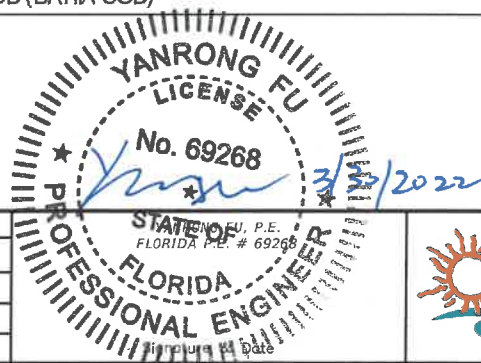


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LINE NO.	FDOT ITEM NO.	DESCRIPTION	EST. QTY	U/M
MOBILIZATION & MAINTENANCE OF TRAFFIC				
1.	101-1	MOBILIZATION	1	LS
2.	102-1	MAINTENANCE OF TRAFFIC	1	LS
SUBTOTAL MOBILIZATION & MAINTENANCE OF TRAFFIC				
ROAD WORK				
3.	104-10-3	SEDIMENT BARRIER		LF
4.	104-18	INLET PROTECTION SYSTEM	96	EA
5.	110-1-1	CLEARING & GRUBBING		AC
6.	110-4	REMOVAL OF EXISTING HEADWALLS AND PIPE/CONCRETE JACKETS		EA
7.	110-4-10	REMOVAL OF EXISTING CONCRETE		SY
8.	110-7-1	MAILBOX, F&I SINGLE		EA
9.	120-1	REGULAR EXCAVATION		CY
10.	120-4	SUBSOIL EXCAVATION		CY
11.	120-6	EMBANKMENT		CY
12.	160-4	TYPE B STABILIZATION (STABILIZED SUBBASE, 12" THICK LBR 60)		SY
13.	MC-1	COLD-IN-PLACE RECYCLE 8" DEPTH	140,644	SY
14.	327-70-6	MILLING EXIST ASPH PAVT, 1" TO 2" AVG DEPTH	140,644	SY
15.	334-MC	TYPE S-I ASPHALT CONCRETE W/TACK COAT, 2"	15,471	TN
16.	334-MC	TYPE S-III ASPHALT CONCRETE W/TACK COAT, 1"	7,736	TN
17.	334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-12.5, SURFACE COURSE W/TACK COAT, 2" (BOTH ROADS)		TN
18.	425-1-201	INLETS, CURB, TYPE 9, <10'		EA
19.	425-1-521	INLETS, DT BOT, TYPE C, <10'		EA
20.	425-3-61	JUNCTION BOXES, J-7, <10'		EA
21.	425-4	INLETS, ADJUST		EA
22.	1-MC	RECONSTRUCT EXISTING GRATE INLET TO JUNCTION BOX		EA
23.	430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD		LF
24.	430-175-130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"S/CD		LF
25.	520-1-10	CONCRETE CURB & GUTTER, TYPE F (INCLUDING CONCRETE FLUMES)	20	LF
26.	520-2-2	CONCRETE CURB & GUTTER, TYPE B		LF
27.	522-1	CONCRETE SIDEWALK, 4" THICK (INCLUDING HANDICAP RAMPS)	800	SY
28.	522-2	CONCRETE DRIVEWAYS, 6" THICK	90	SY
29.	527-2	DETECTABLE WARNINGS		SF
30.	2-MC	EXISTING FENCE TO BE REMOVED AND REINSTALL NEW FENCE		LF
31.	570-1-2	PERFORMANCE TURF, SOD (BAHIA SOD)		SY



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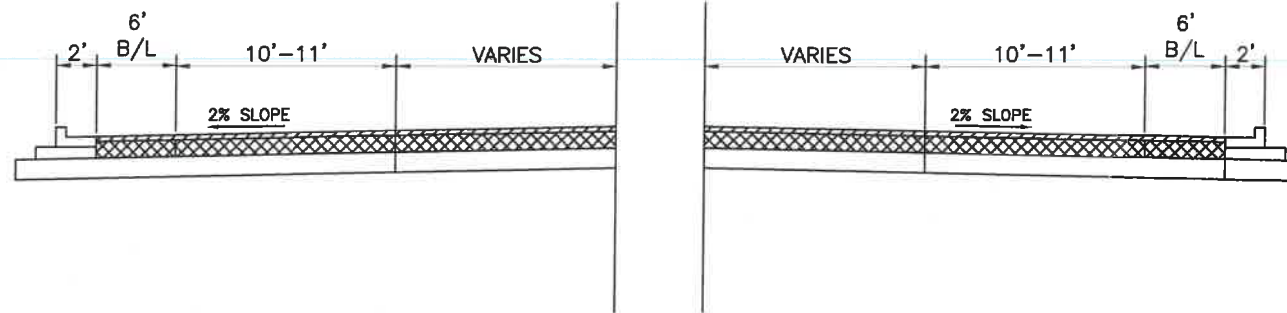
LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
SUMMARY OF PAY ITEMS

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	DESIGNED	DRAWN	CHECKED

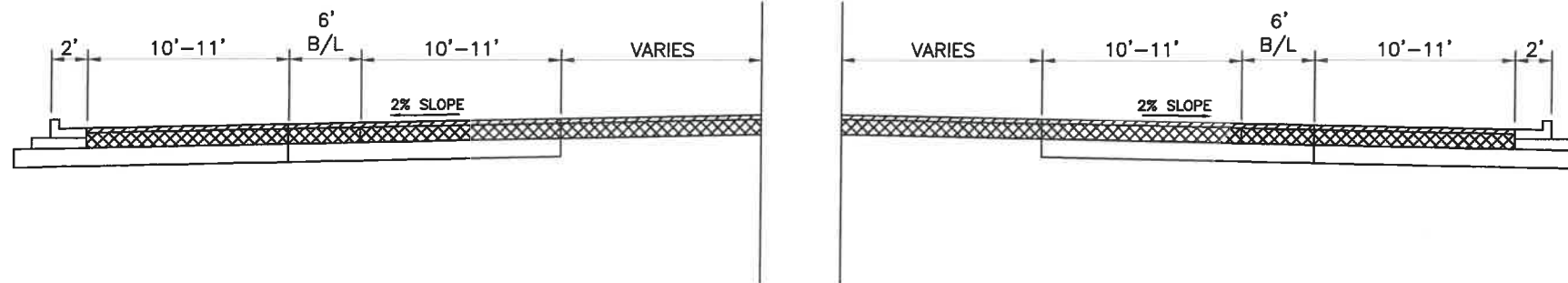
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- * CONTRACTOR TO REPLACE BIKE MARKING AND LINES AT CURRENT LOCATIONS.
- * AS PART OF MOT VARIABLE MESSAGE BOARDS TO BE PLACED 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

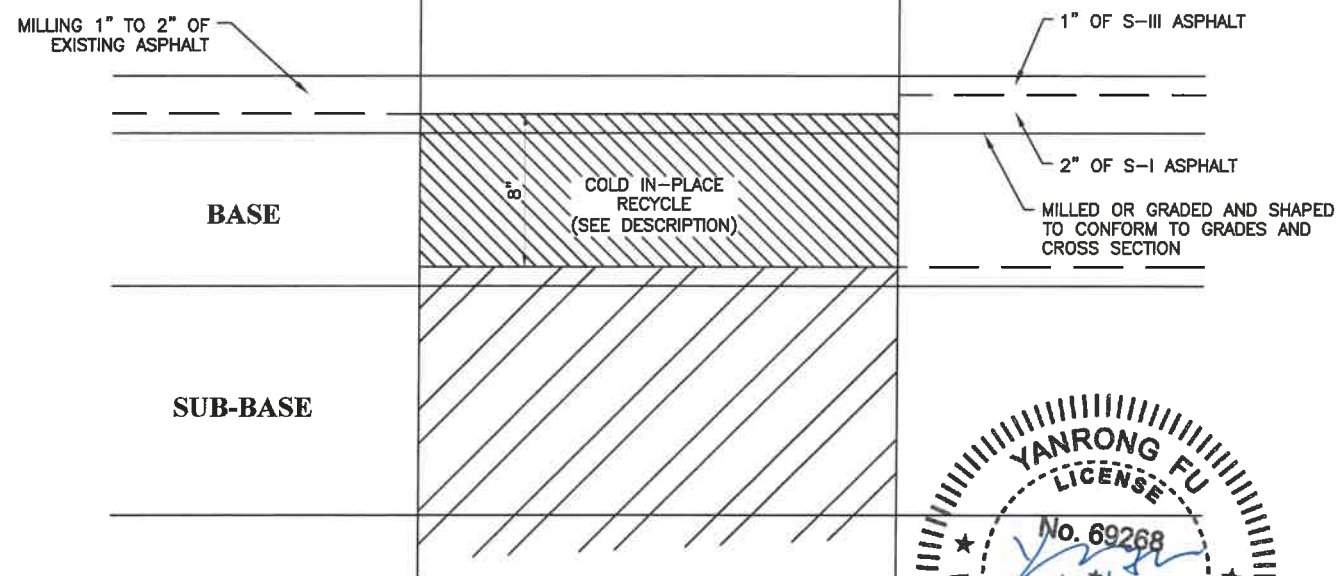
WEST LOCKWOOD RIDGE ROAD SECTION EAST



WEST LOCKWOOD RIDGE ROAD SECTION WITH TURN LANE EAST

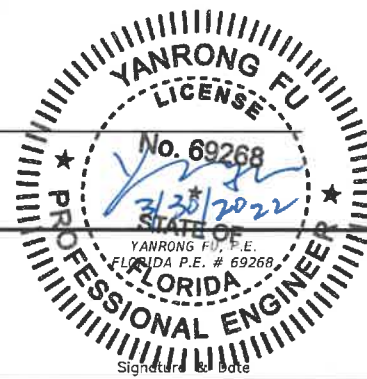


PHASE I PHASE II PHASE III



COLD IN-PLACE RECYCLED BITUMINOUS MATERIAL SPECIFICATIONS

THE WORK SPECIFIED IN THIS TECHNICAL PROVISION CONSISTS OF THE IN-PLACE CONSTRUCTION OF A COLD RECYCLED BITUMINOUS BASE COURSE, USING EITHER RECLAIMED ASPHALT PAVEMENT (RAP) MATERIAL AND/OR RECLAIMED AGGREGATE MATERIAL (RAM), COMBINED WITH VIRGIN AGGREGATES AND/OR BITUMINOUS MATERIAL. IT IS THE INTENT OF THIS CONTRACT TO RECYCLE 100% OF THE EXISTING ASPHALT PAVEMENT AND A PREDETERMINED PORTION OF THE BASE, AS NECESSARY TO ENSURE THAT THE COMPLETED RECYCLED BASE COURSE WILL BE OF A CONSISTENT MATERIAL AND THICKNESS THROUGHOUT, INCLUDING, BUT NOT LIMITED TO, ALL EXISTING ASPHALT PAVEMENT AND BASE ADJACENT TO ALL CONCRETE CURBING, STORM SEWER INLETS, MANHOLES, SANITARY SEWER MANHOLES, AND ALL UTILITY VALVE BOXES. THE EXISTING ASPHALT PAVEMENT AND BASE IN THE ABOVE-DESCRIBED LOCATIONS MUST BE INCLUDED IN THE RECYCLING PROCESS IN ORDER TO CONSTRUCT A BITUMINOUS BASE COURSE WITH A UNIFORM THICKNESS THROUGHOUT 100% OF THE PROPOSED AREA. THE INTENT OF THIS CONTRACT IS TO UTILIZE THE SPECIFIED PROCESS WHICH IS CLEARLY DEFINED WITHIN THIS SPECIFICATION. THEREFORE, FULL DEPTH RECLAMATION OR ANY VARIATION OF FULL DEPTH RECLAMATION WILL NOT BE ACCEPTED.



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**LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
TYPICAL SECTIONS**

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---	---
			SURVEY #	---	DESIGNED	---	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21	
			SCALE	#####	CHECKED	---	---	---

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GENERAL NOTES

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: PHIL CATALANO AND CAN BE REACHED AT (941) 708-7450; EXT. 7613.
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
- ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NORTH AMERICAN VERTICAL DATUM OF 1988", (NAVD '88).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
- ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
- SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
- THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.
NOTE:
THIS INCLUDED MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTOR'S CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
- ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTORY OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.
- ALL SIGNING, STRIPING AND RPM PLACEMENT WITHIN THE COUNTY RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.
- MONUMENTATION - HORIZONTAL CONTROL, BENCHMARKS, ETC. SET BY THE CONSULTANT, SHALL HAVE THEIR COMPANY IDENTIFICATION ON THE TAG, DISK OR CAP. AT THE COMPLETION OF THE PROJECT, SURVEY CONTROL, BENCHMARKS, PROPERTY CORNERS, ETC. LOST DUE TO CONSTRUCTION SHALL BE RESET.

SAFETY

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

CONTROLS/MATERIAL

- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
- STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
- SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
- SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.

- THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
- FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.
- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS, THAT ARE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT. REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.
- THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED UTILITY COMPANY FOR THE ADJUSTMENT OF ANY EXISTING UTILITIES AND STRUCTURES IN ORDER TO MATCH THE PROPOSED ELEVATIONS AND ALIGNMENTS.
- A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

UTILITIES

- ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE COVERS, ETC.
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED VV, VH, AND VVH ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE 24" WATERLINE.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS. ALL EXISTING AND PROPOSED VALVE COVERS, RIMS, ETC. SHALL BE BROUGHT TO FINAL GRADE OF THE PROJECT AREA.
- EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT, ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
- A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/FOUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (SEPARATION SHALL FOLLOW FPL GUIDELINES). ANY COST ASSOCIATED WITH THIS TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY ITEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY COORDINATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES FOR THE RELOCATION AND ADJUSTMENT OF ALL UTILITIES, INCLUDING, ANY EXISTING POWER POLES AND/OR UTILITY CONDUITS WITHIN RIGHT-OF-WAY.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK, KNOWN AS ATMS (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMMODATE ANY POTENTIAL CONFLICTS. AS-BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM FRANK CONETTA, WITH UTILITY RECORDS (941-792-8811 EXT. 5027).

DRAINAGE AND GRADING

- ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
- THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY TRANSPORTATION DEPARTMENT STANDARDS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWM) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ONSITE AT ALL TIMES. STORMWATER FACILITY AREAS AT NORMAL WATER. TOP OF BANK AND ELEVATION (MWL25), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
- TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAY BALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY INFRASTRUCTURE INSPECTIONS RESOURCES DIVISION (708-7450) PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF-SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.

- ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
- TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
- THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
- ROADSIDE UNDERDRAIN SHOWN ON PLAN IS MINIMUM AND EXTENSION SHALL BE REQUIRED AS DETERMINED NECESSARY BY THE ENGINEER OF RECORD AND/OR MCPWD INSPECTION DEPARTMENT DURING THE COURSE OF CONSTRUCTION.
- SUITABLE FILL MATERIAL FROM EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS. UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SOILS ENGINEER IN ACCORDANCE WITH FDOT INDEX 505.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
- REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.

**VERTICAL DATUM
NAVD 88**

EMERGENCY CONTACTS

- | | | | |
|--|---|--|--|
| <p>MANATEE COUNTY PUBLIC WORKS DEPT. INFRASTRUCTURE ENGINEERING SCOTT MAY, P.E. 1022 26TH AVENUE EAST BRADENTON, FL 34208 (941) 723-4430 FAX: (941) 708-7450 EXT. 7650 Crg.Ledbetter@fl.com</p> <p>TECO/PEOPLES GAS CO. DAN SHAWHAN 8261 VOGT COURT SARASOTA FL 34240 (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-8111 dshawhan@tecoenergy.com</p> <p>SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770</p> <p>FRONTIER COMMUNICATIONS DENISE HUTTON 1701 BRINKING BLVD. SARASOTA, FL 34236 (941) 330-9203 denise.hutton@frc.com</p> | <p>FLORIDA POWER & LIGHT DISTRIBUTION CRAIG LEDBETTER 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-CUTAGE Crg.Ledbetter@fl.com</p> <p>FLORIDA POWER & LIGHT TRANSMISSION DALJANA AMADOR 15400 ENDICOR DRIVE JURTER, FL 33478 (941) 466-3327 CELL : (727) 639-7512 chrstopher.ae@fl.com</p> <p>MANATEE COUNTY HEALTH DEPT. HANS C. ROESE 410 8th AVENUE EAST BRADENTON, FL 34208 (941) 748-0747 EXT. 1342 FAX: (941) 750-9364 hans.roese@health.matee.fl.us</p> <p>CROWN CASTLE UTILITY COMPANY LOUIS A. SIMONE 4511 N HIMES AVE #210 TAMPA, FL 33614 (941) 579-8955 lsimone@snccorm.com</p> | <p>SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE STEVE LOFFES, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL 34240 (941) 377-3722 FAX: (941) 373-7860</p> <p>FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM P.O. BOX 1510 TAMPA, FL 33634 CURS LEE (941) 466-3327 CELL : (727) 639-7512 chrstopher.ae@fl.com</p> <p>QUANTER COMMUNICATIONS JAMES CRUZAN 5413 E. STATE ROAD 64 BRADENTON, FL 34208-5535 (941) 748-3816 EXT. 24051 james.cruzan@qcharter.com</p> <p>CENTURY LINK (813)787-3913 rlobcolle@centurylink.com</p> | <p>DEPARTMENT OF ENVIRONMENTAL PROTECTION ED WATSON 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 470-5675 FAX: (813) 470-5883</p> <p>PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1510 WACHULA, FL 33873 DAVID McCLINTOCK KENDELL COCKER (863) 787-4622 (863) 787-4660 david.mcclintock@prco.coop kendell.coker@prco.coop</p> <p>MANATEE COUNTY PUBLIC WORKS DEPT. TRAFFIC ENGINEERING MAURONIA GOPALAKRISHNA, P.E. (941) 748-3500 EXT. 7813 FAX: (941) 748-3571</p> |
|--|---|--|--|

LEGEND

<p>EXISTING</p> <p>BM ⊕ BENCH MARK CM • CONCRETE MONUMENT IP • IRON PIPE IR • IRON ROD HUB ▲ HUB N&D • NAIL & DISK ELEVATION PARCEL ID NO. (with 1234567890 symbol) LOT NO. (with 1234567890 symbol) GW GUY WIRE PP POWER POLE LP LIGHT POLE MB MAIL BOX SN SIGN REF REFLECTOR SPRK SPRINKLER GM GAS MARKER BFP BACKFLOW PREVENTER BO BLOW OFF VALVE FH FIRE HYDRANT WV WATER VALVE ARV AIR RELEASE VALVE WM WATER METER SMH SANITARY SEWER MANHOLE SB#1 SANITARY SEWER CLEAN OUT SO#1 SOIL BORING LOCATION TEL TELEPHONE SERVICE BOX UTILITY BOX UTILITY RISER FLOW DIRECTION GRATE INLET MITERED END SECTION STORM SEWER MANHOLE</p>	<p>BUSH TREE OAK TREE PALM TREE PINE TREE</p> <p>EDGE OF VEGETATION CHAIN LINK FENCE WOOD FENCE BARBED WIRE FENCE FORCE MAIN POTABLE WATER RECLAIMED WATER SANITARY SEWER STORM DRAIN GAS LINE OVERHEAD TV UNDERGROUND TV OVERHEAD ELECTRIC UNDERGROUND ELECTRIC OVERHEAD VERIZON UNDERGROUND VERIZON VERIZON UNDERGROUND UTILITY OVERHEAD UTILITY RAIL ROAD TRACKS EDGE OF CONCRETE EDGE OF ROAD TOE OF SLOPE TOP OF BANK PROPERTY LINE RIGHT OF WAY</p>	<p>ABBREVIATIONS</p> <p>R/W RIGHT OF WAY CONC CONCRETE ASPH ASPHALT DRWH DRIVEWAY SWK SIDEWALK EP EDGE OF PAVEMENT SOC BACK OF CURB EX EXISTING</p>	<p>PROPOSED</p> <p>MAIN SERVICE LINE PROPOSED EASEMENT FIRE HYDRANT VALVE SANITARY SEWER MANHOLE BLOW OFF ASSEMBLY REDUCER TEE HORIZONTAL BEND VERTICAL BEND PLUG MASTER METER ASSEMBLY SERVICE LINE & METER DOUBLE SERVICE</p>
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YANRONG FU, P.E.
FLORIDA P.E. # 69268
Signature & Date

Manatee County Florida
1022 26th Avenue East, Bradenton, FL 34208

**LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
NOTES 1**

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	1/1/22
			SURVEY #	----	DESIGNED	----	1/1/22
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	#####	CHECKED	----	1/1/22

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- 57. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
- 58. STATION LOCATIONS AND OFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM. STATION LOCATION IS CENTER OF STRUCTURE BOTTOM FOR JUNCTION BOXES, CENTER OF RISER FOR CURB INLETS. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. AS SPECIFIED BY DIMENSION "F" AS SHOWN IN FDOT INDEX 430-021 AND 430-022. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
- 59. ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS. ALL DRAINAGE BOX DETAIL SHALL FOLLOW MANATEE COUNTY CURRENT STANDARD 202.1 UNLESS IT IS DESIGNATED IN THE PLAN. ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.
- 60. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.

RESTORATION

- 61. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 62. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 63. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522-001, AND SECTION 522-003 OF THE F.D.O.T. DESIGN STANDARDS LATEST REVISION.
- 64. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- 65. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

- 66. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 67. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
- 68. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 69. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 70. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.
- 71. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTRICT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 72. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 73. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS. REFER TO DETAIL SHEET FOR ALL REFERENCE POINTS.
- 74. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
- 75. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- 76. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 77. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION.
- 78. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
- 79. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
- 80. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.
- 81. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
- 82. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
- 83. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 84. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
- 85. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.
- 86. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
- 87. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).
- 88. ALL EXISTING TREES LOCATED WITHIN CONSTRUCTION LIMITS OR CLEAR ZONE SHALL REMAIN / BE REMOVED AS NOTED.
- 89. THE EXISTING STORM DRAINAGE STRUCTURES SHALL REMAIN / BE REMOVED AS NOTED.
- 90. ALL EXISTING BUILDINGS SHALL REMAIN / BE REMOVED UNLESS OTHERWISE NOTED.
- 91. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS



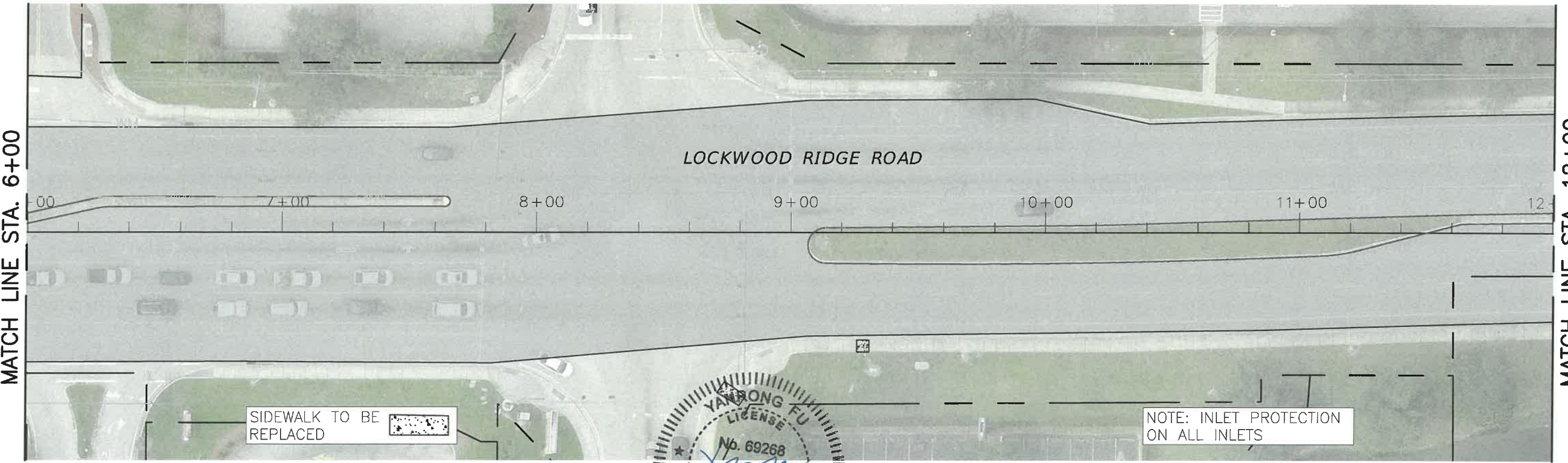
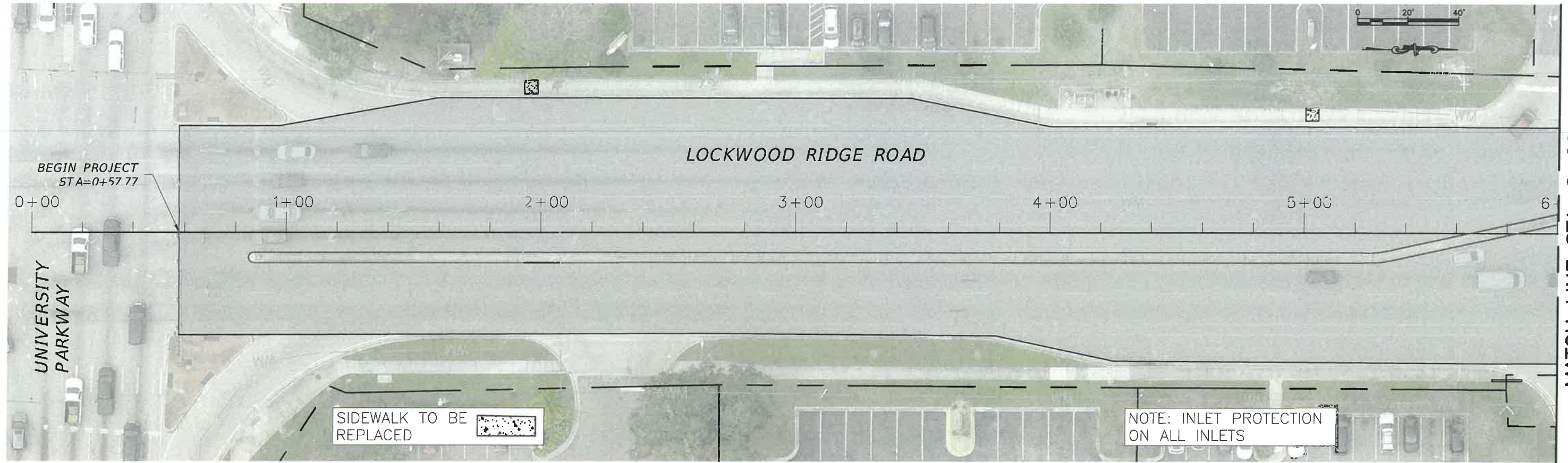
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
NOTES 2

SHEET NO.
05

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	#####	CHECKED	----	___/___/___

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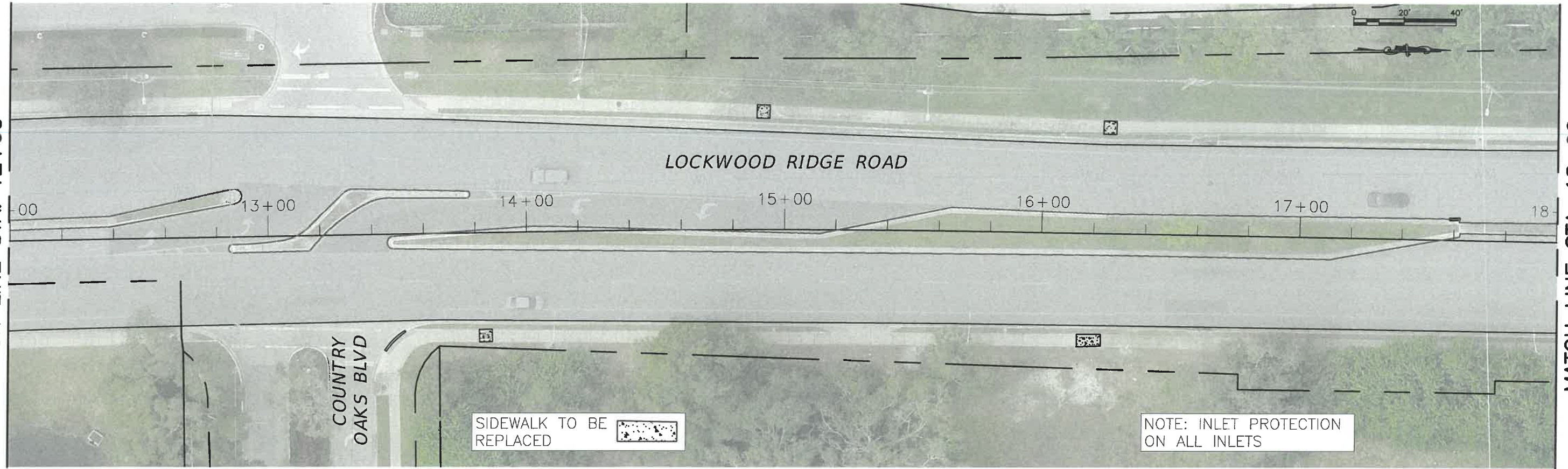
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 0+00-12+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
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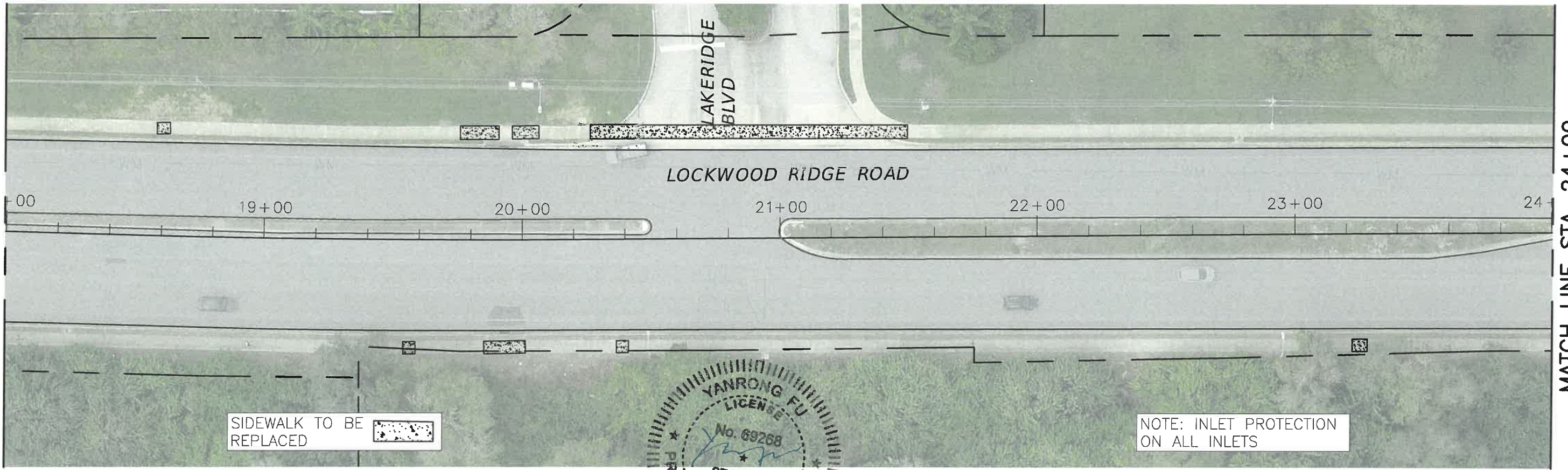
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MATCH LINE STA. 24+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	----	___/___/___

YANRONG FU, P.E.
 FLORIDA P.E. # 69268
 Signature & Date 3/30/22



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

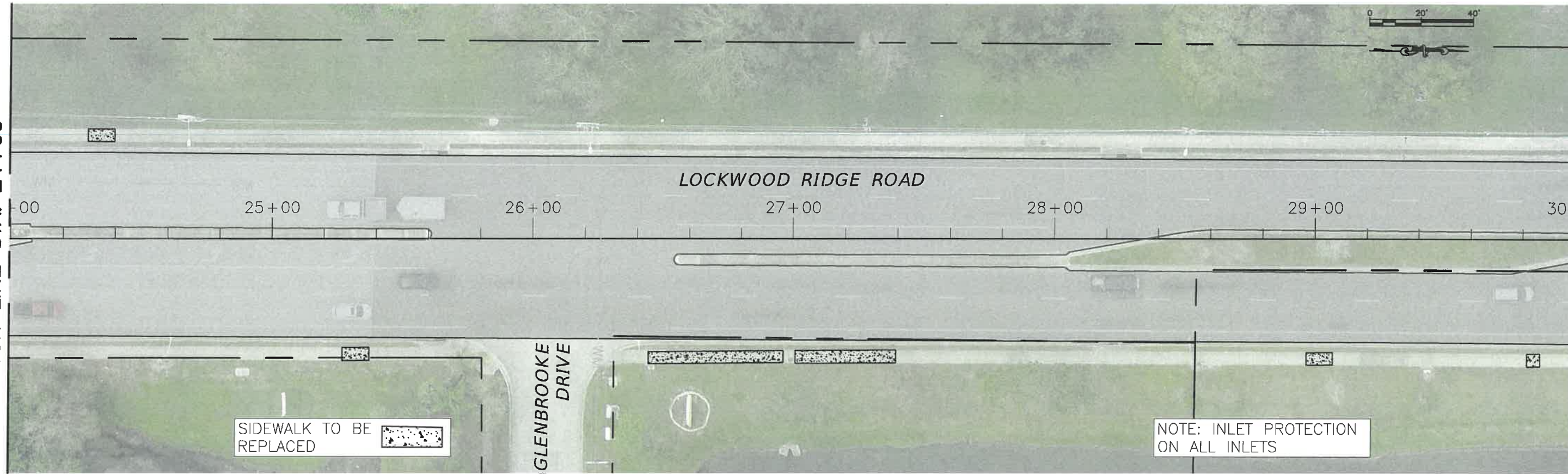
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UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 12+00-24+00

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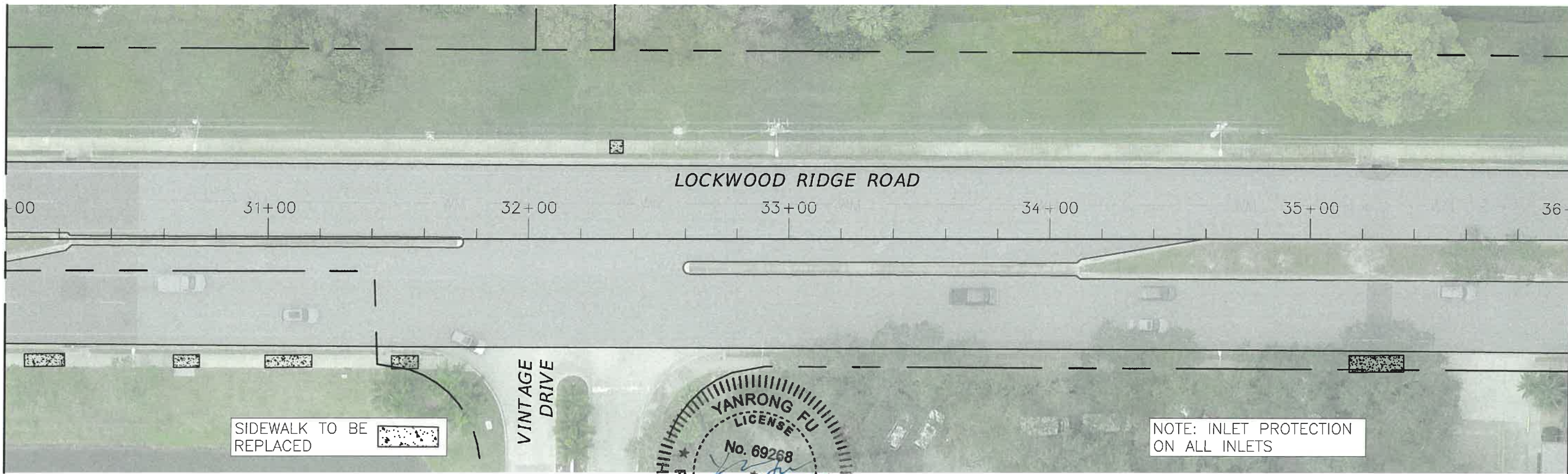
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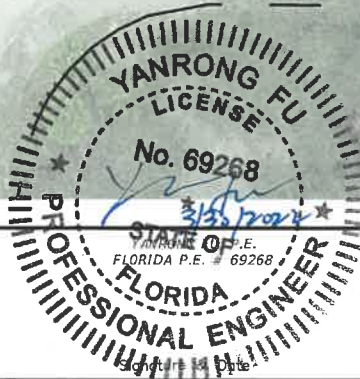


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			SURVEY #	---	DESIGNED	---	---
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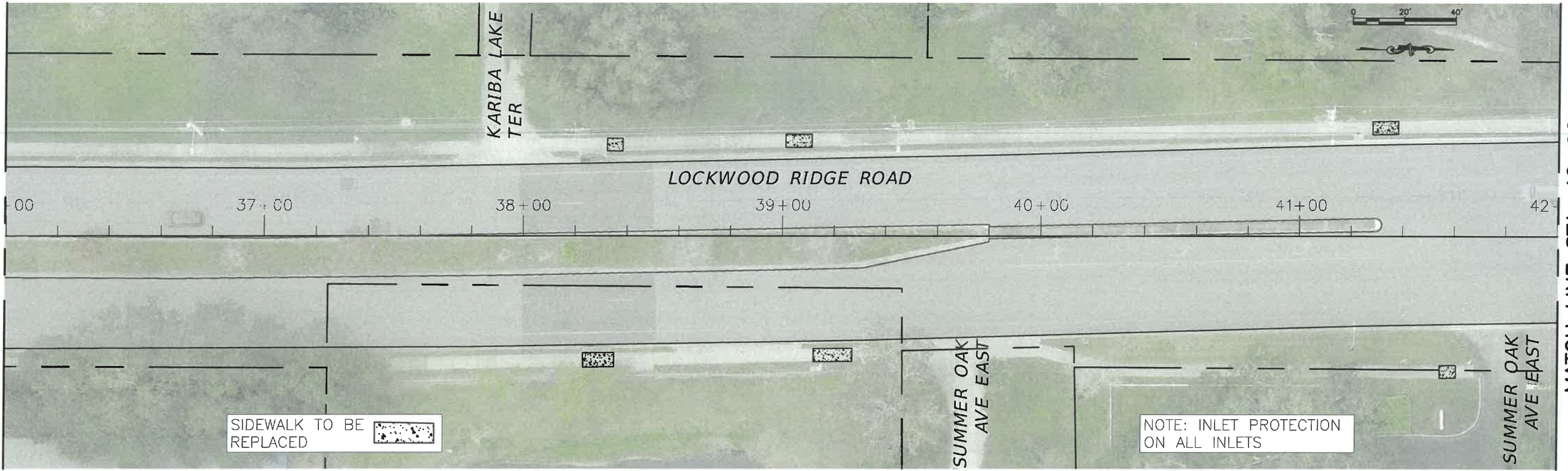

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 24+00-36+00

SHEET NO.
08

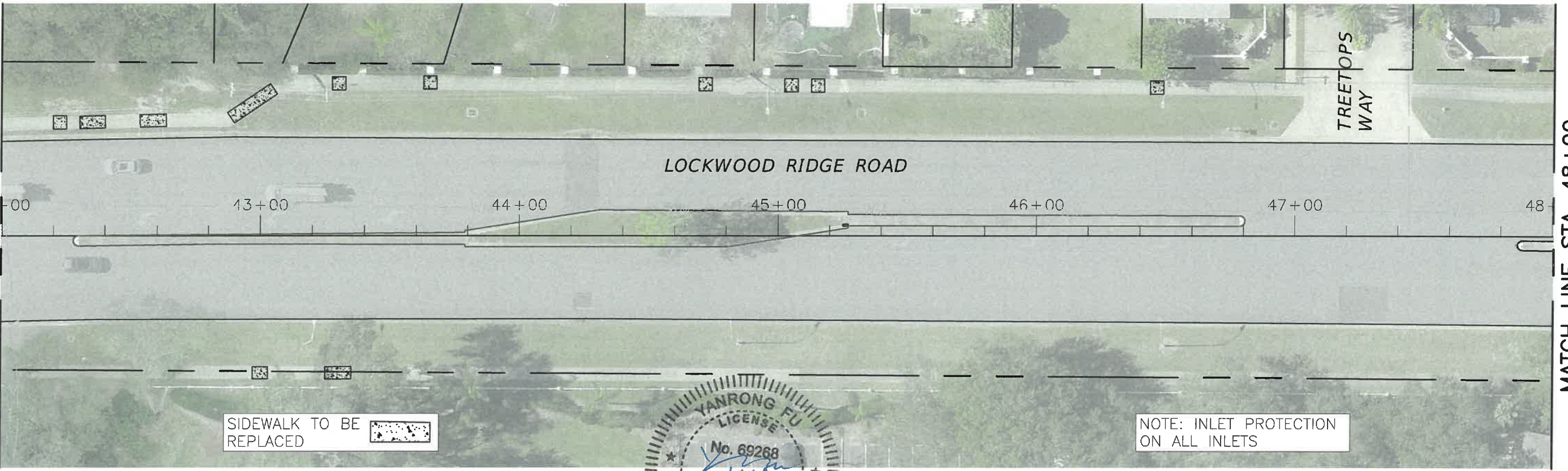
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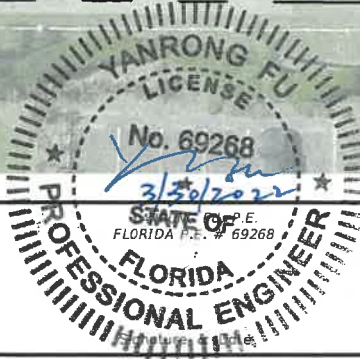


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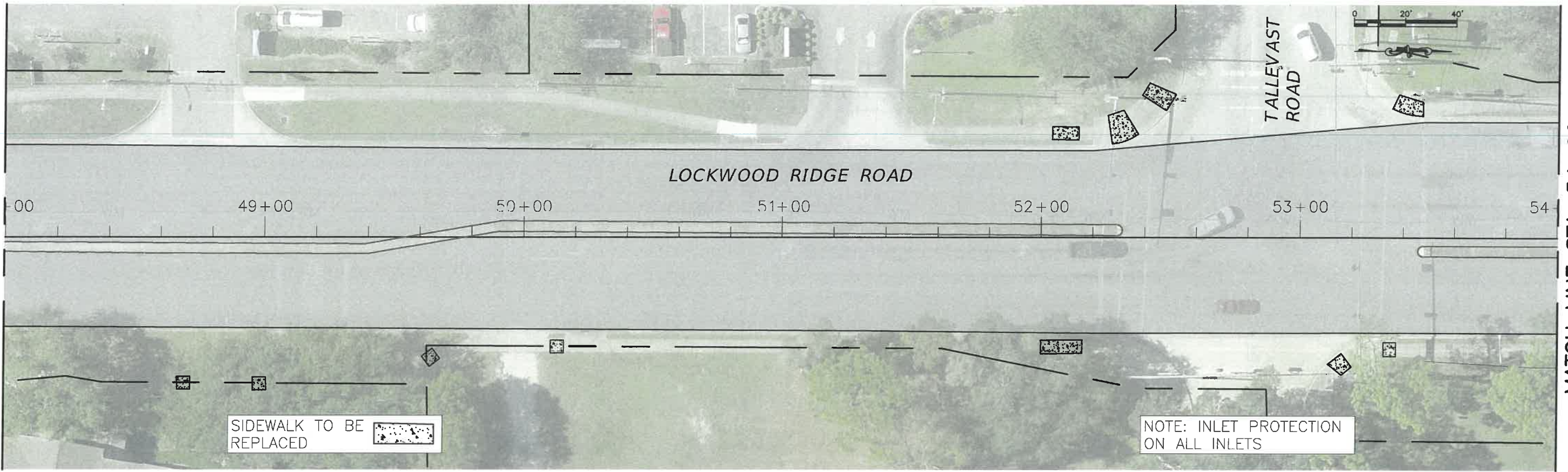
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1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 36+00-48+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
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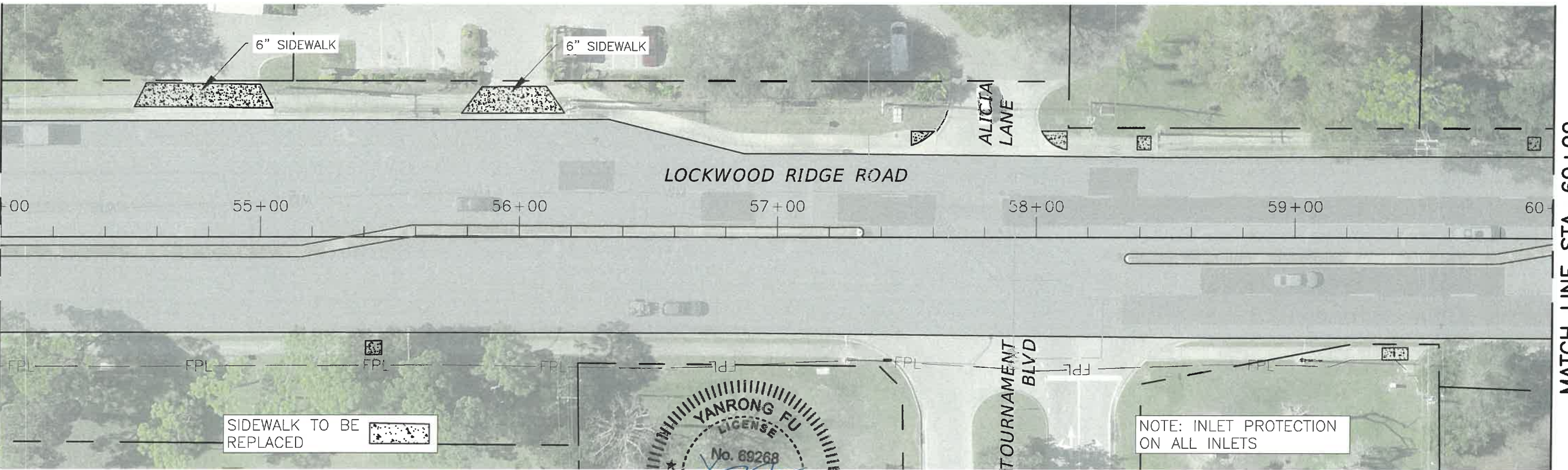
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NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	----	___/___/___



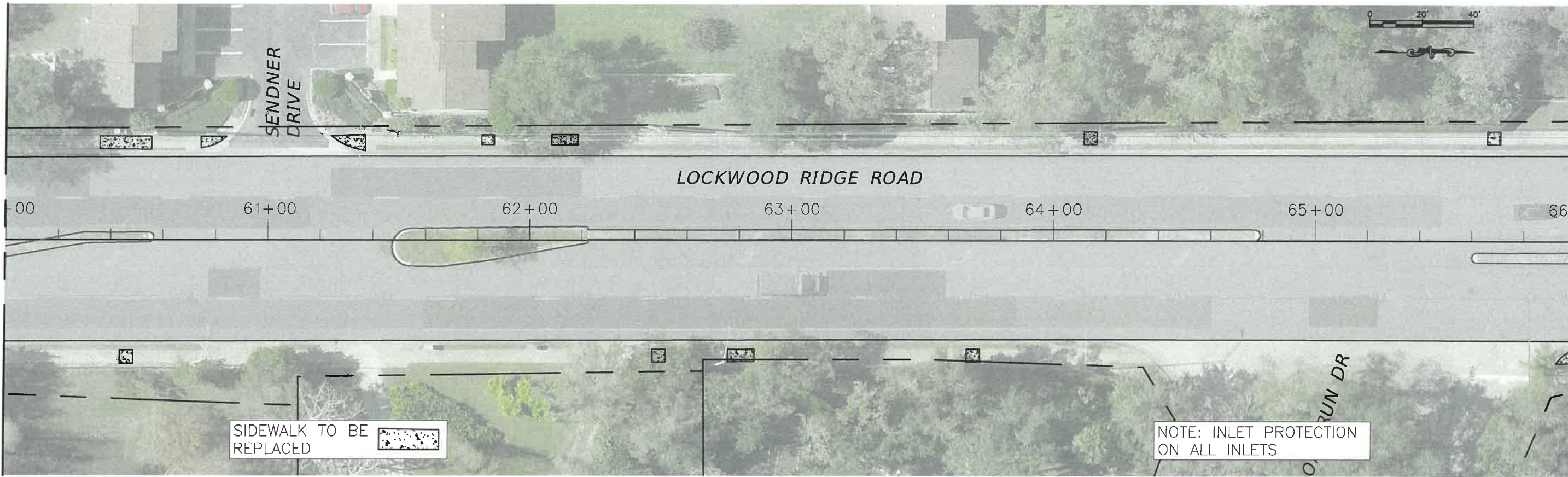
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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 48+00-60+00

SHEET NO.
10

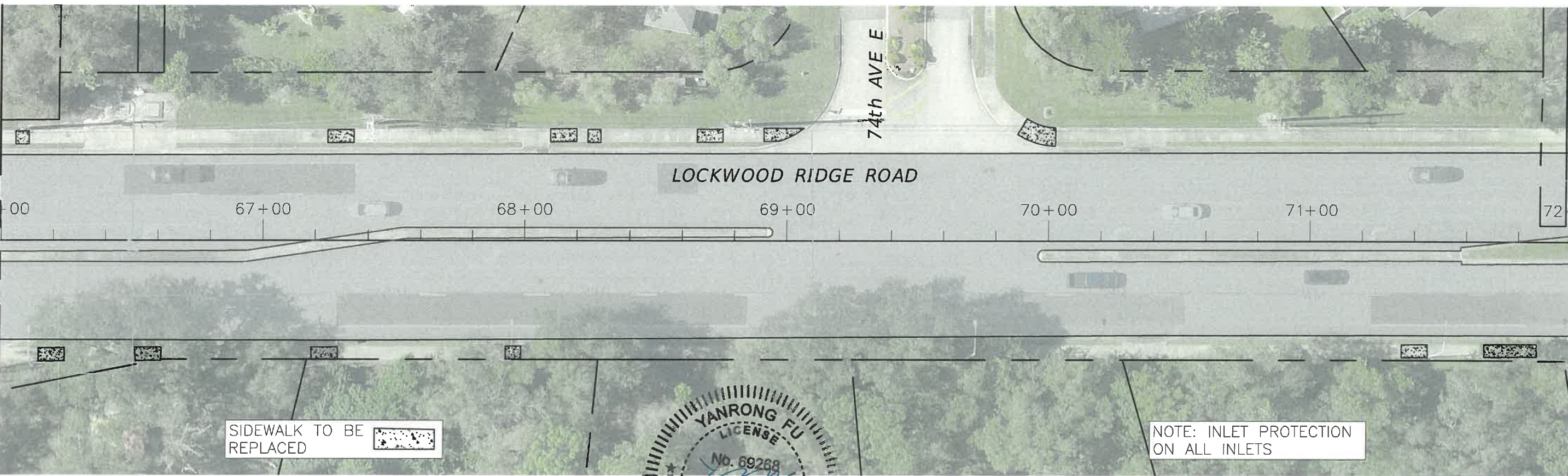
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MATCH LINE STA. 60+00

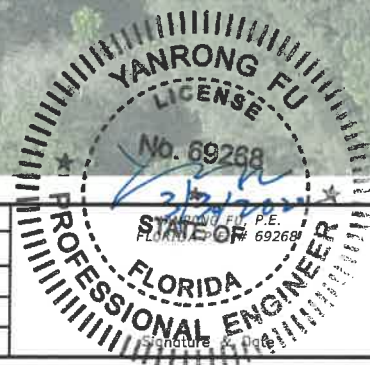


MATCH LINE STA. 66+00

MATCH LINE STA. 66+00



MATCH LINE STA. 72+00



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LOCKWOOD RIDGE ROAD REBASE
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PLAN STA. 60+00-72+00

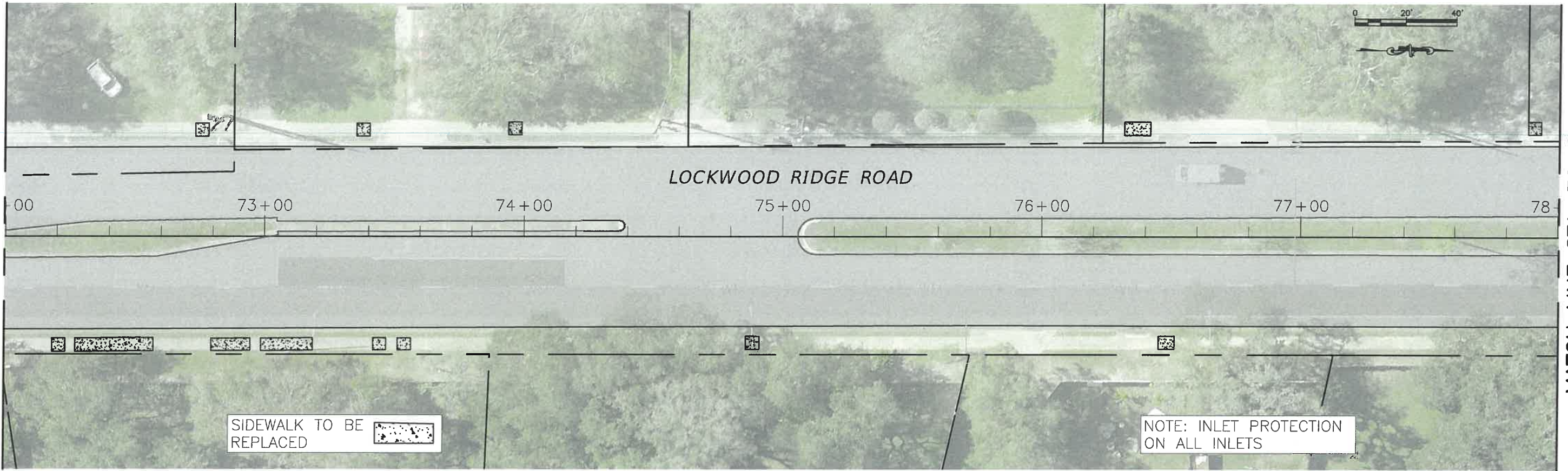
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			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
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SHEET NO.

11

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MATCH LINE STA. 72+00



MATCH LINE STA. 78+00

MATCH LINE STA. 78+00



MATCH LINE STA. 84+00



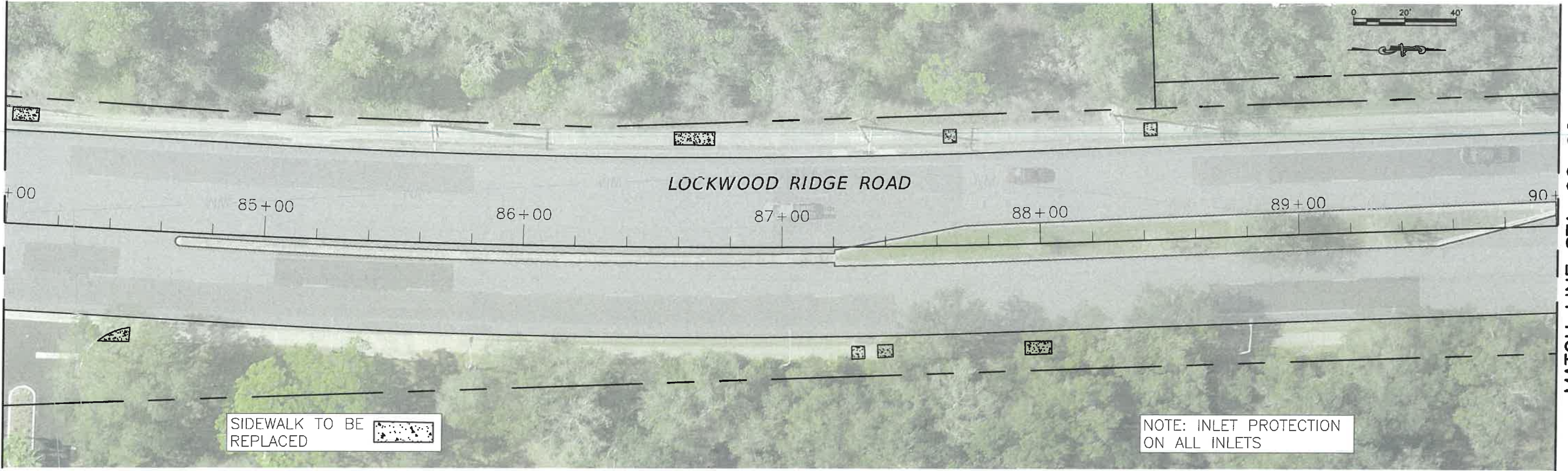
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LOCKWOOD RIDGE ROAD REBASE
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PLAN STA. 72+00-84+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

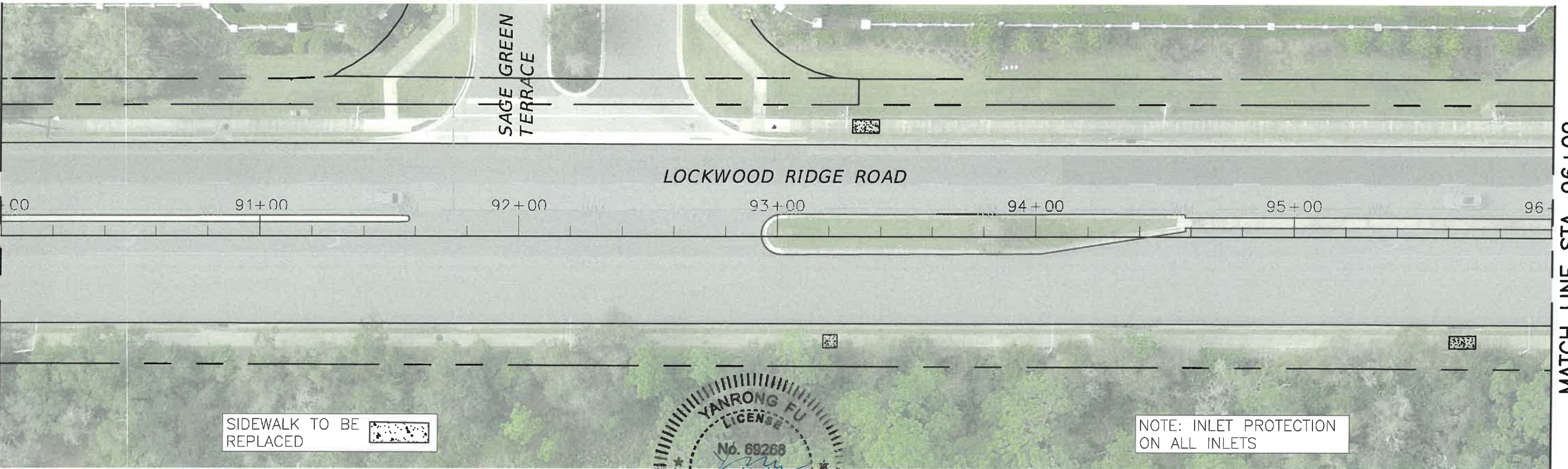
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MATCH LINE STA. 84+00



MATCH LINE STA. 90+00

MATCH LINE STA. 90+00



MATCH LINE STA. 96+00



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LOCKWOOD RIDGE ROAD REBASE
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PLAN STA. 84+00-96+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	----	___/___/___

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MATCH LINE STA. 96+00

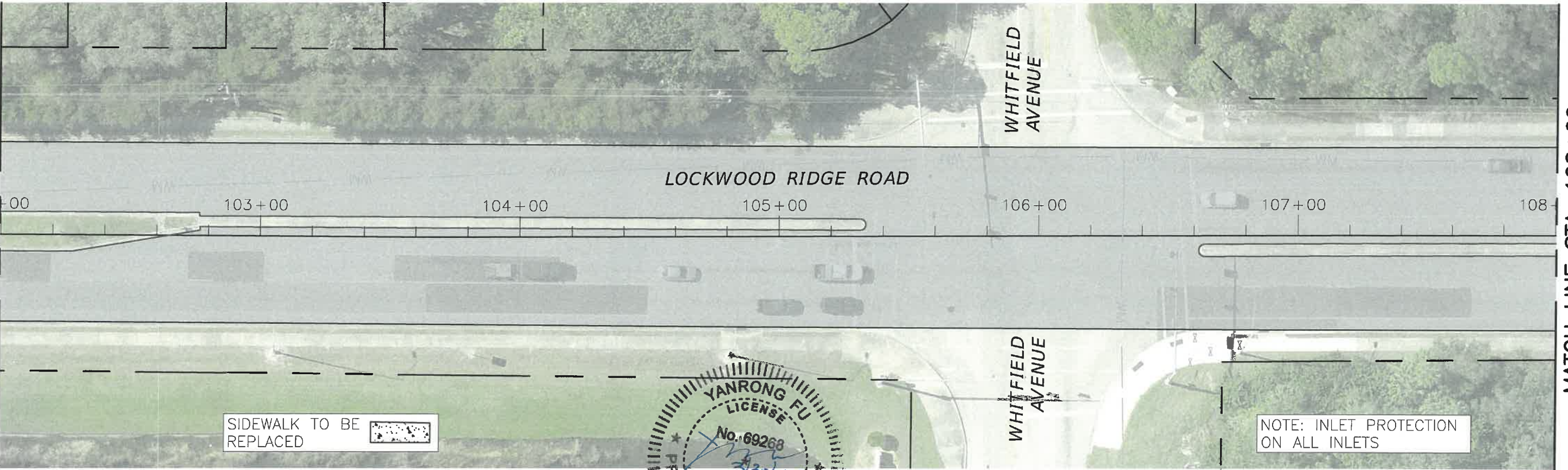


MATCH LINE STA. 102+00

SIDEWALK TO BE REPLACED

NOTE: INLET PROTECTION ON ALL INLETS

MATCH LINE STA. 102+00



MATCH LINE STA. 108+00

SIDEWALK TO BE REPLACED

NOTE: INLET PROTECTION ON ALL INLETS

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 No. 69268
 2/30/2022
 STATE OF
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 PROFESSIONAL ENGINEER
 YANRONG FU, P.E.
 FLORIDA P.E. # 69268
 Signature & Date



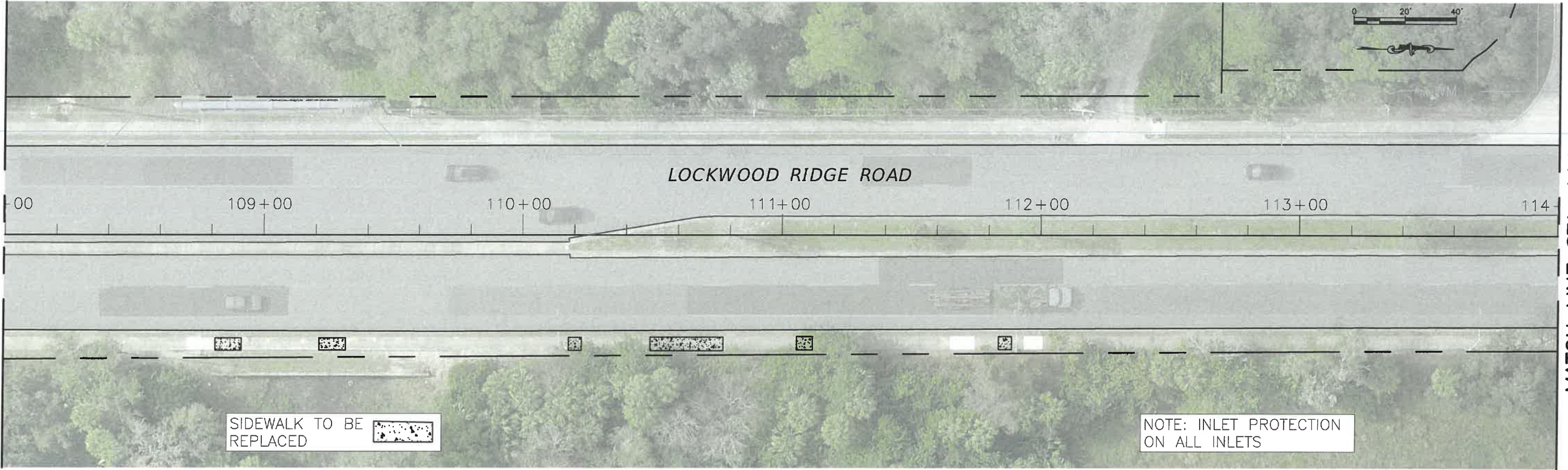
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PLAN STA. 96+00-108+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
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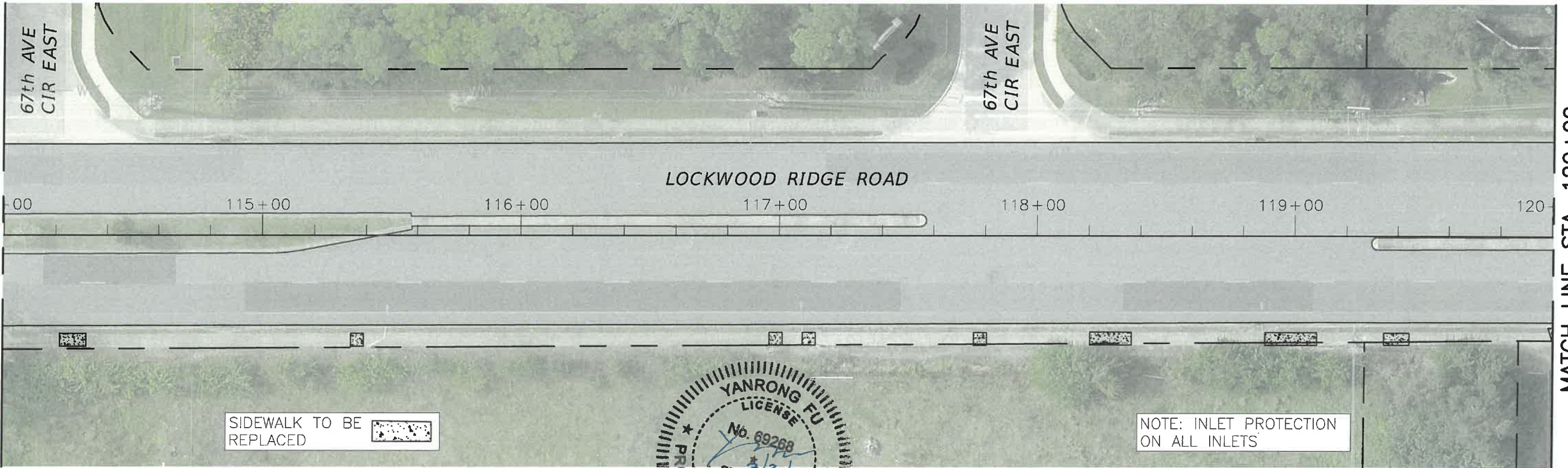
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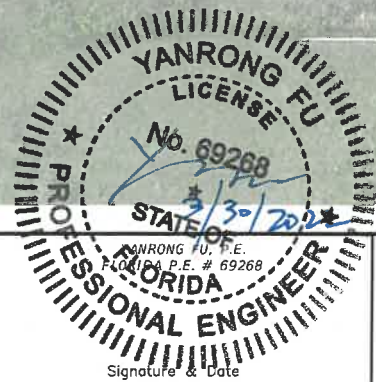


MATCH LINE STA. 114+00

MATCH LINE STA. 114+00



MATCH LINE STA. 120+00



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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 108+00-120+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	----
			SURVEY #	----	DESIGNED	----	----
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MATCH LINE STA. 120+00

MATCH LINE STA. 126+00




MATCH LINE STA. 126+00

MATCH LINE STA. 132+00



NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---




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PLAN STA. 120+00-132+00

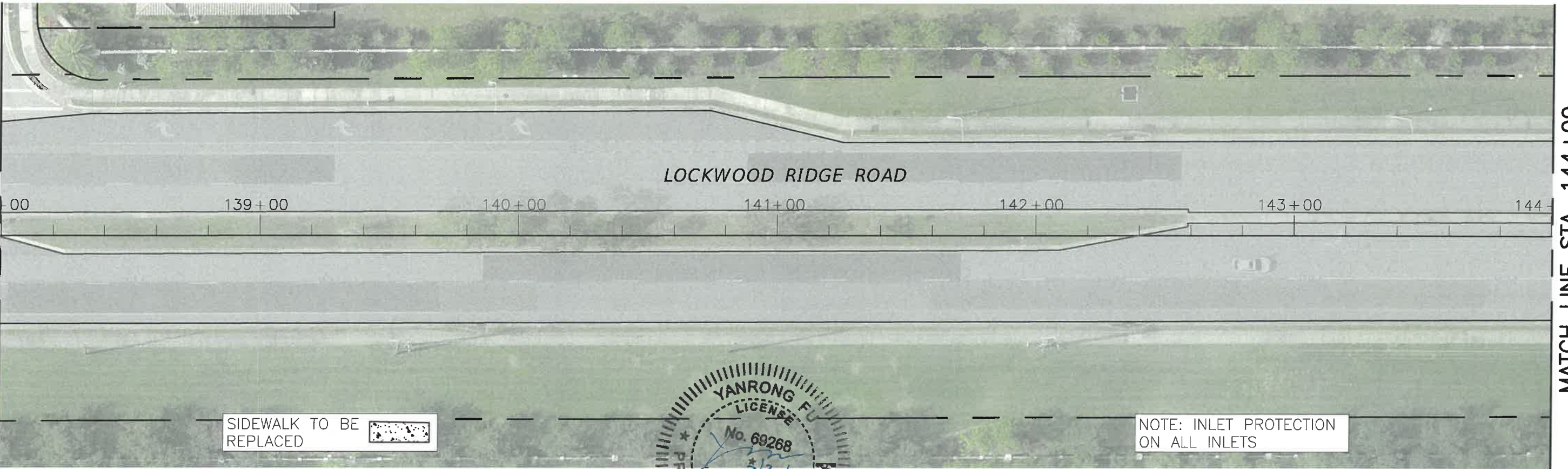
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MATCH LINE STA. 132+00



MATCH LINE STA. 138+00


MATCH LINE STA. 138+00



MATCH LINE STA. 144+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
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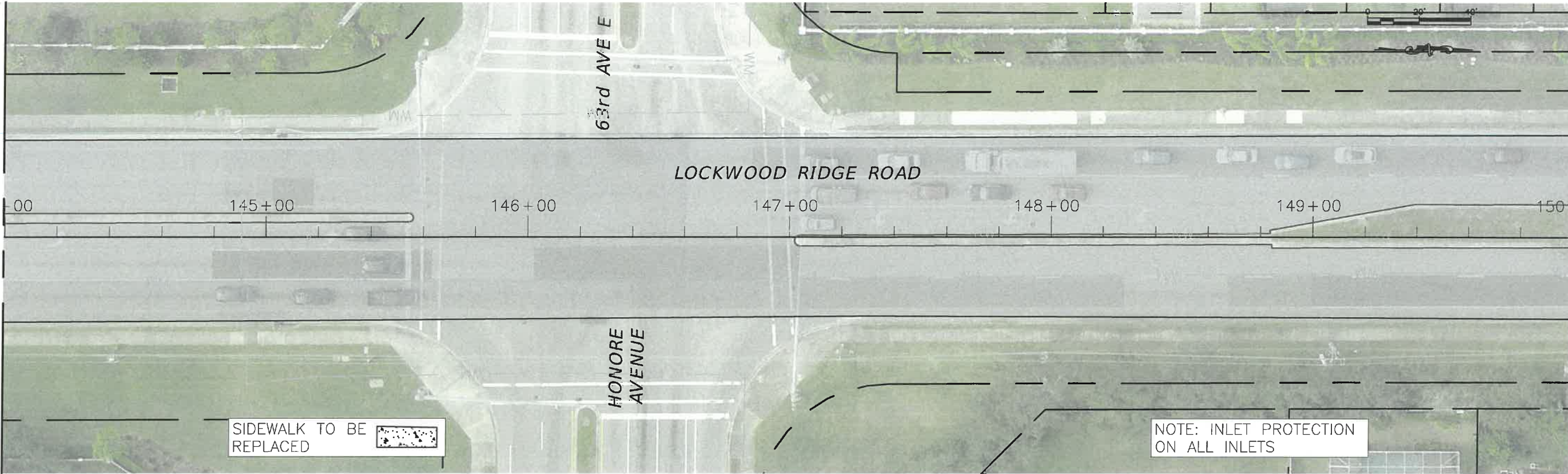
LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 132+00-144+00

SHEET NO.
17

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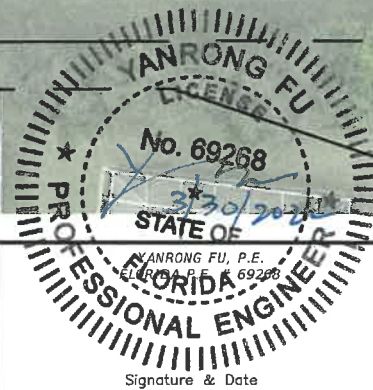
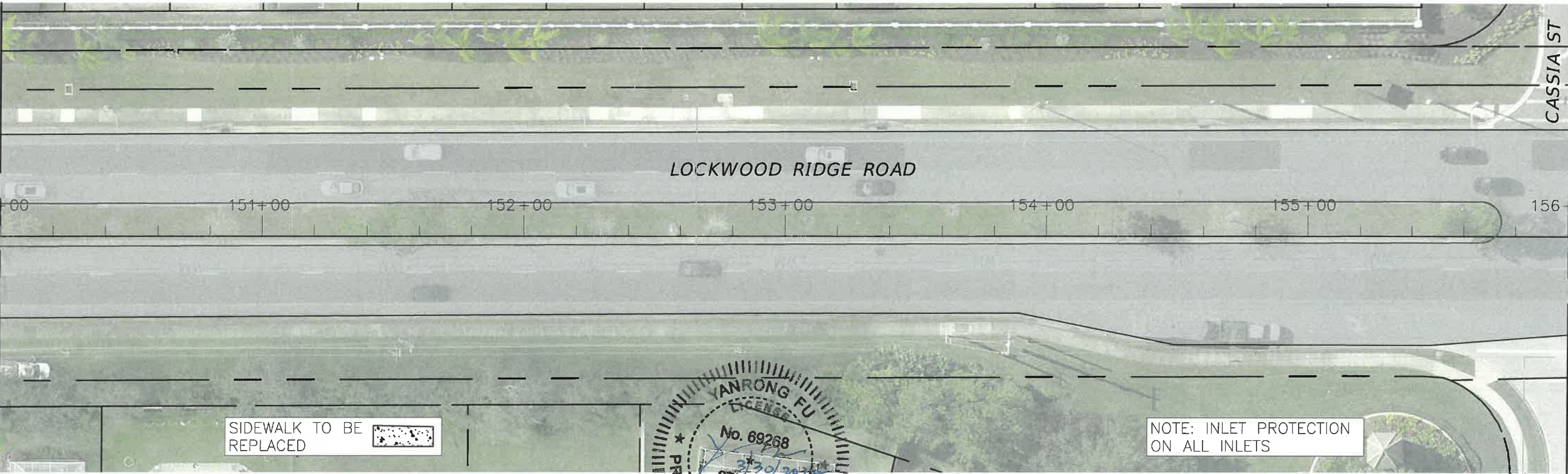
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MATCH LINE STA. 150+00



MATCH LINE STA. 150+00

MATCH LINE STA. 156+00



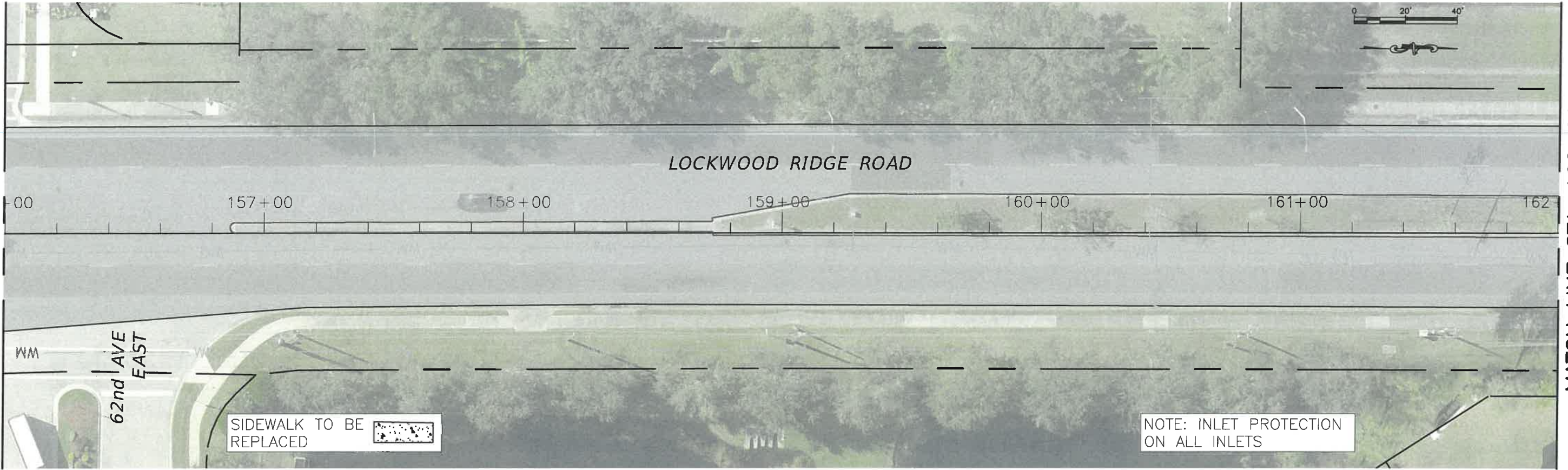
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UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 144+00-156+00

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MATCH LINE STA. 156+00



MATCH LINE STA. 162+00

MATCH LINE STA. 162+00



MATCH LINE STA. 168+00



Signature & Date



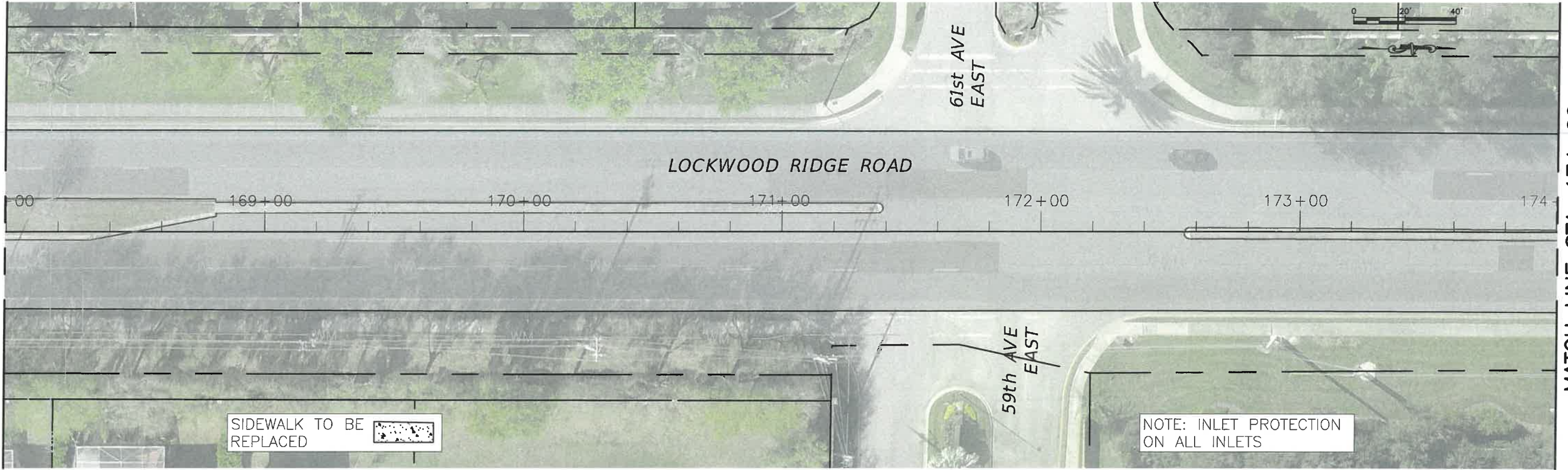
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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 156+00-168+00

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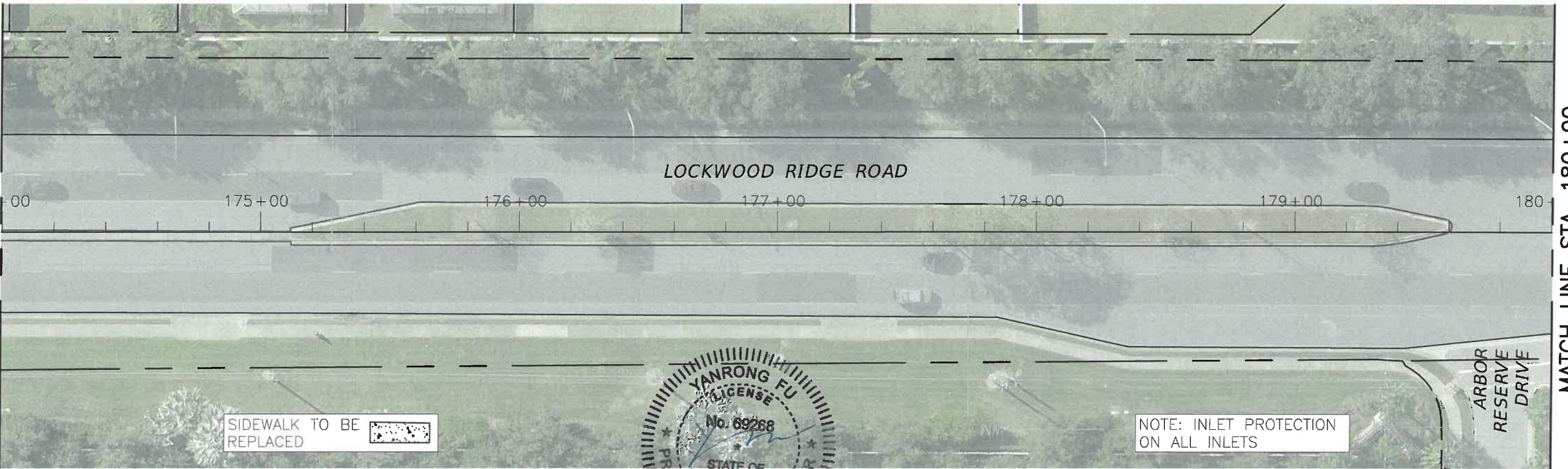
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MATCH LINE STA. 168+00



MATCH LINE STA. 174+00

MATCH LINE STA. 174+00



MATCH LINE STA. 180+00



Signature & Date



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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 168+00-190+00

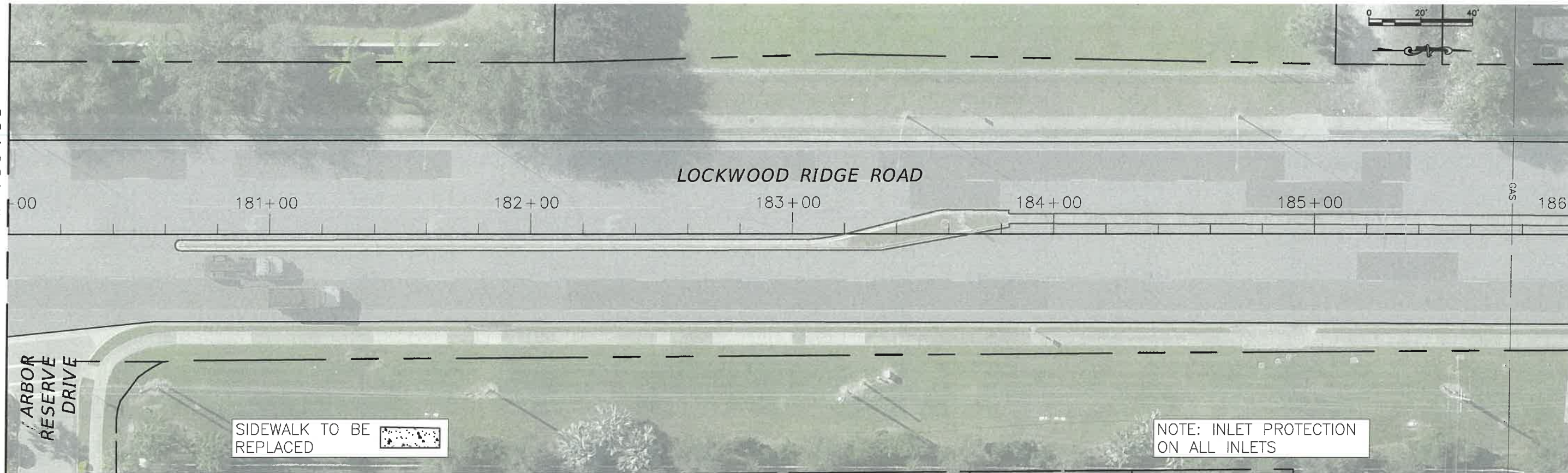
SHEET NO.
20

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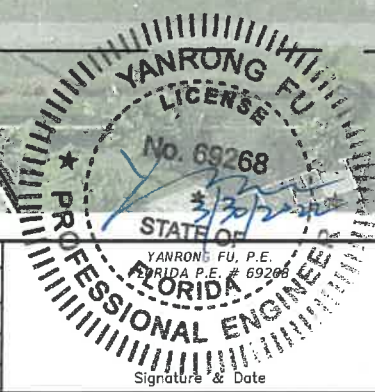
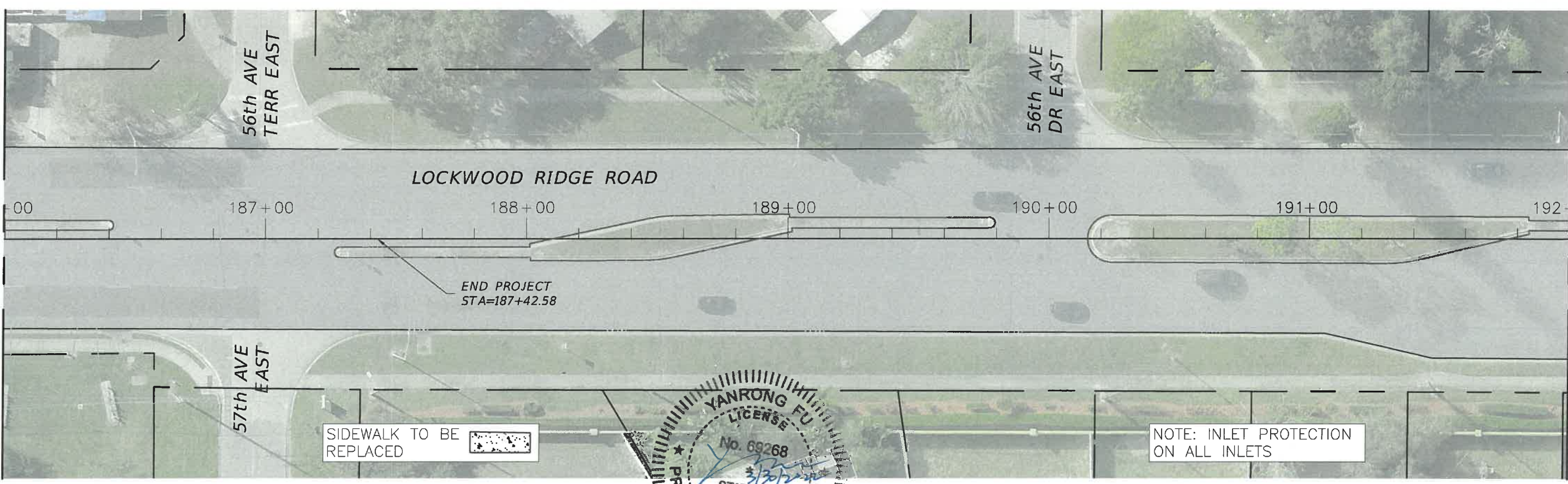
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MATCH LINE STA. 186+00



MATCH LINE STA. 186+00

MATCH LINE STA. 192+00



NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
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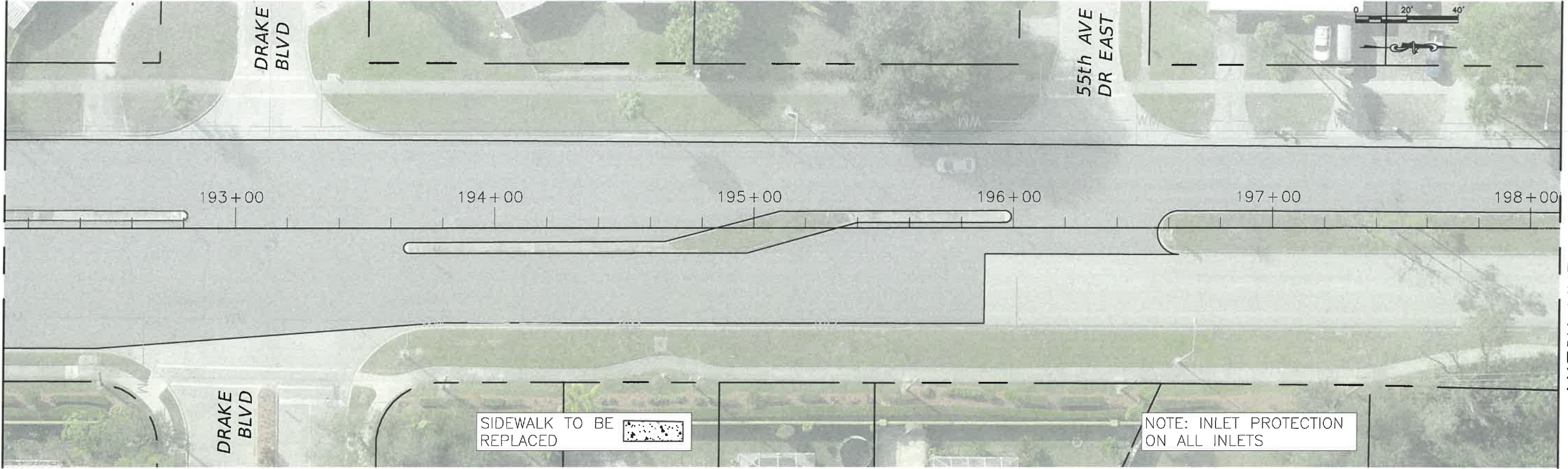
LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 180+00-192+00

SHEET NO.
21

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MATCH LINE STA. 192+00

MATCH LINE STA. 198+00



MATCH LINE STA. 198+00

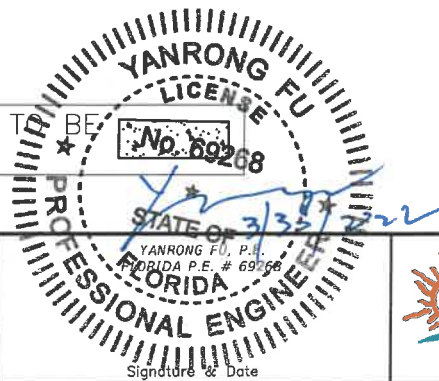


SIDEWALK TO BE REPLACED

NOTE: INLET PROTECTION ON ALL INLETS

SIDEWALK TO BE REPLACED

NOTE: INLET PROTECTION ON ALL INLETS



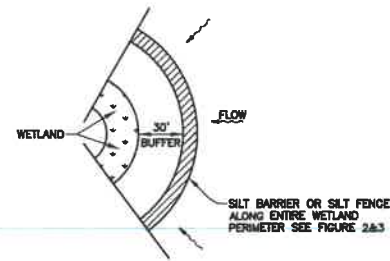
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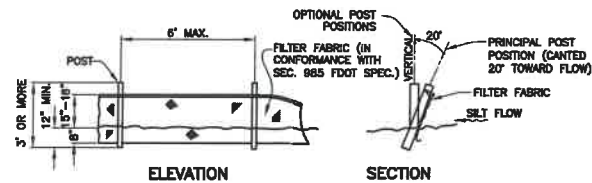
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UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 192+00-200+00

SHEET NO.
22

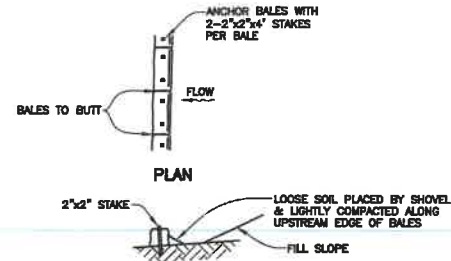


WETLAND BUFFER
FIGURE 1

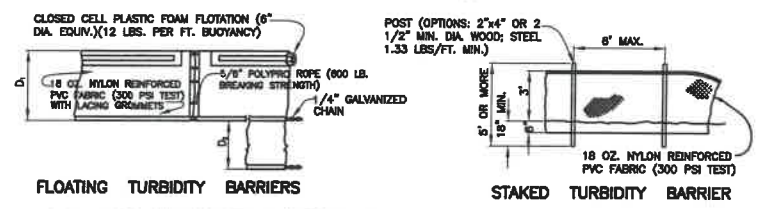


TYPICAL SILT FENCE
FIGURE 2

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (L.F.).



TYPICAL BALE SILT BARRIER
FIGURE 3

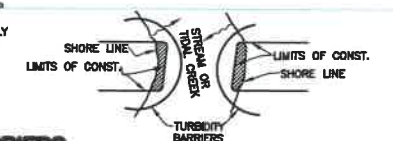


FLOATING TURBIDITY BARRIERS

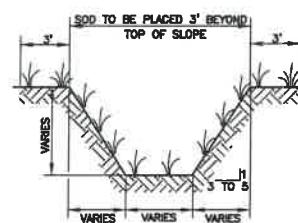
STAKED TURBIDITY BARRIER

D₅₀ = 5" STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D₅₀ = 5" STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

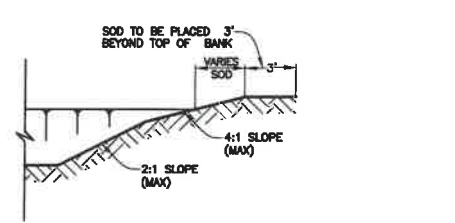
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



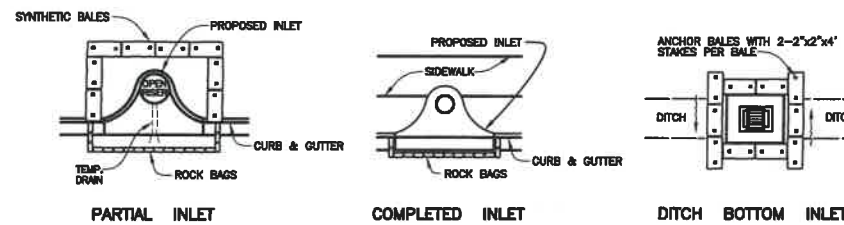
TURBIDITY BARRIERS
FIGURE 4



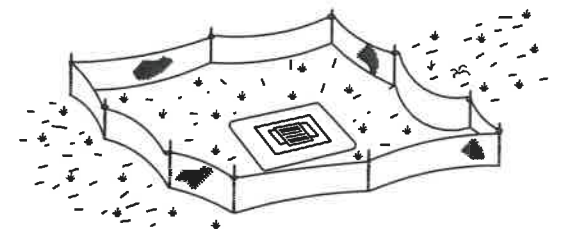
TYPICAL SWALE SECTION
FIGURE 5



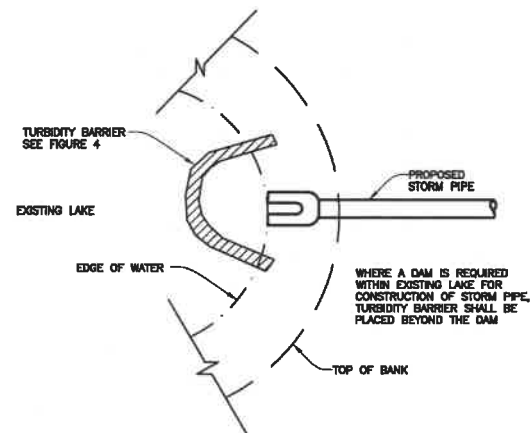
TYPICAL RETENTION/DETENTION POND SECTION
FIGURE 6



SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
FIGURE 7

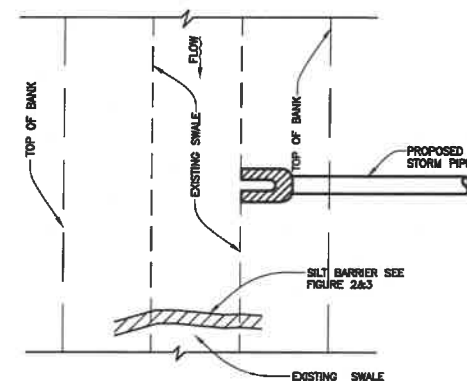


TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8

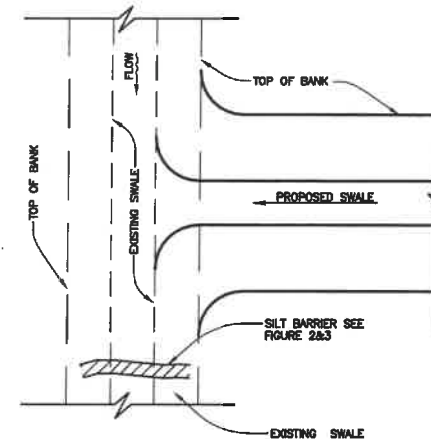


TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
FIGURE 9

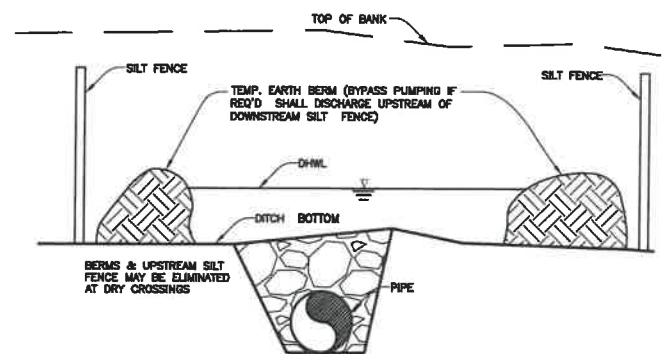
WHERE A DAM IS REQUIRED WITHIN EXISTING LAKE FOR CONSTRUCTION OF STORM PIPE, TURBIDITY BARRIER SHALL BE PLACED BEYOND THE DAM



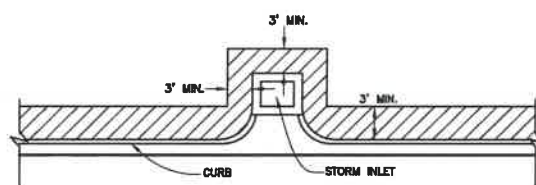
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
FIGURE 10



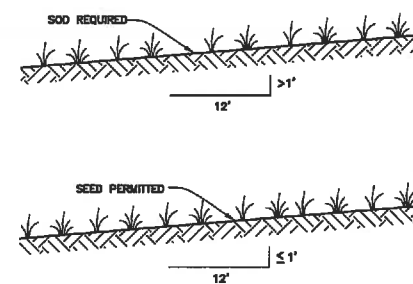
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
FIGURE 11



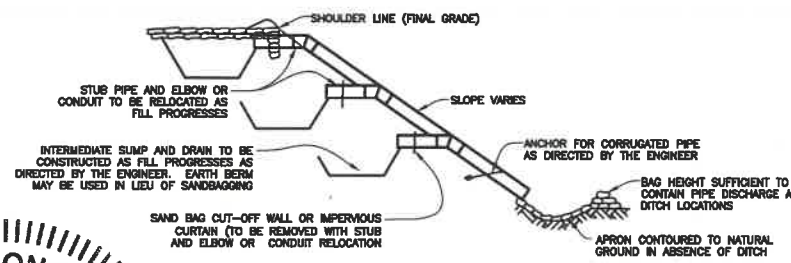
UNDERGROUND PIPE CROSSING
FIGURE 12



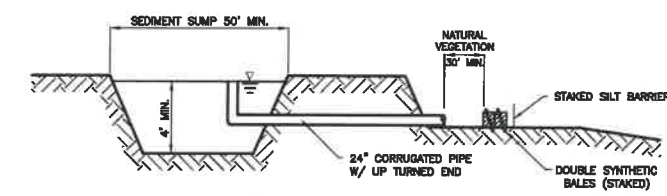
SOD ALONG CURB AND AROUND INLET
FIGURE 14



GRASS SLOPES
FIGURE 13



SECTION AA
TEMPORARY SLOPE DRAIN
FIGURE 15



SEDIMENT SUMP SECTION
FIGURE 16

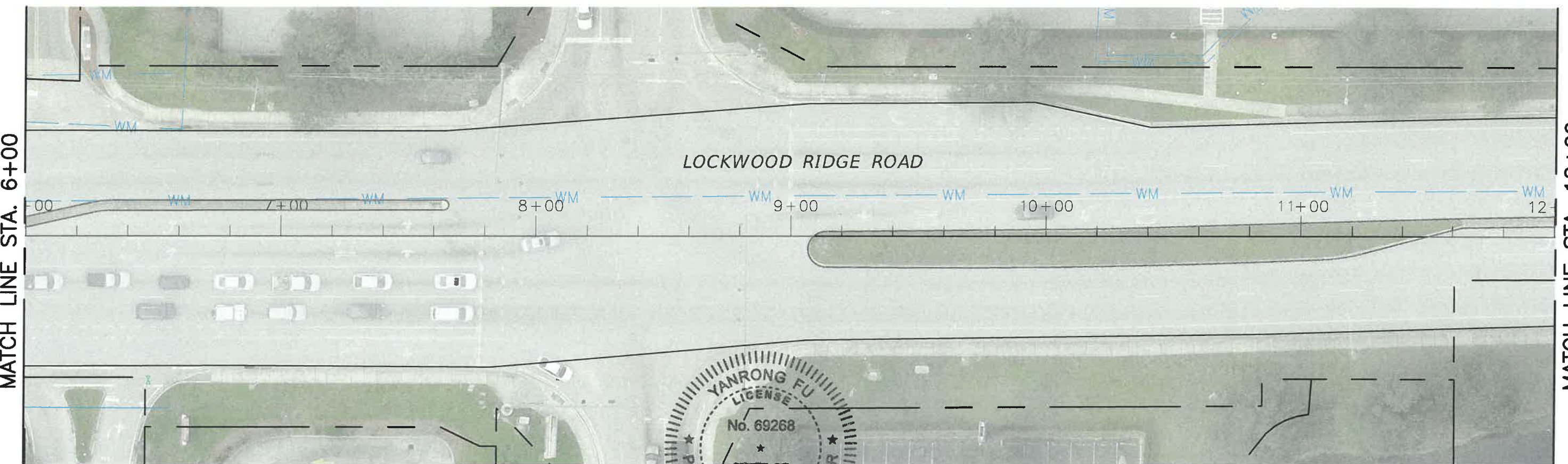
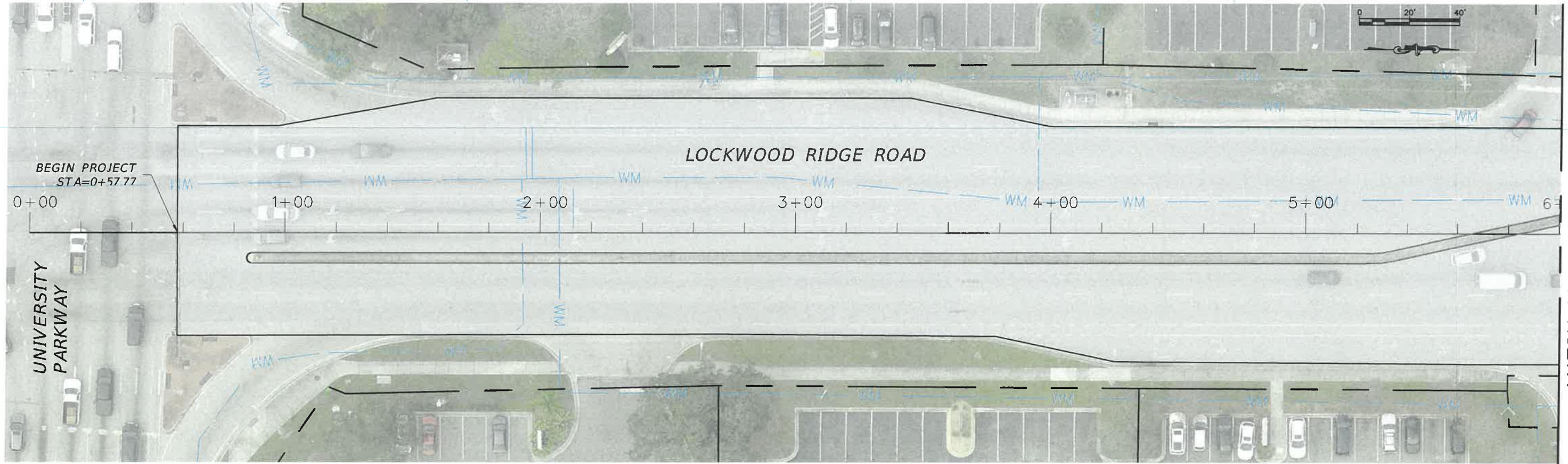
NOTE: REFERENCE THE FDOT DESIGN STANDARDS LATEST EDITION FOR ALL TEMPORARY EROSION CONTROL MEASURES.



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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
EROSION CONTROL

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 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature & Date 3/30/2022

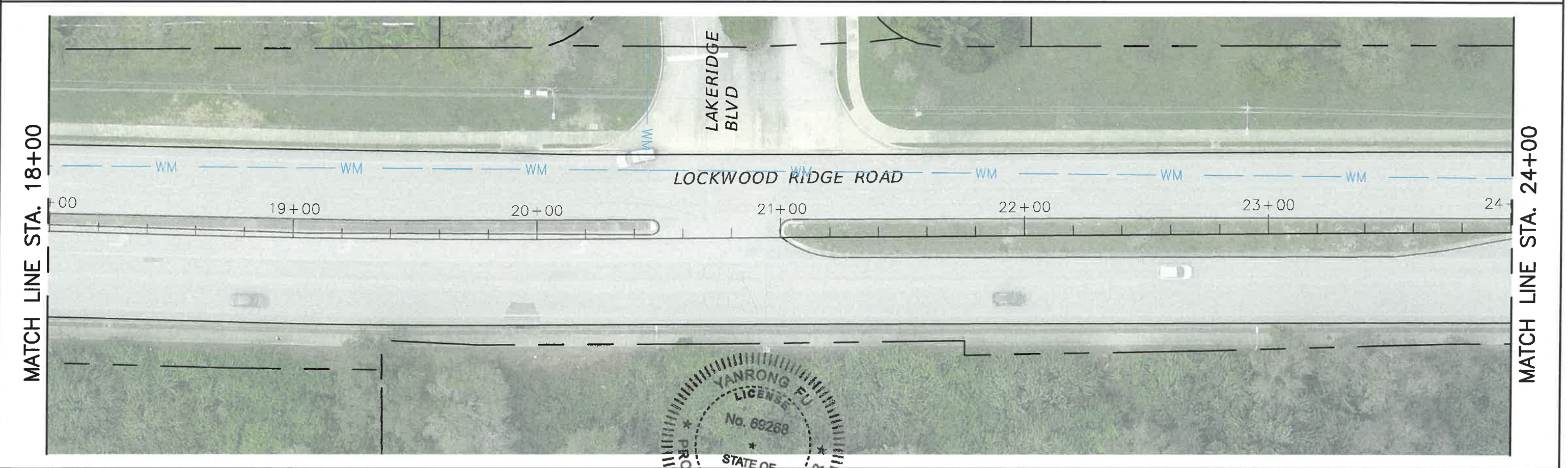


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LOCKWOOD RIDGE ROAD REBASE
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UAS STA. 0+00-12+00

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			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

H:\Highway Engineering\PROJECTS\Lockwood Ridge Rebase from 56th Ave Ter E to University Pkwy\DWG\Production Drawings\UAS\Lockwood-UAS.dwg [3/29/2022 1:29 PM]



YANRONG FU, P.E.
 License No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature & Date: *Yanrong Fu* 3/30/2022

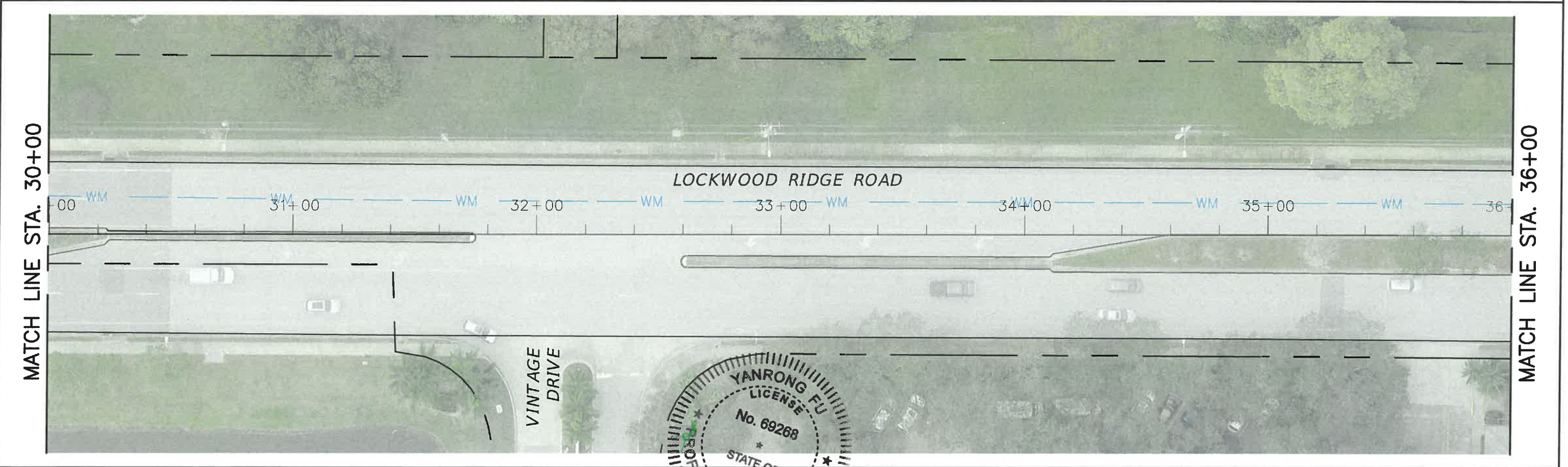
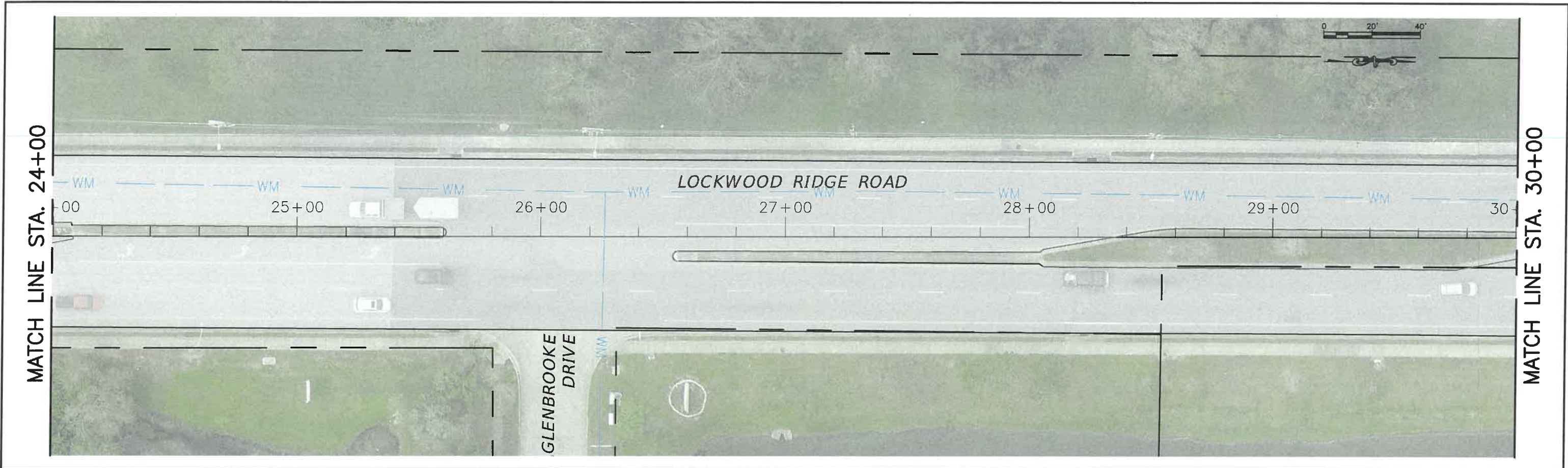


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1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 12-00-24-00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

H:\Highway Engineering\PROJECTS\Lockwood Ridge Rebase from 56th Ave Ter E to University Pkwy\DWG\Production Drawings\UAS\Lockwood-UAS.dwg [3/29/2022 1:30 PM]



NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	1/1/---
			SURVEY #	---	DESIGNED	---	1/1/---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	1/1/---

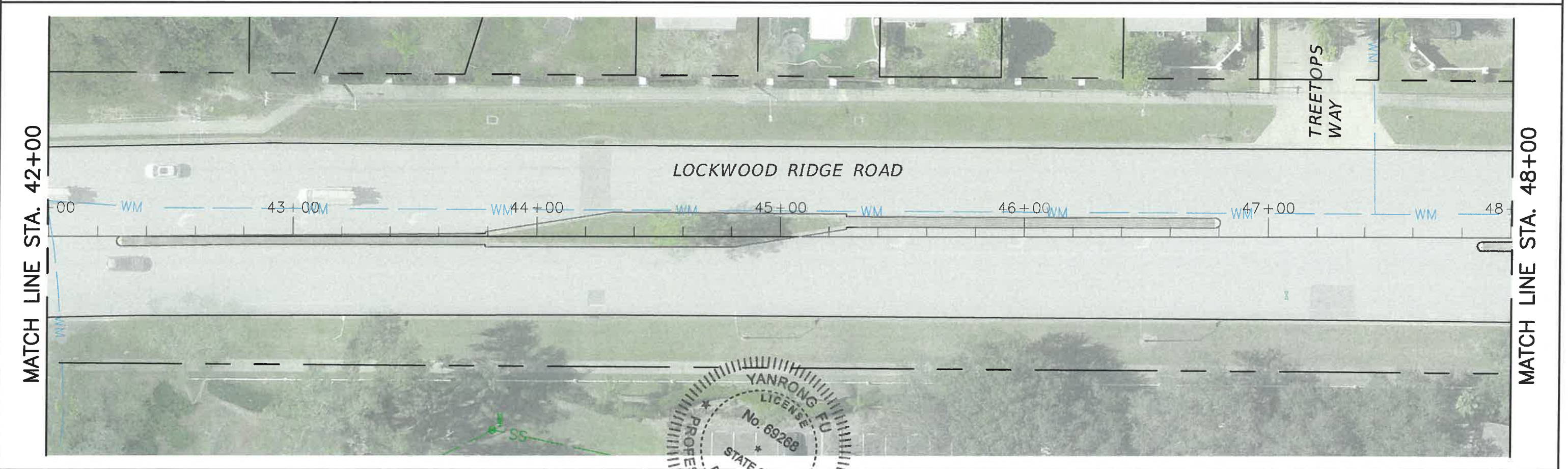
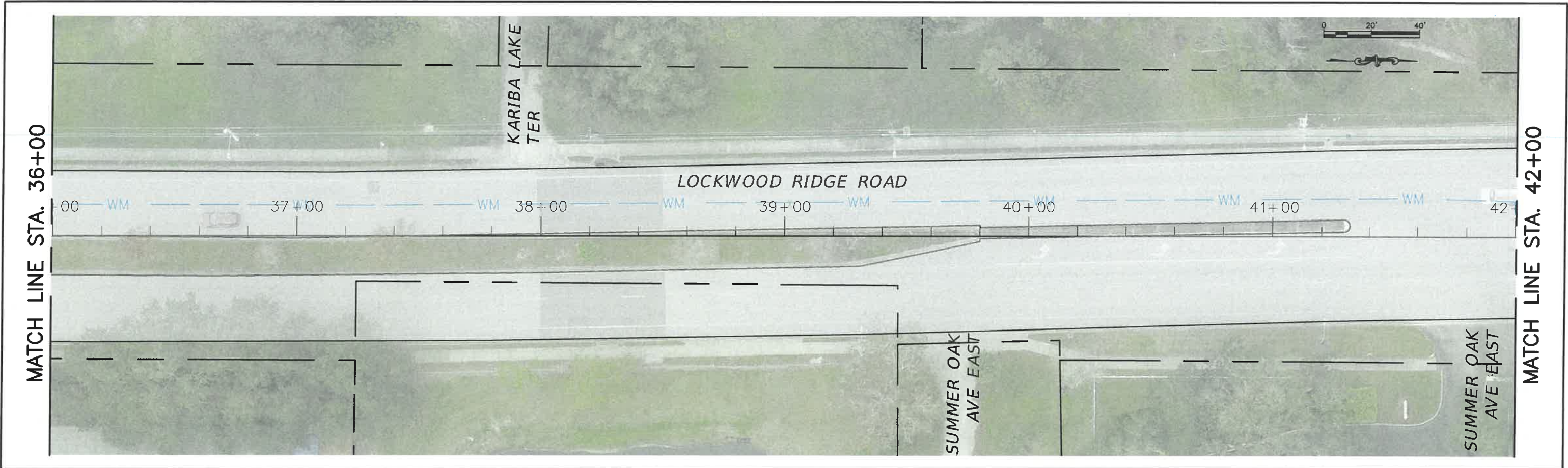
YANRONG FU, P.E.
 LICENSE No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
Yanrong Fu
 Signature & Date 3/30/2022

Manatee County
 FLORIDA
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 1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 24+00-36+00

SHEET NO.
26

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NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

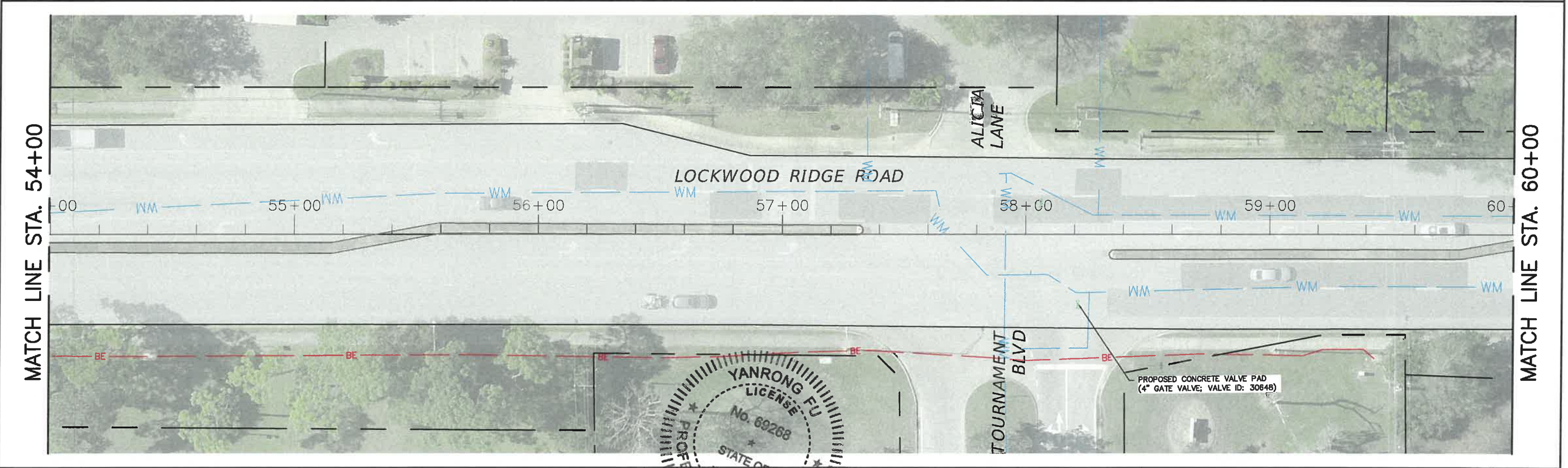
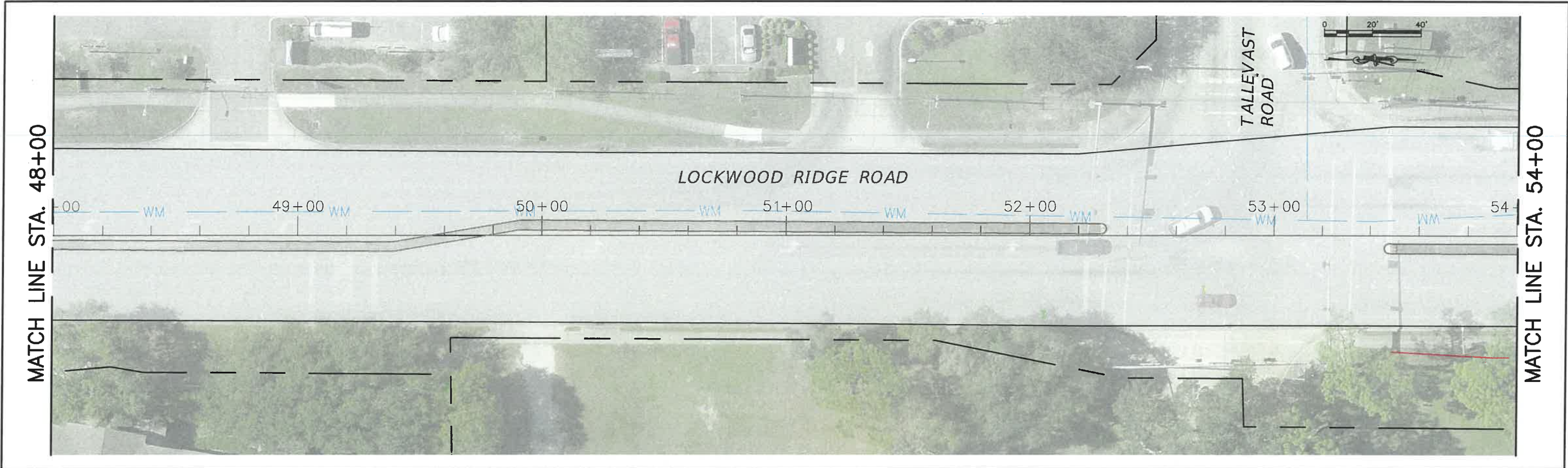
YANRONG FU
 LICENSE NO. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature & Date: *[Signature]* 3/30/2022

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 36+00-48+00

SHEET NO.
27

H:\Highway Engineering\PROJRESURFACING PROJECTS\Lockwood Ridge Rebase from 56th Ave Ter E to University Pkwy\DWG\Production Drawings\UAS\Lockwood-UAS.dwg [3/29/2022 1:30 PM]



YANRONG FU, P.E.
 LICENSE NO. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature & Date: 3/30/2022

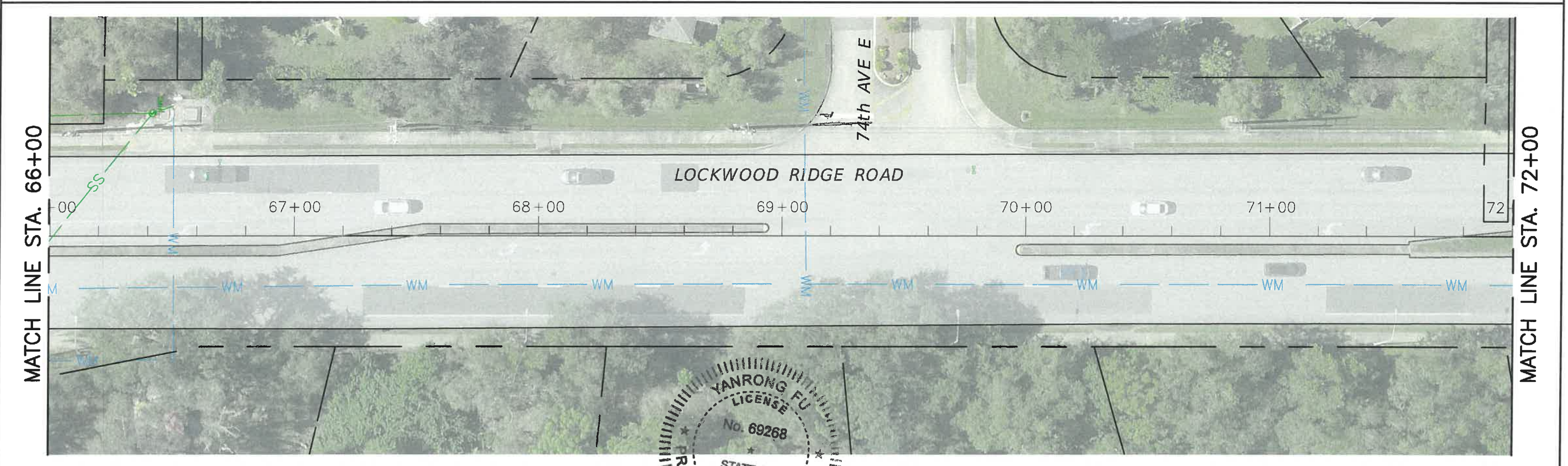
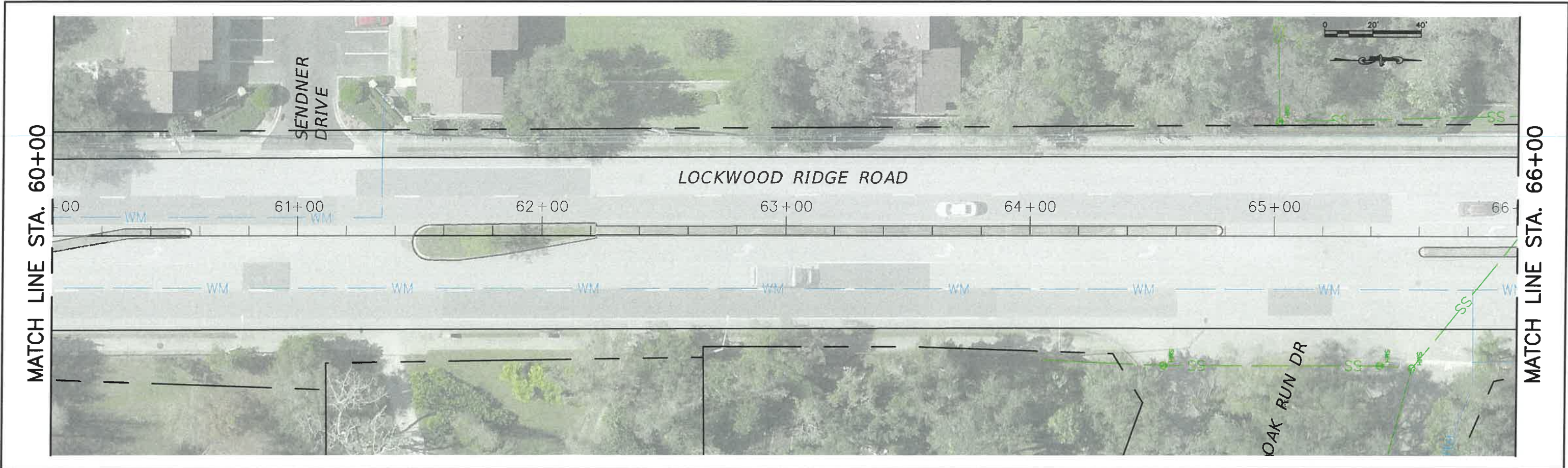


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 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 48-00-60-00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

H:\Highway Engineering\PROJECTS\Lockwood Ridge Rebase from 56th Ave Ter E to University Pkwy\DWG\Production Drawings\UAS\Lockwood-UAS.dwg [3/29/2022 1:30 PM]



YANRONG FU
 LICENSE
 No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature: *[Signature]* Date: 3/30/2022



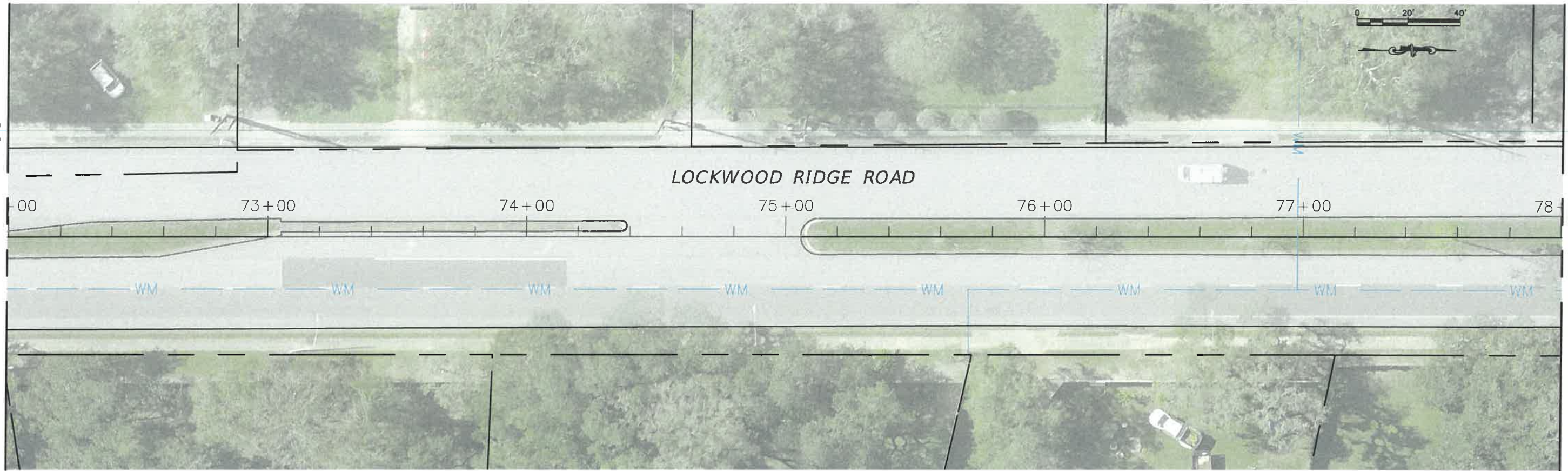
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 60+00-72+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

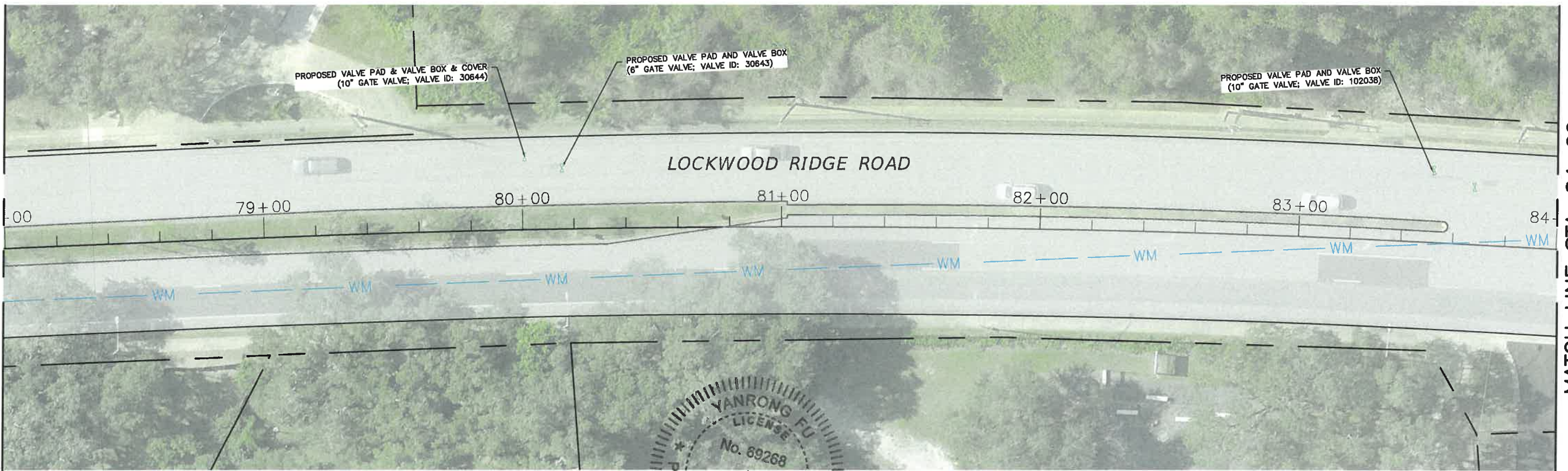
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MATCH LINE STA. 72+00



MATCH LINE STA. 78+00

MATCH LINE STA. 78+00



MATCH LINE STA. 84+00

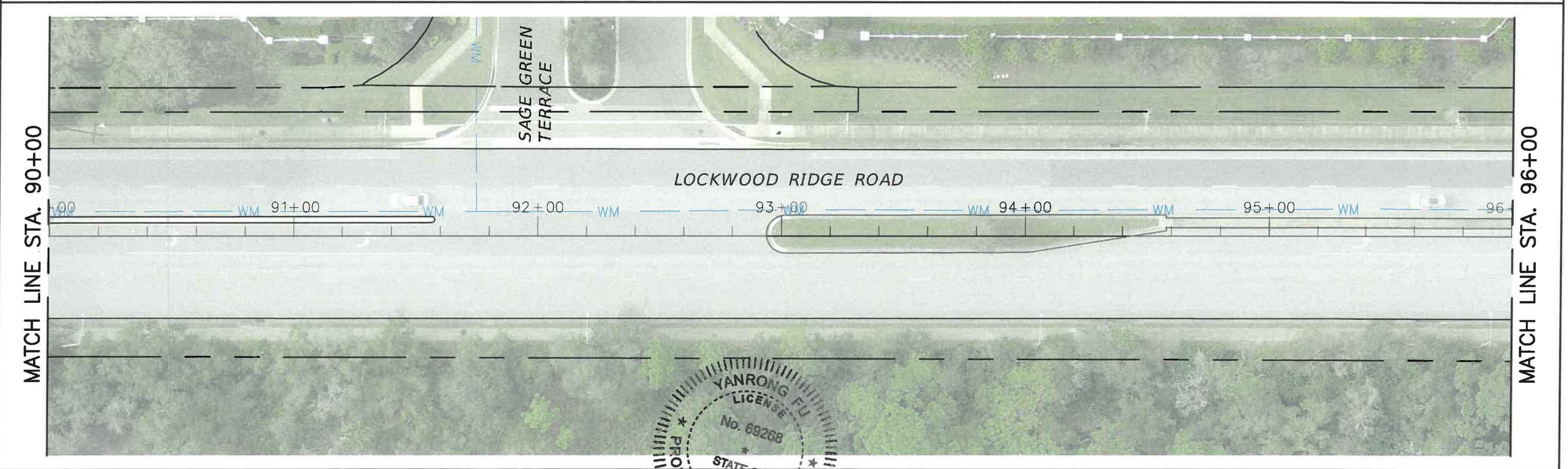
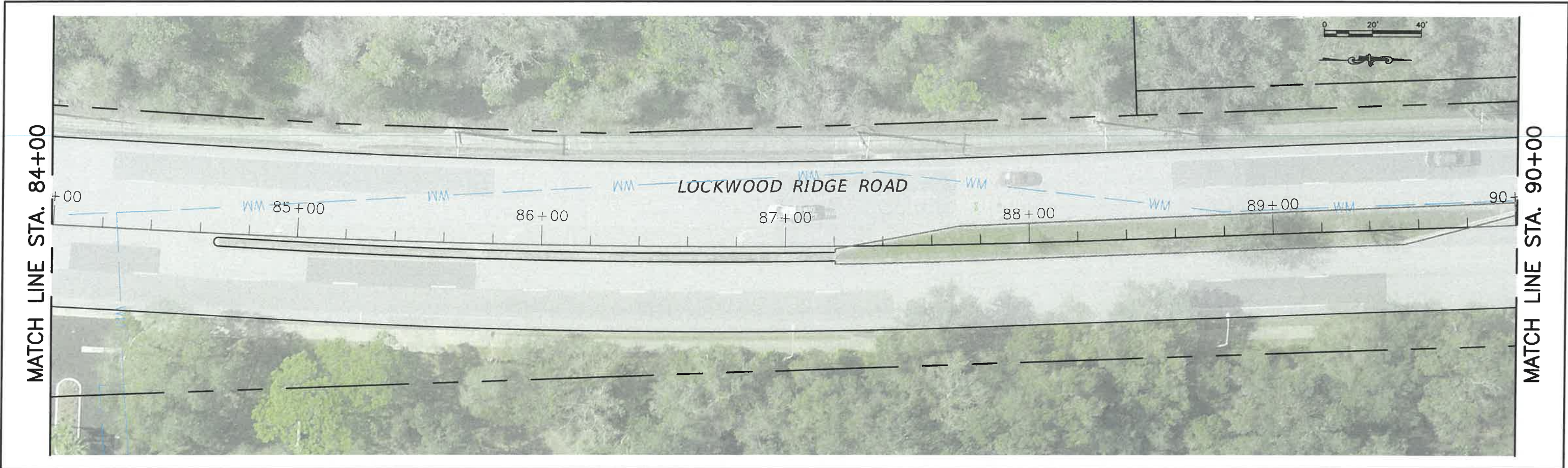


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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 72+00-84+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

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ENGINEERING SERVICES**
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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 84+00-96+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

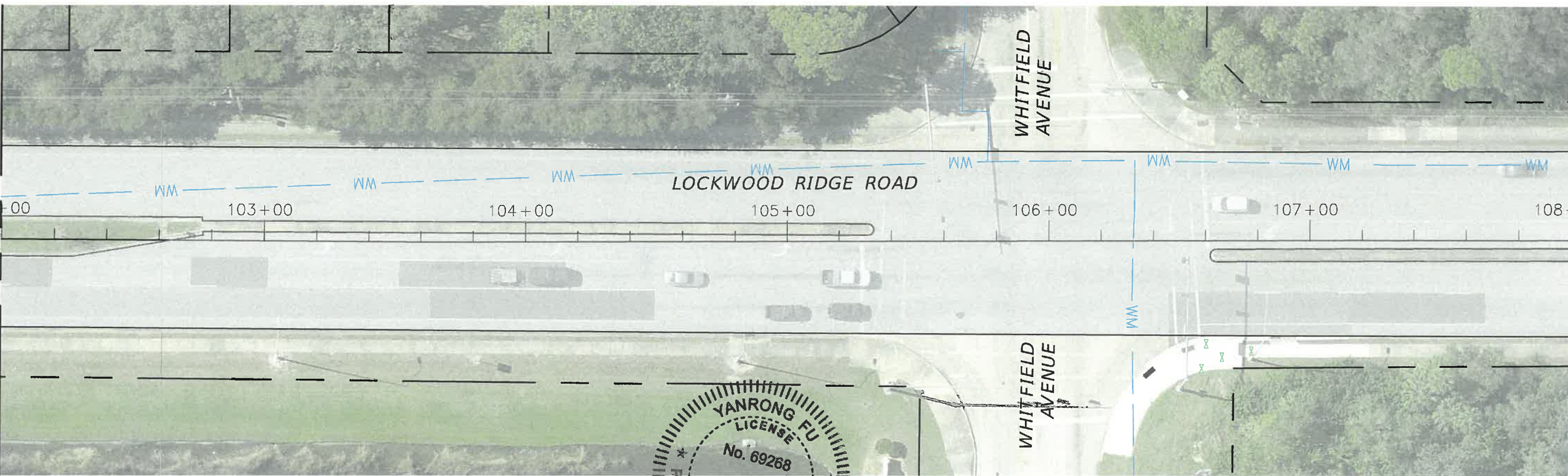
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MATCH LINE STA. 96+00



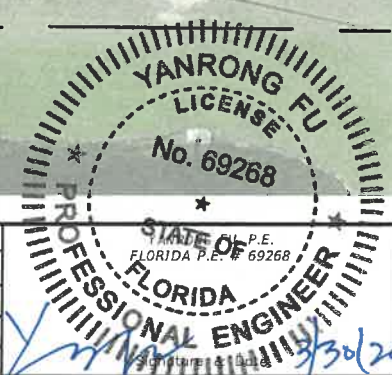
MATCH LINE STA. 102+00

MATCH LINE STA. 102+00



MATCH LINE STA. 108+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---




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LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 96.00-108.00

SHEET NO.
32

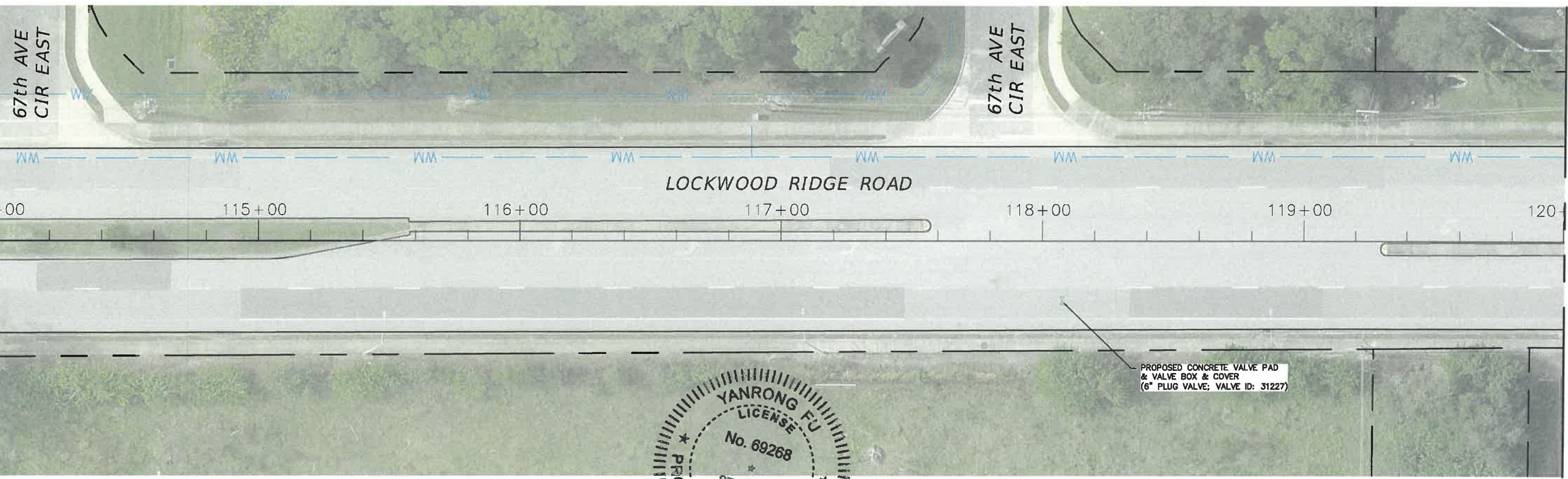
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MATCH LINE STA. 108+00



MATCH LINE STA. 114+00

MATCH LINE STA. 114+00



MATCH LINE STA. 120+00



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**LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 108+00-120+00**

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	1/1/---
			SURVEY #	---	DESIGNED	---	1/1/---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	1/1/---

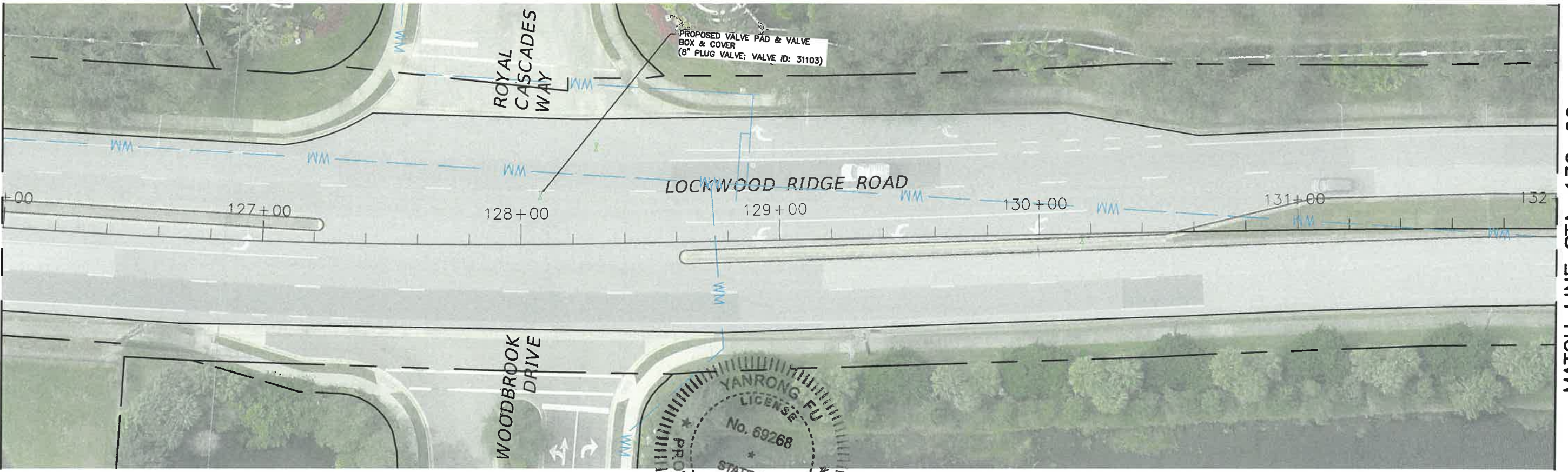
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MATCH LINE STA. 120+00



MATCH LINE STA. 126+00

MATCH LINE STA. 126+00



MATCH LINE STA. 132+00

YANRONG FU, P.E.
 LICENSE No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature & Date



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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 120+00-132+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

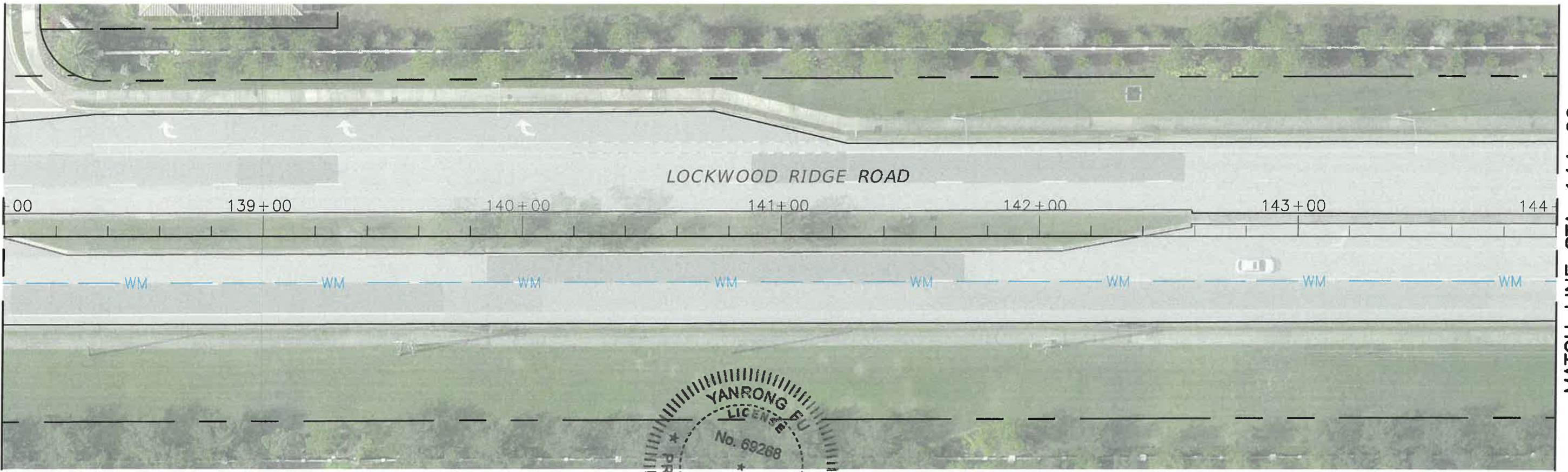
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MATCH LINE STA. 132+00



MATCH LINE STA. 138+00

MATCH LINE STA. 138+00



MATCH LINE STA. 144+00



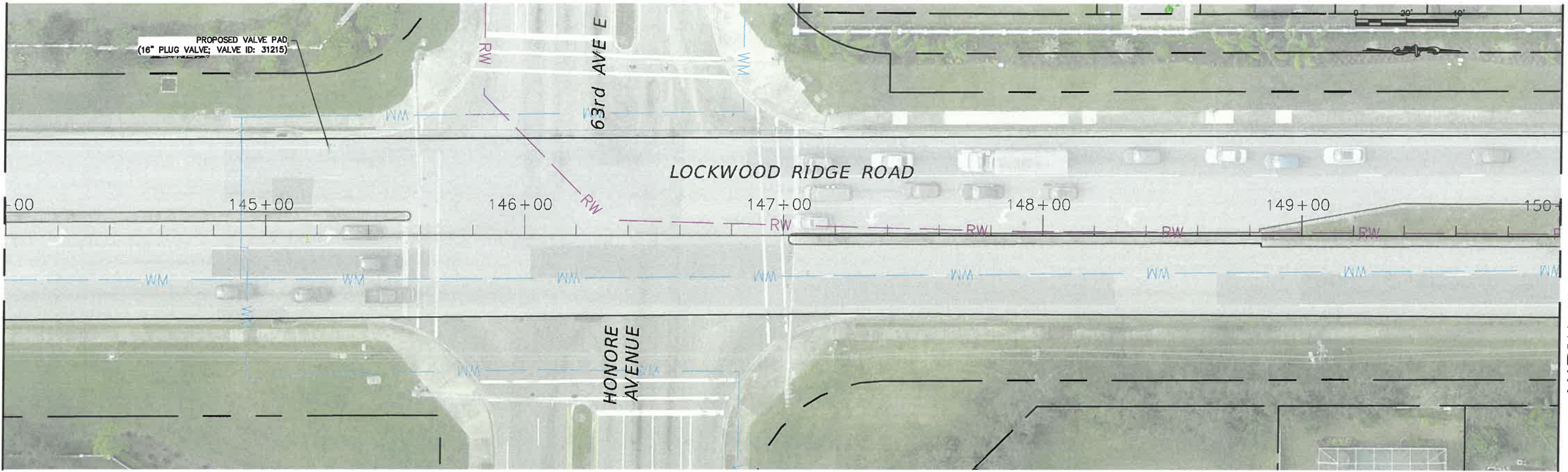
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 132+00-144+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	///
			SURVEY #	---	DESIGNED	---	///
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	///

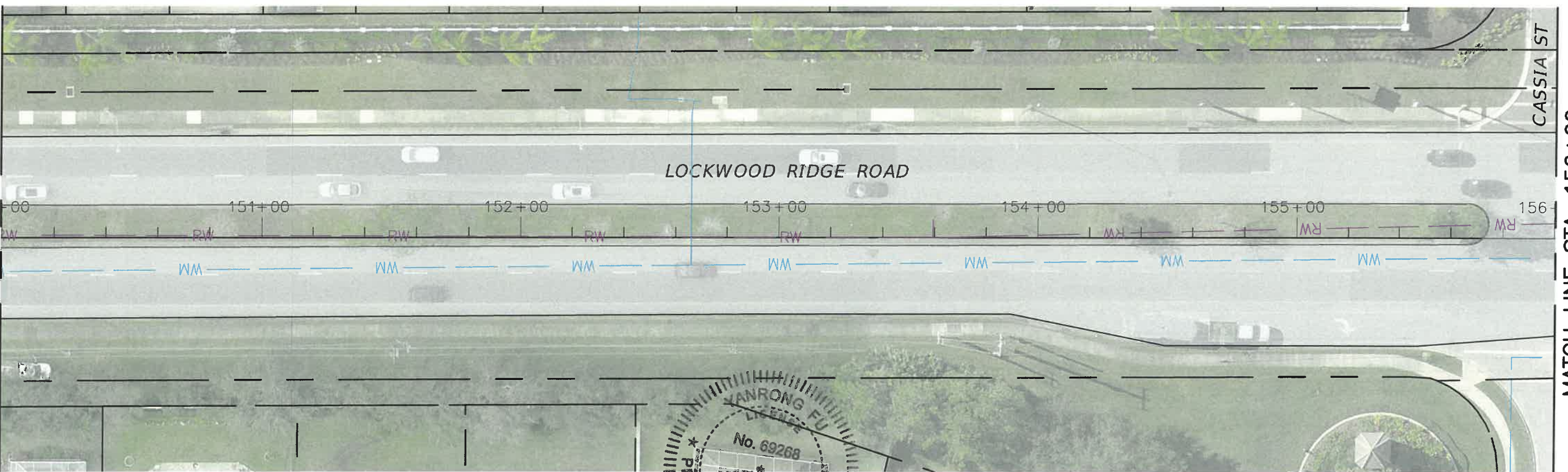
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MATCH LINE STA. 144+00



MATCH LINE STA. 150+00

MATCH LINE STA. 150+00



MATCH LINE STA. 156+00

YANRONG FU
 LICENSE
 No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature: *[Handwritten Signature]*



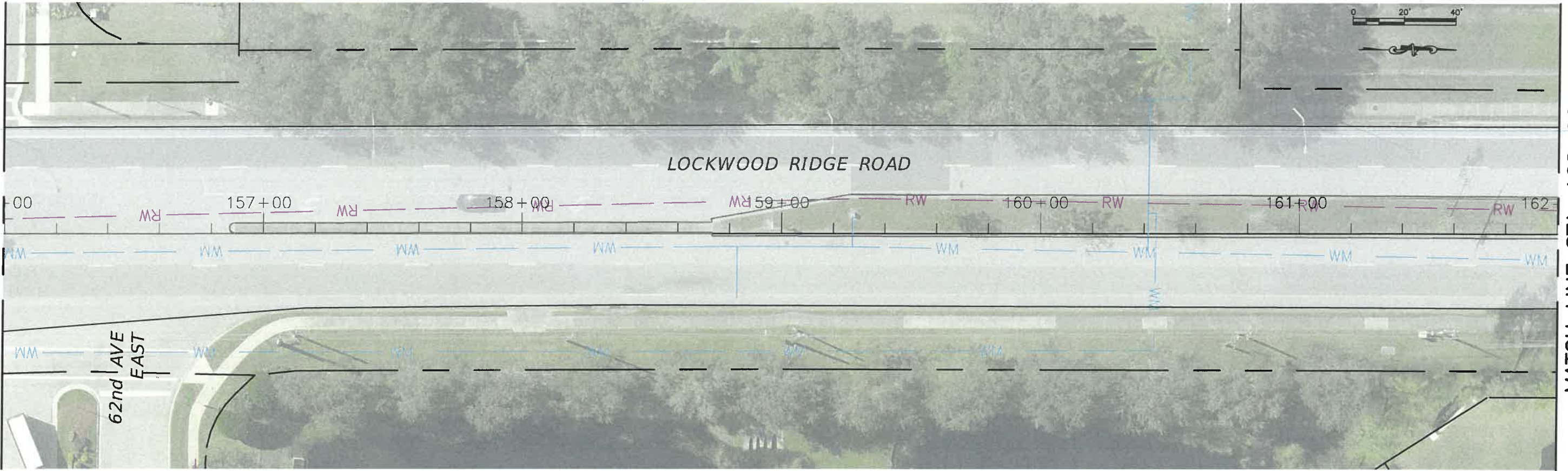
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 144.00-156.00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	1/1/
			SURVEY #	---	DESIGNED	---	1/1/
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	1/1/

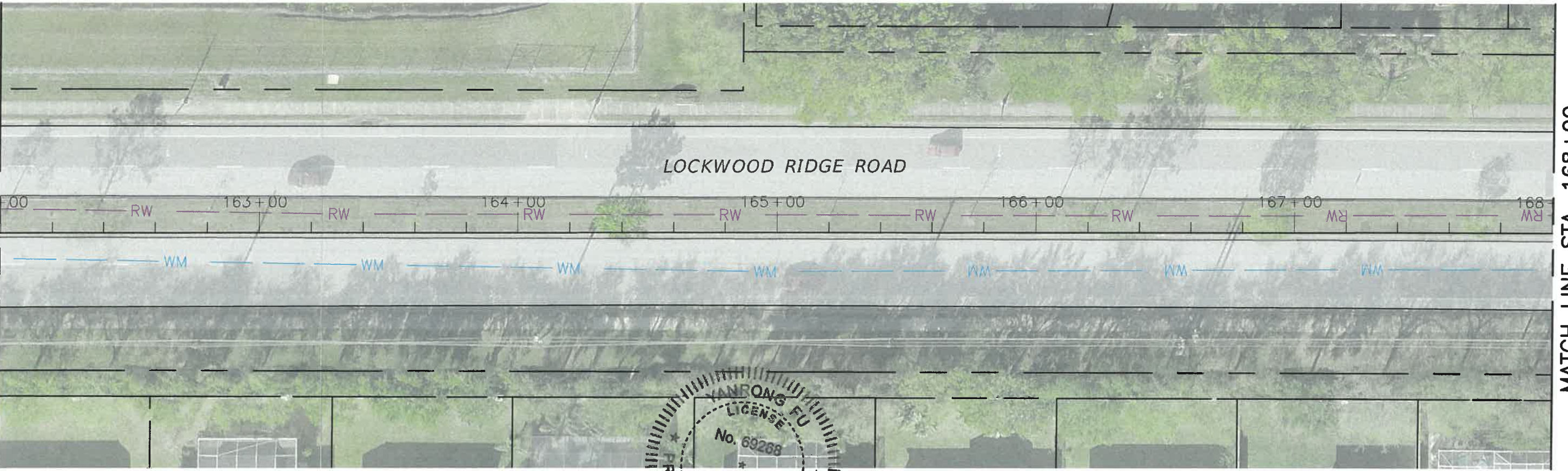
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MATCH LINE STA. 156+00



MATCH LINE STA. 162+00

MATCH LINE STA. 162+00



MATCH LINE STA. 168+00



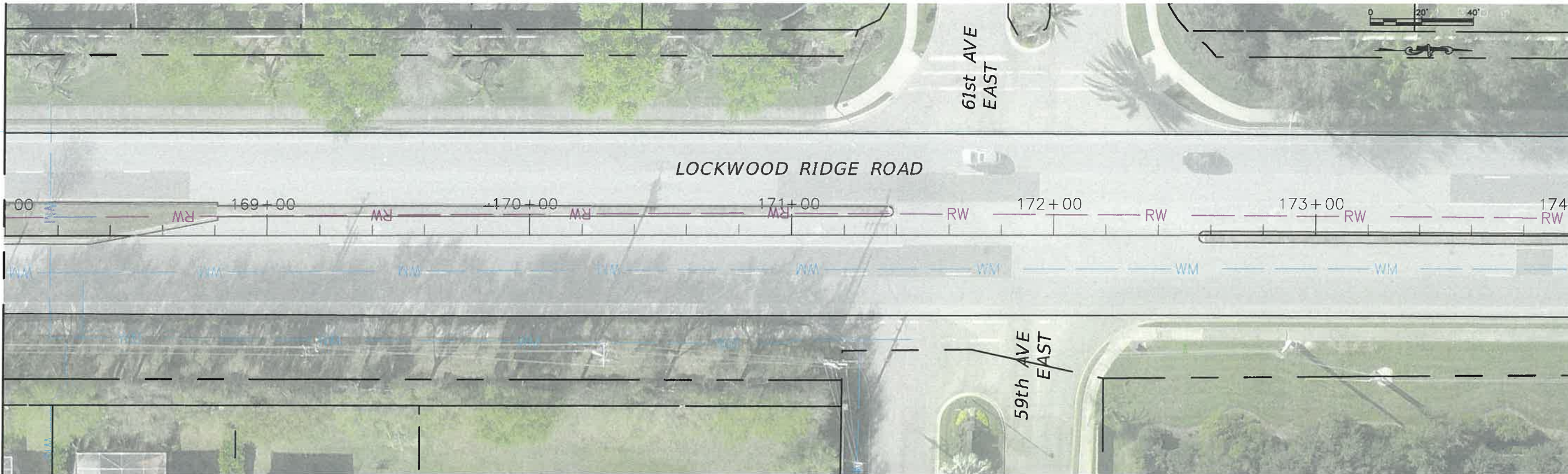
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 156+00-168+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	---
			SURVEY #	---	DESIGNED	---	---
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	---

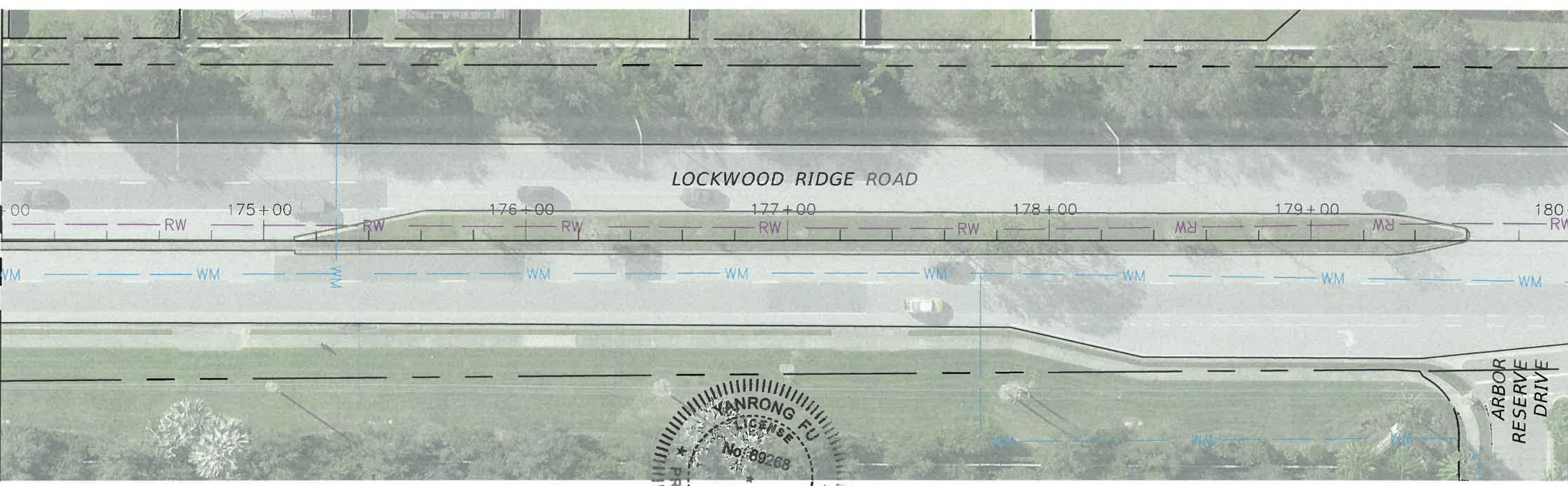
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MATCH LINE STA. 168+00



MATCH LINE STA. 174+00

MATCH LINE STA. 174+00



MATCH LINE STA. 180+00



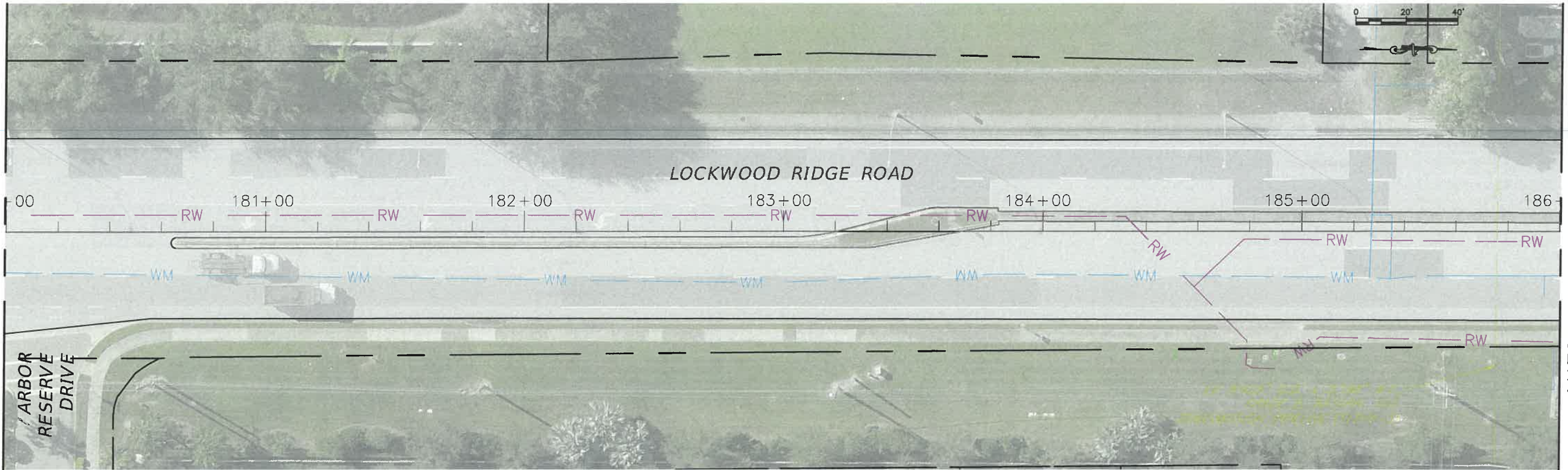
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 168+00-190+00

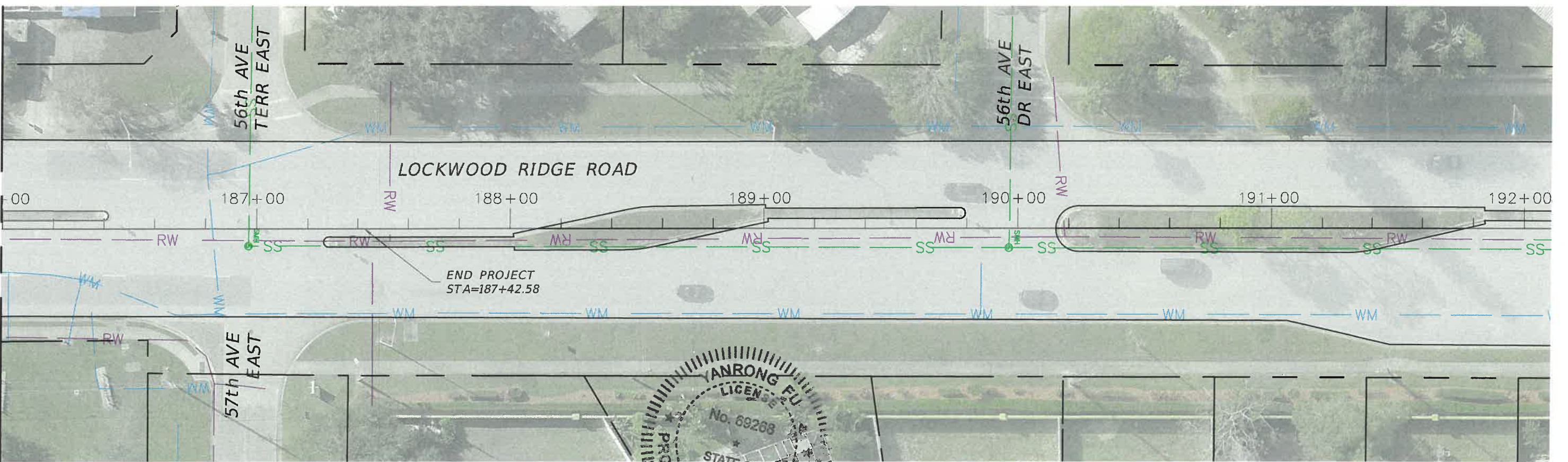
NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	1/1/
			SURVEY #	---	DESIGNED	---	1/1/
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	1/1/

H:\Highway Engineering\PROJECTS\LOCKWOOD RIDGE REBASE FROM 56TH AVE TER E TO UNIVERSITY PKWY\DWG\Production Drawings\UAS\Lockwood-UAS.dwg [3/29/2022 1:31 PM]

MATCH LINE STA. 180+00



MATCH LINE STA. 186+00



YANRONG FU, P.E.
 LICENSE No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature & Date



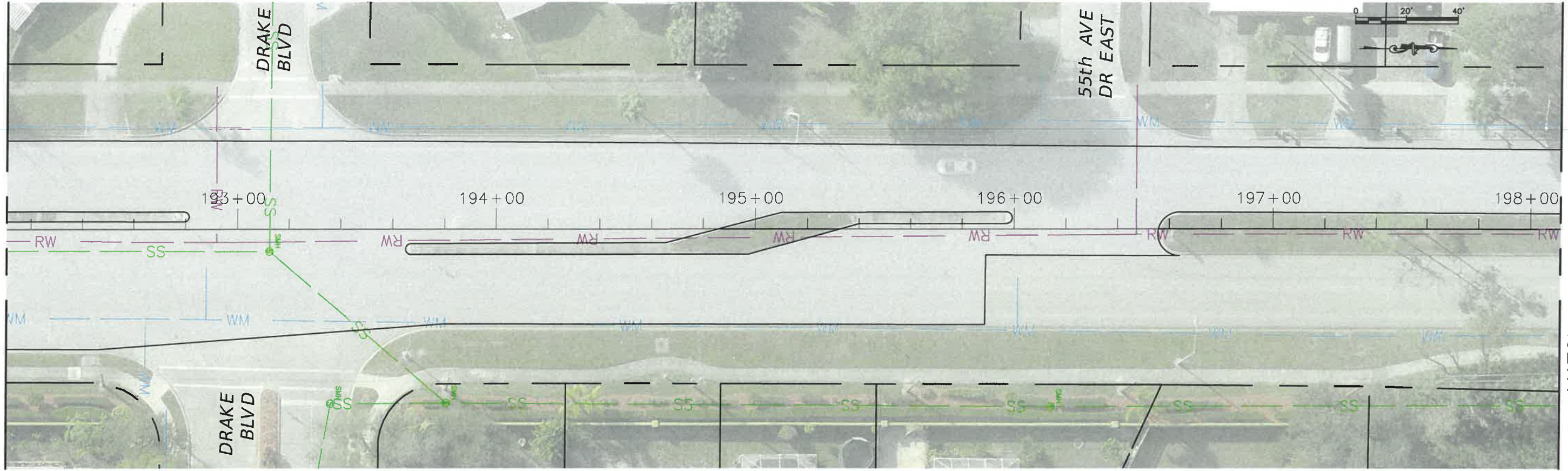
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS STA. 180.00-192.00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	1/1/21
			SURVEY #	---	DESIGNED	---	1/1/21
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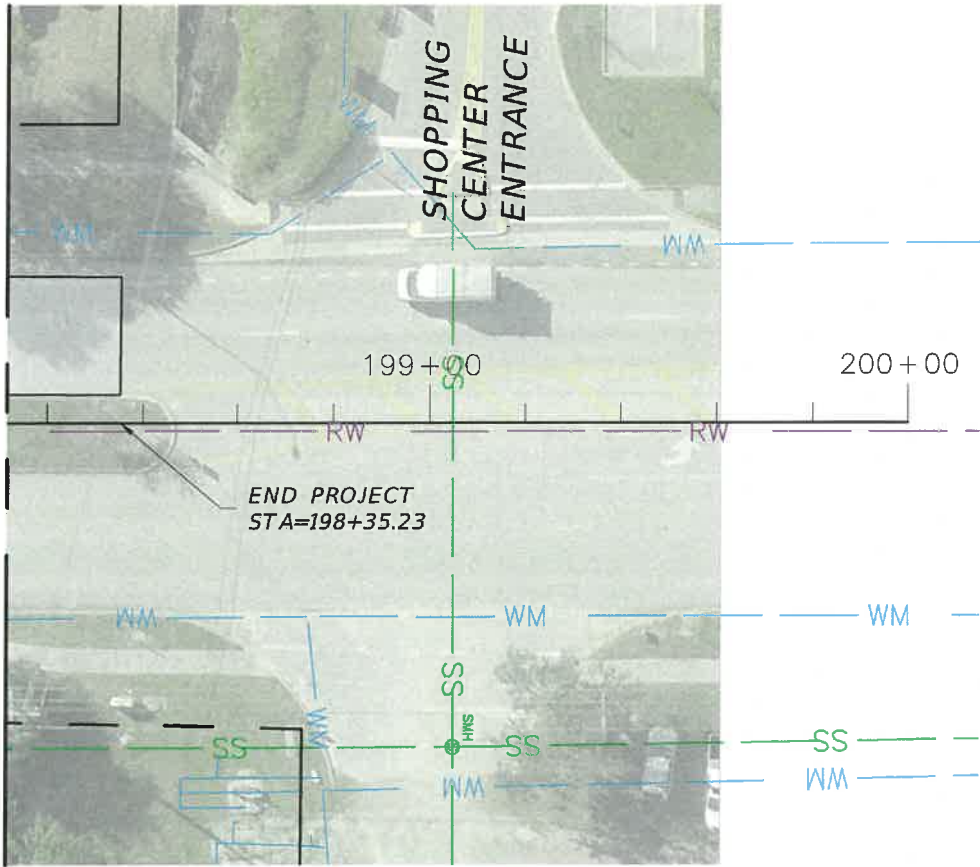
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MATCH LINE STA. 192+00



MATCH LINE STA. 198+00

MATCH LINE STA. 198+00



YANRONG FU
 LICENSE FU
 No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Signature & Date: *[Signature]* 3/30/2022



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

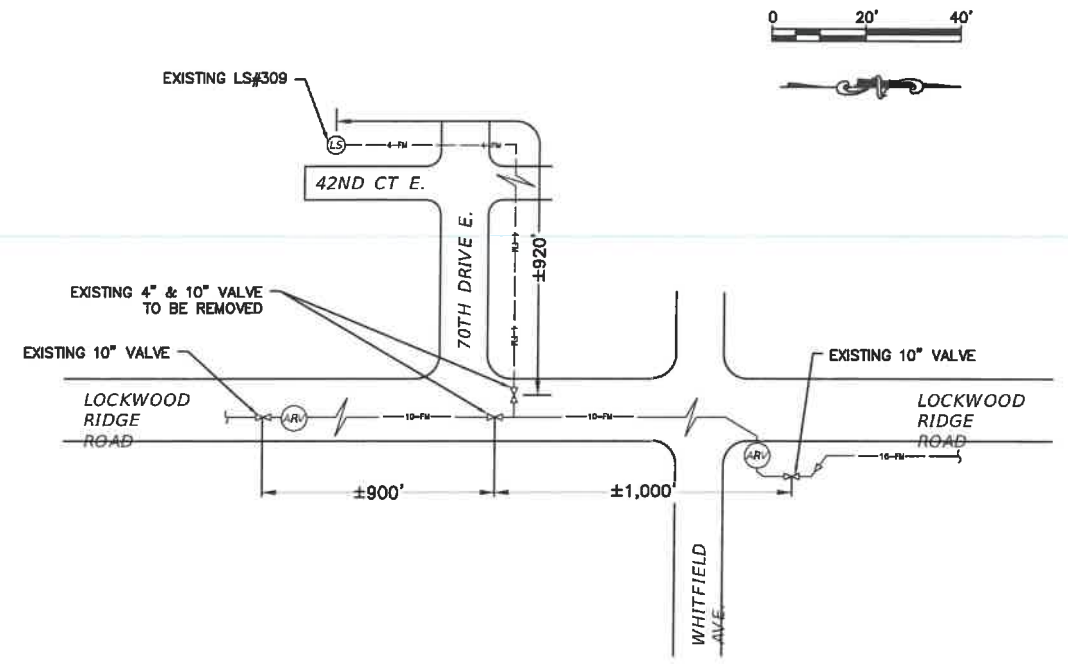
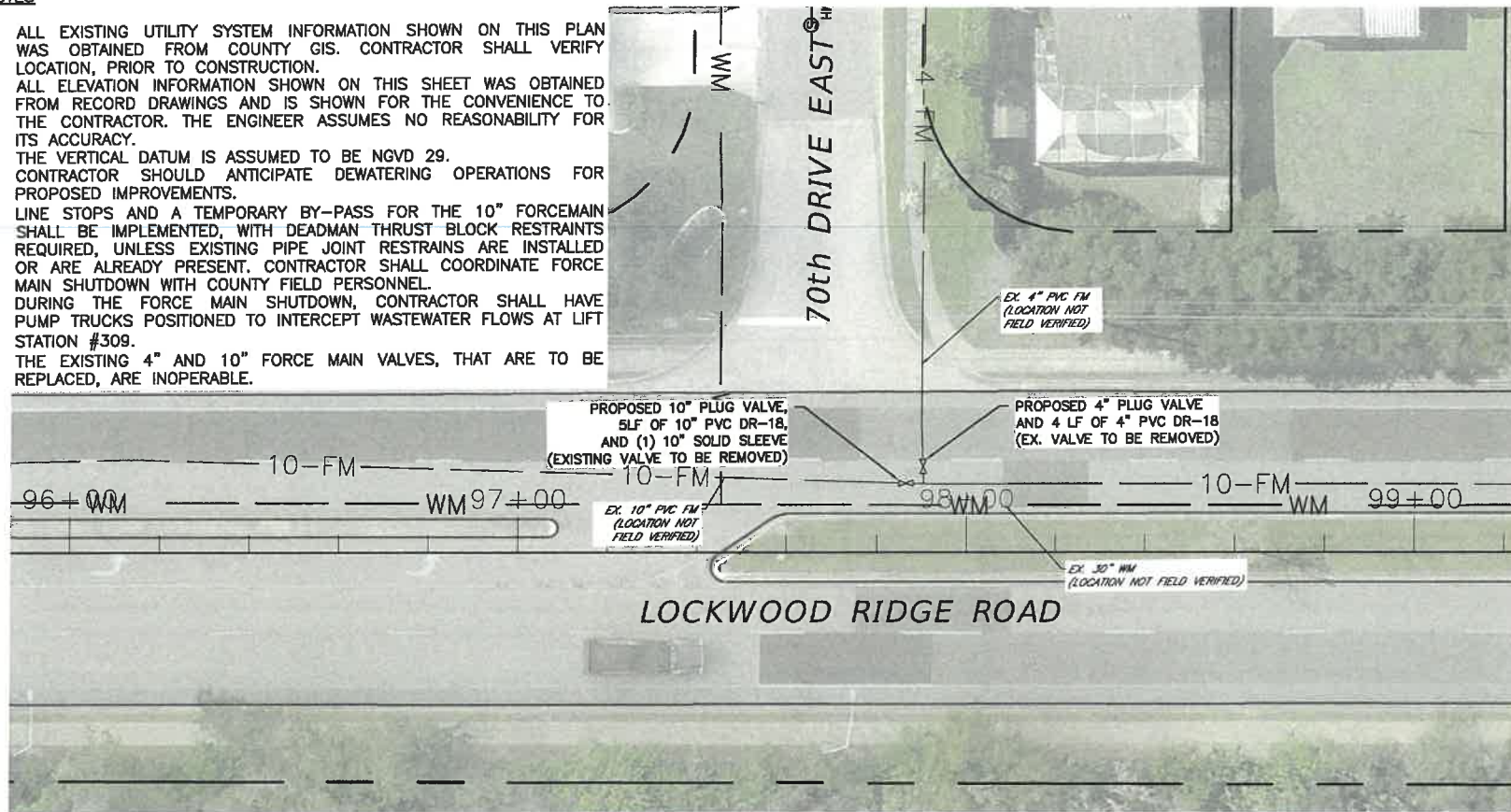
LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
PLAN STA. 192+00-200+00

NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	---	1/1/22
			SURVEY #	---	DESIGNED	---	1/1/22
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	---	1/1/22

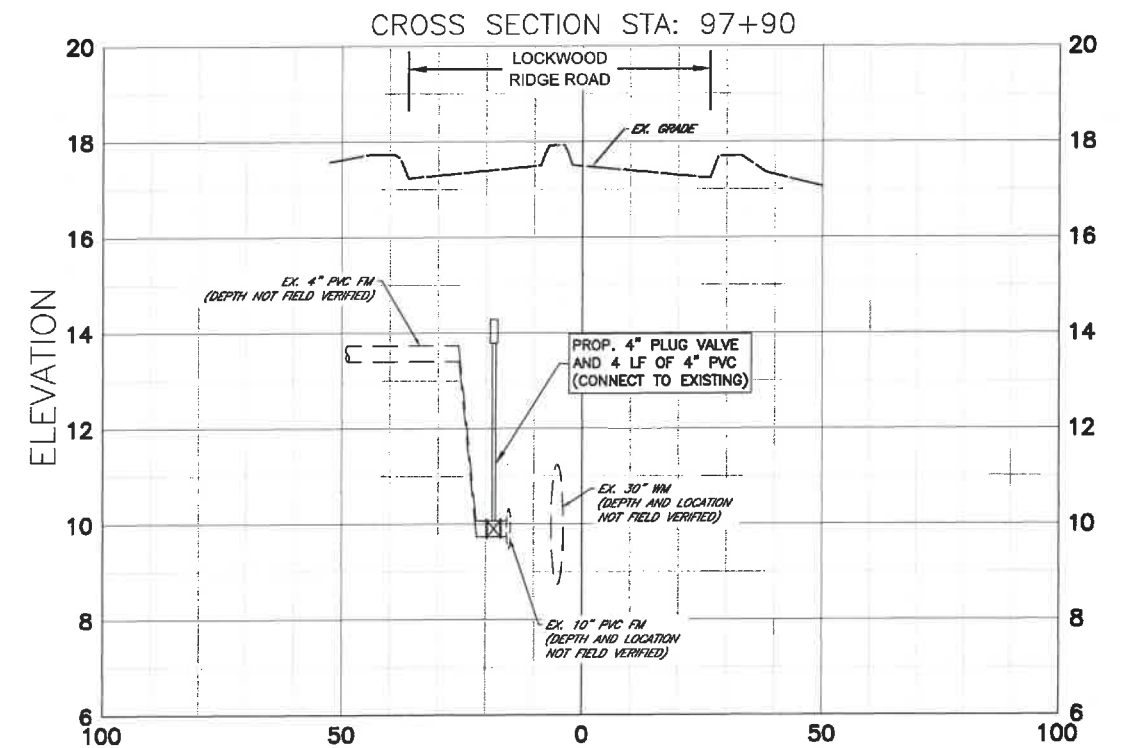
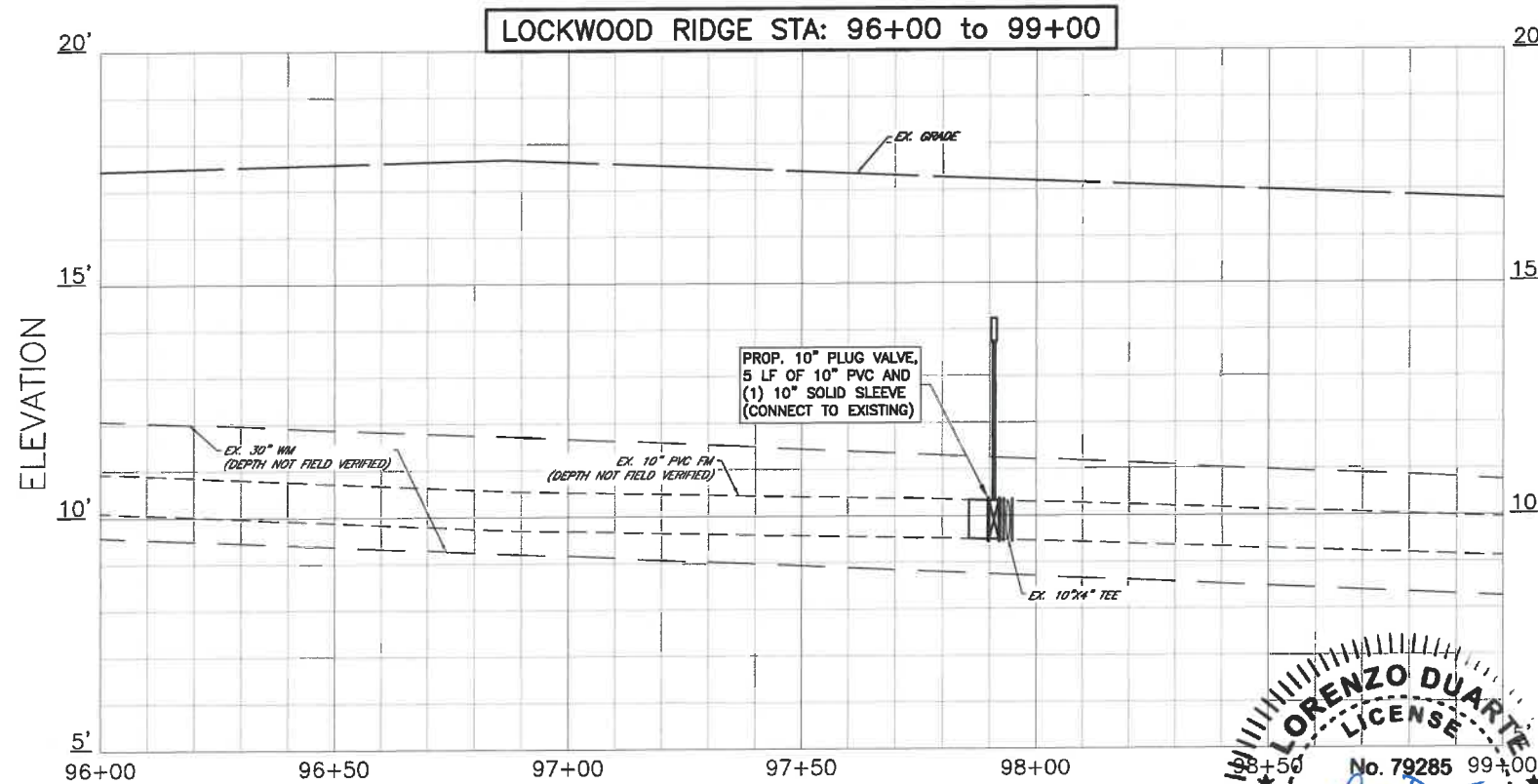
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NOTES

1. ALL EXISTING UTILITY SYSTEM INFORMATION SHOWN ON THIS PLAN WAS OBTAINED FROM COUNTY GIS. CONTRACTOR SHALL VERIFY LOCATION, PRIOR TO CONSTRUCTION.
2. ALL ELEVATION INFORMATION SHOWN ON THIS SHEET WAS OBTAINED FROM RECORD DRAWINGS AND IS SHOWN FOR THE CONVENIENCE TO THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.
3. THE VERTICAL DATUM IS ASSUMED TO BE NGVD 29.
4. CONTRACTOR SHOULD ANTICIPATE DEWATERING OPERATIONS FOR PROPOSED IMPROVEMENTS.
5. LINE STOPS AND A TEMPORARY BY-PASS FOR THE 10" FORCEMAIN SHALL BE IMPLEMENTED, WITH DEADMAN THRUST BLOCK RESTRAINTS REQUIRED, UNLESS EXISTING PIPE JOINT RESTRAINTS ARE INSTALLED OR ARE ALREADY PRESENT. CONTRACTOR SHALL COORDINATE FORCE MAIN SHUTDOWN WITH COUNTY FIELD PERSONNEL.
6. DURING THE FORCE MAIN SHUTDOWN, CONTRACTOR SHALL HAVE PUMP TRUCKS POSITIONED TO INTERCEPT WASTEWATER FLOWS AT LIFT STATION #309.
7. THE EXISTING 4" AND 10" FORCE MAIN VALVES, THAT ARE TO BE REPLACED, ARE INOPERABLE.



FORCE MAIN VALVE SCHEMATIC
SCALE: N.T.S.



LORENZO DUARTE
 LICENSE
 No. 79285
 3-30-22
 STATE OF FLORIDA
PROFESSIONAL ENGINEER
 Signature | Date

NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	DESIGNED	DRAWN	CHECKED
			858-6107960	---	---	KHL	10/01/21



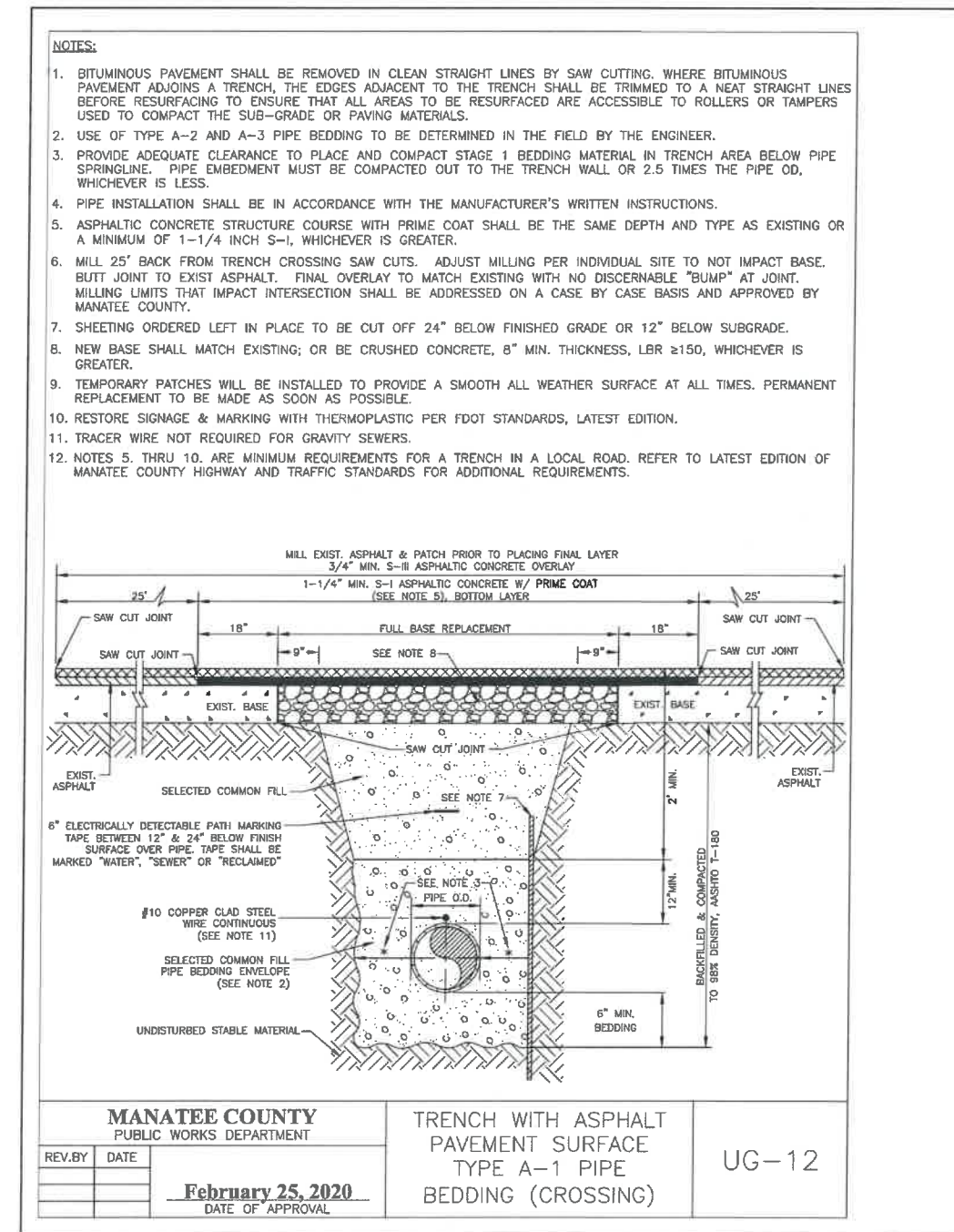
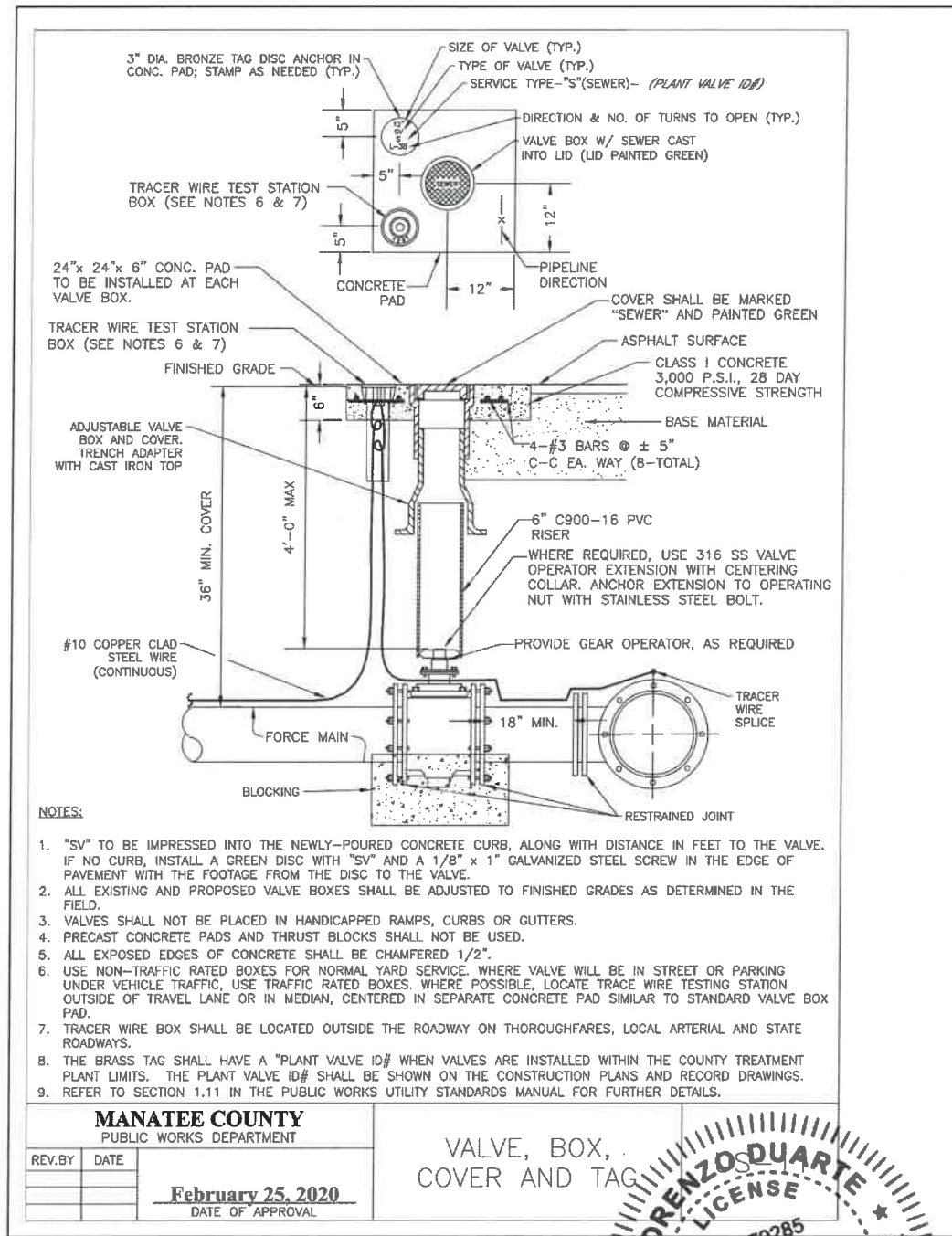
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
UAS FORCEMAIN DETAIL

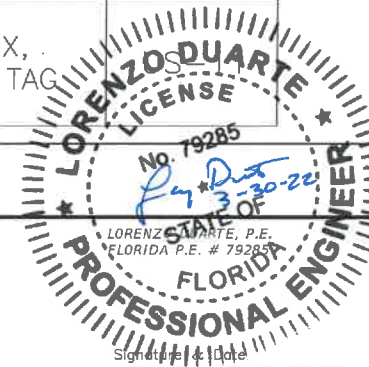
H:\Highway Engineering\PROJECTS\Lockwood Ridge Rebase from 56th Ave Ter E to University Pkwy\DWG\Production Drawings\UAS\Lockwood-FM Valve.dwg [3/30/2022 2:00 PM]

GENERAL NOTES

1. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
3. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES. MODIFICATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.
4. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
5. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
6. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
7. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
8. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.



NUMBER	DESCRIPTION	DATE	PROJECT #	858-6107960	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
			SEC./TWN./RGE	00/00/00	DRAWN	KHL	10/01/21
			SCALE	AS SHOWN	CHECKED	----	___/___/___



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

LOCKWOOD RIDGE ROAD REBASE
UNIVERSITY PKWY TO 56TH AVE TER E
US-11 - US-12 DETAILS