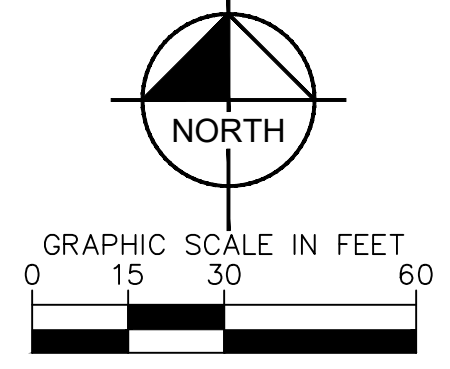


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MATCHLINE - SEE TREE CANOPY PLAN C3.11



MATCHLINE - SEE TREE CANOPY PLAN C3.12



TREE LEGEND

- EXISTING TREE CANOPY ELIGIBLE FOR RETENTION CREDIT - 10.49 AC
- EXISTING UNIMPACTED HIGH QUALITY TREE CANOPY TO BE RETAINED - 0.53 AC
- EXISTING IMPACTED HIGH QUALITY TREE CANOPY TO BE RETAINED TO THE GREATEST EXTENT POSSIBLE - 0.35 AC
- EXISTING TREE WITH TAG NUMBER. SEE SHEET 6 & 7 OF THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR TREE TABLE (TYP)

TREE CANOPY PLAN NOTES

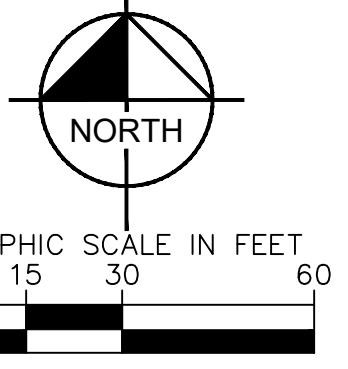
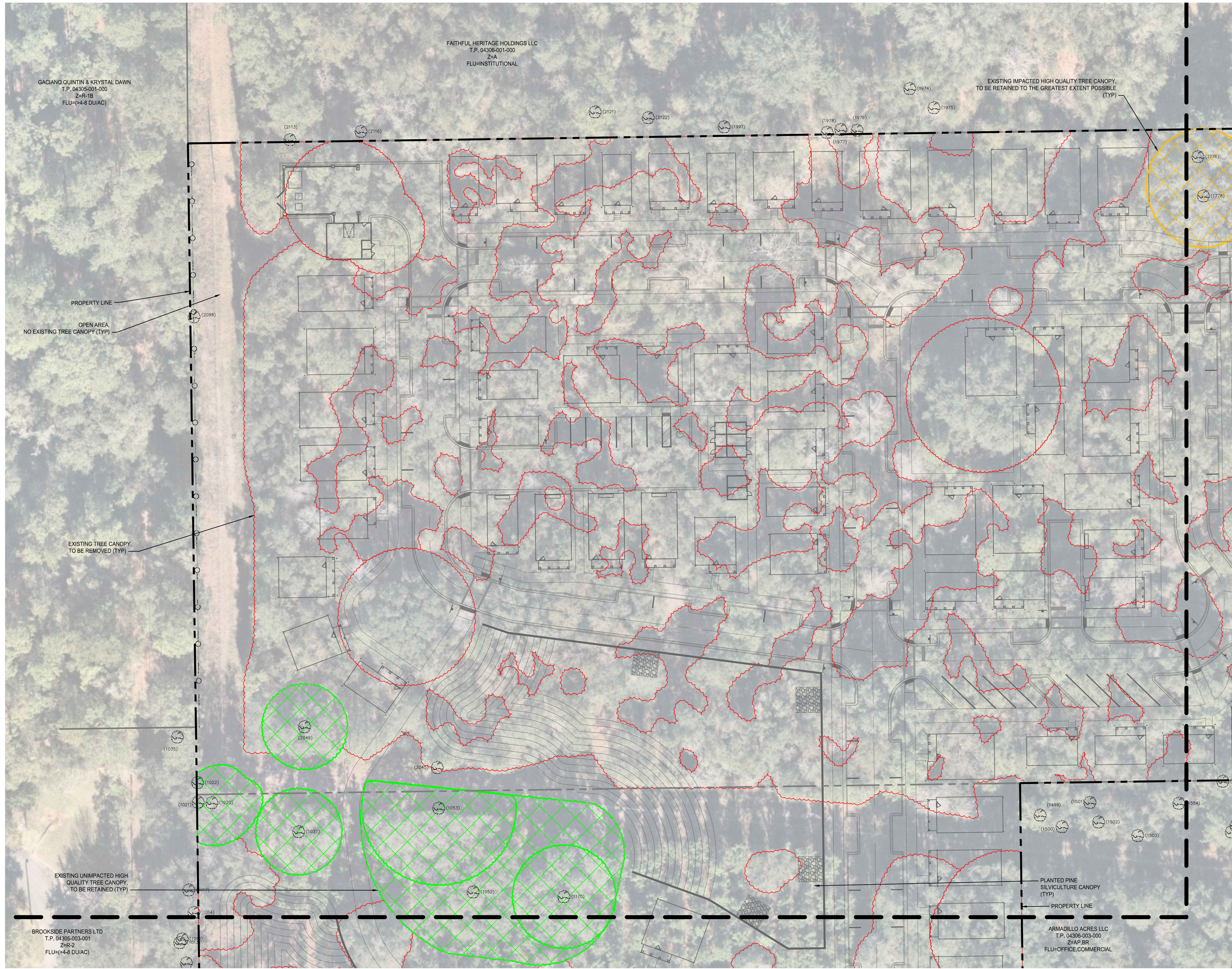
1. ULDC § 406.12(2) REQUIRES THAT TRADITIONAL NEIGHBORHOOD DEVELOPMENTS SHALL BE DESIGNED SUCH THAT A MINIMUM OF 5% OF THE TREE CANOPY SHOWN ON THE MOST RECENT AERIALS OF THE PROPERTY AVAILABLE AT THE TIME OF APPLICATION IS RETAINED.

TREE CANOPY			
EXISTING (AC)	MIN REQUIRED (AC)	RETAINED (AC)	RETAINED % OF TOTAL
10.49	0.52	0.53	5.05%

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	DATE DECEMBER 2023	DRAWN BY KHA	
TREE CANOPY PLAN	SCALE AS SHOWN	FLORIDA LICENSE NUMBER 66531	REVISIONS
SHEET NUMBER C3.10	DRAWN BY KHA	CHECKED BY KHA	DATE BY

K:\01_Civil\14220000-Gainesville Cottages\03_Plan_Sheets\3] Final_Development_Plan\03_C3.10_TREE_CANOPY_PLAN.dwg, Layout: C3.11 TREE CANOPY PLAN, Dec 21, 2023, delaney.mackinnon
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TREE LEGEND

- EXISTING TREE CANOPY ELIGIBLE FOR RETENTION CREDIT - 10.49 AC
- EXISTING UNIMPACTED HIGH QUALITY TREE CANOPY TO BE RETAINED - 0.53 AC
- EXISTING IMPACTED HIGH QUALITY TREE CANOPY TO BE RETAINED TO THE GREATEST EXTENT POSSIBLE - 0.35 AC
- EXISTING TREE WITH TAG NUMBER, SEE SHEET 6 & 7 OF THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR TREE TABLE (TYP)

TREE CANOPY PLAN NOTES

1. ULDC § 406.12(2) REQUIRES THAT TRADITIONAL NEIGHBORHOOD DEVELOPMENTS SHALL BE DESIGNED SUCH THAT A MINIMUM OF 5% OF THE TREE CANOPY SHOWN ON THE MOST RECENT AERIALS OF THE PROPERTY AVAILABLE AT THE TIME OF APPLICATION IS RETAINED.

TREE CANOPY			
EXISTING (AC)	MIN REQUIRED (AC)	RETAINED (AC)	RETAINED % OF TOTAL
10.49	0.52	0.53	5.05%

MATCHLINE - SEE TREE CANOPY PLAN C3.10

MATCHLINE - SEE TREE CANOPY PLAN C3.12

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 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER 66551
 KHA PROJECT 142425000
 DATE DECEMBER 2023
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY KHA
 CHECKED BY KHA DATE

TREE CANOPY PLAN

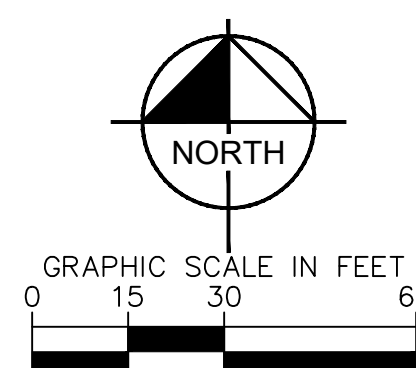
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MATCHLINE - SEE TREE CANOPY PLAN C3.11



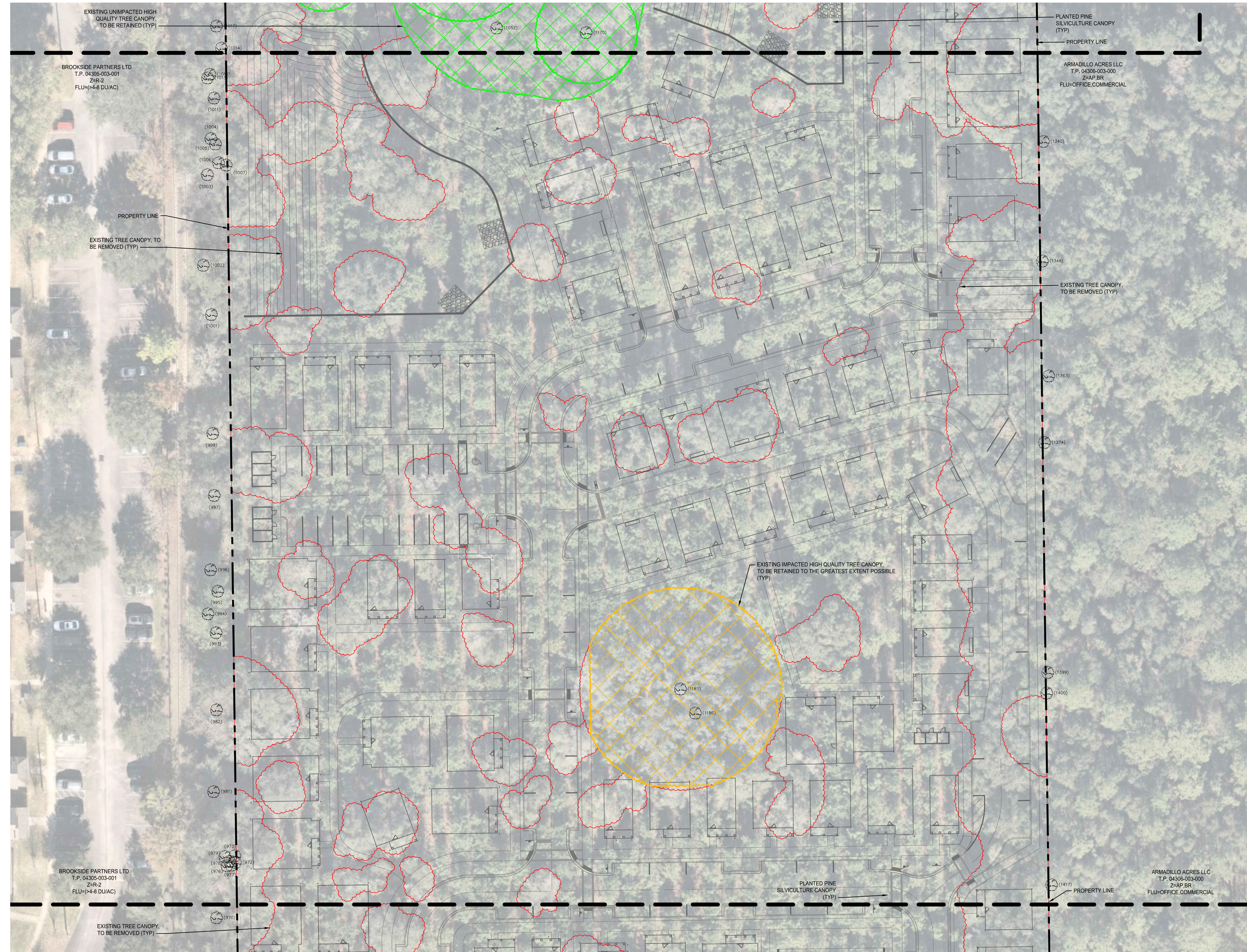
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- EXISTING TREE WITH TAG NUMBER, SEE SHEET 6 & 7 OF THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR TREE TABLE (TYP)

TREE CANOPY PLAN NOTES

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TREE CANOPY			
EXISTING (AC)	MIN REQUIRED (AC)	RETAINED (AC)	RETAINED % OF TOTAL
10.49	0.52	0.53	5.05%



MATCHLINE - SEE TREE CANOPY PLAN C3.13

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LICENSED PROFESSIONAL
 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER
 66551

TREE CANOPY PLAN

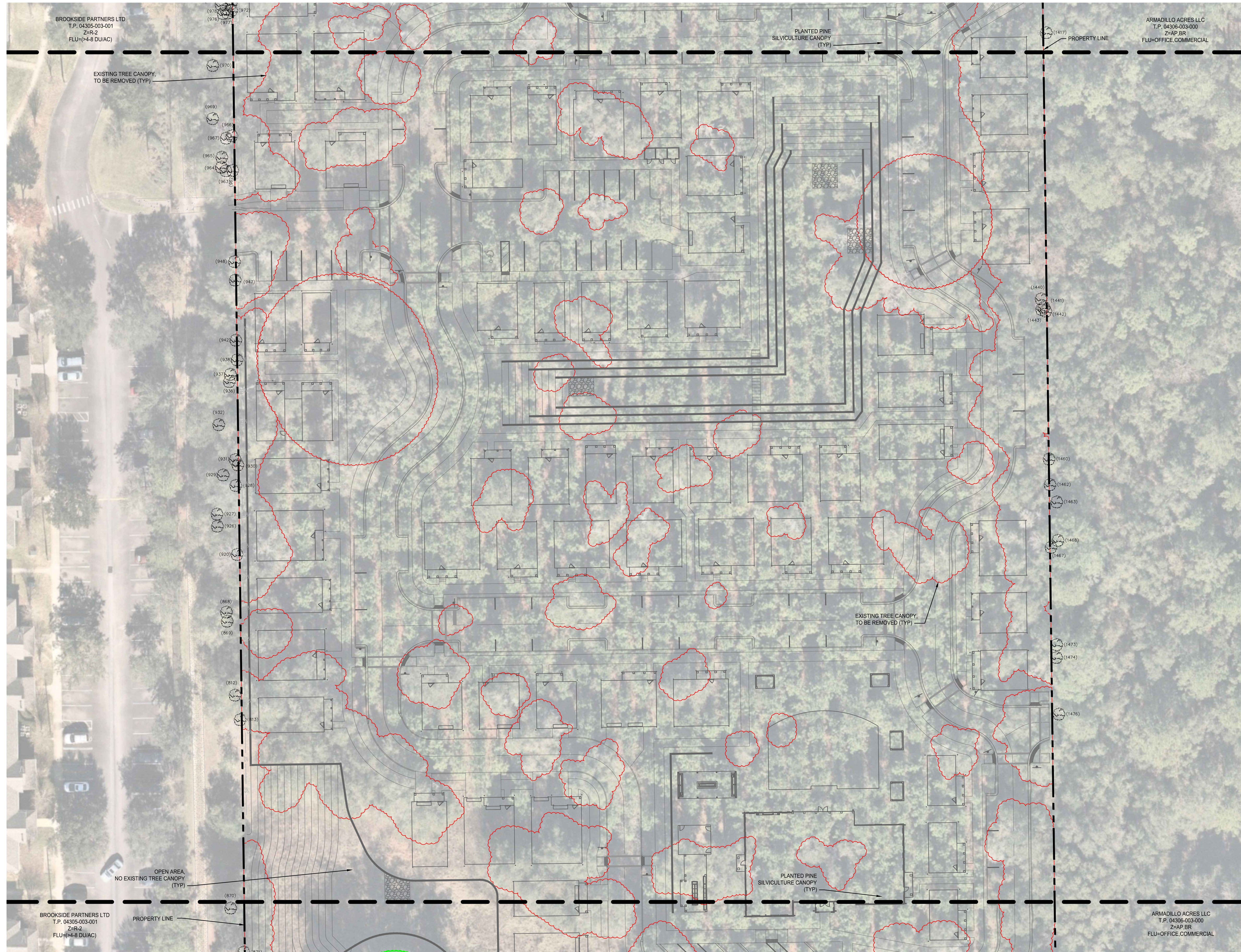
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 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C3.12

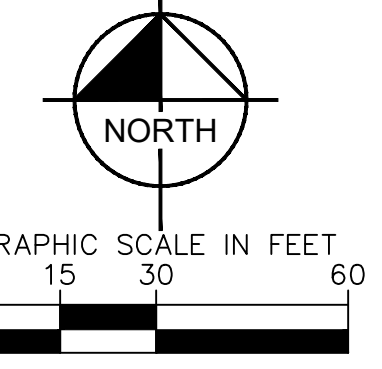
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K:\01_Civil\14220000-Gainesville Cottages\03 Final Development Plans\C3.00 TREE CANOPY PLAN.dwg, Layout\C3.12 TREE CANOPY PLAN, Dec 21, 2023, elowenymark
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MATCHLINE - SEE TREE CANOPY PLAN C3.12



MATCHLINE - SEE TREE CANOPY PLAN C3.14



TREE LEGEND

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- EXISTING IMPACTED HIGH QUALITY TREE CANOPY TO BE RETAINED TO THE GREATEST EXTENT POSSIBLE - 0.35 AC
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TREE CANOPY PLAN NOTES

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TREE CANOPY			
EXISTING (AC)	MIN REQUIRED (AC)	RETAINED (AC)	RETAINED % OF TOTAL
10.49	0.52	0.53	5.05%

No.	REVISIONS	DATE	BY

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 PHONE: 352-374-3274
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER
 66531
 DESIGNED BY: KHA
 DRAWN BY: KHA
 CHECKED BY: KHA
 DATE:

TREE CANOPY PLAN

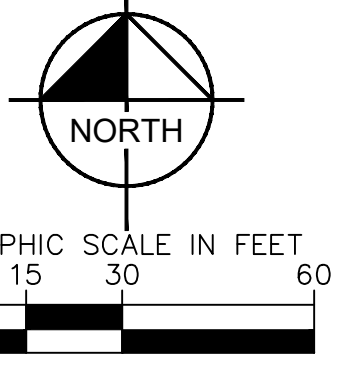
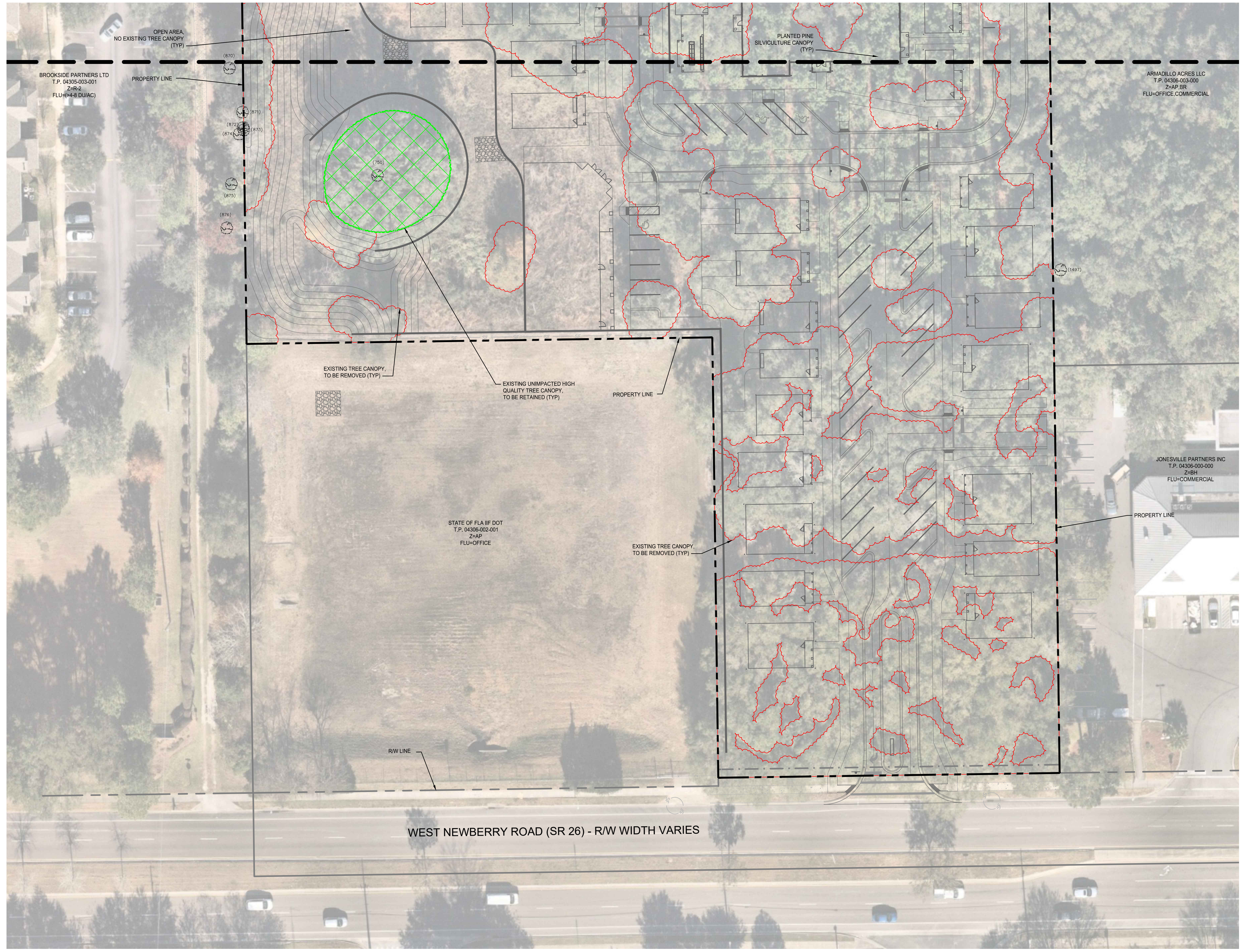
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K:\01_Civil\14220000-Gainesville Cottages\03-Tree Canopy\03-Tree Canopy Plan\03-Tree Canopy Plan.dwg, Layout: C3.13 TREE CANOPY PLAN, Dec 21, 2023, dls@kimleyhorn.com
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MATCHLINE - SEE TREE CANOPY PLAN C3.13



TREE LEGEND

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TREE CANOPY

EXISTING (AC)	MIN REQUIRED (AC)	RETAINED (AC)	RETAINED % OF TOTAL
10.49	0.52	0.53	5.05%

No.	REVISONS	DATE	BY

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PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
KHA PROJECT 142425000	DECEMBER 2023	AS SHOWN	KHA	KHA	KHA

TREE CANOPY PLAN

GAINESVILLE COTTAGES TND
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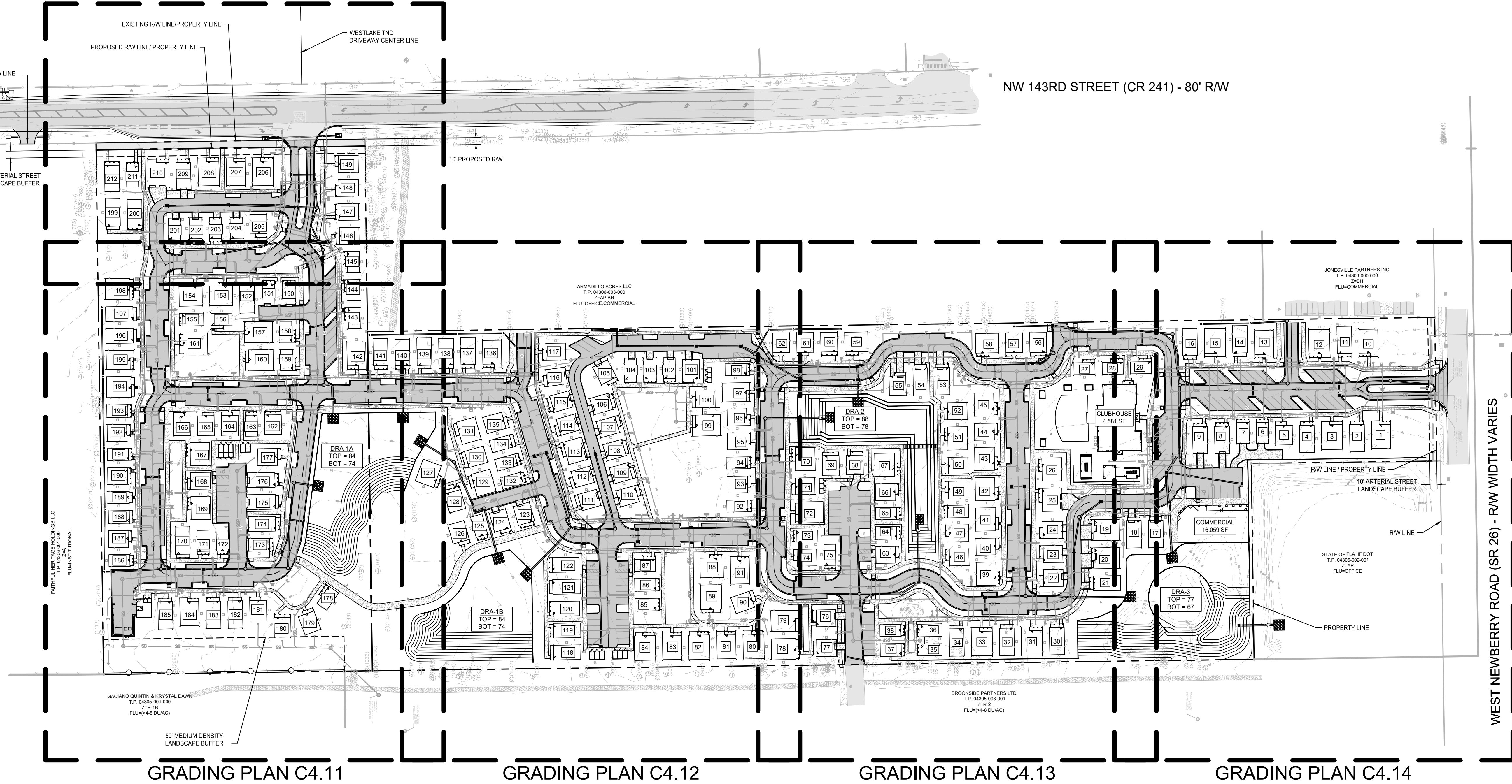
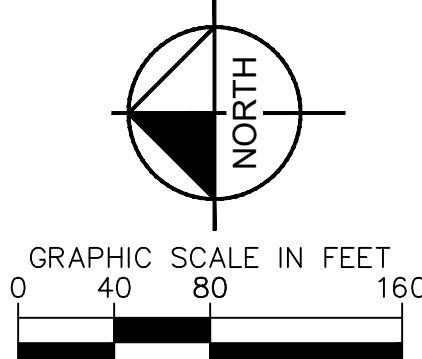
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 PLOTTED BY: KHA

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GRADING PLAN C4.10



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LICENSED PROFESSIONAL
 KHA PROJECT 142425000
 DATE DECEMBER 2023
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY KHA
 CHECKED BY KHA

DAVID C. SOWELL
 FLORIDA LICENSE NUMBER 66531

MASTERS GRADING PLAN

GAINESVILLE COTTAGES TND
 PREPARED FOR SANDS COMPANIES, INC.
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SHEET NUMBER C4.00

K:\01_Civil\14220000-Gainesville Cottages\13 Final Development Plans\C4.02 DRAINAGE PIPE TABLES - Dec 21, 2023 - ddraymond.dwg
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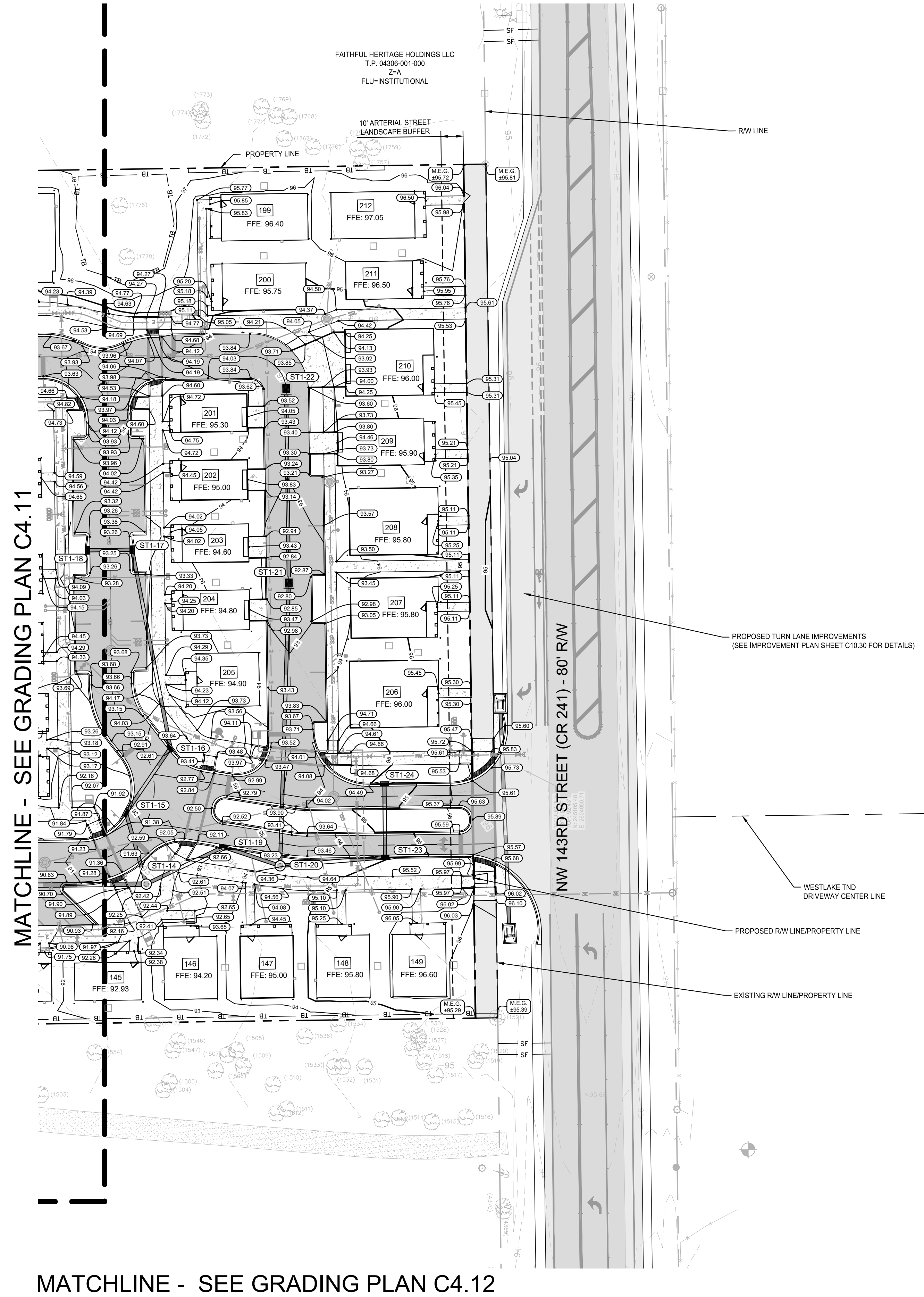
PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
ST1-51 TO ST1-50	24"	65'	5.00%
ST1-52 TO ST1-51	24"	20'	0.50%
ST1-55 TO ST1-52	18"	40'	0.50%
ST1-58 TO ST1-55	18"	167'	0.50%
ST1-53 TO ST1-52	18"	112'	0.50%
ST1-54 TO ST1-53	18"	18'	0.50%
ST1-39 TO ST1-38	24"	40'	5.00%
ST1-40 TO ST1-39	24"	73'	0.50%
ST1-41 TO ST1-40	18"	20'	0.50%
ST1-42 TO ST1-40	18"	92'	0.50%
ST1-43 TO ST1-42	18"	51'	0.50%
ST1-44 TO ST1-43	18"	20'	0.50%
ST1-45 TO ST1-46	24"	49'	0.00%
ST1-46 TO ST1-47	24"	76'	0.00%
ST1-47 TO ST1-48	24"	13'	0.00%
ST1-48 TO ST1-49	24"	67'	0.00%
ST1-02 TO ST1-01	30"	21'	5.00%
ST1-03 TO ST1-02	30"	21'	0.50%
ST1-04 TO ST1-03	30"	12'	0.50%
ST1-12 TO ST1-04	24"	86'	0.50%
ST1-14 TO ST1-12	24"	107'	0.50%
ST1-13 TO ST1-12	18"	20'	0.50%
ST1-05 TO ST1-04	24"	48'	0.50%
ST1-06 TO ST1-05	18"	20'	0.50%
ST1-07 TO ST1-05	18"	117'	0.50%
ST1-08 TO ST1-07	18"	18'	0.50%
ST1-09 TO ST1-07	18"	62'	0.50%
ST1-10 TO ST1-09	18"	26'	0.50%
ST1-11 TO ST1-10	18"	20'	0.50%
ST1-26 TO ST1-25	24"	27'	5.00%
ST1-27 TO ST1-26	24"	53'	0.50%
ST1-28 TO ST1-27	18"	20'	0.50%
ST1-29 TO ST1-27	24"	69'	0.50%
ST1-30 TO ST1-29	24"	61'	0.50%
ST1-31 TO ST1-30	18"	21'	0.50%
ST1-32 TO ST1-30	18"	60'	0.50%
ST1-33 TO ST1-32	18"	19'	0.50%
ST1-34 TO ST1-32	18"	61'	0.50%
ST1-36 TO ST1-34	18"	132'	0.50%
ST1-37 TO ST1-36	18"	20'	0.48%
ST1-35 TO ST1-34	18"	68'	0.50%
ST1-15 TO ST1-14	18"	33'	0.50%
ST1-16 TO ST1-15	18"	35'	0.50%
ST1-17 TO ST1-16	18"	91'	0.50%
ST1-18 TO ST1-17	18"	20'	0.50%
ST1-19 TO ST1-14	18"	38'	0.50%
ST1-20 TO ST1-19	18"	27'	0.50%
ST1-21 TO ST1-20	18"	127'	0.50%
ST1-22 TO ST1-21	18"	87'	0.50%
ST1-23 TO ST1-20	18"	47'	0.50%
ST1-24 TO ST1-23	18"	33'	0.50%
ST1-56 TO ST1-55	18"	23'	0.50%
ST1-57 TO ST1-56	18"	111'	0.50%
YD1-01 TO YD1-03	15"	13'	1.00%
YD1-02 TO YD1-01	15"	89'	1.00%
YD1-03 TO YD1-02	15"	88'	1.00%
YD1-04 TO YD1-03	15"	102'	1.00%
YD1-05 TO YD1-04	15"	99'	1.00%
YD1-06 TO ST1-43	15"	29'	1.00%
YD1-07 TO YD1-06	15"	68'	1.00%
YD1-08 TO YD1-07	15"	124'	1.00%

PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
ST2-02 TO ST2-01	24"	25'	5.00%
ST2-03 TO ST2-02	18"	19'	0.50%
ST2-04A TO ST2-02	18"	80'	0.50%
ST2-04B TO ST2-04A	18"	77'	0.50%
ST2-06 TO ST2-05	18"	64'	0.50%
ST2-07 TO ST2-06	18"	113'	0.50%
ST2-09 TO ST2-08	24"	79'	5.00%
ST2-10 TO ST2-09	24"	53'	0.50%
ST2-11 TO ST2-10	18"	20'	0.50%
ST2-12 TO ST2-10	18"	104'	0.50%
ST2-13 TO ST2-12	18"	24'	0.50%
ST2-15 TO ST2-13	18"	161'	0.50%
ST2-14 TO ST2-13	18"	20'	0.50%
ST2-16 TO ST2-15	18"	18'	0.50%
ST2-18 TO ST2-17	24"	56'	5.00%
ST2-19 TO ST2-18	24"	20'	0.50%
ST2-20 TO ST2-19	24"	29'	0.50%
ST2-21 TO ST2-20	24"	60'	0.50%
ST2-24 TO ST2-21	18"	87'	0.50%
ST2-22 TO ST2-21	18"	93'	0.50%
ST2-23 TO ST2-22	18"	20'	0.50%
ST2-25 TO ST2-21	18"	95'	0.50%
ST2-26 TO ST2-25	18"	27'	0.50%
YD2-04 TO ST2-07	15"	23'	1.00%
YD2-06 TO YD2-04	15"	30'	1.00%
YD2-05 TO YD2-04	15"	36'	1.00%
ST2-04B TO ST2-05	18"	23'	0.50%
YD2-01 TO ST2-04B	15"	40'	1.00%
YD2-02 TO YD2-01	15"	36'	1.00%
YD2-03 TO YD2-02	15"	68'	1.00%

PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
ST3-02 TO ST3-01	30"	115'	3.00%
ST3-05 TO ST3-04	30"	96'	0.50%
ST3-06 TO ST3-05	24"	105'	0.50%
ST3-07 TO ST3-06	18"	19'	0.50%
ST3-15 TO ST3-05	24"	74'	0.50%
ST3-17 TO ST3-16	18"	20'	0.50%
ST3-16 TO ST3-15	24"	45'	0.50%
ST3-19 TO ST3-18	18"	20'	0.50%
ST3-18 TO ST3-16	24"	77'	0.50%
ST3-24 TO ST3-23	18"	20'	0.50%
ST3-23 TO ST3-22	18"	54'	0.50%
ST3-22 TO ST3-21	18"	34'	0.50%
ST3-21 TO ST3-20	18"	39'	0.50%
ST3-20 TO ST3-18	24"	50'	0.50%
ST3-29 TO ST3-28	18"	38'	0.50%
ST3-28 TO ST3-27	18"	49'	0.50%
ST3-27 TO ST3-26	18"	67'	0.50%
ST3-26 TO ST3-25	24"	73'	5.00%
ST3-31 TO ST3-30	18"	20'	0.50%
ST3-32 TO ST3-30	24"	31'	0.50%
ST3-33 TO ST3-32	18"	39'	0.50%
ST3-35 TO ST3-33	18"	117'	0.50%
ST3-36 TO ST3-35	18"	18'	0.50%
ST3-34 TO ST3-33	18"	18'	0.50%
ST3-37 TO ST3-32	18"	58'	0.50%
ST3-38 TO ST3-37	18"	18'	0.50%
ST3-30 TO ST3-26	24"	39'	0.50%
ST3-04 TO ST3-02	30"	34'	0.50%
ST3-43 TO ST3-44	24"	43'	5.00%
ST3-03 TO ST3-02	18"	109'	0.50%
ST3-13 TO ST3-12	18"	52'	0.52%
ST3-14 TO ST3-13	18"	11'	0.50%
ST3-12 TO ST3-10	18"	73'	0.50%
ST3-11 TO ST3-10	18"	18'	0.50%
ST3-10 TO ST3-08	18"	73'	0.50%
ST3-09 TO ST3-08	18"	89'	0.50%
ST3-08 TO ST3-06	24"	50'	0.50%
TO ST3-09	18"	28'	1.17%
YD3-03 TO ST3-20	15"	56'	1.00%
YD3-01 TO ST3-09	15"	52'	1.00%
YD3-02 TO YD3-01	15"	71'	1.00%

GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. <small>ALACHUA COUNTY FLORIDA</small>	DRAINAGE PIPE TABLES	LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 66531	KHA PROJECT 142425000 DATE DECEMBER 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA DATE		© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	NOT FOR CONSTRUCTION	REVISIONS No. DATE BY
	SHEET NUMBER C4.02						

K:\01_Civil\14220000-Gainesville Cottages\Drawings\Grading\Grading Plan C4.11.dwg, Layout: C4.11 GRADING PLAN, Dec 21, 2023, dlmeyerm@kha.com
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LEGEND

- STANDARD DUTY PAVEMENT (SEE DETAIL SHEET C7.00)
- CONCRETE SIDEWALK (SEE DETAILS SHEET C7.00)
- STABILIZED PATH (SEE DETAIL SHEET C7.00)
- PROPOSED SPOT ELEVATION (ALL POINTS ARE LOCATED AT EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED)
- STORM DRAINAGE STRUCTURE LABEL
- PROPOSED CURB INLET
- PROPOSED DRAINAGE INLET
- PROPOSED STORMWATER MANHOLE
- PROPOSED STORMWATER CLEANOUT
- PROPOSED MITERED END SECTION
- PROPOSED STORM PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED FLOW DIRECTION ARROWS
- GARAGE ENTRY PAVEMENT (ELEVATION = FFE-0.07)
- FRONT DOOR PORCH PAVEMENT (ELEVATION = FFE-0.50)
- PROPOSED SWALE

NOTES:

1. ALL GRADES ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
2. ALL SIDEWALK CONSTRUCTION SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00%.
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4. ALL FINAL STORM DRAIN MATERIALS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND NOTED ON THE RECORD DRAWINGS.
5. RIP-RAP PADS SHALL BE PLACED A MINIMUM OF 30" THICK, TO THE DIMENSIONS SHOWN ON THE PLANS AND FLUSH WITH THE ADJACENT GRADE. RIP-RAP SHALL BE RUBBLE (DITCH LINING) PER FOOT STANDARD SPECIFICATION 530. TYPE D-2 GEOTEXTILE FABRIC SHALL BE PLACED BENEATH ALL RIP RAP INSTALLATIONS.
6. IRRIGATION PIPE SLEEVES WILL BE REQUIRED UNDERNEATH PAVEMENT. CONTRACTOR IS RESPONSIBLE FOR REFERRING TO THE IRRIGATION PLANS FOR EXACT LOCATION AND SIZE OF IRRIGATION PIPE SLEEVES AT PAVEMENT CROSSINGS.
7. SEE LANDSCAPE PLANS FOR STRUCTURAL SOIL INSTALLATION REQUIREMENTS AND LOCATIONS.

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STORMWATER RUNOFF FROM THE PROJECT WILL BE DIRECTED TO FOUR ONSITE DRA'S. THE DRA'S ARE DRY RETENTION FACILITIES THAT WILL CAPTURE AND TREAT SITE STORMWATER RUNOFF. RECOVERY WILL BE PROVIDED THROUGH SOIL PERCOLATION. ALL DRA'S WILL BE PRIVATELY OWNED AND MAINTAINED.

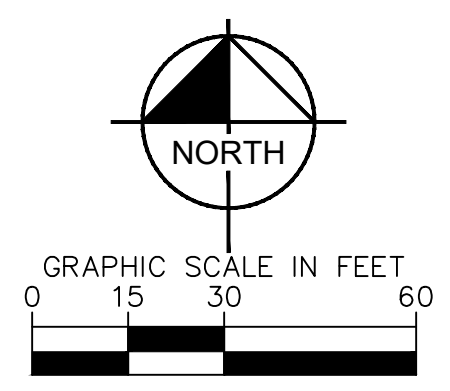
OPERATION AND MAINTENANCE PROCEDURES AND SCHEDULE SHALL BE IN ACCORDANCE WITH THE "STORMWATER SYSTEM MAINTENANCE MANUAL FOR GAINESVILLE COTTAGES TND" (PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC.

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Kimley»Horn	LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 66551	KHA PROJECT 142425000 DATE DECEMBER 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA	GRADING PLAN	GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA
© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM	NOT FOR CONSTRUCTION	REVISIONS No. DATE BY	SHEET NUMBER C4.10	

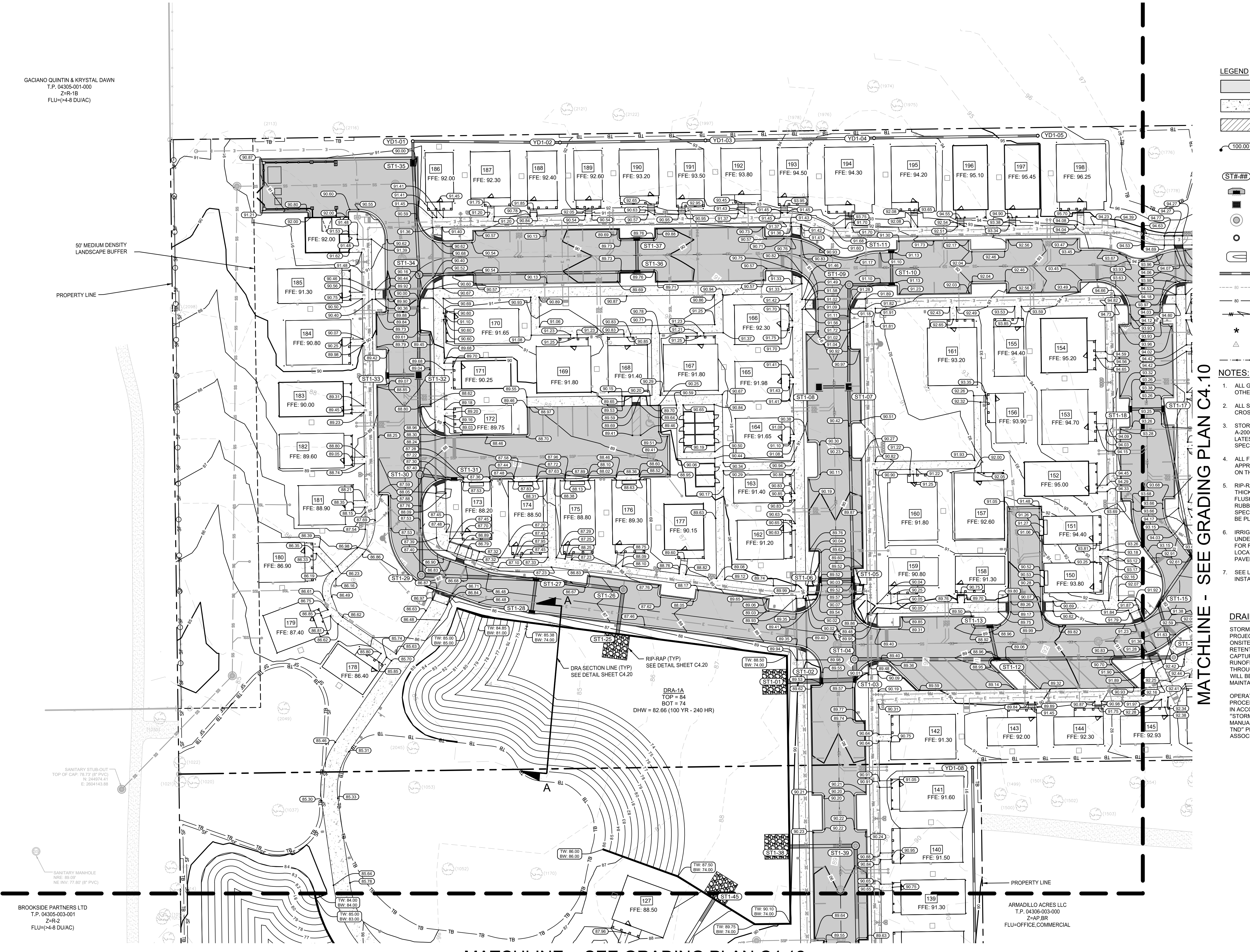


GACIANO QUINTIN & KRystal Dawn
 T.P. 04305-001-000
 Z=R-1B
 FLU=(4-8 DU/AC)

50' MEDIUM DENSITY LANDSCAPE BUFFER
 PROPERTY LINE

BROOKSIDE PARTNERS LTD
 T.P. 04305-003-001
 Z=R-2
 FLU=(4-8 DU/AC)

ARMAJILLO ACRES LLC
 T.P. 04306-003-000
 Z=AP-BR
 FLU=OFFICE/COMMERCIAL



- LEGEND**
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 - CONCRETE SIDEWALK (SEE DETAILS SHEET C7.00)
 - STABILIZED PATH (SEE DETAIL SHEET C7.00)
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 - PROPOSED DRAINAGE INLET
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 - PROPOSED STORMWATER CLEANOUT
 - PROPOSED MITERED END SECTION
 - PROPOSED STORM PIPE
 - EXISTING CONTOURS
 - PROPOSED CONTOURS
 - PROPOSED FLOW DIRECTION ARROWS
 - GARAGE ENTRY PAVEMENT (ELEVATION = FFE-0.87)
 - FRONT DOOR PORCH PAVEMENT (ELEVATION = FFE-0.50)
 - PROPOSED SWALE

- NOTES:**
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MATCHLINE - SEE GRADING PLAN C4.10

MATCHLINE - SEE GRADING PLAN C4.12

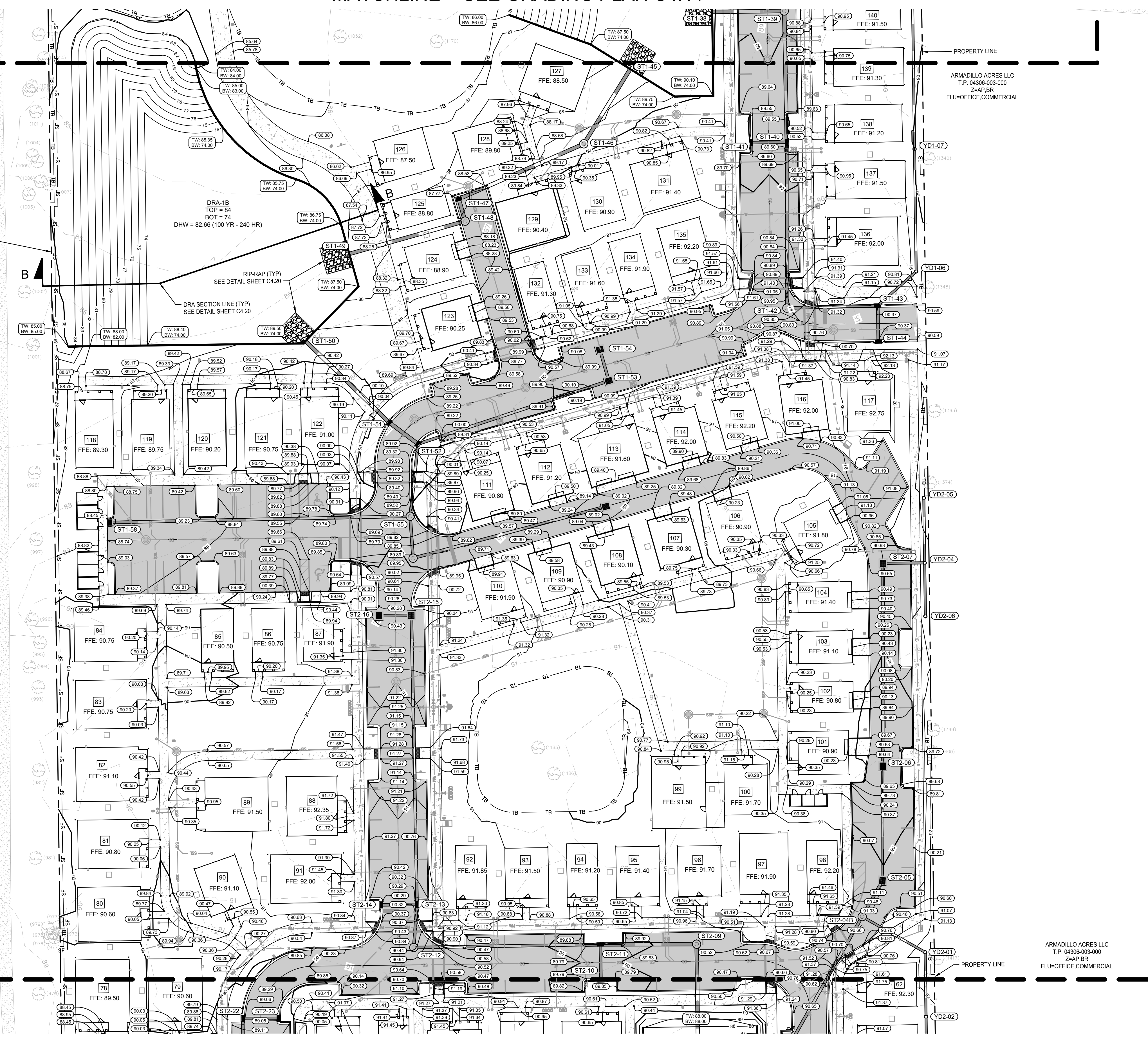
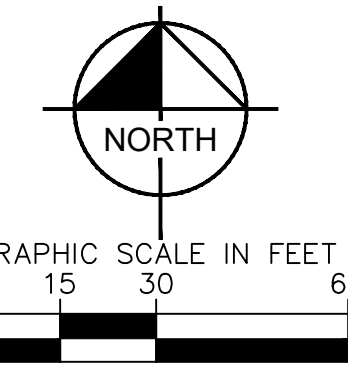
		LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 66551
KHA PROJECT 142425000	DATE DECEMBER 2023	SCALE AS SHOWN
DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY KHA
GRADING PLAN		SHEET NUMBER C4.11
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA		REVISIONS NO. DATE BY

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MATCHLINE - SEE GRADING PLAN C4.11



- LEGEND**
- STANDARD DUTY PAVEMENT (SEE DETAIL SHEET C7.00)
 - CONCRETE SIDEWALK (SEE DETAILS SHEET C7.00)
 - STABILIZED PATH (SEE DETAIL SHEET C7.00)
 - 100.00 - PROPOSED SPOT ELEVATION (ALL POINTS ARE LOCATED AT EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED)
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 - PROPOSED CURB INLET
 - PROPOSED DRAINAGE INLET
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 - PROPOSED SWALE

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Z-R-2
FLU-(D-4.8 DUAC)

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T.P. 04306-003-000
Z-40 BR
FLU-OFFICE, COMMERCIAL

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MATCHLINE - SEE GRADING PLAN C4.13

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 WWW.KIMLEY-HORN.COM
 REGISTRY NO. 35106

KHA PROJECT 142425000	LICENSED PROFESSIONAL
DATE DECEMBER 2023	DAVID C. SOWELL
SCALE AS SHOWN	FLORIDA LICENSE NUMBER 66551
DESIGNED BY KHA	KHA
DRAWN BY KHA	KHA
CHECKED BY KHA	KHA

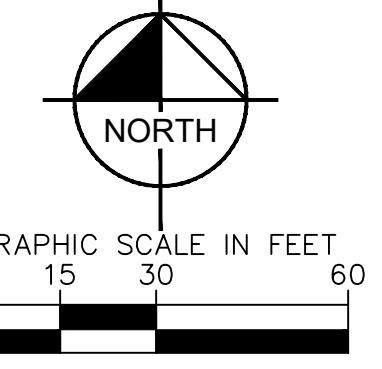
GRADING PLAN

GAINESVILLE COTTAGES TND
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C4.12

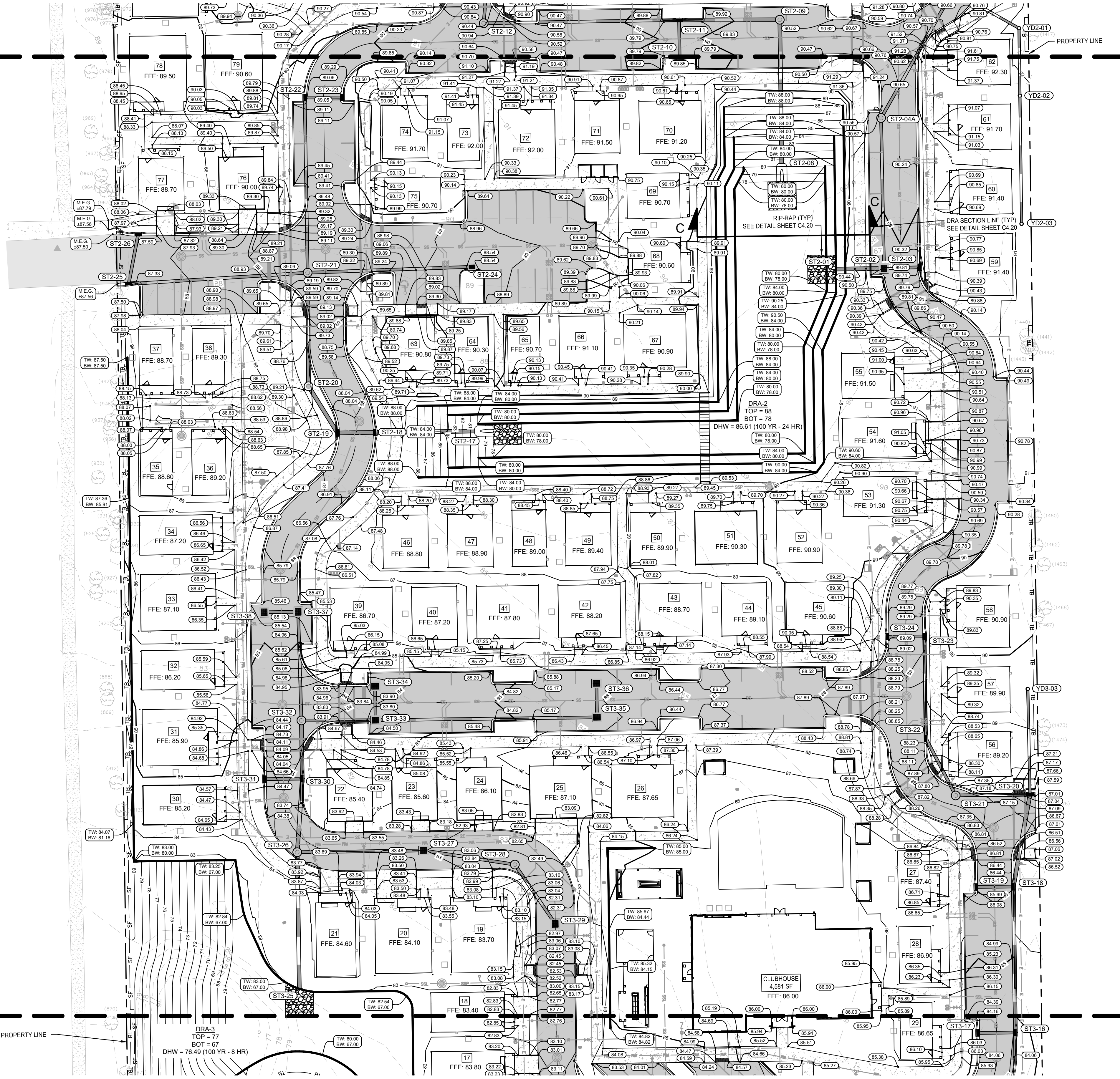
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MATCHLINE - SEE GRADING PLAN C4.12



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ARMADILLO ACRES LLC
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Z-AP-BR
FLU=OFFICE,COMMERCIAL



LEGEND

- STANDARD DUTY PAVEMENT (SEE DETAIL SHEET C7.00)
- CONCRETE SIDEWALK (SEE DETAILS SHEET C7.00)
- STABILIZED PATH (SEE DETAIL SHEET C7.00)
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- PROPOSED CURB INLET
- PROPOSED DRAINAGE INLET
- PROPOSED STORMWATER MANHOLE
- PROPOSED STORMWATER CLEANOUT
- PROPOSED MITERED END SECTION
- PROPOSED STORM PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED FLOW DIRECTION ARROWS
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- ▲ - FRONT DOOR PORCH PAVEMENT ELEVATION = FFE-0.50
- PROPOSED SWALE

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Z-R-2
FLU=H+4.8 DUAC

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FLU=OFFICE,COMMERCIAL

MATCHLINE - SEE GRADING PLAN C4.14

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GAINESVILLE COTTAGES TND
PREPARED FOR SANDS COMPANIES, INC.
ALACHUA COUNTY FLORIDA

GRADING PLAN

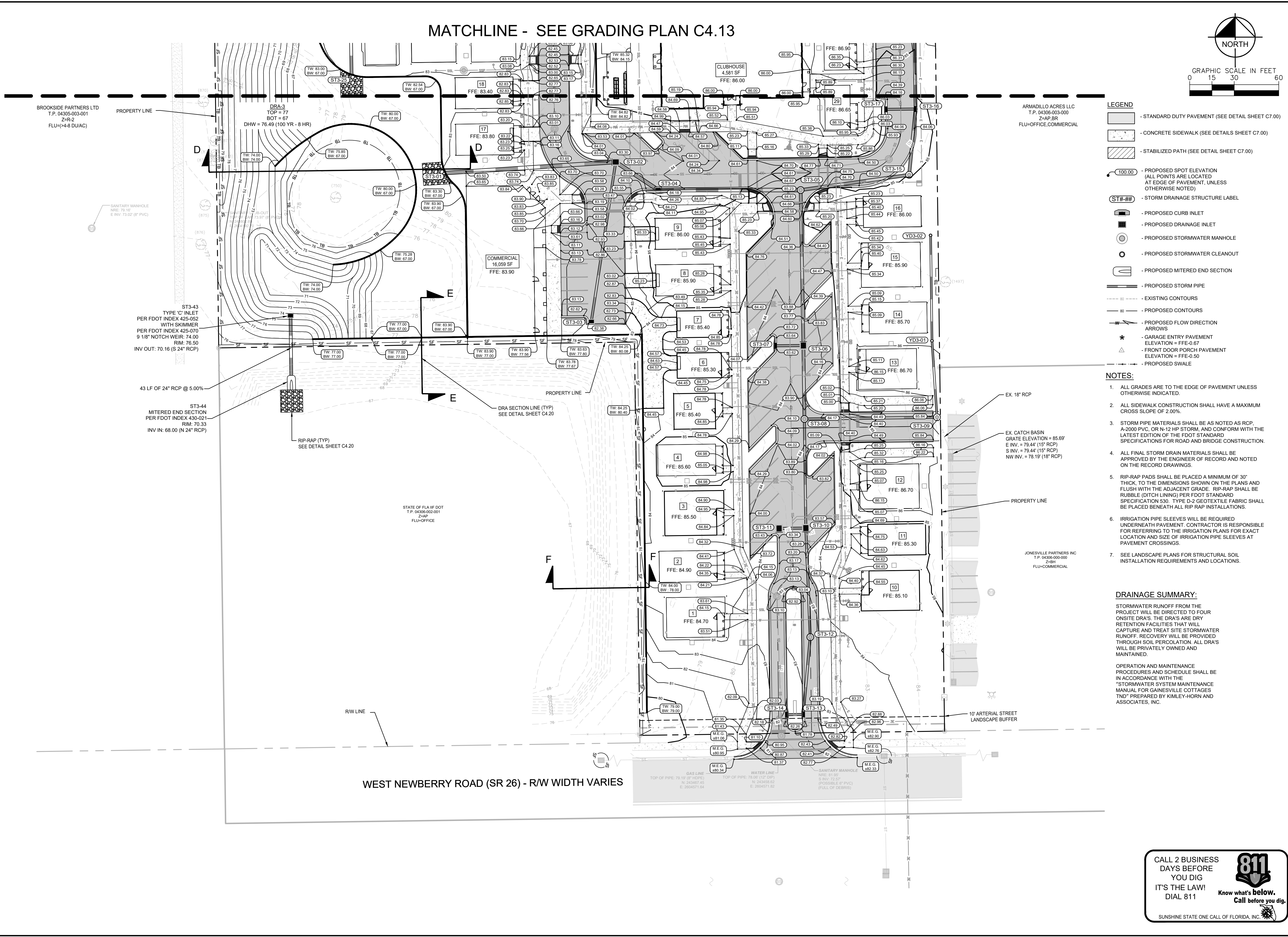
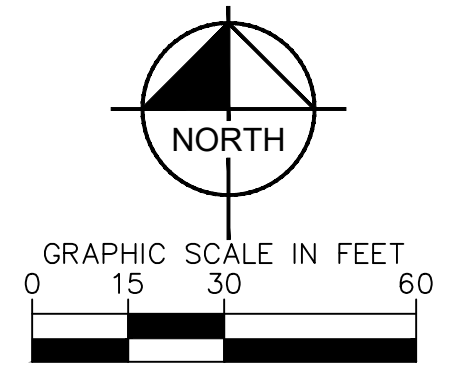
SHEET NUMBER **C4.13**

NO.	REVISIONS	DATE	BY

KHA PROJECT: 142425000
 DATE: DECEMBER 2023
 SCALE: AS SHOWN
 DESIGNED BY: KHA
 DRAWN BY: KHA
 CHECKED BY: KHA
 LICENSED PROFESSIONAL: DAVID C. SOWELL
 FLORIDA LICENSE NUMBER: 66531

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MATCHLINE - SEE GRADING PLAN C4.13



- LEGEND**
- STANDARD DUTY PAVEMENT (SEE DETAIL SHEET C7.00)
 - CONCRETE SIDEWALK (SEE DETAILS SHEET C7.00)
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NO.	REVISIONS	DATE	BY

Kimley»Horn
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 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
 PHONE: 352-374-3274
 WWW.KIMLEY-HORN.COM
 REGISTRY NO. 35106

LICENSED PROFESSIONAL	DAVID C. SOWELL
KHA PROJECT	142425000
DATE	DECEMBER 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA
FLORIDA LICENSE NUMBER	66551

GRADING PLAN

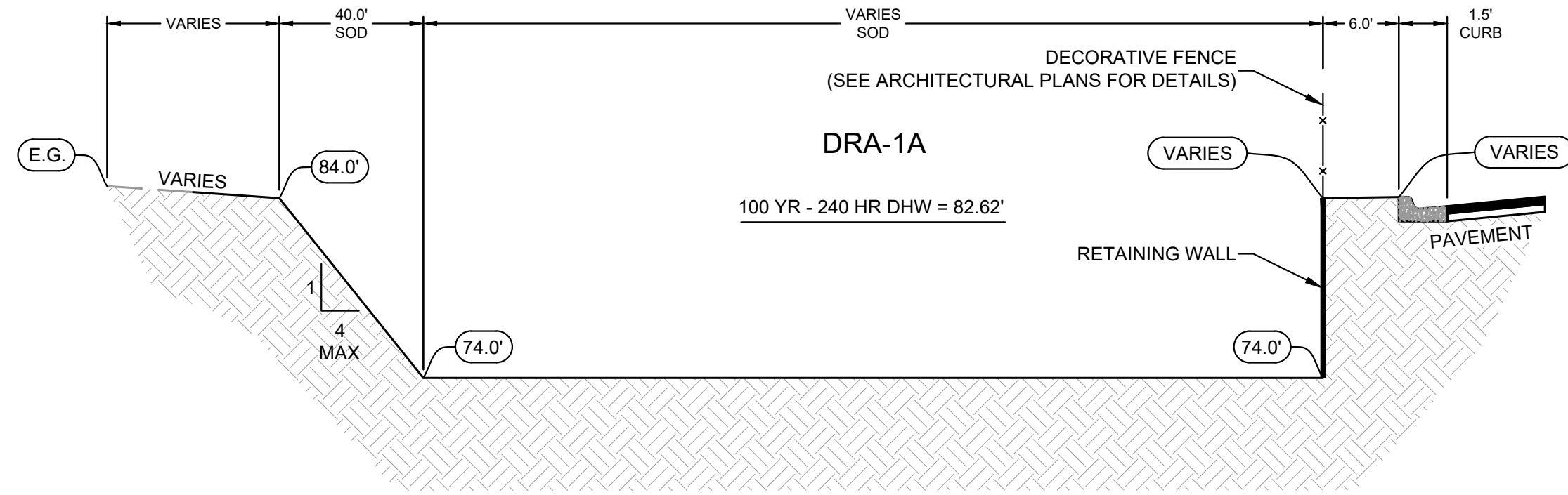
GAINESVILLE COTTAGES TND
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C4.14

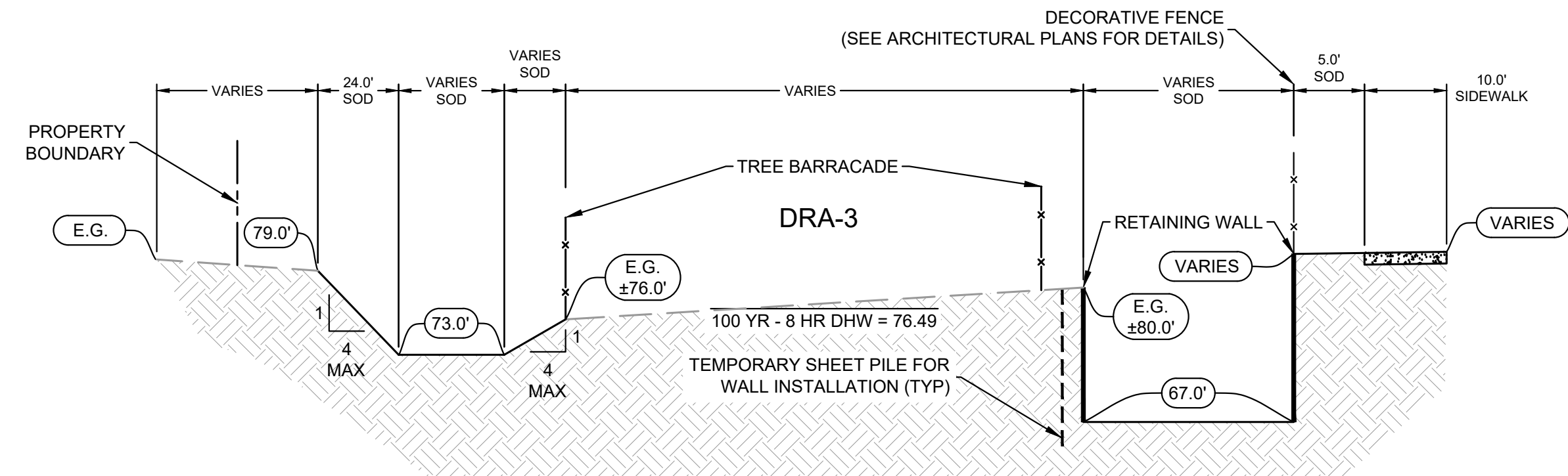
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 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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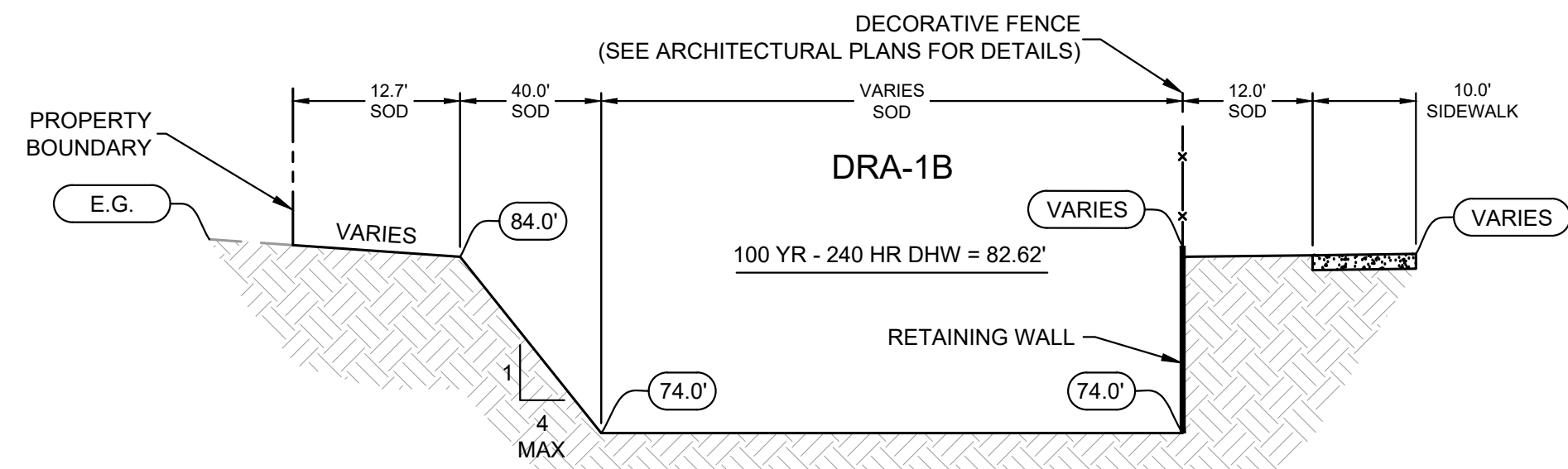
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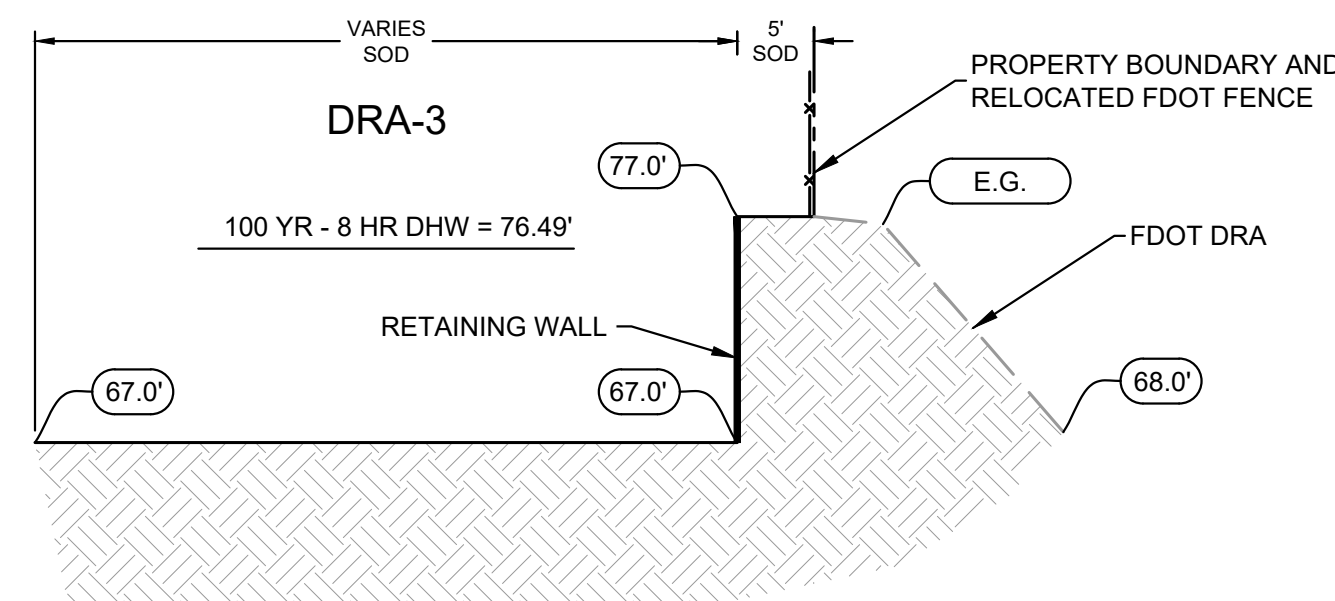
DRA-1A SECTION A-A
 TOP= 84
 BOT = 74
 N.T.S.



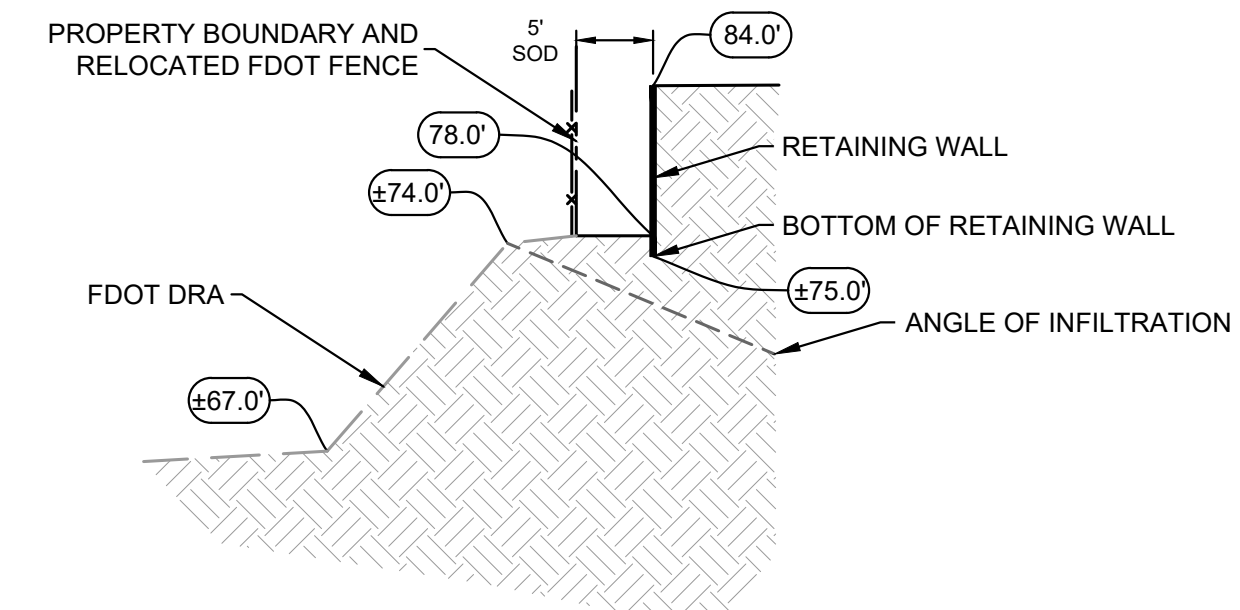
DRA-3 SECTION D-D
 TOP= 77
 BOT = 67
 N.T.S.



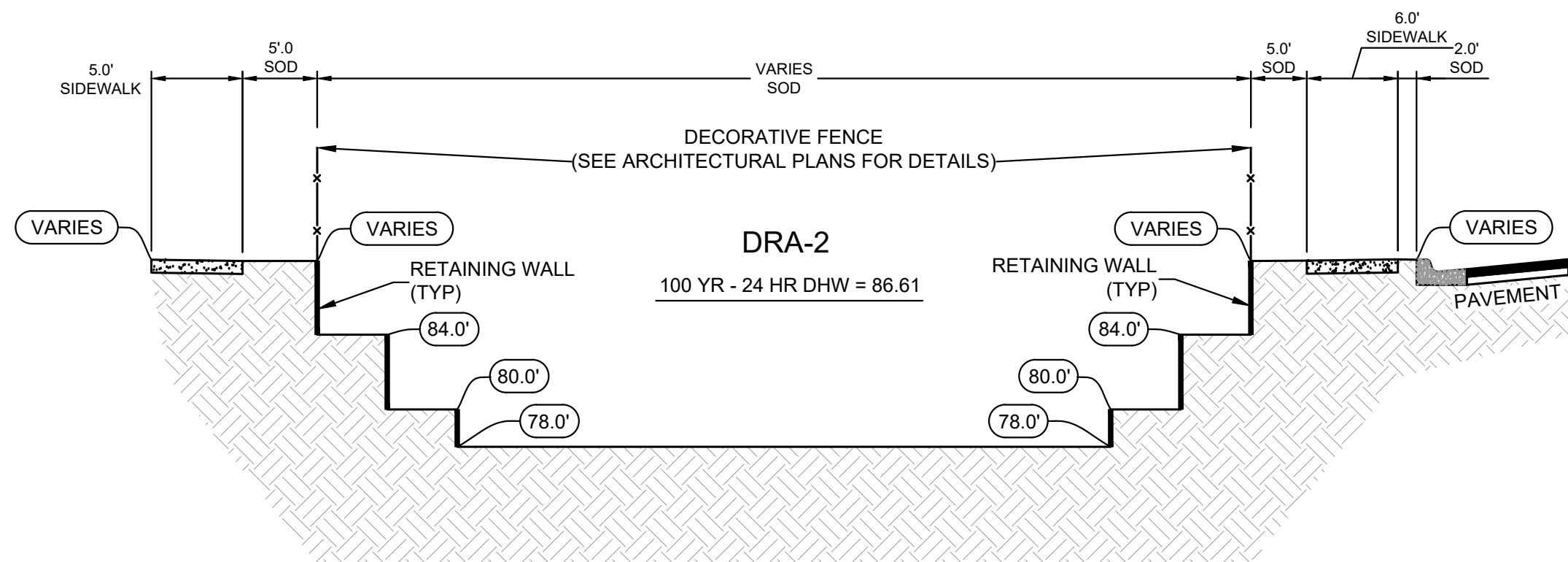
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 BOT = 74
 N.T.S.



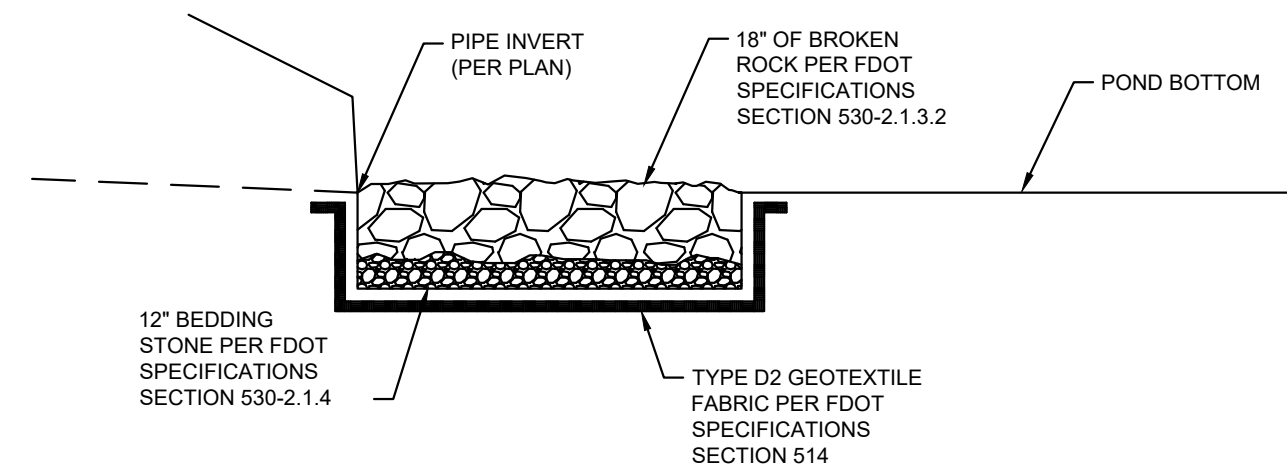
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 BOT = 67
 N.T.S.



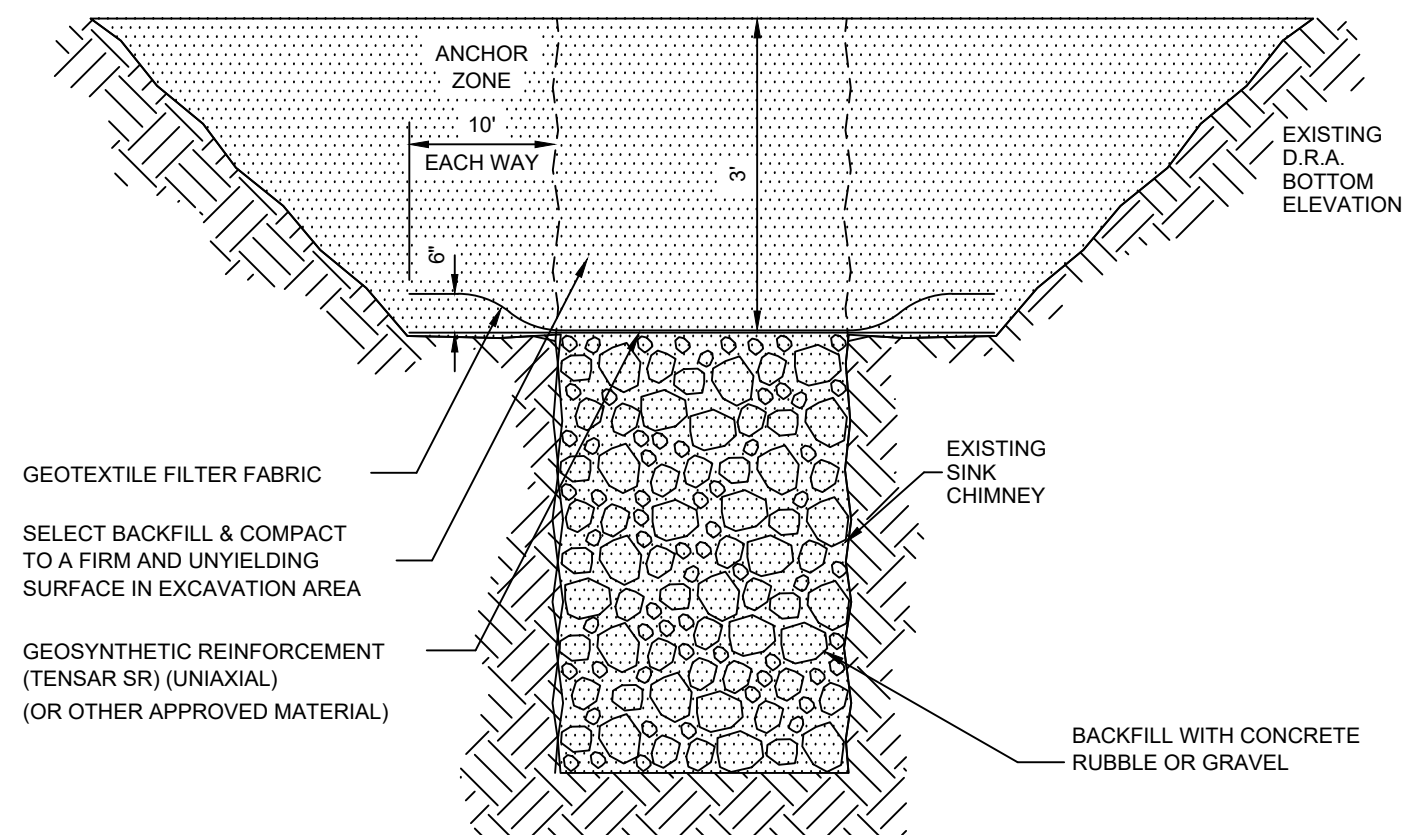
FDOT DRA SECTION F-F
 TOP= ±74
 BOT = ±67
 N.T.S.



DRA-2 SECTION C-C
 TOP= 88
 BOT = 78
 N.T.S.



RIP-RAP PAD DETAIL
 N.T.S.



TYPICAL SINK CHIMNEY REPAIR DETAIL
 N.T.S.

- NOTES:
- IF LIMESTONE IS ENCOUNTERED OR A SINKHOLE OR SOLUTION PIPE FORMS DURING CONSTRUCTION, CONSTRUCTION OF THE BASIN MUST BE HALTED AND THE PROJECT GEOTECHNICAL ENGINEER MUST BE NOTIFIED IMMEDIATELY.
 - THE SINKHOLE OR SOLUTION PIPE MUST BE REPAIRED WITHIN 10 DAYS OF THE DISCOVERY USING A DISTRICT APPROVED METHOD.
 - THE STORMWATER SYSTEM MUST BE INSPECTED MONTHLY FOR THE OCCURRENCE OF SINKHOLES OR SOLUTION PIPES.

KHA PROJECT 142425000		LICENSED PROFESSIONAL DAVID C. SOWELL		KIMLEY-HORN	
DATE DECEMBER 2023		FLORIDA LICENSE NUMBER 66531		© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 WWW.KIMLEY-HORN.COM	
SCALE AS SHOWN		DRAWN BY KHA		REVISIONS	
DESIGNED BY KHA		CHECKED BY KHA		DATE	
DRAWN BY KHA		DATE		BY	
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC.		ALACHUA COUNTY FLORIDA		SHEET NUMBER C4.20	

K:\DOT_CAD\142425000-Gainesville Cottages\13 Final Development\Plan\CD\Utility\CD\Master\Utility Plan_DWG_2023_0809.rvt, Dec 21, 2023, 4:05:00 PM
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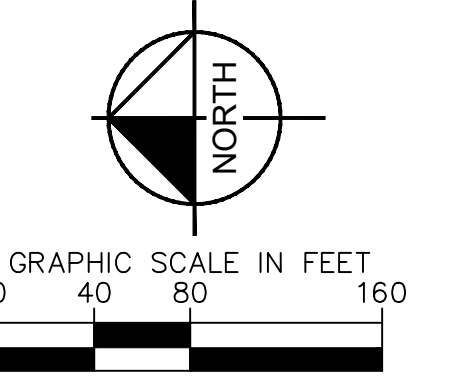
GRU UTILITY NOTES:

1. A UTILITY PERMIT IS REQUIRED FROM GAINESVILLE REGIONAL UTILITIES.
2. THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON GRU'S APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATTED, OWNER MAY CHOOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATION REQUIREMENTS TABLE IN APPENDIX C OF THE GRU W/WW/RCW DESIGN STANDARDS.
3. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS SHALL BE IN CONFORMANCE WITH GRU'S MOST RECENT POTABLE WATER, WASTEWATER, & RECLAIMED WATER SYSTEM DESIGN STANDARDS, CONSTRUCTION DETAILS, CONSTRUCTION STANDARDS, AND APPROVED MATERIALS MANUAL.
4. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
5. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM BUILDINGS, TRANSFORMERS, AND ALL PERMANENT STRUCTURES. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES. PROVIDED THAT WATER SERVICE LATERALS ARE INSTALLED INSIDE 3" SLEEVES. SEPARATION FROM TREES IS 7.5' FOR PRESSURIZED MAINS AND SERVICES (WATER, RECLAIMED, AND FORCE MAIN) AND 10' (MINIMUM) FOR GRAVITY MAINS AND SERVICES. (SEE APPENDIX C OF GRU'S DESIGN STANDARDS AND CONSTRUCTION DETAILS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER - HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)
6. POTABLE WATER SERVICES SHALL BE PROVIDED TO EACH LOT, BUILDING OR PARCEL AND REQUIRES A SEPARATE WATER METER FOR EACH DWELLING UNIT. FOR COMMERCIAL, MULTIFAMILY, AND INSTITUTIONAL DEVELOPMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR INSTALLING POTABLE WATER SERVICES AND YOKE ASSEMBLY PACKAGE UP TO AND INCLUDING THE METER YOKE, BOX (INSTALLED AT FINAL GRADE) AND ASSOCIATED APPURTENANCES, FOR METERS 1" AND SMALLER (SEE GRU W/WW/RCW CONSTRUCTION DETAIL W-8.0), WITH A ONE-YEAR WARRANTY.

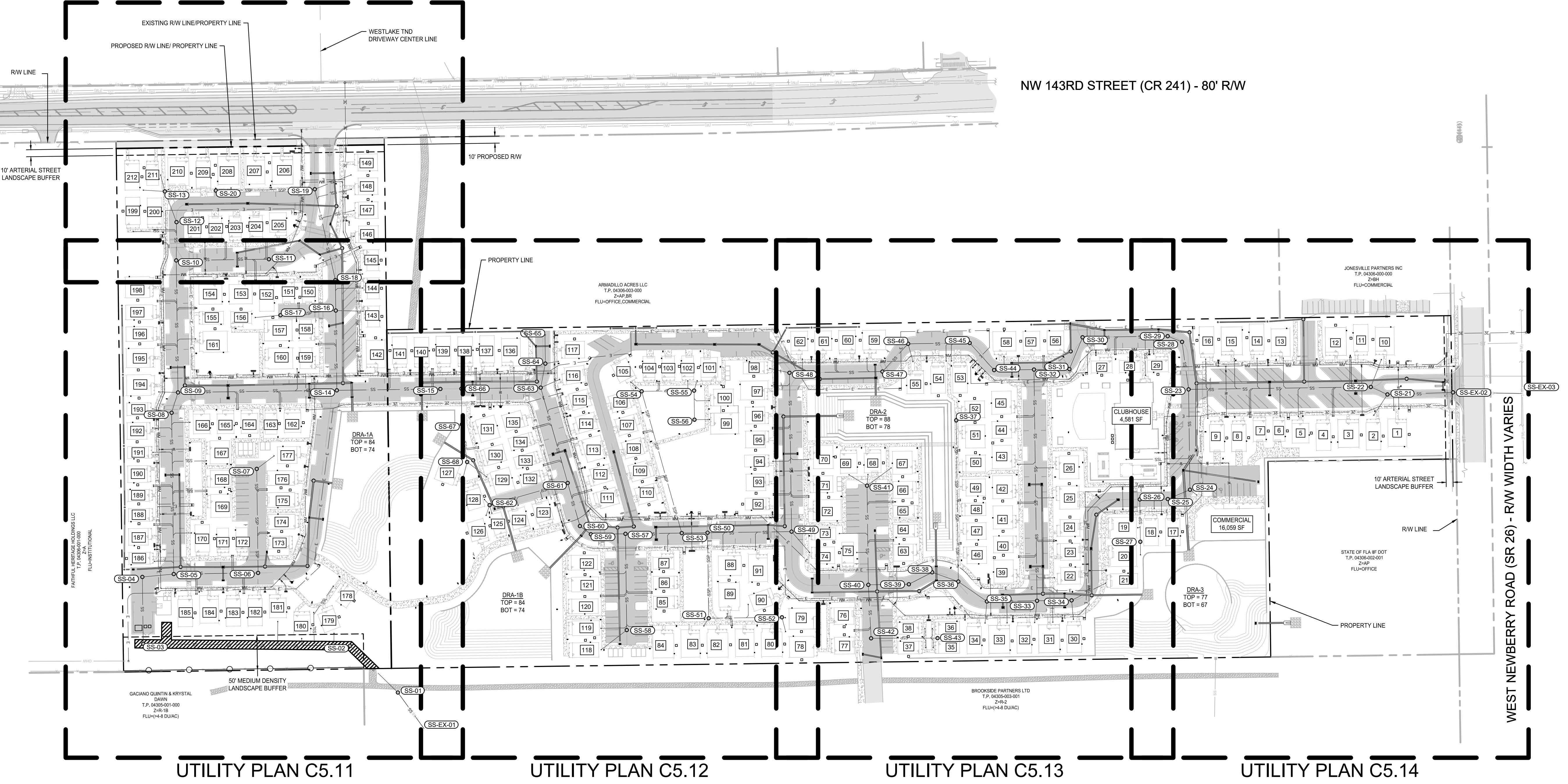
7. 2" VALVES SHALL BE GRU APPROVED CAST IRON, RESILIENT SEAT GATE VALVES WITH STANDARD 2" OPERATING NUT, THREADED WITH BRASS NIPPLE BETWEEN THE VALVES AND TAPPING SADDLE OR TAPPED TEE.
8. WATER MAINS 4" IN DIAMETER AND GREATER, PLACED UNDER ROADWAYS, SHALL BE CEMENT LINED DUCTILE IRON PIPE (CLDIP) EXTENDING 5 FEET PAST THE BACK OF CURB (3 FEET WITHIN CITY OF GAINESVILLE LIMITS). TRACER WIRE INSTALLED ON PVC WATER MAINS SHALL CONTINUE ACROSS THE CLDIP SECTIONS.
9. 1" OR 2" PE WATER SERVICE CROSSINGS LOCATED UNDER ROADWAYS SHALL BE ENCASED IN 3" SCH 40 PVC EXTENDING 5' PAST THE BACK OF CURB (3 FEET INSIDE CITY OF GAINESVILLE LIMITS).
10. ANCHOR TEES, ANCHOR COUPLINGS (SOLID X SWIVEL), AND ANCHOR BENDS (SWIVEL X SWIVEL) SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
11. ALL ROADS WILL BE PRIVATELY OWNED AND MAINTAINED. END OF MAINTENANCE FOR GRU WATER WILL BE AT THE METER. END OF MAINTENANCE FOR GRU SEWER WILL BE AT THE PUBLIC SEWER MAIN. ALL SANITARY SEWER LATERALS WILL BE PRIVATELY OWNED AND MAINTAINED.
12. ALL PRESSURIZED MAIN FITTINGS AND VALVE SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINT GLANDS; A SUFFICIENT LENGTH OF THE PUSH-ON PIPE CONNECTED TO THE FITTINGS SHALL BE MECHANICALLY RESTRAINED TO PROVIDE REACTION AS SPECIFIED ON THE RESTRAINED JOINT STANDARD IN THE CONSTRUCTION DETAILS (W - 2.8 & 2.9, RCW - 2.8 & 2.9, AND WW - 2.4 & 2.5). CALCULATIONS FOR REQUIRED RESTRAINT LENGTH MUST BE PROVIDED IF THE SPECIFIED RESTRAINT LENGTH, DUE TO SOIL TYPE OR DEPTH OF COVER, DIFFERS FROM THOSE PROVIDED ON THESE DETAILS. RESTRAINED LENGTH MUST BE INDICATED ON THE PLANS.
13. ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 26 - PIPE AND FITTINGS) AT 1.00% MIN. SLOPE UNLESS OTHERWISE LABELED.
14. WASTEWATER CLEANOUT COVERS LOCATED WITHIN PAVEMENT AND SIDEWALKS SHALL BE RATED FOR TRAFFIC LOAD BEARING.
15. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SODDED SLOPE DOWN TO FINISHED GRADE.
16. THE FINISHED FLOOR ELEVATIONS OF BUILDINGS SHALL BE A MINIMUM OF 6" ABOVE THE LOWEST UPSTREAM MANHOLE TOP. IF THIS IS INFEASIBLE, A WASTEWATER SERVICE LATERAL BACKWATER VALVE WITH SEWER RELIEF VALVE IS REQUIRED ON THE CUSTOMER SIDE OF THE CLEANOUT.
17. WHEN A POTABLE OR RECLAIMED WATER MAIN, OR A WASTEWATER FORCE MAIN IS ROUTED WITHIN 10 FT. OF AN ELECTRIC TRANSFORMER, A 20 FT. LENGTH OF CLDIP SHALL BE CENTERED ON THE TRANSFORMER WITH MECHANICAL RESTRAINT AT EACH END. NO FITTINGS, PIPE JOINTS, OR VALVES SHALL OCCUR WITHIN 10 FT. OF THE NEAREST EDGE OF THE TRANSFORMER. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED BETWEEN THE MAIN AND THE TRANSFORMER.
18. POTABLE WATER DEMANDS:
AVERAGE DAILY FLOW = 29,363 GAL/DAY
= 20.39 GAL/MIN
19. SEWER DEMANDS:
AVERAGE DAILY FLOW = 29,304 GAL/DAY
= 20.35 GAL/MIN
20. IRRIGATION DEMANDS:
(TBD) GAL/DAY

GRU GAS NOTES:

1. CONTRACTOR SHALL CONTACT GRU GAS OPERATIONS SUPERVISOR WESLEY LESTER AT (352)-538-2570 AT LEAST SEVEN (7) DAYS PRIOR TO THE START OF DEMOLITION.
2. CONTRACTOR SHALL CONTACT GRU GAS OPERATIONS SUPERVISOR WESLEY LESTER AT (352)-538-2570 AT LEAST SEVEN (7) DAYS PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL LOCATE, PROTECT, AND MAINTAIN A MINIMUM OF 36" INCHES OF COVER OVER EXISTING GRU GAS MAIN AND GAS SERVICES DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
4. CONTRACTOR SHALL MAINTAIN 12" ALL-CLEAR ZONE (HORIZONTAL AND VERTICAL) AROUND GAS MAINS AND SERVICES. MAINTAIN A MINIMUM DEPTH OF 3' FOR THE GAS MAIN AND ASSOCIATED CASINGS.



UTILITY PLAN C5.10



FIRE SAFETY NOTES:

1. ALL FIRE DEPARTMENT CONNECTIONS (FDCs) SHALL BE REMOTE AND WITHIN 35 FEET OF A FIRE HYDRANT FOR ANY BUILDING REQUIRING A FIRE SPRINKLER SYSTEM TO BE INSTALLED, PER FBC 912.2.

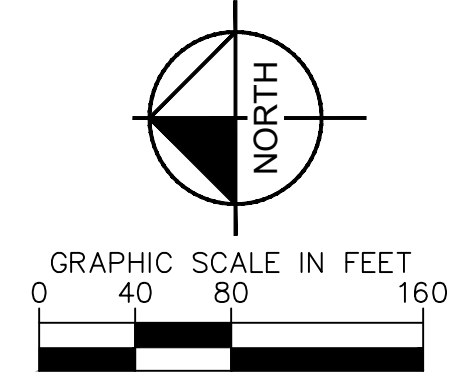
ROOT BARRIER NOTES:

1. ALL ROOT BARRIER LOCATIONS ARE SHOWN ON THIS PLAN FOR REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR REFERRING TO LANDSCAPE PLAN SHEETS L-100 - L-108 FOR EXACT LOCATIONS OF ROOT BARRIERS AS THEY RELATE TO LANDSCAPE TREE LOCATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR RELOCATING ROOT BARRIERS IF TREE LOCATIONS ARE MOVED FROM PLAN LOCATIONS DUE TO UTILITY CONFLICTS ENCOUNTERED IN THE FIELD.

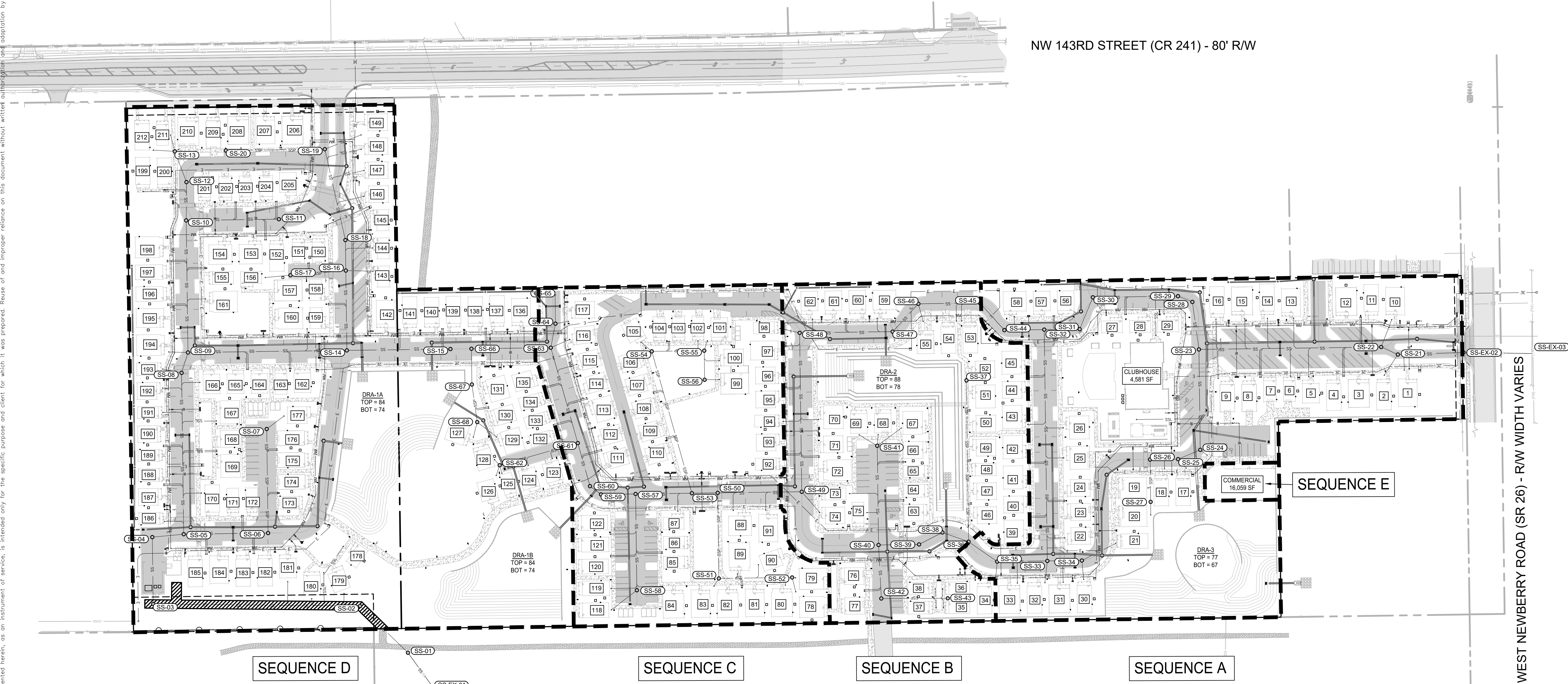
Kimley»Horn		DAVID C. SOWELL FLORIDA LICENSE NUMBER 66551
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC.		MASTER UTILITY PLAN
KHA PROJECT 142425000	DATE DECEMBER 2023	SCALE AS SHOWN
DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY KHA
SUNSHINE STATE ONE CALL OF FLORIDA, INC.		811
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UTILITY CONSTRUCTION SEQUENCING PLAN NOTES

1. THE GAINESVILLE COTTAGES TND PROJECT IS A SINGLE PHASE PROJECT.
2. THE UTILITY CONSTRUCTION SEQUENCING PLAN IS TO BE USED FOR CORRECTLY SEQUENCING THE COMPLETION OF UNITS AND OBTAINING CERTIFICATES OF OCCUPANCY.
3. THE ACCESS POINTS LOCATED ON W NEWBERRY ROAD (SR 26) AND NW 143RD STREET (CR 241) WILL BOTH BE CONSTRUCTED AND OPEN PRIOR TO THE RELEASE OF ANY CERTIFICATES OF OCCUPANCY IN THE FIRST CONSTRUCTION SEQUENCE.



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NW 143RD STREET (CR 241) - 80' R/W

WEST NEWBERRY ROAD (SR 26) - R/W WIDTH VARIES

SEQUENCE D SEQUENCE C SEQUENCE B SEQUENCE A

SEQUENCE E

No.	REVISIONS	DATE	BY

Kimley»Horn
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 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT: 142425000
 DATE: DECEMBER 2023
 SCALE: AS SHOWN
 DESIGNED BY: KHA
 DRAWN BY: KHA
 CHECKED BY: KHA

UTILITY CONSTRUCTION SEQUENCING PLAN

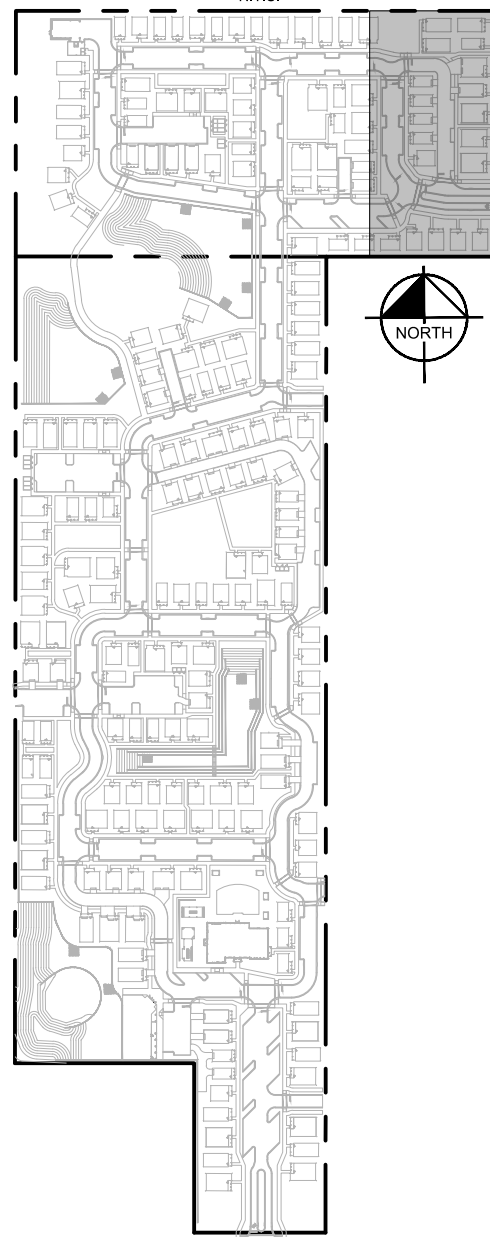
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 ALACHUA COUNTY FLORIDA

SHEET NUMBER
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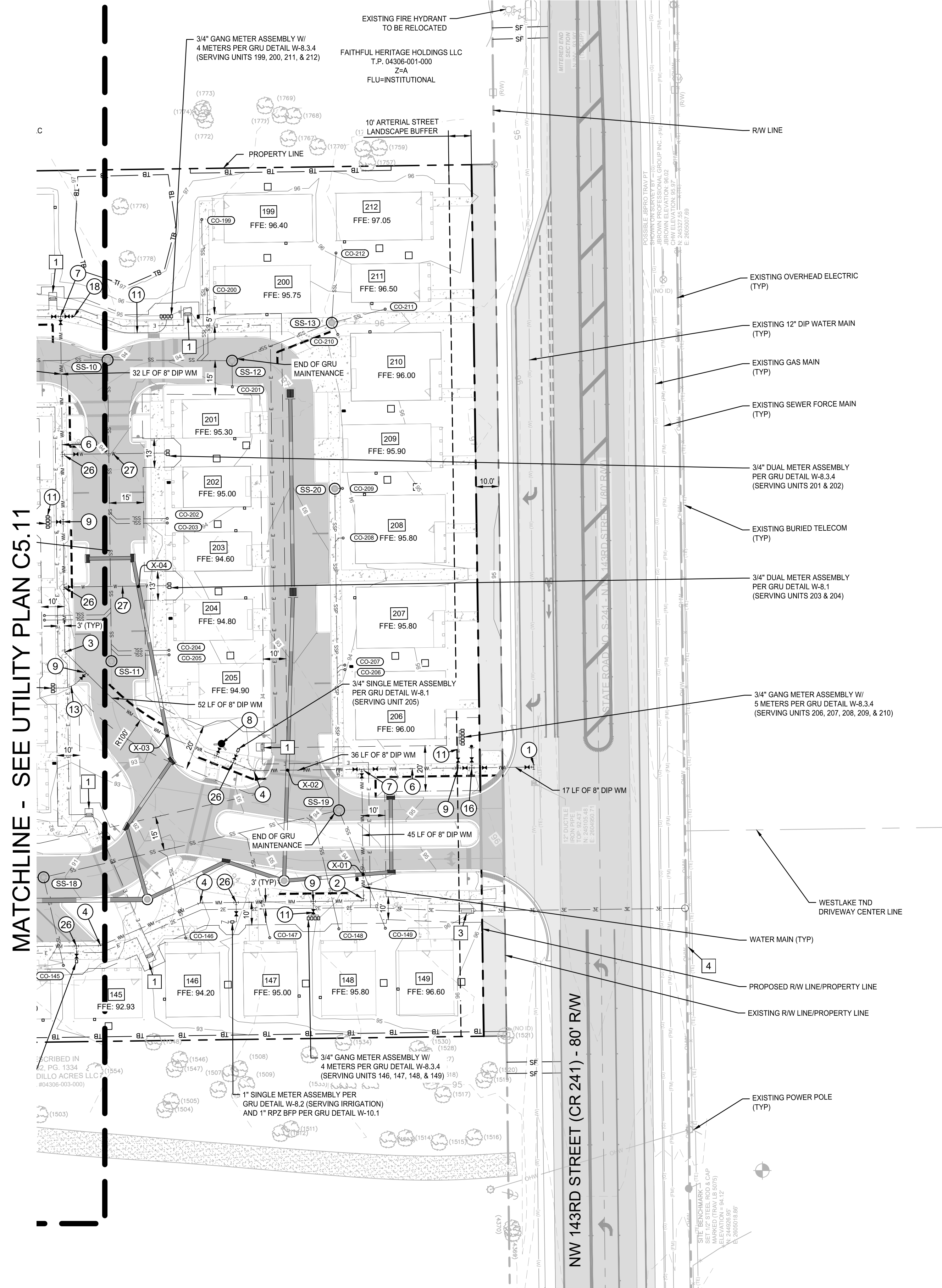
KEY MAP
NTA



SANITARY STRUCTURE TABLE	
STRUCTURE NAME	DETAILS
SS-10	SANITARY MANHOLE RIM: 94.02 INV IN: 83.27 (E 8" PVC) INV IN: 83.27 (S 8" PVC) INV OUT: 83.17 (W 8" PVC)
SS-11	SANITARY MANHOLE RIM: 93.78 INV IN: 83.86 (N 8" PVC)
SS-12	SANITARY MANHOLE RIM: 93.73 INV IN: 83.61 (E 8" PVC) INV IN: 83.61 (S 4" PVC) INV OUT: 83.51 (W 8" PVC)
SS-13	SANITARY MANHOLE RIM: 94.34 INV IN: 89.44 (SE 4" PVC) INV IN: 90.06 (E 4" PVC) INV IN: 90.99 (N 4" PVC) INV OUT: 83.83 (W 8" PVC)
SS-18	SANITARY MANHOLE RIM: 90.74 INV IN: 84.35 (E 8" PVC) INV IN: 85.51 (S 4" PVC) INV OUT: 84.25 (W 8" PVC)
SS-19	SANITARY MANHOLE RIM: 94.20 INV IN: 85.05 (N 8" PVC) INV IN: 90.06 (S 4" PVC) INV OUT: 84.95 (W 8" PVC)
SS-20	SANITARY MANHOLE RIM: 93.76 INV IN: 88.98 (E 4" PVC) INV OUT: 85.69 (S 8" PVC)

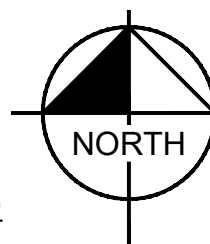
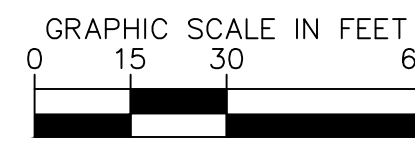
SANITARY PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
SS-10 TO SS-09	8"	189'	0.45%
SS-12 TO SS-10	8"	55'	0.45%
SS-18 TO SS-16	8"	44'	0.45%
SS-19 TO SS-18	8"	133'	0.45%
SS-13 TO SS-12	8"	47'	0.45%
SS-11 TO SS-10	8"	133'	0.45%
SS-20 TO SS-19	8"	142'	0.45%

WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS
X-01	BOT OF PIPE (WATER): 90.77 TOP OF PIPE (STORM): 88.34 VERTICAL CLEARANCE: 2.21
X-02	BOT OF PIPE (WATER): 90.16 TOP OF PIPE (STORM): 88.39 VERTICAL CLEARANCE: 1.56
X-03	BOT OF PIPE (WATER): 89.99 TOP OF PIPE (STORM): 87.59 VERTICAL CLEARANCE: 2.19
X-04	BOT OF PIPE (WATER): 90.39 TOP OF PIPE (STORM): 87.95 VERTICAL CLEARANCE: 2.24



MATCHLINE - SEE UTILITY PLAN C5.11

MATCHLINE - SEE UTILITY PLAN C5.12



LINETYPE AND SYMBOL LEGEND

- SS-##** - SANITARY MANHOLE LABEL
- X-##** - STORM SEWER AND WATER MAIN CROSSING (ALTERNATE CROSSING PER GRU DETAIL W-10.4)
- SS** - SANITARY SEWER MAIN (8" SDR 26 PVC)
- SP** - SANITARY SEWER MAIN - PRIVATE (8" SDR 26 PVC)
- SL** - SANITARY SEWER LATERAL (4" SDR 26 PVC) (MIN. 1% SLOPE AND 36" OF COVER) (ALL SANITARY SEWER LATERALS ARE PRIVATE. END OF GRU MAINTENANCE IS AT THE WYE OF THE SEWER MAIN)
- WM** - WATER MAIN (8" C900 PVC) (UNLESS STATED OTHERWISE)
- W** - WATER SERVICE (SEE PLAN FOR DIMENSIONS)
- 3P** - (1) THREE PHASE LINE IN (1) 4" PVC CONDUIT
- 2P** - (2) SINGLE PHASE LINES IN (2) 2.5" PVC CONDUIT
- 1P** - (1) SINGLE PHASE LINE IN (1) 2.5" PVC CONDUIT
- - - PUBLIC UTILITY EASEMENT (SEE PLAN FOR WIDTHS)
- - - ROOT BARRIERS (SEE MASTER UTILITY PLAN SHEET C5.00 FOR ROOT BARRIER NOTES)
- - SANITARY MANHOLE
- ▲ - FIRE HYDRANT ASSEMBLY
- ◆ - FIRE DEPARTMENT CONNECTION
- △ - GATE VALVE
- T - TEE
- 4 - BENDS
- L - LIGHT POLE (SEE ELECTRICAL SITE PLAN SHEETS E101 - E103)
- - ELECTRIC METER (ATTACHED TO BUILDING)
- - CONDENSER UNIT PAD

SEE SHEETS C7.10 - C7.15 FOR UTILITY DETAILS

WATER FITTING SCHEDULE:

- 12" X 8" TAP W/ 8" GATE VALVE AND BOX (BY GRU)
 - CONTRACTOR SHALL BE RESPONSIBLE FOR NOT, EXCAVATION, CONNECTION TO TAP AND VALVE, AND RESTORATION.
 - CONTRACTOR SHALL COORDINATE WITH GRU WATER/WASTEWATER INSPECTOR 7 DAYS IN ADVANCE.
 - 1 - 12" X 8" PVC OR CLDIP 90° RESTRAINED BEND
 - 2 - 12" X 8" PVC OR CLDIP 45° RESTRAINED BEND
 - 3 - 12" X 8" PVC OR CLDIP 22.5° RESTRAINED BEND
 - 4 - 12" X 8" PVC OR CLDIP 11.25° RESTRAINED BEND
 - 5 - 12" X 8" C900 PVC PIPE
 - 6 - 8" TEE W/ MECHANICAL RESTRAINT
 - 7 - 8" GATE VALVE AND BOX
 - 8 - 6" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
 - 9 - 12" X 2" SADDLE (OR TAPPED TEE)
 - 10 - 2" GATE VALVE AND BOX
 - 11 - 8" X 4" TAPPING SLEEVE
 - 12 - 4" GATE VALVE AND BOX
 - 13 - 2" POLYETHYLENE PIPE
 - 14 - 4" DI PIPE
 - 15 - 2" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE BENEATH PAVEMENT
 - 16 - 8" TEE W/ MECHANICAL RESTRAINT
 - 17 - 8" GATE VALVE AND BOX
 - 18 - 4" TEE W/ MECHANICAL RESTRAINT
 - 19 - 2" GATE VALVE AND BOX
 - 20 - 8" X 3" SADDLE (OR TAPPED TEE)
 - 21 - 3" BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.7)
 - 22 - 8" CAP
 - 23 - 8" X 2" TAPPED CAP
 - 24 - 8" CROSS
 - 25 - 8" GATE VALVE AND BOX
 - 26 - 8" X 2" REDUCER
 - 27 - 8" X 6" REDUCER
 - 28 - 6" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
 - 29 - 1" CROSS
 - 30 - 4" PVC OR CLDIP 90° RESTRAINED BEND
 - 31 - 4" GATE VALVE AND BOX
 - 32 - 4" TEE W/ MECHANICAL RESTRAINT
 - 33 - 4" GATE VALVE AND BOX
 - 34 - 2" PVC OR CLDIP 90° RESTRAINED BEND
 - 35 - 4" PVC OR CLDIP 90° RESTRAINED BEND
 - 36 - 2" PVC OR CLDIP 45° RESTRAINED BEND
 - 37 - 1" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE BENEATH PAVEMENT
 - 38 - 1" TEE W/ MECHANICAL RESTRAINT
 - 39 - 2" TEE W/ MECHANICAL RESTRAINT
- UTILITY LEGEND:**
- 1 - 3.5' X 3.5' TRANSFORMER PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-4
 - 2 - 41" X 26" US-2 CABINET PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-3
 - 3 - 76" X 26" US-4 CABINET PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-3
 - 4 - PROPOSED POWER POLE
 - 5 - 12' WIDE STABILIZED ACCESS ROAD (MIN. LBR 30)

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PHONE: 352-374-3274
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
DAVID C. SOWELL
FLORIDA LICENSE NUMBER 66531

KHA PROJECT 142425000
DATE DECEMBER 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

UTILITY PLAN

GAINESVILLE COTTAGES
TND
PREPARED FOR
SANDS COMPANIES, INC.
ALACHUA COUNTY FLORIDA

SHEET NUMBER
C5.10

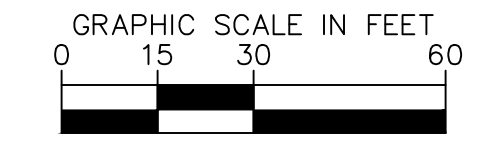
NO. DATE BY

REVISIONS

NOT FOR CONSTRUCTION

MATCHLINE - SEE UTILITY PLAN C5.11

KEY MAP



LINETYPE AND SYMBOL LEGEND

- SS-## - SANITARY MANHOLE LABEL
- X-## - STORM SEWER AND WATER MAIN CROSSING (ALTERNATE CROSSING PER GRU DETAIL W-10.4)
- SS - SANITARY SEWER MAIN (8" SDR 26 PVC)
- SSP - SANITARY SEWER MAIN - PRIVATE (8" SDR 26 PVC)
- SSL - SANITARY SEWER LATERAL (4" SDR 26 PVC) (MIN. 1% SLOPE AND 36" OF COVER) (ALL SANITARY SEWER LATERALS ARE PRIVATE. END OF GRU MAINTENANCE IS AT THE WYE OF THE SEWER MAIN)
- WM - WATER MAIN (8" C900 PVC) (UNLESS STATED OTHERWISE)
- WS - WATER SERVICE (SEE PLAN FOR SIZEMATERIAL)
- 3 - (1) THREE PHASE LINE IN (1) 4" PVC CONDUIT
- 2 - (2) SINGLE PHASE LINES IN (2) 2.5" PVC CONDUIT
- 1 - (1) SINGLE PHASE LINE IN (1) 2.5" PVC CONDUIT
- - - PUBLIC UTILITY EASEMENT (SEE PLAN FOR WIDTHS)
- - - ROOT BARRIERS (SEE MASTER UTILITY PLAN SHEET C5.00 FOR ROOT BARRIER NOTES)
- ⊙ - SANITARY MANHOLE
- ▲ - FIRE HYDRANT ASSEMBLY
- - FIRE DEPARTMENT CONNECTION
- ▶ - GATE VALVE
- ⊥ - TEE
- ⋈ - BENDS
- ⊙ - LIGHT POLE (SEE ELECTRICAL SITE PLAN SHEETS E101 - E103)
- - ELECTRIC METER (ATTACHED TO BUILDING)
- - CONDENSER UNIT PAD

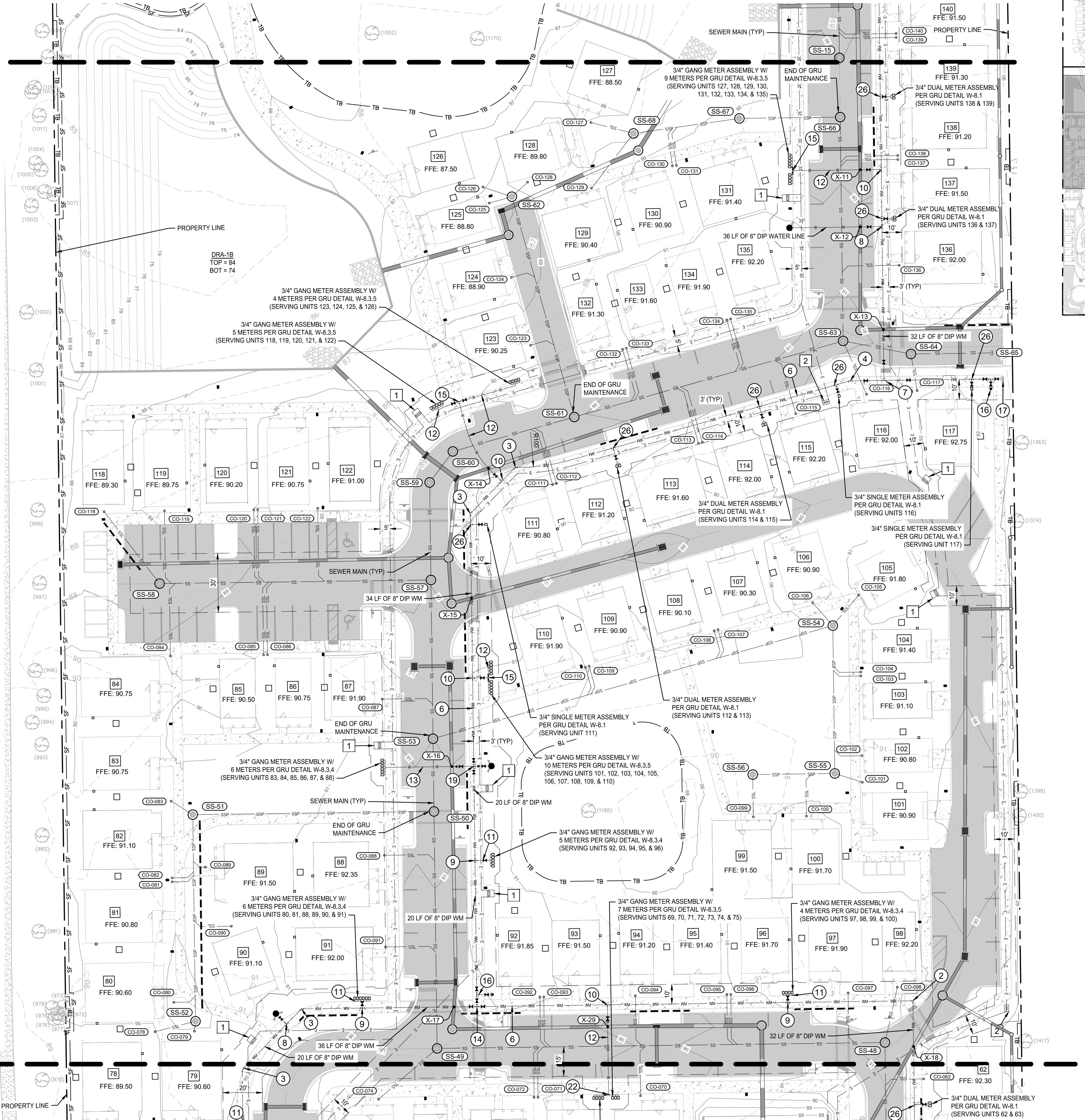
SEE SHEETS C7.10 - C7.15 FOR UTILITY DETAILS

WATER FITTING SCHEDULE:

- 1 - 12" X 8" TAP W/ 8" GATE VALVE AND BOX (BY GRU)
- 2 - CONTRACTOR SHALL BE RESPONSIBLE FOR MOT, EXCAVATION, CONNECTION TO TAP AND VALVE, AND RESTORATION.
- 3 - CONTRACTOR SHALL COORDINATE WITH GRU WATER/WASTEWATER INSPECTOR 7 DAYS IN ADVANCE.
- 4 - 1" 8" PVC OR CLDIP 90° RESTRAINED BEND
- 5 - 1" 8" PVC OR CLDIP 45° RESTRAINED BEND
- 6 - 1" 8" PVC OR CLDIP 22.5° RESTRAINED BEND
- 7 - 1" 8" PVC OR CLDIP 11.25° RESTRAINED BEND
- 8 - 1" 8" C900 PVC PIPE
- 9 - 1" 8" TEE W/ MECHANICAL RESTRAINT
- 10 - 1" 8" TEE W/ MECHANICAL RESTRAINT
- 11 - 1" 8" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
- 12 - 1" 8" X 2" SADDLE (OR TAPPED TEE)
- 13 - 1" 2" GATE VALVE AND BOX
- 14 - 1" 8" X 4" TAPPING SLEEVE
- 15 - 1" 4" GATE VALVE AND BOX
- 16 - 1" 2" POLYETHYLENE PIPE
- 17 - 1" 4" DI PIPE
- 18 - 1" 2" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE BENEATH PAVEMENT
- 19 - 1" 8" TEE W/ MECHANICAL RESTRAINT
- 20 - 1" 4" GATE VALVE AND BOX
- 21 - 1" 8" X 3" SADDLE (OR TAPPED TEE)
- 22 - 3" 3" BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.7)
- 23 - 1" 8" CAP
- 24 - 1" 8" X 2" TAPPED CAP
- 25 - 1" 8" CROSS
- 26 - 3" 8" GATE VALVE AND BOX
- 27 - 1" 8" X 2" REDUCER
- 28 - 1" 8" X 6" REDUCER
- 29 - 1" 8" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
- 30 - 1" 4" CROSS
- 31 - 1" 4" PVC OR CLDIP 90° RESTRAINED BEND
- 32 - 1" 4" GATE VALVE AND BOX
- 33 - 1" 4" TEE W/ MECHANICAL RESTRAINT
- 34 - 1" 4" GATE VALVE AND BOX
- 35 - 1" 2" PVC OR CLDIP 90° RESTRAINED BEND
- 36 - 1" 2" PVC OR CLDIP 45° RESTRAINED BEND
- 37 - 1" 8" X 1" SADDLE W/ 1" CORP STOP & 1" POLYETHYLENE PIPE
- 38 - 1" 1" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE BENEATH PAVEMENT
- 39 - 1" 2" TEE W/ MECHANICAL RESTRAINT
- 40 - 3.5" X 3.5" TRANSFORMER PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-4
- 41 - 41" X 26" US-2 CABINET PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-3
- 42 - 76" X 26" US-4 CABINET PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-3
- 43 - PROPOSED POWER POLE
- 44 - 12' WIDE STABILIZED ACCESS ROAD (MIN. LBR 30)

CALL 2 BUSINESS DAYS BEFORE YOU DIG
IT'S THE LAW!
DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SANITARY STRUCTURE TABLE	
STRUCTURE NAME	DETAILS
SS-15	SANITARY MANHOLE RIM: 90.04 INV. OUT: 84.11 (N 8" PVC)
SS-48	SANITARY MANHOLE RIM: 90.77 INV. IN: 78.83 (W 8" PVC) INV. IN: 86.38 (N 4" PVC) INV. OUT: 78.73 (S 8" PVC)
SS-49	SANITARY MANHOLE RIM: 90.89 INV. IN: 79.95 (N 8" PVC) INV. IN: 85.44 (SW 4" PVC) INV. OUT: 79.85 (E 8" PVC)
SS-50	SANITARY MANHOLE RIM: 91.46 INV. IN: 80.59 (W 8" PVC) INV. IN: 80.59 (N 8" PVC) INV. OUT: 80.49 (S 8" PVC)
SS-51	SANITARY MANHOLE RIM: 90.39 INV. IN: 81.24 (S 8" PVC) INV. IN: 85.26 (NW 4" PVC) INV. OUT: 81.14 (E 8" PVC)
SS-52	SANITARY MANHOLE RIM: 89.95 INV. IN: 85.23 (S 4" PVC) INV. IN: 84.84 (W 4" PVC) INV. OUT: 81.72 (N 8" PVC)
SS-53	SANITARY MANHOLE RIM: 91.00 INV. IN: 80.86 (E 8" PVC) INV. IN: 80.86 (N 8" PVC) INV. OUT: 80.78 (S 8" PVC)
SS-54	SANITARY MANHOLE RIM: 90.48 INV. IN: 81.91 (S 8" PVC) INV. IN: 85.94 (NE 4" PVC) INV. IN: 85.32 (NW 4" PVC) INV. OUT: 81.81 (W 8" PVC)
SS-55	SANITARY MANHOLE RIM: 90.50 INV. IN: 82.35 (W 8" PVC) INV. IN: 85.28 (E 4" PVC) INV. OUT: 82.25 (N 8" PVC)
SS-56	SANITARY MANHOLE RIM: 90.75 INV. IN: 85.88 (S 4" PVC) INV. OUT: 82.83 (S 8" PVC)
SS-57	SANITARY MANHOLE RIM: 89.96 INV. IN: 81.32 (W 8" PVC) INV. IN: 81.32 (N 8" PVC) INV. OUT: 81.22 (S 8" PVC)
SS-58	SANITARY MANHOLE RIM: 90.50 INV. OUT: 81.94 (E 8" PVC) INV. OUT: 83.24 (NW 4" PVC)
SS-59	SANITARY MANHOLE RIM: 89.30 INV. IN: 81.64 (NE 8" PVC) INV. OUT: 81.54 (S 8" PVC)
SS-60	SANITARY MANHOLE RIM: 89.27 INV. IN: 81.83 (E 8" PVC) INV. OUT: 81.73 (SW 8" PVC)
SS-61	SANITARY MANHOLE RIM: 89.94 INV. IN: 82.22 (N 8" PVC) INV. IN: 82.22 (E 8" PVC) INV. OUT: 82.75 (S 8" PVC)
SS-62	SANITARY MANHOLE RIM: 89.76 INV. IN: 84.17 (NE 4" PVC) INV. IN: 82.85 (W 4" PVC) INV. IN: 83.31 (W 4" PVC) INV. OUT: 82.75 (S 8" PVC)
SS-63	SANITARY MANHOLE RIM: 91.16 INV. IN: 82.96 (E 8" PVC) INV. IN: 82.96 (N 8" PVC) INV. OUT: 82.86 (W 8" PVC) INV. OUT: 86.29 (SE 4" PVC)
SS-64	SANITARY MANHOLE RIM: 90.73 INV. IN: 83.22 (E 8" PVC) INV. IN: 83.12 (W 8" PVC) INV. OUT: 86.00 (S 4" PVC)
SS-65	SANITARY SEWER STUB-OUT WITH 8" PLUG RIM: 84.13 INV. OUT: 83.40 (W 8" PVC)
SS-66	SANITARY MANHOLE RIM: 89.74 INV. IN: 83.57 (W 8" PVC) INV. OUT: 83.47 (S 8" PVC)
SS-67	SANITARY MANHOLE RIM: 90.28 INV. IN: 83.80 (W 8" PVC) INV. OUT: 83.90 (E 8" PVC)
SS-68	SANITARY MANHOLE RIM: 89.83 INV. IN: 84.25 (SW 4" PVC) INV. IN: 84.25 (W 4" PVC) INV. OUT: 84.15 (E 8" PVC)



WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS
X-11	BOT OF PIPE (WATER): 86.58 TOP OF PIPE (STORM): 84.04 VERTICAL CLEARANCE: 2.33
X-12	BOT OF PIPE (WATER): 86.86 TOP OF PIPE (STORM): 84.20 VERTICAL CLEARANCE: 2.45
X-13	BOT OF PIPE (WATER): 87.4 TOP OF PIPE (STORM): 84.53 VERTICAL CLEARANCE: 2.68
X-14	BOT OF PIPE (WATER): 86.22 TOP OF PIPE (STORM): 84.75 VERTICAL CLEARANCE: 1.26
X-15	BOT OF PIPE (WATER): 86.48 TOP OF PIPE (STORM): 84.96 VERTICAL CLEARANCE: 1.29
X-16	BOT OF PIPE (WATER): 87.64 TOP OF PIPE (STORM): 84.93 VERTICAL CLEARANCE: 2.50
X-17	BOT OF PIPE (WATER): 87.08 TOP OF PIPE (STORM): 84.80 VERTICAL CLEARANCE: 2.03
X-18	BOT OF PIPE (WATER): 87.34 TOP OF PIPE (STORM): 84.71 VERTICAL CLEARANCE: 2.37
X-29	BOT OF PIPE (WATER): 86.97 TOP OF PIPE (STORM): 84.35 VERTICAL CLEARANCE: 2.37

SANITARY PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
SS-15 TO SS-14	8"	148'	0.45%
SS-48 TO SS-47	8"	133'	0.45%
SS-49 TO SS-48	8"	227'	0.45%
SS-50 TO SS-49	8"	120'	0.45%
SS-51 TO SS-50	8"	123'	0.45%
SS-52 TO SS-51	8"	105'	0.45%
SS-53 TO SS-50	8"	37'	0.45%
SS-54 TO SS-53	8"	211'	0.45%
SS-55 TO SS-54	8"	75'	0.45%
SS-57 TO SS-53	8"	81'	0.45%
SS-58 TO SS-57	8"	138'	0.45%
SS-59 TO SS-57	8"	50'	0.45%
SS-60 TO SS-59	8"	20'	0.45%
SS-61 TO SS-60	8"	64'	0.45%
SS-62 TO SS-61	8"	116'	0.45%
SS-63 TO SS-61	8"	142'	0.45%
SS-64 TO SS-63	8"	35'	0.45%
SS-66 TO SS-63	8"	114'	0.45%
SS-66 TO SS-55	8"	42'	0.45%
SS-65 TO SS-64	8"	42'	0.45%
SS-67 TO SS-66	8"	51'	0.45%
SS-68 TO SS-67	8"	54'	0.45%

ARMADILLO ACRES LLC
T.P. 04308-003-000
2nd AP BR
FLU-OFFICE COMMERCIAL

BROOKSIDE PARTNERS LTD
T.P. 04305-003-001
2nd R-2
FLU-H-43 DUJAC

MATCHLINE - SEE UTILITY PLAN C5.13

Kimley»Horn
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800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
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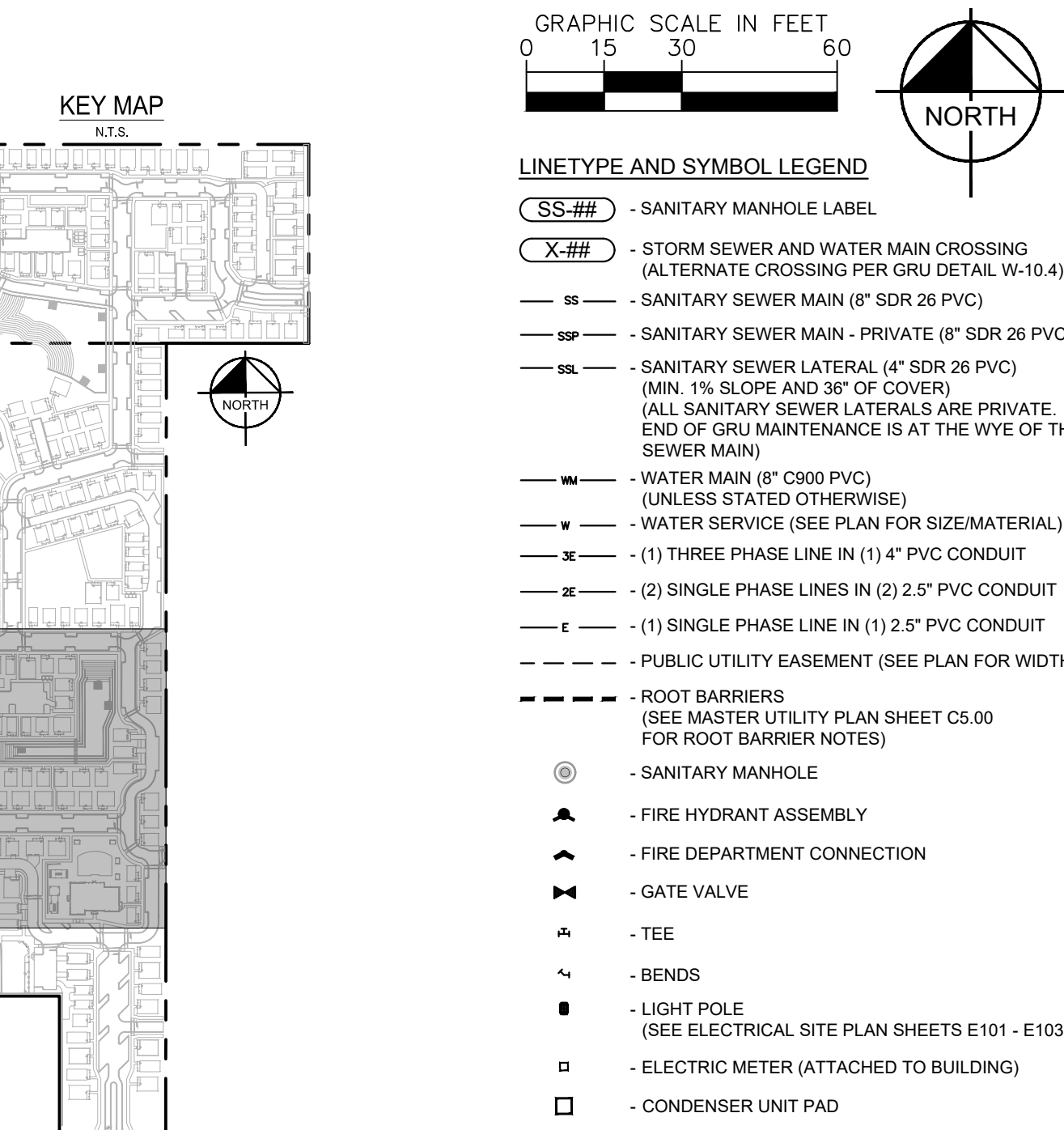
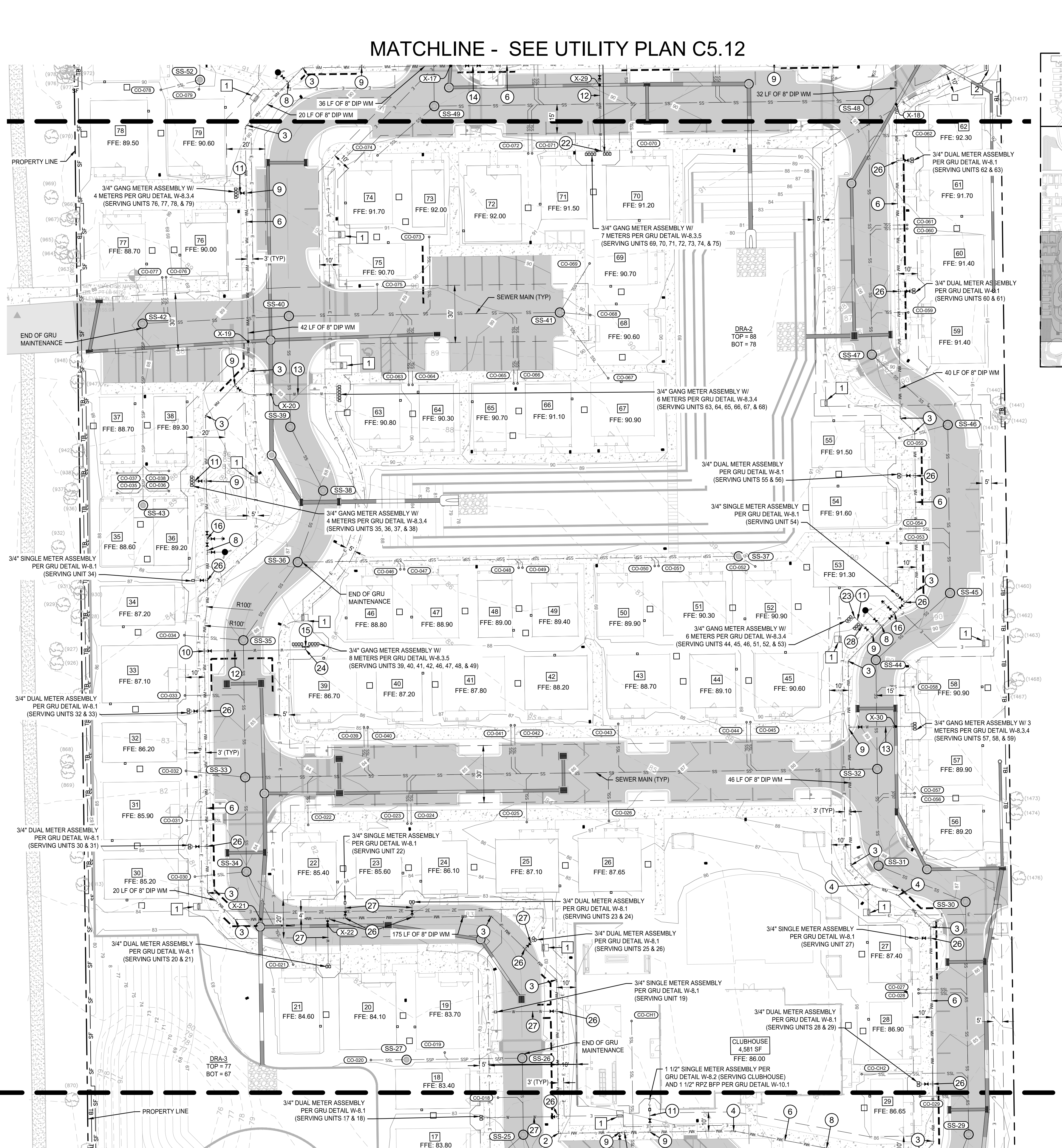
GAINESVILLE COTTAGES TND
PREPARED FOR SANDS COMPANIES, INC.
ALACHUA COUNTY FLORIDA

SHEET NUMBER C5.12

NO.	REVISIONS	DATE	BY

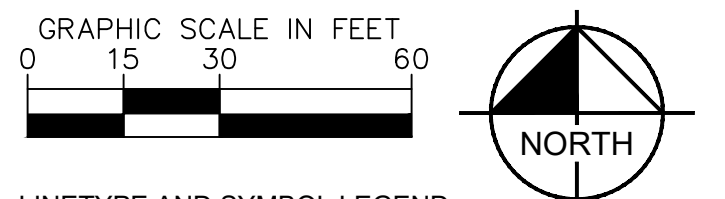
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 PLOT: e:\dot\142420000-Drawings\142420000-Utility\142420000-Utility.dwg - Plot: 2/1/2023 10:00 AM - Plotter: HP DesignJet T1100e - Plot Size: 36" x 48" - Plot Scale: 1" = 30' - Plot Orientation: Landscape
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SANITARY STRUCTURE TABLE	
STRUCTURE NAME	DETAILS:
SS-25	SANITARY MANHOLE RIM: 82.83 INV IN: 75.69 (N 8" PVC) INV IN: 77.87 (SW 4" PVC) INV OUT: 75.59 (SE 8" PVC)
SS-26	SANITARY MANHOLE RIM: 82.36 INV IN: 75.97 (W 8" PVC) INV OUT: 75.87 (S 8" PVC)
SS-29	SANITARY MANHOLE RIM: 84.24 INV IN: 75.29 (N 8" PVC) INV OUT: 75.19 (S 8" PVC)
SS-30	SANITARY MANHOLE RIM: 86.82 INV IN: 75.94 (NW 8" PVC) INV OUT: 75.84 (SE 8" PVC)
SS-31	SANITARY MANHOLE RIM: 87.87 INV IN: 76.27 (N 8" PVC) INV OUT: 76.17 (SE 8" PVC)
SS-32	SANITARY MANHOLE RIM: 88.87 INV IN: 76.59 (W 8" PVC) INV OUT: 76.49 (E 8" PVC)
SS-33	SANITARY MANHOLE RIM: 84.48 INV IN: 78.18 (S 8" PVC) INV IN: 78.18 (N 8" PVC) INV IN: 80.28 (W 4" PVC) INV OUT: 78.08 (E 8" PVC)
SS-34	SANITARY MANHOLE RIM: 83.97 INV IN: 76.51 (W 4" PVC) INV IN: 76.68 (SE 4" PVC) INV OUT: 78.41 (N 8" PVC)
SS-35	SANITARY MANHOLE RIM: 86.01 INV IN: 76.61 (NE 8" PVC) INV IN: 81.44 (W 4" PVC) INV OUT: 78.51 (S 8" PVC)
SS-36	SANITARY MANHOLE RIM: 87.06 INV IN: 78.93 (E 8" PVC) INV IN: 78.93 (N 8" PVC) INV OUT: 78.83 (SW 8" PVC)
SS-37	SANITARY MANHOLE RIM: 86.95 INV IN: 85.27 (SE 4" PVC) INV OUT: 79.97 (W 8" PVC)
SS-38	SANITARY MANHOLE RIM: 87.91 INV IN: 79.21 (NW 8" PVC) INV OUT: 79.11 (S 8" PVC)
SS-39	SANITARY MANHOLE RIM: 88.71 INV IN: 79.48 (N 8" PVC) INV OUT: 79.38 (SE 8" PVC)
SS-40	SANITARY MANHOLE RIM: 89.87 INV IN: 79.84 (W 8" PVC) INV IN: 79.84 (E 8" PVC) INV IN: 79.74 (SW 8" PVC)
SS-41	SANITARY MANHOLE RIM: 86.26 INV IN: 84.76 (NE 4" PVC) INV IN: 84.70 (E 4" PVC) INV IN: 85.01 (SE 4" PVC) INV OUT: 80.49 (W 8" PVC)
SS-42	SANITARY MANHOLE RIM: 86.12 INV IN: 80.29 (S 8" PVC) INV OUT: 80.19 (E 8" PVC)
SS-43	SANITARY MANHOLE RIM: 88.32 INV OUT: 80.71 (N 8" PVC)
SS-44	SANITARY MANHOLE RIM: 89.58 INV IN: 76.95 (NE 8" PVC) INV OUT: 76.85 (S 8" PVC)
SS-45	SANITARY MANHOLE RIM: 90.32 INV IN: 77.29 (N 8" PVC) INV IN: 85.06 (W 4" PVC) INV OUT: 77.19 (SW 8" PVC)
SS-46	SANITARY MANHOLE RIM: 90.48 INV IN: 77.78 (NW 8" PVC) INV IN: 86.38 (N 4" PVC) INV OUT: 78.73 (S 8" PVC)
SS-47	SANITARY MANHOLE RIM: 89.94 INV IN: 78.13 (N 8" PVC) INV OUT: 78.03 (SE 8" PVC)
SS-48	SANITARY MANHOLE RIM: 90.77 INV IN: 78.83 (W 8" PVC) INV IN: 86.38 (N 4" PVC) INV OUT: 78.73 (S 8" PVC)
SS-49	SANITARY MANHOLE RIM: 90.89 INV IN: 79.95 (N 8" PVC) INV IN: 85.44 (SW 4" PVC) INV OUT: 78.85 (E 8" PVC)
SS-52	SANITARY MANHOLE RIM: 90.95 INV IN: 85.23 (S 4" PVC) INV IN: 84.84 (W 4" PVC) INV OUT: 81.72 (N 8" PVC)



WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS:
X-17	BOT OF PIPE (WATER): 87.08 TOP OF PIPE (STORM): 84.80 VERTICAL CLEARANCE: 2.03
X-18	BOT OF PIPE (WATER): 87.34 TOP OF PIPE (STORM): 84.71 VERTICAL CLEARANCE: 2.37
X-19	BOT OF PIPE (WATER): 83.06 TOP OF PIPE (STORM): 83.06 VERTICAL CLEARANCE: 1.01
X-20	BOT OF PIPE (WATER): 86.36 TOP OF PIPE (STORM): 83.91 VERTICAL CLEARANCE: 2.20
X-21	BOT OF PIPE (WATER): 80.17 TOP OF PIPE (STORM): 77.88 VERTICAL CLEARANCE: 2.04
X-22	BOT OF PIPE (WATER): 80.33 TOP OF PIPE (STORM): 78.88 VERTICAL CLEARANCE: 1.44
X-29	BOT OF PIPE (WATER): 86.97 TOP OF PIPE (STORM): 84.35 VERTICAL CLEARANCE: 2.37
X-30	BOT OF PIPE (WATER): 86.44 TOP OF PIPE (STORM): 81.08 VERTICAL CLEARANCE: 5.15

SANITARY PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	
SS-25 TO SS-24	8"	34'	0.45%	
SS-26 TO SS-25	8"	40'	0.45%	
SS-29 TO SS-28	8"	22'	0.45%	
SS-30 TO SS-29	8"	122'	0.45%	
SS-31 TO SS-30	8"	49'	0.45%	
SS-32 TO SS-31	8"	51'	0.45%	
SS-33 TO SS-32	8"	331'	0.45%	
SS-34 TO SS-33	8"	49'	0.45%	
SS-44 TO SS-32	8"	57'	0.45%	
SS-45 TO SS-44	8"	52'	0.45%	
SS-46 TO SS-45	8"	88'	0.45%	
SS-47 TO SS-46	8"	54'	0.45%	
SS-48 TO SS-47	8"	133'	0.45%	
SS-49 TO SS-48	8"	227'	0.45%	
SS-35 TO SS-33	8"	72'	0.45%	
SS-36 TO SS-35	8"	50'	0.45%	
SS-37 TO SS-36	8"	231'	0.45%	
SS-33 TO SS-39	8"	58'	0.45%	
SS-42 TO SS-40	8"	77'	0.45%	
SS-41 TO SS-40	8"	142'	0.45%	
SS-50 TO SS-49	8"	120'	0.45%	
SS-27 TO SS-26	8"	61'	0.45%	
SS-43 TO SS-42	8"	95'	0.45%	
SS-38 TO SS-36	8"	40'	0.45%	
SS-39 TO SS-38	8"	38'	0.45%	



- LINETYPE AND SYMBOL LEGEND**
- SS-### - SANITARY MANHOLE LABEL
 - X-### - STORM SEWER AND WATER MAIN CROSSING (ALTERNATE CROSSING PER GRU DETAIL W-10.4)
 - SS - SANITARY SEWER MAIN (8" SDR 26 PVC)
 - SSP - SANITARY SEWER MAIN - PRIVATE (8" SDR 26 PVC)
 - SSL - SANITARY SEWER LATERAL (4" SDR 26 PVC) (MIN. 1% SLOPE AND 36" OF COVER) (ALL SANITARY SEWER LATERALS ARE PRIVATE. END OF GRU MAINTENANCE IS AT THE WYE OF THE SEWER MAIN)
 - WM - WATER MAIN (8" C900 PVC) (UNLESS STATED OTHERWISE)
 - WS - WATER SERVICE (SEE PLAN FOR SIZEMATERIAL)
 - 3 - (1) THREE PHASE LINE IN (1) 4" PVC CONDUIT
 - 2 - (2) SINGLE PHASE LINES IN (2) 2.5" PVC CONDUIT
 - 1 - (1) SINGLE PHASE LINE IN (1) 2.5" PVC CONDUIT
 - - - - - PUBLIC UTILITY EASEMENT (SEE PLAN FOR WIDTHS)
 - - - - - ROOT BARRIERS (SEE MASTER UTILITY PLAN SHEET C5.00 FOR FOOT BARRIER NOTES)
 - - SANITARY MANHOLE
 - ▲ - FIRE HYDRANT ASSEMBLY
 - ◆ - FIRE DEPARTMENT CONNECTION
 - ▼ - GATE VALVE
 - ⊕ - TEE
 - ⌒ - BENDS
 - ☛ - LIGHT POLE (SEE ELECTRICAL SITE PLAN SHEETS E101 - E103)
 - - ELECTRIC METER (ATTACHED TO BUILDING)
 - - CONDENSER UNIT PAD

- SEE SHEETS C7.10 - C7.15 FOR UTILITY DETAILS**
- WATER FITTING SCHEDULE:**
- 12" X 8" TAP W/ 8" GATE VALVE AND BOX (BY GRU)
 - CONTRACTOR SHALL BE RESPONSIBLE FOR MOT, EXCAVATION, CONNECTION TO TAP AND VALVE, AND RESTORATION.
 - CONTRACTOR SHALL COORDINATE WITH GRU WATERWASTEWATER INSPECTOR 7 DAYS IN ADVANCE.
 - 1" - 8" PVC OR CLDIP 90° RESTRAINED BEND
 - 1" - 8" PVC OR CLDIP 45° RESTRAINED BEND
 - 1" - 8" PVC OR CLDIP 22.5° RESTRAINED BEND
 - 1" - 8" C900 PVC PIPE
 - 1" - 8" TEE W/ MECHANICAL RESTRAINT
 - 1" - 8" GATE VALVE AND BOX
 - 1" - 6" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
 - 1" - 8" X 2" SADDLE (OR TAPPED TEE)
 - 1" - 2" GATE VALVE AND BOX
 - 1" - 8" X 4" TAPPING SLEEVE
 - 1" - 4" GATE VALVE AND BOX
 - 1" - 2" POLYETHYLENE PIPE
 - 1" - 4" DI PIPE
 - 1" - 2" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE BENEATH PAVEMENT
 - 1" - 8" TEE W/ MECHANICAL RESTRAINT
 - 1" - 4" GATE VALVE AND BOX
 - 1" - 4" TEE W/ MECHANICAL RESTRAINT
 - 1" - 4" GATE VALVE AND BOX
 - 1" - 8" X 3" SADDLE (OR TAPPED TEE)
 - 1" - 3" - 3" GATE VALVE AND BOX
 - 1" - 3" BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.7)
 - 1" - 8" X 3" SADDLE (OR TAPPED TEE)
 - 1" - 8" X 2" TAPPED CAP
 - 1" - 8" X 2" TAPPED CAP
 - 1" - 8" CROSS
 - 1" - 8" GATE VALVE AND BOX
 - 1" - 8" X 2" REDUCER
 - 1" - 8" X 6" REDUCER
 - 1" - 6" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
 - 1" - 4" CROSS
 - 1" - 4" PVC OR CLDIP 90° RESTRAINED BEND
 - 1" - 4" GATE VALVE AND BOX
 - 1" - 4" TEE W/ MECHANICAL RESTRAINT
 - 1" - 4" GATE VALVE AND BOX
 - 1" - 2" PVC OR CLDIP 90° RESTRAINED BEND
 - 1" - 4" PVC OR CLDIP 90° RESTRAINED BEND
 - 1" - 2" PVC OR CLDIP 45° RESTRAINED BEND
 - 1" - 8" X 1" SADDLE W/ 1" CORP STOP & 1" POLYETHYLENE PIPE
 - 1" - 1" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE BENEATH PAVEMENT
 - 1" - 2" TEE W/ MECHANICAL RESTRAINT

- UTILITY LEGEND:**
- 3.5' X 3.5' TRANSFORMER PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-4
 - 41" X 26" US-2 CABINET PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-3
 - 76" X 26" US-4 CABINET PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-3
 - PROPOSED POWER POLE
 - 12' WIDE STABILIZED ACCESS ROAD (MIN. LBR 30)

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UTILITY PLAN
PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA

GAINESVILLE COTTAGES TND
SHEET NUMBER **C5.13**

PROJECT	142425000	DATE	DECEMBER 2023	SCALE	AS SHOWN	DESIGNED BY	KHA	DRAWN BY	KHA	CHECKED BY	KHA	DATE	
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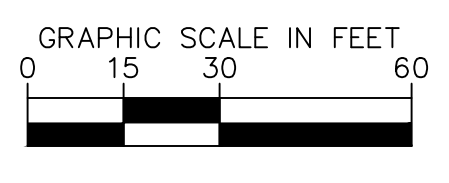
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MATCHLINE - SEE UTILITY PLAN C5.13

KEY MAP



LINETYPE AND SYMBOL LEGEND

- SS-##** - SANITARY MANHOLE LABEL
- X-##** - STORM SEWER AND WATER MAIN CROSSING (ALTERNATE CROSSING PER GRU DETAIL W-10.4)
- SS - SANITARY SEWER MAIN (8" SDR 26 PVC)
- SSP - SANITARY SEWER MAIN - PRIVATE (8" SDR 26 PVC)
- SSL - SANITARY SEWER LATERAL (4" SDR 26 PVC) (MIN. 1% SLOPE AND 36" OF COVER) (ALL SANITARY SEWER LATERALS ARE PRIVATE. END OF GRU MAINTENANCE IS AT THE WYE OF THE SEWER MAIN)
- WM - WATER MAIN (8" C900 PVC) (UNLESS STATED OTHERWISE)
- WS - WATER SERVICE (SEE PLAN FOR SIZE/MATERIAL)
- 3 - (1) THREE PHASE LINE IN (1) 4" PVC CONDUIT
- 2 - (2) SINGLE PHASE LINES IN (2) 2.5" PVC CONDUIT
- 1 - (1) SINGLE PHASE LINE IN (1) 2.5" PVC CONDUIT
- - - - - PUBLIC UTILITY EASEMENT (SEE PLAN FOR WIDTHS)
- - - - - ROOT BARRIERS (SEE MASTER UTILITY PLAN SHEET C5.00 FOR ROOT BARRIER NOTES)
- ⊙ - SANITARY MANHOLE
- ▲ - FIRE HYDRANT ASSEMBLY
- ◀ - FIRE DEPARTMENT CONNECTION
- ▶ - GATE VALVE
- ⊥ - TEE
- ⋈ - BENDS
- ⊙ - LIGHT POLE (SEE ELECTRICAL SITE PLAN SHEETS E101 - E103)
- ⊠ - ELECTRIC METER (ATTACHED TO BUILDING)
- - CONDENSER UNIT PAD

SEE SHEETS C7.10 - C7.15 FOR UTILITY DETAILS

WATER FITTING SCHEDULE:

- 1 - 12" X 8" TAP W/ 8" GATE VALVE AND BOX (BY GRU)
- 2 - CONTRACTOR SHALL BE RESPONSIBLE FOR NOT, EXCAVATION, CONNECTION TO TAP AND VALVE, AND RESTORATION.
- 3 - CONTRACTOR SHALL COORDINATE WITH GRU WATER/WASTEWATER INSPECTOR 7 DAYS IN ADVANCE.
- 4 - 1" 8" PVC OR CLDIP 90° RESTRAINED BEND
- 5 - 1" 8" PVC OR CLDIP 45° RESTRAINED BEND
- 6 - 1" 8" PVC OR CLDIP 22.5° RESTRAINED BEND
- 7 - 1" 8" PVC OR CLDIP 11.25° RESTRAINED BEND
- 8 - 1" 8" C900 PVC PIPE
- 9 - 1" 8" TEE W/ MECHANICAL RESTRAINT
- 10 - 3" 8" GATE VALVE AND BOX
- 11 - 1" 8" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
- 12 - 1" 8" X 2" SADDLE (OR TAPPED TEE)
- 13 - 1" 2" GATE VALVE AND BOX
- 14 - 1" 8" X 4" TAPPING SLEEVE
- 15 - 1" 4" GATE VALVE AND BOX
- 16 - 1" 2" POLYETHYLENE PIPE
- 17 - 1" 4" DI PIPE
- 18 - 1" 2" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE
- 19 - 1" 8" TEE W/ MECHANICAL RESTRAINT
- 20 - 2" 8" GATE VALVE AND BOX
- 21 - 1" 4" TEE W/ MECHANICAL RESTRAINT
- 22 - 2" 4" GATE VALVE AND BOX
- 23 - 1" 8" X 3" SADDLE (OR TAPPED TEE)
- 24 - 1" 3" BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.7)
- 25 - 1" 8" CAP
- 26 - 1" 8" X 2" TAPPED CAP
- 27 - 1" 8" CROSS
- 28 - 3" 8" GATE VALVE AND BOX
- 29 - 1" 8" X 2" REDUCER
- 30 - 1" 8" X 6" REDUCER
- 31 - 1" 8" FH ASSEMBLY PERPENDICULAR TO MAIN (PER GRU DETAIL W-5.1)
- 32 - 1" 4" CROSS
- 33 - 1" 4" PVC OR CLDIP 90° RESTRAINED BEND
- 34 - 1" 4" GATE VALVE AND BOX
- 35 - 1" 4" TEE W/ MECHANICAL RESTRAINT
- 36 - 1" 4" GATE VALVE AND BOX
- 37 - 1" 2" PVC OR CLDIP 90° RESTRAINED BEND
- 38 - 1" 2" PVC OR CLDIP 45° RESTRAINED BEND
- 39 - 1" 8" X 1" SADDLE W/ 1" CORP STOP & 1" POLYETHYLENE PIPE
- 40 - 1" 1" POLYETHYLENE PIPE W/ 3" HDPE SLEEVE BENEATH PAVEMENT
- 41 - 1" 2" TEE W/ MECHANICAL RESTRAINT

UTILITY LEGEND:

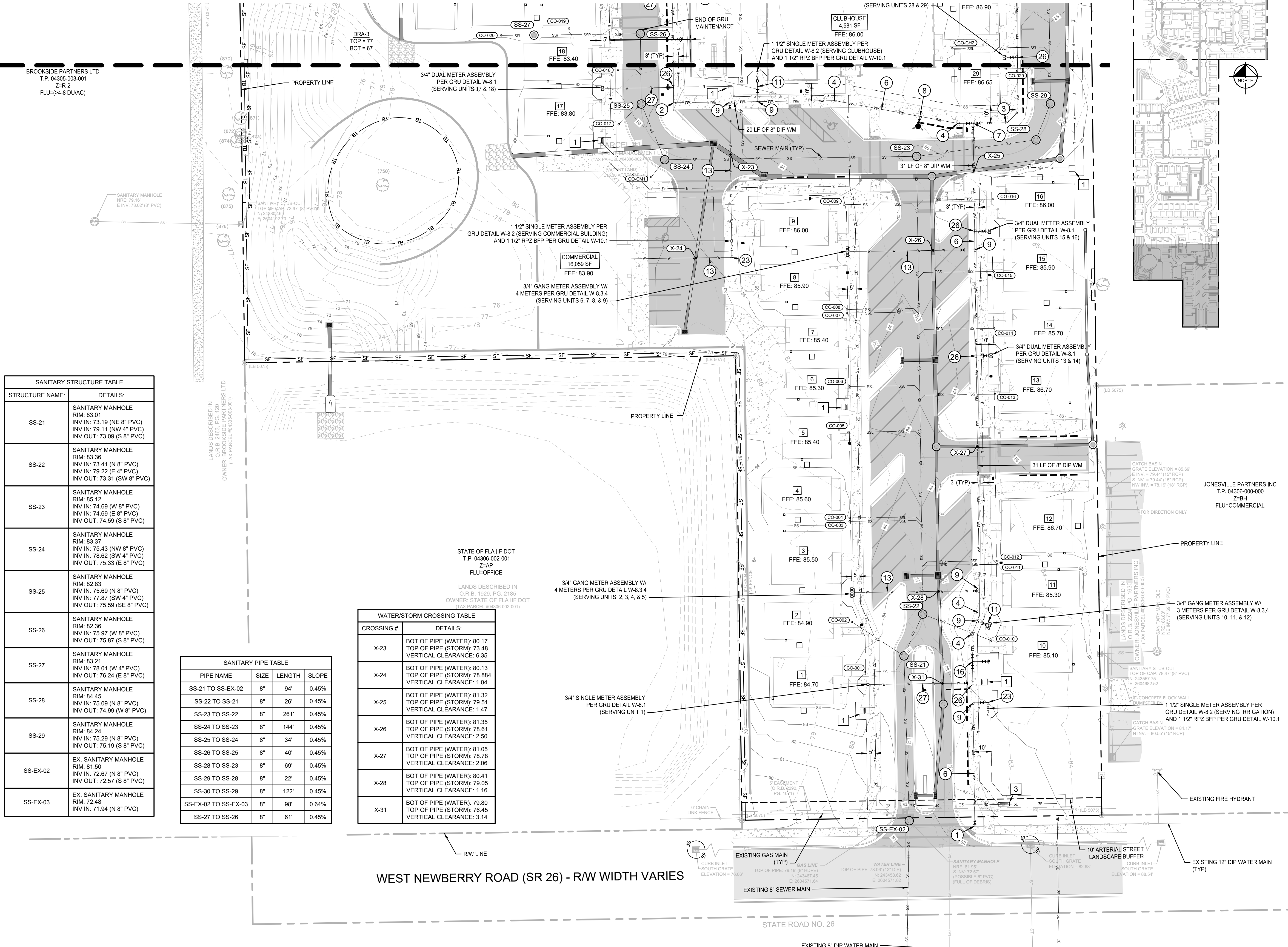
- 1 - 3.5' X 3.5' TRANSFORMER PAD (BY CONTRACTOR) PER CEC STANDARD DETAIL FIGURE 6A-4
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- 4 - PROPOSED POWER POLE
- 5 - 12' WIDE STABILIZED ACCESS ROAD (MIN. LBR 30)

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SANITARY STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
SS-21	SANITARY MANHOLE RIM: 83.01 INV IN: 73.19 (NE 8" PVC) INV IN: 79.11 (NW 4" PVC) INV OUT: 73.09 (S 8" PVC)
SS-22	SANITARY MANHOLE RIM: 83.36 INV IN: 73.41 (N 8" PVC) INV IN: 79.22 (E 4" PVC) INV OUT: 73.31 (SW 8" PVC)
SS-23	SANITARY MANHOLE RIM: 85.12 INV IN: 74.69 (W 8" PVC) INV IN: 74.69 (E 8" PVC) INV OUT: 74.59 (S 8" PVC)
SS-24	SANITARY MANHOLE RIM: 83.37 INV IN: 75.43 (NW 8" PVC) INV IN: 78.62 (SW 4" PVC) INV OUT: 75.33 (E 8" PVC)
SS-25	SANITARY MANHOLE RIM: 82.83 INV IN: 75.69 (N 8" PVC) INV IN: 77.87 (SW 4" PVC) INV OUT: 75.59 (SE 8" PVC)
SS-26	SANITARY MANHOLE RIM: 82.36 INV IN: 75.97 (W 8" PVC) INV OUT: 75.87 (S 8" PVC)
SS-27	SANITARY MANHOLE RIM: 83.21 INV IN: 78.01 (W 4" PVC) INV OUT: 76.24 (E 8" PVC)
SS-28	SANITARY MANHOLE RIM: 84.45 INV IN: 75.09 (N 8" PVC) INV OUT: 74.99 (W 8" PVC)
SS-29	SANITARY MANHOLE RIM: 84.24 INV IN: 75.29 (N 8" PVC) INV OUT: 75.19 (S 8" PVC)
SS-EX-02	EX SANITARY MANHOLE RIM: 81.50 INV IN: 72.67 (N 8" PVC) INV OUT: 72.57 (S 8" PVC)
SS-EX-03	EX SANITARY MANHOLE RIM: 72.48 INV IN: 71.94 (N 8" PVC)

SANITARY PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	
SS-21 TO SS-EX-02	8"	94'	0.45%	
SS-22 TO SS-21	8"	26'	0.45%	
SS-23 TO SS-22	8"	261'	0.45%	
SS-24 TO SS-23	8"	144'	0.45%	
SS-25 TO SS-24	8"	34'	0.45%	
SS-26 TO SS-25	8"	40'	0.45%	
SS-28 TO SS-23	8"	69'	0.45%	
SS-29 TO SS-28	8"	22'	0.45%	
SS-30 TO SS-29	8"	122'	0.45%	
SS-EX-02 TO SS-EX-03	8"	98'	0.64%	
SS-27 TO SS-26	8"	61'	0.45%	

WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS:
X-23	BOT OF PIPE (WATER): 80.17 TOP OF PIPE (STORM): 73.48 VERTICAL CLEARANCE: 6.35
X-24	BOT OF PIPE (WATER): 80.13 TOP OF PIPE (STORM): 78.84 VERTICAL CLEARANCE: 1.04
X-25	BOT OF PIPE (WATER): 81.32 TOP OF PIPE (STORM): 79.51 VERTICAL CLEARANCE: 1.47
X-26	BOT OF PIPE (WATER): 81.35 TOP OF PIPE (STORM): 78.61 VERTICAL CLEARANCE: 2.50
X-27	BOT OF PIPE (WATER): 81.05 TOP OF PIPE (STORM): 78.78 VERTICAL CLEARANCE: 2.06
X-28	BOT OF PIPE (WATER): 80.41 TOP OF PIPE (STORM): 79.05 VERTICAL CLEARANCE: 1.16
X-31	BOT OF PIPE (WATER): 79.80 TOP OF PIPE (STORM): 76.45 VERTICAL CLEARANCE: 3.14

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LICENSED PROFESSIONAL
 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER 66531

KHA PROJECT 142425000
 DATE DECEMBER 2023
 SCALE AS SHOWN
 DESIGNED BY KHA
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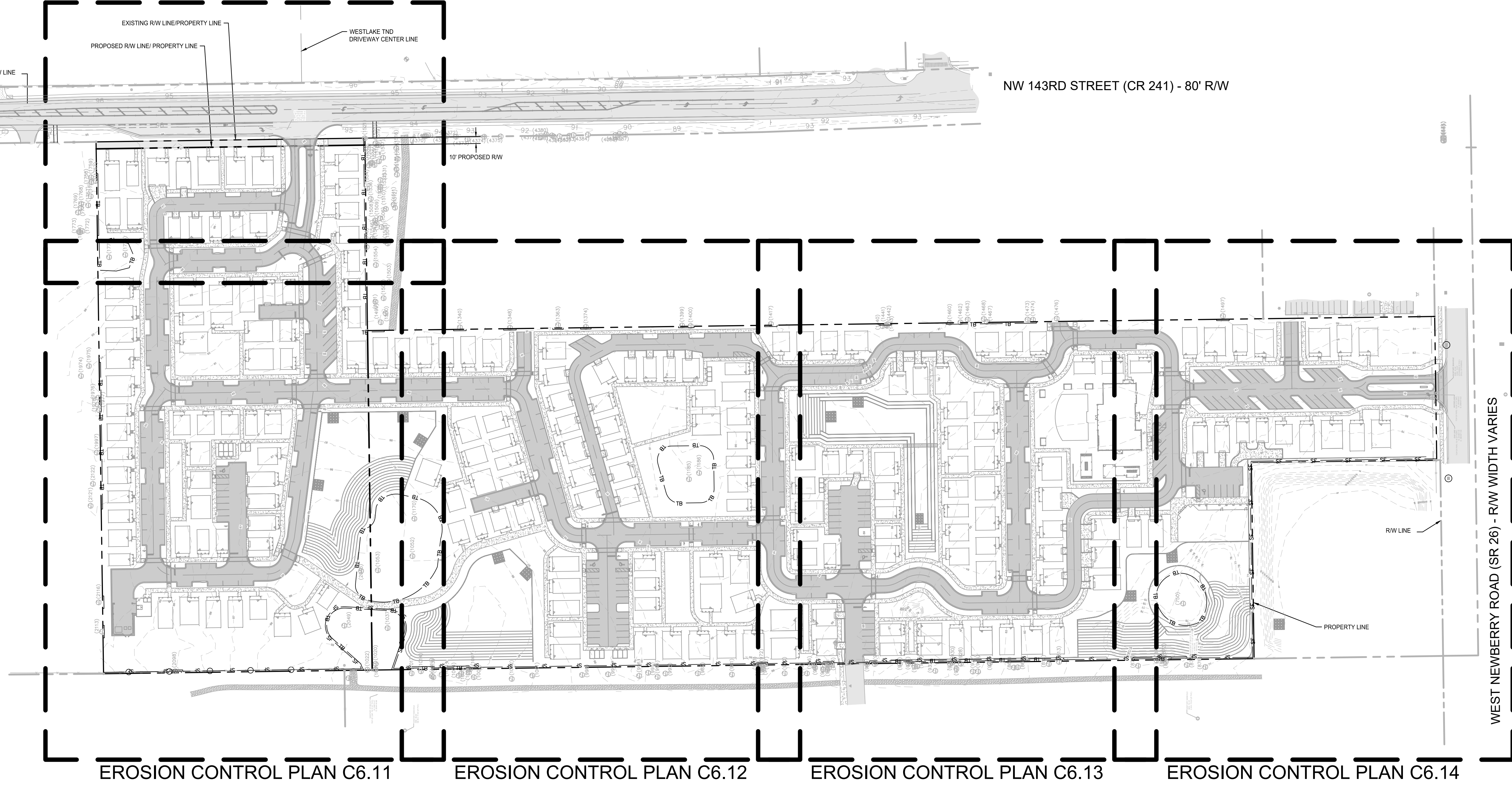
UTILITY PLAN

GAINESVILLE COTTAGES TND
 PREPARED FOR SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C5.14

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EROSION CONTROL PLAN C6.10



EROSION CONTROL PLAN C6.11

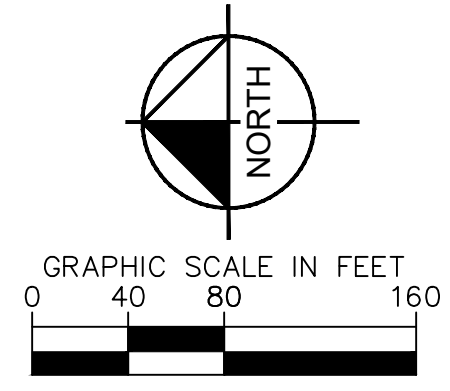
EROSION CONTROL PLAN C6.12

EROSION CONTROL PLAN C6.13

EROSION CONTROL PLAN C6.14

WEST NEWBERRY ROAD (SR 26) - RW WIDTH VARIES

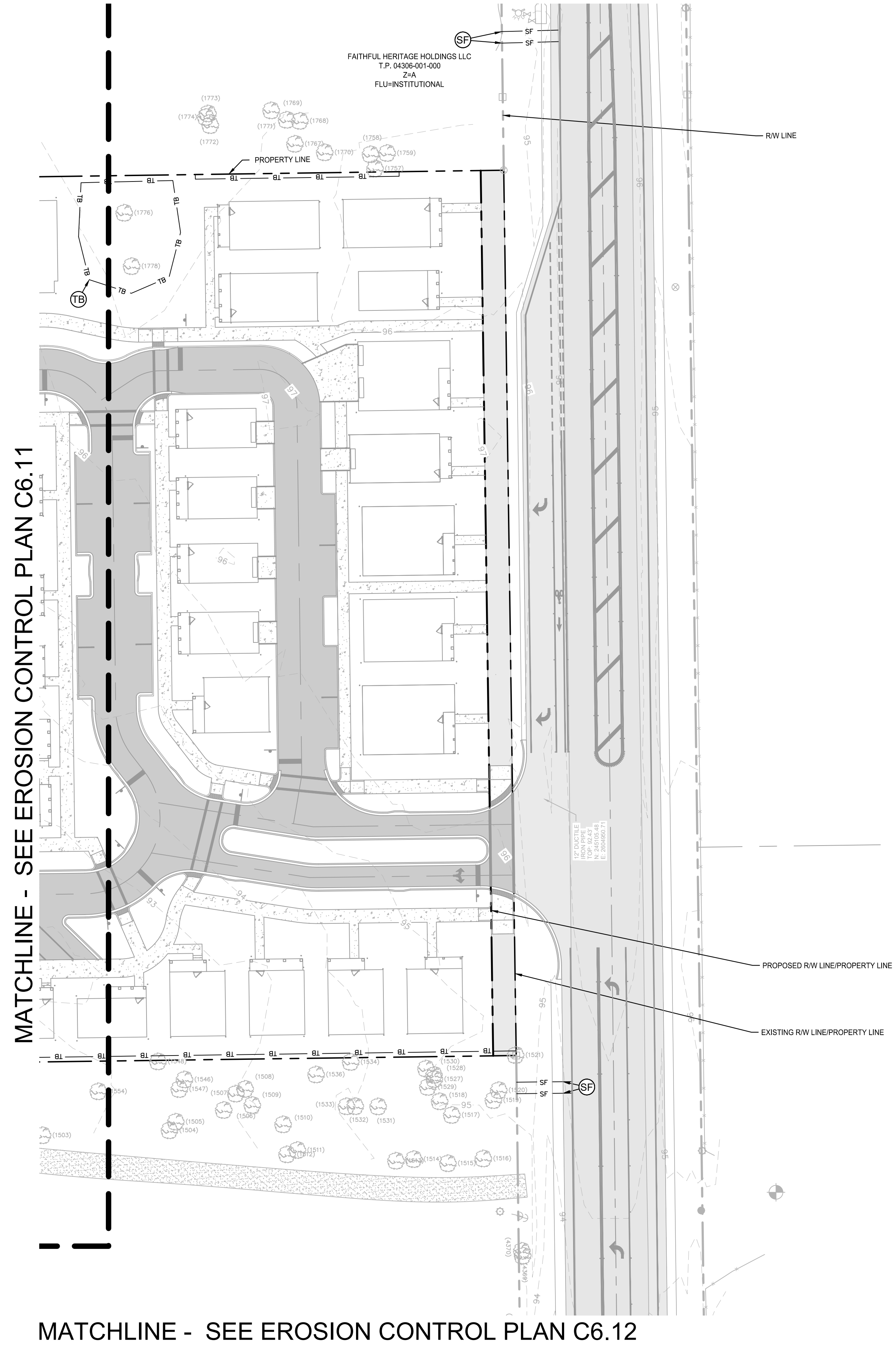
NW 143RD STREET (CR 241) - 80' RW



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MATCHLINE - SEE EROSION CONTROL PLAN C6.12

SITE LEGEND SEE SHEET C6.30 FOR DETAILS

- ⊖ - SILT FENCE
- ⊗ - TREE BARRICADE
- ⊕ - DITCH BARRIER
- Ⓢ - INLET PROTECTION
- Ⓤ - CONSTRUCTION ENTRANCE

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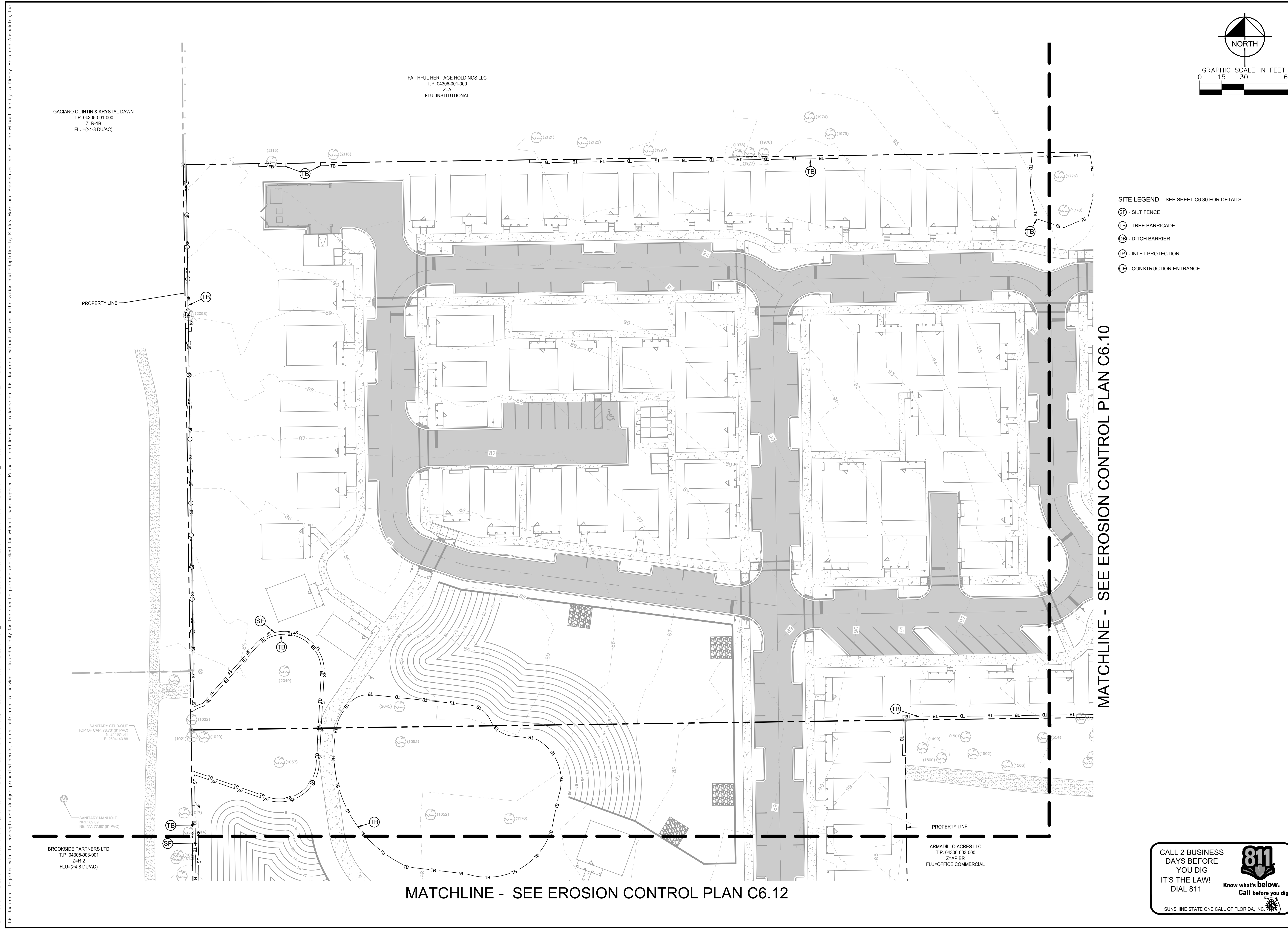
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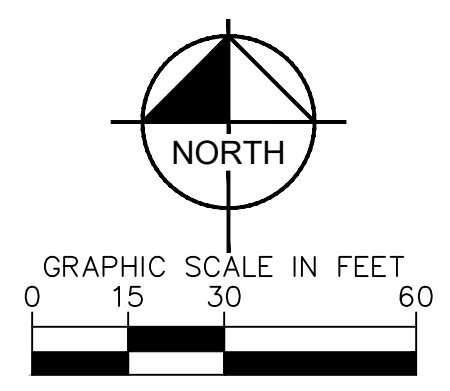


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 FLU=(4-8 DU/AC)

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 T.P. 04306-001-000
 Z=A
 FLU=INSTITUTIONAL

BROOKSIDE PARTNERS LTD
 T.P. 04305-003-001
 Z=RS-2
 FLU=(4-8 DU/AC)

ARMADILLO ACRES LLC
 T.P. 04306-003-000
 Z=AP-BR
 FLU=OFFICE,COMMERCIAL



- SITE LEGEND** SEE SHEET C6.30 FOR DETAILS
- ⊘ - SILT FENCE
 - ⊙ - TREE BARRICADE
 - ⊖ - DITCH BARRIER
 - ⊕ - INLET PROTECTION
 - ⊔ - CONSTRUCTION ENTRANCE

PROPERTY LINE

PROPERTY LINE

MATCHLINE - SEE EROSION CONTROL PLAN C6.10

MATCHLINE - SEE EROSION CONTROL PLAN C6.12

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EROSION CONTROL PLAN

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 ALACHUA COUNTY FLORIDA
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