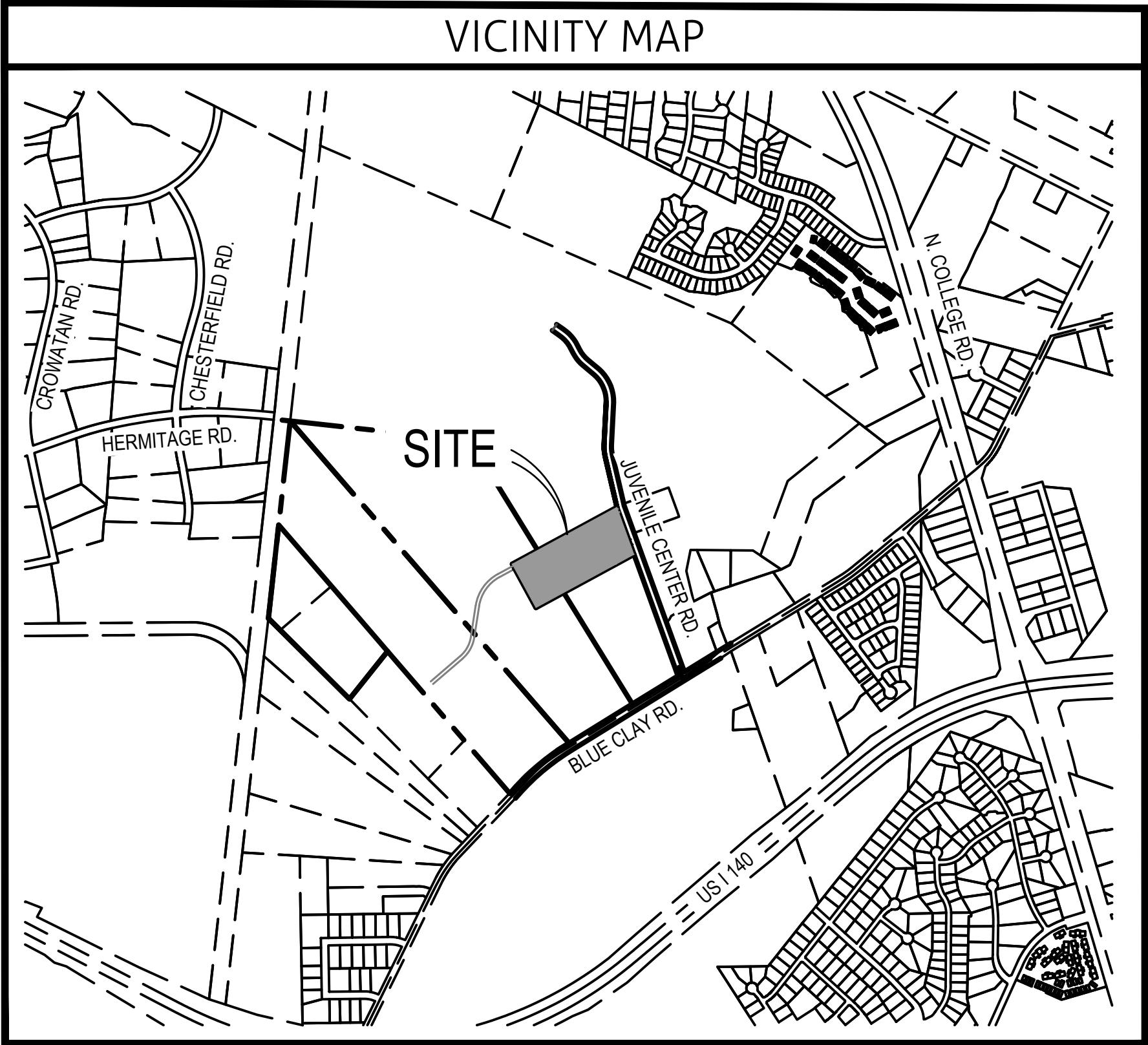


W:\21\21-0040\210642-new hanoover county emergency logistics\CAD\drawing and\construction\COVER.dwg - Tuesday, September 14, 2021 4:14:02 PM - CARSON, TOM

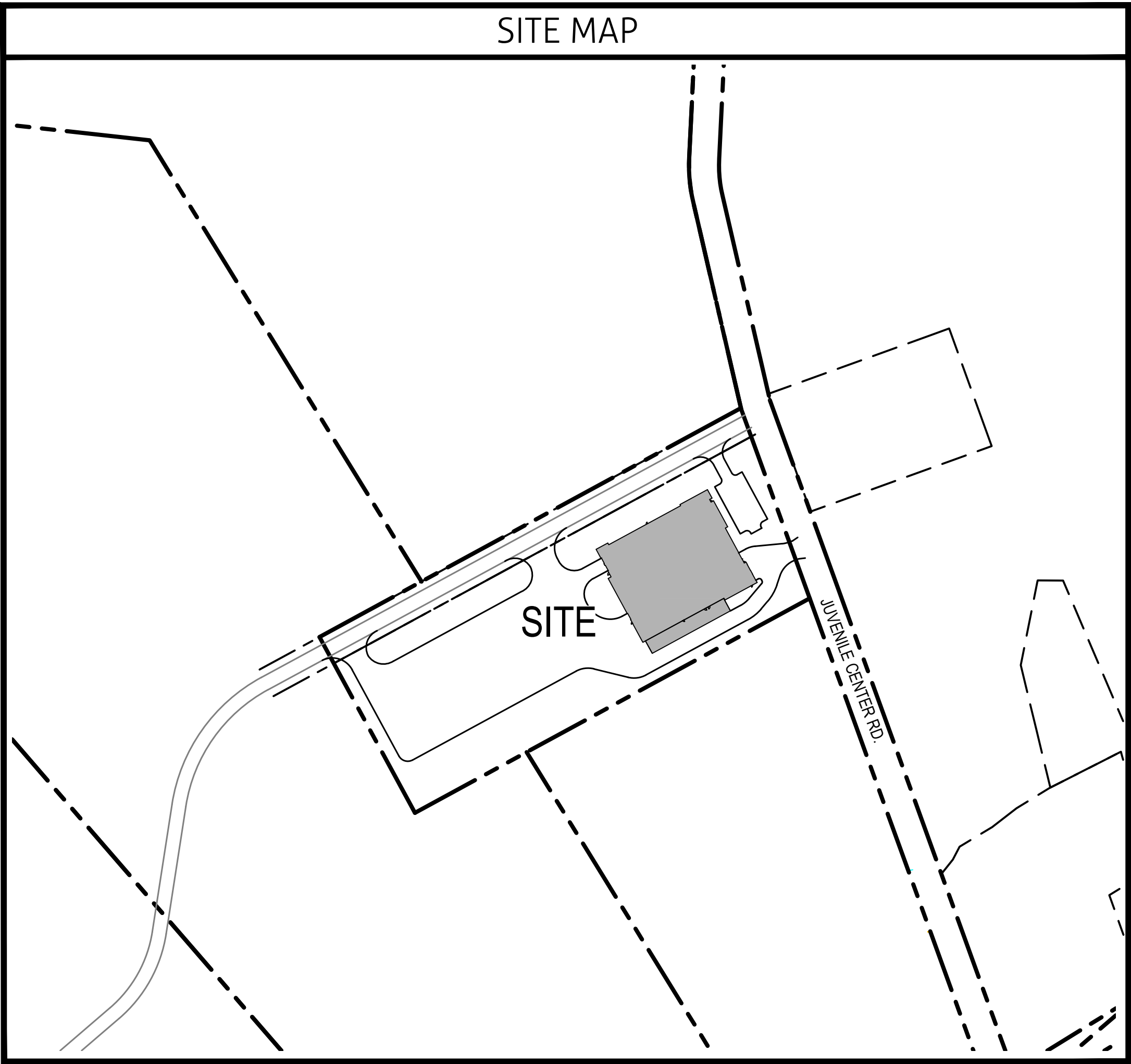
SITE PLANS FOR NEW HANOVER COUNTY EMERGENCY LOGISTICS FACILITY

NEW HANOVER COUNTY, NC

SEPTEMBER 2021



SCALE: 1" = 1000'

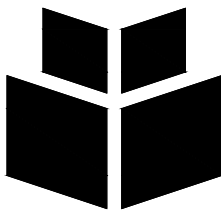


SCALE: 1" = 200'

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER
C1.0	EXISTING CONDITIONS PLAN
C1.2	TREE REMOVAL PLAN
C2.0	SITE PLAN
C3.0	GRADING AND DRAINAGE PLAN
C4.0	UTILITY PLAN

LEGEND	
LINETYPE DESCRIPTION	LINETYPE DESCRIPTION
EXISTING WATERLINE	PROPOSED UNDERGROUND ELECTRIC
PROPOSED WATERLINE	EXISTING GASLINE
EXISTING STORM DRAINAGE	PROPOSED GASLINE
PROPOSED STORM DRAINAGE	SILT FENCE
EXISTING SANITARY SEWER	TREE PROTECTION & SILT FENCE
PROPOSED SANITARY SEWER	FENCE
EXISTING FORCE MAIN	TREE PROTECTION
PROPOSED FORCE MAIN	TEMP. DIVERSION SWALE
EXISTING ELECTRIC (OVERHEAD)	RIGHT-OF-WAY
PROPOSED ELECTRIC (OVERHEAD)	EXISTING WETLANDS
EXISTING UNDERGROUND ELECTRIC	1' CONTOUR
EXISTING EASEMENT	5' CONTOUR
PROJECT BOUNDARY	PROPOSED EASEMENT

PREPARED BY:



WithersRavenel

Engineers | Planners | Surveyors

219 Station Road Suite 101 | Wilmington, NC 28405 | t: 910.256.9277 | license #: C-0832 | www.withersravenel.com



DEVELOPER/OWNER

NEW HANOVER COUNTY
200 DIVISION DRIVE
WILMINGTON, NC 28401
(910) 798-4338

ATTN: KEVIN CAISON

W:\2121\0400\21210402-new hanoover county emergency registered CAD\drawing info\construction\EXISTING CONDITIONS PL\N/A.dwg, Wednesday, September 1, 2021 10:25:05 AM, BHEBERSON

LINETYPE	
FENCE	- - - X - - - X - - - X - - - X - - - X - - -
WATER	- - - W - - - W - - - W - - -
PROPERTY LINE	- - - - -
OVERHEAD ELEC	- - - OHE - - - OHE - - -
SEWER	- - - SS - - - SS - - -
STORM DRAIN	- - - - -
GAS	- - - G - - - G - - -
FORCE MAIN(PER PLAN)	- - - FM - - - FM - - -

LEGEND	
POWER POLE	● PP
WATER VALVE	⊠ WV
STORM DRAIN MH	⊙ MH
SEWER MANHOLE	⊙ SSMH
CLEANOUT	• CO
CATCH BASIN	⊠ CB
WELL	⊙ W
SIGN	⊙ S
GAS VALVE	⊠ GV
WATER METER	⊠ WM
TRAFFIC SIGNAL	⊠ TSB
GUY WIRE	← GW

N/F
NEW HANOVER COUNTY
PIN: R01800-007-001-000
DB 459, PG 599

N/F
NORTH CAROLINA STATE OF
PIN: R01800-007-001-004
DB 5852, PG 2598
MB 54, PG 349

N/F
NEW HANOVER COUNTY
PIN: R01800-007-001-000
DB 459, PG 599

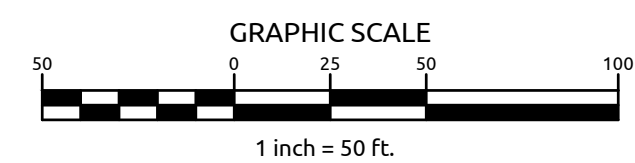
N/F
NEW HANOVER COUNTY
PIN: R01800-007-001-000
DB 459, PG 599

N/F
TRACT 2
NEW HANOVER COUNTY, NORTH CAROLINA
PIN: R02600-002-005-000
DB 5274, PG 257

AREA = 2,449,199 SF / 56.226 AC

NOTES:

1. FIELD SURVEY INCLUDING BOUNDARY, TOPOGRAPHY, AND TREE SURVEY PROVIDED BY BATEMAN CIVIL SURVEY COMPANY. DATED MAY 19, 2021.
2. WETLAND SURVEY PROVIDE BY TIMMONS GROUP, DATED JANUARY 4 2019.



Job No.	03210642
Date	8/26/2021
Drawn By	TMG
Designer	JSB



Revisions

W:\121-04040-230402-new hanover county emergency logistics CAD drawings\230402construction\TREE REMOVAL PLAN.dwg: Wednesday, September 15, 2021 7:59:52 AM - JB-DTD



GENERAL TREE MITIGATION NOTES:

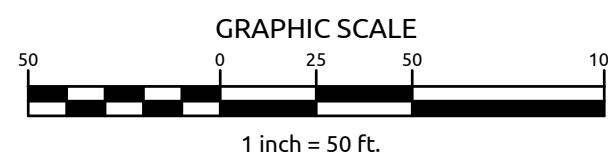
- REGULATED TREES:** HARDWOOD TREES AT LEAST 8" DBH, ALL CONIFER TREES AT LEAST 12" DBH, AND ALL DOGWOODS AND AMERICAN HOLLIES LARGER THAN 4" DBH ANYWHERE ON THE SITE SHALL BE CONSIDERED PROTECTED AND SHALL BE PRESERVED TO THE GREATEST EXTENT PRACTICAL AND INCORPORATED INTO REQUIRED LANDSCAPING.
1.1. 564 REGULATED TREES SHALL BE REMOVED
- SIGNIFICANT TREES:** HARDWOOD AND CONIFER TREES AT LEAST 24" DBH, AND DOGWOODS, AMERICAN HOLLIES AND FLOWERING TREES AT LEAST 8" DBH ANYWHERE ON THE SITE SHALL BE CONSIDERED PROTECTED, AND MUST BE PRESERVED OR THEIR REMOVAL MITIGATED AS HEREINAFTER PROVIDED, REGARDLESS OF LOCATION ON THE SITE, UNLESS THE TREES ARE SHOWN TO BE DEAD DYING OR SEVERELY DAMAGED OR DISEASED AS A RESULT OF NATURAL FACTORS.
2.1. 7 SIGNIFICANT TREES SHALL BE REMOVED
- REASONS FOR CLEARING THE NOTED TREES INCLUDE THE FOLLOWING:
3.1. TREES COVER MORE OF THE SITE AREA THAN IS REQUIRED TO BE LANDSCAPED AND THE PARCEL WILL BE FULLY USED.
3.2. IT IS IMPOSSIBLE TO POSITION BUILDINGS ON THE PARCEL AND MEET SETBACK REQUIREMENTS WITHOUT TREE REMOVAL.
- NEW HANOVER COUNTY TREE MITIGATION REQUIREMENTS:
4.1. TOTAL CALIPER OF SIGNIFICANT TREES REMOVED = 73"
4.2. 12" X 2 = 146" TOTAL CALIPER
4.3. DEVELOPMENT TO USE 3" CALIPER REPLACEMENT TREES OF SIMILAR SPECIES
4.3.1. 49 - 3" CALIPER REPLACEMENT TREES REQUIRED FOR MITIGATION BEFORE RECORDATION OF FINAL PLAT.
- A MINIMUM OF 15 TREES AT LEAST 2" IN DIAMETER (MEASURED 6" ABOVE THE GROUND) SHALL BE RETAINED OR PLANTED ON THE PARCEL FOR EACH ACRE OR PROPORTIONATE AREA DISTURBED BY DEVELOPMENT.
5.1. SITE AREA: 314,088 SF (7.21 AC) x 15 = 109
109 TREES REQUIRED
119 TREES RETAINED
0 2" CALIPER TREES TO BE PLANTED
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES, AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- TREES IN THE FUTURE RIGHT OF WAY TO BE REMOVED ARE NOT INCLUDED IN THIS PLAN SET. THEY ARE TO BE ASSOCIATED WITH ROADWAY PROJECT BY OTHERS.

LEGEND:

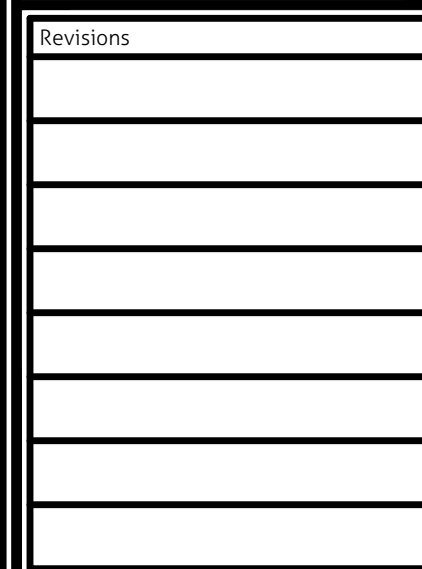
- REGULATED TREES TO BE REMOVED
- SIGNIFICANT TREES TO BE REMOVED

NOTES:

- CONTRACTOR REQUIRED TO OBTAIN DEMOLITION PERMIT(S) FROM NEW HANOVER COUNTY.
- TREE SURVEY PROVIDED BY BATEMNAN CIVIL SURVEY COMPANY, DATED MAY 19, 2021.



Job No. 03210642	
Date 8/26/2021	Drawn By TM
ISB	Designer TM



C2.0

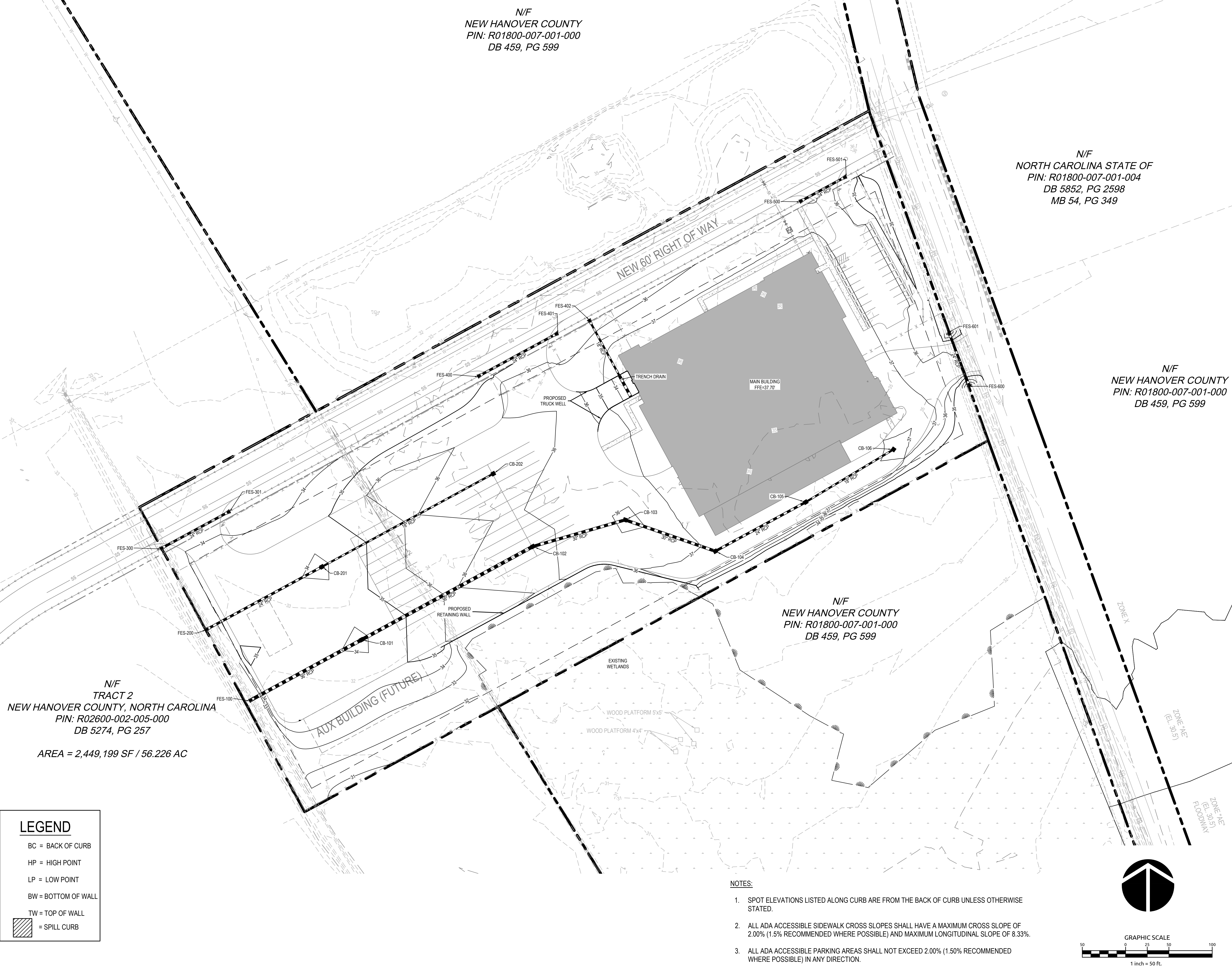


Job No. 03210642	
Date 8/26/2021	Drawn By TM
JSB	Designer TM

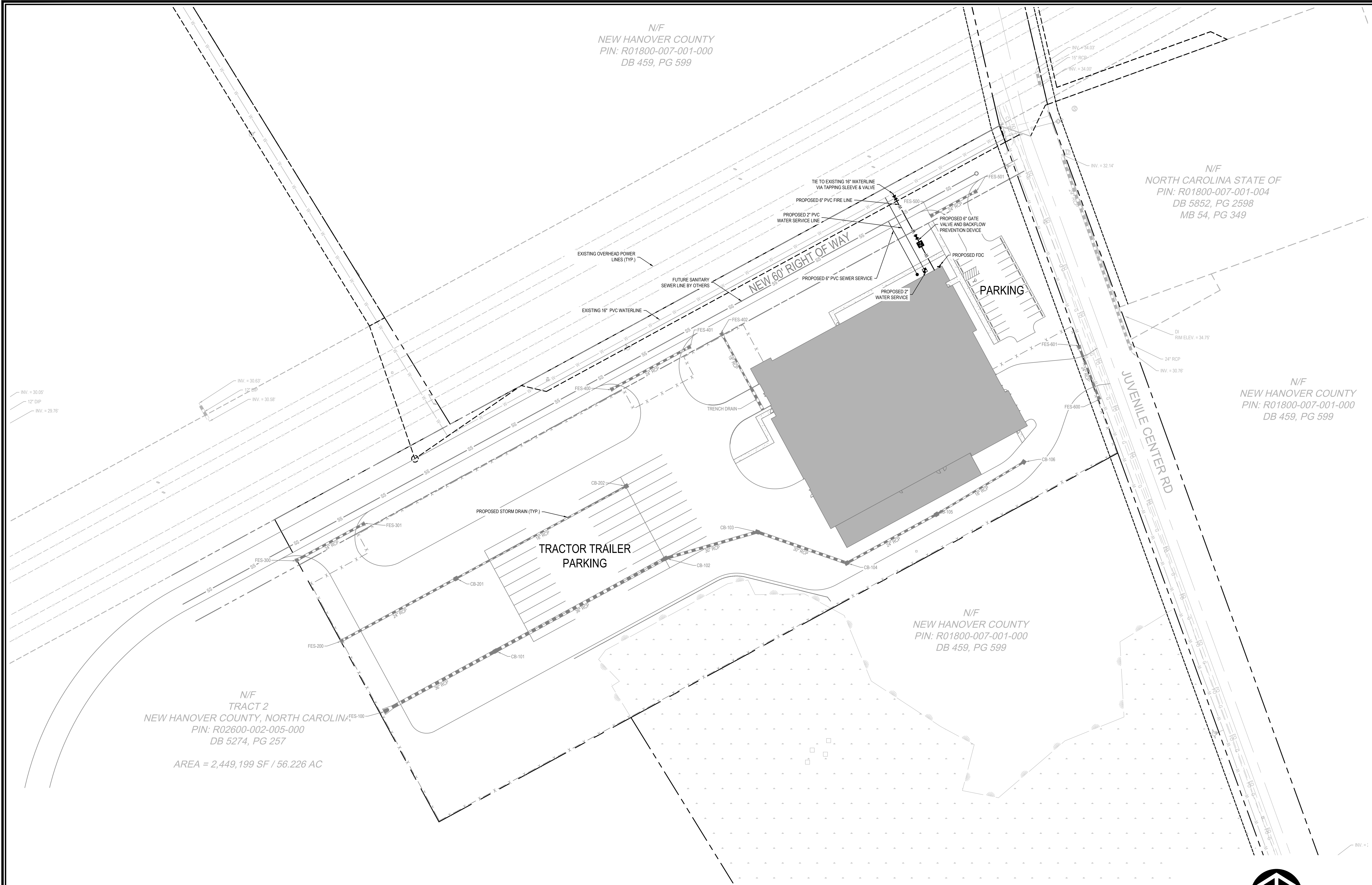
PRELIMINARY
NOT APPROVED FOR
CONSTRUCTION
ENGINEER
JOSEPH S. BOYD

Sheet No. _____

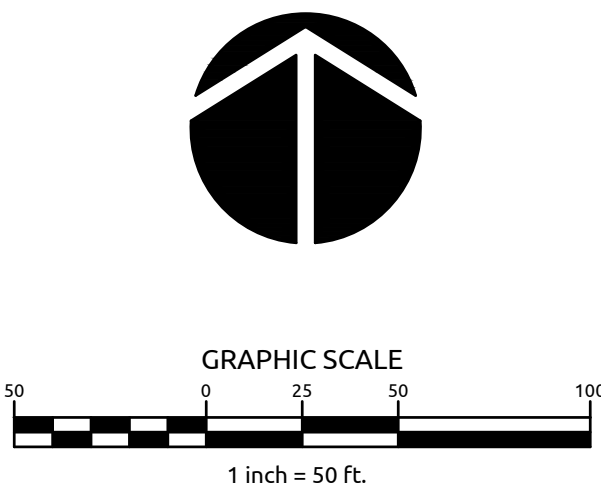
Sheet No. _____



w:\212 0460\2120460-new hanoover county emergency logistics facility\cadd\drawing\pds\construction\UTILITY PLAN.dwg Wednesday, September 15, 2021 7:50:59 AM - JBTD



- NOTES:
1. GENERAL CONTRACTOR TO PROVIDE CIRCUITS, CONDUITS CONDUCTORS.
 2. CONTRACTOR TO COORDINATE WITH NEW HANOVER COUNTY ON TAPPING WATERLINES.



WithersRavenel

Engineers | Planners | Surveyors

210 Station Road | Ste 101 | Wilmington, NC 28405 | T: 910.256.9277 | License # C-9822 | www.withersravenel.com

NEW HANOVER COUNTY EMERGENCY LOGISTICS FACILITY

NEW HANOVER COUNTY NORTH CAROLINA

UTILITY PLAN

Job No. 03210642

Date 8/26/2021 Drawn By TMG

JSB Designer TMG

PRELIMINARY
NOT APPROVED FOR
CONSTRUCTION

Revisions

Sheet No.

C4.0