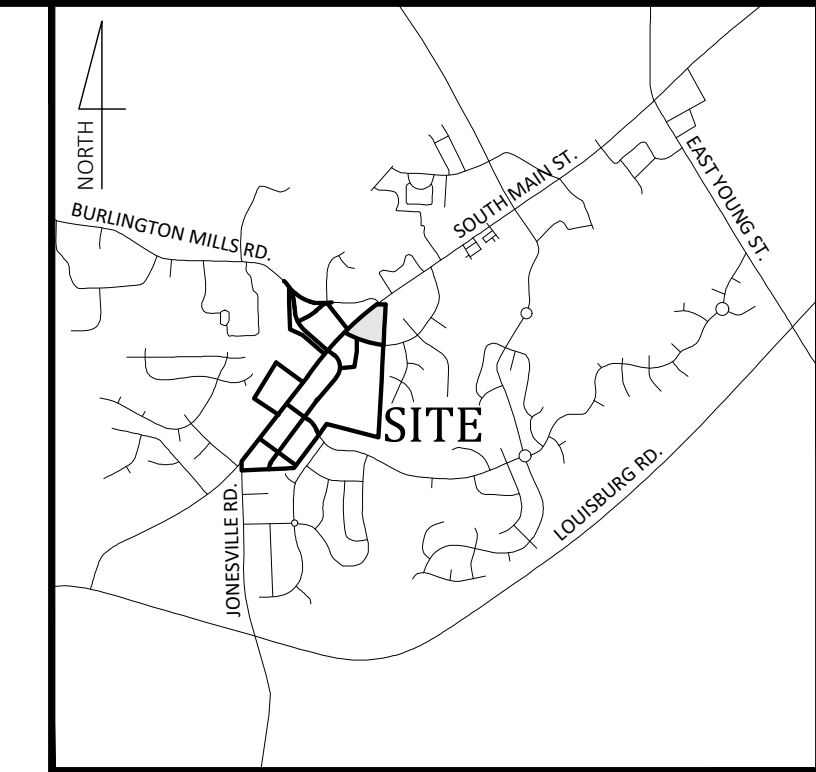


MASS GRADING / EROSION CONTROL WALLBROOK - Lot 8

S. Main St. / US-401 Business & Wall Creek Drive, Town of Rolesville, Wake County, North Carolina

Project No.: CID 24-__

Please add the project number (CID-24-02)



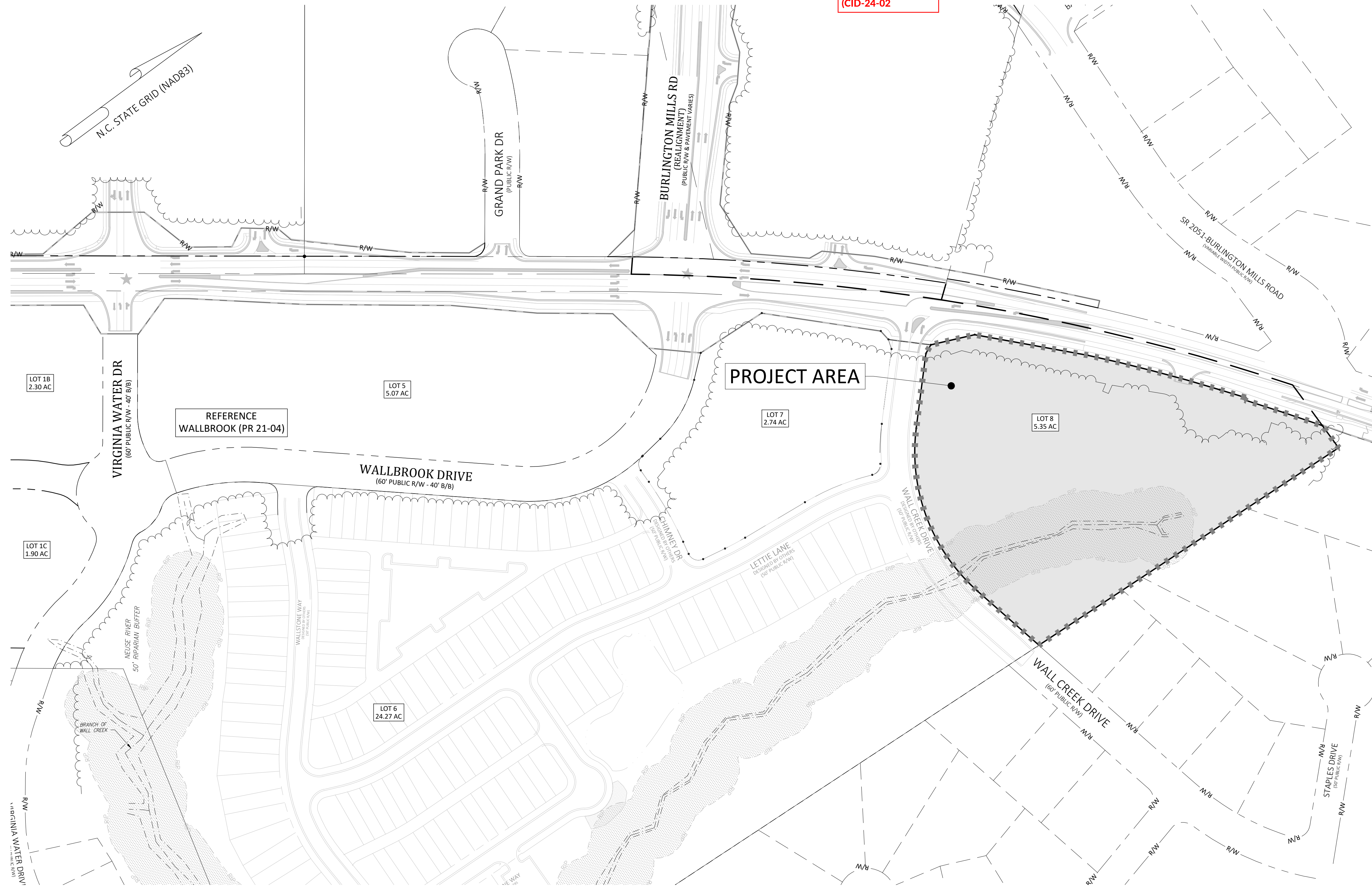
Vicinity Map
NOT TO SCALE

- Final Drawing -
Issued for Permit
Review Purposes Only

REVISIONS:



V1 -
CID-24-03



Sheet Index

#	Title
△ C0.1	Cover
△ C0.2	Existing Conditions & Demolition Plan
△ C1.0	Erosion Control Notes & Legend
△ C1.1	Erosion Control Phase 1
△ C1.2	Erosion Control Phase 2 & Mass Grading Plan
△ C2.1	Details
△ C2.2	Details
REF	Survey - Johnson, Mirmiran & Thompson (4 Sheets)
REF	Tree Preservation Plan - PR-21-04 REVISED (1 Sheet)

Site Data

PIN NUMBERS:	1758-67-1871
REAL ESTATE ID:	0509438
CURRENT ZONING:	GC-C2
ACREAGE IN PARCEL:	5.35 ACRES
ACREAGE IN PUBLIC R/W:	0.00 ACRES
TOTAL ACREAGE DISTURBED:	2.80 ACRES
WATERSHED:	Lower Neuse
RIVER BASIN:	Neuse
CURRENT USE:	VACANT / WOODED
EXISTING IMPERVIOUS:	0 SF
PROPOSED IMPERVIOUS:	0 SF
PROPOSED USE(S):	NON-RESIDENTIAL/COMMERCIAL/RETAIL
LOTS IN DEVELOPMENT:	LOT 8
REFERENCES:	DB 018103 PG 01563 BM2023 PG 01602

Owner/Developer

Wallbrook Landco, LLC
3 Keel St, Ste 2
Wrightsville Beach, NC

Engineer

Ark Consulting Group, PLLC
31970
Greenville, NC
Contact: Bryan C. Fagundus, PE

COVER
WALLBROOK - LOT 8
MASS GRADING / EROSION CONTROL
Town of Rolesville Project No. CID 24-__
Rolesville, Wake County, North Carolina



EROSION AND SEDIMENT CONTROL

APPROVED PLAN
DATE _____
PERMIT NO. S-_____
Wake County Environmental Services
Sedimentation & Erosion Control
919-856-7400



Project Manager: BCF
Drawn By: DLC
Checked By: TN
Project Number: 21089
Drawing Number: D-1472

C0.1

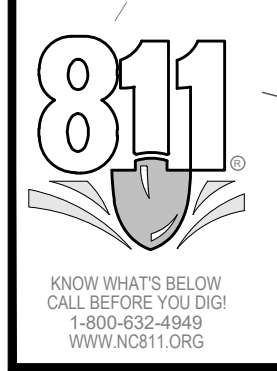
Date: April 1, 2024



100' 0 50' 100'
SCALE 1 inch = 100 ft



ENVIRONMENTAL CONSULTANT SIGNATURE



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Review Purposes Only

REVISIONS:

#	DATE	ISSUED FOR INITIAL REVIEW	DESCRIPTION
1	1.14.2024		

CROSLAND
SOUTHEAST

EXISTING CONDITIONS & DEMOLITION PLAN

WALLBROOK - LOT 8

MASS GRADING / EROSION CONTROL

Town of Rolesville Project No. CID 24-___

Rolesville, Wake County, North Carolina

S Main St. / US-401 Business & Wall Creek Drive

Map 21, 2024 @ 1/4" = 1" H

NC License: P-1109
2755-B Charles Blvd
Charlotte, NC 28205
(754) 558-0888
www.arkconsultinggroup.com

RODERICK BLACKWELL &
CHRISTINE BLACKWELL
DB 8163 PG 1894
LOT 101
ZONED R & PUD
BM 1997 PG 1162
PIN# 1758-67-4658
RESIDENTIAL

Project Manager:

BCF

Drawn By:

DLC

Checked By:

TN

Project Number:

21089

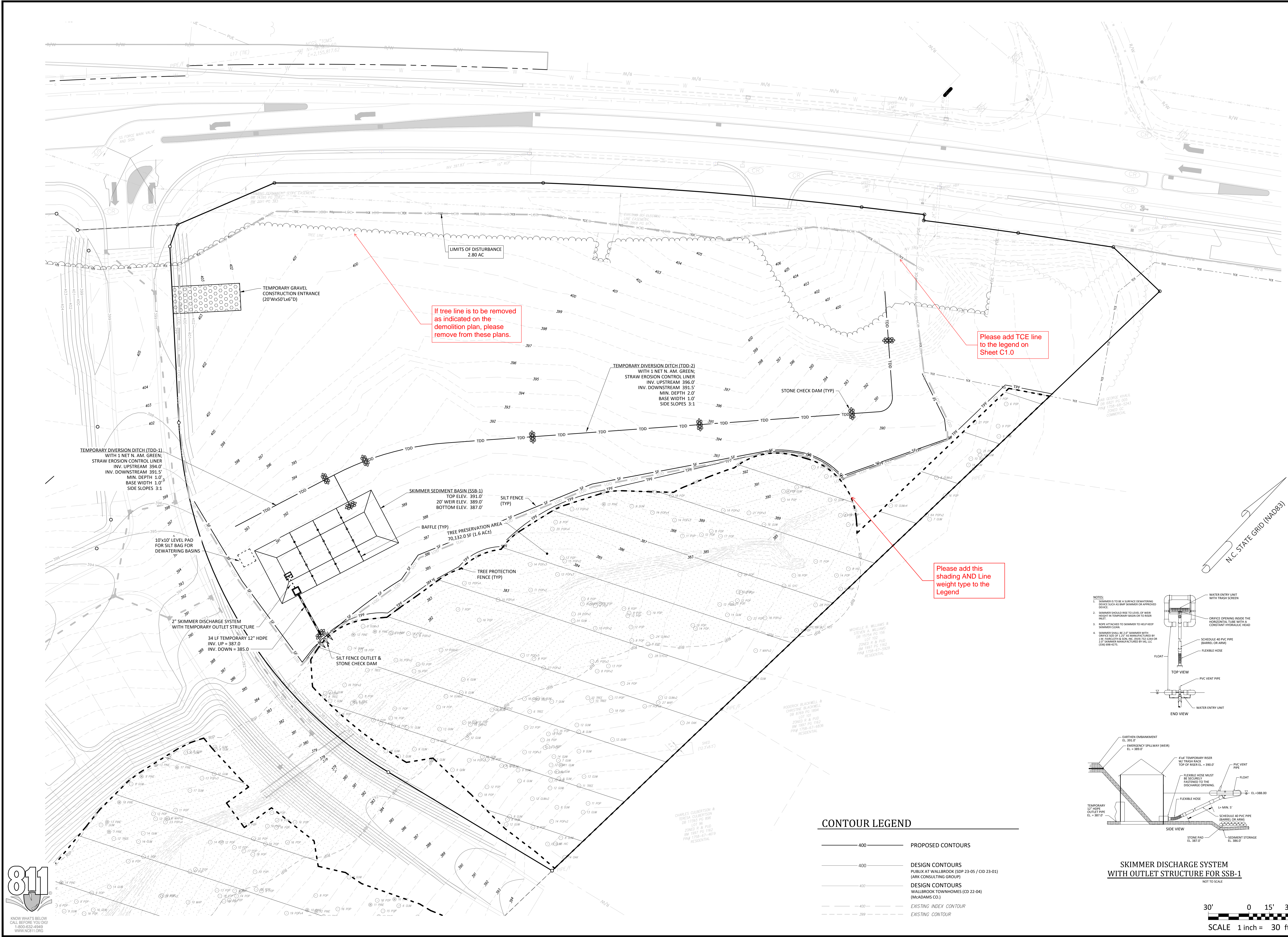
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D-1472

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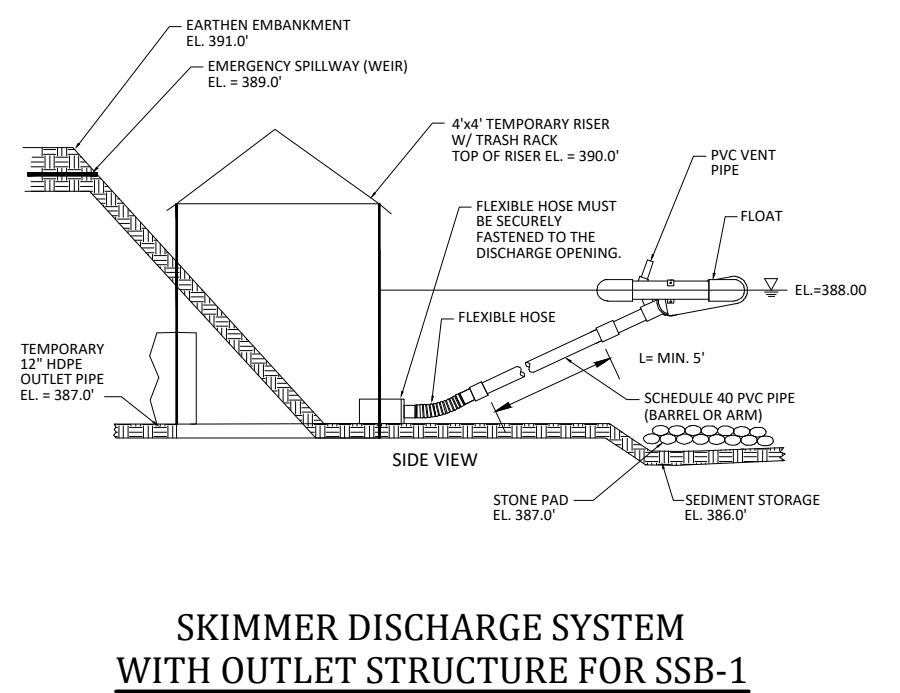
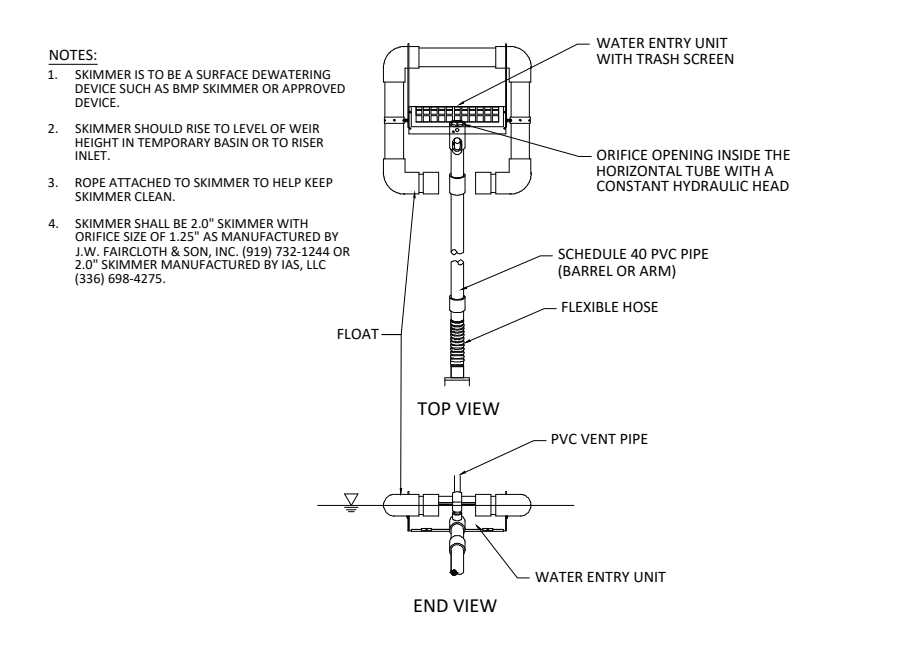
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April 1, 2024



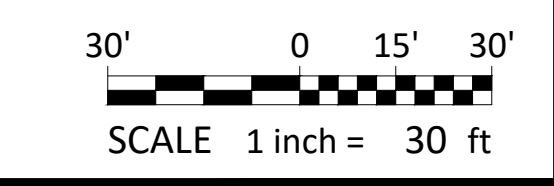
Please add TCE line to the legend on Sheet C1.0

Please add this shading AND Line weight type to the Legend



CONTOUR LEGEND

— 400 —	PROPOSED CONTOURS
— 400 —	DESIGN CONTOURS PUBLIC AT WALLBROOK (SDP 23-05 / CID 23-01) (ARK CONSULTING GROUP)
— 400 —	DESIGN CONTOURS WALLBROOK TOWNHOMES (CD 22-04) (MCADAMS CO.)
- - - 400 - - -	EXISTING INDEX CONTOUR
- - - 399 - - -	EXISTING CONTOUR



- Final Drawing -
Issued for Permit
Review Purposes Only

ISSUED FOR INITIAL REVIEW
DATE: 1.11.2024

REVISIONS:

CROSLAND SOUTHEAST

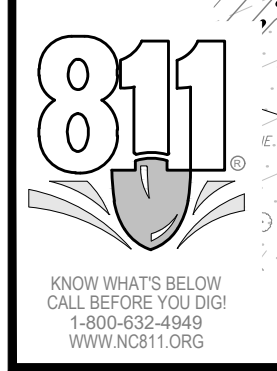
EROSION CONTROL PHASE 1
WALLBROOK - LOT 8
MASS GRADING / EROSION CONTROL
Town of Rolesville Project No. CID 24-
Rolesville, Wake County, North Carolina

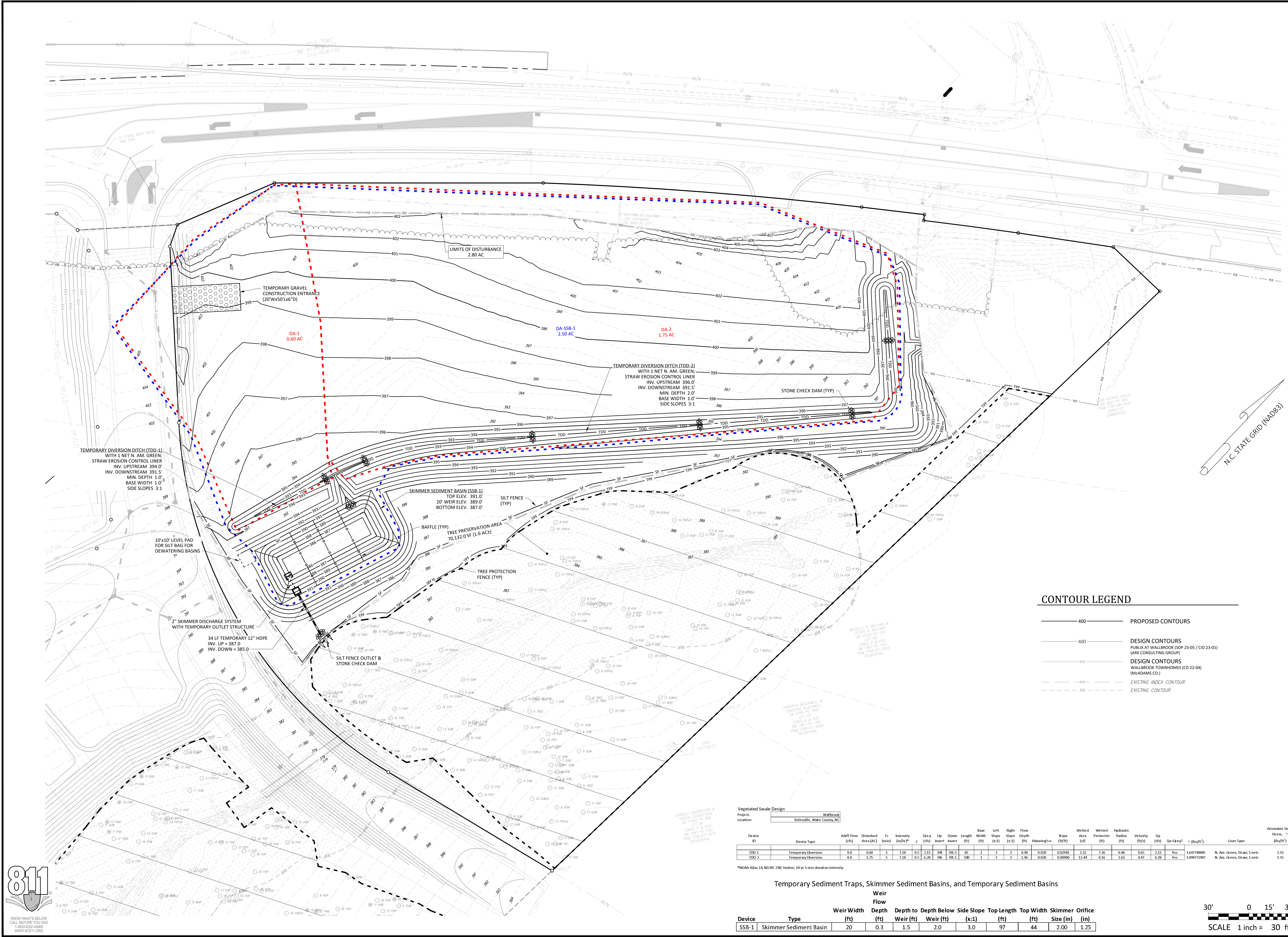
NC License: P-1199
ARK CONSULTING GROUP PLLC
ENGINEERS & PLANNERS
2755-B Charles Blvd
Raleigh, NC 27608
(757) 558-0888
www.arkconsultinggroup.com

SEAL: CHARLES F. ABUNDIO, P.E., 31970, 4/11/2024

Project Manager: BCF
Drawn By: DLC
Checked By: TN
Project Number: 21089
Drawing Number: D-1472

C1.1
Date: April 1, 2024





CONTOUR LEGEND

- 400 — PROPOSED CONTOURS
- 400 — DESIGN CONTOURS (PUBLIK AT WALLBROOK (SDP 23-05 / CID 23-01) (ARK CONSULTING GROUP))
- 400 — DESIGN CONTOURS (WALLBROOK TOWNHOMES (CD 22-04) (MCADAMS CO.))
- - - 400 - - - EXISTING INDEX CONTOUR
- - - 399 - - - EXISTING CONTOUR

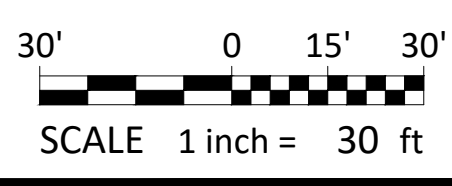
Vegetated Swale Design
 Project: Wallbrook
 Location: Raleigh, Wake County, NC

Device ID	Device Type	Adff Flow (cfs)	Disturbed Area (Ac)	Tc (min)	Intensity (in/hr)	Qreq C (cfs)	Qreq I (cfs)	Invert (ft)	Down Length (ft)	Base Width (ft)	Left Slope (ft)	Right Slope (ft)	Flow Depth (ft)	Manning's (ft/s)	Slope (ft/ft)	Wetted Area (sq ft)	Wetted Perimeter (ft)	Hydraulic Radius (ft)	Velocity (ft/s)	Qa (cfs)	Qa-Qreq?	τ (lb/ft ²)	Allowable Shear Stress (lb/ft ²)	Liner Type	
TDD-1	Temporary Diversion	0.0	0.60	5	7.18	0.5	2.15	394	391.5	85	1	3	3	0.90	0.020	0.0294	3.32	2.36	0.46	0.65	2.15	Yes	1.64774045	N. Am. Green; Straw; 1 nets	1.55
TDD-2	Temporary Diversion	0.0	1.75	5	7.18	0.5	6.28	396	391.5	500	1	3	3	1.96	0.020	0.00900	13.84	9.36	1.65	0.47	6.28	Yes	1.096772947	N. Am. Green; Straw; 1 nets	1.55

*NOAA Atlas 14, NEURIS 2NE Station, 30 yr 5 min duration intensity

Temporary Sediment Traps, Skimmer Sediment Basins, and Temporary Sediment Basins

Device	Type	Weir		Depth	Side Slope	Top Length	Top Width	Skimmer Orifice	
		Width (ft)	Depth (ft)					Weir (ft)	Size (in)
SSB-1	Skimmer Sediment Basin	20	0.3	1.5	2.0	3.0	97	44	2.00 1.25



- Final Drawing -
 Issued for Permit
 Review Purposes Only

1.1 APPR.24
 # DATE
 # DESCRIPTION



EROSION CONTROL PHASE 2 & MASS GRADING PLAN
WALLBROOK - LOT 8
 MASS GRADING / EROSION CONTROL
 Town of Rolesville Project No. CID 24-
 S Main St. / US-401 Business & Wall Creek Drive
 Rolesville, Wake County, North Carolina

NC License: P-1129
ARK CONSULTING GROUP PLLC
 ENGINEERS & PLANNERS

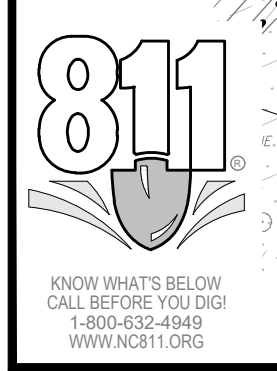
2755-B Charles Blvd.
 Raleigh, NC 27608
 (757) 558-0888
 www.arkconsultinggroup.com

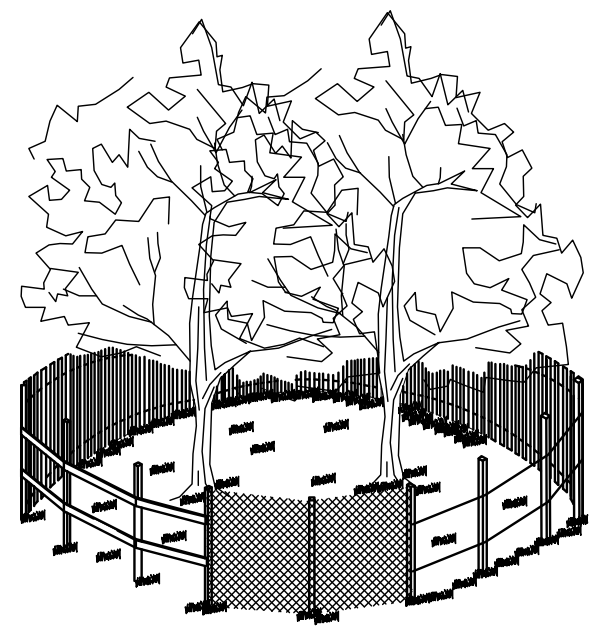
Professional Engineer
 N. C. FABUNDI
 31970
 4/1/2024

Project Manager: BCF
 Drawn By: DLC
 Checked By: TN
 Project Number: 21089
 Drawing Number: D-1472

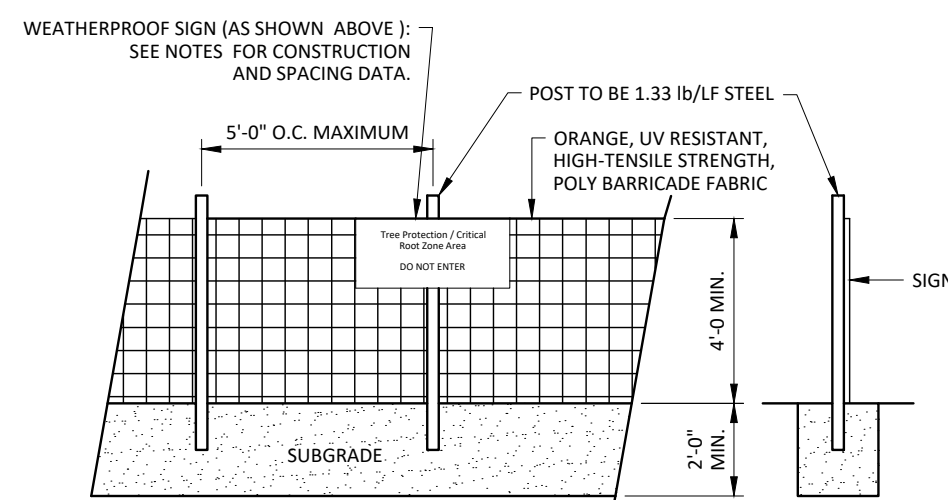
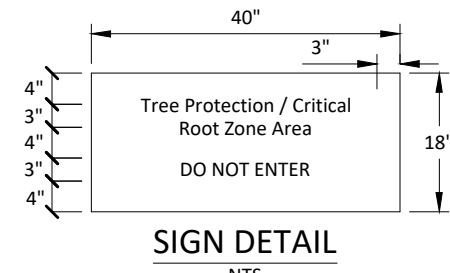
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Date: April 1, 2024

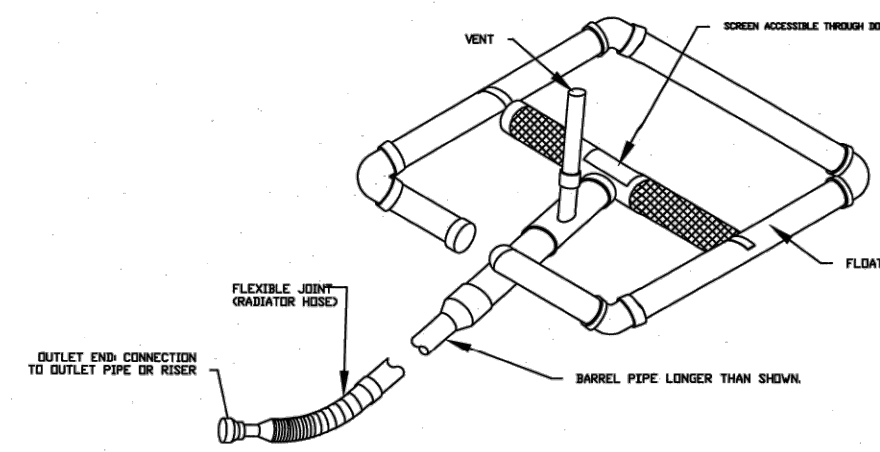




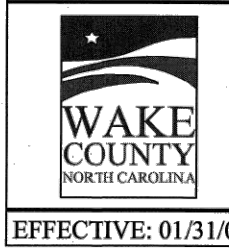
- NOTES:
1. SIGNS ARE TO BE PLACED NO GREATER THAN 200' ON CENTER. PLACE SIGN AT EACH END OF LINEAR TREE PROTECTION AREA AND 200' ON CENTER THEREAFTER.
 2. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
 3. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
 4. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
 5. LETTERS ARE TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE, AND SPACED AS DETAILED.
 6. INSTALL TREE PROTECTION FENCE & SIGNAGE PRIOR TO CALLING FOR THE INITIAL ON-SITE INSPECTION BY A NCDENR INSPECTOR. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BY NCDENR BASED ON ACTUAL FIELD CONDITIONS.



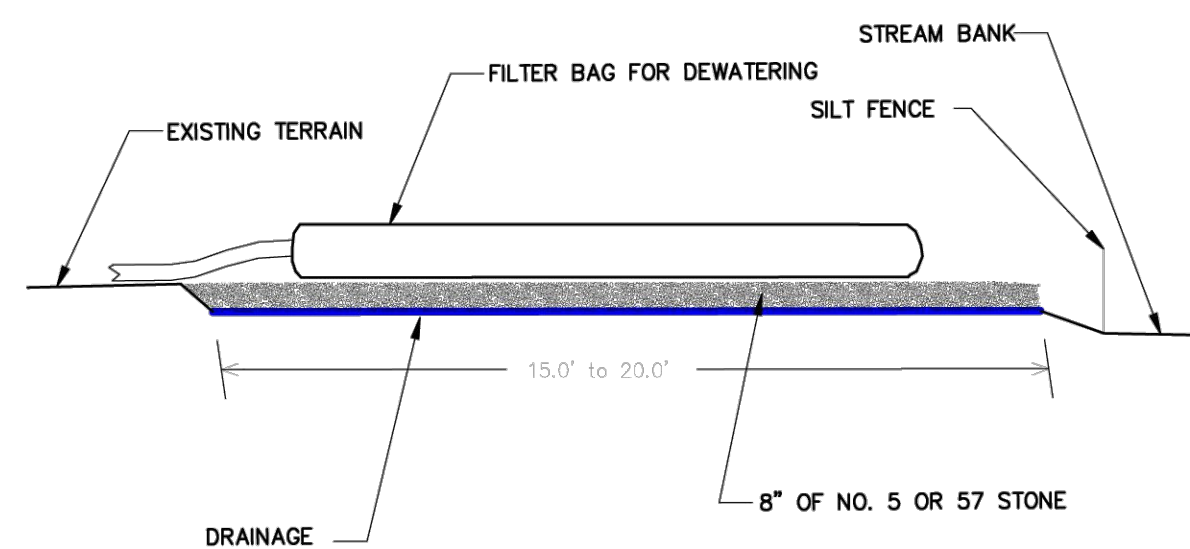
TREE PROTECTION FENCE
NOT TO SCALE



STANDARD SKIMMER DETAIL

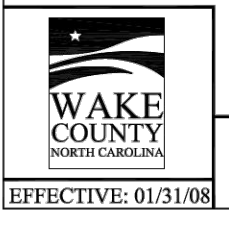


EFFECTIVE: 01/31/08



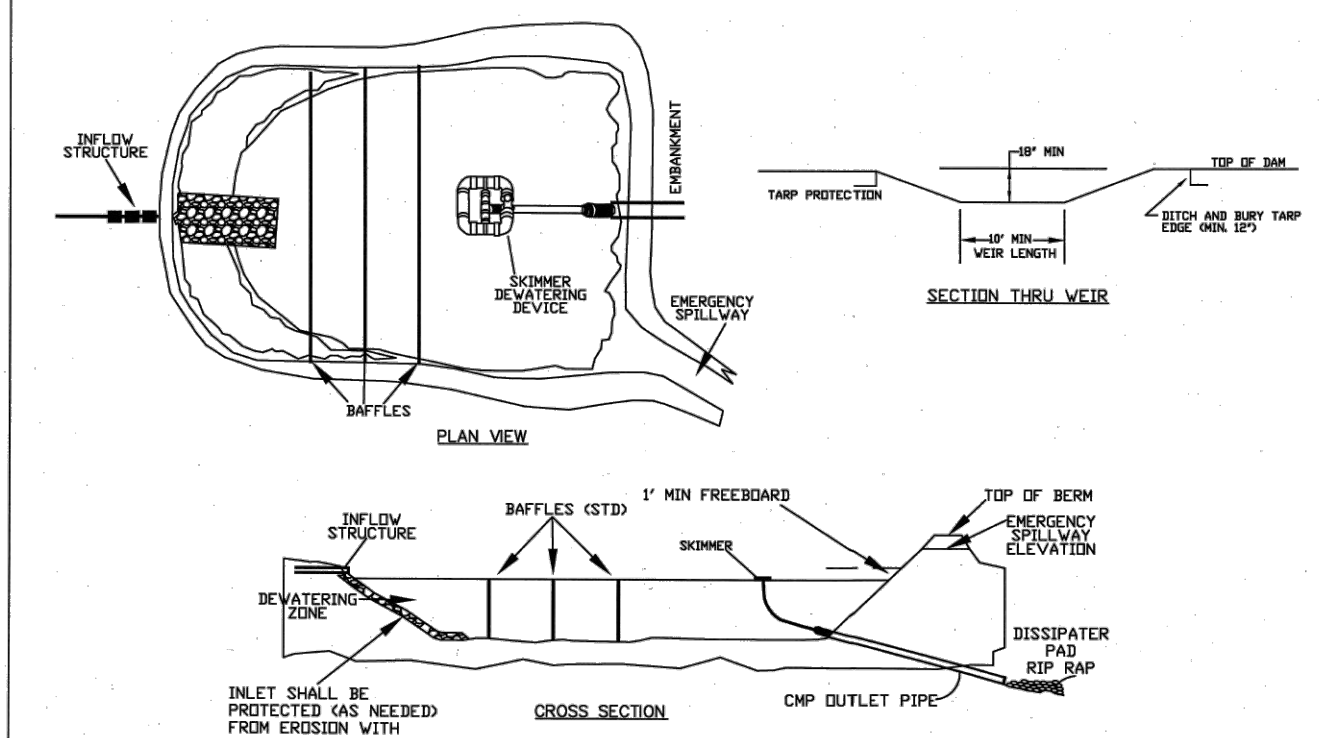
- NOTES
- PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETES MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETES MUST BE PROVIDED TO ELEVATE THE ENTIRE FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

NOT TO SCALE



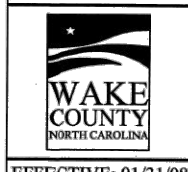
EFFECTIVE: 01/31/08

STANDARD FILTER BAG FOR DEWATERING ACTIVITIES

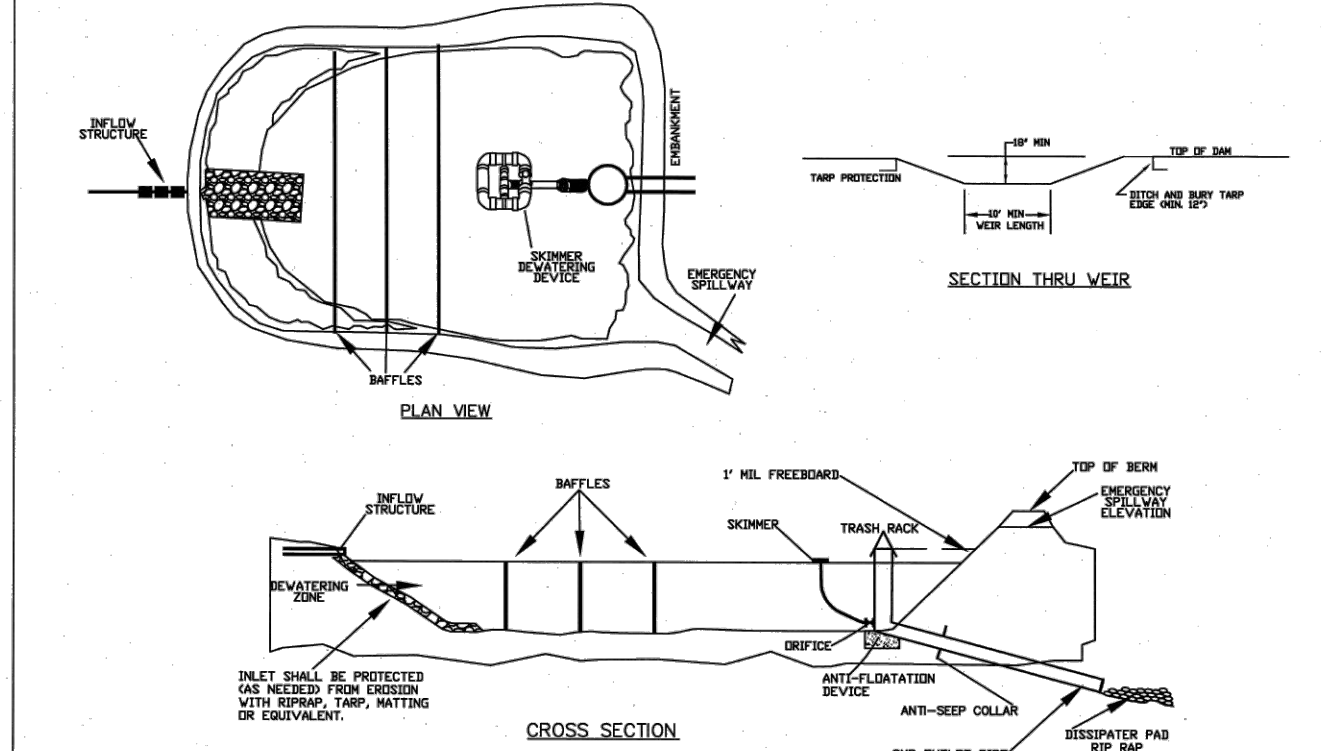


STANDARD SKIMMER BASIN

- NOTES:
1. BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.
 2. THE TAMP USED TO PROTECT THE BERM SHALL BE THE WEIGHT SPECIFIED. THE LENGTH OF THE TAMP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TAMPS ARE TO BE USED, THEN TAMPS SHALL BE OVERLAPPED AT LEAST 12".
 3. PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
 4. BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
 5. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.
 6. DURING THE CONSTRUCTION PHASE OF THE PROJECT, FORWARD STORMWATER RISK SHALL ONLY BE GREATER FROM THE TOP OF PILE.
 7. POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER.

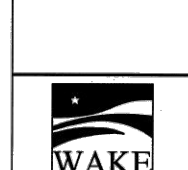


EFFECTIVE: 01/31/08

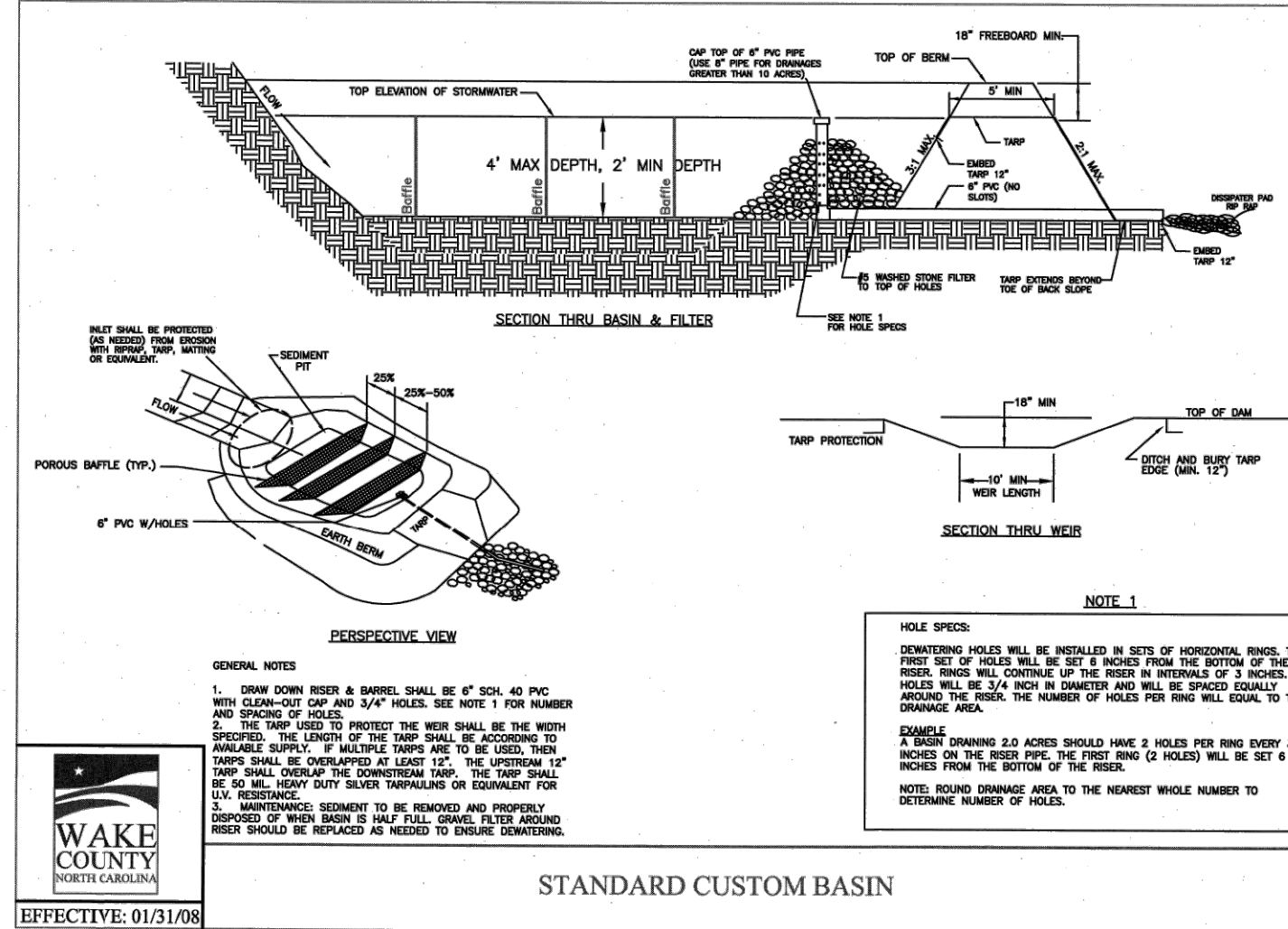


STANDARD SKIMMER ATTACHED TO PERMANENT RISER

- NOTES:
1. BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.
 2. THE TAMP USED TO PROTECT THE BERM SHALL BE THE WEIGHT SPECIFIED. THE LENGTH OF THE TAMP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TAMPS ARE TO BE USED, THEN TAMPS SHALL BE OVERLAPPED AT LEAST 12".
 3. PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
 4. BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
 5. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.
 6. DURING THE CONSTRUCTION PHASE OF THE PROJECT, FORWARD STORMWATER RISK SHALL ONLY BE GREATER FROM THE TOP OF PILE.
 7. POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER.

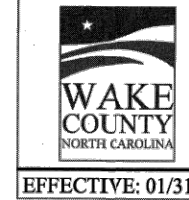


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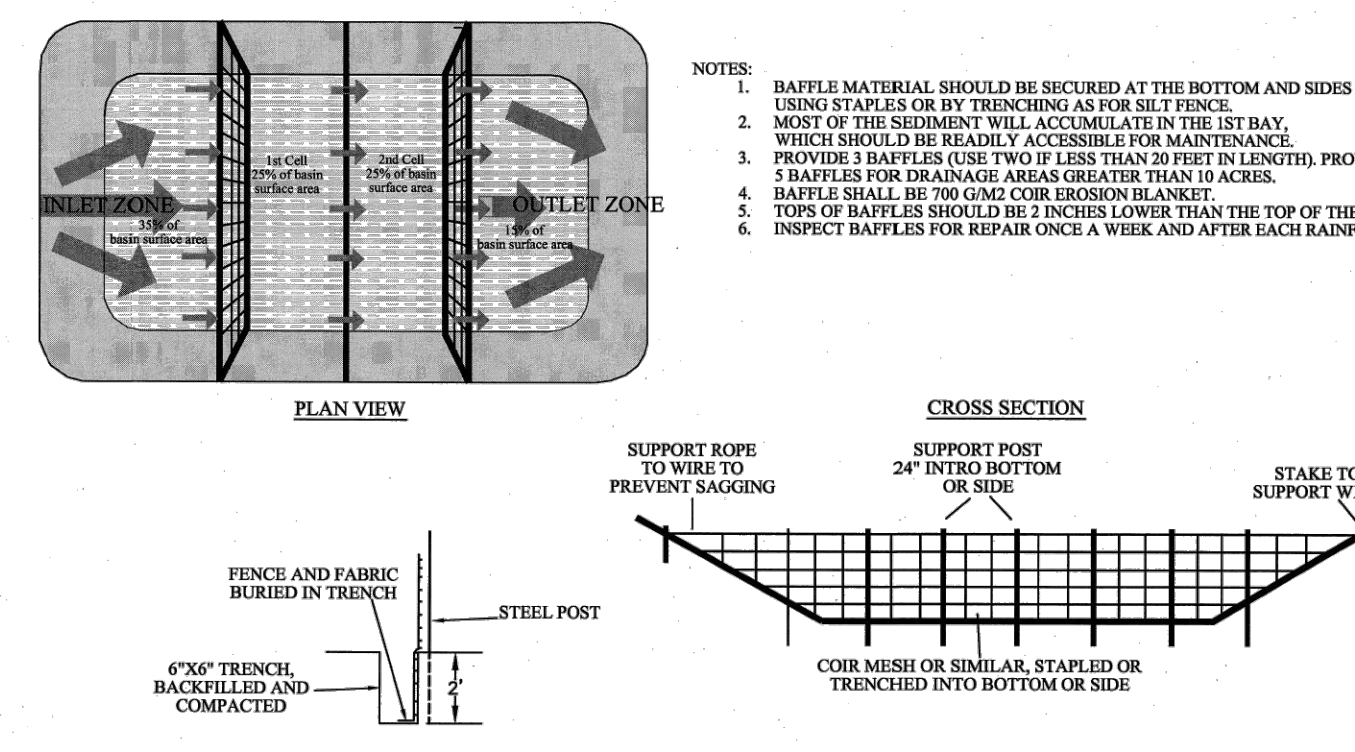


STANDARD CUSTOM BASIN

- GENERAL NOTES
1. DRAW DOWN BERM & BARGE SHALL BE 4" DIA. AS PILE AND CLEAN-UP AND 4" DIA. AS PILE AND CLEAN-UP.
 2. THE TAMP USED TO PROTECT THE BERM SHALL BE THE WEIGHT SPECIFIED. THE LENGTH OF THE TAMP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TAMPS ARE TO BE USED, THEN TAMPS SHALL BE OVERLAPPED AT LEAST 12".
 3. PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
 4. BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
 5. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.
 6. DURING THE CONSTRUCTION PHASE OF THE PROJECT, FORWARD STORMWATER RISK SHALL ONLY BE GREATER FROM THE TOP OF PILE.
 7. POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER.

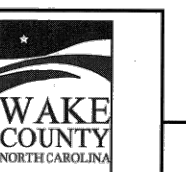


EFFECTIVE: 01/31/08



STANDARD BAFFLES DETAIL

- 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. BAFFLES SHALL BE 70% LONG OVER EROSION ELEMENT.
 5. TOPS OF BAFFLES SHOULD BE 7 INCHES LOWER THAN THE TOP OF THE BERMS.
 6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.



EFFECTIVE: 01/31/08

- Final Drawing -
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REVISIONS:



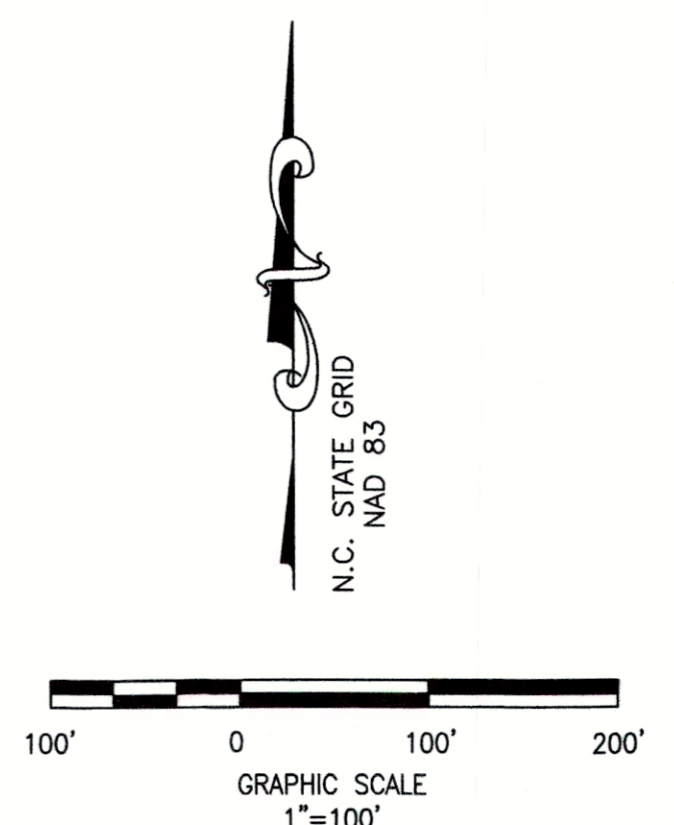
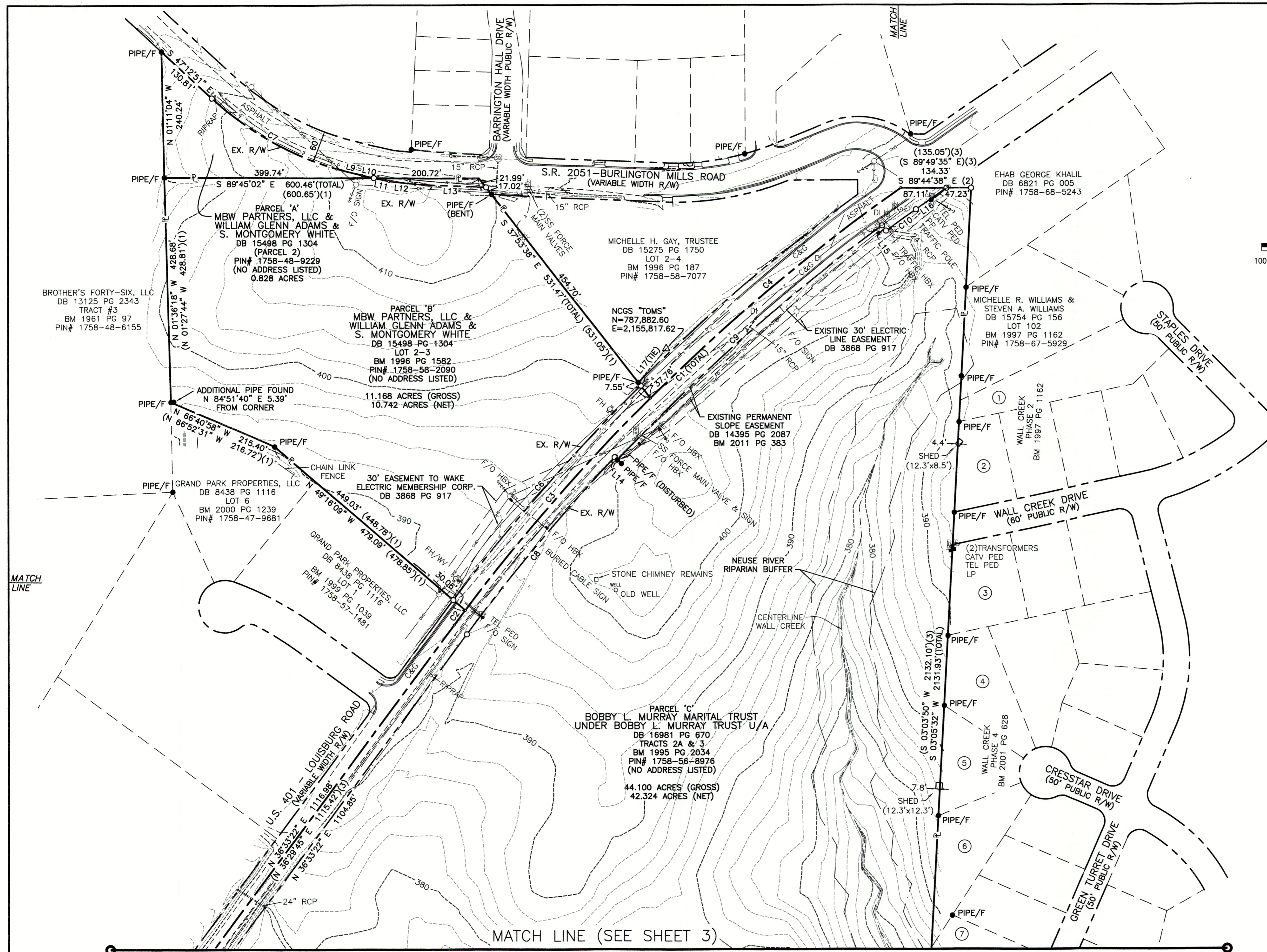
DETAILS
WALLBROOK - LOT 8
MASS GRADING / EROSION CONTROL
Town of Rolesville Project No. CID 24-
S Main St. / US-401 Business & Wall Creek Drive
Rolesville, Wake County, North Carolina



Project Manager: BCF
Drawn By: DLC
Checked By: TN
Project Number: 21089
Drawing Number: D-1472

C2.2

Date: April 1, 2024



ADJOINING PROPERTY OWNERS

- ① RODERICK BLACKWELL & CHRISTINE BLACKWELL
DB 8769 PG 1894
LOT 101
BM 1997 PG 1162
PIN# 1758-67-6836
- ② CHARLES CULBERTSON & TERESA CULBERTSON
DB 17393 PG 896
LOT 96
BM 1997 PG 1162
PIN# 1758-67-4619
- ③ ANTONIO G. CATTARUZZA & SHEILA B. CATTARUZZA
DB 8149 PG 422
LOT 92
BM 1997 PG 1162
PIN# 1758-67-4416
- ④ JOHN DANIEL BONO, III & SABRINA MICHELE BONO
DB 13369 PG 2170
LOT 85
BM 2001 PG 628
PIN# 1758-67-4204
- ⑤ RONALD G. PATTERSON & LAURA A. PATTERSON
DB 10087 PG 2409
LOT 84
BM 2001 PG 628
PIN# 1758-67-4100
- ⑥ MICHAEL A. HADDER & JENNIFER H. HADDER
DB 16143 PG 2477
LOT 83
BM 2001 PG 628
PIN# 1758-66-3984
- ⑦ JOSEPH L. KEELEY, III & SARAH E. KEELEY
DB 10496 PG 1314
LOT 79
BM 2002 PG 825
PIN# 1758-66-4723

LEGEND

- (1) = RECORD DATA PER BM 1996 PG 1582
- (2) = RECORD DATA PER BM 2011 PG 383
- (3) = RECORD DATA PER BM 1995 PG 2034
- (4) = RECORD DATA PER BM 2002 PG 825
- (5) = RECORD DATA PER BM 2005 PG 1195-1196
- (6) = RECORD DATA PER DB 13993 PG 2591
- = FOUND MONUMENT AS NOTED
- = SET IRON PIN
- △ = NCGS MONUMENT
- = DIMENSION POINT (NOTHING SET)
- ℙ = PROPERTY LINE
- R/W = RIGHT OF WAY
- C&G = CURB AND GUTTER
- CAV = CABLE TV PEDESTAL
- DI = DROP INLET
- ELEC = ELECTRIC BOX
- EM = ELECTRIC METER
- F/O = FIBER OPTIC
- FH = FIRE HYDRANT
- GV = GAS VALVE
- HBX = HAND BOX
- LP = LIGHT POLE
- PP = POWER POLE
- ← = GUY WIRE
- RCP = REINFORCED CONCRETE PIPE
- S.F. = SQUARE FEET (AREA)
- SIGN = SIGN
- TRAFFIC SIGNAL POLE = TRAFFIC SIGNAL POLE
- SANITARY SEWER MANHOLE = SANITARY SEWER MANHOLE
- SANITARY SEWER FORCE MAIN VALVE = SANITARY SEWER FORCE MAIN VALVE
- STORM DRAIN MANHOLE = STORM DRAIN MANHOLE
- TELEPHONE PEDESTAL = TELEPHONE PEDESTAL
- TRAFFIC BOX = TRAFFIC BOX
- WATER BOX = WATER BOX
- WM = WATER METER
- WMH = WATER MANHOLE
- WV = WATER VALVE
- WELL = WELL
- PEDESTRIAN X-WALK POLE = PEDESTRIAN X-WALK POLE
- ELECTRIC LINE = ELECTRIC LINE
- SANITARY SEWER FORCE MAIN = SANITARY SEWER FORCE MAIN
- FIBER OPTIC LINE = FIBER OPTIC LINE
- GAS LINE = GAS LINE
- OVERHEAD ELECTRIC LINE = OVERHEAD ELECTRIC LINE
- SANITARY SEWER LINE = SANITARY SEWER LINE
- TELEPHONE LINE = TELEPHONE LINE
- CABLE TV LINE = CABLE TV LINE
- WATER LINE = WATER LINE

LINE	BEARING	DISTANCE
L1	N 02°07'15" W	48.32'
L2	N 03°10'03" W	17.67'
L3	N 41°10'16" E	41.30'
L4	N 40°37'47" E	49.15'
L5	N 39°31'43" E	50.83'
L6	N 38°52'58" E	49.80'
L7	N 38°22'04" E	50.40'
L8	N 37°17'31" E	50.37'
L9	S 75°02'10" E	50.12'
L10	S 77°31'31" E	22.85'
L11	S 77°31'31" E	29.16'
L12	S 84°03'28" E	50.67'
L13	S 87°10'20" E	135.52'
L14	S 46°39'44" E	7.50'
L15	S 36°12'58" E	12.50'
L16	N 55°13'38" E	70.99'
L17	N 39°21'58" E	83.92'

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	1197.82'	3750.00'	18°18'05"	S 45°42'25" W	1192.73'
C2	35.15'	3750.00'	0°32'13"	S 36°49'29" W	35.15'
C3	537.89'	3750.00'	8°13'06"	S 41°12'09" W	537.43'
C4	624.78'	3750.00'	9°32'45"	S 50°05'04" W	624.06'
C5	65.86'	123.92'	30°27'05"	S 17°21'49" E	65.09'
C6	543.86'	3780.00'	8°14'37"	S 41°14'38" W	543.40'
C7	276.12'	600.00'	26°22'04"	N 60°23'53" W	273.69'
C8	440.32'	3720.00'	6°46'55"	S 39°56'50" W	440.07'
C9	675.86'	3712.50'	10°25'52"	S 48°33'13" W	674.95'
C10	70.31'	3700.00'	1°05'20"	S 54°18'48" W	70.31'

(R=3750.00', L=1199.06')(3)

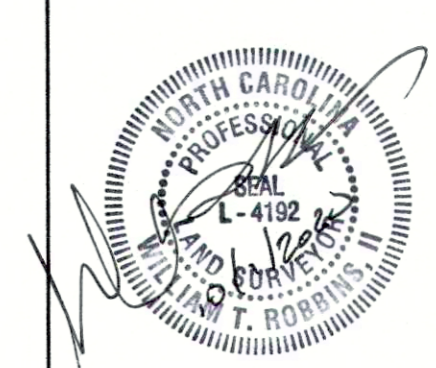
(2)

JMT JOHNSON, MIRMIRAN & THOMPSON
 Engineering A Brighter Future
 9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236
 PHONE: (804)-323-9900 FAX: (804)-323-0596
 EMAIL: jmtva@jmt-engineering.com

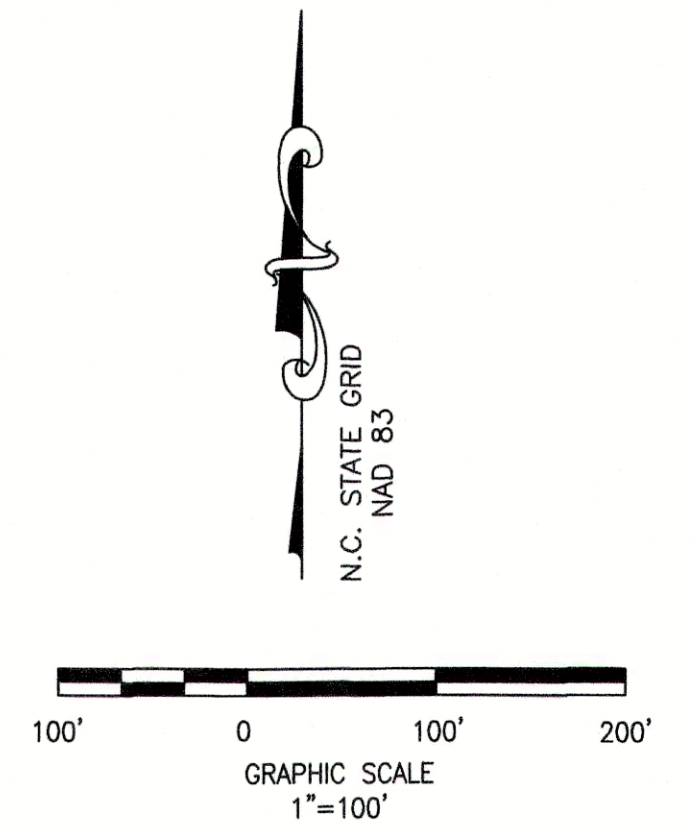
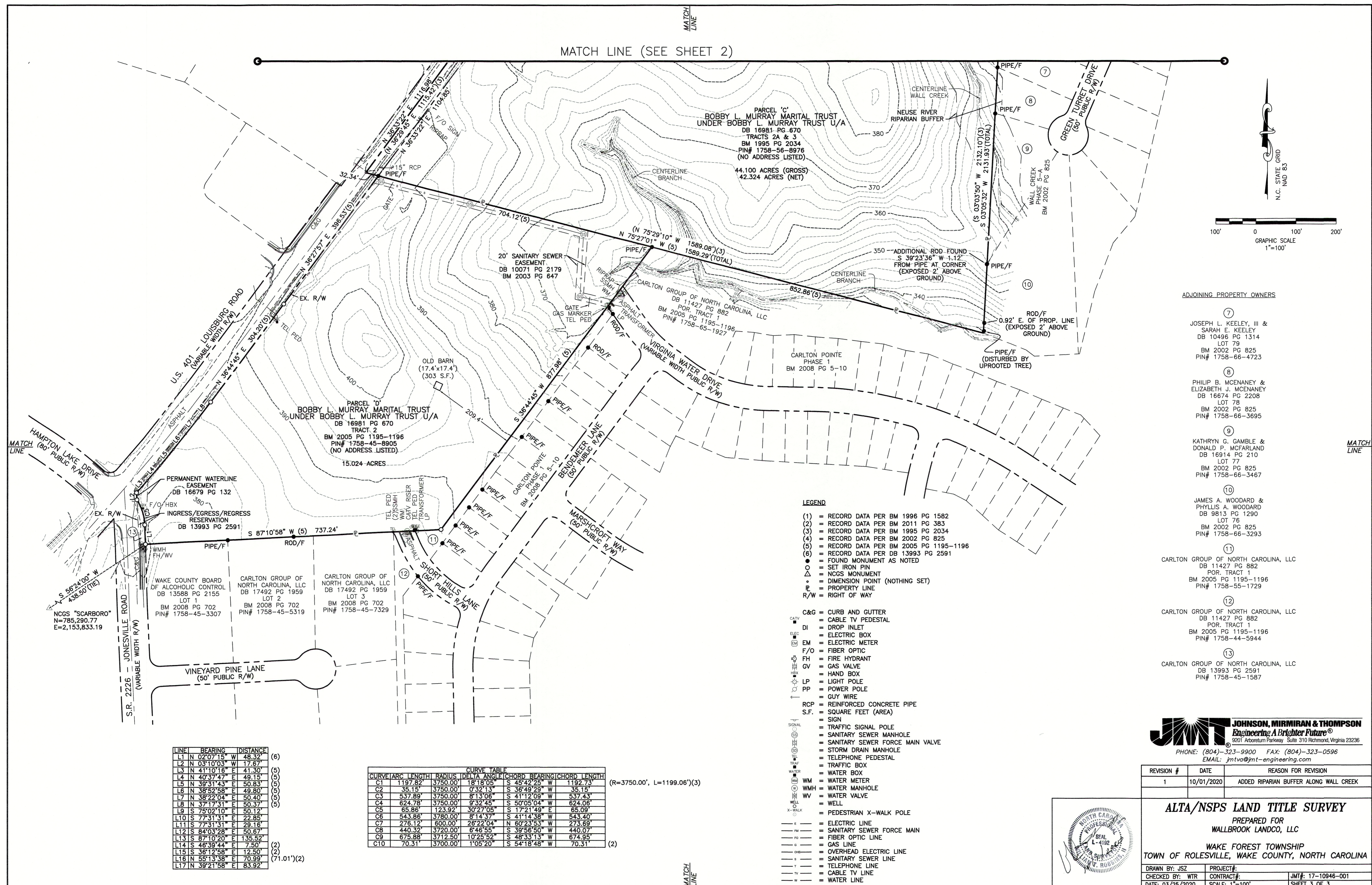
REVISION #	DATE	REASON FOR REVISION
1	10/01/2020	ADDED RIPARIAN BUFFER ALONG WALL CREEK

ALTA/NSPS LAND TITLE SURVEY
 PREPARED FOR
WALLBROOK LANDCO, LLC
 WAKE FOREST TOWNSHIP
 TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

DRAWN BY: JSZ PROJECT#: JMT# 17-10946-001
 CHECKED BY: WTR CONTRACT#: SHEET 2 OF 3
 DATE: 03/25/2020 SCALE: 1"=100'



MATCH LINE (SEE SHEET 2)



ADJOINING PROPERTY OWNERS

- (7) JOSEPH L. KEELEY, III & SARAH E. KEELEY
DB 10496 PG 1314
LOT 79
BM 2002 PG 825
PIN# 1758-66-4723
- (8) PHILIP B. MCENANEY & ELIZABETH J. MCENANEY
DB 16674 PG 2208
LOT 78
BM 2002 PG 825
PIN# 1758-66-3695
- (9) KATHRYN G. GAMBLE & DONALD P. MCFARLAND
DB 16914 PG 210
LOT 77
BM 2002 PG 825
PIN# 1758-66-3467
- (10) JAMES A. WOODARD & PHYLLIS A. WOODARD
DB 9813 PG 1290
LOT 76
BM 2002 PG 825
PIN# 1758-66-3293
- (11) CARLTON GROUP OF NORTH CAROLINA, LLC
DB 11427 PG 882
POR. TRACT 1
BM 2005 PG 1195-1196
PIN# 1758-55-1729
- (12) CARLTON GROUP OF NORTH CAROLINA, LLC
DB 11427 PG 882
POR. TRACT 1
BM 2005 PG 1195-1196
PIN# 1758-44-5944
- (13) CARLTON GROUP OF NORTH CAROLINA, LLC
DB 13993 PG 2591
PIN# 1758-45-1587

LEGEND

- (1) = RECORD DATA PER BM 1996 PG 1582
- (2) = RECORD DATA PER BM 2011 PG 383
- (3) = RECORD DATA PER BM 1995 PG 2034
- (4) = RECORD DATA PER BM 2002 PG 825
- (5) = RECORD DATA PER BM 2005 PG 1195-1196
- (6) = RECORD DATA PER DB 13993 PG 2591
- = FOUND MONUMENT AS NOTED
- = SET IRON PIN
- △ = NCGS MONUMENT
- = DIMENSION POINT (NOTHING SET)
- ▭ = PROPERTY LINE
- R/W = RIGHT OF WAY

- C&G = CURB AND GUTTER
- DI = DROP INLET
- ELEC = ELECTRIC BOX
- EM = ELECTRIC METER
- F/O = FIBER OPTIC
- FH = FIRE HYDRANT
- GV = GAS VALVE
- HB = HAND BOX
- LP = LIGHT POLE
- PP = POWER POLE
- GUY = GUY WIRE
- RCP = REINFORCED CONCRETE PIPE
- S.F. = SQUARE FEET (AREA)
- SIGN = SIGN
- TS = TRAFFIC SIGNAL POLE
- SSM = SANITARY SEWER MANHOLE
- SSFMV = SANITARY SEWER FORCE MAIN VALVE
- SDM = STORM DRAIN MANHOLE
- TP = TELEPHONE PEDESTAL
- TB = TRAFFIC BOX
- WB = WATER BOX
- WM = WATER METER
- WMH = WATER MANHOLE
- WV = WATER VALVE
- WELL = WELL
- X-WALK = PEDESTRIAN X-WALK POLE
- E = ELECTRIC LINE
- FM = SANITARY SEWER FORCE MAIN
- FO = FIBER OPTIC LINE
- G = GAS LINE
- OHE = OVERHEAD ELECTRIC LINE
- S = SANITARY SEWER LINE
- T = TELEPHONE LINE
- TV = CABLE TV LINE
- W = WATER LINE

LINE	BEARING	DISTANCE
L1	N 02°07'15" W	48.32
L2	N 03°10'03" W	17.67
L3	N 41°10'16" E	41.30
L4	N 40°37'47" E	49.15
L5	N 39°31'43" E	50.83
L6	N 38°52'58" E	49.80
L7	N 38°22'04" E	50.40
L8	N 37°17'31" E	50.37
L9	S 75°02'10" E	50.12
L10	S 77°31'31" E	22.85
L11	S 77°31'31" E	29.16
L12	S 84°03'28" E	50.67
L13	S 87°10'20" E	135.52
L14	S 46°39'44" E	7.50
L15	S 36°12'58" E	12.50
L16	N 55°13'38" E	70.99
L17	N 39°21'58" E	83.92

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	1197.82	3750.00	18°18'05"	S 45°42'25" W	1192.73
C2	35.15	3750.00	0°32'13"	S 36°49'29" W	35.15
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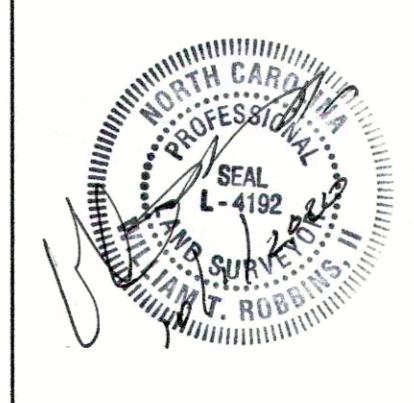
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REVISION #	DATE	REASON FOR REVISION
1	10/01/2020	ADDED RIPARIAN BUFFER ALONG WALL CREEK

ALTA/NSPS LAND TITLE SURVEY
 PREPARED FOR
WALLBROOK LANDCO, LLC
 WAKE FOREST TOWNSHIP
 TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

DRAWN BY: JSZ PROJECT#: JMT#: 17-10946-001
 CHECKED BY: WTR CONTRACT#: JMT#: 17-10946-001
 DATE: 03/25/2020 SCALE: 1"=100' SHEET 3 OF 3



TREE PRESERVATION AREA			
Wallbrook	Area (SF)	Acres	
Lot 1A (Publix)	289,488.0	6.65	
Lot 1B	100,018.8	2.30	
Lot 1C	82,590.5	1.90	
Lot 2	74,702.8	1.71	
Lot 3	47,515.5	1.09	
Lot 4	78,725.4	1.81	
Lot 5 (Boat Tract)	220,767.8	5.07	
Lot 6 (Townhomes)	876,206.2	20.11	
Lot 7	119,306.6	2.74	
Lot 8	232,868.9	5.35	
Right-of-Way (Future)	290,799.5	6.68	
WALLBROOK GROSS ACREAGE		55.39	
TREE PRESERVATION AREA	368,616.2	8.46	15.28%
QUALIFYING REPLACEMENT DECIDUOUS			12
QUALIFYING REPLACEMENT EVERGREEN			8

Paris Tract	Area (SF)	Acres	
Lot 9	86,013.5	1.97	
Lot 10	136,382.3	3.13	
Lot 11	70,406.6	1.62	
Right-of-Way (Future)	13,978.4	0.32	
PARIS TRACT GROSS ACREAGE		7.04	
TREE PRESERVATION AREA	16,399.5	0.38	5.35%
QUALIFYING REPLACEMENT DECIDUOUS			2
QUALIFYING REPLACEMENT EVERGREEN			0

MBW Tract	Area (SF)	Acres	
Lot 12	223,658.5	5.13	
Lot 13	60,807.1	1.40	
Lot 14	17,893.2	0.41	
MBW GROSS ACREAGE		6.94	
TREE PRESERVATION AREA	0.0	0.00	0.00%
QUALIFYING REPLACEMENT DECIDUOUS			1
QUALIFYING REPLACEMENT EVERGREEN			0

TREE REPLACEMENT - WALLBROOK						
Date	ToR Project #	Project Description	Deciduous	Total Provided / Required	Evergreen	Total Provided / Required
18-AUG-23	SOP 23-05	Publix at Wallbrook	12	12 / 12	8	8 / 8

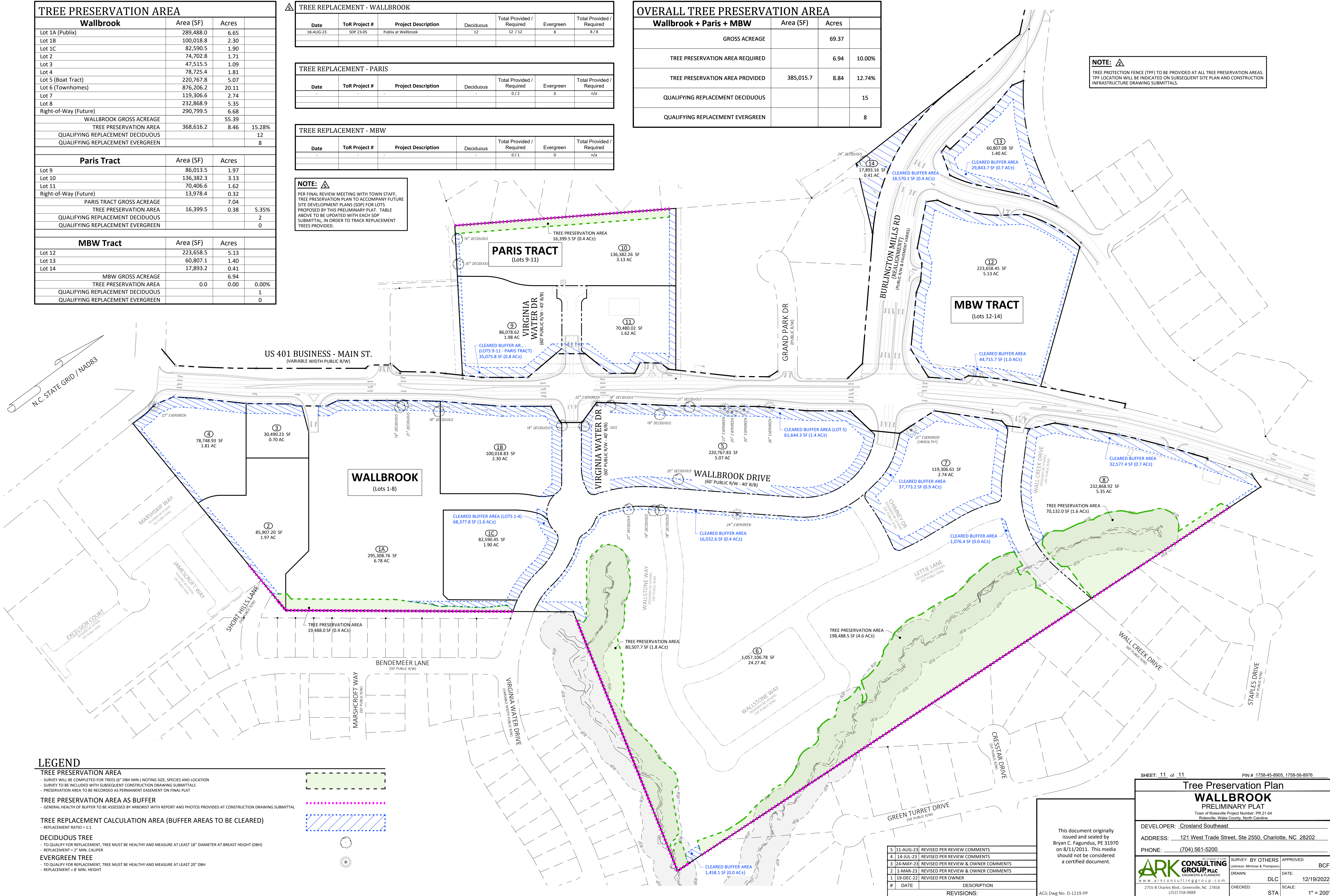
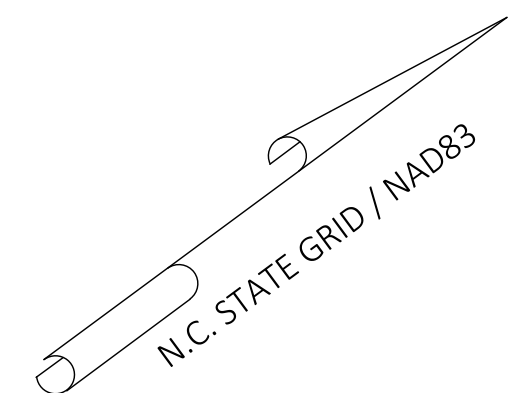
TREE REPLACEMENT - PARIS						
Date	ToR Project #	Project Description	Deciduous	Total Provided / Required	Evergreen	Total Provided / Required
				0 / 2	0	n/a

TREE REPLACEMENT - MBW						
Date	ToR Project #	Project Description	Deciduous	Total Provided / Required	Evergreen	Total Provided / Required
				0 / 1	0	n/a

NOTE: PER FINAL REVIEW MEETING WITH TOWN STAFF, TREE PRESERVATION PLAN TO ACCOMPANY FUTURE SITE DEVELOPMENT PLANS (SDP) FOR LOTS PROPOSED BY THIS PRELIMINARY PLAT. TABLE ABOVE TO BE UPDATED WITH EACH SDP SUBMITTAL, IN ORDER TO TRACK REPLACEMENT TREES PROVIDED.

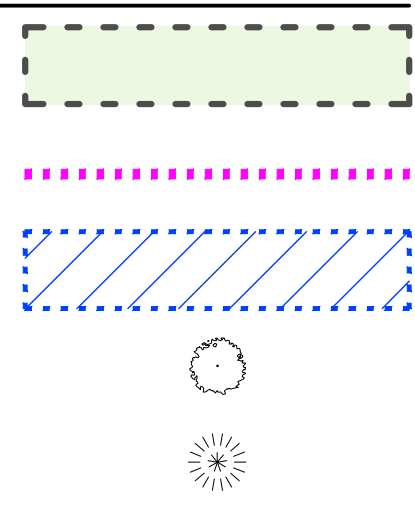
OVERALL TREE PRESERVATION AREA			
Wallbrook + Paris + MBW	Area (SF)	Acres	
GROSS ACREAGE		69.37	
TREE PRESERVATION AREA REQUIRED		6.94	10.00%
TREE PRESERVATION AREA PROVIDED	385,015.7	8.84	12.74%
QUALIFYING REPLACEMENT DECIDUOUS			15
QUALIFYING REPLACEMENT EVERGREEN			8

NOTE: TREE PROTECTION FENCE (TPF) TO BE PROVIDED AT ALL TREE PRESERVATION AREAS. TPF LOCATION WILL BE INDICATED ON SUBSEQUENT SITE PLAN AND CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTALS.



LEGEND

- TREE PRESERVATION AREA**
 - SURVEY WILL BE COMPLETED FOR TREES (6" DBH MIN.) NOTING SIZE, SPECIES AND LOCATION
 - SURVEY TO BE INCLUDED WITH SUBSEQUENT CONSTRUCTION DRAWING SUBMITTALS
 - PRESERVATION AREA TO BE RECORDED AS PERMANENT EASEMENT ON FINAL PLAT
- TREE PRESERVATION AREA AS BUFFER**
 - GENERAL HEALTH OF BUFFER TO BE ASSESSED BY ARBORIST WITH REPORT AND PHOTOS PROVIDED AT CONSTRUCTION DRAWING SUBMITTAL
- TREE REPLACEMENT CALCULATION AREA (BUFFER AREAS TO BE CLEARED)**
 - REPLACEMENT RATIO = 1:1
- DECIDUOUS TREE**
 - TO QUALIFY FOR REPLACEMENT, TREE MUST BE HEALTHY AND MEASURE AT LEAST 18" DIAMETER AT BREAST HEIGHT (DBH)
 - REPLACEMENT = 2" MIN. CALIPER
- EVERGREEN TREE**
 - TO QUALIFY FOR REPLACEMENT, TREE MUST BE HEALTHY AND MEASURE AT LEAST 20" DBH
 - REPLACEMENT = 8" MIN. HEIGHT



#	DATE	DESCRIPTION
5	11-AUG-23	REVISED PER REVIEW COMMENTS
4	14-JUL-23	REVISED PER REVIEW COMMENTS
3	24-MAY-23	REVISED PER REVIEW & OWNER COMMENTS
2	1-MAR-23	REVISED PER REVIEW & OWNER COMMENTS
1	19-DEC-22	REVISED PER OWNER

This document originally issued and sealed by Bryan C. Fagundus, PE 31970 on 8/11/2011. This media should not be considered a certified document.

SHEET: 11 of 11 PIN # 1758-45-8905, 1758-56-8976

Tree Preservation Plan
WALLBROOK
PRELIMINARY PLAT

DEVELOPER: Crosland Southeast
ADDRESS: 121 West Trade Street, Ste 2550, Charlotte, NC 28202
PHONE: (704) 561-5200

795-B Charles Blvd., Greenville, NC 27858
(252) 558-0888

APPROVED: BCF
DATE: 12/19/2022
SCALE: 1" = 200'

C:\Users\BROOKS\Desktop\PROJECTS\WATER\WALLBROOK\DWG\11-11-23-0000 - FINAL.DWG - WALLBROOK - Tree (11) - The Crossroads, Inc. - Aug 21, 2023 @ 11:48 AM