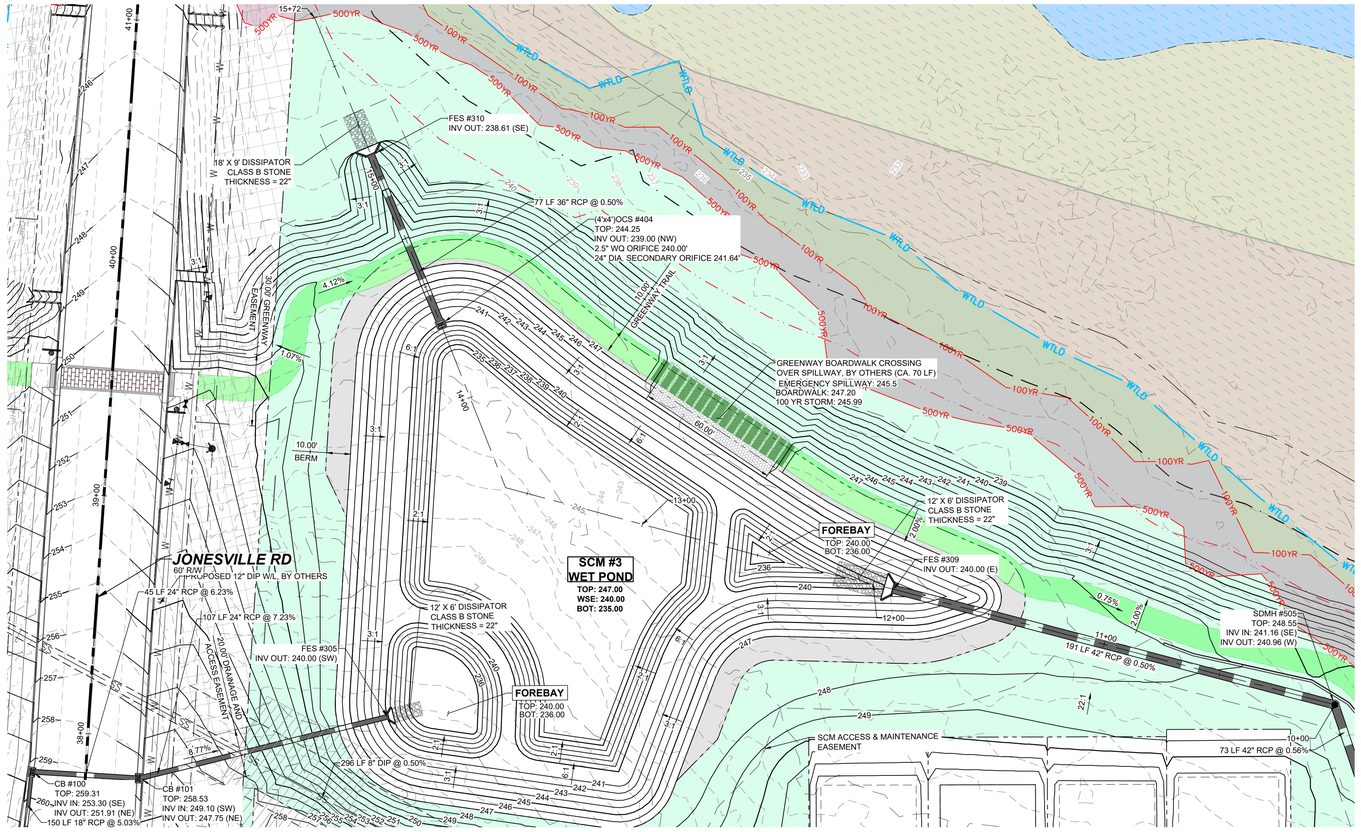
STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
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CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '3'

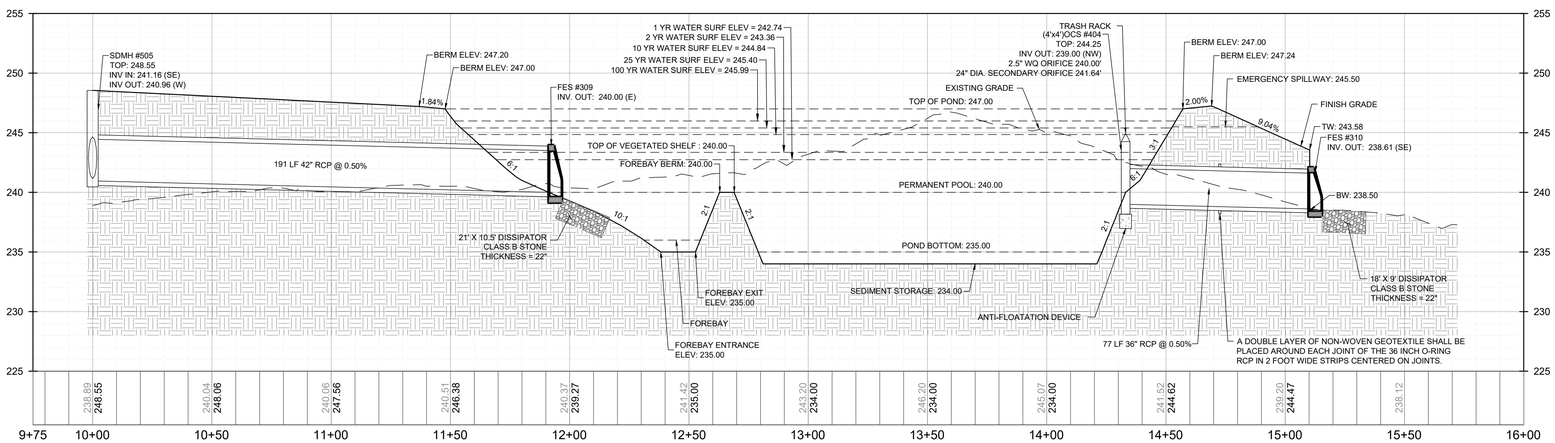
DRAWING SHEET
D-3.1

211 OF 230

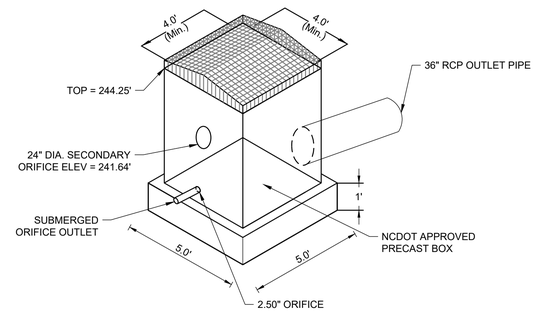
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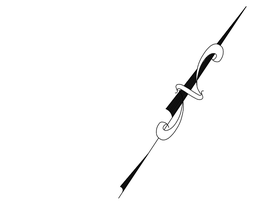
SCM #3 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'



SCM #3 (WETPOND) - PROFILE
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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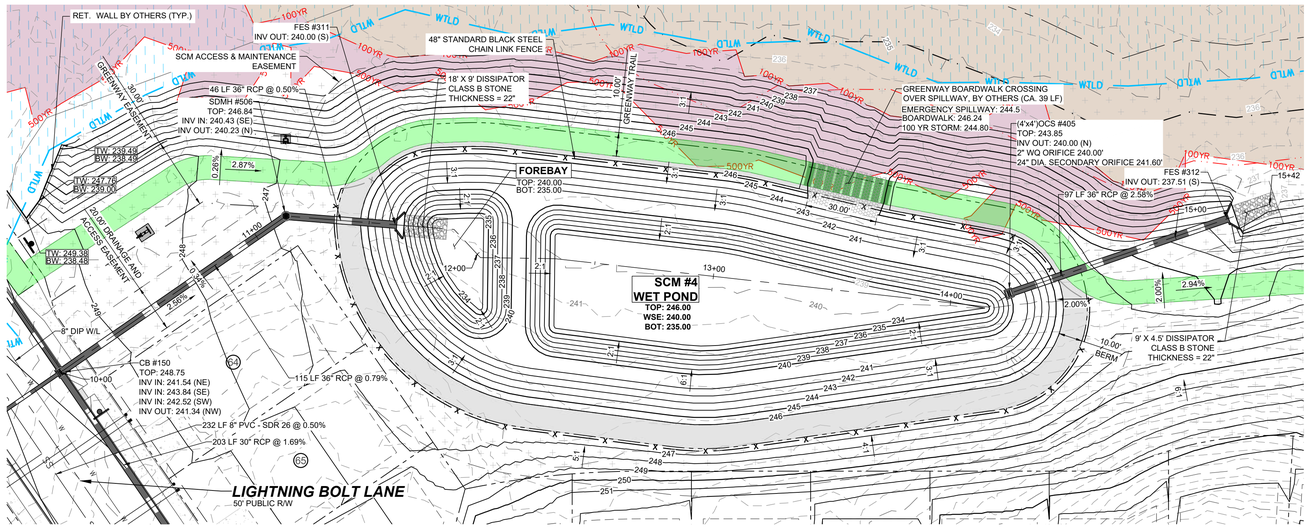
STRONG ROCK PROJECT	PSP-23-03
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

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CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '3'

DRAWING
SHEET
D-3.2

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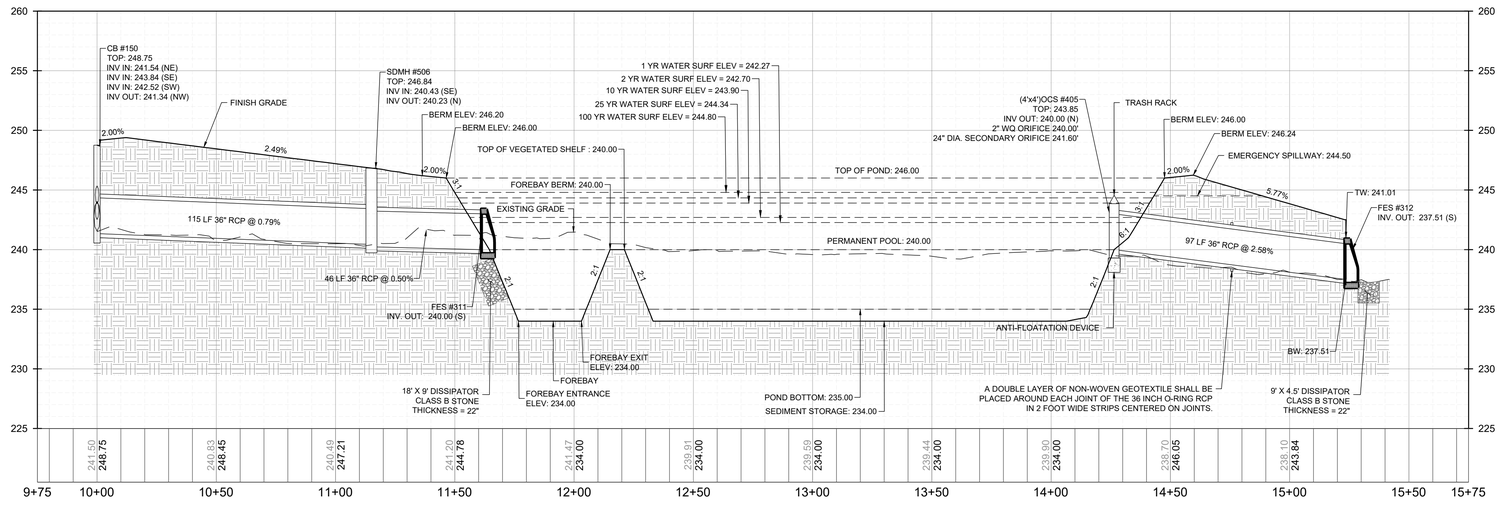


SCM #4 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'

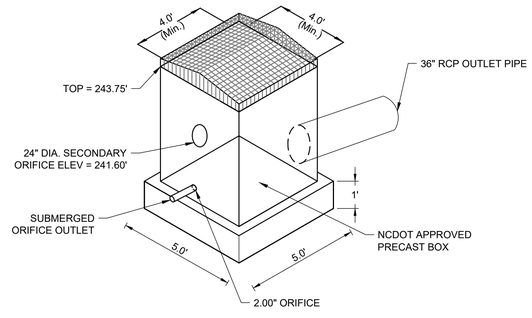
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



SCM #4 (WETPOND) - PROFILE
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

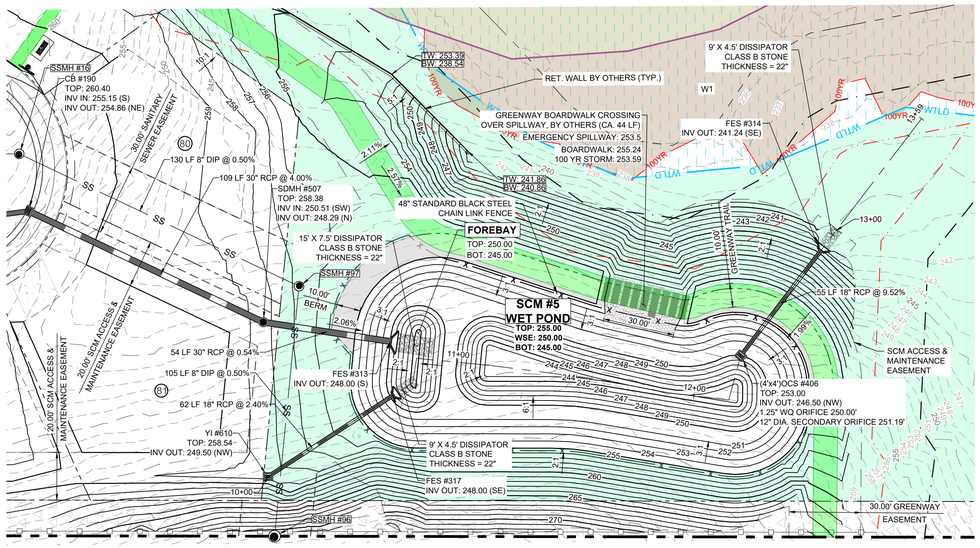
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SCALE	AS SHOWN
DESIGNED BY	SRG
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TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '4'

DRAWING SHEET
D-3.3

213 OF 230

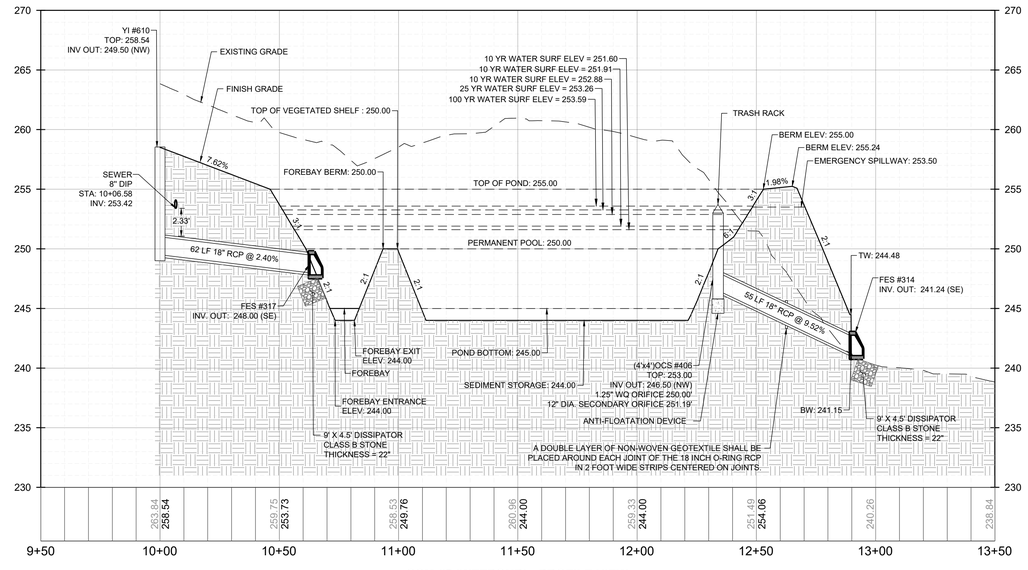


SCM #5 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'

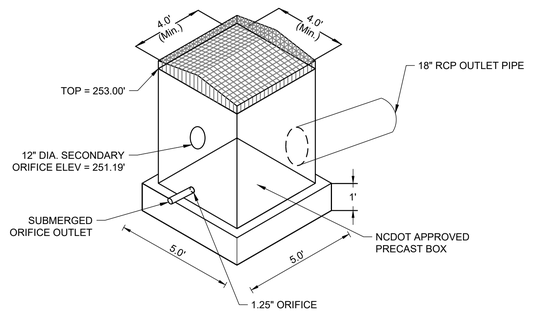
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



SCM #5 (WETPOND) - PROFILE VIEW
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

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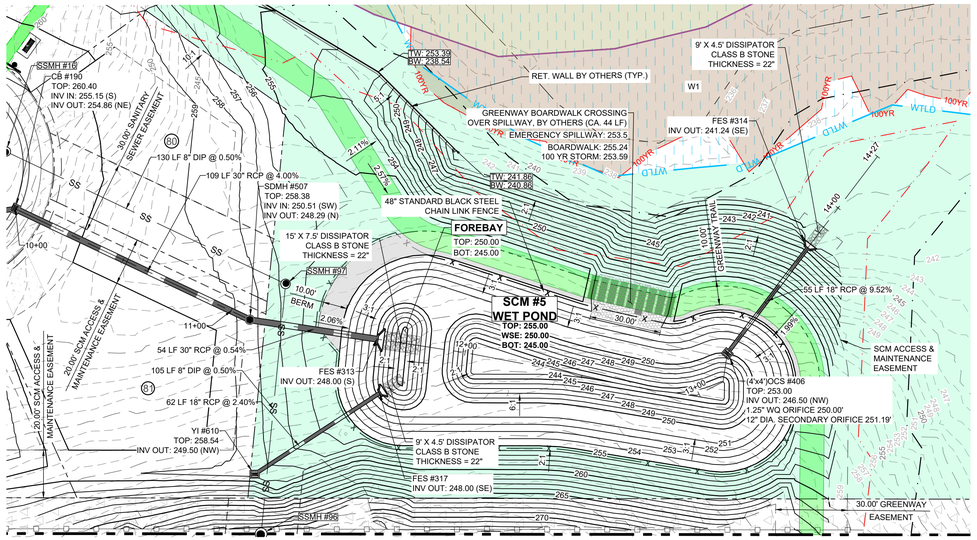
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

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TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '5'

DRAWING SHEET
D-3.4

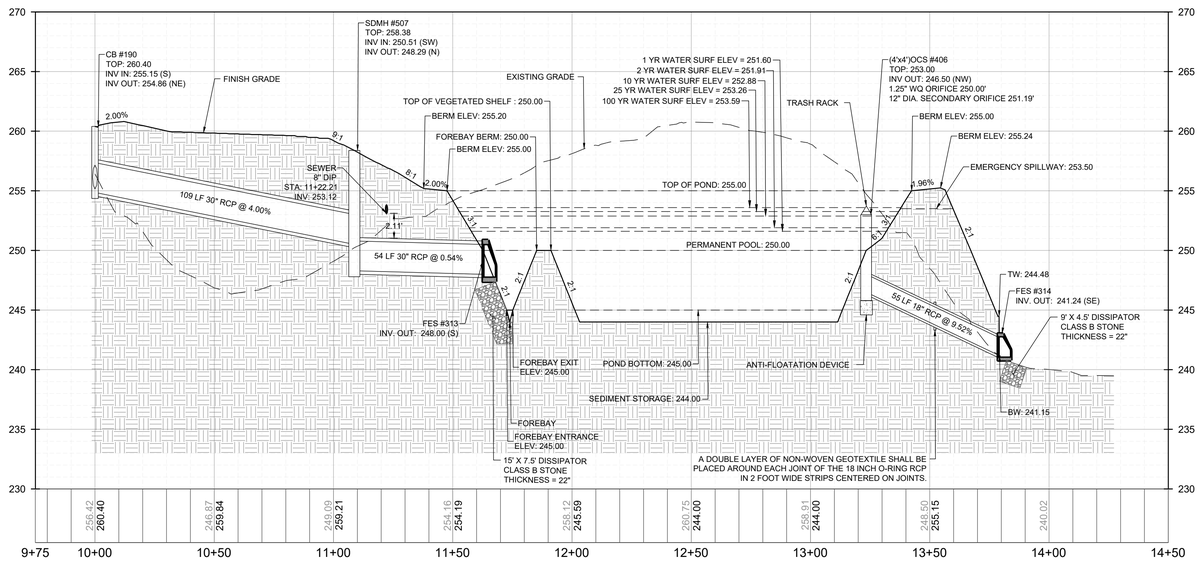


SCM #5 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'

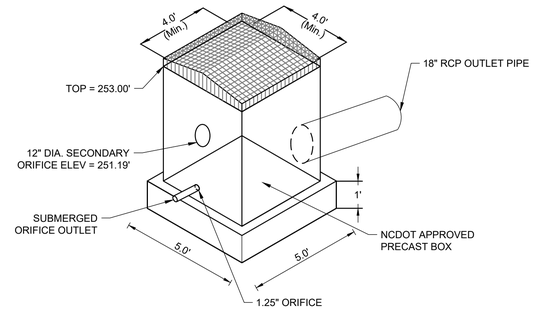
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



SCM #5 (WETPOND) - PROFILE VIEW
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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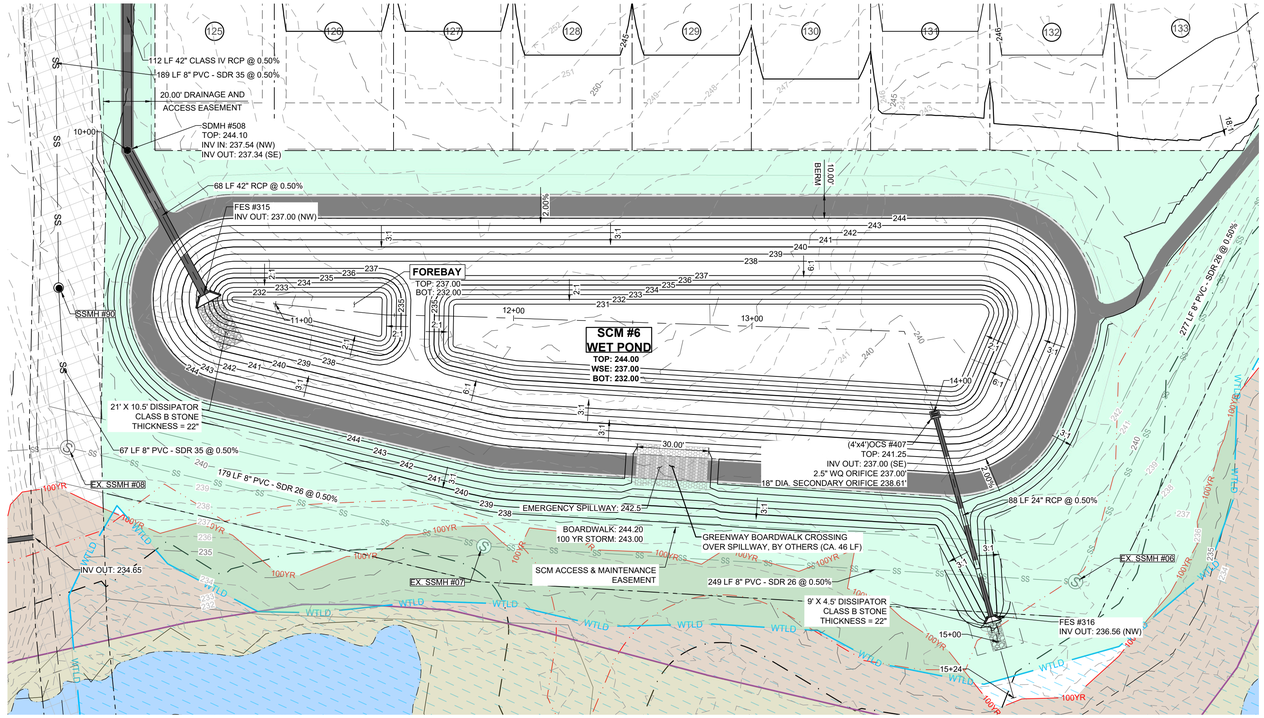
STRONG ROCK PROJECT	P9P-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
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CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '5'

DRAWING SHEET
D-3.5

215 OF 230

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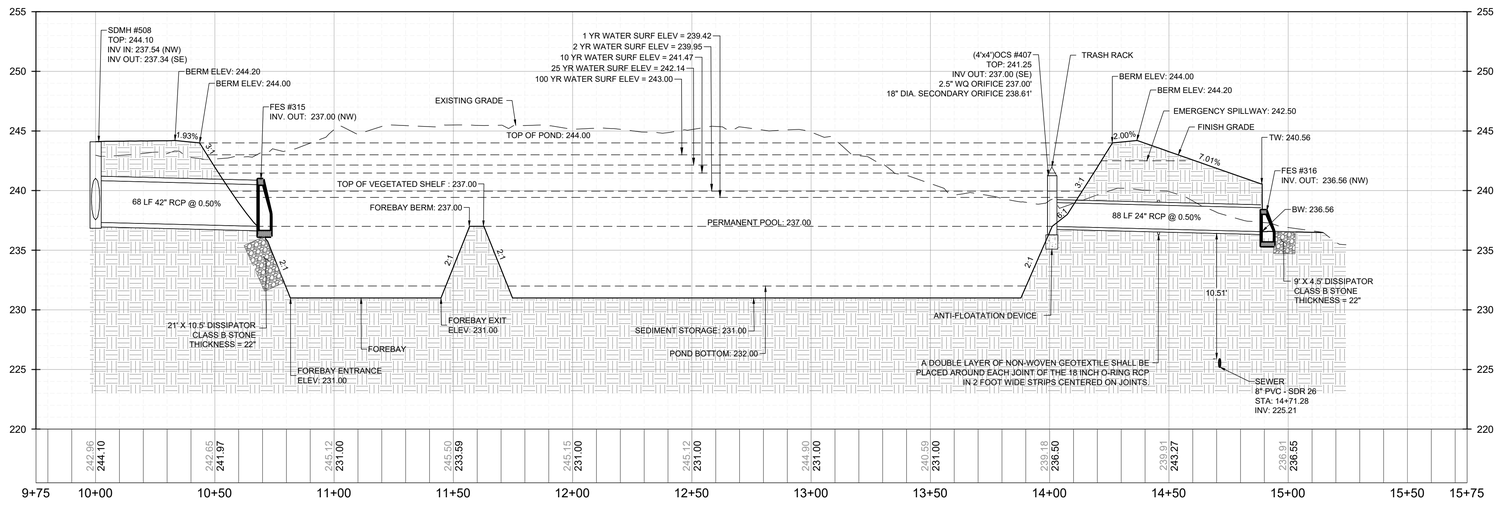


SCM #6 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'

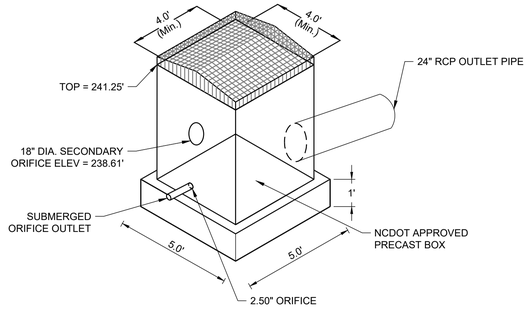
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



SCM #6 (WETPOND) - PROFILE VIEW
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

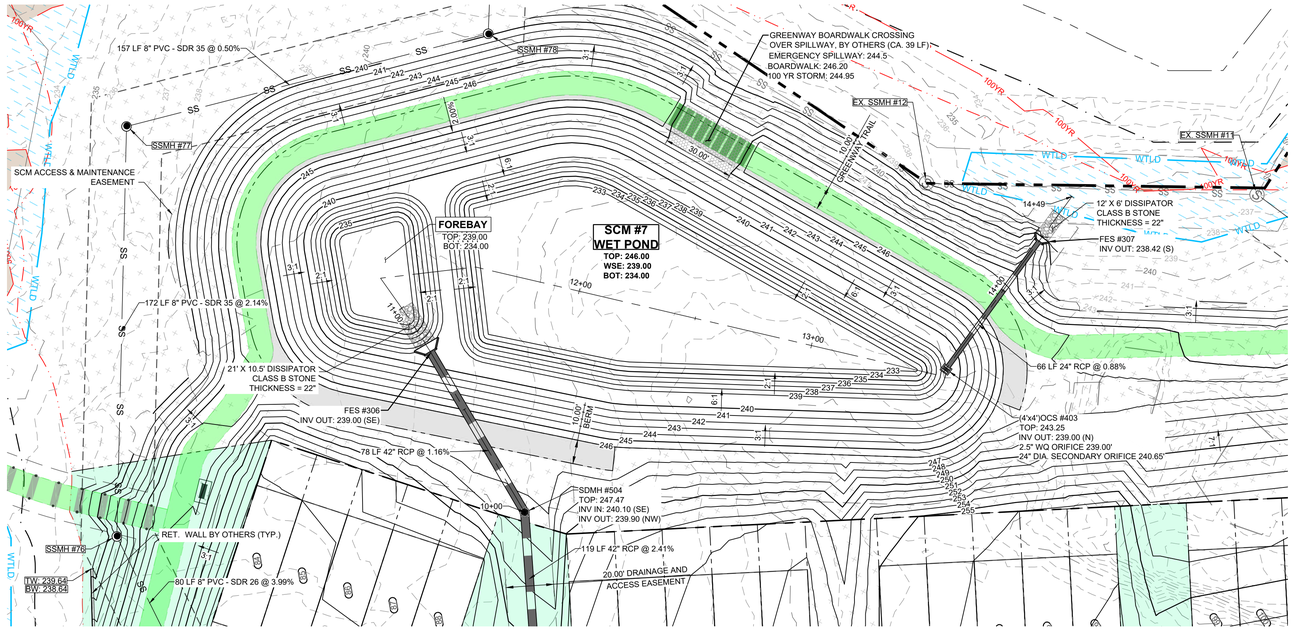
STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '6'

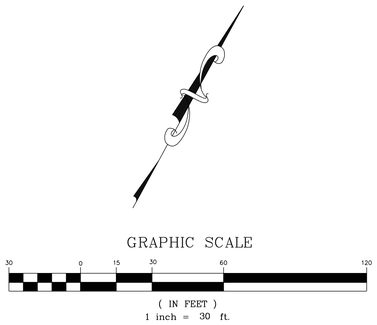
DRAWING SHEET
D-3.6

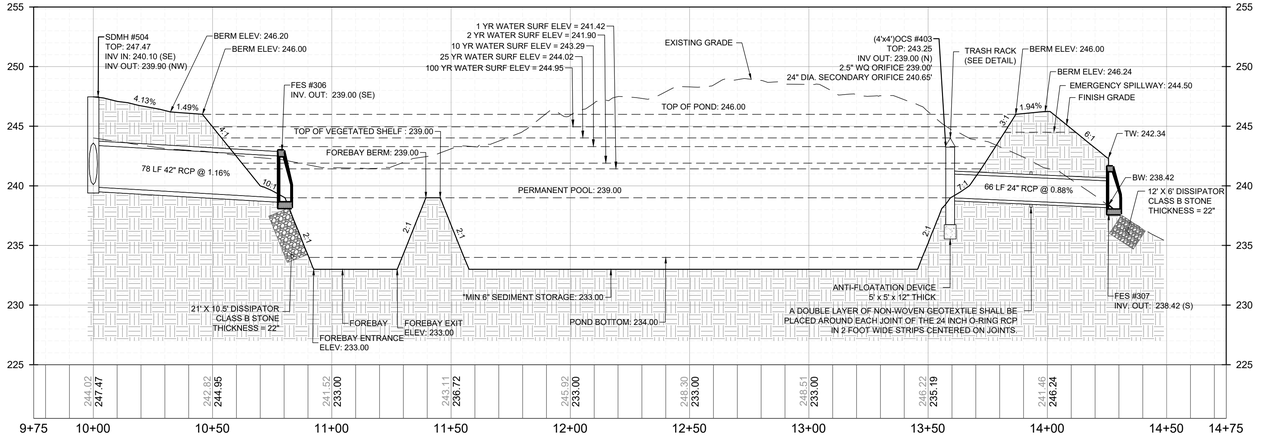
216 OF 230

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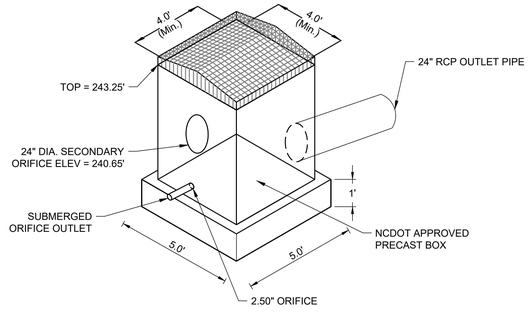


SCM #7 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'





SCM #7 (WETPOND) - PROFILE VIEW
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

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No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

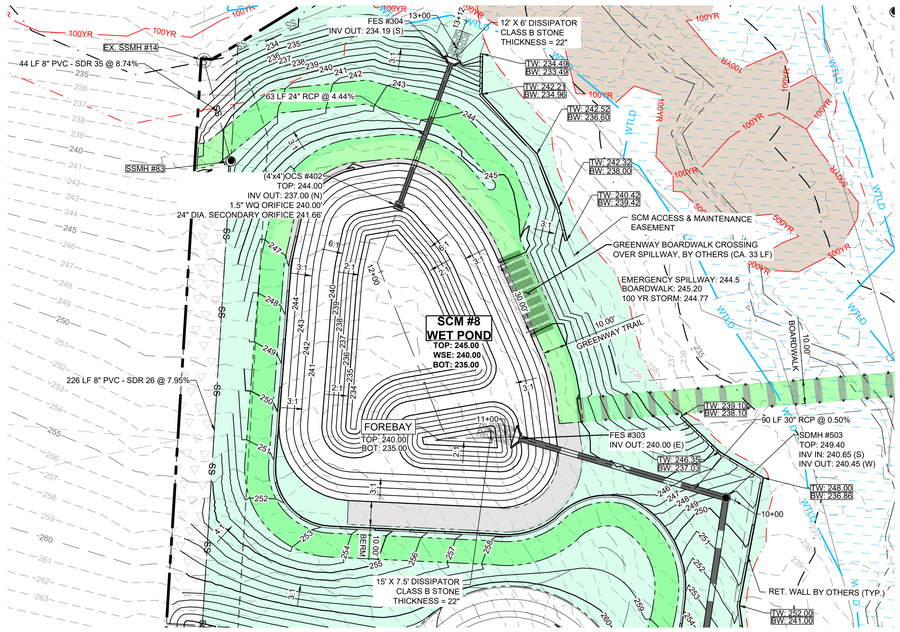
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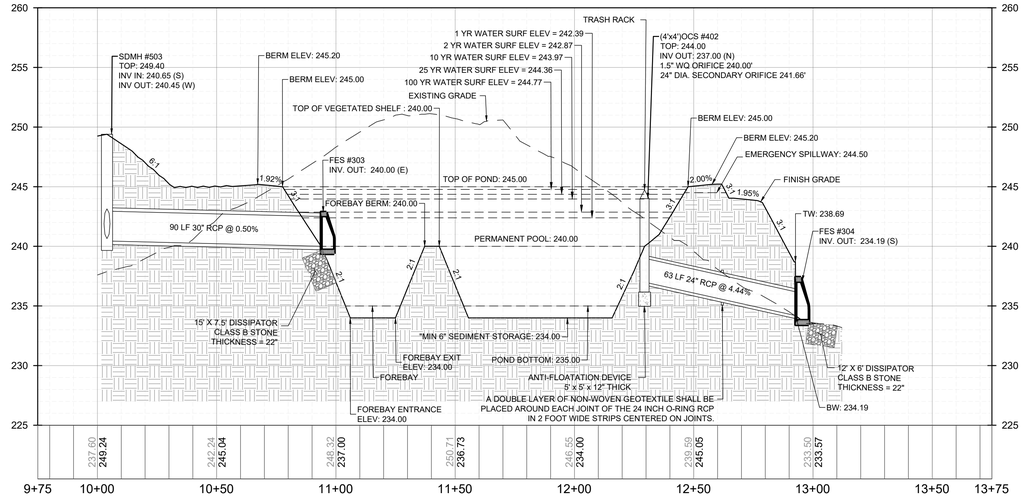
STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '7'

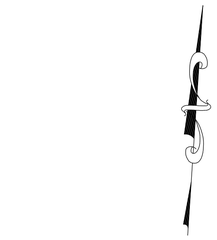
DRAWING SHEET
D-3.7



SCM #8 (WETPOND) - PLAN VIEW
HORIZONTAL: 1" = 30'



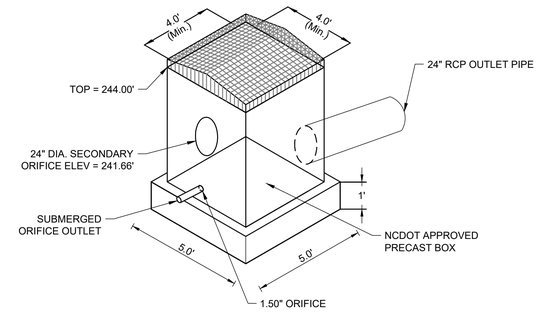
SCM #8 (WETPOND) - PROFILE VIEW
HORIZONTAL: 1" = 30'
VERTICAL: 1" = 6'



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



OUTLET CONTROL STRUCTURE DETAIL, SCM #1
NOT TO SCALE

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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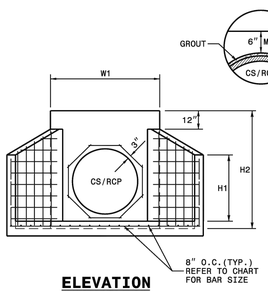
STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORMWATER CONTROL MEASURE '8'

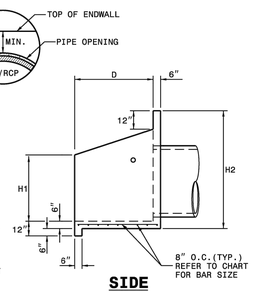
DRAWING SHEET
D-3.8

218 OF 230

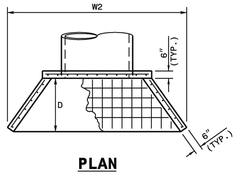
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ELEVATION



SIDE



PLAN

NOTES:

* THIS PRECAST ENDWALL MAY BE USED FOR THE FOLLOWING STANDARDS: 838.01, 838.11, 838.21, 838.27, 838.33, 838.39, 838.51, 838.57, 838.63 AND 838.69.
* INSTALL PRECAST ENDWALLS WITH WINGS AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 838.
* USE 4000 PSI CONCRETE.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185 WITH 2" MIN. CLEARANCE.
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
* PIPE TO BE GROUTED INTO ENDWALL AT JOB SITE BY CONTRACTOR.
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
* CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS AT 8" CTS.THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THIS BAR SIZE AS NEEDED.

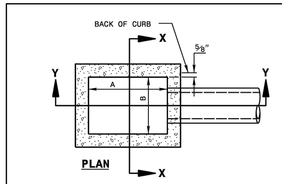
ENDWALL DIMENSIONS

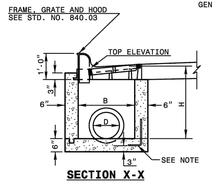
	MINIMUM	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.
PIPE DIA.	BAR SIZE	H1	H2	D	W1	W2
12"	#5 @ 8"	15"/24"	33"/45"	15"/21"	36"/45"	66"/72"
15"	#5 @ 8"	15"/24"	37"/45"	15"/24"	42"/45"	78"/81"
18"	#5 @ 8"	15"/24"	40"/51"	15"/30"	42"/45"	78"/81"
24"	#5 @ 8"	18"/32"	47"/57"	21"/30"	48"/51"	90"/99"
30"	#5 @ 8"	30"/42"	54"/72"	24"/36"	54"/66"	120"/138"
36"	#5 @ 8"	36"/42"	61"/72"	33"/42"	63"/69"	138"/141"
42"	#5 @ 8"	39"/52"	68"/81"	39"/42"	72"/81"	144"/159"
48"	#5 @ 8"	42"/52"	75"/84"	39"/42"	78"/81"	156"/159"
54"	#5 @ 8"	48"/60"	82"/102"	39"/48"	84"/111"	162"/189"
60"	#5 @ 8"	54"/60"	89"/102"	39"/48"	89"/111"	165"/189"
66"	#5 @ 8"	54"/60"	96"/102"	39"/48"	96"/111"	168"/189"
72"	#5 @ 8"	54"/60"	103"/108"	39"/48"	103"/111"	177"/201"

1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
PRECAST CONCRETE ENDWALL
FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

SHEET 1 OF 1
838.80





GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.

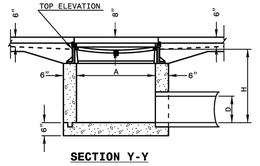
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.

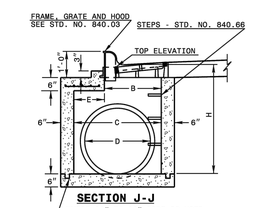
MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 16'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

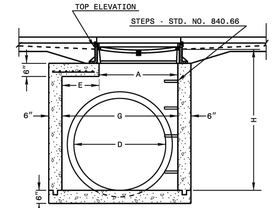
CONSTRUCT WITH PIPE CROWNS MATCHING.

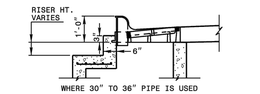
CHAMFER ALL EXPOSED CORNERS 1".

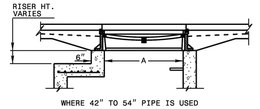
DRAWING NOT TO SCALE.

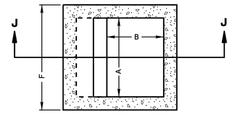


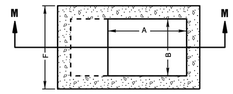








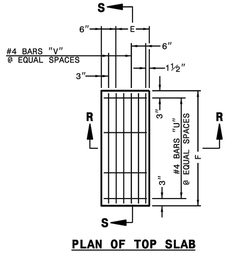




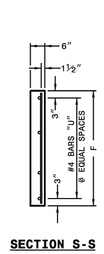
1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE

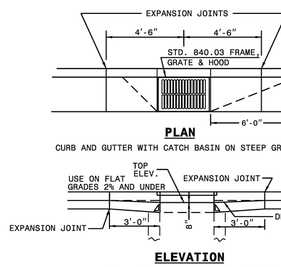
SHEET 2 OF 2
840.02



PLAN OF TOP SLAB

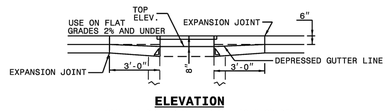


SECTION S-S



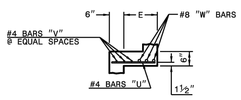
PLAN

CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES

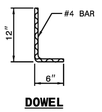


ELEVATION

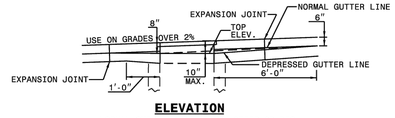
NORMAL CURB AND GUTTER ON LIGHT GRADES



SECTION R-R



DOWEL



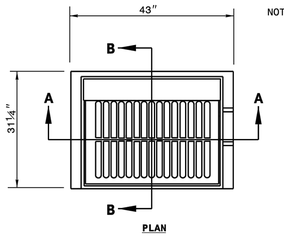
ELEVATION

NORMAL CURB AND GUTTER ON STEEP GRADES

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER) *

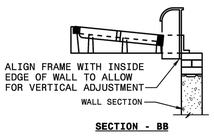
DIMENSIONS OF BOX AND PIPE						COVER DIMENSION									CU.YDS. CONC. IN BOX		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT			BARS-U		BARS-V		BARS-W		TOTAL LBS.	TOP SLAB	BOTTOM SLAB (DIST. CONC. FOR MINIMUM HEIGHT, H	C.M.	R.C.
D	A	B	C	G	H	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH					
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	--	0.235	0.772	0.015	0.026
15"	3'-0"	2'-2"			3'-0"											0.235	0.829	0.023	0.036
18"	3'-0"	2'-2"			3'-3"											0.235	0.887	0.033	0.049
24"	3'-0"	2'-2"			3'-9"											0.235	1.001	0.059	0.085
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	0.123	0.321	1.433	0.092	0.127
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	1.714	0.132	0.178
42"	3'-0"	2'-2"		4'-5"	5'-3"	1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	1.738	0.180	0.243
48"	3'-0"	2'-2"		5'-0"	5'-9"	2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	2.052	0.235	0.317
54"	3'-0"	2'-2"		5'-7"	6'-3"	2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	2.387	0.297	0.401

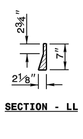
* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

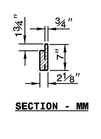


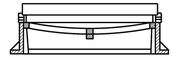
NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

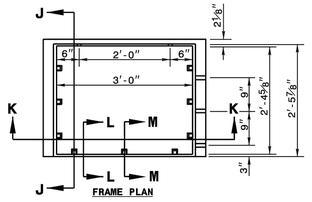
FRAME,GRATE, & HOOD ASS'Y

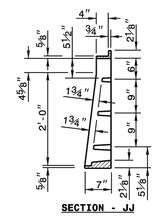


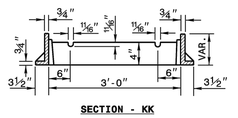


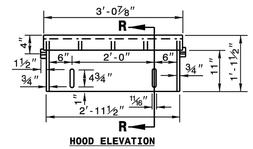


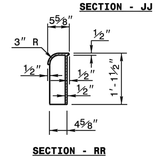












1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2
840.03

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK

ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

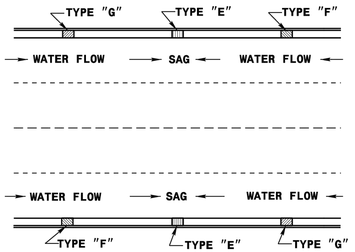
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORM DRAINAGE DETAILS

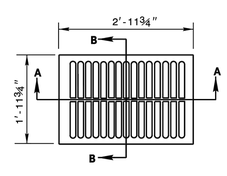
DRAWING
SHEET
D-3.9

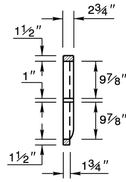
219 OF 230

THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

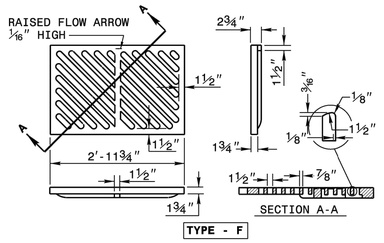
DETAIL SHOWING TYPES OF GRATES
USE ACCORDING TO WATER FLOW.



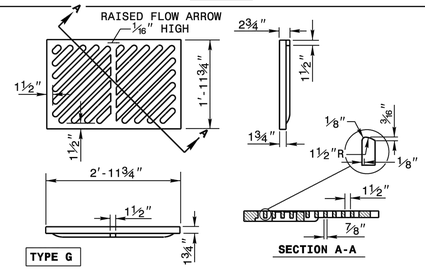




TYPE - E



TYPE - F

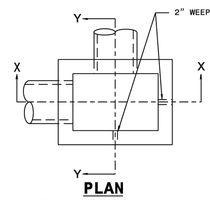


STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2
840.03



PLAN
WITH GRATE & FRAME REMOVED

GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL DROP INLETS OVER 5'-0" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

MAX.DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. DWG. 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

CONSTRUCT WITH PIPE CROWNS MATCHING.

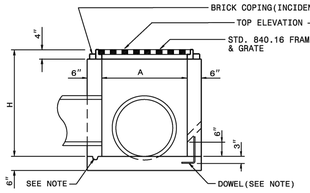
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.

INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.

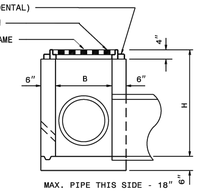
INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.

CHAMFER ALL EXPOSED CORNERS 1".

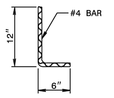
DRAWING NOT TO SCALE.



SECTION X-X



SECTION Y-Y



DOWEL

DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)

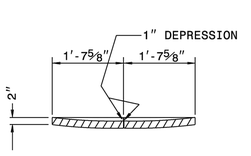
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR MINIMUM HEIGHT, H	C.M.	R.C.
D	A	B	H					
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	〃	〃	2'-3"	〃	〃	0.648	0.023	0.036
18"	〃	〃	2'-6"	〃	〃	0.703	0.033	0.049
24"	〃	〃	3'-0"	〃	〃	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

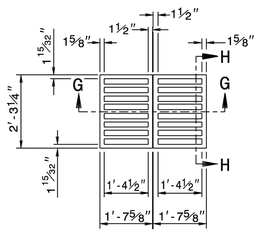
1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

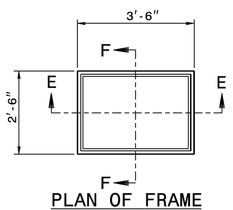
SHEET 1 OF 1
840.14



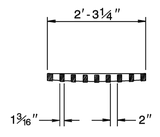
SECTION G-G



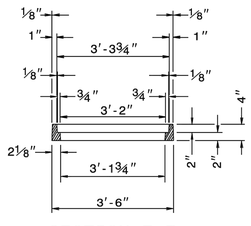
PLAN OF GRATING
CAST IRON



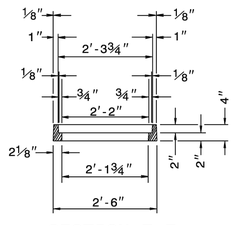
PLAN OF FRAME
CAST IRON



SECTION H-H



SECTION E-E



SECTION F-F

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
DROP INLET FRAME AND GRATES
FOR USE WITH STD. DWG.S 840.14 AND 840.15

SHEET 1 OF 1
840.16

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

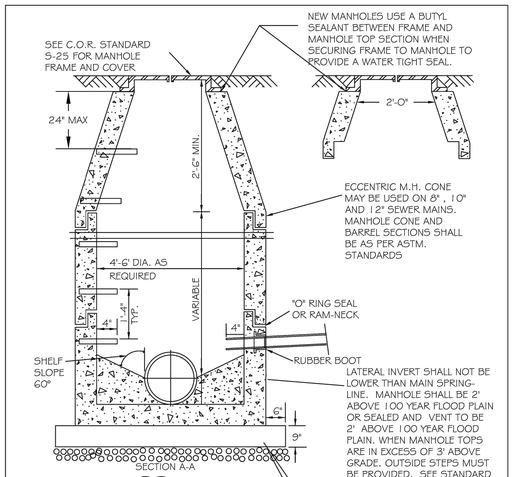
STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORM DRAINAGE DETAILS

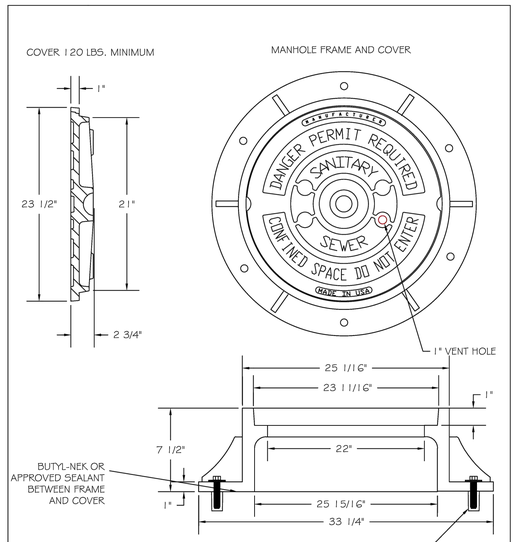
DRAWING / SHEET
D-3.10

220 OF 230

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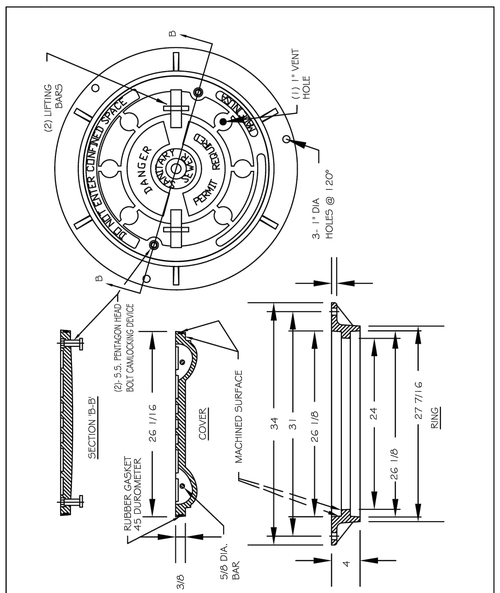


CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD PRECAST SANITARY SEWER MANHOLE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-20	Y.C.A.	12-31-92	ABB	2-21-05
	RRH	3-30-00	D.H.L.	6-16-06



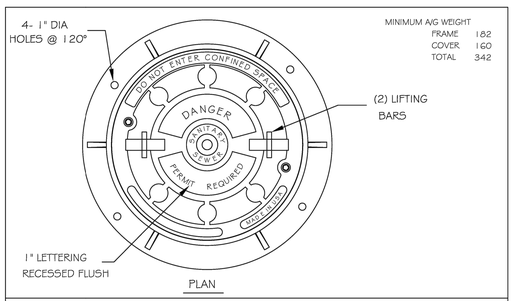
NOTES:
1) ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST.
2) FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS. WITHIN PUBLIC ROW AND 160 LBS. WITHIN EASEMENTS.
3) COVER SHALL WEIGH A MIN. OF 120 LBS.
4) ALL MANHOLE FRAMES OUTSIDE OF PAVED SURFACES SHALL BE BOLTED TO THE CONE SECTION OR RING WITH A MINIMUM OF 4 BOLTS PER FRAME.

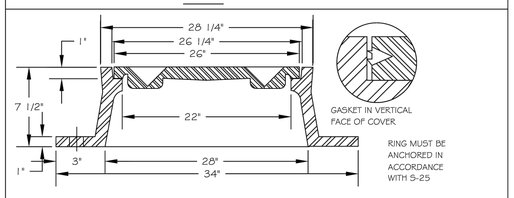
CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD MANHOLE COVER				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-25	3-1-87	3-1-87	A.B.B.	2-9-05
	RRH	3-30-00	D.H.L.	6-18-08

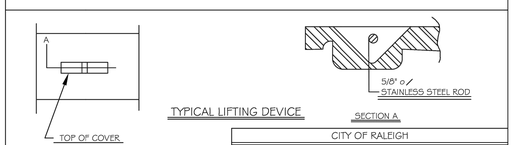


Note: solid cover required when water tight manhole specified.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
FLAT TOP MANHOLE COVER				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-25a	3-1-87	3-1-87	A.B.B.	2-9-05
	RRH	3-30-00	D.H.L.	6-18-08

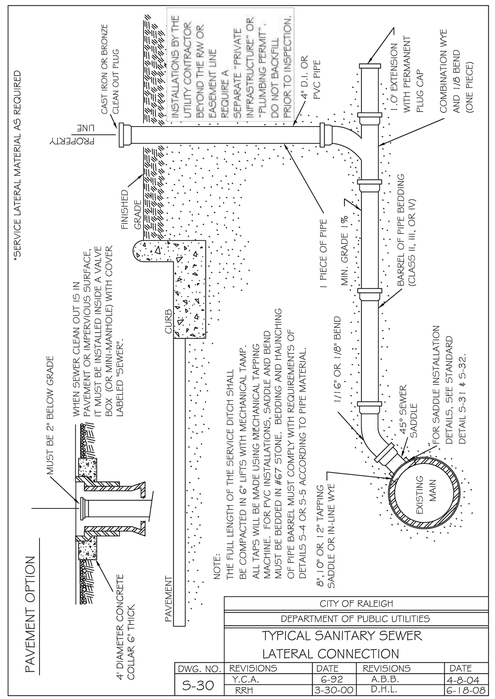






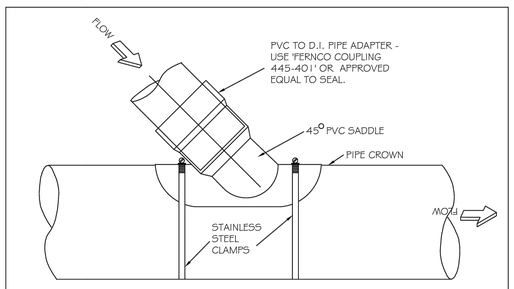
TYPICAL LIFTING DEVICE

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
MANHOLE FRAME AND WATERTIGHT COVER				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-26	3-1-87	3-1-87	ABB	8-29-05
	RRH	3-30-00	D.H.L.	6/18/08

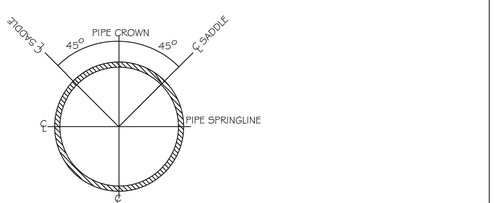


NOTE:
THE FULL LENGTH OF THE SERVICE DITCH SHALL BE COMPACTED IN 6" LIFTS WITH MECHANICAL TAMP. ALTERNATIVE BEDDING MATERIAL MAY BE USED WITH "FLOW-FILL" MACHINE". FOR PVC INSTALLATIONS, SADDLE AND BEND MUST BE BEDDED IN #67 STONE. BEDDING AND HAUNCHING OF PIPE BARREL MUST COMPLY WITH REQUIREMENTS OF DETAILS S-4 OR S-5 ACCORDING TO PIPE MATERIAL.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TYPICAL SANITARY SEWER LATERAL CONNECTION				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-30	Y.C.A.	6-92	A.B.B.	4-8-04
	RRH	3-30-00	D.H.L.	6-18-08



BACKFILL UNDER PVC SADDLE, ADAPTOR, AND CAST IRON BEND WITH#67 STONE AS SHOWN ON S-4.



SADDLE INSTALLATION LIMITS

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
LATERAL SADDLE INSTALLATION DETAIL FOR PVC PIPE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-31		3-1-87		
	RRH	3-30-00		

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No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-2404	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

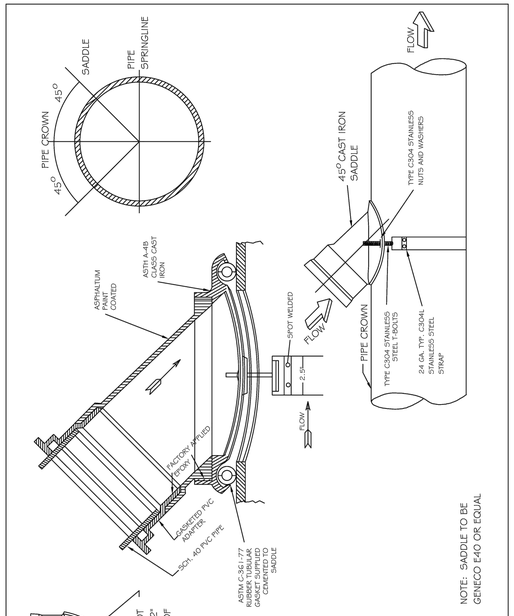
SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

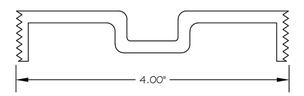
STRONG ROCK PROJECT	P&P-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
SANITARY SEWER DETAILS

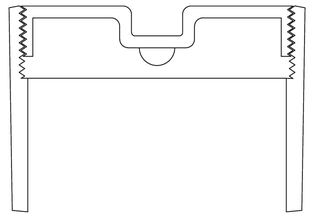
DRAWING SHEET
D-4.0



CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
LATERAL SADDLE INSTALLATION DETAIL FOR VCP AND DUCTILE IRON PIPE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-32	3-1-87	3-1-87		
	RRH	3-30-00		



STANDARD 4" BRONZE CLEANOUT PLUG

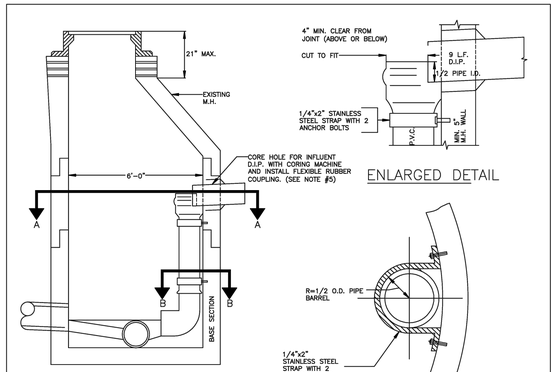


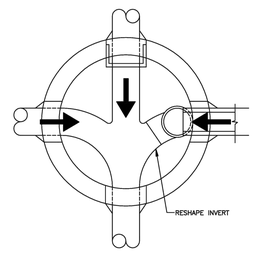
CLEANOUT FERRULE WITH PLUG

STYLES ACCEPTED:

INVERTED NUT
RAISED NUT

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
4" CLEANOUT PLUG				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-34	D.W.C.	3-1-87	RRH	3-30-00
		3-27-98		





SECTION A–A

NOTES:

1. PIPE FOR INSIDE DROP SHALL BE SDR 35 PVC CONFORMING TO ASTM SPECIFICATION D3034.
2. BOTTOM BEND TO BE 90° SHORT BEND, BELL SPIGOT, OF SDR 35 PVC. SPIGOT OF BEND TO REST DIRECTLY ON EXISTING SHELF. CONSTRUCT MASONRY TROUGH FROM DROP EFFLUENT TO MAIN CHANNEL.
3. NOTCH BELL OF PVC DROP TO ACCEPT D.I.P. SPIGOT AS SHOWN.
4. LOCATE STRAPS AT PIPE BELL AND ABOVE BELL OF 90° BEND AS SHOWN. ADD EXTRA STRAPS AS NECESSARY TO MAINTAIN MAXIMUM SPACING OF TEN FEET.
5. HOLE IN MANHOLE WALL TO BE MADE WITH A CORING MACHINE. INSTALL FLEXIBLE RUBBER COUPLING.
6. CORE HOLE SHALL NOT ENTER CONE SECTION.
7. STEPS SHALL BE RELOCATED IF THEY CONFLICT WITH INSIDE DROP.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
INSIDE DROP MANHOLE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-53	MAB	11-6-13		

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
	NOT FOR CONSTRUCTION
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

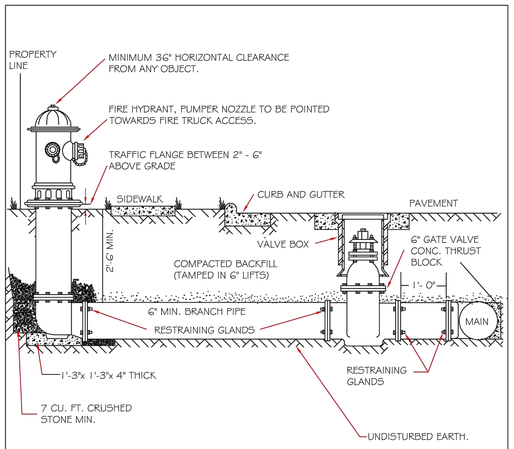
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
SANITARY SEWER DETAILS

DRAWING SHEET

D-4.1

222 OF 230

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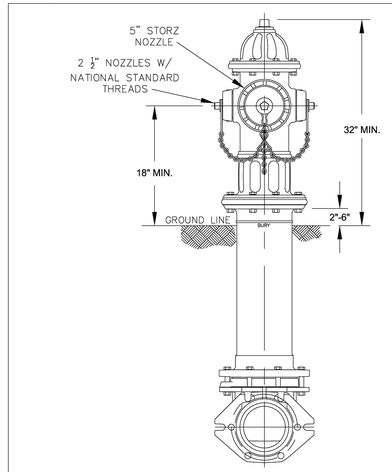


NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M&H, WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR U5 PIPE.
2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
3. 6" GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT
4. STEEL RODS AND BOLTS SHALL BE ¾" HOT DIPPED GALVANIZED
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION
   RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE.
   FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW

ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD FIRE HYDRANT INSTALLATION DETAIL

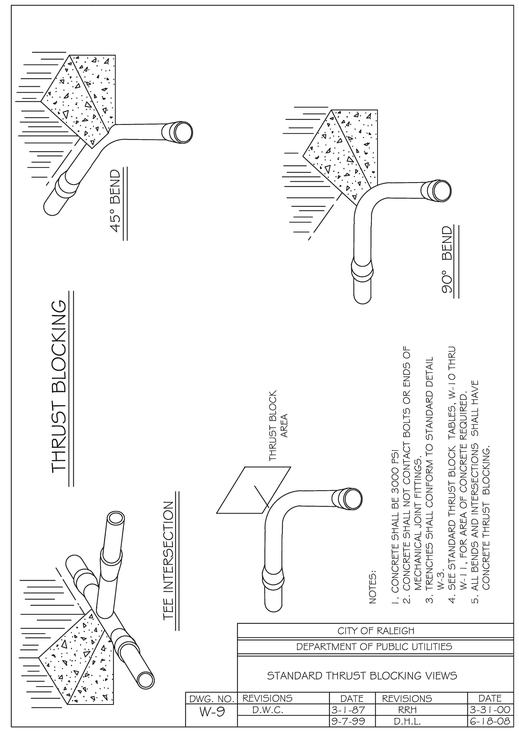
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-4	ABB	4-6-04	PAP	2/17/09
	DHL	2/14/06		



NOTES:
1. **ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.**
2. **ALL PRIVATE FIRE HYDRANTS SHALL BE RED.**

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
RALEIGH, GARNER, KNIGHTDALE, ROLESVILLE, WAKE FOREST, WENDELL & ZEBULON
STANDARD FIRE HYDRANT WITH 5" STORZ PUMPER NOZZLE

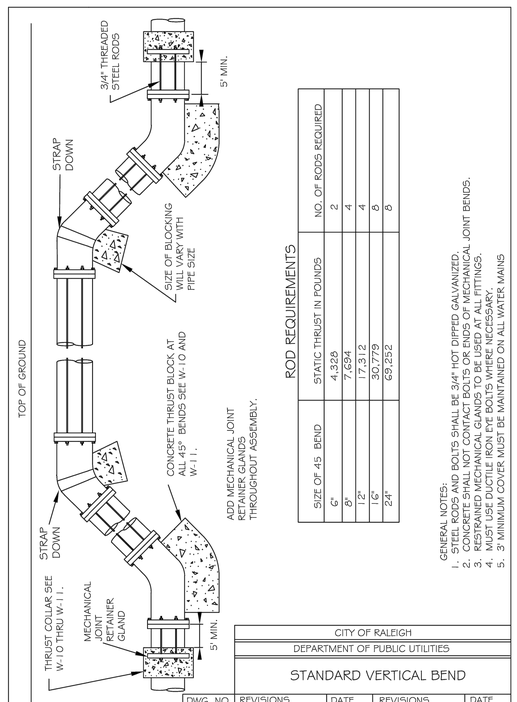
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-5	MAB	6-30-16		
	KAT	9-15-17		



NOTES:
1. CONCRETE SHALL BE 3000 PSI
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
3. TRENCHES SHALL CONFORM TO STANDARD DETAIL W-8.
4. SEE STANDARD THRUST BLOCK TABLES, W-10 THRU W-11, FOR AREA OF CONCRETE REQUIRED.
5. ALL BENDS AND INTERSECTIONS SHALL HAVE CONCRETE THRUST BLOCKING.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD THRUST BLOCKING VIEWS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-9	D.W.C.	3-1-97	RRH	3-31-00
		9-7-99	D.H.L.	6-16-06



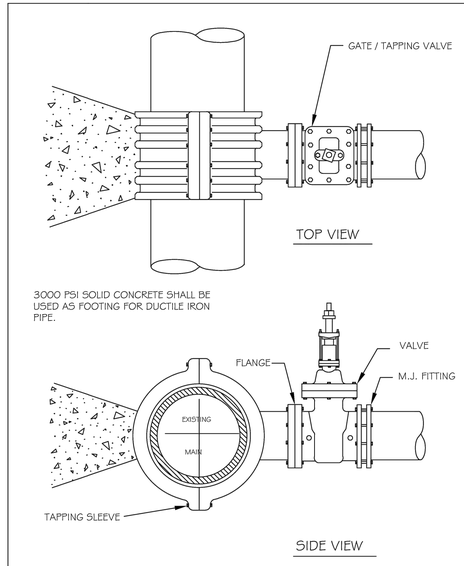
ROD REQUIREMENTS

SIZE OF 45 BEND	STATIC THRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	8
24"	69,252	8

GENERAL NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS.
3. RESTRAINED MECHANICAL GLANDS TO BE USED AT ALL FITTINGS.
4. MJ'S OF DUCTILE IRON PIPE JOINTS WHERE NECESSARY.
5. 3' MINIMUM COVER MUST BE MAINTAINED ON ALL WATER MAINS

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD VERTICAL BEND

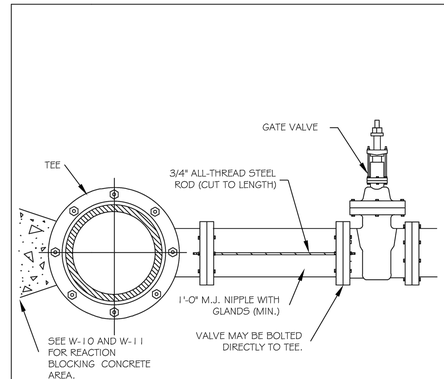
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-12	ABB	4-6-04	J.P.S.	11-1-10
	D.H.L.	6-18-08		



NOTES:
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. SEE STANDARD REACTION BLOCK TABLES, W-10 AND W-11 FOR AREA OF CONCRETE REQUIRED.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
4" - 24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-14	Y.C.A.	12-31-91	RRH	3-31-00
	D.W.C.	9-7-99	J.P.S.	11-1-10



ROD REQUIREMENTS

NO. OF RODS	BRANCH SIZE
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6
30"	8
36"	8

NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
2. SEE STANDARD THRUST BLOCK, TABLES W-10 AND W-11 FOR CONCRETE.
3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
4. THIS RODDING REQUIREMENT DOES NOT APPLY TO FIRE HYDRANTS.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
VALVE RESTRAINT AT TEES AND CROSSES FOR LINES (4"-24")

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-15	RRH	3-31-00	D.H.L.	6-16-06
	A.B.B.	4-19-04	J.P.S.	11-1-10

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01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

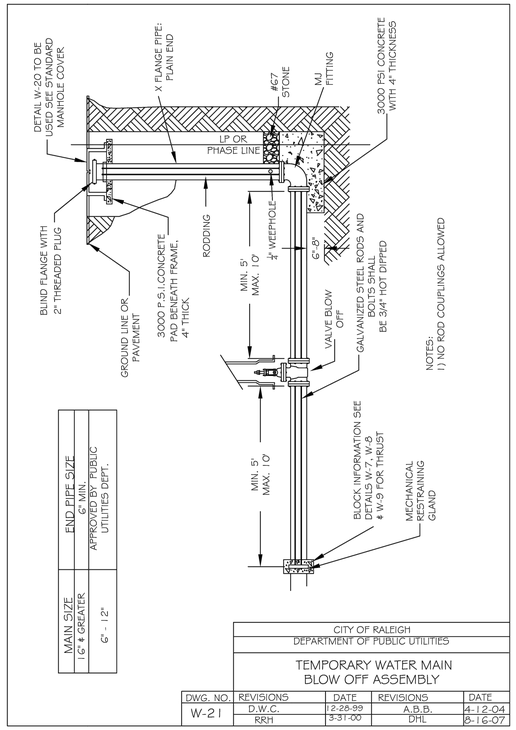
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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
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SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
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WATER DETAILS

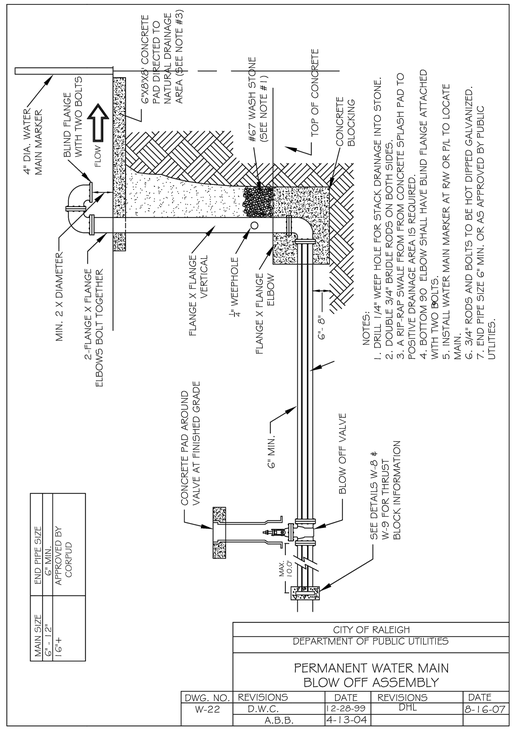
DRAWING SHEET
D-5.0



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

TEMPORARY WATER MAIN
BLOW OFF ASSEMBLY

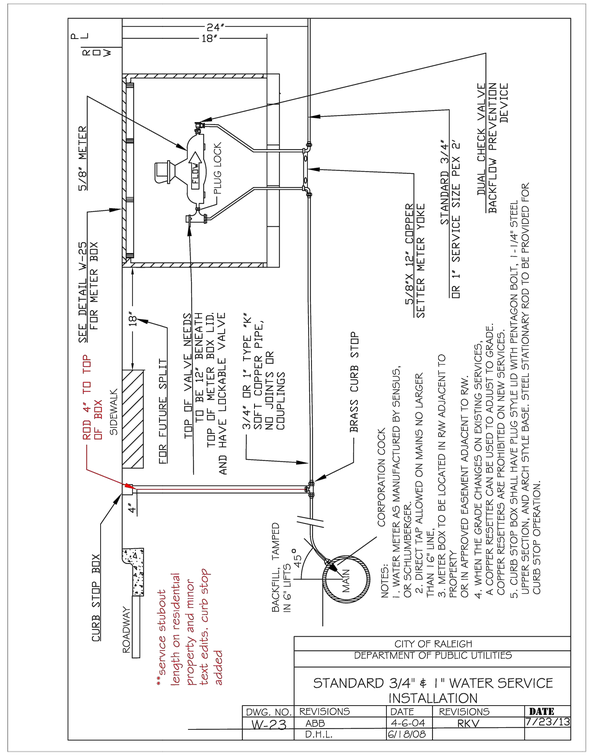
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-21	D.W.C.	2-28-99	A.B.B.	4-12-04
	RRH	3-31-00	DHL	8-16-07



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

PERMANENT WATER MAIN
BLOW OFF ASSEMBLY

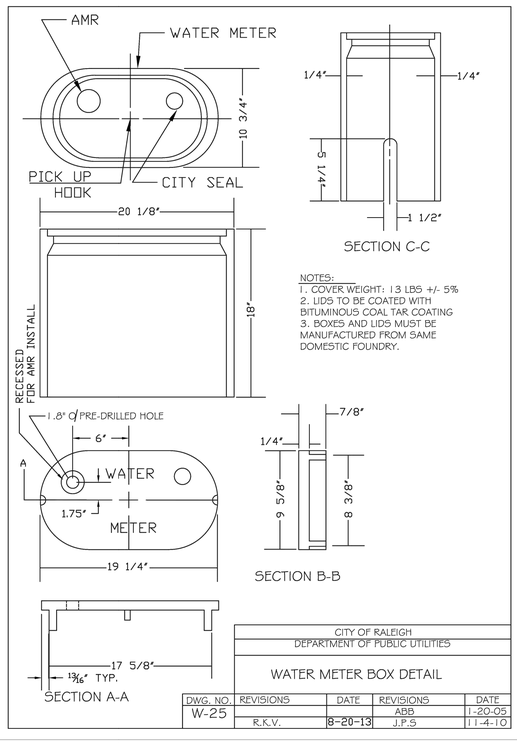
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-22	D.W.C.	12-28-99	DHL	8-16-07
	A.B.B.	4-13-04		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

STANDARD 3/4" & 1" WATER SERVICE INSTALLATION

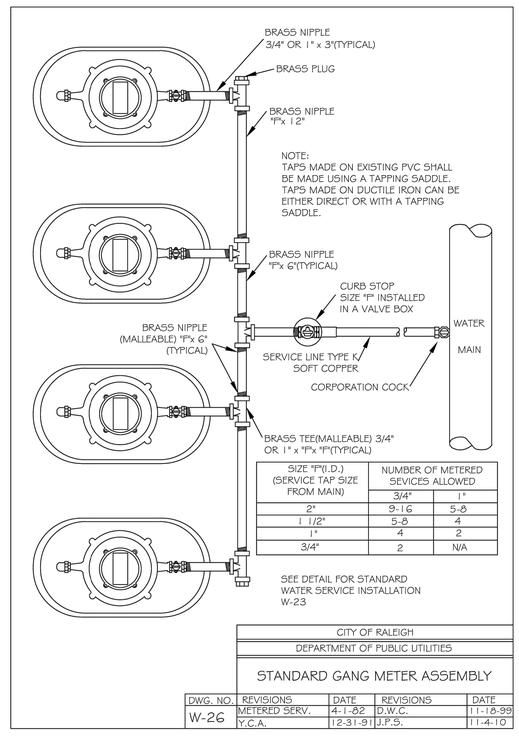
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-23	ABB	4-6-04	RKV	7/23/13
	D.H.L.	6/18/08		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

WATER METER BOX DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-25			ABB	1-20-05
	R.K.V.	8-20-13	J.P.S	11-4-10



SIZE "P"(I.D.) (SERVICE TAP SIZE FROM MAIN)	NUMBER OF METERED SEVICES ALLOWED	
	3/4"	1"
2"	9-16	5-8
1 1/2"	5-8	4
1"	4	2
3/4"	2	N/A

SEE DETAIL FOR STANDARD WATER SERVICE INSTALLATION W-23

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

STANDARD GANG METER ASSEMBLY

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-26	METERED SERV.	4-1-02	D.W.C.	11-18-99
	Y.C.A.	12-31-91	J.P.S.	11-4-10

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03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

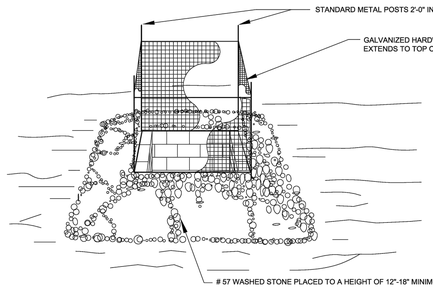
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WATER DETAILS

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D-5.1

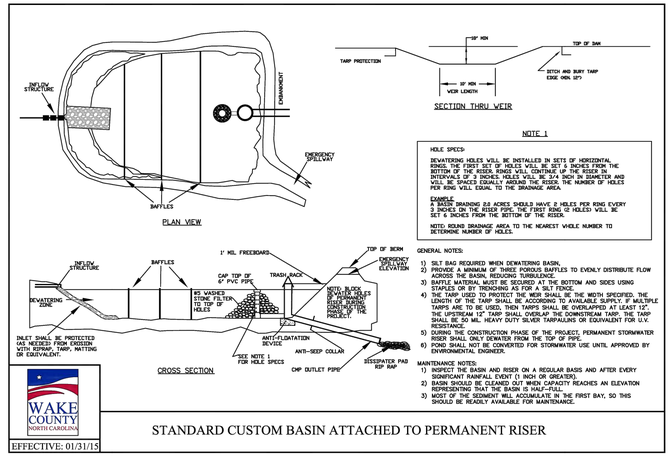


MAINTENANCE NOTES:

1. REMOVE SEDIMENT WHEN HALF HEIGHT OF STONE AND CLEAR HARDWARE OF DEBRIS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS, TAKING CARE NOT TO DAMAGE OR UNDERCUT HARDWARE DURING SEDIMENT REMOVAL.
2. REPLACE STONE AS NEEDED.

EFFECTIVE: 01/31/08

STANDARD GRAVEL YARD INLET PROTECTION



NOTE 1

HOLE SPECS:

DEWATERING HOLES WILL BE INSTALLED IN SETS OF HORIZONTAL RINGS. TOP FIRST SET OF HOLES SHALL BE SET 3 INCHES FROM THE BOTTOM OF THE RISER. RISER RINGS WILL CONTINUE UP THE RISER IN INTERVALS OF 3 INCHES. HOLES WILL BE 3/4 INCH IN DIAMETER AND WILL BE SPACED EQUALLY AROUND THE RISER. THE NUMBER OF HOLES PER RING WILL EQUAL TO THE DRAINAGE AREA.

EXAMPLE
A BASIN DRAINING 2.0 ACRES SHOULD HAVE 2 HOLES PER RING EVERY 3 INCHES ON THE RISER PIPE. THE FIRST RING (2 HOLES) WILL BE SET 3 INCHES FROM THE BOTTOM OF THE RISER.

NOTE: ROUND DRAINAGE AREA TO THE NEAREST WHOLE NUMBER TO DETERMINE NUMBER OF HOLES.

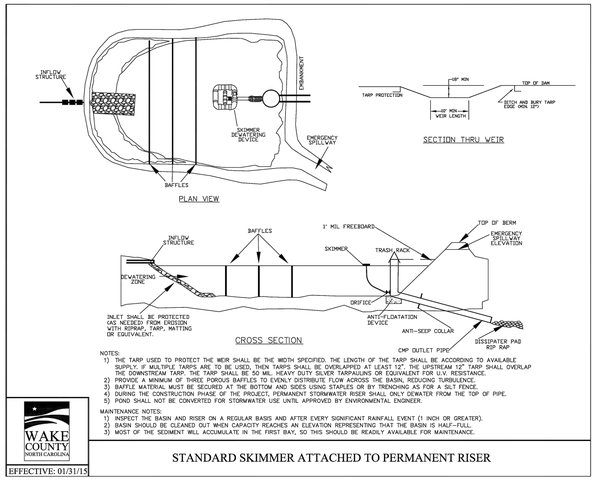
GENERAL NOTES:

1) SILT SAC REQUIRED WHEN DEWATERING BASIN.
2) PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
3) BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
4) THE TARP USED TO PROTECT THE WEIR SHALL BE THE WIDTH SPECIFIED. THE LENGTH OF THE TARP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TARPS ARE TO BE USED, THEN TARPS SHALL BE OVERLAPPED AT LEAST 12". THE UPSTREAM 12" TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 50 MIL. HEAVY DUTY SILVER TARPAULINS OR EQUIVALENT FOR U.V. RESISTANCE.
5) DURING THE CONSTRUCTION PHASE OF THE PROJECT, PERMANENT STORMWATER RISER SHALL ONLY DEWATER FROM THE TOP OF PIPE.
6) POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER.

MAINTENANCE NOTES:
1) INSPECT THE BASIN AND RISER ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER).
2) BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.
3) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.

EFFECTIVE: 01/31/15

STANDARD CUSTOM BASIN ATTACHED TO PERMANENT RISER

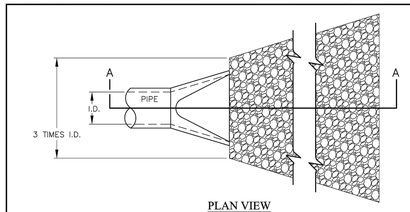


NOTES:
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2) BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.
3) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.

EFFECTIVE: 01/31/15

STANDARD SKIMMER ATTACHED TO PERMANENT RISER

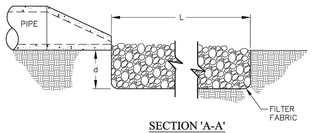


NOTES:

1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

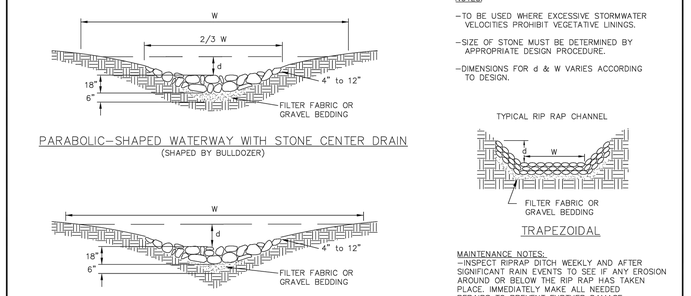
MAINTENANCE NOTES:

1. INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.



EFFECTIVE: 01/31/08

STANDARD PIPE OUTLET TO FLAT AREA NO WELL-DEFINED CHANNEL

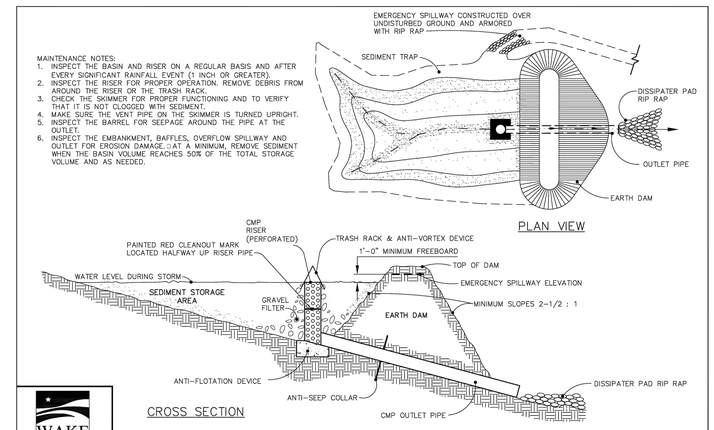


NOTES:
- TO BE USED WHERE EXCESSIVE STORMWATER VELOCITIES PROHIBIT VEGETATIVE LININGS.
- SIZE OF STONE MUST BE DETERMINED BY APPROPRIATE DESIGN PROCEDURE.
- DIMENSIONS FOR d & W VARIES ACCORDING TO DESIGN.

MAINTENANCE NOTES:
- INSPECT RIPRAP DITCH WEEKLY AND AFTER SIGNIFICANT RAIN EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.
- IF EROSION IS EVIDENT PAST END OF RIPRAP DITCH DUE TO RUNOFF DISCHARGING FROM DITCH, INCREASE DIMENSIONS OF RIPRAP PAD PROVIDED SPACE IS AVAILABLE WITHIN THE APPROVED LIMITS OF DISTURBANCE.
- MAINTAIN ALL VEGETATION ADJACENT TO CHANNEL IN A HEALTHY, VIGOROUS CONDITION TO PROTECT DITCH FROM EROSION AND SCOUR DURING OUT-OF-BANK FLOW.

EFFECTIVE: 01/31/08

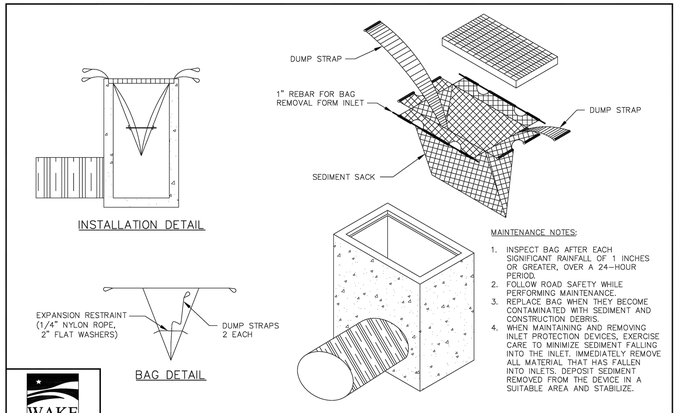
STANDARD RIP-RAP LINED CHANNELS



MAINTENANCE NOTES:
1. INSPECT THE BASIN AND RISER ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER).
2. INSPECT THE RISER FOR PROPER OPERATION. REMOVE DEBRIS FROM AROUND THE RISER OR THE TRASH RACK.
3. CHECK THE SKIMMER FOR PROPER FUNCTIONING AND TO VERIFY THAT IT IS NOT CLOGGED WITH SEDIMENT.
4. MAKE SURE THE VENT PIPE ON THE SKIMMER IS TURNED UPRIGHT.
5. INSPECT THE BARREL FOR SEEPAGE AROUND THE PIPE AT THE OUTLET.
6. INSPECT THE EMBANKMENT, BAFFLES, OVERFLOW SPILLWAY AND OUTLET FOR EROSION DAMAGE. AT A MINIMUM, REMOVE SEDIMENT WHEN THE BASIN VOLUME REACHES 50% OF THE TOTAL STORAGE VOLUME AND AS NEEDED.

EFFECTIVE: 01/31/08

STANDARD RISER-BARREL SEDIMENT BASIN

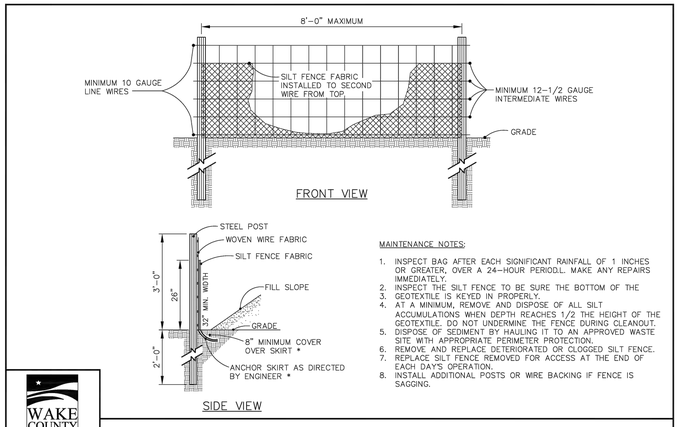


MAINTENANCE NOTES:

1. INSPECT BAG AFTER EACH SIGNIFICANT RAINFALL OF 1 INCHES OR GREATER, OVER A 24-HOUR PERIOD.
2. FOLLOW ROAD SAFETY WHILE PERFORMING MAINTENANCE.
3. REPLACE BAG WHEN THEY BECOME CONTAMINATED WITH SEDIMENT AND CONSTRUCTION DEBRIS.
4. WHEN MAINTAINING AND REMOVING INLET PROTECTION DEVICES, EXERCISE CARE TO MINIMIZE SEDIMENT FALLING INTO THE INLET. IMMEDIATELY REMOVE ALL MATERIAL THAT HAS FALLEN INTO INLETS. DEPOSIT SEDIMENT REMOVED FROM THE DEVICE IN A SUITABLE AREA AND STABILIZE.

EFFECTIVE: 01/31/08

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE

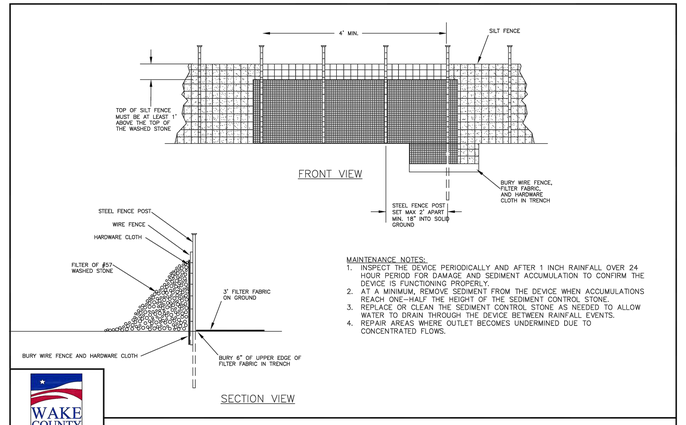


MAINTENANCE NOTES:

1. INSPECT BAG AFTER EACH SIGNIFICANT RAINFALL OF 1 INCHES OR GREATER, OVER A 24-HOUR PERIOD. MAKE ANY REPAIRS IMMEDIATELY.
2. INSPECT THE SILT FENCE TO BE SURE THE BOTTOM OF THE GEOTEXTILE IS KEYED IN PROPERLY.
3. AT A MINIMUM, REMOVE AND DISPOSE OF ALL SILT ACCUMULATIONS WHEN DEPTH REACHES 1/2 THE HEIGHT OF THE GEOTEXTILE. DO NOT UNDERMINE THE FENCE DURING CLEANOUT.
4. DISPOSE OF SEDIMENT BY HAULING IT TO AN APPROVED WASTE SITE WITH APPROPRIATE PERIMETER PROTECTION.
5. REMOVE AND REPLACE DETERIORATED OR CLOGGED SILT FENCE.
6. REPLACE SILT FENCE REMOVED FOR ACCESS AT THE END OF EACH DAY'S OPERATION.
7. INSTALL ADDITIONAL POSTS OR WIRE BACKING IF FENCE IS SAGGING.

EFFECTIVE: 01/31/08

STANDARD TEMPORARY SILT FENCE



MAINTENANCE NOTES:
1. INSPECT THE DEVICE PERIODICALLY AND AFTER 1 INCH RAINFALL OVER 24 HOUR PERIOD FOR DAMAGE AND SEDIMENT ACCUMULATION TO CONFIRM THE DEVICE IS FUNCTIONING PROPERLY.
2. AT A MINIMUM, REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL STONE.
3. REPLACE OR CLEAN THE SEDIMENT CONTROL STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE BETWEEN RAINFALL EVENTS.
4. REPAIR AREAS WHERE OUTLET BECOMES UNDERMINED DUE TO CONCENTRATED FLOWS.

EFFECTIVE: 01/31/08

STANDARD SILT FENCE OUTLET

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

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STRONG ROCK PROJECT PSP-23-03	
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

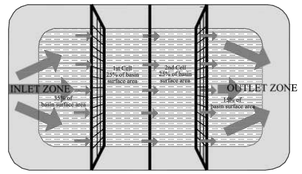
EROSION CONTROL PLAN DETAILS

DRAWING SHEET

D-6.0

225 OF 230

THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

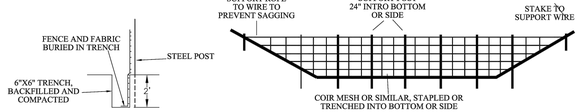


PLAN VIEW

NOTES:
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 GM2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.

MAINTENANCE NOTES:
1. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH 1" RAINFALL.
2. MAINTAIN ACCESS TO BAFFLES AND MAKE ANY REPAIRS IMMEDIATELY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL.
4. AVOID DAMAGING BAFFLES DURING CLEANOUT AND REPLACE IF DAMAGED.
5. REMOVE BAFFLES AND SEDIMENT DEPOSITS AFTER CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.

CROSS SECTION

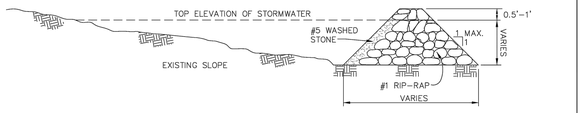


SECTION VIEW AT OPENING

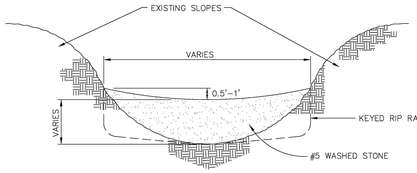
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD BAFFLES DETAIL



SIDE VIEW



FRONT VIEW

CONSTRUCTION NOTES:
1. HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
2. KEY RIP RAP INTO THE DAM FOR STABILIZATION.

MAINTENANCE NOTES:
1. INSPECT CHECK DAMS WEEKLY AND AFTER EVERY RAINFALL EVENT OF 1" OR MORE.
2. REMOVE SEDIMENT AND DEBRIS AS NEEDED.
3. MAINTAIN FLOW THROUGH THE CHECK DAM.



STEP SEQUENCE

NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

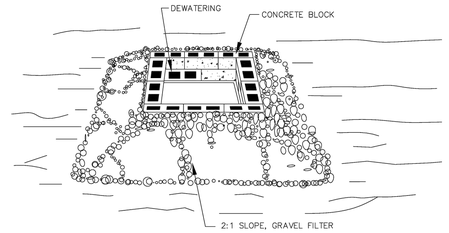
STANDARD CHECK DAM

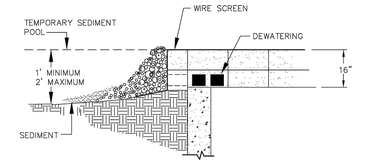
CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

MAINTENANCE NOTES:

1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH 1" RAIN EVENT.
2. REMOVE SEDIMENT WHEN VOLUME OF THE BASIN IS REDUCED BY ONE-HALF.
3. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.





WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

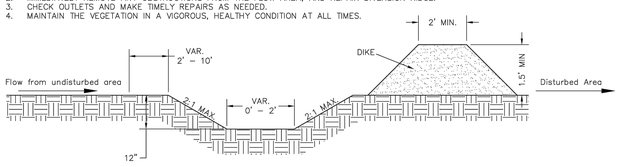
STANDARD BLOCK & GRAVEL DROP INLET PROTECTION

NOTES:

1. DIVERSION TO BE USED UPSLOPE OF A CONSTRUCTION SITE TO PREVENT STORM RUNOFF FROM ENTERING THE DISTURBED AREA.
2. IMMEDIATELY LINE AND STABILIZE BEFORE ANY DOWNSLOPE GRADING BEGINS (STABILIZATION MUST OCCUR BEFORE ISSUANCE OF A CERTIFICATE OF COMPLIANCE). STABILIZATION METHOD IS BASED ON VELOCITY OF OFFSITE DRAINAGE.
3. DIVERSIONS SHOULD ONLY BE USED FOR DRAINAGES 5 ACRES OR LESS.
4. ANY SEDIMENT LADEN WATER PRIOR TO STABILIZATION OF THE DIVERSION MUST BE DIVERTED INTO AN APPROVED EROSION AND SEDIMENT CONTROL BMP. CLEAN WATER SHOULD EMPTY INTO AN APPROVED OUTLET DEVICE.

MAINTENANCE NOTES:

1. INSPECT AFTER EVERY RAINFALL DURING THE CONSTRUCTION OPERATION.
2. IMMEDIATELY REMOVE ANY OBSTRUCTIONS FROM THE FLOW AREA, AND REPAIR DIVERSION RIDGE.
3. CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.
4. MAINTAIN THE VEGETATION IN A VIGOROUS, HEALTHY CONDITION AT ALL TIMES.

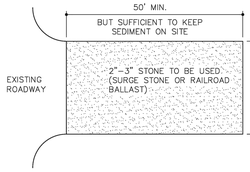


CROSS SECTIONAL VIEW

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

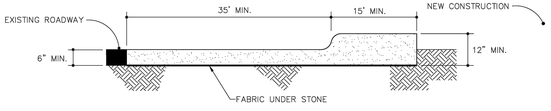
STANDARD CLEAN WATER DIVERSION



PLAN VIEW

NOTES:
1. INSTALL SILT FENCE OR TREE PROTECTION FENCE TO ENSURE CONSTRUCTION ENTRANCE IS USED BY VEHICLES.
2. IF MUD IS NOT REMOVED FROM TIRES AFTER VEHICLE TRAVELS OVER STONE, THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE ENTERING PUBLIC ROADS.I

MAINTENANCE NOTES:
1. THE GRAVEL CONSTRUCTION ENTRANCE MUST BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO ADJACENT ROADWAYS.
2. REPLACEMENT OF STONE MAY BE NECESSARY TO ENSURE THE GRAVEL ENTRANCE FUNCTIONS PROPERLY.
3. REPLENISHMENT OF STONE MAY BE NECESSARY.
4. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE SHOULD BE COMPLETED.
5. ANY MATERIAL TRACKED ONTO THE ROADWAY SHALL BE CLEANED UP IMMEDIATELY.

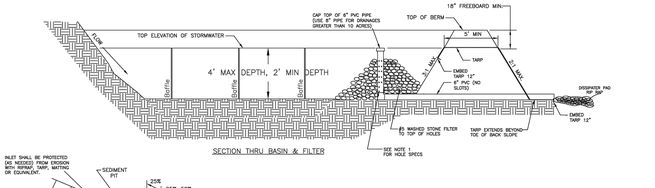


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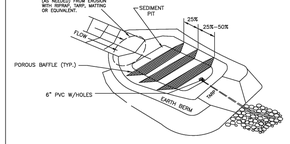
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

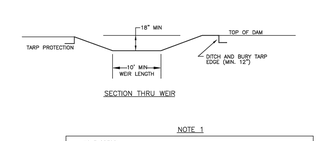
STANDARD CONSTRUCTION ENTRANCE



SECTION THRU BASIN & FILTER



PERSPECTIVE VIEW



SECTION THRU WEIR

GENERAL NOTES

1. DRAW DOWN RISER & BARREL SHALL BE 6" SCH. 40 PVC WITH CLEAN-OUT CAP AND 3/4" HOLES. SEE NOTE 1 FOR NUMBER AND SPACING OF HOLES.
2. THE TARP USED TO PROTECT THE WEIR SHALL BE THICK SPECIFIED. LENGTH OF THE TARP SHALL BE ACCORDINGLY TO ENSURE ADEQUATE PROTECTION. WHERE TO BE USED, THEN TARPS SHALL BE OVERLAPPED AT LEAST 12". THE UPSTREAM 12' TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 50 MIL. HEAVY DUTY SILVER TARPAULINS OR EQUIVALENT FROM U.V. RESISTANCE.

MAINTENANCE NOTES

1. INSPECT WEEKLY AND AFTER EVERY 1" OR GREATER RAINFALL.
2. REMOVE SEDIMENT AND PROPERLY DISPOSED OF WHEN BASIN IS HALF FULL.
3. WHEN DEWATERING AROUND RISER SHOULD BE REPLACED AS NEEDED TO ENSURE DEWATERING.
4. CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING.
5. ANY RIP RAP DISPLACED FROM DISSIPATER PAD MUST BE REPLACED IMMEDIATELY.

NOTE 1

HOLE SPECS:

DEWATERING HOLES WILL BE INSTALLED IN SETS OF HORIZONTAL RINGS. THE FIRST SET OF HOLES WILL BE SET 6 INCHES FROM THE BOTTOM OF THE RISER. RINGS WILL CONTINUE UP THE RISER IN INTERVALS OF 3 INCHES. HOLES WILL BE 3/4 INCH IN DIAMETER AND WILL BE SPACED EQUALLY AROUND THE RISER. THE NUMBER OF HOLES PER RING WILL EQUAL TO THE DRAINAGE AREA.

EXAMPLE

A BASIN DRAINING 2.0 ACRES SHOULD HAVE 2 HOLES PER RING EVERY 3 INCHES ON THE RISER PIPE. THE FIRST RING (2 HOLES) WILL BE SET 6 INCHES FROM THE BOTTOM OF THE RISER.

NOTE: ROUND DRAINAGE AREA TO THE NEAREST WHOLE NUMBER TO DETERMINE NUMBER OF HOLES.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

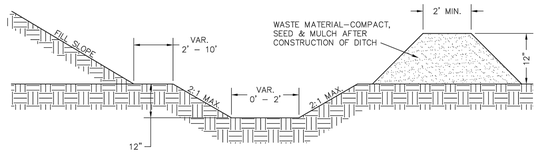
STANDARD CUSTOM BASIN

NOTES:

1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

MAINTENANCE NOTES:

1. INSPECT ONCE A WEEK AND AFTER EVERY 1" RAINFALL.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.
5. AFTER DRAINAGE AREA IS PERMANENTLY STABILIZED, PLACE WASTE MATERIAL IN DITCH TO BLEND WITH NATURAL GROUND AND STABILIZE.

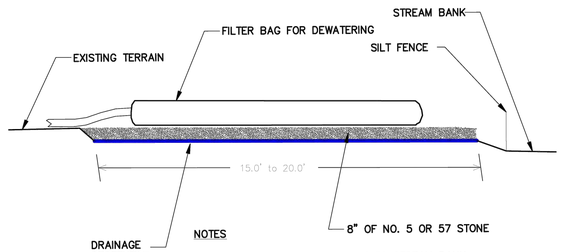


CROSS SECTIONAL VIEW

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD TEMPORARY DIVERSION DITCH



NOTES

1. PROVIDE STABILIZED OUTLET TO STREAM BANK.
2. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

MAINTENANCE NOTES

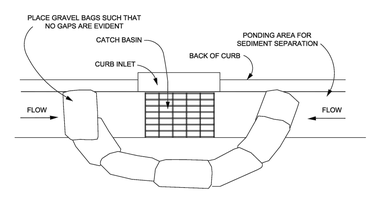
1. REPLACE AND DISPOSE OF FILTER BAG(S) WHEN IT IS ¾ FULL OF SEDIMENT OR WHEN IT IS IMPRCTICAL FOR BAG TO FILTER SEDIMENT.
2. PROVIDE A SUFFICEINT QUANTITY OF FILTER BAGS TO CONTAIN SILT FROM PUMPED EFFLUENT.

NOT TO SCALE

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

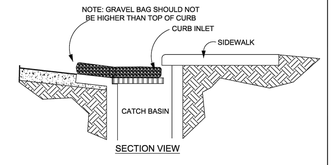
STANDARD FILTER BAG FOR DEWATERING ACTIVITIES



PLAN VIEW

NOTES:
1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH ¾ INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. WHEN INSTALLING CURB INLET PROTECTION DEVICES, **NEVER** BLOCK THE CURB INLET.

MAINTENANCE NOTES:
1. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT (1 INCH OR GREATER). SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.



SECTION VIEW

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD GRAVEL BAG CURB INLET PROTECTION

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL

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305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

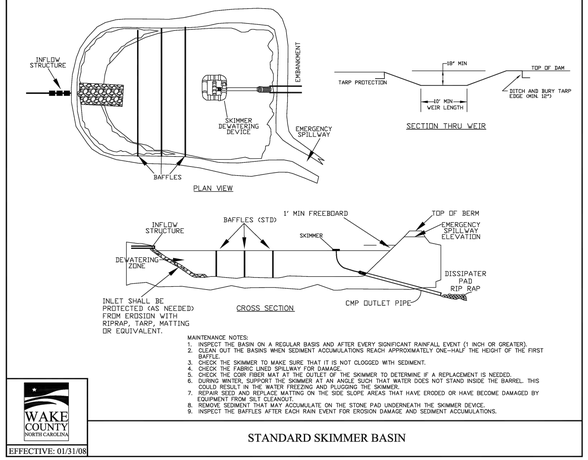
EROSION CONTROL PLAN DETAILS

DRAWING SHEET

D-6.1

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THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.



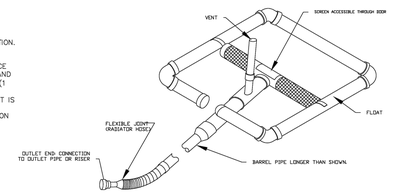
MAINTENANCE NOTES:
1. INSPECT THE BASIN ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER).
2. CLEAN OUT THE BASINS WHEN SEDIMENT ACCUMULATIONS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE FIRST BAFFLE.
3. CHECK THE SKIMMER TO MAKE SURE THAT IT IS NOT CLOGGED WITH SEDIMENT.
4. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE.
5. CHECK THE COIR FIBER MAT AT THE OUTLET OF THE SKIMMER TO DETERMINE IF A REPLACEMENT IS NEEDED.
6. DURING WINTER, SUPPORT THE SKIMMER AT AN ANGLE SUCH THAT WATER DOES NOT STAND INSIDE THE BARREL. THIS SHOULD PREVENT ICE FREEZING AND PLUGGING THE SKIMMER.
7. REPAIR SEED AND REPLACE MATTING ON THE SIDE SLOPE AREAS THAT HAVE ERODED OR HAVE BECOME DAMAGED BY EQUIPMENT FROM SILT CLEANOUT.
8. REMOVE SEDIMENT THAT MAY ACCUMULATE ON THE STONE PAD UNDERNEATH THE SKIMMER DEVICE.
9. INSPECT THE BAFFLES AFTER EACH RAIN EVENT FOR EROSION DAMAGE AND SEDIMENT ACCUMULATIONS.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SKIMMER BASIN

MAINTENANCE NOTES:
1. INSTALL A PAD FOR SKIMMER TO REST ON STONE OR WOOD PALLETS OR H-BEAM SECTION.
2. INSTALL SKIMMER AND PAD AWAY FROM BAFFLES.
3. ATTACH ROPE TO SKIMMER FOR MAINTENANCE.
4. INSPECT THE BASIN ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER).
5. CHECK THE SKIMMER TO MAKE SURE THAT IT IS NOT CLOGGED WITH SEDIMENT.
6. REMOVE SEDIMENT THAT MAY ACCUMULATE ON THE STONE PAD UNDERNEATH THE SKIMMER DEVICE.

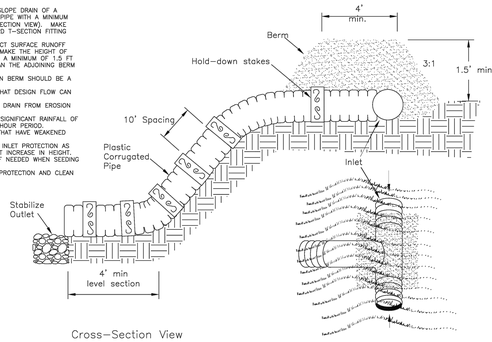


WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SKIMMER DETAIL

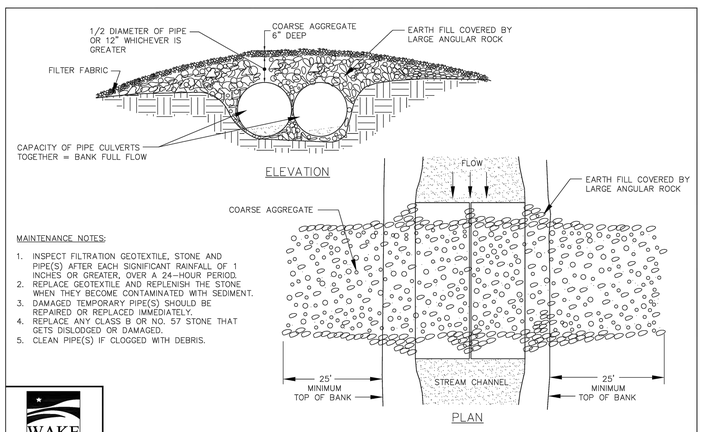
MAINTENANCE NOTES:
1. CONSTRUCT THE ENTRANCE TO THE SLOPE DRAIN OF A STANDARD FLARED-END SECTION OF PIPE WITH A MINIMUM 6-INCH METAL TOE PLATE (CROSS-SECTION VIEW). MAKE ALL FITTINGS WATERTIGHT. A STANDARD T-SECTION FITTING MAY ALSO BE USED AT THE INLET.
2. USE AN EARTHEN DIVERSION TO DIRECT SURFACE RUNOFF INTO THE TEMPORARY SLOPE DRAIN. MAKE THE HEIGHT OF THE BERM OVER THE DRAIN CONDUIT A MINIMUM OF 1.5 FT AND AT LEAST 6 INCHES HIGHER THAN THE ADJOINING BERM ON EITHER SIDE.
3. THE LOWEST POINT OF THE DIVERSION BERM SHOULD BE A MINIMUM OF 1 FT.
4. ABOVE THE TOP OF THE DRAIN SO THAT DESIGN FLOW CAN FREELY ENTER THE PIPE.
5. PROTECT THE OUTLET OF THE SLOPE DRAIN FROM EROSION WITH RIPRAP DISSIPATOR.
6. INSPECT SLOPE DRAINS AFTER EACH SIGNIFICANT RAINFALL OF 1 INCHES OR GREATER, OVER A 24-HOUR PERIOD.
7. REBUILD EARTH BERMS AND INLETS THAT HAVE WEAKENED OR BREACHED.
8. EXTEND SLOPE DRAINS AND REBUILD INLET PROTECTION AS SLOPE IS BUILT, AFTER EACH 2-FOOT INCREASE IN HEIGHT.
9. REBUILD OR REPAIR SLOPE DRAINS IF NEEDED WHEN SEEDING AND MULCHING IS PERFORMED.
10. REFURBISH CLASS B STONE OUTLET PROTECTION AND CLEAN AS NEEDED.



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD TEMPORARY SLOPE DRAIN



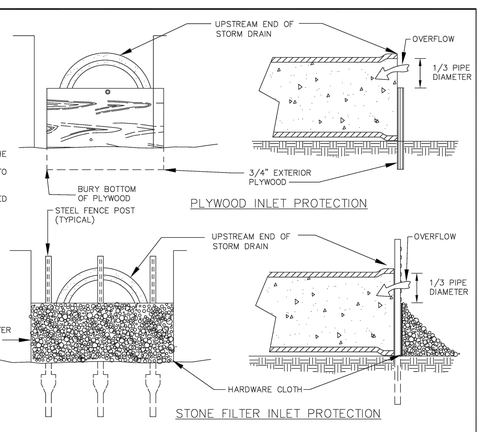
MAINTENANCE NOTES:
1. INSPECT FILTRATION GEOTEXTILE, STONE AND PIPE(S) AFTER EACH SIGNIFICANT RAINFALL OF 1 INCHES OR GREATER, OVER A 24-HOUR PERIOD.
2. REPLACE GEOTEXTILE AND REPLENISH THE STONE WHEN THEY BECOME CONTAMINATED WITH SEDIMENT.
3. DAMAGED TEMPORARY PIPE(S) SHOULD BE REPAIRED OR REPLACED IMMEDIATELY.
4. REPLACE ANY CLASS B OR NO. 57 STONE THAT GETS DISLODGED OR DAMAGED.
5. CLEAN PIPE(S) IF CLOGGED WITH DEBRIS.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD TEMPORARY STREAM CROSSING

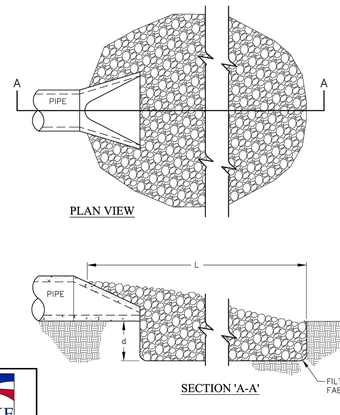
MAINTENANCE NOTES:
1. INSPECT THE DEVICE AFTER1 INCHES OR GREATER, OVER A 24-HOUR PERIOD FOR DAMAGE, SEDIMENT ACCUMULATION AND PROPER FUNCTION.
2. REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE BASIN AREA FORMED BY THE DEVICE.
3. REPLACE THE WASHED STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE BETWEEN RAINFALL EVENTS.
4. CLEAN OUT THE DEVICE WHEN IT IS CLOGGED WITH DEBRIS.
5. CHECK PLYWOOD IF DAMAGED. REPLACE IF NEEDED.
6. IF THE DEVICE IS TO REMAIN ON THE PROJECT AT THE COMPLETION OF CONSTRUCTION ACTIVITIES, THE DEVICE SHOULD BE CLEAN AND IN PROPER SHAPE AT THE TIME OF FINAL INSPECTION. IF IT IS REMOVED, ALL ACCUMULATED SILT SHOULD BE REMOVED AND THE AREA SEEDED.



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD PIPE INLET PROTECTION (PLYWOOD & STONE)



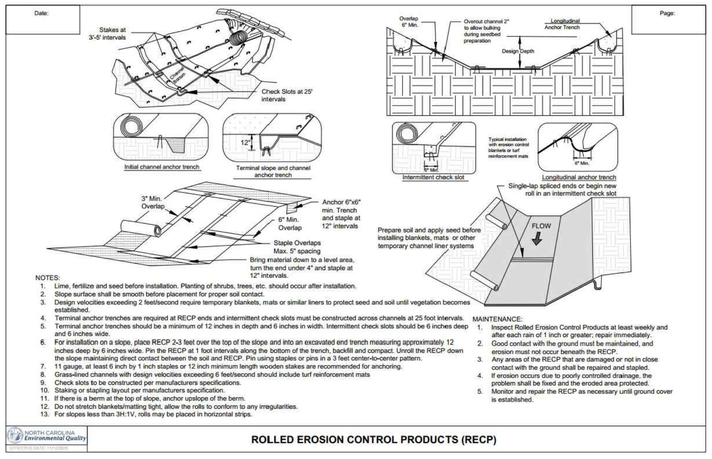
NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" (INCHES) ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

MAINTENANCE NOTES:
1. INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD PIPE OUTLET TO WELL-DEFINED CHANNEL



NOTES:
1. Lime, fertilize and seed before installation. Planting of shrubs, trees, etc. should occur after installation.
2. Slope surface shall be smooth before placement for proper soil contact.
3. Design velocities exceeding 2 feet/second require temporary blankets, mats or similar liners to protect seed and soil until vegetation becomes established.
4. Terminal anchor trenches are required at RECP ends and intermittent check slots must be constructed across channels at 25 foot intervals.
5. Terminal anchor trenches should be a minimum of 12 inches in depth and 6 inches in width. Intermittent check slots should be 6 inches deep and 6 inches wide.
6. For installation on a slope, place RECP 2-3 feet over the top of the slope and into an excavated end trench measuring approximately 12 inches deep by 6 inches wide. Pin the RECP at 1 foot intervals along the bottom of the trench, backfill and compact. Unroll the RECP down the slope maintaining direct contact between the soil and RECP. Pin using staples or pins in a 3 feet-center-to-center pattern.
7. 11 gauge, at least 6 inch by 1 inch staples or 12 inch minimum length wooden stakes are recommended for anchoring.
8. Grass-lined channels with design velocities exceeding 6 feet/second should include turf reinforcement mats
9. Check slots to be constructed per manufacturers specifications.
10. Staking or stapling layout per manufacturers specification.
11. If there is a berm at the top of slope, anchor upslope of the berm.
12. Do not stretch blankets/matting tight, allow the rolls to conform to any irregularities.
13. For slopes less than 3H:1V, rolls may be placed in horizontal strips.

MAINTENANCE:
1. Inspect Rolled Erosion Control Products at least weekly and after each rain of 1 inch or greater; repair immediately.
2. Good contact with the ground must be maintained, and erosion must not occur beneath the RECP.
3. Any areas of the RECP that are damaged or not in close contact with the ground shall be repaired and stapled.
4. If erosion occurs due to poorly controlled drainage, the problem shall be fixed and the eroded area protected.
5. Monitor and repair the RECP as necessary until ground cover is established.

NORTH CAROLINA Environmental Quality

ROLLED EROSION CONTROL PRODUCTS (RECP)

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2165
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

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CONSTRUCTION PLANS

EROSION CONTROL PLAN DETAILS

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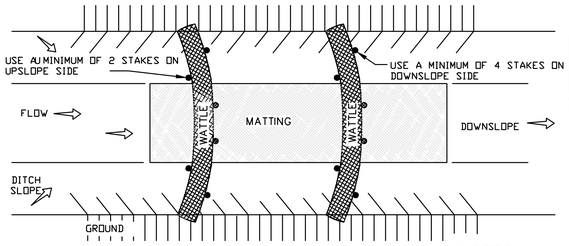
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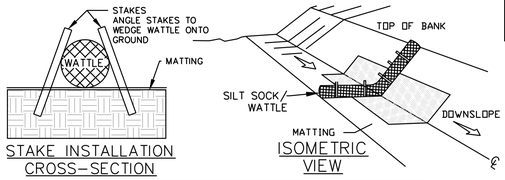
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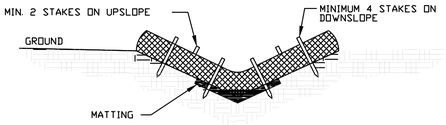
PLAN VIEW



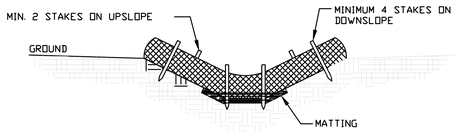
STAKE INSTALLATION CROSS-SECTION

ISOMETRIC VIEW

Ditch Spacing For 12 Inch Silt Sock/Wattle	
Channel Slope (%)	Space Between Silt Socks/ Wattles (Feet)
1	100
2	50
3	33
4	25
5	20



V-DITCH SECTION VIEW

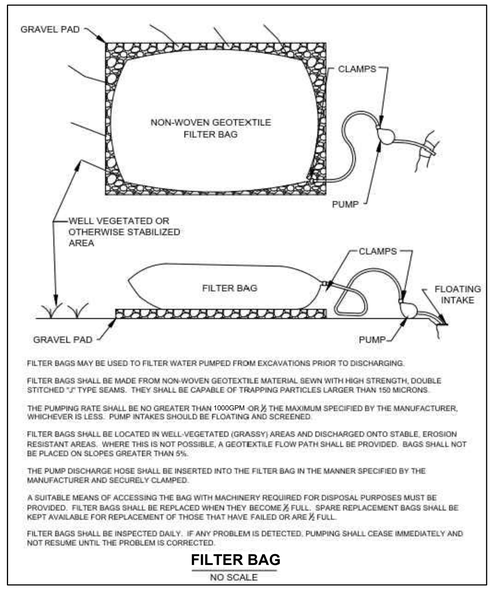


TRAPEZOIDAL DITCH SECTION VIEW

NOTES:
1. Other materials providing equivalent protection against erosive velocities may be substituted for use in silt socks or wattles.
2. Use a minimum 12 inch diameter silt sock/wattle.
3. Fill silt sock/wattle netting uniformly to the desired length such that logs do not deform.
4. Use 24 inch long wooden stakes with a 2 inch x 2 inch nominal cross section.
5. Install silt sock/wattle(s) to a height on slope so flow will not wash around silt sock/wattle and scour slopes, or as directed.
6. Install a minimum of two upslope stakes and four downslope stakes at an angle to wedge silt sock/wattle to ground at bottom ditch.
7. The use of Polyacrylamide (PAM) is recommended. Apply 2-3 ounces of anionic PAM on top of sock/wattle. Apply 1-2 ounces to matting on either side of sock/wattle. Reapply after each 1.0 inch rainfall.

MAINTENANCE:
1. Inspect silt sock/wattle(s) weekly and after each rain of 1 inch or greater. Remove accumulated sediment and any debris.
2. Silt sock/Wattle(s) must be replaced if clogged or torn.
3. If ponding becomes excessive, the silt sock/wattle may need to be replaced with a larger diameter or a different measure.
4. Reinstall if damaged or dislodged.
5. Silt socks/Wattles shall be inspected until land disturbance is compete and the area above the measure is permanently stabilized.

SILT SOCK / WATTLE FOR CHECK DAM



FILTER BAGS MAY BE USED TO FILTER WATER PUMPED FROM EXCAVATIONS PRIOR TO DISCHARGING.

FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.

THE PUMPING RATE SHALL BE NO GREATER THAN 1000GPM OR ½ THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

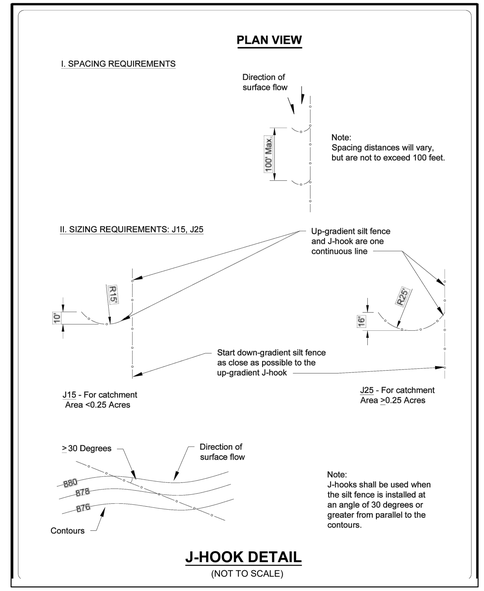
FILTER BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREAS AND DISCHARGED ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE FILTER BAG IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME ½ FULL. SPARE REPLACEMENT BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE ½ FULL.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

FILTER BAG
NO SCALE



J-HOOK DETAIL
(NOT TO SCALE)

J-HOOK MAINTENANCE:

1. INSPECT J-HOOK INSTALLATION AT REGULAR INTERVALS PER NPDES MONITORING REQUIREMENTS.
2. REPLACE TORN SILT FENCE FABRIC WITH NEW FENCE MATERIAL.
3. BENT OR BROKEN WIRES AND T-POLES SHALL BE REPLACED IMMEDIATELY.
4. SEDIMENT ACCUMULATION HIGHER THAN 1/3 OF INSTALLED HEIGHT OF FABRIC SHALL BE PROMPTLY REMOVED.

DATE:

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10 feet 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.

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers. • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• 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 with mulch • 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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants.*
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

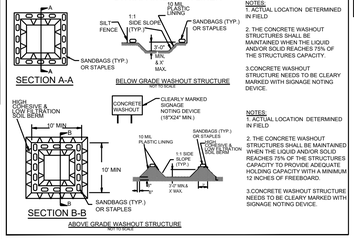
EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

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.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

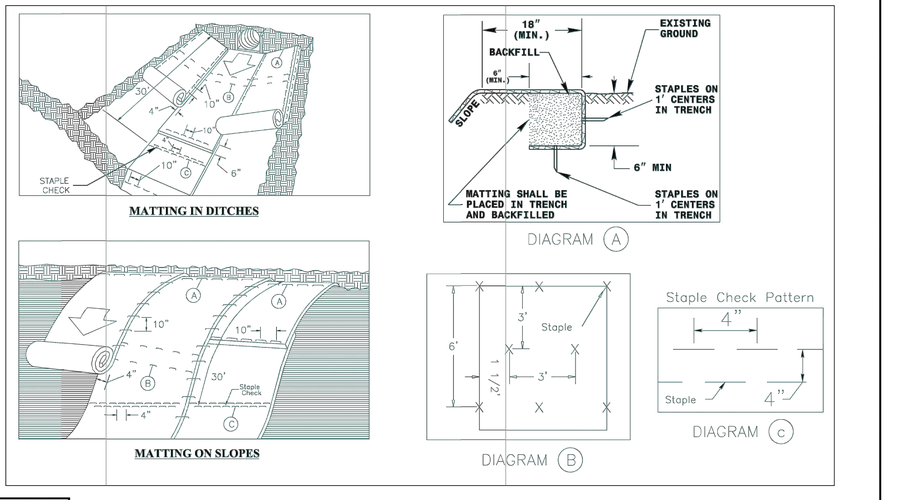
CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional corrals may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. 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.

NCG-01 GROUND COVER & MATERIALS HANDLING



WAKE COUNTY NORTH CAROLINA

REVISED: 1/2/2020

ROLLED EROSION CONTROL PRODUCT INSTALLATION DETAIL

A-10

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM
STRONG ROCK ENGINEERING GROUP
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609

STRONG ROCK PROJECT PSP-23-03	NOT FOR CONSTRUCTION	SCALE	AS SHOWN	DESIGNED BY	SRG	DRAWN BY	SRG	CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

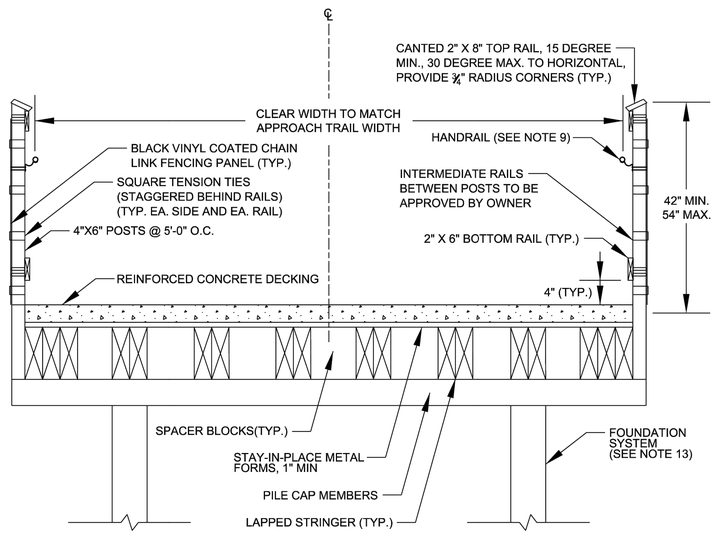
EROSION CONTROL PLAN DETAILS

DRAWING SHEET

D-6.3

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THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.



TYPICAL BOARDWALK SECTION

NOTES:

1. BOARDWALK DECK IS TO BE CAST-IN-PLACE REINFORCED CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. THE REINFORCING STEEL IN THE CAST-IN-PLACE CONCRETE BOARDWALK DECK SHALL BE EPOXY COATED GRADE 60.
3. CONCRETE DECKING CROSS SLOPE SHALL MATCH CROSS SLOPE OF TRAIL ON BOTH APPROACHES TO FACILITATE POSITIVE DRAINAGE AND PREVENT PONDING.
4. STAY-IN-PLACE METAL FORMS SHALL BE PROVIDED TO FACILITATE REINFORCED CONCRETE DECK CONSTRUCTION.
5. STAY-IN-PLACE METAL FORMS SHALL BE ATTACHED TO LONGITUDINAL TIMBER JOISTS USING AN APPROVED METHOD. ALL SCREWS AND OTHER HARDWARE USED SHALL BE GALVANIZED.
6. ALL OTHER HARDWARE (NUTS, WASHERS, BOLTS, ETC.) SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
7. TOP RAIL AND OTHER CONNECTIONS SHALL BE MADE WITH WOOD SCREW; NAILED CONNECTIONS WILL NOT BE ACCEPTABLE.
8. THE MINIMUM HEIGHT OF BRIDGE/BOARDWALK RAILING SHALL BE 42", UNLESS OTHERWISE NOTED. THE HEIGHT CAN RANGE BETWEEN 42", 48", OR 54".
9. A GRIP-ABLE, ROUND RAIL THAT WILL ACT AS BOTH A RUB RAIL AND HANDRAIL SHALL ONLY BE REQUIRED WHEN GRADES ARE GREATER THAN 5%. REFER TO DETAIL GW-30.04 FOR BRIDGE OR BOARDWALK RUB RAIL/HANDRAIL ATTACHMENT.
10. BLACK VINYL COATED CHAIN LINK FENCE AND TENSION TIES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
11. ALL TIMBER BOARDWALK COMPONENTS AND REINFORCED CONCRETE DECK SHALL DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AASHTO LRFD GUIDE SPECIFICATIONS FOR PEDESTRIAN BRIDGES.
12. SPAN LENGTHS, JOIST SPACING, SIZING OF MEMBERS, REINFORCED CONCRETE DECK, AND OTHER DESIGN SPECIFICS SHALL BE DETERMINED BY THE ENGINEER ON A PROJECT SPECIFIC BASIS.
13. FOUNDATION SHALL CONSIST OF DRIVEN PILES, AUGURED PILES, HELICAL PIERS, OR OTHER APPLIED FOUNDATION SYSTEM. SPECIFICS SUCH AS NUMBER OF PILES, SPACING, AND HEIGHT SHALL BE DETERMINED BY ENGINEER ON A PROJECT SPECIFIC BASIS BASED ON REQUIRED LOADING.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 12/2022	NOT TO SCALE
	TYPICAL BOARDWALK SECTION	
	GW-30.01	

SEEDING SPECIFICATIONS:

SEEDBED PREPARATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSESOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, REESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT WAKE COUNTY SOIL & WATER OR NC STATE COOPERATIVE EXTENSION ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

MIXTURE:

AGRICULTURAL LIMESTONE	2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)
FERTILIZER	1,000 LBS/ACRE - 10-10-10
SUPERPHOSPHATE	500 LBS/ACRE - 20% ANALYSIS
MULCH	2 TONS/ACRE - SMALL GRAIN STRAW
ANCHOR	ASPHALT EMULSION AT 400 GALS/ACRE

SEEDING SCHEDULE:

FOR SHOULDERS, SIDE DITCHES. SLOPES (MAX 3:1):

DATE	TYPE	PLANTING RATE
AUG 15-NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1-MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE
MAR 1-APR 15	TALL FESCUE	300 LBS/ACRE
APR 15-JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1-AUG 15	TALL FESCUE AND BROWNTOP MILLET OR SORGHUM-SUDAN HYBRIDS***	125 LBS/ACRE (TALL FESCUE); 35 LBS/ACRE (BROWNTOP MILLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)

FOR SHOULDERS, SIDE DITCHES. SLOPES (MAX 3:1 TO 2:1):

DATE	TYPE	PLANTING RATE
MAR 1-JUN 1	SERICEA LESPEDEZA (SCARIFIED) AND USE THE FOLLOWING COMBINATIONS:	50 LBS/ACRE (SERICEA LESPEDEZA);
MAR 1-APR 15	ADD TALL FESCUE	120 LBS/ACRE
MAR 1-JUN 30	OR ADD WEEPING LOVE GRASS	10 LBS/ACRE
MAR 1-JUN 30	OR ADD HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1-SEPT 1	TALL FESCUE AND BROWNTOP MULLET OR SORGHUM-SUDAN HYBRIDS***	120 LBS/ACRE (TALL FESCUE); 35 LBS/ACRE (BROWNTOP MULLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)
SEPT 1-MAR 1	SERICEA LESPEDEZA (UNHULLED -UNSCARIFIED) AND TALL FESCUE	70 LBS/ACRE (SERICEA LESPEDEZA); 120 LBS/ACRE (TALL FESCUE)
NOV 1-MAR 1	AND ABRUZZI RYE	25 IBS/ACRE

CONSULT WAKE COUNTY SOIL & WATER CONSERVATION DISTRICT OR NC STATE COOPERATIVE EXTENSION FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY:
RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.

WAKE COUNTY NORTH CAROLINA
Environmental Services
tel: 919 856 7400
fax: 919 743 4772
Sedimentation & Erosion Control
336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602

Effective September 1, 2008
Soil stockpiles shall be located on the approved plan and shall adhere to the following requirements:

Design Criteria

a. A 25-foot temporary maintenance and access easement shall be shown around all proposed stockpiles (erosion control measures surrounding the stockpile shall be shown at the outer limit of this easement).
b. Stockpile footprints shall be setback a minimum of 25' from adjacent property lines.
c. A note shall be provided on the approved plan that stockpile height shall not exceed 35 feet.
d. Stockpile slopes shall be 2:1 or flatter.
e. Approved BMPs shall be shown on a plan to control any potential sediment loss from a stockpile.
f. Stockpiling materials adjacent to a ditch, drainageway, watercourse, wetland, stream buffer, or other body of water shall be avoided unless an alternative location is demonstrated to be unavailable.
g. Any concentrated flow likely to affect the stockpile shall be diverted to an approved BMP.
h. Off-site spoil or borrow areas must be in compliance with Wake County UDO and State Regulations. All spoil areas over an acre are required to have an approved sediment control plan. Developer/Contractor shall notify Wake County of any offsite disposal of soil, prior to disposal. Fill of FEMA Floodways and Non-encroachment Areas are prohibited except as otherwise provided by subsection 14-19-2 of the Wake County Unified Development Ordinance (certifications and permits required).

Maintenance Requirements to be Noted on the Plan

i. Seeding or covering stockpiles with tarps or mulch is required and will reduce erosion problems. Tarps should be keyed in at the top of the slope to keep water from running underneath the plastic.
j. If a stockpile is to remain for future use after the project is complete (builders, etc.), the financial responsible party must notify Wake County of a new responsible party for that stockpile.
k. The approved plan shall provide for the use of staged seeding and mulching on a continual basis while the stockpile is in use.
l. Establish and maintain a vegetative buffer at the toe of the slope (where practical).

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 drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(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 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 include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

No.	REVISIONS	DATE	BY
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05	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SREG

SEAL:

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
EROSION CONTROL PLAN DETAILS

DRAWING SHEET
D-6.4

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THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• 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 with mulch • 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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

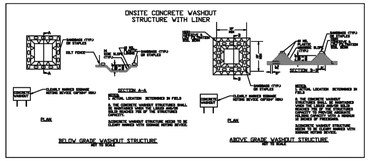
PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA Environmental Quality



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. 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.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING | EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetbnd has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part II, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

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. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the 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. 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.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

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 period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(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.
(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.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment(40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA Environmental Quality

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 drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(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 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 include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING | EFFECTIVE: 04/01/19

THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

No.	REVISIONS	DATE	BY
01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SREG
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SREG
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SREG
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SREG
05	TOWN OF ROLESVILLE CID-24-04 V5	08/02/2025	SREG

SEAL

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
305 CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUP.COM

STRONG ROCK PROJECT	PSP-23-03
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	SRG
DRAWN BY	SRG
CHECKED BY	SRG

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

EROSION CONTROL PLAN DETAILS

DRAWING SHEET
D-6.5