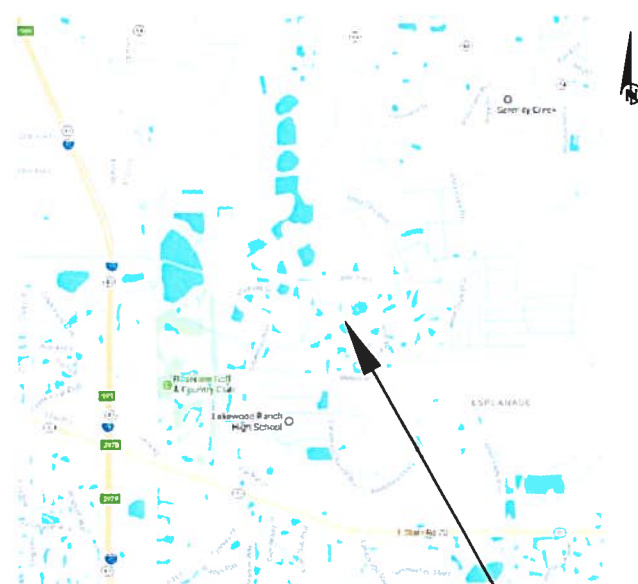


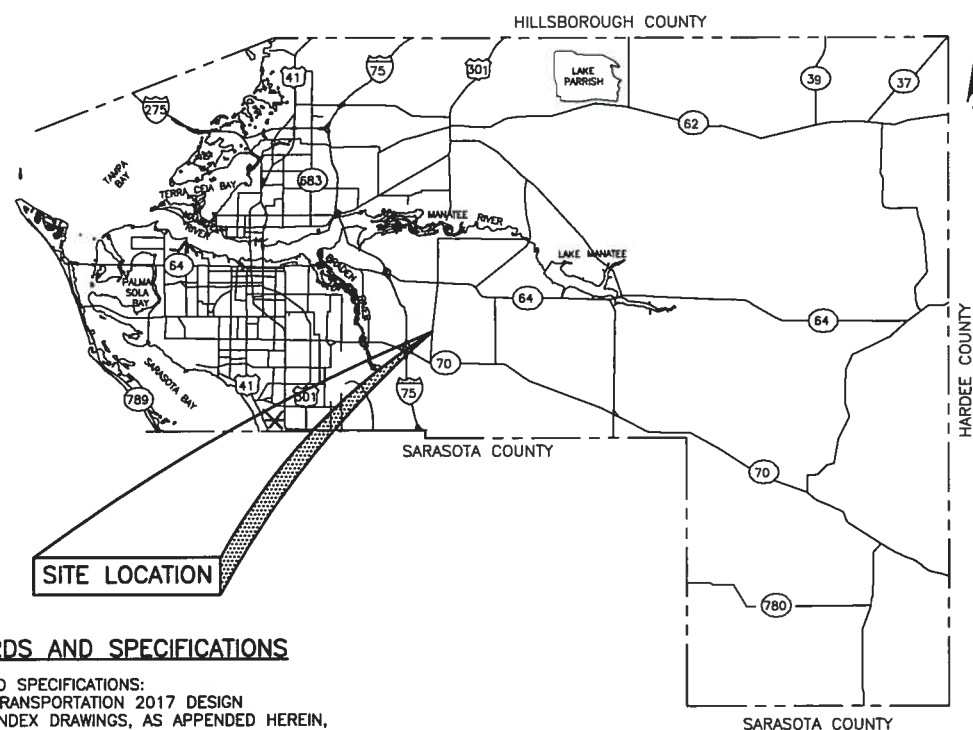
**LAKEWOOD RANCH BLVD REBASE AND RESURFACING  
RANGELAND PARKWAY TO NORTH OF ARCADE PLACE  
319-6049960**

OCTOBER 2018



VICINITY MAP  
N.T.S.

## PROJECT SITE



### SITE LOCATION

## RELATED STANDARDS AND SPECIFICATIONS

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION 2017 DESIGN  
STANDARDS AND REVISED INDEX DRAWINGS, AS APPENDED HEREIN,  
AND APPLICABLE ARTICLES AND SUB-ARTICLES OF DIVISION I AND  
ALL OF DIVISIONS II & III OF THE 2017 STANDARD SPECIFICATIONS  
FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT  
DOCUMENTS.

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK  
AT THE FOLLOWING WEB SITE:

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE  
FOLLOWING WEB SITE:  
[HTTP://WWW.DOT.STATE.FL.US/SPECIFICATIONSOFFICE/](http://www.dot.state.fl.us/specificationsoffice/)

[illegible]

NO.	INDEX OF SHEETS
1	COVER SHEET
2-3	GENERAL NOTES & LEGEND
4	QUANTITY SHEET
5	TYPICAL SECTIONS
6-18	PLAN SHEETS
19	EROSION CONTROL

PROJECT #		319
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Know what's below  
Call before you dig

BRIAN MARTINE  
PAVEMENT MANA

Signature & Date

SHEET 0



S:\PMD\_Engineering\_Shore Highway\_Engineering\PROJECTS\Lakewood Ranch\_Resturfacing.dwg, 11:47 AM Ken Lohrer, 10/9/91, 11x17

GENERAL

1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS BRIAN MARTINEAU, PAVEMENT MANAGER AND CAN BE REACHED AT (941) 708-7450, EXT. 7243.
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
3. 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.
4. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NATIONAL GEODETIC VERTICAL DATUM OF 1929", (NGVD '29).
5. 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.
6. 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.
7. 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.
8. 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.
9. ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
10. THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
11. 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.
12. 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.
13. 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 CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
14. 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.
15. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.
16. ALL SIGNING, STRIPING AND RPM PLACEMENT WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.

SAFETY

17. 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.
18. THE CONTRACTOR SHALL USE SHEET PILING SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
19. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
20. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

21. 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.
22. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
23. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL. THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.

29. 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.
30. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
31. 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.
32. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.
- RIGHT-OF-WAY**
33. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
34. 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.
35. 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.
36. 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.
37. 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. ROADWAY PLANS AND PROPOSED DESIGN ARE BASED ON TOPOGRAPHIC SURVEYS PROVIDED BY MANATEE COUNTY PROJECT MANAGEMENT AND ZOLLAR NAJJAR & SHROYER UNDER COUNTY PROJECT NO'S 334-6001060 AND 319-6045661. REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.
38. 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.
39. 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

40. 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 V.V.H. AND V.H. 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.
41. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, 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.
42. 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.
43. 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.
44. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/ROUNDATIONS, 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.
45. 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.
45. 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

46. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
47. 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 FACILITY AREAS AT NORMAL WATER ), TOP OF BANK AND ELEVATION (NWLs), AT HIGH WATER ELEVATION (HWL), ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
48. 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 A 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 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 ON-SITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL 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.

49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
55. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
56. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
57. THE CONTRACTOR SHALL REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON-SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.
58. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
59. 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 "T" AS SHOWN IN FDOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
60. 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 UNLESS IT IS DESIGNATED IN THE PLAN. ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.
61. 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.
62. **SLURRY WALL** - CONSTRUCTION OF THE SLURRY WALL SHOULD BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THE CONTRACTOR BY A GEOTECHNICAL SPECIALTY CONTRACTOR EXPERIENCED IN CONSTRUCTION OF CLAY SLURRY WALLS. CONTRACTOR SHOULD REVIEW GEOTECHNICAL REPORT, PLANS, AND RETAIN EXPERIENCED PERSONNEL TO CARRY OUT THE OPERATIONS, SAFETY, TESTING AND QUALITY CONTROL AS SPECIFIED. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TECHNICAL SPECIFICATIONS FOR ENGINEER'S APPROVED THAT COVER MATERIALS, EQUIPMENT, EXCAVATION OF THE WORK (I.E. SLURRY TRENCHING, KEY, CLEANING, TRENCH BOTTOM, BACKFILL MIXING & BACKFILL PLACEMENT), CLEAN-UP, SPILL CONTINGENCY PLAN, QUALITY CONTROL, AND TESTING. IN ADDITION, THE FOLLOWING SHALL BE SUPPLIED PRIOR TO START OF CONSTRUCTION
- A. SOIL-BENTONITE SLURRY MIX DESIGN AND TRIAL MIX REPORTS, INCLUDING MIX PROPORTIONS, DENSITY, MOISTURE CONTENT, GRADATIONS, AND HYDRAULIC CONDUCTIVITY SHALL BE PERFORMED.
- B. SPECIFICATIONS OF THE BATCH PLANT AND LAYOUTS SHOWING LOCATIONS OF EQUIPMENT, PONDS, TANKS, PUMPS, VALVES, HOSES AND SUPPLY LINES.
- C. SOURCE OF ALL IMPORTED MATERIAL, INCLUDING BENTONITE. SHIPMENT OF MATERIALS TO THE SITE SHALL BE ACCOMPANIED BY THE SHIPPER'S WRITTEN VERIFICATION OF THE QUALITY OR SPECIFICATION OF THE MATERIAL, A COPY OF WHICH SHALL BE RETAINED BY THE CONTRACTOR.
- D. CERTIFICATION OF BENTONITE QUALITY, SHOWING COMPLIANCE WITH API STANDARD 13A.
- E. CERTIFICATION OF QUALITY OF ANY ADMIXTURE.



LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE

DATE				
BY				
REVISION DESCRIPTION				
NO.				
PROJECT #	319-1			
SURVEY #	C			
SEC./TWN./RGE	00/0			
SCALE	1"			
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DRAWN	----- (			
CHECKED	----- (			
BRIAN MARTINEAU PAVEMENT MANAGER				
Signature & Date				
SHEET 0				



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BOX CULVERT DESIGN SPECIFICATIONS

64. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1998 EDITION AND APPROVED REVISIONS.

DESIGN LOADING

HS-20-44 LIVE LOAD, FUTURE WEARING SURFACE OF (15 LB/SF) AND ALL DEAD LOADS AS SHOWN ON THE PLANS.

DESIGN METHOD

LOAD FACTOR DESIGN

ENVIRONMENT

EXTREMELY AGGRESSIVE

MATERIALS

ALL MATERIALS SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007 EDITION & SUPPLEMENTS THERE TO)

ALLOWABLE SOIL BEARING

2,500 PSF

PRECAST BOX CULVERT

THE PRECAST BOX CULVERT SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR A TRIPLE-BARREL 4 FOOT X 8 FOOT STRUCTURE OR AN APPROVED EQUAL

SUBMITTALS

THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE PRECAST BOX CULVERT FOR THE ENGINEERS APPROVAL AND GEOTECHNICAL REPORTS FOR FOUNDATION DESIGN.

MITIGATION NOTES

65. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ENHANCED/ CREATED WETLANDS UNTIL PROJECT DRAINAGE AND GRADING IS COMPLETED AND ACCEPTED BY THE OWNER.

66. MAINTENANCE SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS. WETLAND BOUNDARY AND BUFFER AREAS SHALL BE CLEARLY DELINEATED ON SITE PRIOR TO INITIAL CLEARING AND GRUBBING ACTIVITIES. THE DELINEATION SHALL ENDURE THROUGHOUT THE CONSTRUCTION PERIOD AND BE READILY DISCERNIBLE TO CONSTRUCTION PERSONNEL. THE WETLAND (JURISDICTIONAL) AND BUFFER AREAS ARE TO BE IDENTIFIED IN THE FIELD WITH STAKES AND FLAGGED STRING LINES (STRING LINE 5' ABOVE GRADE WITH FLAGGING AT 10' INTERVALS) PRIOR TO COMMENCEMENT OF CLEARING AND GRUBBING. THE STRING LINE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL STAY OUT OF THE EXISTING WETLAND AND BUFFER AREAS EXCEPT WHERE PLANS CALL OUT SPECIFIC WORK TO BE PERFORMED.

RESTORATION

67. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.

68. 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.

69. 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 AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS LATEST REVISION.

70. 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.

71. 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

72. 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 BARRIERS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES AS APPROVED BY THE ENGINEER.

73. 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.

74. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.

75. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.

76. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON THE PLANS.

77. 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.

78. 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.

79. 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.

80. 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.

81. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.

82. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.

83. 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.

84. 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.

85. 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.

86. 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.

87. 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.

88. 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.

89. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

90. 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.

91. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.

92. 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.

93. 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).

94. ALL EXISTING TREES LOCATED WITHIN R/W LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

95. ALL EXISTING STORM DRAINAGE STRUCTURES SHALL BE REMOVED UNLESS OTHERWISE NOTED.

96. ALL EXISTING BUILDINGS SHALL REMAIN UNLESS OTHERWISE NOTED.

97. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS

CONTACTS

MANATEE COUNTY  
PUBLIC WORKS DEPT.  
INFRASTRUCTURE ENGINEERING  
SCOTT MAY P.E.  
1022 26TH AVENUE EAST  
BRADENTON, FL. 34208  
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FAX (941) 708-7431

TECO/PEOPLES GAS CO.  
DAN SHANAHAN  
8261 VICO COURT  
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FAX (941) 342-4011  
EMERGENCY 1-877-832-6911  
dshanahan@tecoenergy.com

SUNSHINE STATE ONE CALL OF  
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1-(800) 432-4770

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1253 12TH AVENUE EAST  
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FAX (941) 723-4444  
EMERGENCY 1-800-4-OUTAGE  
Greg.Coker@fpl.com

FLORIDA POWER & LIGHT  
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GARY PETERSON  
15430 ENDEAVOR DRIVE  
JUPITER, FL. 33478  
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(941) 748-0747 EXT. 1342  
FAX (941) 750-9364  
hans\_roese@doh.state.fl.us

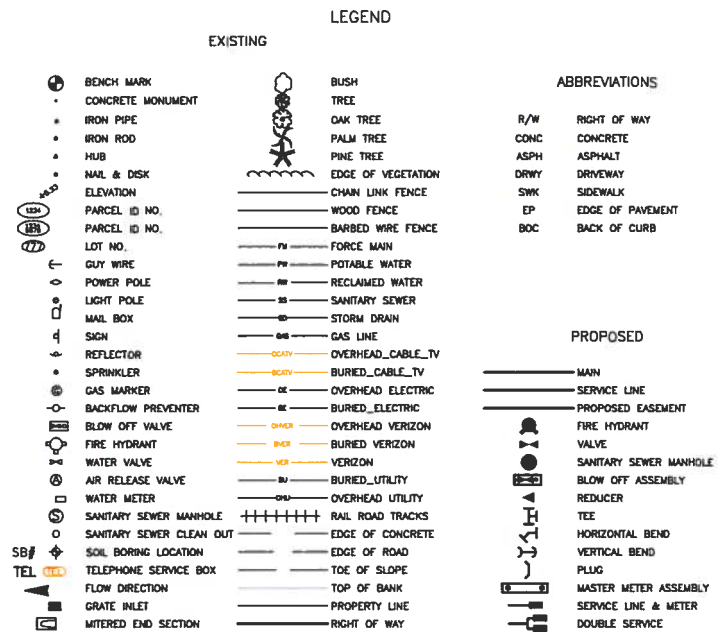
SOUTHWEST FLORIDA WATER  
MANAGEMENT DISTRICT  
SARASOTA SERVICE OFFICE  
STEVE LOPES P.E.  
6750 FRUITVILLE ROAD  
SARASOTA, FL. 34240  
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FLORIDA GAS TRANSMISSION  
SAFETY HARBOR TEAM  
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TAMPA, FL. 33634  
CHRIS LEE  
(813) 466-3327  
CELL (727) 639-7512  
christopher.lee@sug.com

CHARTER COMMUNICATIONS  
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FAX (813) 470-5993

PEACE RIVER ELECTRIC  
COOPERATIVE, INC.  
P.O. BOX 1310  
WACHULA, FL. 33873  
ERIN RUHTZ  
(863) 767-4660  
erin.ruhtz@preco.coop



LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE

REVISION DESCRIPTION	BY	DATE
NO.		
PROJECT #	319-1	
SURVEY #		
SEC./TWN./RGE	00/0	
SCALE	1"	
	BY	
SURVEYED	-----	
DESIGNED	-----	
DRAWN	-----	
CHECKED	-----	
BRIAN MARTINEZ		
PAVEMENT MANAGER		
Signature & Date		
SHEET 0		

**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**

LAKEWOOD RANCH BLVD REBASE					
LINE	PAY ITEM				EST.
NO.	NO.	DESCRIPTION		UNIT	QUANTITY
1.	0101-1	MOBILIZATION		LS	1
2.	0102-1	MAINTENANCE OF TRAFFIC		LS	1
3.	104-18	INLET PROTECTION		EA	142
4.	120-1	REGULAR EXCAVATION		CY	100
5.	120-2	BORROW EXCAVATION		CY	100
6.	0327-70-5	2" MILL OF ASPHALT		SY	55,000
7.	MC-1	8" DEPTH COLD IN PLACE		SY	37,250
8.	MC-1	LIQUID ASPHALT EMULSION		GAL	68,789
9.	MC-1	ADDITIVES		TON	316
10.	0327-70-1	1" MILL OF COLD IN PLACE BASE COURSE		SY	37,250
11.	0331-1-MC	2" TYPE S-1 ASPHALT CONCRETE		TON	5,940
12.	0331-1-MC	1" TYPE S-III ASPHALT CONCRETE		TON	2,970
13.	660-1-1	FURNISH AND INSTALL LOOP TYPE B		EA	4
14.	0710-11-101	6" PAINTED SOLID WHITE		GM	13
15.	0710-11-131	6" PAINTED SKIP WHITE		LF	800
16.	0711-16-102	6" THERMOPLASTIC SOLID WHITE		GM	7
17.	0711-11-131	6" THERMOPLASTIC SKIP WHITE		LF	800
18.	0711-11-160	THERMOPLASTIC WHITE BIKE		EA	95
19.	0711-11-170	THERMOPLASTIC WHITE ARROW		EA	95

NO.	REVISION DESCRIPTION	BY	DATE
	PROJECT #	319-6C	
	SURVEY #	0C	
	SEC./TWN./RGE	00/00	
	SCALE	1"=	
	SURVEYED	----	0C
	DESIGNED	----	0C
	DRAWN	----	0C
	CHECKED	----	0C

**BRIAN MARTINEAL**  
**MOVEMENT MANAGER**

10-A  
Signature & Date

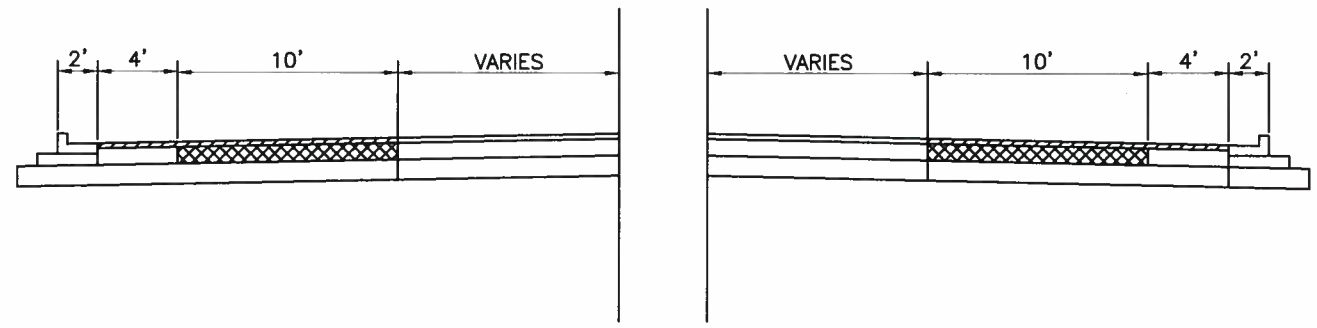


PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICE  
1022 26th Avenue East, Bradenton, FL 34205

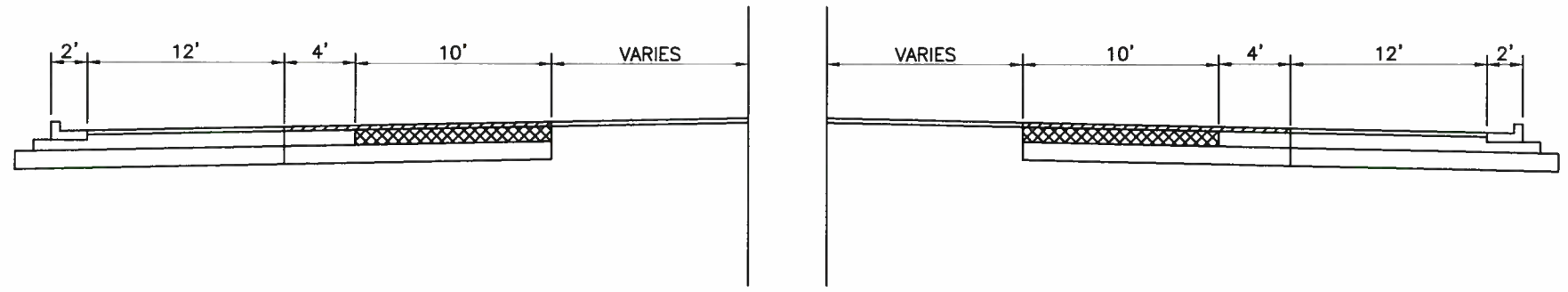
LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE

- \* 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

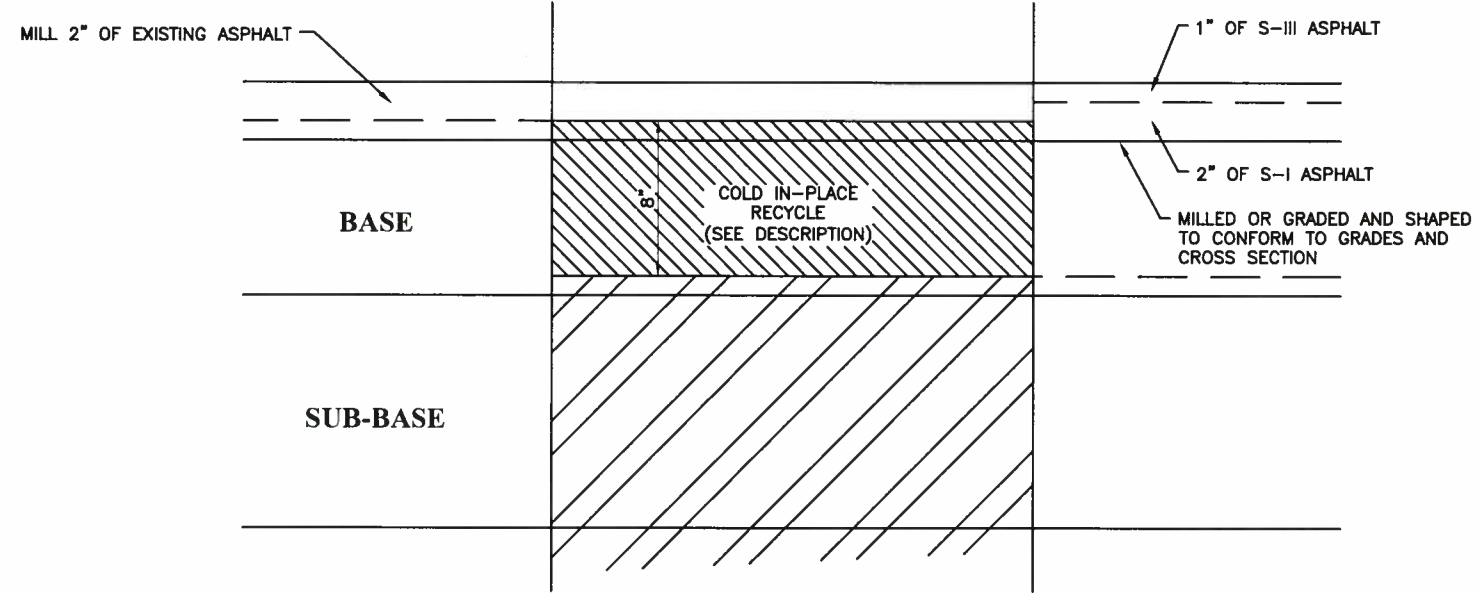
WEST LAKEWOOD RANCH BLVD SECTION EAST



WEST LAKEWOOD RANCH BLVD 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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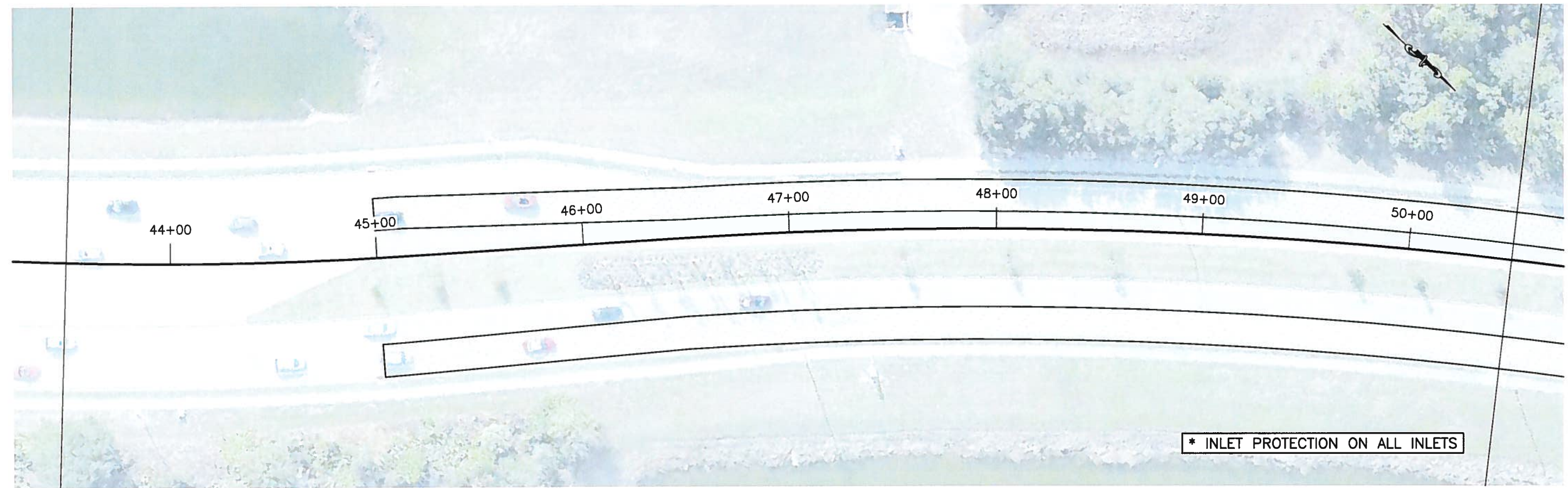
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SEC./TWN./RGE	00/00/00
SCALE	1"=1'
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SURVEYED	----- 00
DESIGNED	----- 00
DRAWN	----- 00
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BRIAN MARTINEAU  
PAVEMENT MANAGER

Signature & Date  
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**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**



\* INLET PROTECTION ON ALL INLETS

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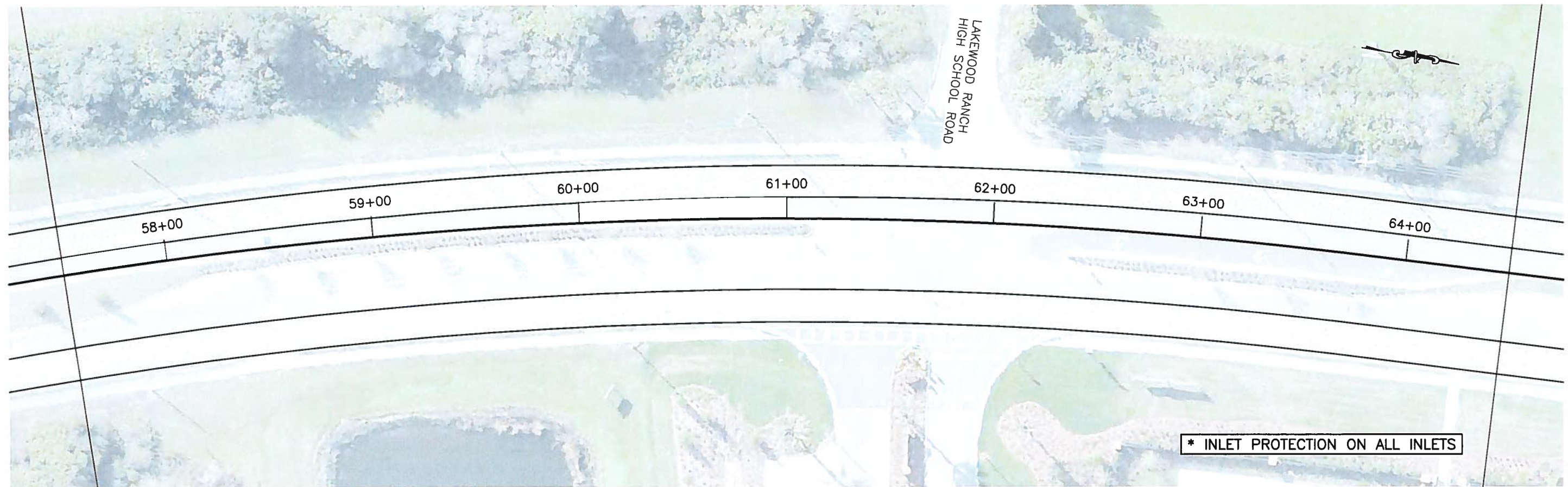
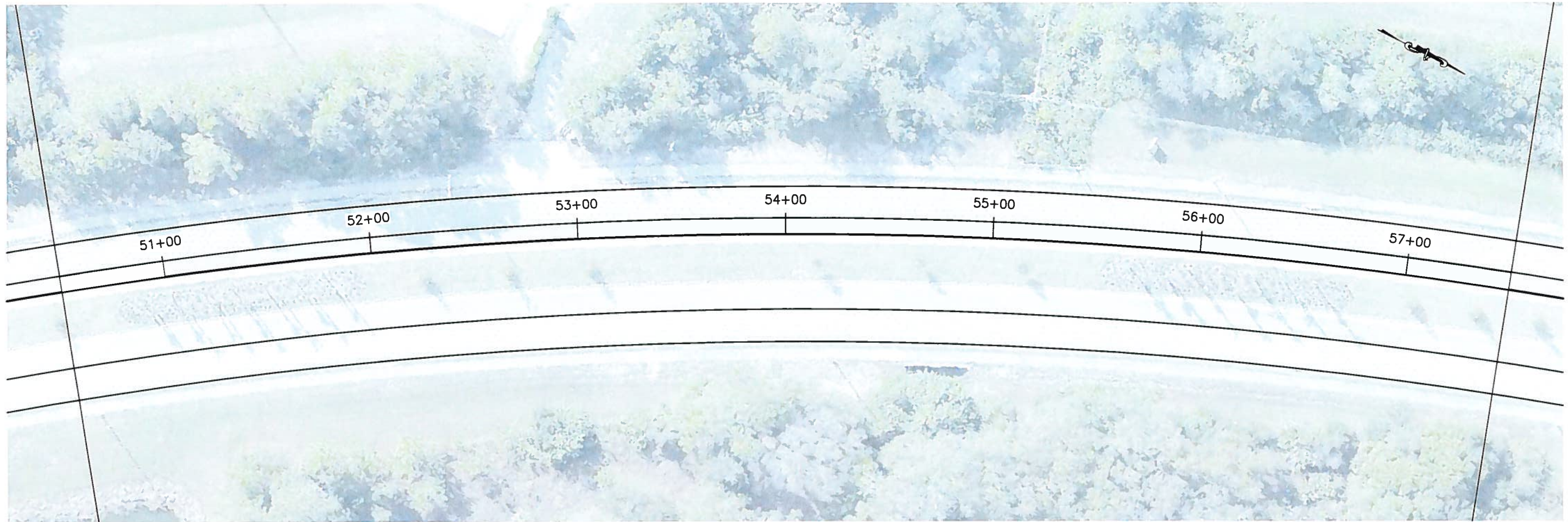
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SEC./TWN./RGE	00/0
SCALE	1"
SURVEYED	-----
DESIGNED	-----
DRAWN	KHL
CHECKED	-----


BRIAN MARTINEZ  
PAVEMENT MANAGER

*Bm 10-4-*  
Signature & Date  
**SHEET 0**



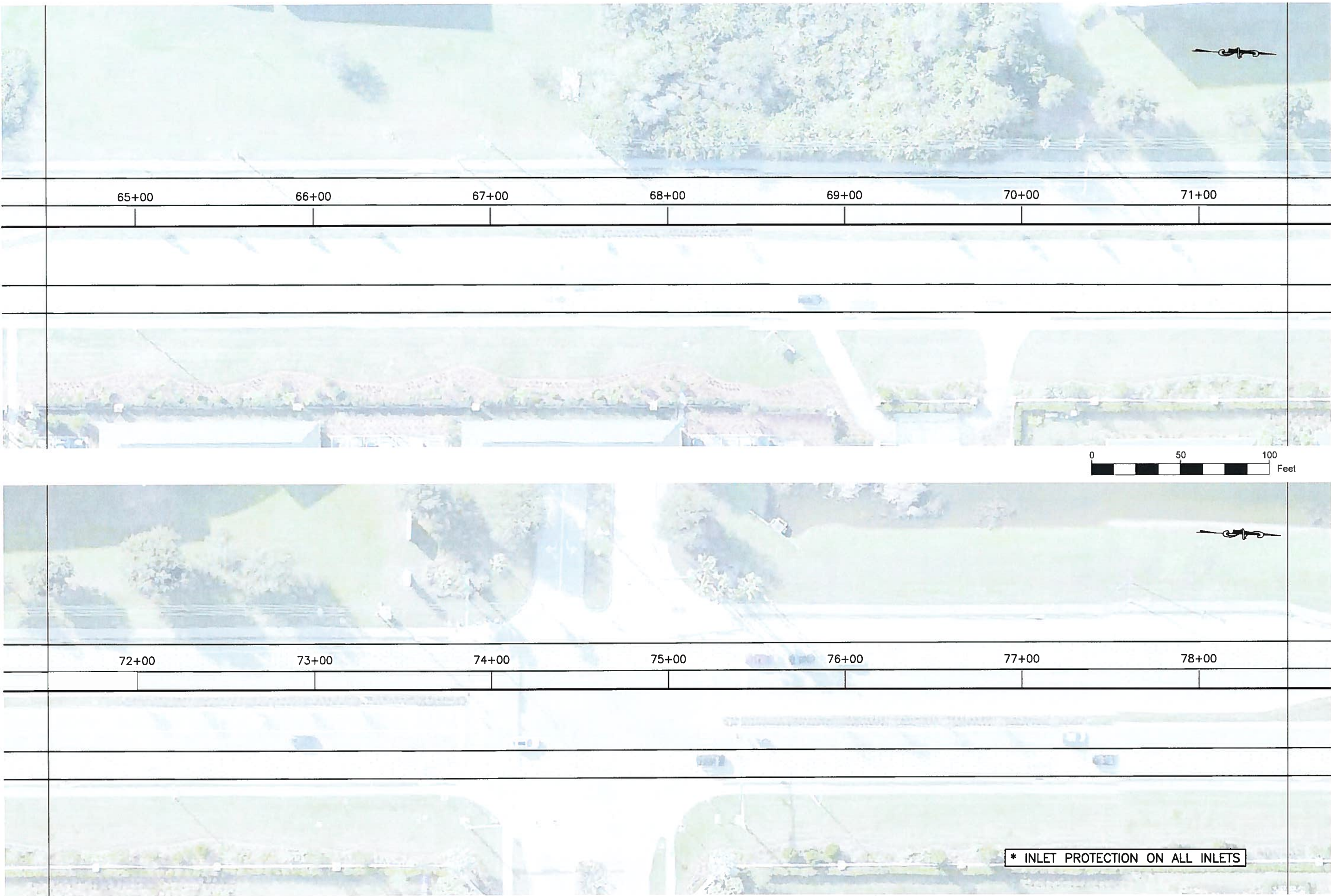
LAKWOOD RANCH BLVD REBASE  
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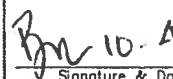
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SCALE			1" =	
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BRIAN MARTINEZ				
PAVEMENT MANAC				
				
Signature & Do				
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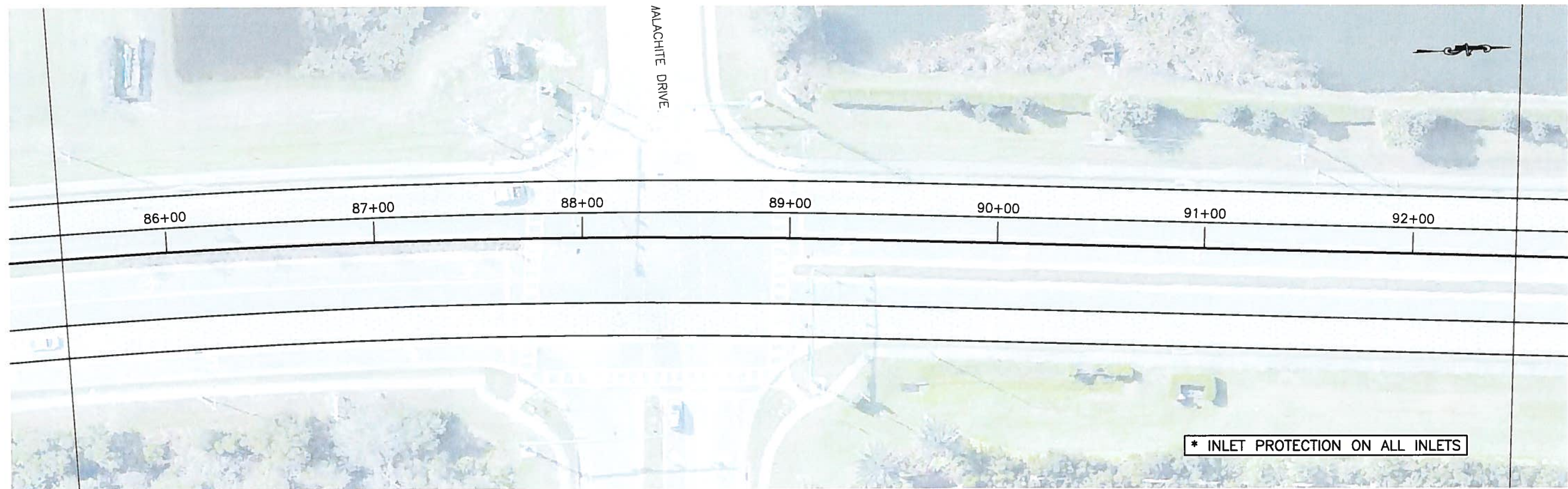
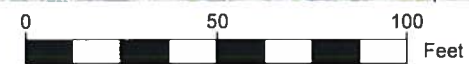
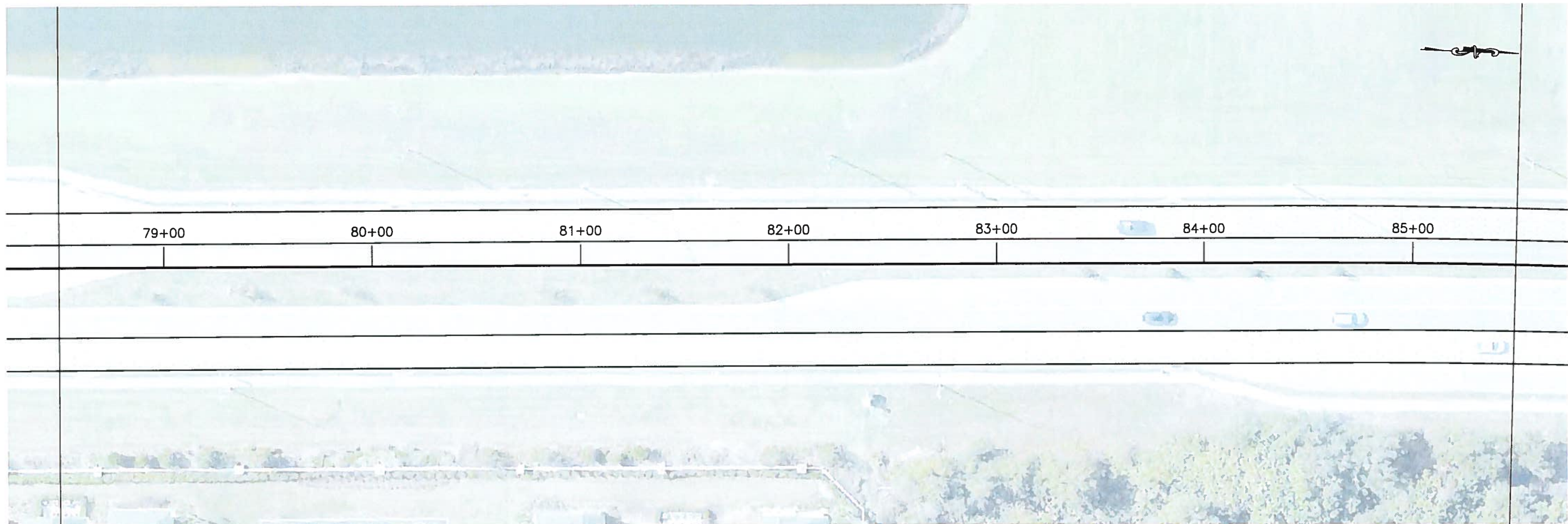


**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
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NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	000-1		
SURVEY #			
SEC./TWN./RGE	00/0		
SCALE	1"		
SURVEYED	-----	BY	
DESIGNED	-----		
DRAWN	KHL		
CHECKED	-----		
BRIAN MARTINEZ PAVEMENT MANAGER			
 10.10.18 Signature & Date			
SHEET 0			



**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**



**\* INLET PROTECTION ON ALL INLETS**

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	000-1
SURVEY #	
SEC./TWN./RGE	00/0
SCALE	1" = 100'
SURVEYED	-----
DESIGNED	-----
DRAWN	KHL
CHECKED	-----

BRIAN MARTINEZ  
PAVEMENT MANAGER

*Brian Martinez*  
Signature & Date  
**SHEET 0**

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**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**

NO.	REVISION DESCRIPTION	BY	DATE

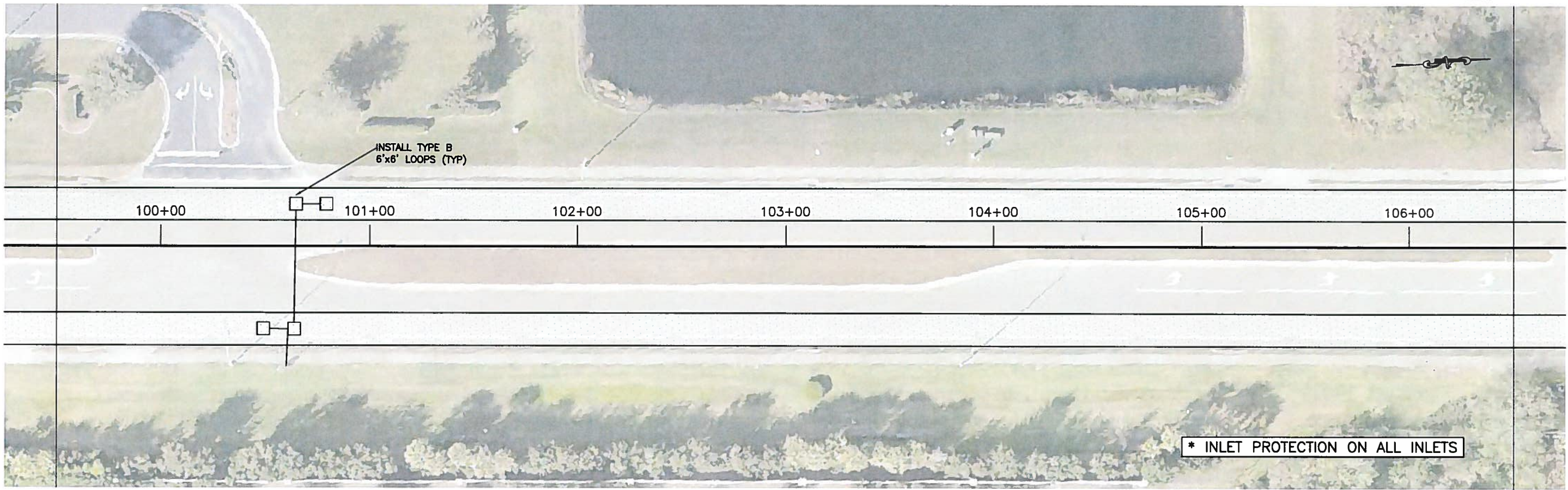
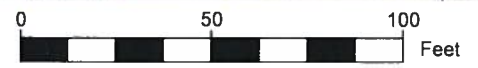
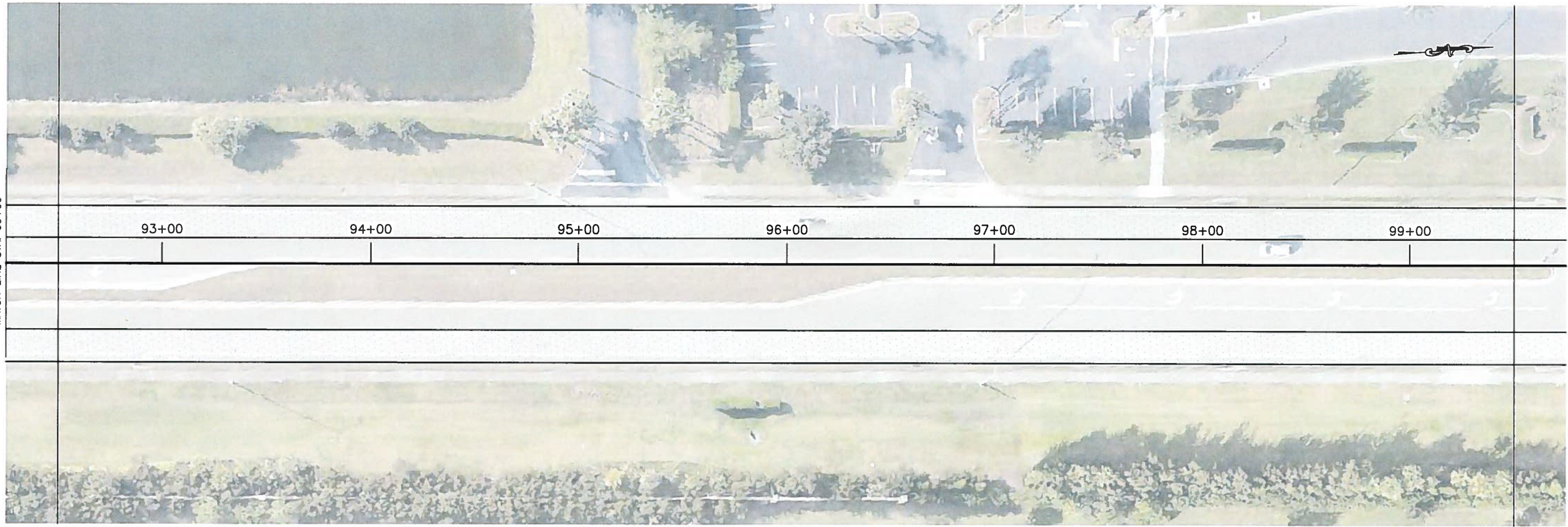
PROJECT #	000-60
SURVEY #	00
SEC./TWN./RGE	00/00S
SCALE	1"=50'

SURVEYED	----	00
DESIGNED	----	00
DRAWN	KHL	05
CHECKED	----	00

BRIAN MARTINEAU  
PAVEMENT MANAGER

*Bm 10-A-1*  
Signature & Date  
**SHEET 10**

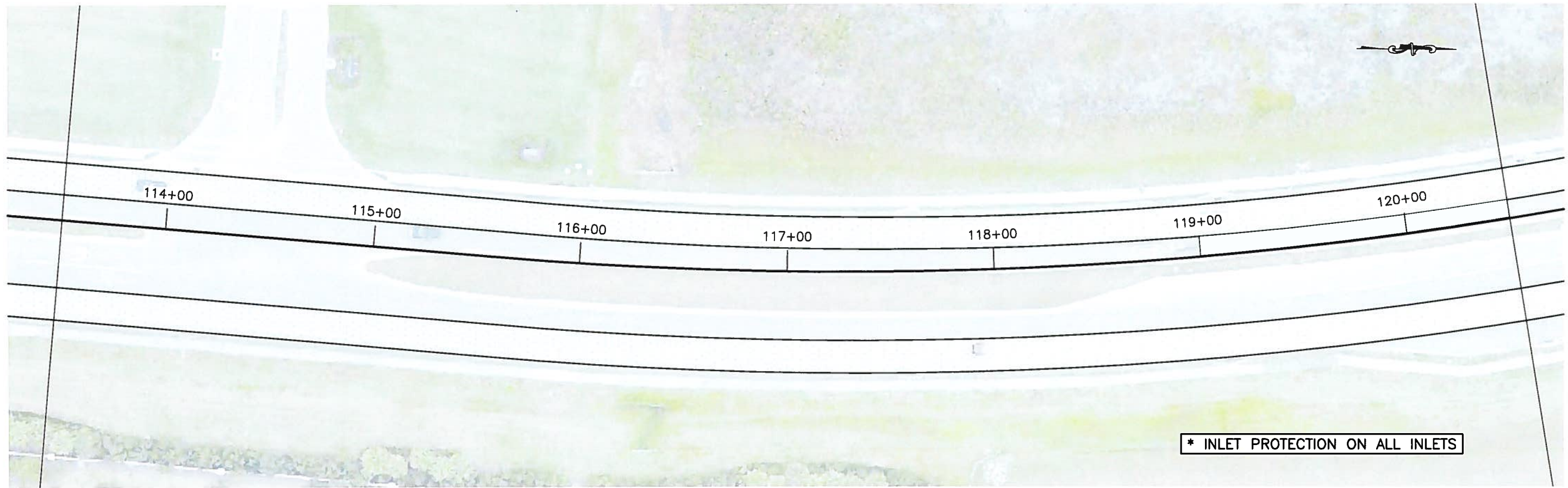
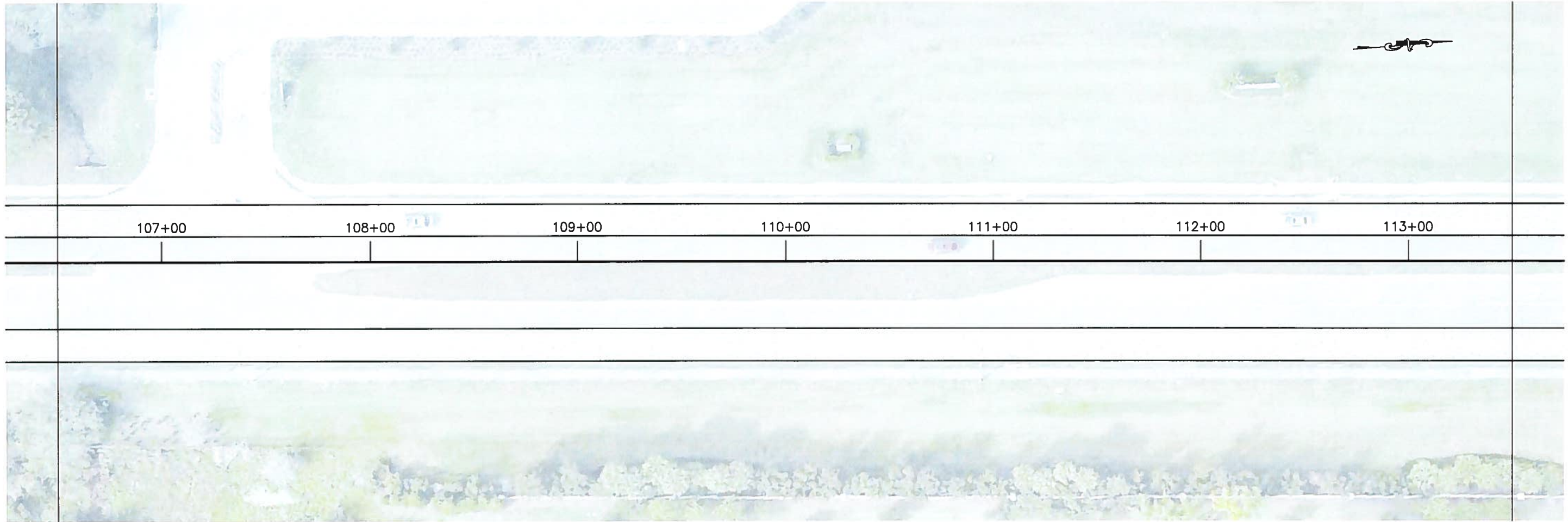
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**\* INLET PROTECTION ON ALL INLETS**

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\* INLET PROTECTION ON ALL INLETS

**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**

NO.	REVISION	DESCRIPTION	BY	DATE
PROJECT #	000-1			
SURVEY #	C			
SEC./TWN./RGE	00/0			
SCALE	1"			
	BY			
SURVEYED	-----	C		
DESIGNED	-----	C		
DRAWN	KHL	C		
CHECKED	-----	C		

BRIAN MARTINEZ  
PAVEMENT MANAGER

  
Signature & Date  
**SHEET 1**

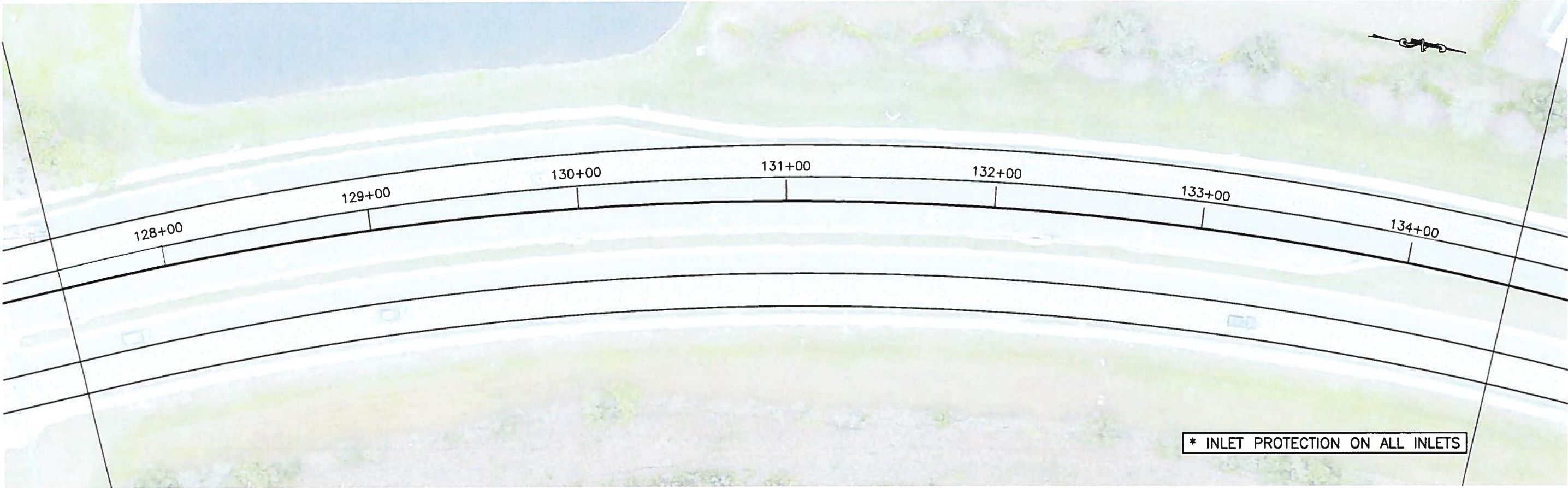
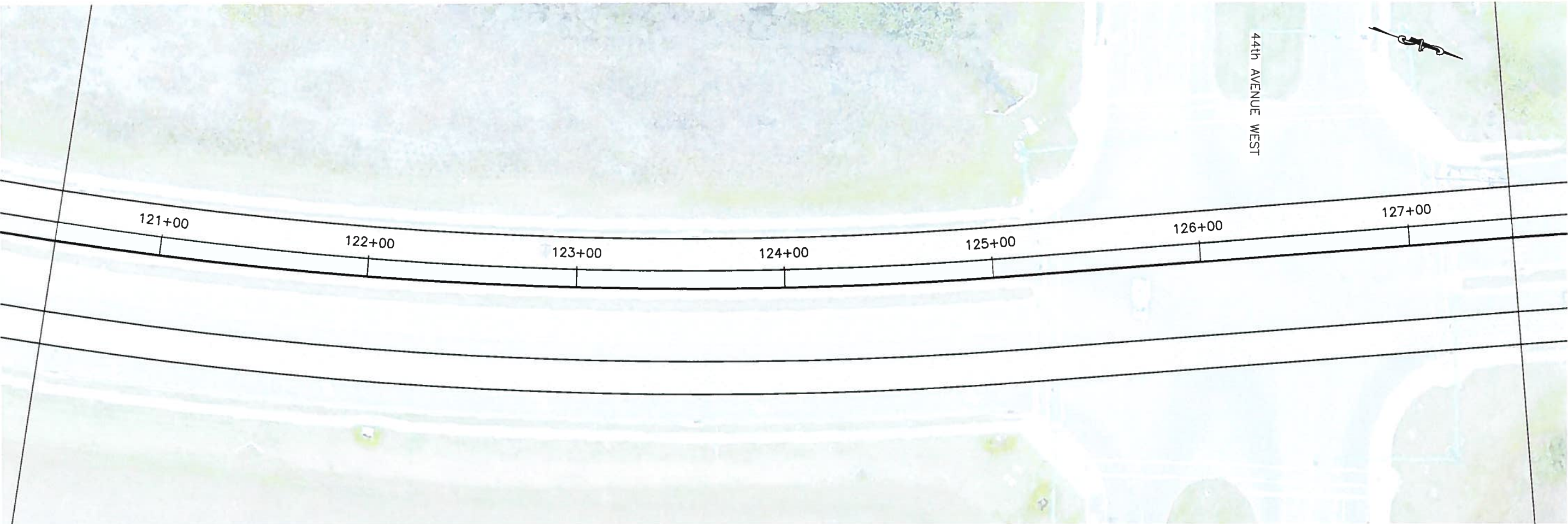


LAKEWOOD RANCH BLVD REBASE
   
 AND RESURFACING
   
 RANGELAND PARKWAY TO
   
 NORTH OF ARCADE PLACE

NO.	REVISION	DESCRIPTION	BY	DATE
PROJECT #	000-4			
SURVEY #	C			
SEC./TWN./RGE	00/0			
SCALE	1"			
	BY			
SURVEYED	-----	C		
DESIGNED	-----	C		
DRAWN	KHL	C		
CHECKED	-----	C		

BRIAN MARTINEZ
   
 PAVEMENT MANAGER

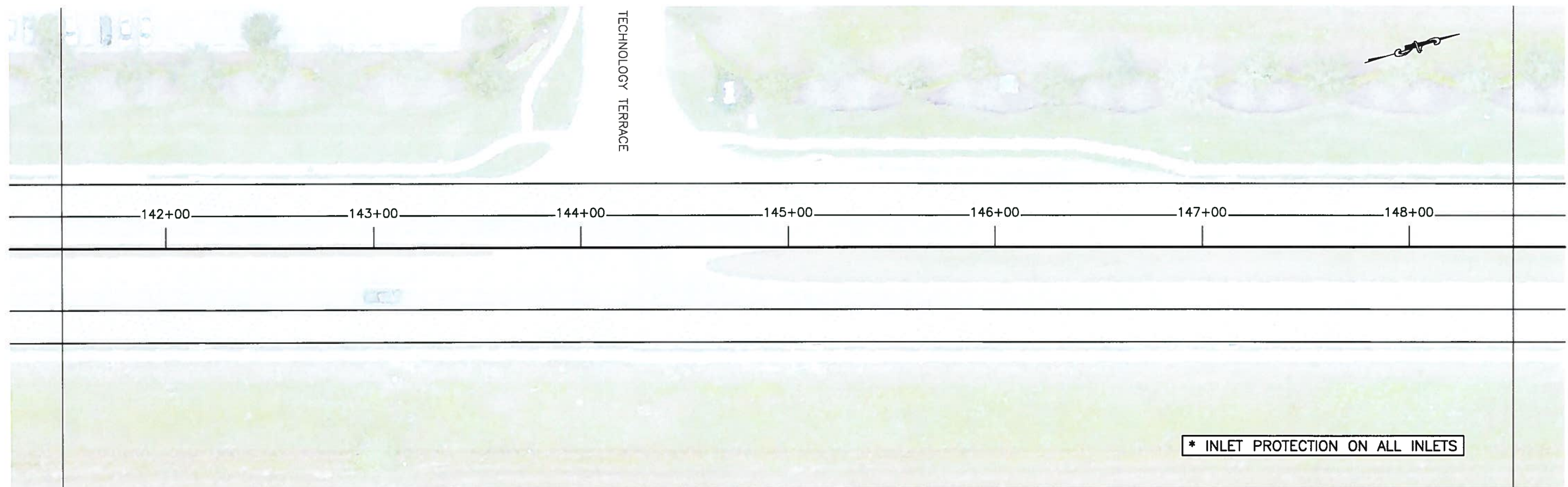
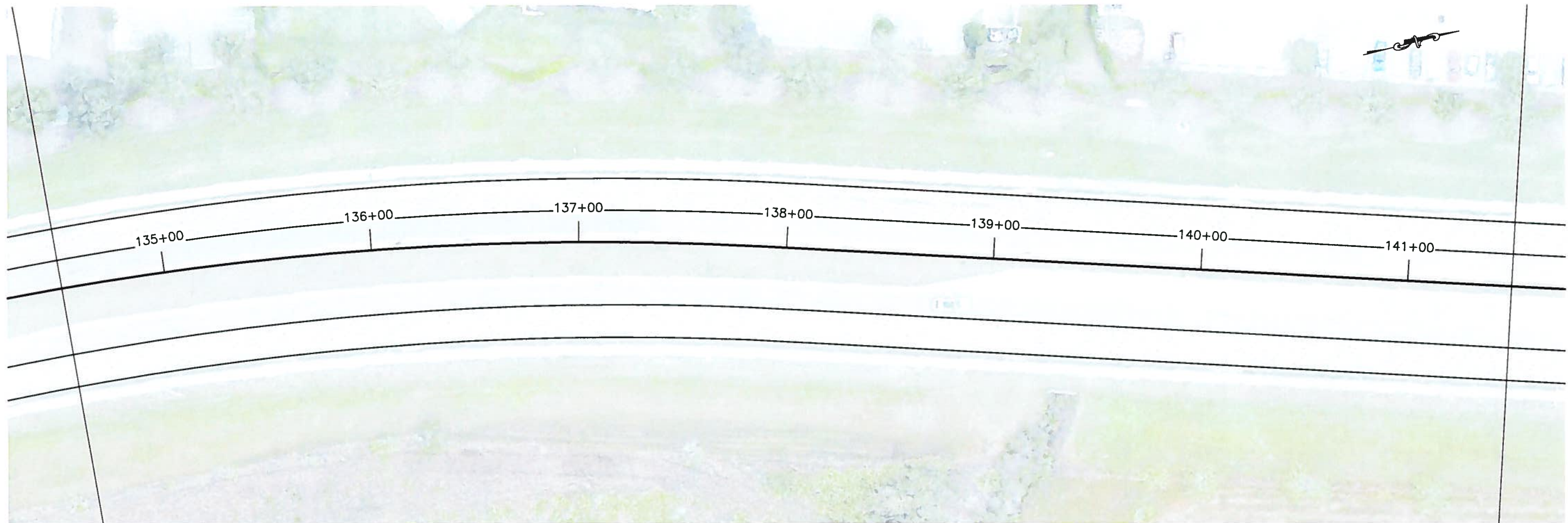

  
 Signature & Date
   
 SHEET 1



\* INLET PROTECTION ON ALL INLETS



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PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Breckenridge, CO 80424

**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	000-1
SURVEY #	
SEC./TWN./RGE	00/0
SCALE	1"
SURVEYED	----
DESIGNED	----
DRAWN	KHL
CHECKED	----

BRIAN MARTINEZ  
PAVEMENT MANAGER

*Brian Martinez*  
Signature & Date



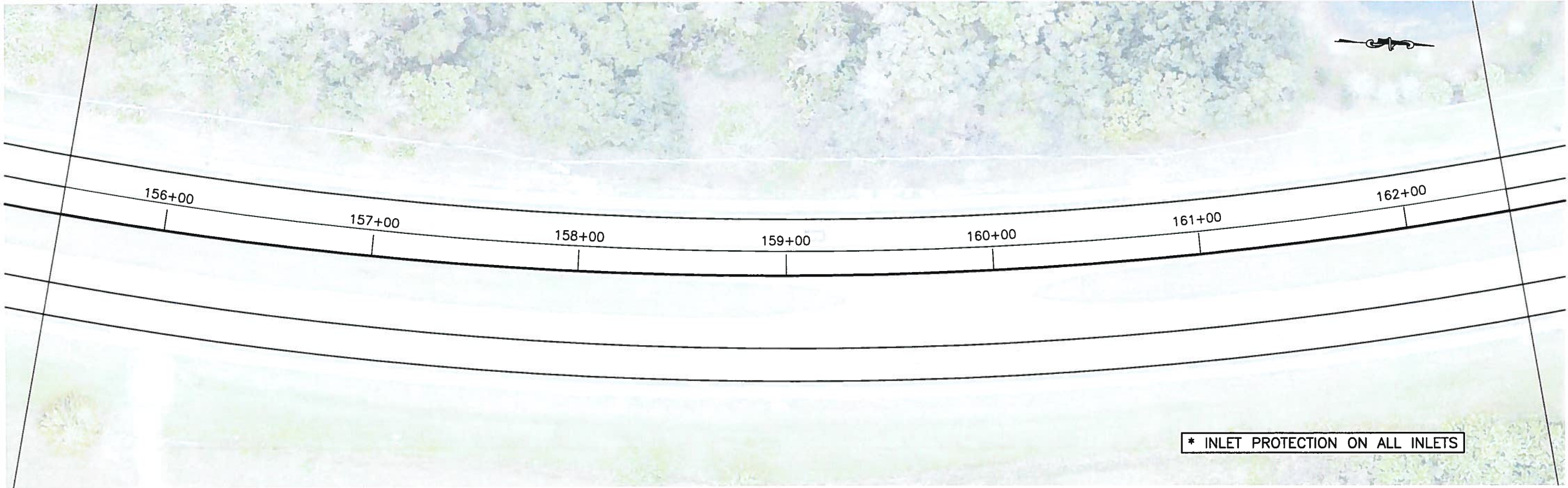
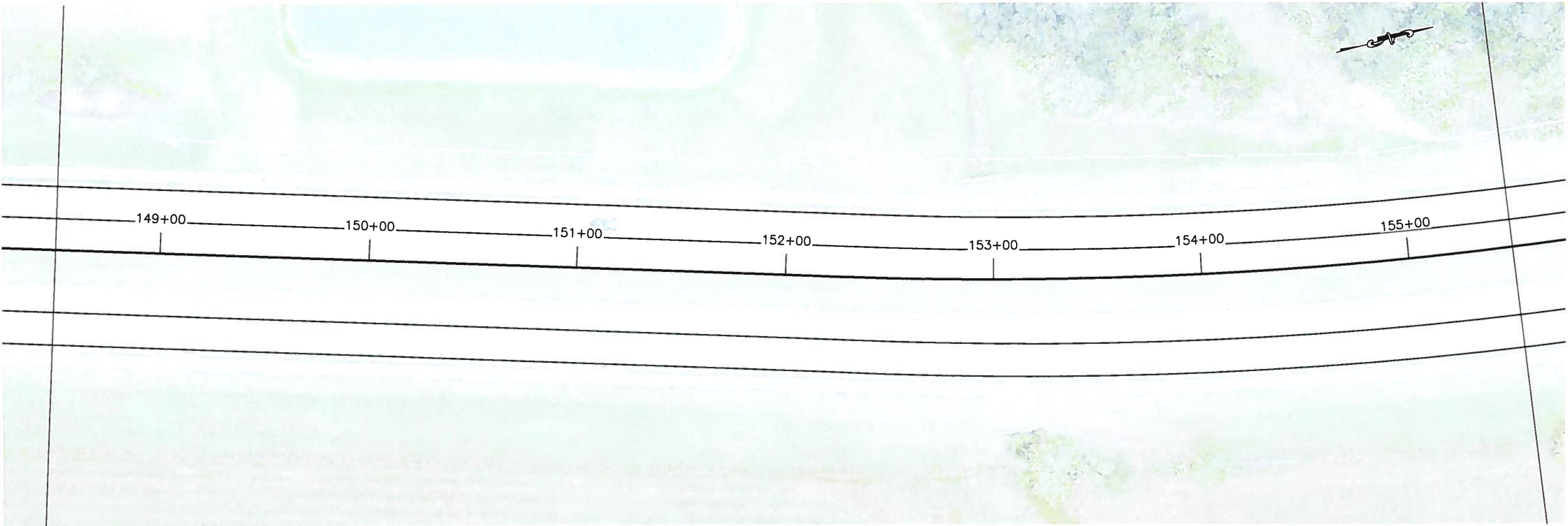
LAKEWOOD RANCH BLVD REBASE
   
 AND RESURFACING
   
 RANGELAND PARKWAY TO
   
 NORTH OF ARCADE PLACE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	000-1
SURVEY #	
SEC./TWN./RGE	00/0
SCALE	1"
BY	
SURVEYED	
DESIGNED	
DRAWN	KHL
CHECKED	

BRIAN MARTINEZ
   
 PAVEMENT MANAGER


  
 Signature & Date
   
 SHEET 1



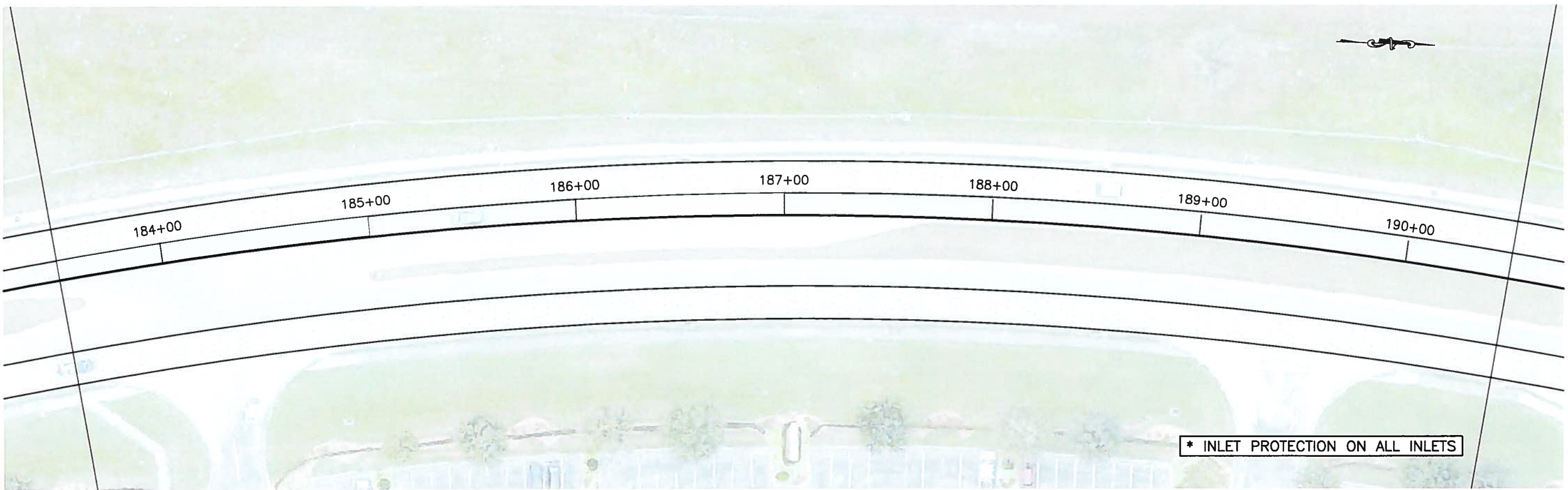
\* INLET PROTECTION ON ALL INLETS







**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**



**\* INLET PROTECTION ON ALL INLETS**

NO.	REVISION	DESCRIPTION	BY	DATE

PROJECT #	000-4
SURVEY #	C
SEC./TWN./RGE	00/0
SCALE	1" = 40'
SURVEYED	-----
DESIGNED	-----
DRAWN	KHL
CHECKED	-----

BRIAN MARTINEZ  
PAVEMENT MANAGER

*Bm 10-A*  
Signature & Date

**SHEET 1**

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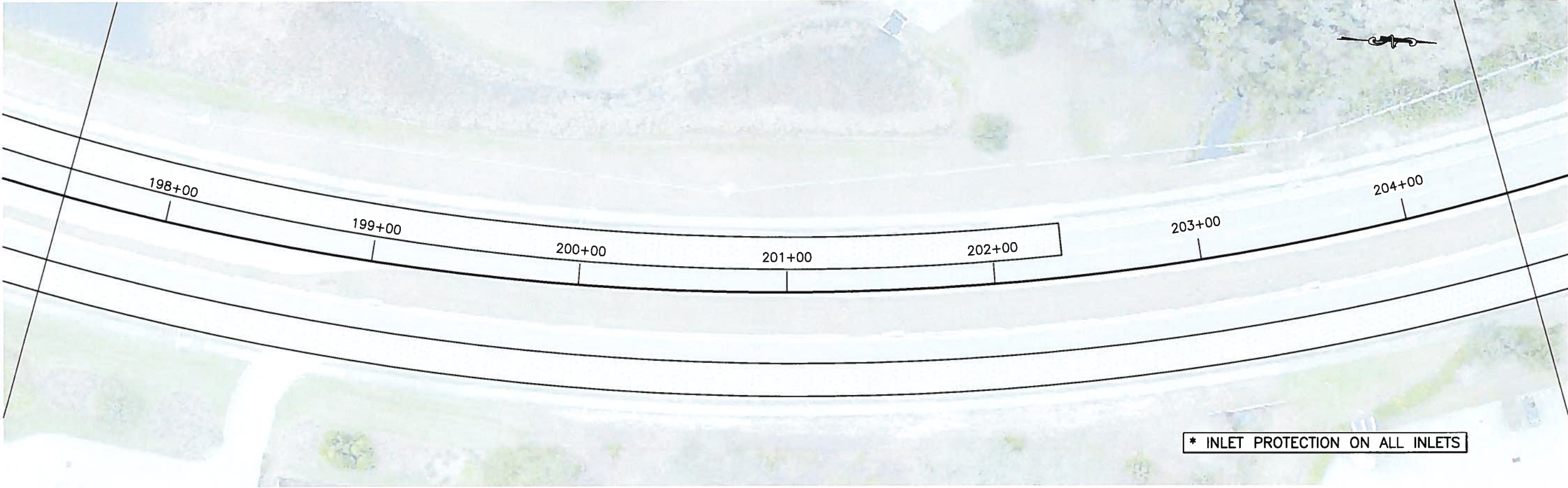
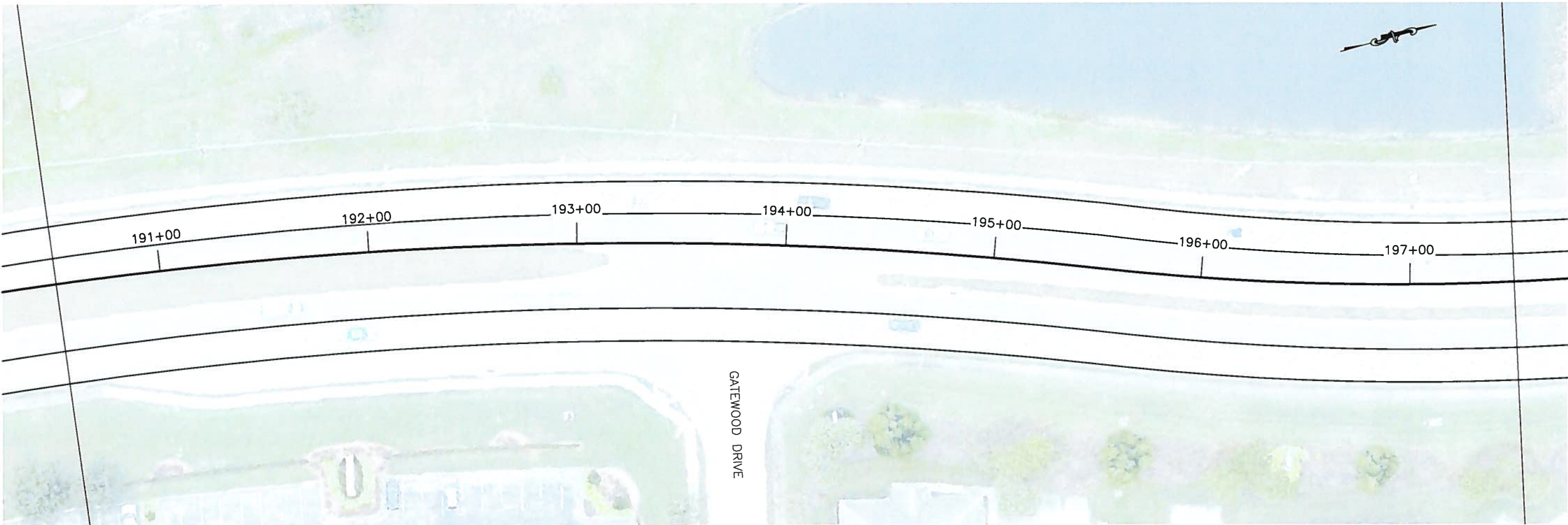


LAKEWOOD RANCH BLVD REBASE
   
 AND RESURFACING
   
 RANGELAND PARKWAY TO
   
 NORTH OF ARCADE PLACE

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	000-000-000		
SURVEY #			
SEC./TWN./RGE	00/00/00		
SCALE	1"=50'		
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DRAWN	KHL		
CHECKED	-----		

BRIAN MARTINEZ
   
 PAVEMENT MANAGER

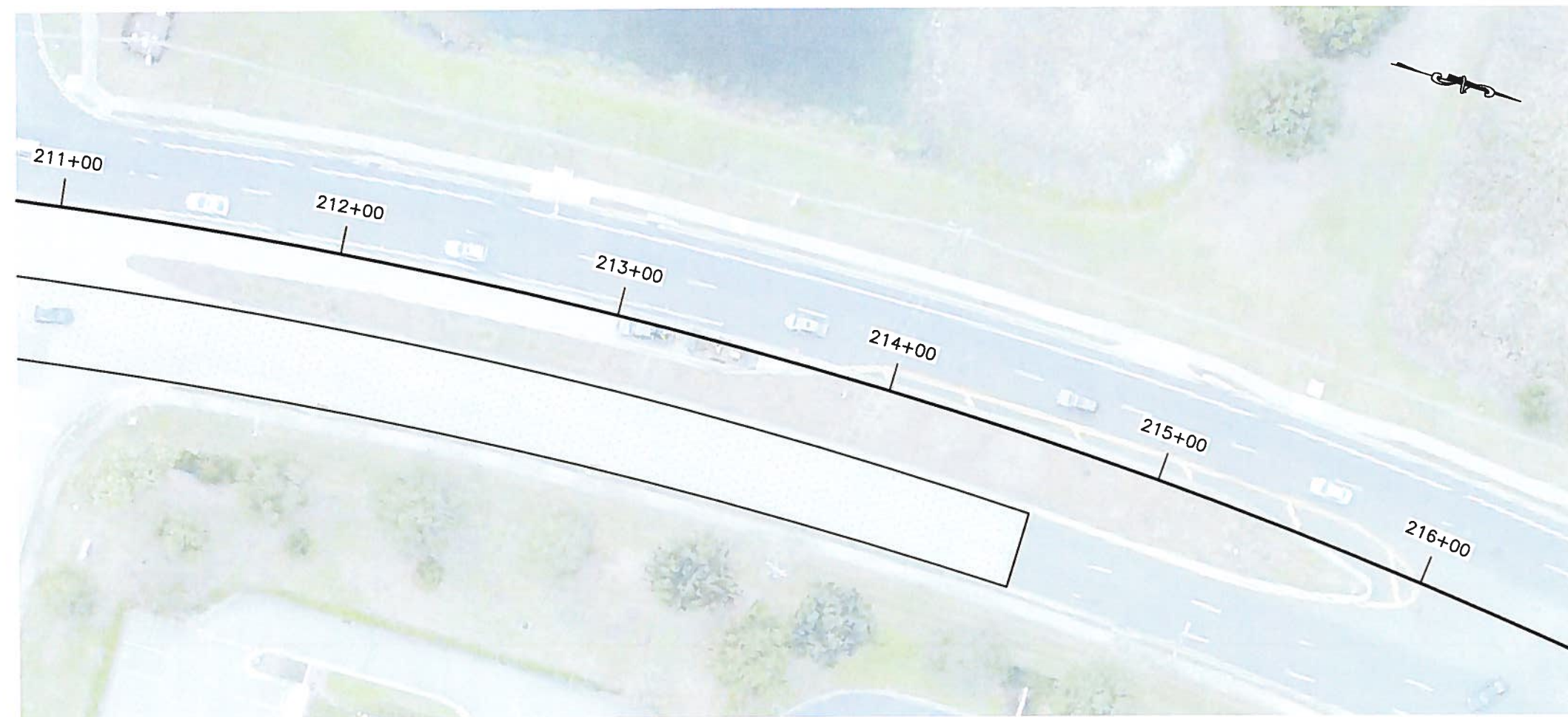
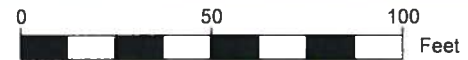
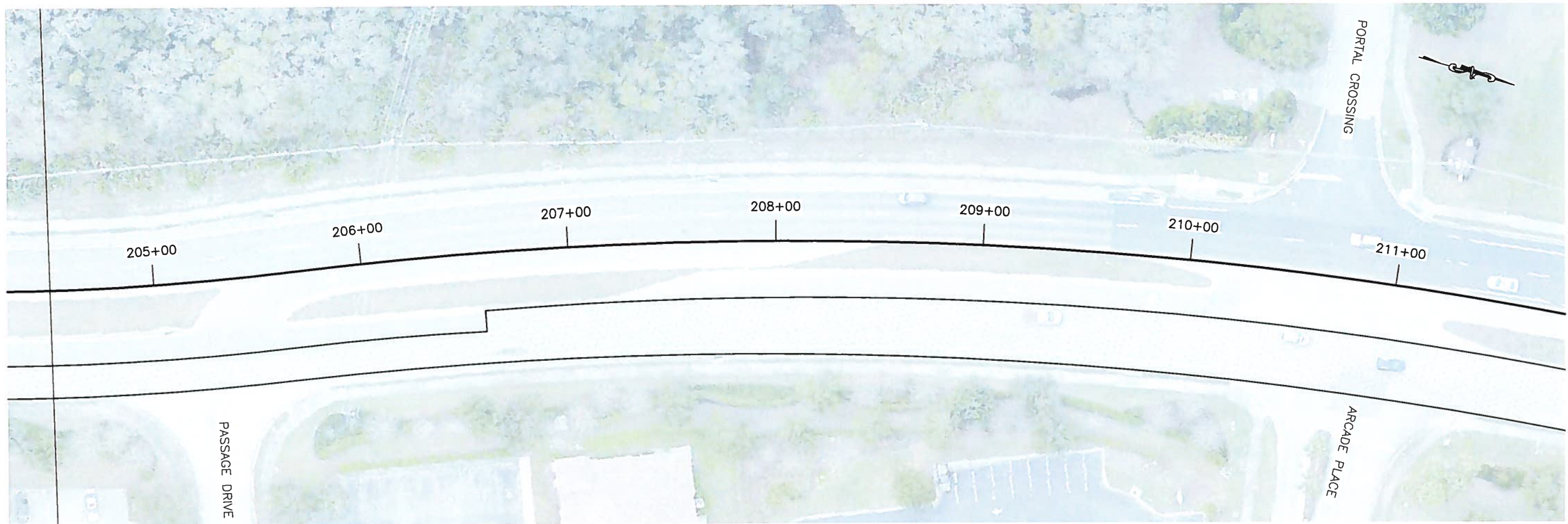
Signature & Date
   
 SHEET 1



\* INLET PROTECTION ON ALL INLETS



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\* INLET PROTECTION ON ALL INLETS



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ENGINEERING SERVICES  
1022 26th Avenue East, Breckenridge, CO 80424

LAKWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	000-
SURVEY #	
SEC./TWN./RGE	00/C
SCALE	1"
SURVEYED	----
DESIGNED	----
DRAWN	KHL
CHECKED	----

BRIAN MARTINEZ  
PAVEMENT MANAGER

Bm 10-A  
Signature & Date





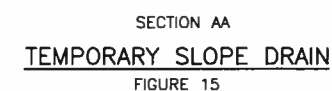
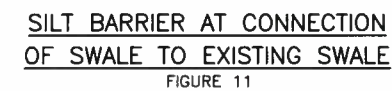
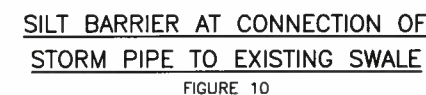
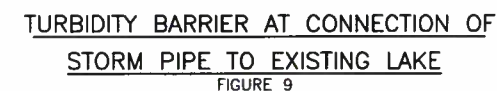
TYPICAL SILT FENCE  
FIGURE 2



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



SYNTHETIC BALE PROTECTION AROUND  
INLETS OR SIMILAR STRUCTURES  
FIGURE 7



**Manitoulin County**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICE  
1022 26th Avenue East, Bradenton

**LAKEWOOD RANCH BLVD REBASE  
AND RESURFACING  
RANGELAND PARKWAY TO  
NORTH OF ARCADE PLACE**

DATE					
DT					
REVISION DESCRIPTION					
NO.					
PROJECT #	319-1				
SURVEY #	(				
EC./TWN./RGE	00/0				
SCALE	1"				
	By				
SURVEYED	----	(			
DESIGNED	----	(			
DRAWN	----	(			
CHECKED	----	(			
BRIAN MARTINEZ/ PAVEMENT MANAGER					

3 m 10-A  
Signature & Date

SHEET 1