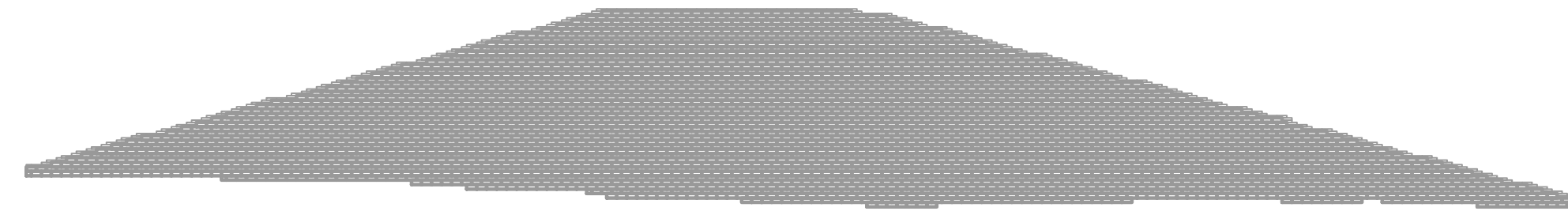
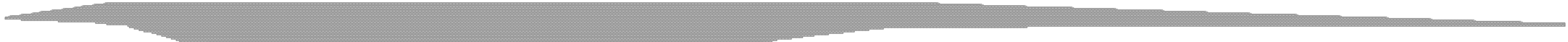


RETAINING WALL PLANS
FOR
SERENITY SUBDIVISION - PHASES 6A & 6C
RETAINING WALLS

PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC



Retaining Wall Profile #5
Not To Scale
Piney Grove Rawls Road
Serenity Subdivision Phases 6A & 6C - Harnett County, NC



Retaining Wall Profile #9
Not To Scale
Piney Grove Rawls Road
Serenity Subdivision Phases 6A & 6C - Harnett County, NC

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DETAIL SHEET - SHEET 1 OF 2	C-10

GEOTECHNICAL GENERAL NOTE:

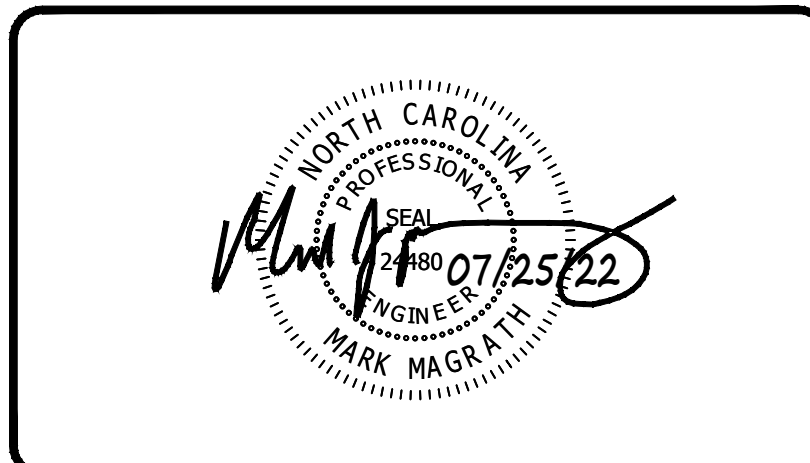
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GENERAL DESIGN NOTE:

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 EMAIL: ADDRESS@VENTUREENGINEERING.COM
 LICENSE NO. C-2590

SERENITY SUBDIVISION
 PHASES 6A & 6C - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

 COVER SHEET
 SERENITY SUBDIVISION - HARNETT COUNTY, NC
 PHASES 6A & 6C

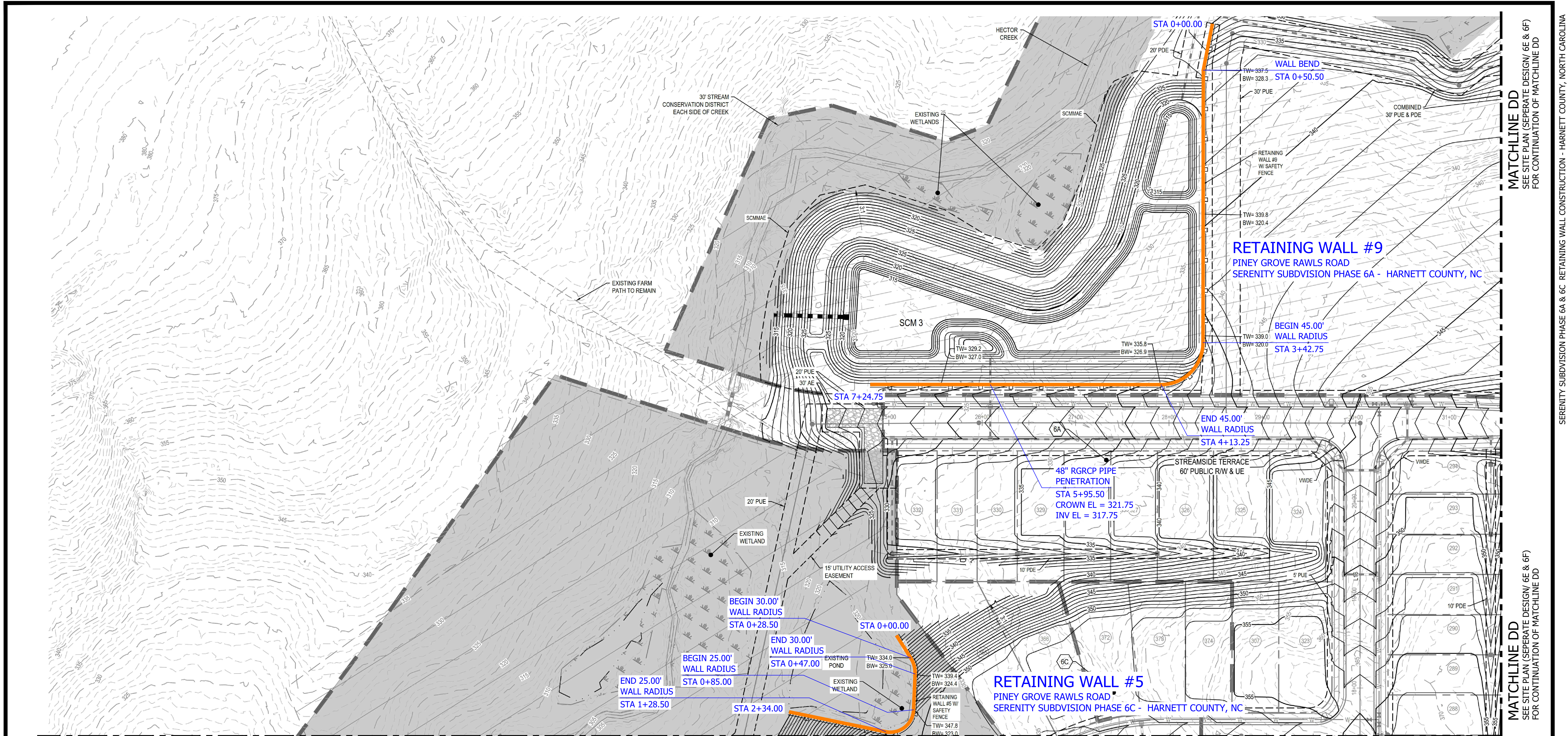
DATE: JULY 25, 2022
DES: TLH
DRAWN: TLH
APPROVED: MJM

SCALE	
HORIZONTAL:	N/A
VERTICAL:	N/A

DRAWING NUMBER
G-1

SERENITY SUBDIVISION PHASES 6A & 6C RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA

VE PROJECT NO: 00220001 - SERENITY SUBDIVISION - PHASES 6A & 6C



GEOTECHNICAL GENERAL NOTE:

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GENERAL DESIGN NOTE:

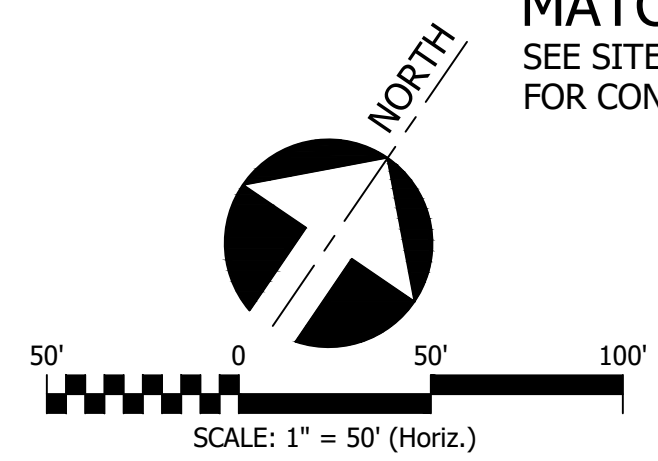
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RETAINING WALL #5 & #9
 RETAINING WALL SITE PLAN - SERENITY SUBDIVISION
 SCALE: 1" = 50'
 PINE GROVE RAWLS ROAD
 SERENITY SUBDIVISION PHASE 6A & 6C - HARNETT COUNTY, NC

NOTE:
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 VENTURE ENGINEERING, P.A. IS NOT RESPONSIBLE FOR ERRORS/OMMISSIONS ON CIVIL ENGINEERING GRADING PLAN.

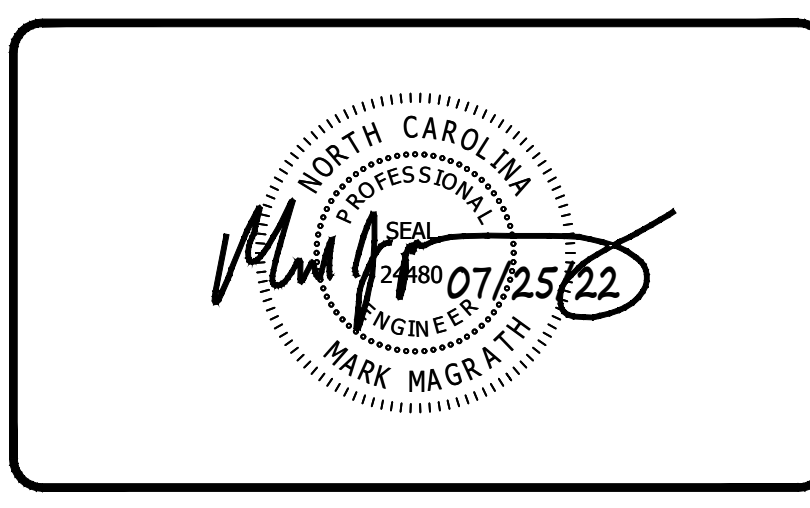
MATCHLINE BB
 SEE SITE PLAN (SEPERATE DESIGN/ 1D, 2C & 2E THRU 2G)
 FOR CONTINUATION OF MATCHLINE BB

MATCHLINE BB
 SEE SITE PLAN (SEPERATE DESIGN/ 1D, 2C & 2E THRU 2G)
 FOR CONTINUATION OF MATCHLINE BB



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DESCRIPTIONS	DATE

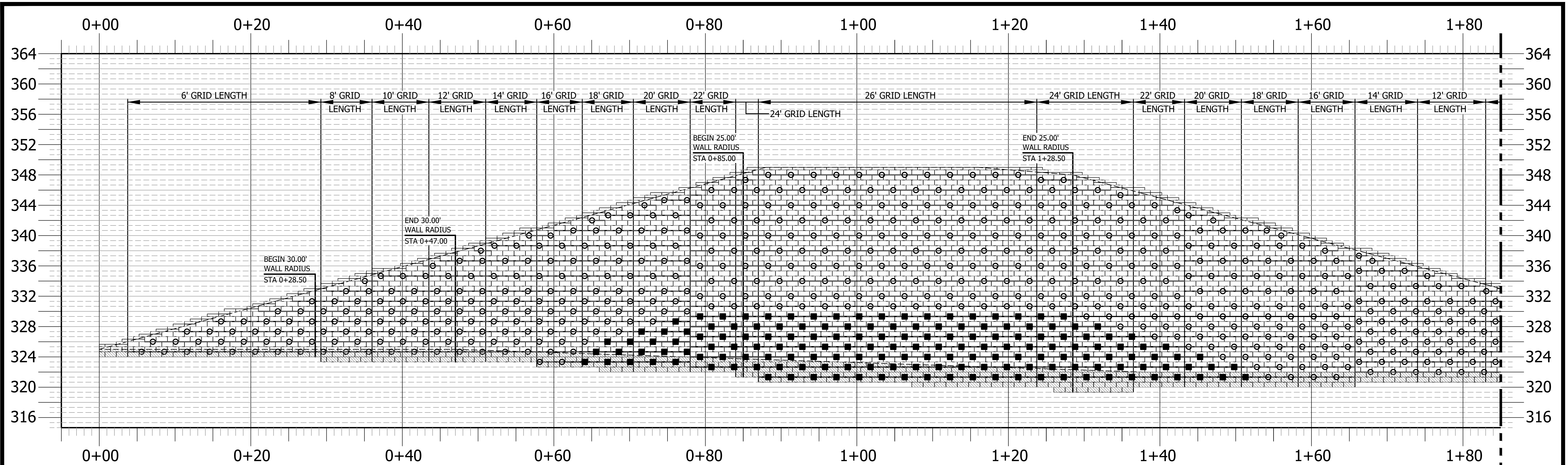


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SERENITY SUBDIVISION
 PHASES 6A & 6C - RETAINING WALLS
 PINE GROVE RAWLS ROAD
 HARNETT COUNTY, NC

RETAINING WALL SITE PLAN
 SERENITY SUBDIVISION - HARNETT COUNTY, NC
 PHASES 6A & 6C

DATE: JULY 25, 2022	SCALE	DRAWING NUMBER
DES: TLH		
DRAWN: TLH	HORIZONTAL: 1" = 50'	C-2
APPROVED: MJM	VERTICAL: N/A	



MATCHLINE A
 SEE SHEET C-4 FOR CONTINUATION OF
 MATCHLINE A (STA 1+85)

GEOTECHNICAL GENERAL NOTE:

1. GEOTECHNICAL INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. THEREFORE, ASSUMPTIONS WERE MADE BASED ON SOIL CHARACTERISTICS IN THE AREA (REFER TO SHEET C-1). IF SOILS ARE DIFFERENT IN THE FIELD THAN LISTED IN THE GEOTECHNICAL REPORT, VENTURE ENGINEERING, P.A. MUST BE NOTIFIED IMMEDIATELY BEFORE WORK CAN CONTINUE.
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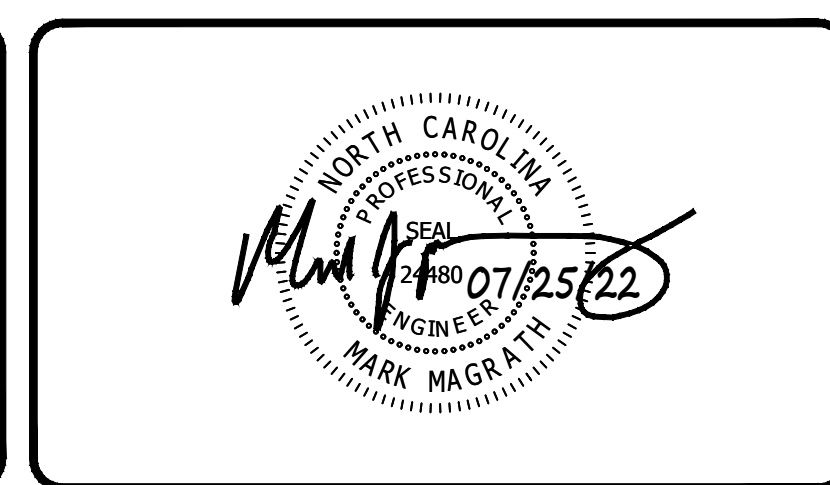
GENERAL DESIGN NOTE:

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LEGEND	
	GRIDLOK 370
	GRIDLOK 540

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DESCRIPTIONS	REVISIONS	DATE



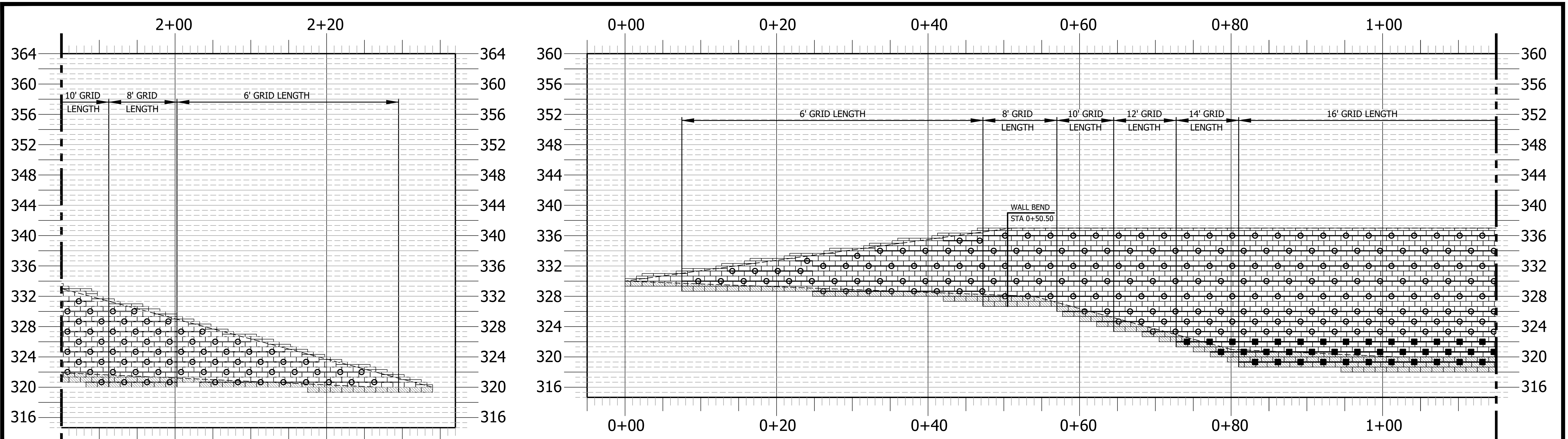
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SERENITY SUBDIVISION
 PHASES 6A & 6C - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

RETAINING WALL PROFILE #5
 SERENITY SUBDIVISION - HARNETT COUNTY, NC
 PHASES 6A & 6C

DATE: JULY 25, 2022	SCALE	DRAWING NUMBER
DES: TLH		
DRAWN: TLH	HORIZONTAL: N/A	C-3
APPROVED: MJM	VERTICAL: N/A	

SERENITY SUBDIVISION - PHASES 6A & 6C RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA
 VE PROJECT NO: 00220001 SERENITY SUBDIVISION - PHASES 6A & 6C



MATCHLINE A
SEE SHEET C-3 FOR CONTINUATION OF MATCHLINE A (STA 1+85)

RETAINING WALL PROFILE #5 (Continued)
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - HARNETT COUNTY, NC
PHASE 6C

RETAINING WALL PROFILE #9
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - HARNETT COUNTY, NC
PHASE 6C

MATCHLINE B
SEE SHEET C-4 FOR CONTINUATION OF MATCHLINE B (STA 1+15)

GEOTECHNICAL GENERAL NOTE:

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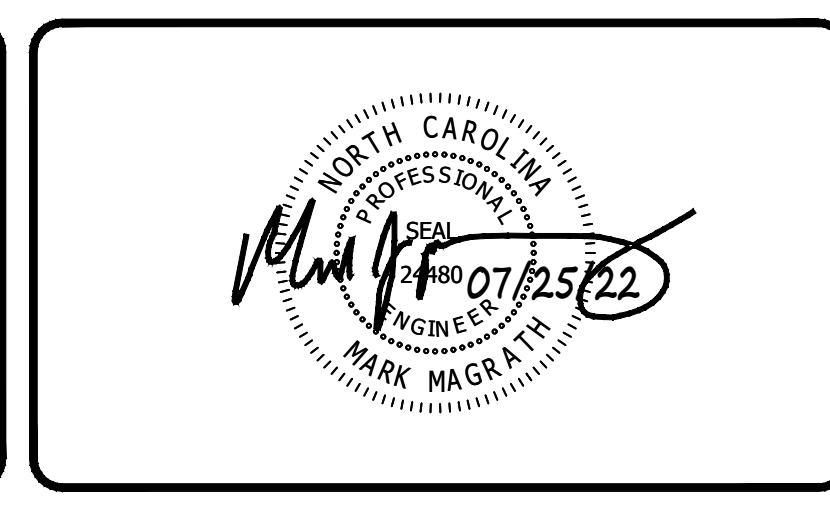
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LEGEND	
	GRIDLOK 370
	GRIDLOK 540

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SERENITY SUBDIVISION
PHASES 6A & 6C - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

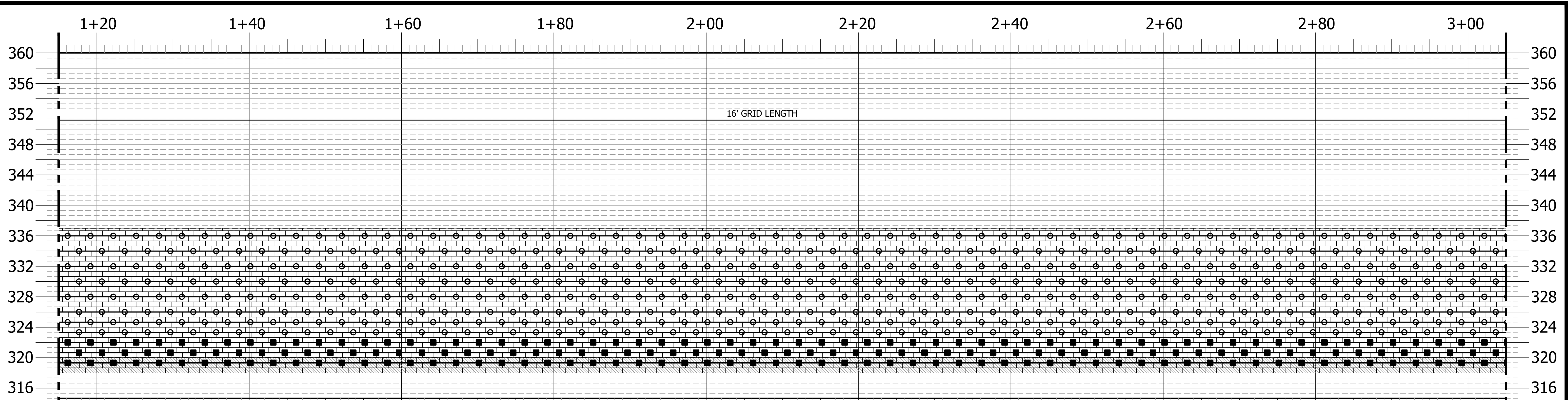
RETAINING WALL PROFILE #5 (Continued) & #9
SERENITY SUBDIVISION - HARNETT COUNTY, NC
PHASES 6A & 6C

DATE: JULY 25, 2022
DES: TLH
DRAWN: TLH
APPROVED: MJM

SCALE
HORIZONTAL: N/A
VERTICAL: N/A

DRAWING NUMBER
C-4

SERENITY SUBDIVISION - PHASES 6A & 6C RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA
VE PROJECT NO: 00220001



1+20 1+40 1+60 1+80 2+00 2+20 2+40 2+60 2+80 3+00
MATCHLINE B
 SEE SHEET C-3 FOR CONTINUATION OF MATCHLINE B (STA 1+15)

RETAINING WALL PROFILE #9 (Continued)
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - HARNETT COUNTY, NC
 PHASE 6C

1+20 1+40 1+60 1+80 2+00 2+20 2+40 2+60 2+80 3+00
MATCHLINE C
 SEE SHEET C-6 FOR CONTINUATION OF MATCHLINE C (STA 3+05)

GEOTECHNICAL GENERAL NOTE:

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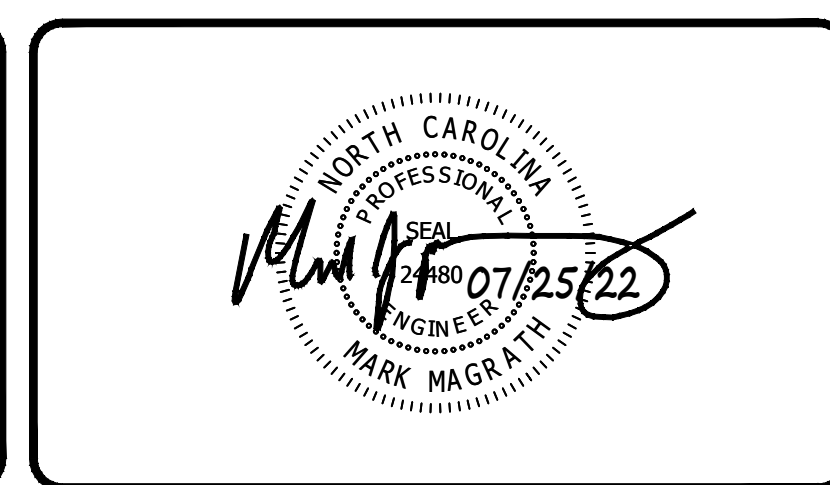
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LEGEND	
	GRIDLOK 370
	GRIDLOK 540

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SERENITY SUBDIVISION
 PHASES 6A & 6C - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

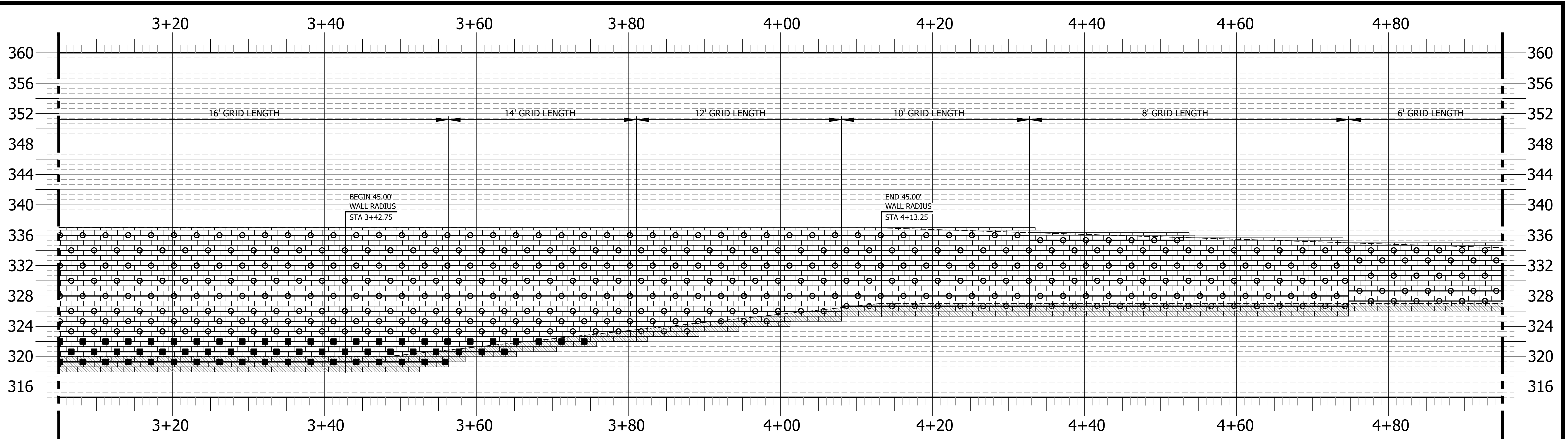
RETAINING WALL PROFILE #9 (Continued)
 SERENITY SUBDIVISION - HARNETT COUNTY, NC
 PHASES 6A & 6C

DATE: JULY 25, 2022
 DES: TLH
 DRAWN: TLH
 APPROVED: MJM

SCALE
 HORIZONTAL: N/A
 VERTICAL: N/A

DRAWING NUMBER
C-5

SERENITY SUBDIVISION - PHASES 6A & 6C RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA
 VE PROJECT NO: 00220001



MATCHLINE C
SEE SHEET C-5 FOR CONTINUATION OF MATCHLINE C (STA 3+05)

RETAINING WALL PROFILE #9 (Continued)
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - HARNETT COUNTY, NC
PHASE 6C

MATCHLINE D
SEE SHEET C-7 FOR CONTINUATION OF MATCHLINE D (STA 4+95)

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LEGEND

- ○ ○ ○ ○ GRIDLOK 370
- ■ ■ ■ ■ GRIDLOK 540

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DESCRIPTIONS	DATE



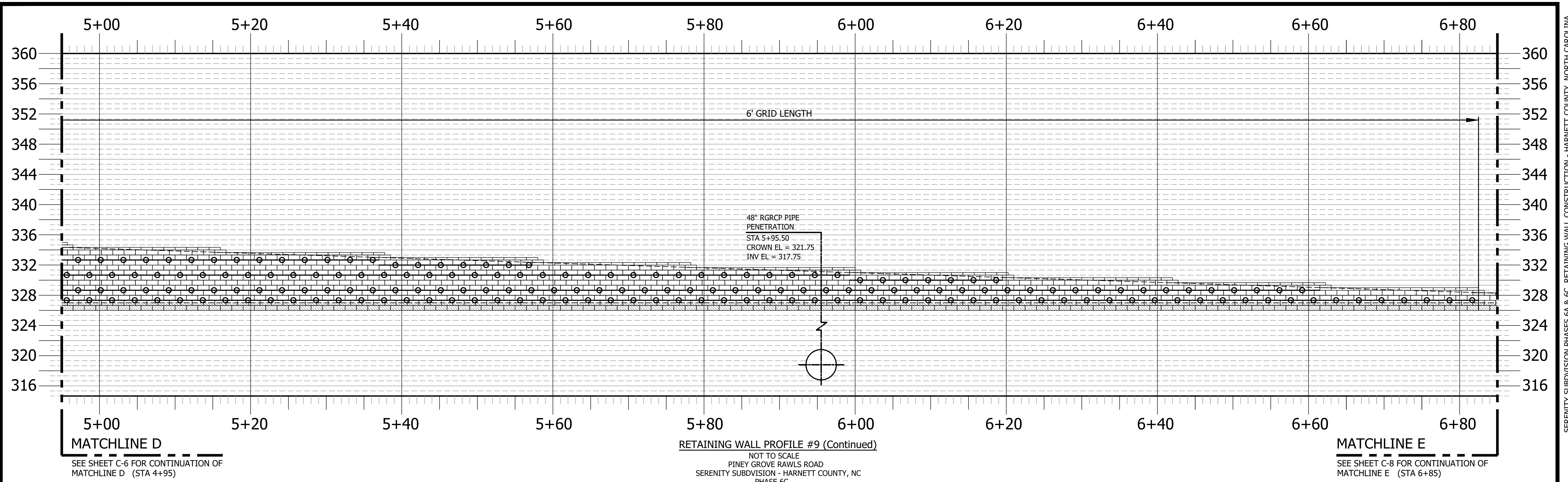
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SERENITY SUBDIVISION
PHASES 6A & 6C - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

RETAINING WALL PROFILE #9 (Continued)
SERENITY SUBDIVISION - HARNETT COUNTY, NC
PHASES 6A & 6C

DATE: JULY 25, 2022	SCALE	DRAWING NUMBER C-6
DES: TLH		
DRAWN: TLH		
APPROVED: MJM	HORIZONTAL: N/A	VERTICAL: N/A

SERENITY SUBDIVISION - PHASES 6A & 6C RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA
VE PROJECT NO: 00220001

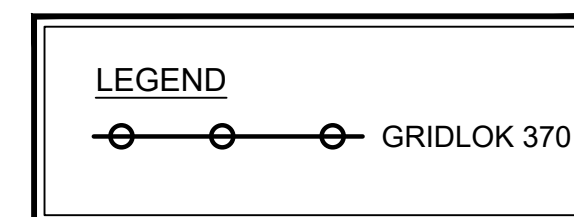


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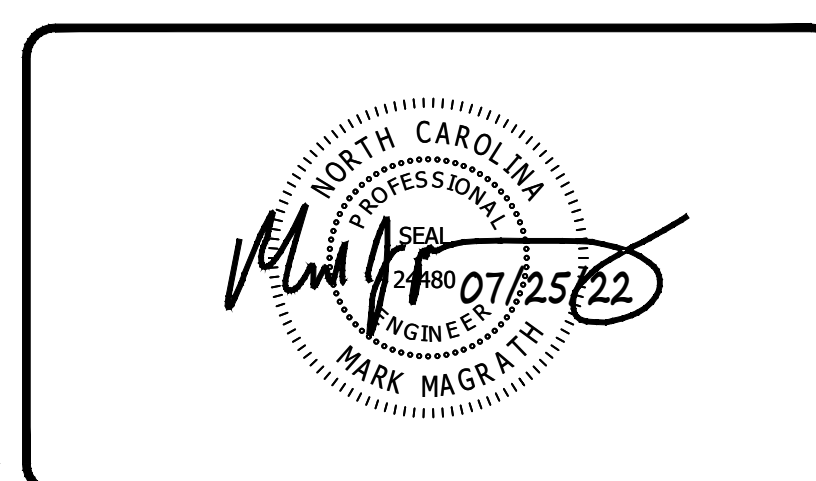
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SERENITY SUBDIVISION
 PHASES 6A & 6C - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

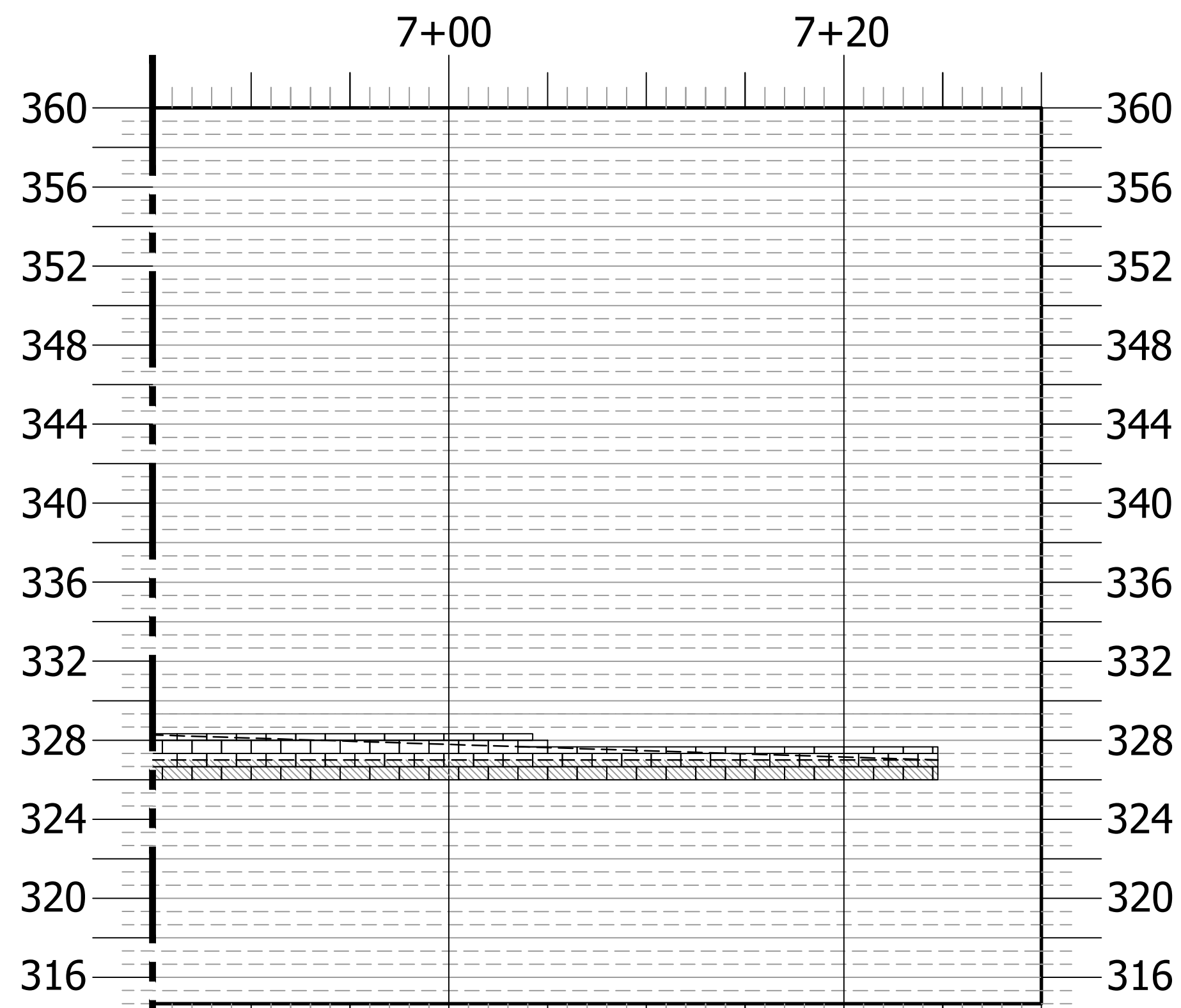
RETAINING WALL PROFILE #9 (Continued)
 SERENITY SUBDIVISION - HARNETT COUNTY, NC
 PHASES 6A & 6C

DATE: JULY 25, 2022
DES: TLH
DRAWN: TLH
APPROVED: MJM

SCALE
HORIZONTAL: N/A
VERTICAL: N/A

DRAWING NUMBER
C-7

SERENITY SUBDIVISION - PHASES 6A & 6C RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA



MATCHLINE E
SEE SHEET C-7 FOR CONTINUATION OF
MATCHLINE E (STA 6+85)

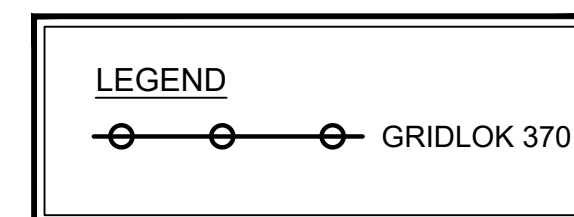
RETAINING WALL PROFILE #9 (Continued)
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - HARNETT COUNTY, NC
PHASE 6C

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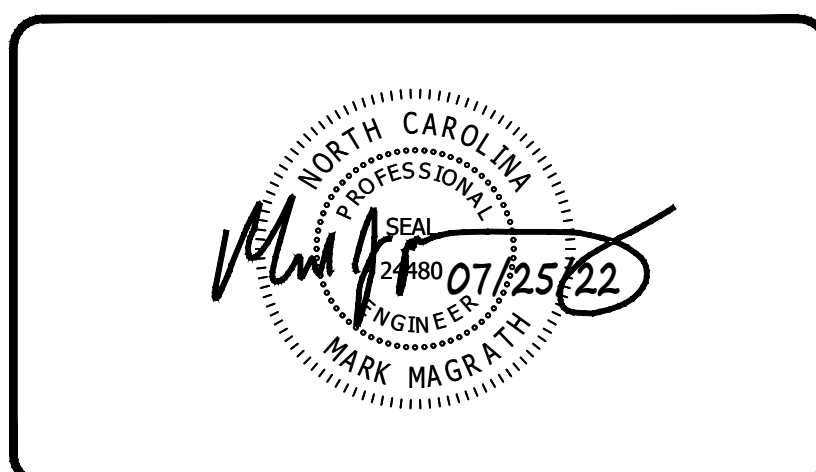
GENERAL DESIGN NOTE:

1. WALL PROFILES WERE CREATED & DESIGNED BY VENTURE ENGINEERING, P.A. PER EXISTING & PROPOSED GRADES AS SHOWN IN PLAN VIEW ON SHEET C-2 THRU C-2B AS PROVIDED BY THE JOHN R. McADAMS COMPANY, INC. DATED 06/09/21 (REVISION).
2. ALL GRADES SHOWN ON RETAINING WALL SITEPLAN IN THIS SET OF DRAWINGS ARE NOT KNOWN TO BE ORIGINAL DESIGN GRADES OR AS-BUILT GRADES. ALL GRADES TO BE SURVEY STAKED PRIOR TO CONSTRUCTION.



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DESCRIPTIONS	DATE



VE
Venture Engineering, P.A.
312 WEST MILLBROOK ROAD SUITE 237
RALEIGH, NC 27609
P: 919-676-0303 F: 919-676-0301
EMAIL ADDRESS: BMONDSCHIN@VENTURE-E.COM
LICENSE NO. C-2590

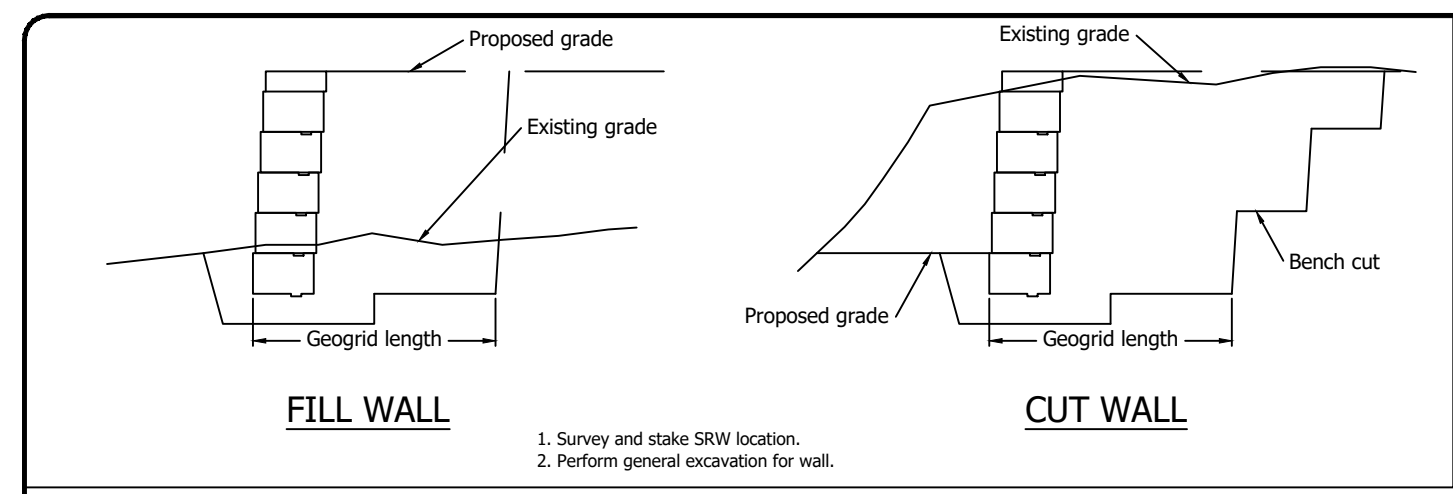
SERENITY SUBDIVISION
PHASES 6A & 6C - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

RETAINING WALL PROFILE #9 (Continued)
SERENITY SUBDIVISION - HARNETT COUNTY, NC
PHASES 6A & 6C

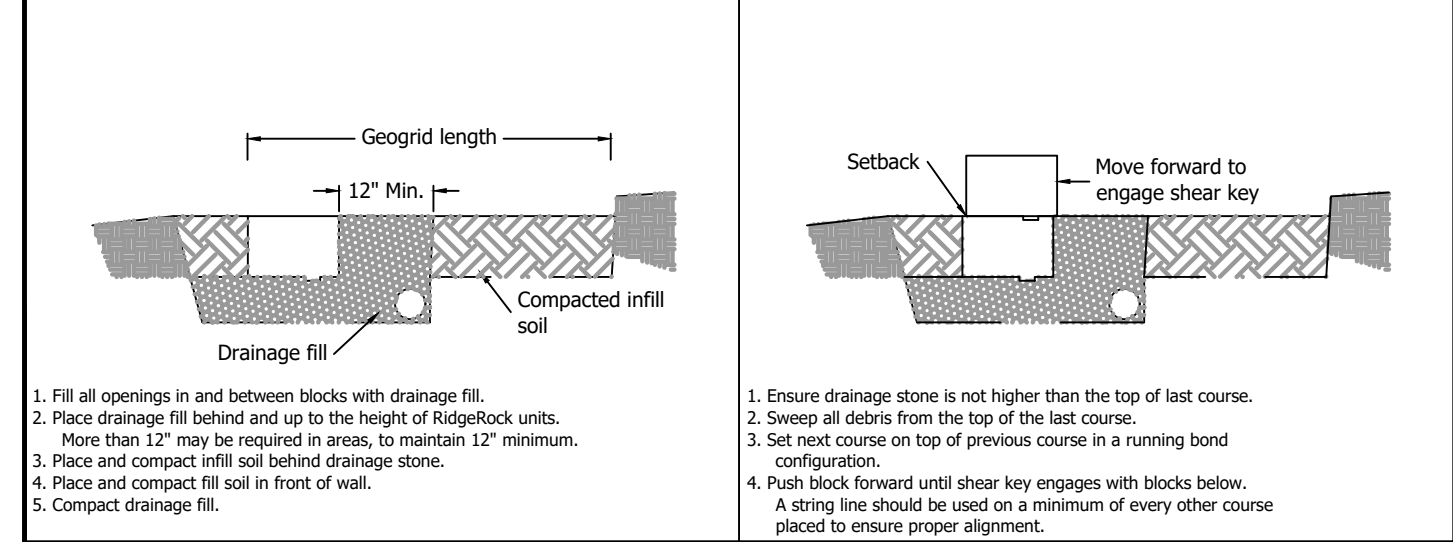
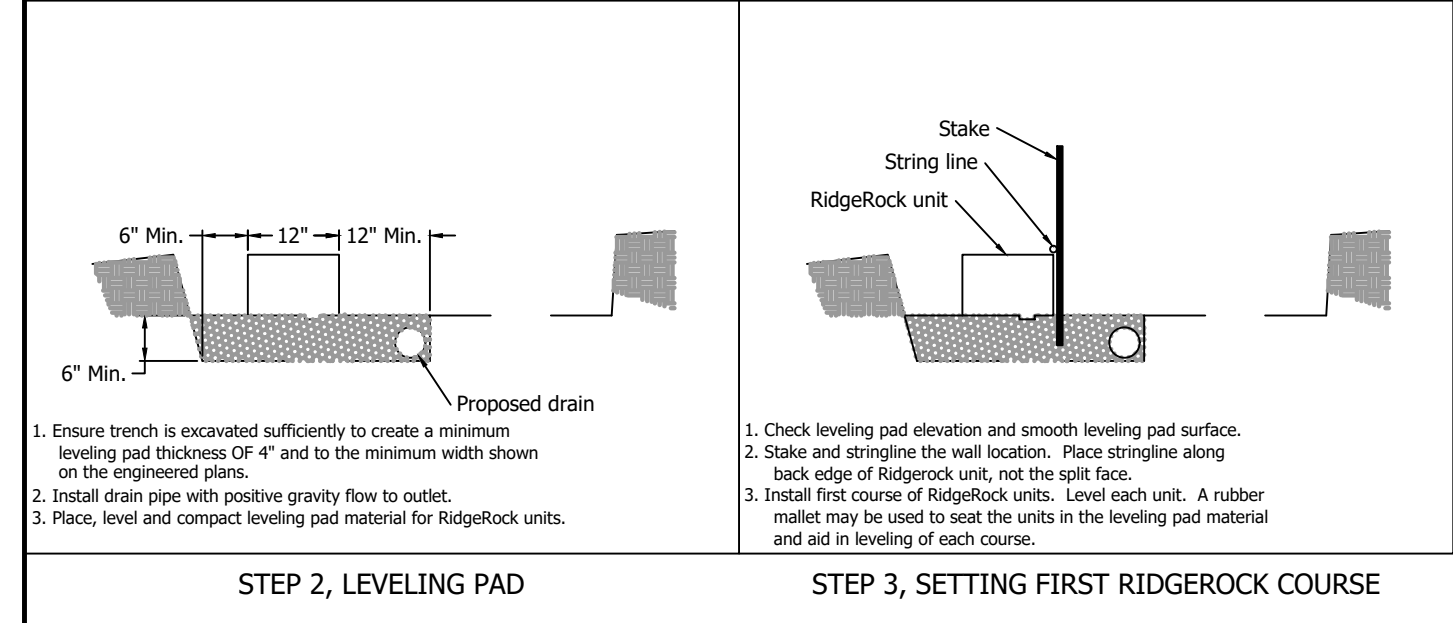
DATE: JULY 25, 2022
DES: TLH
DRAWN: TLH
APPROVED: MJM

SCALE
HORIZONTAL: N/A
VERTICAL: N/A

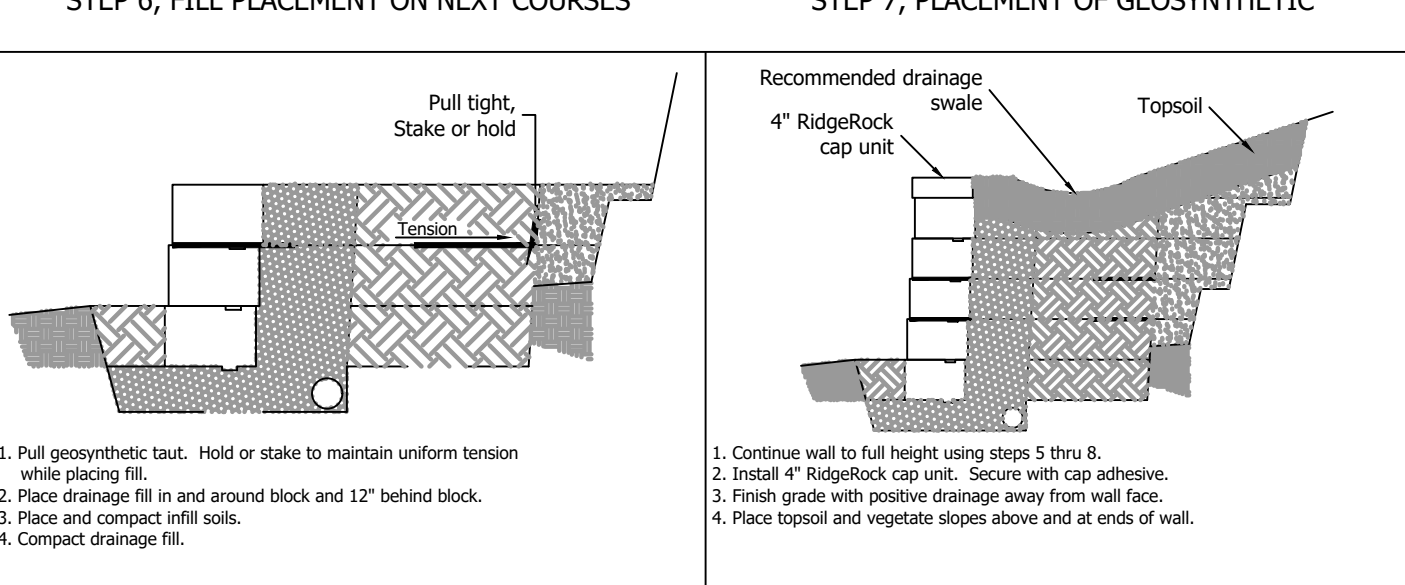
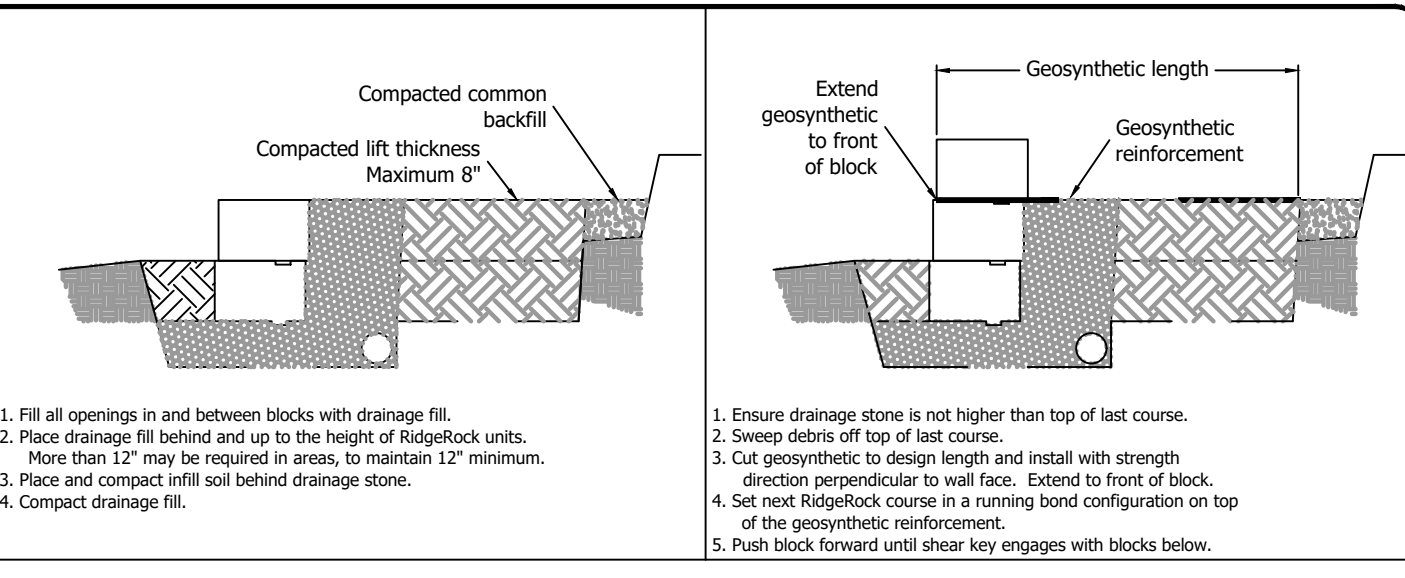
DRAWING NUMBER
C-7



STEP 1, WALL LAYOUT AND GENERAL EXCAVATION



STEP 6, FILL PLACEMENT ON NEXT COURSES

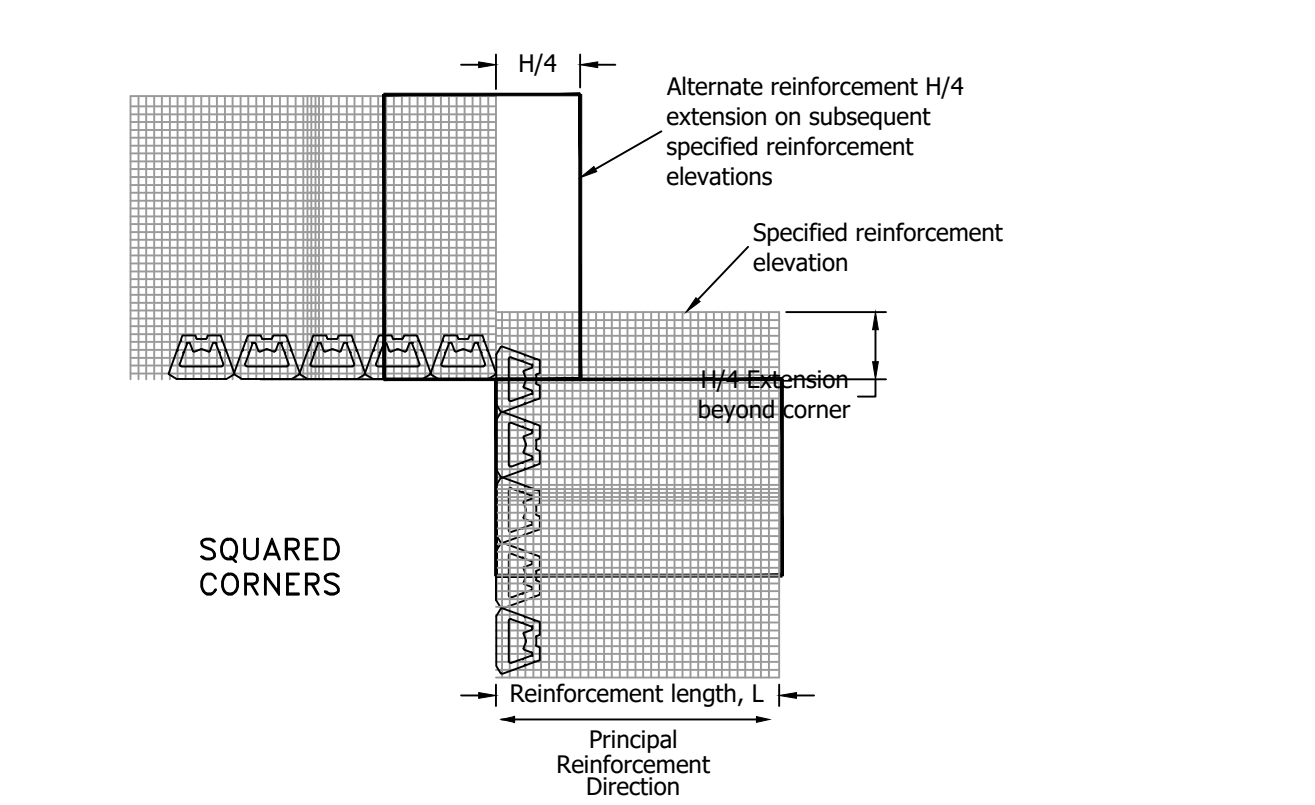
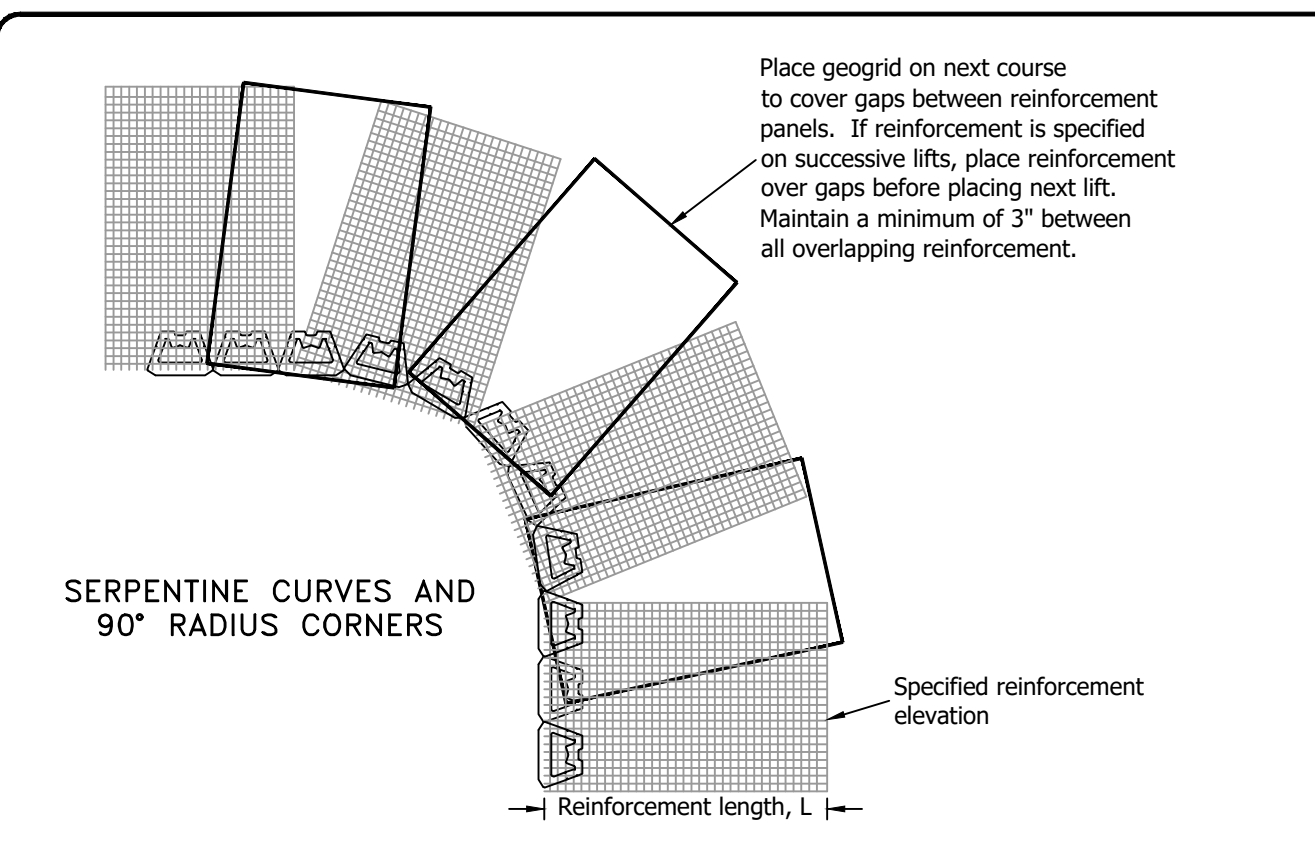


STEP 10, FINISH GRADE AND VEGETATION

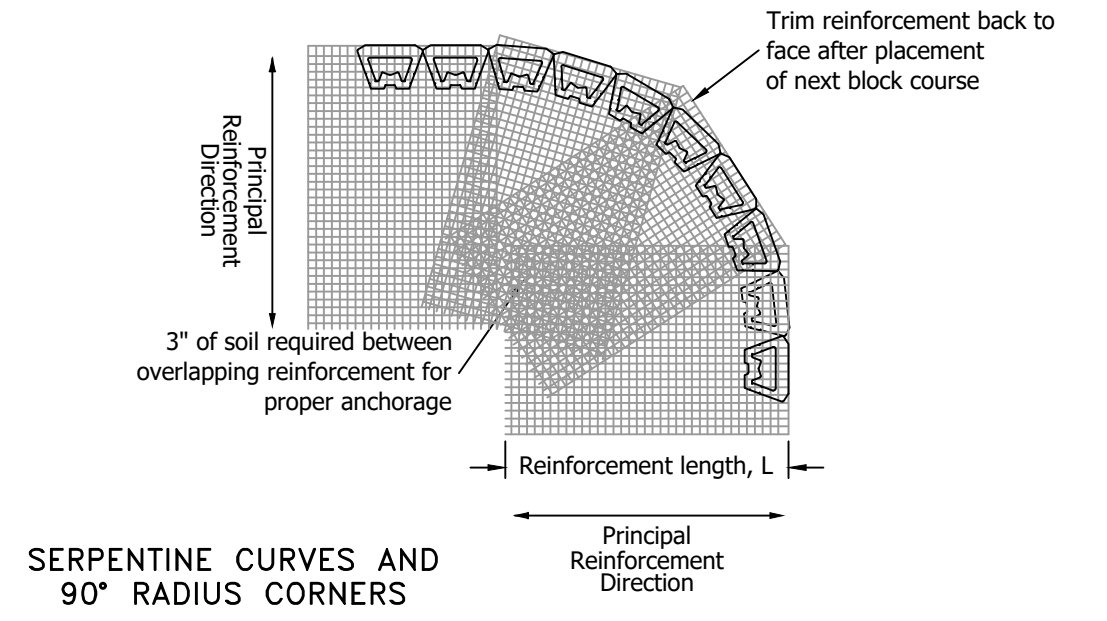
RIDGEROCK RETAINING WALL INSTALLATION PROCEDURE

RidgeRock Retaining Walls Inc.
 P.O. Box 241233
 Charlotte, NC 28224
 704-504-3358
 Fax: 504-3038

RIDGEROCK DETAILS	1 of 1 SHEET NO.	7/2001 DATE
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REINFORCEMENT PLACEMENT FOR CONCAVE CORNERS AND RADII



RIDGEROCK RETAINING WALL GEOTRID PLACEMENT ON CORNERS AND RADII

RIDGEROCK DETAILS	1 of 1 SHEET NO.	12/2005 DATE
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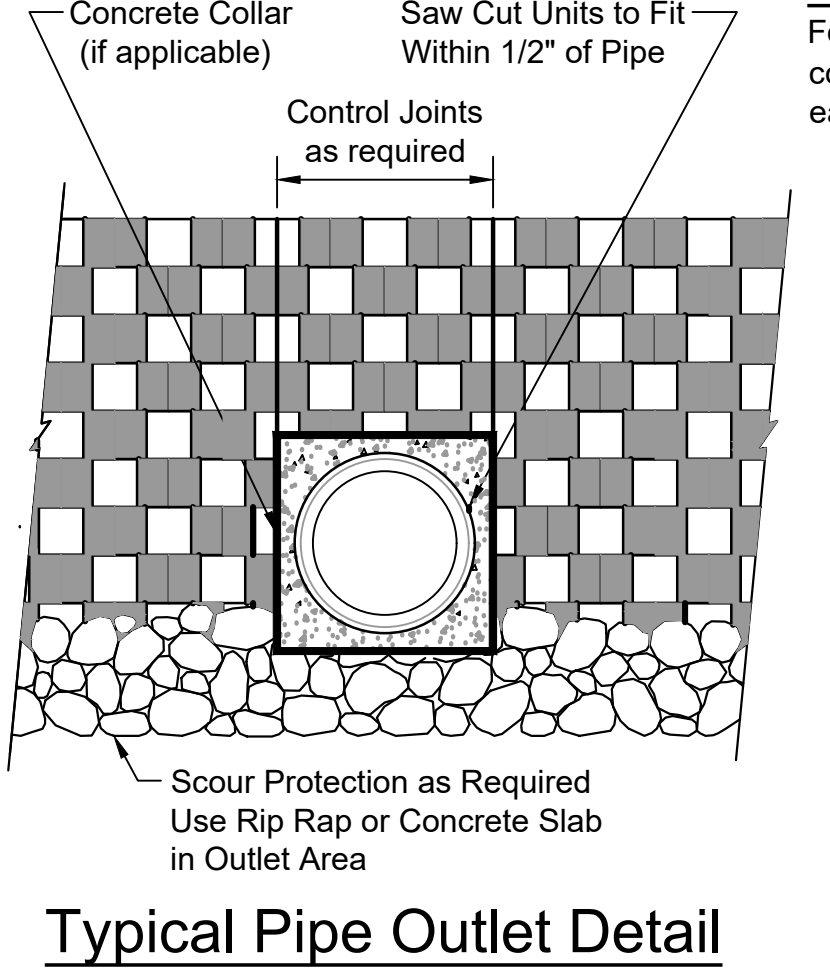
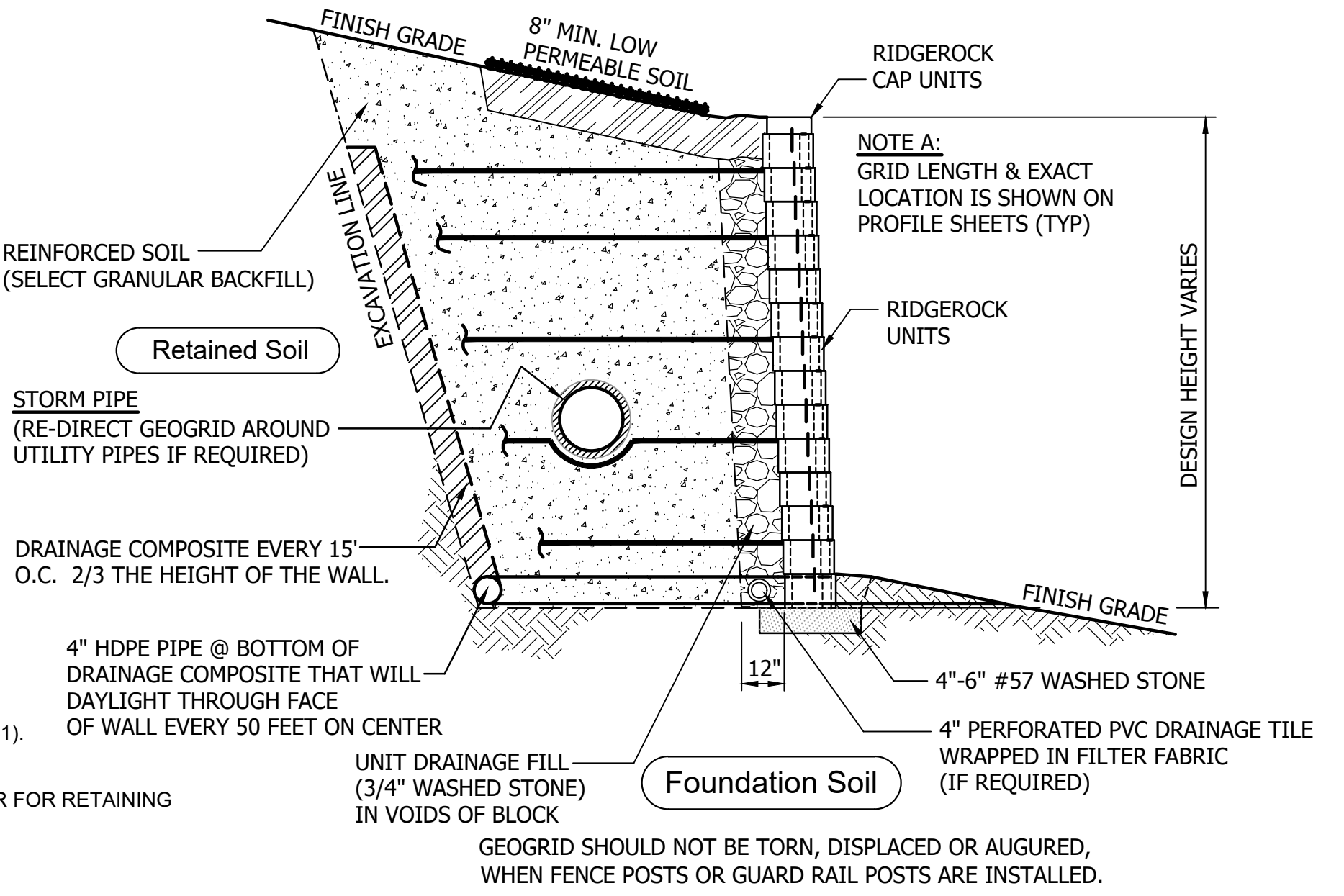
RidgeRock Retaining Walls Inc.
 P.O. Box 241233
 Charlotte, NC 28224
 704-504-3358
 Fax: 504-3038

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GENERAL DESIGN NOTE:

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Note:
 For pipes larger than 24", a concrete collar may be cast around pipe for ease of construction and appearance.

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 Venture Engineering, P.A.

NO.	DESCRIPTIONS	DATE



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 312 WEST MILLBROOK ROAD SUITE 237
 RALEIGH, NC 27609
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 EMAIL ADDRESS: BMONDSCH@VENTURE-E.COM
 LICENSE NO. C-2590

SERENITY SUBDIVISION
 PHASES 6A & 6C - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

DETAIL SHEET - SHEET 2 OF 2
 SERENITY SUBDIVISION - HARNETT COUNTY, NC
 PHASES 6A & 6C

DATE: JULY 25, 2022	SCALE	DRAWING NUMBER C-10
DES: TLH	HORIZONTAL: N/A	
DRAWN: TLH	VERTICAL: N/A	
APPROVED: MJM		

CONSTRUCTION DRAWINGS FOR

SERENITY

PHASES 1D, 1E, 2C, 2D, 2E, 2F, 2G, 6A, 6B, 6C, 6D, 6E, 6F & 6G
HARNETT COUNTY, NORTH CAROLINA
AUGUST 16, 2022

APPROVED

OCT 20 2022

HARNETT REGIONAL WATER
P.O. BOX 1119
LILLINGTON, NC 27546

CONSTRUCTION DRAWINGS
FOR: SERENITY
WR PROJECT NO. 02190647

SITE DATA	
PROJECT:	SERENITY SUBDIVISION
PROPERTY LOCATION:	PINEY GROVE RAWLS ROAD
PINS:	0655-23-9885, 0655-13-8762, 0655-03-4488, 0645-95-9146, 0645-82-8633, 0645-72-7454
ZONING:	RA-40, RA-30, CONSERVATION
TOWNSHIP:	HECTORS CREEK
PROPOSED USE:	RESIDENTIAL
TOTAL TRACT AREA:	579.43 ACRES

PRELIMINARY SUBDIVISION NOTES:
SIDEWALKS TO BE MAINTAINED BY THE HOME OWNERS ASSOCIATION (HOA), PROPERTY OWNERS ASSOCIATION (POA), CONDOMINIUM OWNERS ASSOCIATION (COA), OR ANY OTHER ASSOCIATION RESPONSIBLE FOR THE MAINTENANCE AND/OR UPKEEP OF THE RESIDENTIAL COMMUNITY SIDEWALK OR STREET TREE INSTALLATIONS THAT ARE DAMAGED AND/OR REMOVED BY HARNETT COUNTY DEPARTMENT OF PUBLIC UTILITIES/ HARNETT REGIONAL WATER OR ITS REPRESENTATIVES, AGENTS, OR CONTRACTORS AS A RESULT OF REPAIR/ MAINTENANCE OF THE PUBLIC WATER AND/OR SEWER LINE WILL BE REPLACED OR REPAIRED BY THE HOME OWNERS ASSOCIATION (HOA), PROPERTY OWNERS ASSOCIATION (POA), CONDOMINIUM OWNERS ASSOCIATION (COA), OR ANY OTHER ASSOCIATION RESPONSIBLE FOR THE MAINTENANCE AND/OR UPKEEP OF THE RESIDENTIAL COMMUNITY.

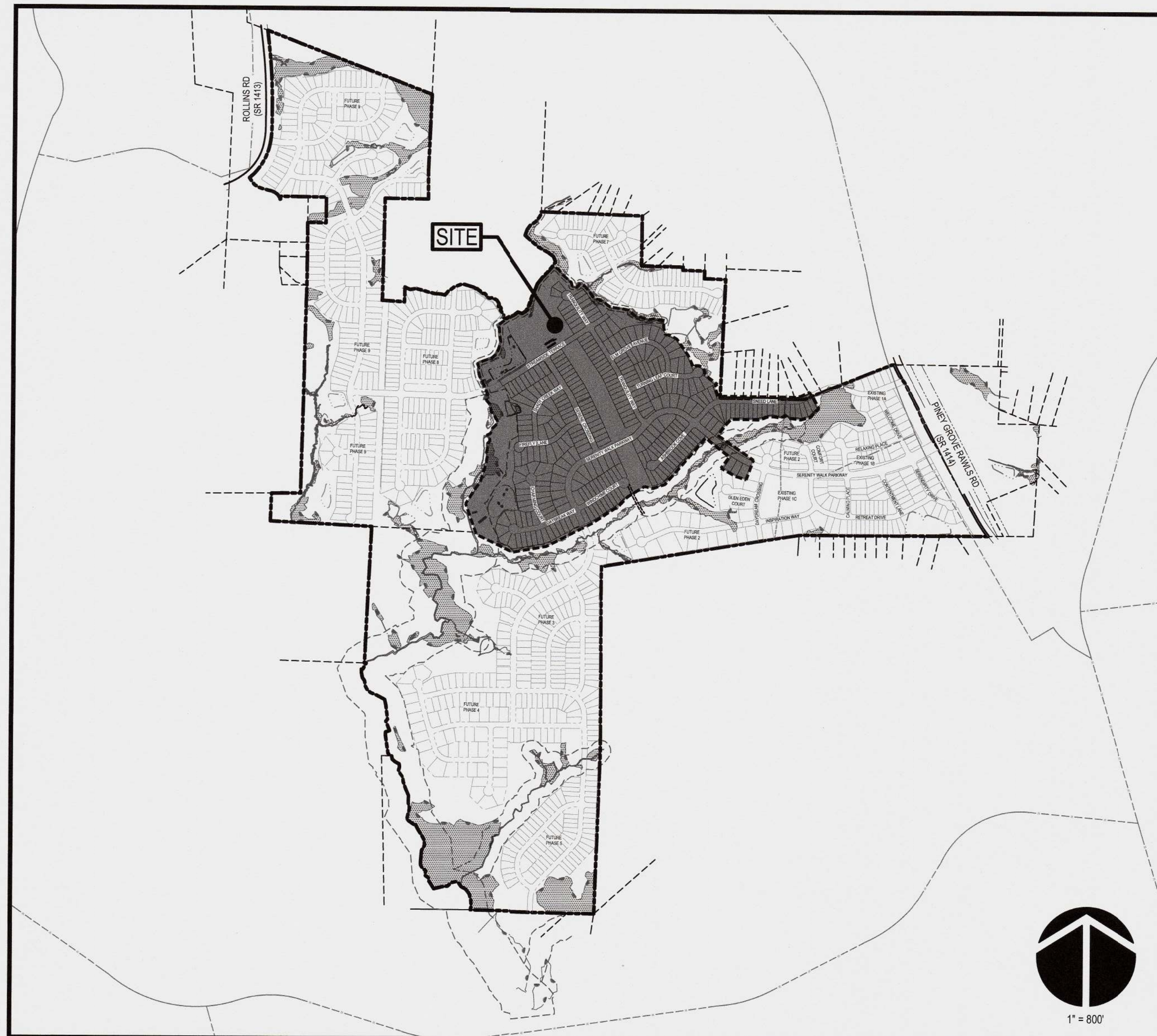
APPROVAL OF THIS PLAT/PLAN DOES NOT GUARANTEE WATER CAPACITY OR WASTEWATER CAPACITY. CURRENT/FUTURE CAPACITY MAY NOT BE AVAILABLE. THIS DEVELOPMENT MAY REQUIRE ADDITIONAL IMPROVEMENTS TO THE EXISTING WATER AND WASTEWATER SYSTEM TO MEET FUTURE WATER AND WASTEWATER DEMANDS PRIOR TO A PRELIMINARY PLAT, CONSTRUCTION PLAN AND/OR FINAL PLAT APPROVAL.

BOA APPROVAL: 07/09/2018
CONDITIONS:

- Garage:** Each single-family house inside product families S2, S3 & S4 shall provide at least a standard two-car garage. All other single family houses shall provide at least a one-car garage.
- Landscaping:** Each house shall provide one of the following: A) minimum of one tree for S1 & S2 product, B) minimum of one tree and four shrubs for S3 & S4, or C) minimum of eight shrubs.
- Amenity:** Amenity plan shall include a minimum of a cabana, a community pool with appropriate deck space, children's "hot" lot, lawn areas or ball fields, gazebos, appropriate parking, and pocket open space areas as outlined on the approved Concept Plan.
- Mail:** Mail pick-up may be provided either by a centralized mail kiosk area, by kiosks placed in individual sections of the community, or a combination of both (as required by USPS).
- Setbacks:** Lot setbacks should be as follows:
 - S1 Product:** minimum 20' front, 15' rear, 12' corner, and side yard options of 1) a zero-lot-line allowance with minimum 6' aggregate between units, or 2) 4' side setbacks.
 - S2 Product:** minimum 20' front, 5' side, 20' rear & 12' corner.
 - S3 Product:** minimum 20' front, 5' side, 20' rear & 12' corner.
 - S4 Product:** minimum 20' front, 5' side, 20' rear & 12' corner.
- Lot Ownership:** All units will be sold as individual lots.

NOTE:

- THIS DEVELOPMENT IS WITHIN ONE MILE OF A VOLUNTARY AGRICULTURAL DISTRICT.
- HOMEOWNER'S ASSOCIATION WILL BE RESPONSIBLE FOR MAINTENANCE OF PARKING AREAS, DRIVE AISLES, MAIL KIOSK, EASEMENTS/STORMWATER DEVICES, AND ALL LANDSCAPE BUFFERING.



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C1.1	OVERALL EXISTING CONDITIONS
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C4.1	OVERALL UTILITY PLAN
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C5.10	GRADING PLAN
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C8.5	PLAN AND PROFILE TRANQUILITY WAY STA. 9+50 - 22+00
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S2.0	AERIAL SEWER CROSSING 2
S2.1	CROSSING 2 DETAILS AND NOTES
S2.2	CROSSING 2 DETAILS AND QUANTITIES

CONTACT LIST

PROJECT ENGINEER ZACHARY L. FULLER, P.E. WITHERSRAVENEL, INC. 115 MACKENAN DRIVE, CARY, NC 27511 TELEPHONE: (919) 469-3340 zfuller@withersravenel.com	LANDSCAPE ARCHITECT DANIEL WHATLEY WITHERSRAVENEL, INC. 137 S WILMINGTON STREET, RALEIGH, NC 27601 TELEPHONE: (919) 469-3340 dwhatley@withersravenel.com
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PERMITTING AGENCIES

WATER & SEWER: HARNETT REGIONAL WATER	JAY MEYERS (jmaymeyers@harnett.org)
STORMWATER: NCDOT	CRAIG LEE (clee@ncdot.gov)
ROADS: NCDOT	LEE HINES (lhines@ncdot.gov)
EROSION CONTROL: NCDENR	JODI PACE (jodi.pace@ncdenr.gov)

DEVELOPER/OWNER

GREENFIELD SERENITY LLC.
8601 SIX FORKS ROAD, SUITE 270
RALEIGH, NC 27615
919-815-6469

ATTN: MATT BRUBAKER
EMAIL: MBRUBAKER@GREENFIELDCOMMUNITIES.COM

PREPARED BY:

WithersRavenel
Engineers . Planners | Surveyors

115 MacKenan Drive | Cary, NC 27511 | t: 919.469.3340 | license #: F-1479 | www.withersravenel.com



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CALL BEFORE YOU DIG.



9/20/2022

