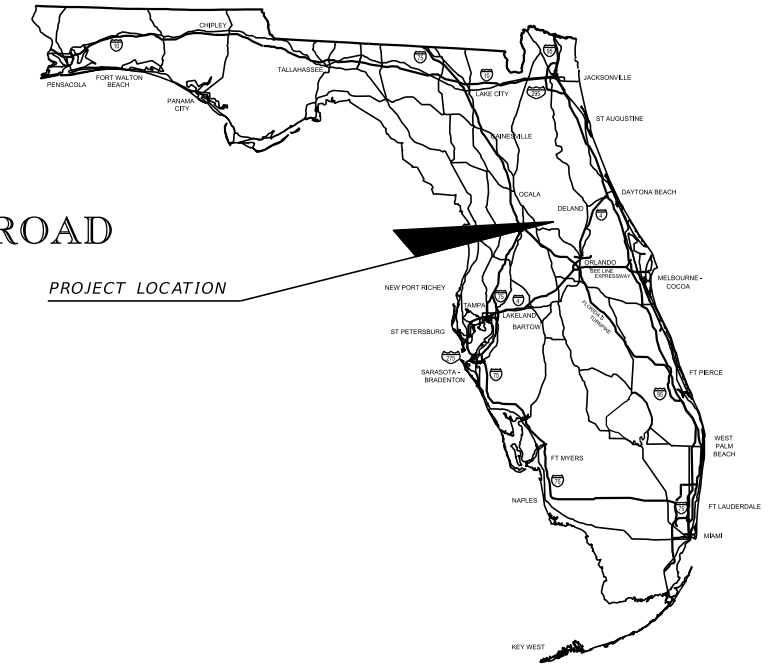


COMPONENT OF CONTRACT PLAN SET

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SR 429 WEKIVA PARKWAY FROM NORTH OF S.R. 500 (U.S. 441) TO NORTH OF PONKAN ROAD

ORANGE COUNTY WEKIVA PARKWAY-PROJECT NUMBER: 429-202 SIGNING AND PAVEMENT MARKING PLANS



CENTRAL FLORIDA EXPRESSWAY AUTHORITY BOARD MEMBERS

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PLANS PREPARED BY:



HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400 LAKE MARY, FL 32746 PHONE NO. (407) 805-0355 CONTRACT NO. C-8F86 VENDOR NO. VF-431623092001 CERT. OF AUTH. NO. 6500

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

WEKIVA PARKWAY - 429-202 APPROVED FOR CONSTRUCTION MAY 2015

Table with 2 columns: DATE, DESCRIPTION. Title: KEY SHEET REVISIONS

SIGNING AND PAVEMENT MARKING PLANS ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E

P.E. NO.: 58703

SHEET NO.

S-1

CFX PROJECT MANAGER: GLENN PRESSIMONE, P.E

HNTB PROJECT MANAGER: G. JOHN HORNBECK, P.E

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

Table with 2 columns: SHEET NO., SHEET DESCRIPTION. Includes items like KEY SHEET, TABULATION OF QUANTITIES, GENERAL NOTES, PROJECT LAYOUT SHEETS, PLAN SHEETS, etc.

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2014, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2014, AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01/01/14 For Design Standards modifications click on "Design Standards" at the following web site: http://www.dot.state.fl.us/rddesign/DS/14/Rev.shtm

TABULATION OF QUANTITIES

Default: \$SHEET SIZES \$SCALE SHORTS \$PLT DRVS \$PEN TAB \$SHEET SIZE \$SCALE \$PLT DRVS \$PEN TAB

Table with columns: PAY ITEM NO., DESCRIPTION, UNIT, SHEET NUMBERS (S-32 to S-41), TOTAL THIS SHEET (PLAN, FINAL), GRAND TOTAL (PLAN, FINAL), REF. SHEET.

REVISIONS table with columns DATE, DESCRIPTION, DATE, DESCRIPTION. Includes HNTB logo, CENTRAL FLORIDA EXPRESSWAY AUTHORITY information, ROAD NO. SR 429, PROJECT NO. 429-202, and SHEET NO. 5-4.

Default
 \$SHEET SIZES
 \$SCALE SHORTS

MODEL:
 SHEET SIZE:
 PLOT SCALE:

SIGNING GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL SIGNS. SHOP DRAWINGS SHALL INCLUDE VHB CALCULATIONS FOR ALL STANDARD AND NON-STANDARD GROUND MOUNTED SIGNS, SINGLE AND MULTI-POST.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED. ANY SIGNS SCHEDULED TO BE RELOCATED OR TO REMAIN THAT ARE DAMAGED DURING THE CONSTRUCTION PROCESS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL MAINTAIN ALL EXISTING HOMELAND SECURITY SHELTER SIGNING THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION.
4. ALL EXISTING SIGNS ARE TO REMAIN VISIBLE UNTIL SUCH TIME AS THE PROPOSED SIGN ASSEMBLY INSTALLATION IS COMPLETED.
5. EXCEPT WHERE NOTED, CODE NUMBER AND SIGN LISTED ARE STANDARD AS SHOWN IN MUTCD 2009 AND STANDARD HIGHWAY SIGNS MANUAL, FHWA, 2004 WITH THE 2012 SUPPLEMENT.
6. THE CONTRACTOR SHALL ESTABLISH, STAKE AND PAINT SIGN LOCATIONS WITH THE USE OF A FLORIDA REGISTERED LAND SURVEYOR. IF THE STAKES AND/OR PAINTED MARKS ARE OBLITERATED DURING THE CONSTRUCTION PROCESS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE SIGN LOCATIONS RE-ESTABLISHED BY A FLORIDA REGISTERED LAND SURVEYOR. NO ADDITIONAL PAYMENT WILL BE ALLOWED.
7. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, PUBLIC SIDEWALK CURB RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE CEI. THE ENGINEER OF RECORD MUST APPROVE EXTREME LOCATION CHANGES. IN ALL CASES ROADWAY SAFETY SHALL NOT BE COMPROMISED AND ADA REQUIREMENTS FOR UNOBSTRUCTED PEDESTRIAN PATHS SHALL BE SATISFIED.
8. THE CONTRACTOR SHALL SET ROADWAY GROUND MOUNT SIGNS AT PROPER DEFLECTION ANGLE TO THE ROADWAY IN ACCORDANCE WITH FDOT INDEX 17302, UNLESS NOTED OTHERWISE IN THE PLANS.
9. THE CEI SHALL APPROVE COMMON POST MOUNTING OF REGULATORY SIGN PANELS PRIOR TO ASSEMBLY INSTALLATION. NO SIGNS SHALL BE MOUNTED BACK TO BACK WITH STOP OR YIELD SIGNS.
10. CARE SHALL BE TAKEN THAT OVERHEAD PANELS ARE POSITIONED OVER THE LANE(S) TO WHICH THEY APPLY AND AS SHOWN IN THE PLANS. THE CEI SHALL APPROVE THE LOCATIONS ALONG THE TRUSS PRIOR TO INSTALLATION.
11. MILEPOST MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE VERTICAL CLEARANCE CRITERIA IN INDEX 17302 REGARDLESS OF LOCATION, I.E. ROADSIDE OR TOP OF BARRIER WALL.
12. THE CONTRACTOR SHALL COMPLETELY FILL IN ALL HOLES WITH SELECT MATERIALS IN 12" LIFTS AND SOD GROUND MOUNT AND OVERHEAD SIGN REMOVAL LOCATIONS WITHIN 24 HOURS. FOUNDATIONS FOR ALL OVERHEAD SIGN STRUCTURES SHALL BE REMOVED 36" BELOW THE GROUND SURFACE. PAYMENT IS TO BE INCLUDED WITH SIGN REMOVAL. FINAL WORK ITEMS MAY ONLY BE DEFERRED AT THE DIRECTION OF THE CEI.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK, WHEN NECESSARY, TO MEET ALL EROSION CONTROL CRITERIA AS REQUIRED IN THE SPECIFICATIONS. AN EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE CEI FOR APPROVAL PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. ALL EROSION CONTROL WORK AND MATERIALS SHALL BE INCLUDED IN THE UNIT COST OF THE SIGN ASSEMBLY.
14. ALL MISCELLANEOUS WORK NECESSARY IN THE SHOULDER AREA TO CONSTRUCT AND/OR REMOVE SIGNS (I.E. GRADING, SODDING, CLEARING AND GRUBBING, GUARDRAIL RE-SETTING OR FENCE RE-SETTING) IS CONSIDERED INCIDENTAL, AND IS TO BE INCLUDED IN THE COST OF THE SIGN ASSEMBLY. ALL DISTURBED AREAS SHALL BE SODDED. THE CONTRACTOR SHALL HAUL ALL EXCESS EXCAVATION AND WASTE MATERIALS OFF-SITE. REMOVAL OF THESE MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIGN ASSEMBLY.
15. EXISTING SIGNS TO BE REMOVED SHALL BE MEASURED AND PAID FOR BY THE POST ASSEMBLY REGARDLESS OF THE NUMBER OF EXISTING PANELS ATTACHED.
16. EXISTING SIGN PANELS AND/OR SIGN ASSEMBLIES TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF AT HIS EXPENSE EXCEPT WHERE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS. ALL SIGN ASSEMBLIES SCHEDULED FOR REMOVAL SHALL BE TAKEN OFF THE PROJECT SITE BY THE CONTRACTOR WITHIN 48 HOURS OF REMOVAL.
17. THE CONTRACTOR SHALL VERIFY FIELD ELEVATIONS FOR VERTICAL SUPPORTS FOR ALL SIGNS PRIOR TO FABRICATION.
18. SIGN ITEMS 700-22-ABC, 700-23-ABC, 700-70 OR 700-83: DESIGN WIND LOAD OF 130 MPH WAS USED IN ACCORDANCE WITH FDOT STRUCTURES MANUAL. THE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS, INDEX DRAWINGS AND THE FOLLOWING REQUIREMENTS:
 - A) INCREASE THE PROPOSED SIGN PANEL DEPTH BY 20% FOR DESIGN WITH THE FUTURE PANEL (S) ASSUMED TO BE BOTTOM JUSTIFIED ON THE TRUSS. WHEN THE SPAN TRUSS IS TO ACCOMMODATE PANEL(S) OVER ONLY ONE DIRECTION OF TRAVEL, A FUTURE PANEL, INCLUDING EXIT NUMBER, SHALL BE CONSIDERED OVER THE OPPOSITE ROADWAY FOR THE PURPOSE OF PROVIDING MAXIMUM FLEXIBILITY FOR FUTURE USE AS SHOWN IN THE APPENDIX.
 - B) SPAN TYPE STRUCTURES SHALL MEET THE CRITERIA A.) ABOVE OR THE FDOT STRUCTURES MANUAL CRITERIA FOR URBAN AREAS, WHICHEVER GOVERNS.
 - C) CANTILEVER ARM LENGTHS AND UPRIGHT HEIGHTS WERE DETERMINED BASED ON INITIAL SIGN CONFIGURATION. INITIAL PANEL SHALL BE POSITIONED TO MATCH THE END OF THE CANTILEVER ARM FOR AESTHETICS.
 - D) FOUNDATION DETAILING SHALL BE ACCORDING TO FDOT INDEX 11310 OR 11320, EXCEPT THE DRILLED SHAFT OR PEDESTAL SHALL EXTEND A MINIMUM 3 INCHES ABOVE THE GROUND LINE OR THE DESIGN HIGH WATER LINE AND A 3 INCH GROUT PAD SHALL BE UTILIZED FOR ALL OVERHEAD SIGN STRUCTURES.
 - E) CANTILEVER ARM LENGTHS WERE DETERMINED BASED ON THE INITIAL SIGN CONFIGURATION. THE 20% INCREASED SIGN PANEL AREAS ARE NOT SHOWN ON THE CROSS SECTIONS. ANY FUTURE PANELS SHOWN ON THE CROSS SECTIONS WERE FOR STRUCTURE DESIGN PURPOSES ONLY AND ARE NOT PART OF THIS CONTRACT.

19. PRIOR TO ERECTION OF ANY OVERHEAD SIGN STRUCTURES, THE AS-BUILT LOCATION OF THE ANCHOR BOLTS SHALL BE SURVEYED BY A FLORIDA REGISTERED LAND SURVEYOR AND SUBMITTED IN A WRITTEN REPORT TO THE CEI FOR APPROVAL. COST TO BE CONSIDERED INCIDENTAL TO THE UNIT PRICE OF THE SIGN ASSEMBLY.
20. DUE TO THE TIMING OF ADJACENT CONTRACTS, THE CEI MAY DIRECT THE CONTRACTOR TO DELAY INSTALLATION OF CERTAIN PANELS. PANELS SHALL NOT BE INSTALLED AND COVERED WITHOUT PRIOR APPROVAL FROM THE AUTHORITY. NO ADDITIONAL PAYMENT WILL BE PERMITTED TO EITHER DELAY THE INSTALLATION, OR WHEN APPROVED TO INSTALL THE SIGN WITH FULL COVERING.
21. STEEL AND ALUMINUM POST SIZES ARE SHOWN IN THE PLANS FOR MULTI-POST MOUNTED SIGNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY POST SIZES AND LENGTHS PRIOR TO FABRICATION. THE CONTRACTOR MAY USE AN ALTERNATE POST MATERIAL UPON PROVIDING ADEQUATE JUSTIFICATION TO THE PROJECT ENGINEER. THE SAME POST MATERIAL AND SHAPE, IF APPLICABLE, SHALL BE USED THROUGHOUT THE ENTIRE PROJECT.
22. ALL SUPPORT COLUMNS FOR OVERHEAD SIGN STRUCTURES, INCLUDING PROPOSED AND EXISTING TO REMAIN OR TO BE RELOCATED WITHIN THE SIGNING PROJECT LIMITS, SHALL BE PAINTED WHEN PROJECT REACHES SUBSTANTIAL COMPLETION. PAINTING SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION AND PLAN DETAIL(S). PAYMENT FOR PAINTING PROPOSED UPRIGHTS SHALL BE CONSIDERED INCIDENTAL TO STRUCTURE INSTALLATION. PAYMENT FOR PAINTING EXISTING UPRIGHTS (TO REMAIN OR RELOCATED) SHALL BE MADE UNDER ITEM NO. 560-3, EXISTING OVERHEAD SIGN STRUCTURE UPRIGHT PAINTING (EA). SEE SPECIAL PROVISIONS.
23. SIGN STRUCTURE UPRIGHT SURFACES SHALL BE PREPARED IN ACCORDANCE WITH THE SPECIAL PROVISIONS BEFORE PAINTING. ALL BOLTS, CROSS BRACE DIAGONALS AND FLANGES NOTED ON THE PLANS DETAIL SHEET(S) SHALL BE THOROUGHLY CLEANED AND FREE OF DEBRIS BEFORE PRIMER AND FINISHED COAT(S) ARE APPLIED.
24. THE CONTRACTOR SHALL REMOVE AND REINSTALL ALL EQUIPMENT ATTACHED TO SIGN UPRIGHTS PRIOR TO BEGINNING THE PAINTING PROCESS. EQUIPMENT SHALL INCLUDE BUT IS NOT LIMITED TO ELECTRICAL DISCONNECT SWITCH BOXES, ELECTRICAL AND/OR FAN CONDUIT, DMS CONTROLLER BOXES, ANTENNAE, ETC. ANY EQUIPMENT DAMAGED DURING THE PAINTING PROCESS SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS EXPENSE. ALL REPAIRS SHALL MEET THE SATISFACTION OF THE ENGINEER OF RECORD.
25. THE CONTRACTOR SHALL VERIFY ALL SIGN STRUCTURE IDENTIFICATION NUMBERS ON EXISTING STRUCTURES PRIOR TO ORDERING OR FABRICATING STENCILS. ALL DISCREPANCIES SHALL BE REPORTED TO THE CEI.
26. THE CONTRACTOR SHALL REPAINT ALL SIGN STRUCTURE IDENTIFICATION NUMBERS REMOVED AS A RESULT OF PAINTING THE UPRIGHTS ONCE THE FINISH COAT HAS SUFFICIENTLY CURED. THE CONTRACTOR SHALL SUBMIT A SAMPLE OF A FINISHED STENCIL AND A WORKSHEET SHOWING FONT TYPE, SIZE AND SPACING BETWEEN CHARACTERS TO THE CEI FOR APPROVAL PRIOR TO FINAL PRODUCTION OF STENCILS. SEE SPECIAL PROVISION.
27. SIGN ILLUMINATION SHALL BE SIMILAR TO OR EQUAL TO HOLOPHANE SIGN-VUE LED SIGN LIGHT. THE NUMBER OF LUMINAIRES INDICATED SHALL MEET OR EXCEED THE LUMINANCE PROVIDED BY THESE LIGHTS OR SHALL BE AS SHOWN IN THE SCHEDULE OF LIGHTED SIGNS. THE NUMBER OF LUMINAIRES INDICATED ON FDOT STANDARD INDEX 17505 IS SUPERSEDED BY THE APPROVAL OF THE COMPUTER PRINTOUT OF THE ANALYSIS OF EACH SIGN INDICATING THAT THE SELECTED LUMINAIRE MEETS THE CFX REQUIREMENTS. THE CONTRACTOR SHALL NOT BE ALLOWED ANY OVERHEAD SIGN STRUCTURES ALONG ANY PORTION OF THE MAINLINE OR ON RAMPS WITH MAXIMUM-TO-MINIMUM UNIFORMITY RATIO GREATER THAN 6:1. ILLUMINATION FOR EACH SIGN SHALL BE BETWEEN 20-30 FOOTCANDLES WITH DRIVER OR SURGE PROTECTION LOCATED REMOTELY IN REMOTE LED DRIVER BOX.
28. TOP MOUNTED LUMINARIES SHALL NOT BE ALLOWED ON THE MAINLINE OR RAMPS WITHIN THE AUTHORITY'S JURISDICTION.
29. THE CONTRACTOR SHALL PROVIDE WIRING AND PULL BOXES (AS NECESSARY) TO ALL FUTURE SIGN PANEL POSITIONS AND CAP OFF IN THE CONNECTOR BOX.
30. THE COST OF EXISTING LUMINAIRE AND CONDUIT ADJUSTMENTS (INCLUDING REPAIR, IF NECESSARY) AND ANY OTHER HARDWARE AND COMPONENT PARTS REQUIRED FOR A COMPLETE LUMINAIRE, WHERE REMOVING PANELS AND ADDING NEW PANELS TO AN EXISTING ASSEMBLY, SHALL BE INCLUDED UNDER THE PAY ITEM NUMBER FOR PANEL INSTALLATION. REMOVAL OF OLD LUMINAIRES SHALL INCLUDE REMOVAL OF MOUNTING BRACKET ARMS. INSTALLATION OF NEW LUMINAIRES SHALL INCLUDE NEW MOUNTING BRACKET ARMS.
31. THE SIGN LIGHTING LUMINARIES SHALL BE "NIGHT AIMED" TO ASSURE PROPER ILLUMINATION OF THE SIGN SURFACE. THE LUMINARIES MUST BE AT AN ANGLE SUFFICIENT TO PREVENT THEM FROM SHINING INTO THE FACES OF DRIVERS TRAVELING IN THE OPPOSITE DIRECTION.
32. SIGN LIGHTING LUMINARIES MAY REQUIRE SHIELDING TO PREVENT GLARE INTO NEIGHBORING RESIDENTIAL PROPERTIES. WHEN INCLUDED IN PLANS THE CEI SHALL FIELD VERIFY AND DOCUMENT NEED FOR SHIELDING PRIOR TO INSTALLATION. THE CEI SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD FOR RESOLUTION. COST OF SHIELDING SHALL BE CONSIDERED INCIDENTAL TO THE SIGN ASSEMBLY OR NEW SIGN LUMINAIRE INSTALLATION AS APPROPRIATE.
33. THE CONTRACTOR SHALL ENERGIZE OVERHEAD SIGN LUMINAIRES WITHIN 24 HOURS OF INSTALLATION.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING ROADWAY LIGHTING CONDUIT PRIOR TO INSTALLATION OF ROADWAY SIGNAGE.
35. A SEPARATE GROUNDING ELECTRODE AND PULL BOX IS REQUIRED PER UPRIGHT OF EACH NEW CANTILEVER. TWO SEPARATE GROUNDING ELECTRODES AND PULL BOXES ARE REQUIRED PER UPRIGHT ON EACH NEW SPAN TRUSS STRUCTURE. PAYMENT SHALL BE INCIDENTAL TO COST OF STRUCTURE. INSTALLATION SHALL BE IN ACCORDANCE WITH FDOT INDEX 17505 WITH A MINIMUM REQUIRED LENGTH OF 20 LINEAR FEET AND A MEASURED RESISTANCE OF 25 OHMS OR LESS. ALL CONNECTIONS SHALL BE EXOTHERMICALLY WELDED.
36. FOR LOCATIONS THAT REQUIRE A GROUNDING ELECTRODE ARRAY (AS DETERMINED BY THE CEI), A SEPARATE PULL BOX SHALL BE INSTALLED FOR EACH ELECTRODE WITHIN THE ARRAY AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIGN ASSEMBLY.
37. 3M SCOTCH BRAND VERY HIGH BOND (VHB) ACRYLIC FOAM TAPE NUMBER 4950 OR THE AUTHORITY'S APPROVED EQUAL IN COMBINATION WITH MECHANICAL FASTENERS SHALL BE USED TO ATTACH PANELS TO WIND BEAMS, BRACKETS AND SPLICE PLATES ON ALL SINGLE AND MULTI-POST SIGN ASSEMBLIES. CONTRACTOR SHALL MEET ALL 3M REQUIREMENTS FOR PROPER INSTALLATION OF VHB. VHB TAPE SHALL NOT BE REUSED ONCE INSTALLED. DESIGN SHALL MEET MOST CURRENT FDOT WIND LOAD CRITERIA. SEE SPECIAL PROVISIONS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GENERAL NOTES (1)

SHEET NO.
 5-6

PRINT DRIVER:
 PEN TABLE:
 \$PLT DRVS\$
 \$PENTBL\$

Default: \$SHEETSIZE\$ \$SCALESHORTS\$
 MODEL: \$MODEL\$
 SHEET SIZE: \$SHEETSIZE\$
 PLOT SCALE: \$SCALESHORTS\$
 \$PLTDRVS\$ \$SPENBLSS\$
 PRINT DRIVER: \$PRINTDRIVER\$
 PEN TABLE: \$PENTABLE\$

SIGNING GENERAL NOTES (CONT.)

38. MECHANICAL FASTENERS USED TO ATTACH SIGN PANELS TO WIND BEAMS, BRACKETS AND SPLICE PLATES FOR ALL OVERHEAD AND GROUND MOUNTED PANELS SHALL BE COUNTERSUNK SCREWS.
39. THE CONTRACTOR SHALL PATCH ALL COUNTERSUNK SCREWS ON ALL NEW SIGN FACES. RIVETS ON OVERLAYS AND/OR DEMOUNTS SHALL BE PAINTED WITH COLOR TO MATCH SHEETING AT RIVET LOCATION. SEE SPECIAL PROVISIONS.
40. ON EXISTING OVERHEAD STRUCTURES WITH PROPOSED SIGN PANEL(S), THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO SECURE THE PROPOSED SIGN PANEL(S) TO THE STRUCTURE IN ACCORDANCE WITH INDEX I1300. PAYMENT IS TO BE INCLUDED IN THE UNIT PRICE FOR THE SIGN PANEL.
41. EXISTING SIGNS TO BE RELOCATED TO PROPOSED STRUCTURES SHALL BE INSTALLED USING NEW LUMINAIRES, NEW HARDWARE AND ANY/ALL OTHER COMPONENT PARTS REQUIRED FOR A COMPLETE SIGN INSTALLATION. INSTALLATION OF NEW LUMINAIRES SHALL INCLUDE NEW MOUNTING BRACKET ARMS. INSTALLATION OF RELOCATED OR NEW SIGN PANELS SHALL INCLUDE NEW OVERHEAD SIGN HANGERS.
42. NEW SIGN PANELS INSTALLED ON EXISTING POSTS (SINGLE OR MULTI-POST) SHALL BE MOUNTED WITH NEW HARDWARE. COST TO BE INCLUDED IN SIGN PANEL INSTALLATION.
43. WHERE FULL PANEL OVERLAYS ARE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND MATCHING EXISTING CORNER RADII. ALL EXISTING DEMOUNTS OR OVERLAYS SHALL BE REMOVED PRIOR TO PROPOSED FULL OR PARTIAL OVERLAY INSTALLATION. THE COST IS CONSIDERED INCIDENTAL AND IS TO BE INCLUDED IN THE PAY ITEM FOR PROPOSED OVERLAY.
44. FOR PARTIAL PANEL OVERLAYS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXISTING COPY TO BE OVERLAID IS COMPLETELY COVERED. THE CONTRACTOR SHALL ALSO ENSURE THE OVERLAY DOES NOT COVER ANY PORTION OF THE EXISTING COPY OR BORDER WHICH IS TO REMAIN VISIBLE.
45. UTILITY LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. SEE UTILITY ADJUSTMENT PLANS. THERE MAY BE ADDITIONAL UTILITIES WITHIN THE CONSTRUCTION AREAS WHICH ARE NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND OWNERSHIP OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITY.
46. THE AUTHORITY'S FIBER OPTIC TONE WIRE, CONDUIT, AND LOCATE TAPE WITHIN FIVE (5) FEET OF MULTI-POST AND OVERHEAD SIGN STRUCTURES SHALL BE MANUALLY LOCATED VIA SOFT DIG EXCAVATION PRIOR TO THE CONSTRUCTION OF PROPOSED SIGN STRUCTURES.
47. VEGETATION SHALL BE REMOVED OR CUT BACK AS DIRECTED BY THE CEI TO PROVIDE ADEQUATE SIGHT DISTANCE FOR ALL OVERHEAD AND GROUND MOUNTED SIGNS. VEGETATION REMOVAL AND TRIMMING SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE OF THE SIGN ASSEMBLY. SEE "LINE OF SIGHT FOR USE ON MAINLINE" DETAIL FOR VEGETATION REMOVAL OR TRIMMING FROM THE LINE OF SIGHT.
48. IN ORDER TO ACCOMMODATE THE SIGN ASSEMBLY, SOME LANDSCAPE MATERIAL MAY REQUIRE PERMANENT RELOCATION OR REMOVAL AND REPLACEMENT WITH ANOTHER VARIETY OF MATERIAL. THE CONTRACTOR SHALL PROVIDE THE CEI WITH A PRELIMINARY LANDSCAPE ADJUSTMENT PLAN INCLUDING PROPOSED PLANT MATERIAL(S). THE AUTHORITY SHALL APPROVE ALL PROPOSED OR RELOCATED PLANT MATERIAL PRIOR TO INSTALLATION. COST OF LANDSCAPE MATERIAL ADJUSTMENT SHALL BE CONSIDERED INCIDENTAL TO THE UNIT COST OF THE SIGN ASSEMBLY.
49. AT LOCATIONS WITHIN PLANNED LANDSCAPING AREAS (BY OTHERS), THE CONTRACTOR SHALL COMPLETE ALL WORK (I.E. GRADING, CLEAN-UP, ETC.) IMMEDIATELY UPON INSTALLATION OF SIGN ASSEMBLY SUCH THAT LANDSCAPING FEATURES MAY BE INSTALLED. FINAL WORK ITEMS MAY ONLY BE DEFERRED AT THE DIRECTION OF THE CEI.
50. ALL NEW SIGN PANELS REGARDLESS OF MOUNTING (OVERHEAD, SINGLE POST OR MULTI-POST) SHALL BE A MINIMUM OF 0.125 INCHES THICK. ALL SIGN OVERLAYS SHALL BE A MINIMUM OF 0.08 INCHES THICK. EXTRUDED PANELS SHALL NOT BE ALLOWED.
51. ALL ROADWAY AND TOLL PLAZA SIGN PANELS REGARDLESS OF LOCATION, MOUNTING TYPE (OVERHEAD, SINGLE OR MULTI-POST) OR LIGHTING SHALL BE FABRICATED USING 3M DIAMOND GRADE CUBED (DG3) SHEETING OR THE AUTHORITY'S APPROVED EQUAL. WARNING SIGNS FOR LANE DROP (W4-2), LANE ENDS (W9-1, W9-2), REDUCE SPEED AHEAD (W3-5), CURVES AND PEDESTRIAN CROSSINGS SHALL BE 3M FLUORESCENT DG3 SHEETING OR THE AUTHORITY'S APPROVED EQUAL. SCHOOL CROSSING SIGNS (S1-1) AND SUPPLEMENTAL PLAQUES SHALL BE FABRICATED USING 3M DG3 FLUORESCENT YELLOW-GREEN SHEETING OR THE AUTHORITY'S APPROVED EQUAL.
52. THE COLOR(S) OF ALL PANELS POSITIONED ABOVE AND BELOW A ROUTE SHIELD (U.S., STATE, COUNTY AND TOLL) IN ROUTE MARKER ASSEMBLIES SHALL MATCH THE ASSOCIATED SHIELD.
53. ALL E5-1A PANELS SHALL BE FABRICATED USING CLEARVIEW HIGHWAY FONT. THE WORD "EXIT" SHALL BE IN 12" CV5W AND THE EXIT NUMBER, INCLUDING LETTER IF ANY, SHALL BE 15" CV5W. ALL E5-1A SHALL BE 72" x 60".
54. FOR FULL PANEL OVERLAYS, THE OVERLAY FABRICATOR SHALL PROVIDE A DETACHED BACK OF PANEL DECAL CONTAINING ALL REQUIRED INFORMATION. THE CONTRACTOR SHALL APPLY THE DECAL TO THE BACK OF THE EXISTING PANEL IN THE VICINITY OF THE EXISTING DECAL. THE EXISTING DECAL SHALL REMAIN VISIBLE.
55. A DECAL SHALL BE PROVIDED ON BACK OF ALL NEW PANELS AND OVERLAYS (FULL OR PARTIAL) REGARDLESS OF MOUNTING TYPE (OVERHEAD, SINGLE OR MULTI-POST). LETTERS SHALL BE BLACK AND LARGE ENOUGH TO BE CLEARLY LEGIBLE. LETTERS SHALL BE WHITE IF THE BACK OF THE PANEL HAS BEEN PAINTED BLACK. THE DECAL SHALL CONTAIN THE FOLLOWING INFORMATION:
 CFX/PROJECT NUMBER
 FABRICATOR'S INITIALS/DATE OF FABRICATION
 SHEETING MANUFACTURER/NAME OF SHEETING
 DATE OF INSTALLATION
56. THE SIGN PANEL FABRICATOR SHALL PROVIDE A COLOR PHOTOGRAPH OF THE ASSEMBLED PANEL FOR ALL MULTI-POST AND OVERHEAD MOUNTED SIGNS. PHOTOGRAPHS SHALL BE SUBMITTED TO THE CEI. THE CEI SHALL FORWARD A COPY OF THE PICTURES TO THE EOR AND THE AUTHORITY'S REPRESENTATIVE. THE CEI, EOR AND THE AUTHORITY'S REPRESENTATIVE SHALL APPROVE THE PHOTOS PRIOR TO SHIPMENT. DIGITAL FORMAT IS ACCEPTABLE; "JPG" FORMAT PREFERRED. PHOTO DETAIL AND RESOLUTION SHALL BE SUCH THAT REVIEWER WILL BE ABLE TO REASONABLY DETERMINE IF THE PANEL HAS BEEN FABRICATED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. PHOTOGRAPHS WILL NOT BE REQUIRED FOR MULTI-POST ROUTE MARKER COMPONENT PANELS UNLESS THEY ARE SPECIAL DESIGN. ONLY ONE REPRESENTATIVE PHOTOGRAPH IS REQUIRED FOR MULTIPLE IDENTICAL SPECIAL DESIGN ROUTE MARKER COMPONENTS.
57. IF SIGN SHEETING, COLORS OR ADHESIVE TAPE MATERIALS ARE PROPOSED FOR USE OTHER THAN THE 3M PRODUCTS SPECIFIED IN THE GENERAL NOTES OR PLAN DETAILS, A 4" X 4" (SHEETING) OR 24" X 1" (TAPE) SAMPLE OF EACH IN ALL APPLICABLE COLORS SHALL BE SUBMITTED TO THE AUTHORITY FOR APPROVAL PRIOR TO FABRICATION OR USE. ALL SAMPLES SHALL INCLUDE MANUFACTURER'S INFORMATION INCLUDING, BUT NOT LIMITED TO, SPECIFICATIONS, WARRANTY AND LOCAL SITES WHERE PRODUCT IS CURRENTLY IN USE.
58. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING OUT THE COLUMN ENTITLED "AS-BUILT STATION" IN THE TABLE ON THE DETAIL SHEET FOR SPECIAL DESIGN MILE POSTS.

LEGEND:

- EXISTING OVERHEAD CANTILEVER
- EXISTING OVERHEAD SPAN
- EXISTING SINGLE POST SIGN
- EXISTING MULTIPOST SIGN
- ┌└ EXISTING BRIDGE MOUNT SIGN
- EXISTING FLUSH BRIDGE MOUNT SIGN
- PROPOSED OVERHEAD CANTILEVER
- PROPOSED OVERHEAD SPAN
- PROPOSED T-TRUSS
- PROPOSED BARRIER MOUNTED SIGN
- PROPOSED SINGLE POST SIGN
- PROPOSED MULTIPOST SIGN
- PROPOSED FLUSH BRIDGE MOUNT SIGN

REVISIONS				 <small>HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500</small>	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	GENERAL NOTES (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			S-7
					SR 429	429-202			

PAVEMENT MARKING GENERAL NOTES

1. STOP BARS, CROSSWALKS, STANDARD PAVEMENT MESSAGES AND STANDARD DIRECTIONAL ARROWS SHALL BE THERMOPLASTIC. ALL OTHER STRIPING WITHIN THE EXPRESSWAY AUTHORITY'S JURISDICTION SHALL BE 3M COMPANY SERIES 380IES OR THE AUTHORITY'S APPROVED EQUAL ON ASPHALT AND CONCRETE PAVEMENT, UNLESS OTHERWISE NOTED IN PLANS. THE OPTION LANE ARROW SHALL BE PERFORMED THERMOPLASTIC, PPRT, OR STANDARD THERMOPLASTIC AS APPROVED BY THE AUTHORITY.
2. ALL PAVEMENT MESSAGES AND ARROWS ON SR 429 AND PAVEMENT MARKINGS ON CONNECTOR ROAD AND SIDE STREETS SHALL BE THERMOPLASTIC.
3. ALL MAINLINE AND RAMP SKIP LINES (10'-30') SHALL BE PERFORMED PATTERNED RETRO-REFLECTIVE CONTRAST TAPE (PPRT) CONSISTING OF A 6" WHITE TAPE BORDERED ON BOTH SIDES (LONGITUDINALLY) WITH A 1/2" MATTE BLACK CONTRASTING TAPE, FOR A TOTAL WIDTH OF 9".
4. WHITE EDGE LINES SHALL BE PERFORMED PATTERNED RETRO-REFLECTIVE CONTRAST TAPE (PPRT) CONSISTING OF A 6" WHITE TAPE BORDERED ON BOTH SIDES (LONGITUDINALLY) WITH A 1/2" MATTE BLACK CONTRASTING TAPE, FOR A TOTAL WIDTH OF 9".
5. RETROREFLECTIVE PAVEMENT MARKERS (RPMS) ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT IN ACCORDANCE WITH FDOT INDEX 17345, 17346 AND 17352, UNLESS OTHERWISE NOTED IN PLANS. ALL RPMS INSTALLED ALONG THE AUTHORITY'S MAINLINE AND ALONG RAMPS WITHIN THE AUTHORITY'S JURISDICTION SHALL BE 3M COMPANY SERIES 290 RPMS OR THE AUTHORITY'S APPROVED EQUAL.
6. REFLECTIVE PAVEMENT MARKER ADHESIVE FOR USE ON ASPHALT AND CONCRETE PAVEMENT SHALL BE BITUMINOUS MATERIAL UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
7. ANY EXISTING PAVEMENT MARKINGS, RPM'S OR DELINEATORS SCHEDULED TO REMAIN EITHER WITHIN OR BEYOND THE PROJECT LIMITS (INCLUDING MILLING AND RESURFACING), WHICH ARE DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS EXPENSE. LIMIT OF REPLACEMENT IF REQUIRED SHALL BE DETERMINED BY THE CEI.
8. ROADSIDE MOUNTED FLEXIBLE TUBULAR DELINEATORS SHALL BE "SAFE-HIT CORPORATION, TYPE 2 GUIDE POST (48" WITH FLATTENED TOP)" OR THE AUTHORITY'S APPROVED EQUAL.
9. PAVEMENT MARKINGS (I.E., EDGE LINES, CHANNELIZATION STRIPING, ETC.) SHALL NOT EXTEND THROUGH CROSSWALK AREAS.
10. THE CONTRACTOR SHALL NOT ABUT MULTIPLE STRIPES IN ORDER TO MEET THE SPECIFIED WIDTH (I.E., THREE 6" STRIPES TO MAKE ONE 18" STRIPE, ETC.). CONTRACTOR SHALL INSTALL ONE STRIPE OF THE SPECIFIED WIDTH.
11. THE EXISTING PAVEMENT MARKINGS AND RPMS SHALL BE COMPLETELY REMOVED AND REPLACED ON ALL CONCRETE BRIDGE DECKS (INCLUDING APPROACH SLABS) AND TOLL PLAZA DECKS WITHIN CONSTRUCTION LIMITS. REMOVAL OF RPMS AND PERMANENT MARKINGS SHALL BE INCIDENTAL TO PAY ITEM NO. 400-145.
12. IF DELINEATORS, RPMS OR PAVEMENT MARKING MATERIALS ARE PROPOSED FOR USE OTHER THAN THE PRODUCTS SPECIFIED IN THE GENERAL NOTES OR PLAN DETAILS, A SAMPLE OF EACH IN ALL APPLICABLE COLORS SHALL BE SUBMITTED TO THE AUTHORITY FOR APPROVAL PRIOR TO INSTALLATION. ALL SAMPLES SHALL INCLUDE MANUFACTURERS INFORMATION INCLUDING, BUT NOT LIMITED TO, SPECIFICATIONS, WARRANTY AND LOCAL SITES WHERE PRODUCT IS CURRENTLY IN USE.
13. PROPOSED 12" WHITE/BLACK ALTERNATING 3'-12' SKIP STRIPING ON CONCRETE PAVEMENT SHALL BE INSTALLED USING THE BUTT SPLICE METHOD IN ACCORDANCE WITH THE LATEST EDITION OF 3M COMPANY "STAMARK TAPES PAVEMENT SURFACE PREPARATION AND APPLICATION TECHNIQUES, INFORMATION FOLDER 5.7". CONTACT 3M AT 1-800-553-1380 AS NEEDED.
14. THE CONTRACTOR SHALL PROVIDE A TEMPORARY LAYOUT OF THE OPTION LANE DIRECTIONAL ARROW FOR APPROVAL BY THE CEI PRIOR TO PERMANENT INSTALLATION. THE CEI SHALL ADJUST THE LOCATION AS NECESSARY TO PROVIDE OPTIMUM VISUAL BENEFIT TO THE MOTORIST.

PAY ITEM NOTES

1. 713-1AA-BCD: PREFORMED TAPE SHALL BE 3M COMPANY 380IES OR AUTHORITY APPROVED EQUAL. SEE GENERAL NOTES.
2. 700-22-ABC, 700-23-ABC: SIGN UPRIGHT PAINTING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF PROPOSED STRUCTURE.
3. 700-1-60: WHEN EXISTING SIGN ASSEMBLIES ARE TO BE REMOVED FROM OR RELOCATED ALONG BARRIER WALLS AND BRIDGES THE CONTRACTOR SHALL PATCH, SEAL AND PAINT ALL HOLES AS A RESULT OF ASSEMBLY REMOVAL OR RELOCATION. PAINT SHALL MATCH EXISTING AND MATERIALS SHALL BE APPROVED BY THE CEI PRIOR TO USE. COST SHALL BE CONSIDERED INCIDENTAL TO THE ASSEMBLY REMOVAL OR RELOCATION COST.
4. 711-1A-BCD : FOR LOCATIONS THAT REQUIRE THERMOPLASTIC PAVEMENT MARKINGS, PAINT SHALL BE USED FOR THE INITIAL APPLICATION TO ALLOW FOR A 30 DAY CURE TIME. INSTALLATION OF THE FINAL THERMOPLASTIC STRIPING SHALL BE AS DIRECTED BY THE AUTHORITY'S DIRECTOR OF CONSTRUCTION AND THE CEI. COST OF THE INITIAL PAINT APPLICATION SHALL BE CONSIDERED INCIDENTAL TO THE THERMOPLASTIC PAY ITEM COST.
5. 700-3-301B AND 700-3-302B: SIGN PANELS TO BE MOUNTED FLUSH WITH BRIDGE GIRDER OR PARAPET WALL. SPACERS MAY BE ADDED BEHIND THE SIGN AS NEEDED SO FINAL SIGN FACE IS VERTICALLY PLUMB. ANY ALUMINUM SIGN SURFACE WHICH OTHERWISE COMES INTO CONTACT WITH CONCRETE SHALL BE COATED WITH AN ALKALI-RESISTANCE COATING. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG CUTS FOR ATTACHMENT METHOD.
6. 700-3-226 AND 700-3-231: THE COST OF NEW HORIZONTALS ARE CONSIDERED INCIDENTAL TO THESE SIGN PANEL PAY ITEMS.
7. 700-1-31: USE CFX DETAIL PROVIDED ON S-69 TO WALL MOUNT THE SIGN.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO.	PROJECT NO.
SR 429	429-202

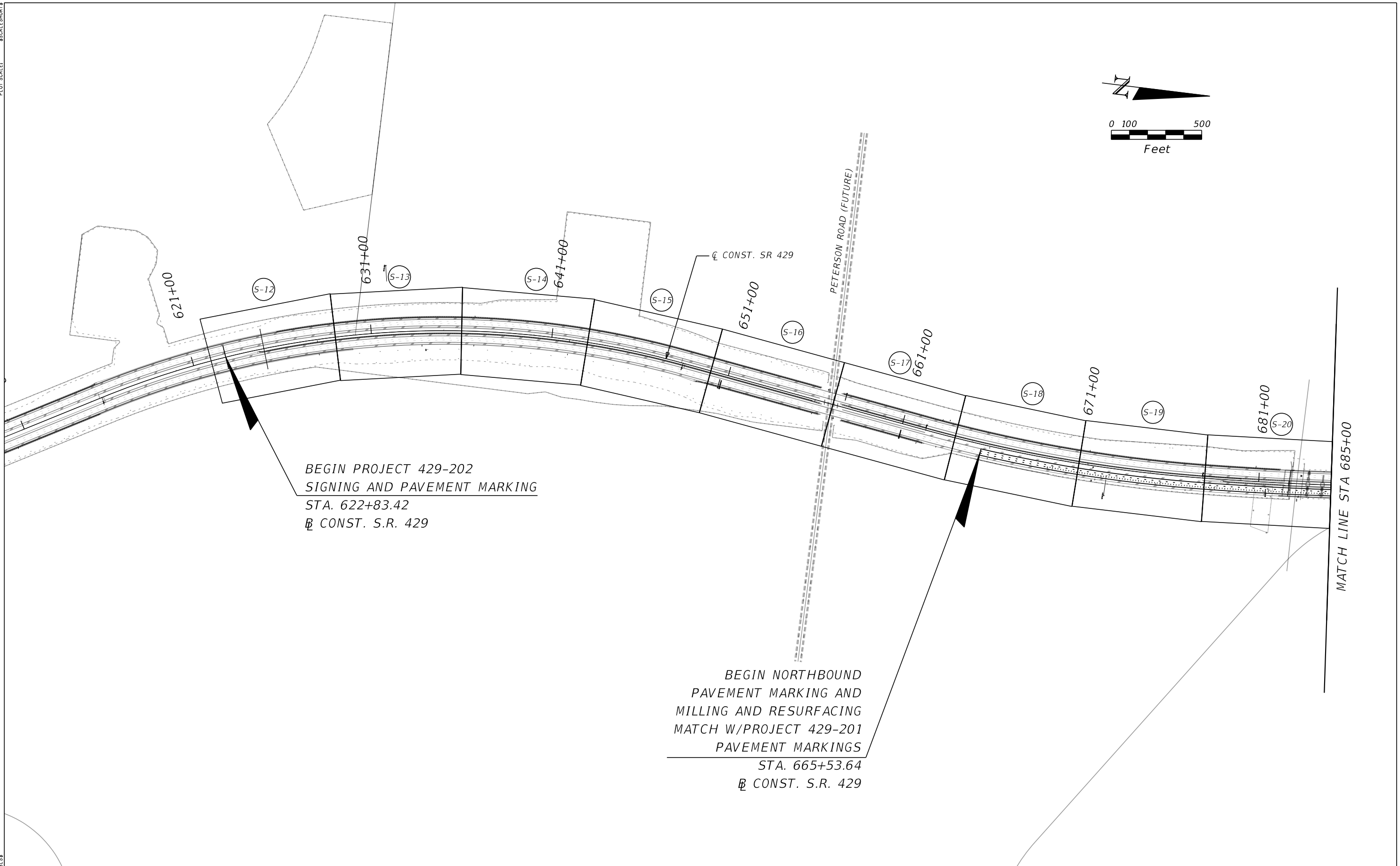
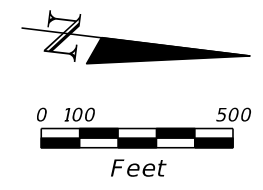
CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

*PAVEMENT MARKING AND
 PAY ITEM GENERAL NOTES*

SHEET
 NO.

S-8

Default
 MODEL: \$\$\$SHEET SIZE\$
 SHEET SIZE: \$\$\$SCALE SHORTS\$
 PLOT SCALE:



BEGIN PROJECT 429-202
 SIGNING AND PAVEMENT MARKING
 STA. 622+83.42
 Ⓟ CONST. S.R. 429

BEGIN NORTHBOUND
 PAVEMENT MARKING AND
 MILLING AND RESURFACING
 MATCH W/PROJECT 429-201
 PAVEMENT MARKINGS
 STA. 665+53.64
 Ⓟ CONST. S.R. 429

MATCH LINE STA 685+00

PRINT DRIVER: \$\$\$PLOT SCALE\$
 PEN TABLE:

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO. SR 429	PROJECT NO. 429-202
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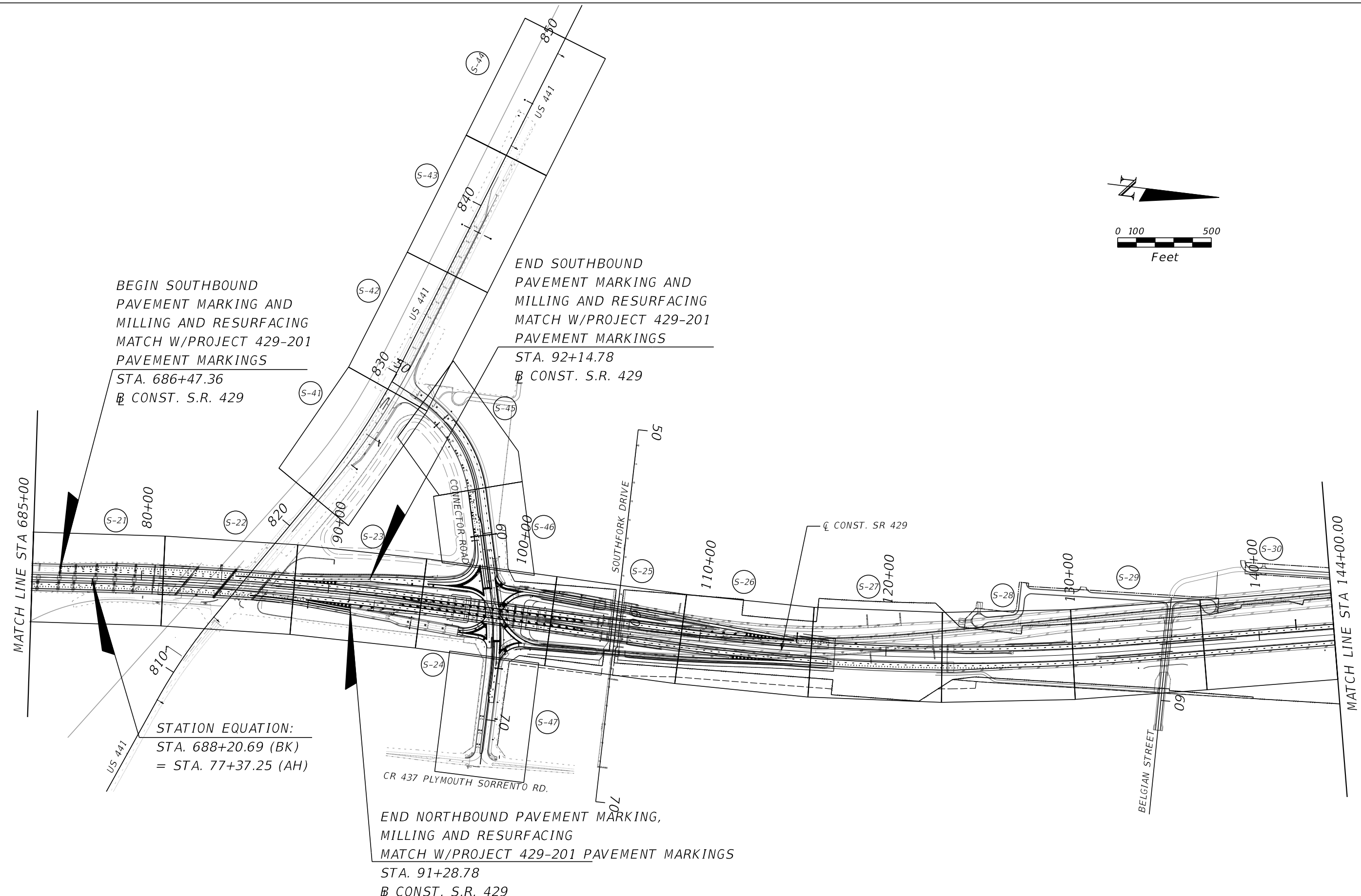
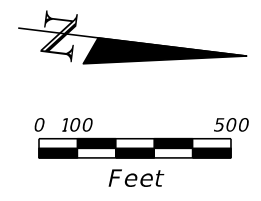
CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

PROJECT LAYOUT SHEET (1)
SR 429

SHEET
 NO.

S-9

MODEL: \$SHEET\$
 SHEET SIZE: \$SCALE\$
 PLOT SCALE: \$SCALE\$



BEGIN SOUTHBOUND
 PAVEMENT MARKING AND
 MILLING AND RESURFACING
 MATCH W/PROJECT 429-201
 PAVEMENT MARKINGS
 STA. 686+47.36
 @ CONST. S.R. 429

END SOUTHBOUND
 PAVEMENT MARKING AND
 MILLING AND RESURFACING
 MATCH W/PROJECT 429-201
 PAVEMENT MARKINGS
 STA. 92+14.78
 @ CONST. S.R. 429

STATION EQUATION:
 STA. 688+20.69 (BK)
 = STA. 77+37.25 (AH)

END NORTHBOUND PAVEMENT MARKING,
 MILLING AND RESURFACING
 MATCH W/PROJECT 429-201 PAVEMENT MARKINGS
 STA. 91+28.78
 @ CONST. S.R. 429

PRINT DRIVER: \$PLOTDRVS\$
 PEN TABLE: \$PENBLSS\$

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

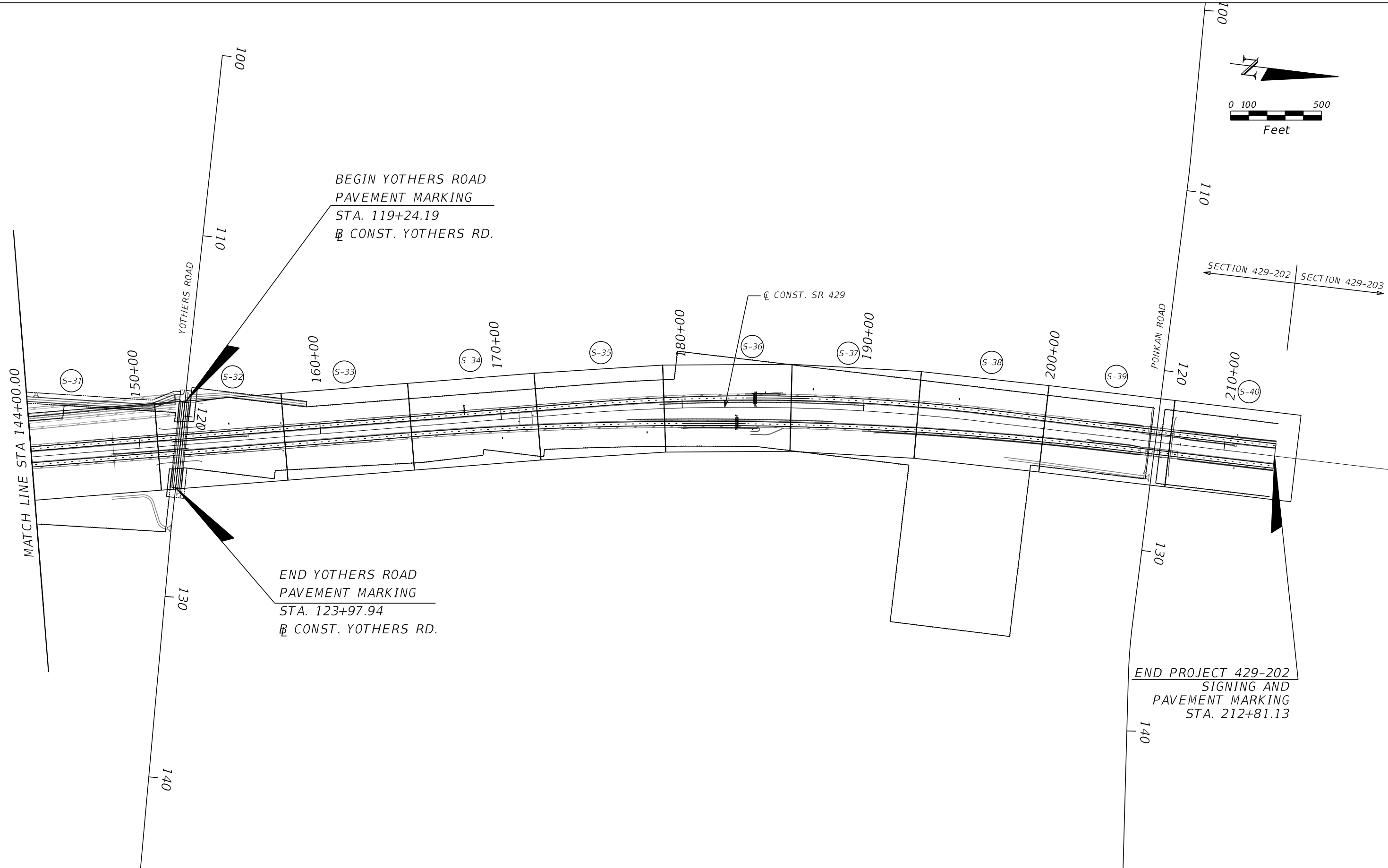
CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO. SR 429	PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

PROJECT LAYOUT SHEET (2)
SR 429

SHEET NO.
S-10

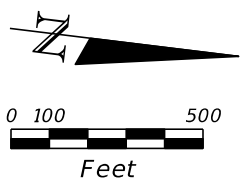
Default:
 MODEL: \$SHEET\$
 SHEET SIZE: \$SCALE\$
 PLOT SCALE: \$SHORT\$



BEGIN YOTHERS ROAD
 PAVEMENT MARKING
 STA. 119+24.19
 @ CONST. YOTHERS RD.

END YOTHERS ROAD
 PAVEMENT MARKING
 STA. 123+97.94
 @ CONST. YOTHERS RD.

END PROJECT 429-202
 SIGNING AND
 PAVEMENT MARKING
 STA. 212+81.13



SECTION 429-202 | SECTION 429-203

MATCH LINE STA 144+00.00

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO.	PROJECT NO.
SR 429	429-202

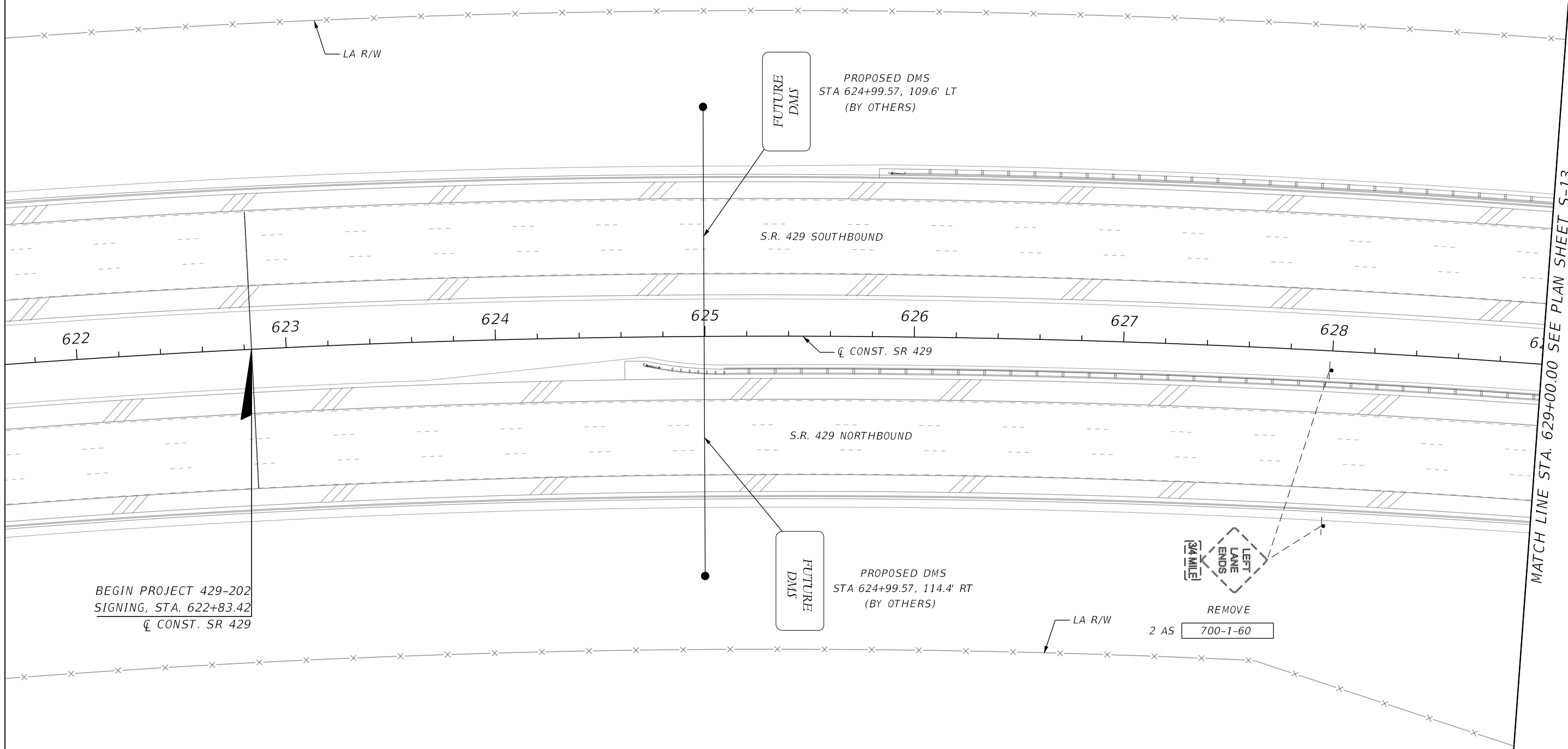
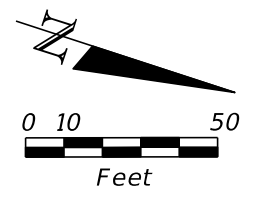
CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

PROJECT LAYOUT SHEET (3)
SR 429

SHEET
 NO.
 S-11

PRINT DRIVER: \$PLOTDRIVER\$
 PEN TABLE: \$PLOTSCALE\$

ISP-PLAN1
 SHEET SIZE:
 PLOT SCALE:



MATCH LINE STA. 629+00.00 SEE PLAN SHEET S-13

BEGIN PROJECT 429-202
 SIGNING, STA. 622+83.42
 CL CONST. SR 429

FUTURE DMS
 PROPOSED DMS
 STA 624+99.57, 109.6' LT
 (BY OTHERS)

S.R. 429 SOUTHBOUND

S.R. 429 NORTHBOUND

FUTURE DMS
 PROPOSED DMS
 STA 624+99.57, 114.4' RT
 (BY OTHERS)

LEFT LANE ENDS
 (3/4 MILE)

REMOVE
 2 AS 700-1-60

NO PAVEMENT MARKING WORK
 ON THIS SHEET

PRINT DRIVER:
 PEN TABLE:
 SPLTDVSS
 SPENBLS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

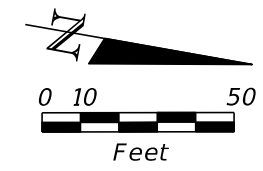
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

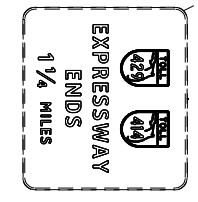
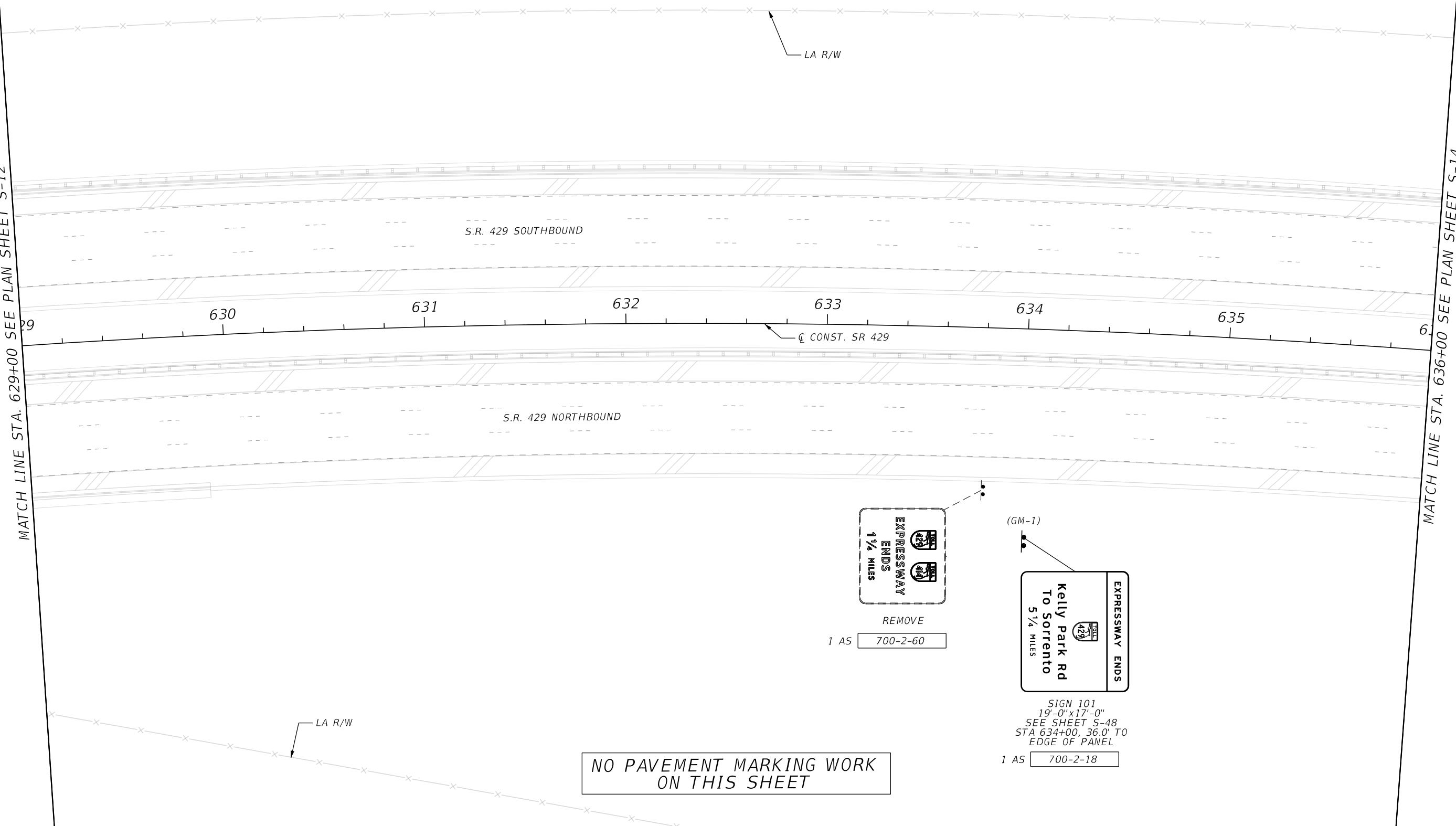
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-12

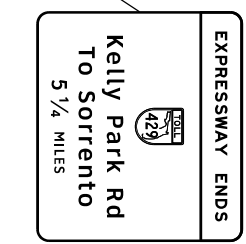


MATCH LINE STA. 629+00 SEE PLAN SHEET S-12

MATCH LINE STA. 636+00 SEE PLAN SHEET S-14



REMOVE
 1 AS 700-2-60



(GM-1)
 SIGN 101
 19'-0" x 17'-0"
 SEE SHEET S-48
 STA 634+00, 36.0' TO
 EDGE OF PANEL
 1 AS 700-2-18

NO PAVEMENT MARKING WORK
 ON THIS SHEET

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

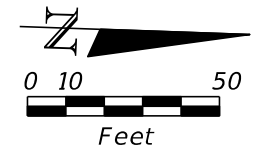
**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

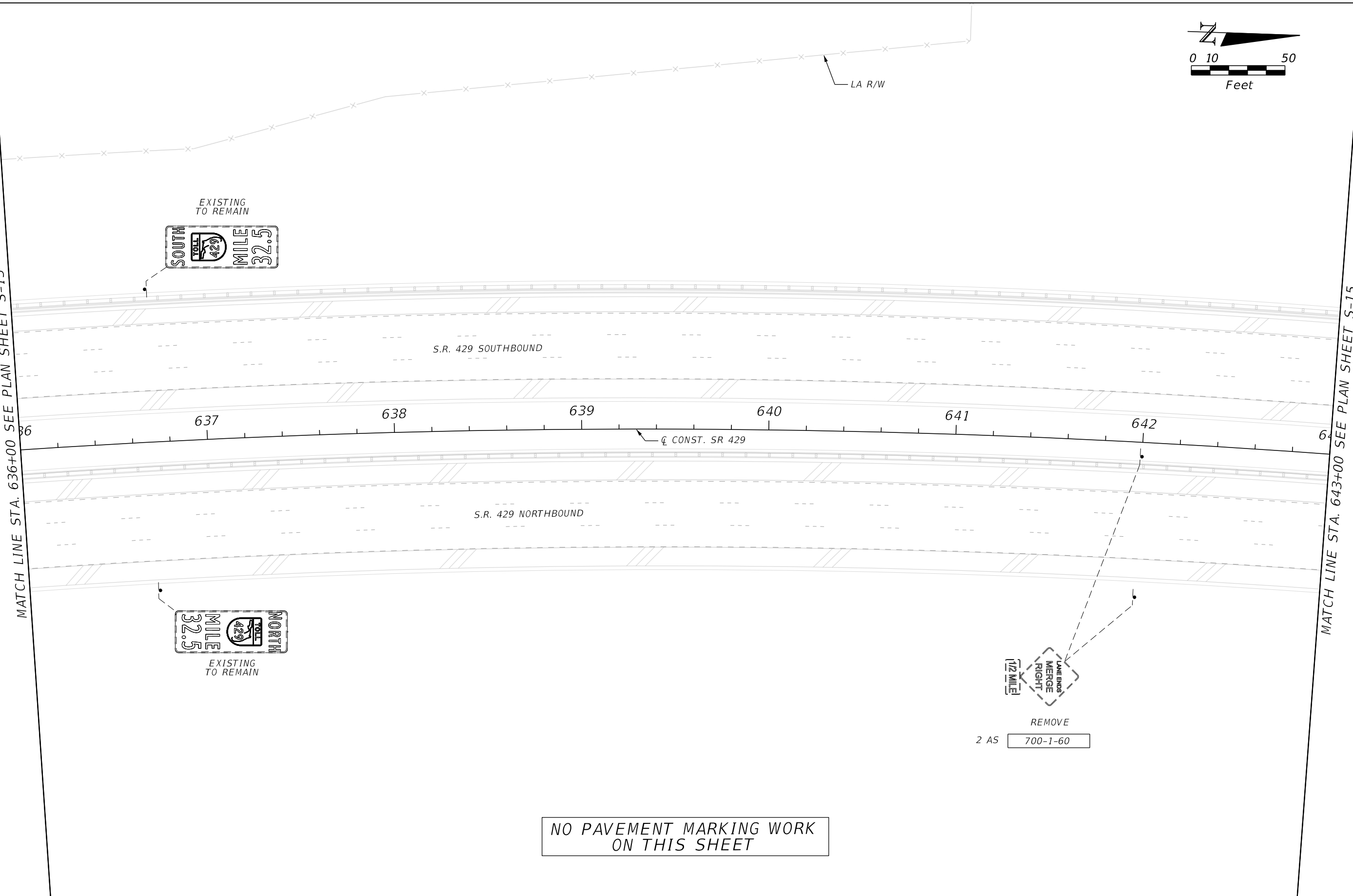
**SIGNING AND PAVEMENT
 MARKING PLANS
 S.R. 429**

SHEET
 NO.
 S-13



MATCH LINE STA. 636+00 SEE PLAN SHEET S-13

MATCH LINE STA. 643+00 SEE PLAN SHEET S-15



NO PAVEMENT MARKING WORK
ON THIS SHEET

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

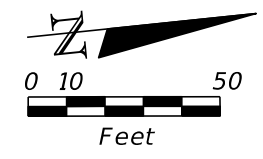
**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

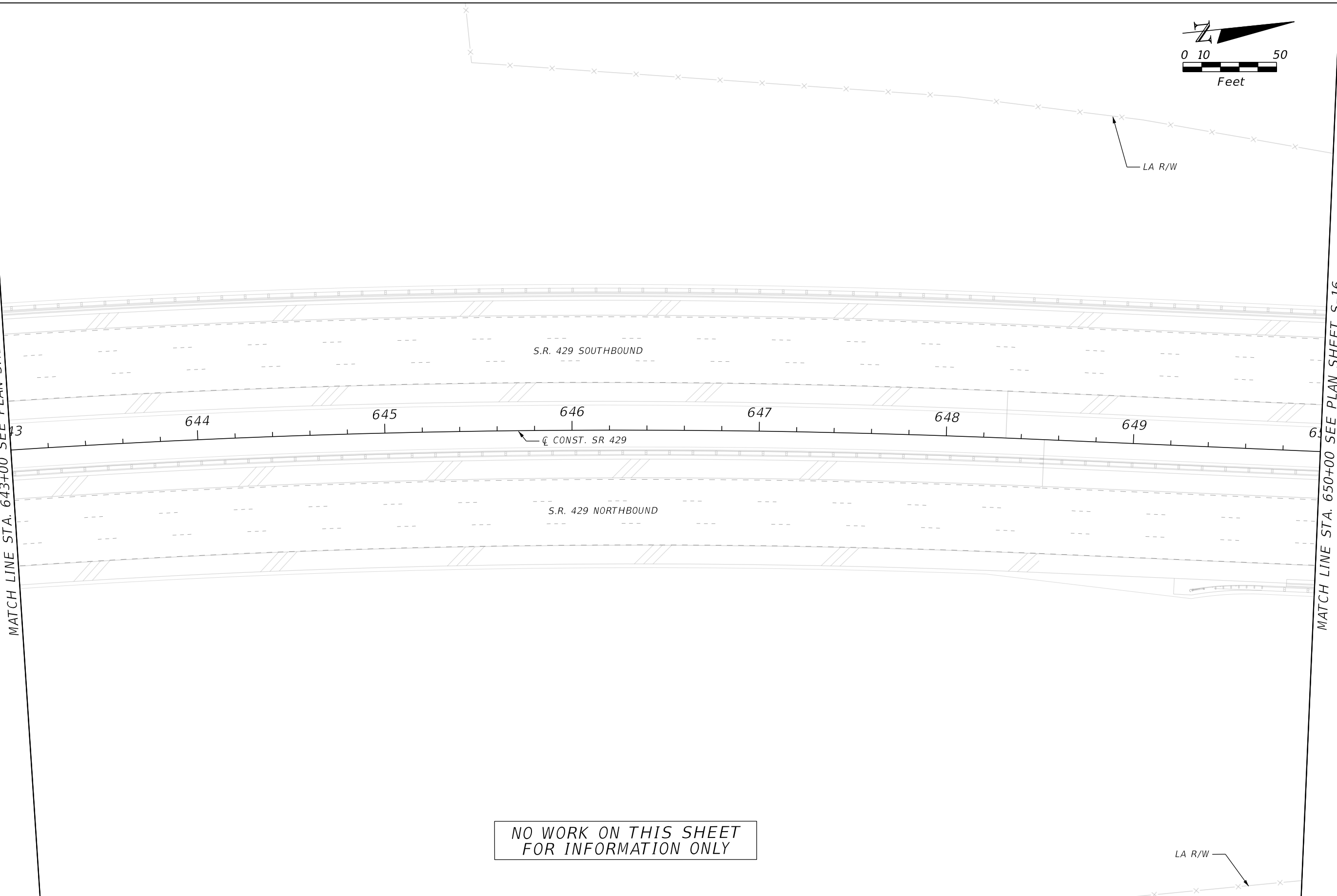
**SIGNING AND PAVEMENT
 MARKING PLANS
 S.R. 429**

SHEET
 NO.
S-14



MATCH LINE STA. 643+00 SEE PLAN SHEET S-14

MATCH LINE STA. 650+00 SEE PLAN SHEET S-16



NO WORK ON THIS SHEET
FOR INFORMATION ONLY

LA R/W

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
EXPRESSWAY AUTHORITY**

ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY

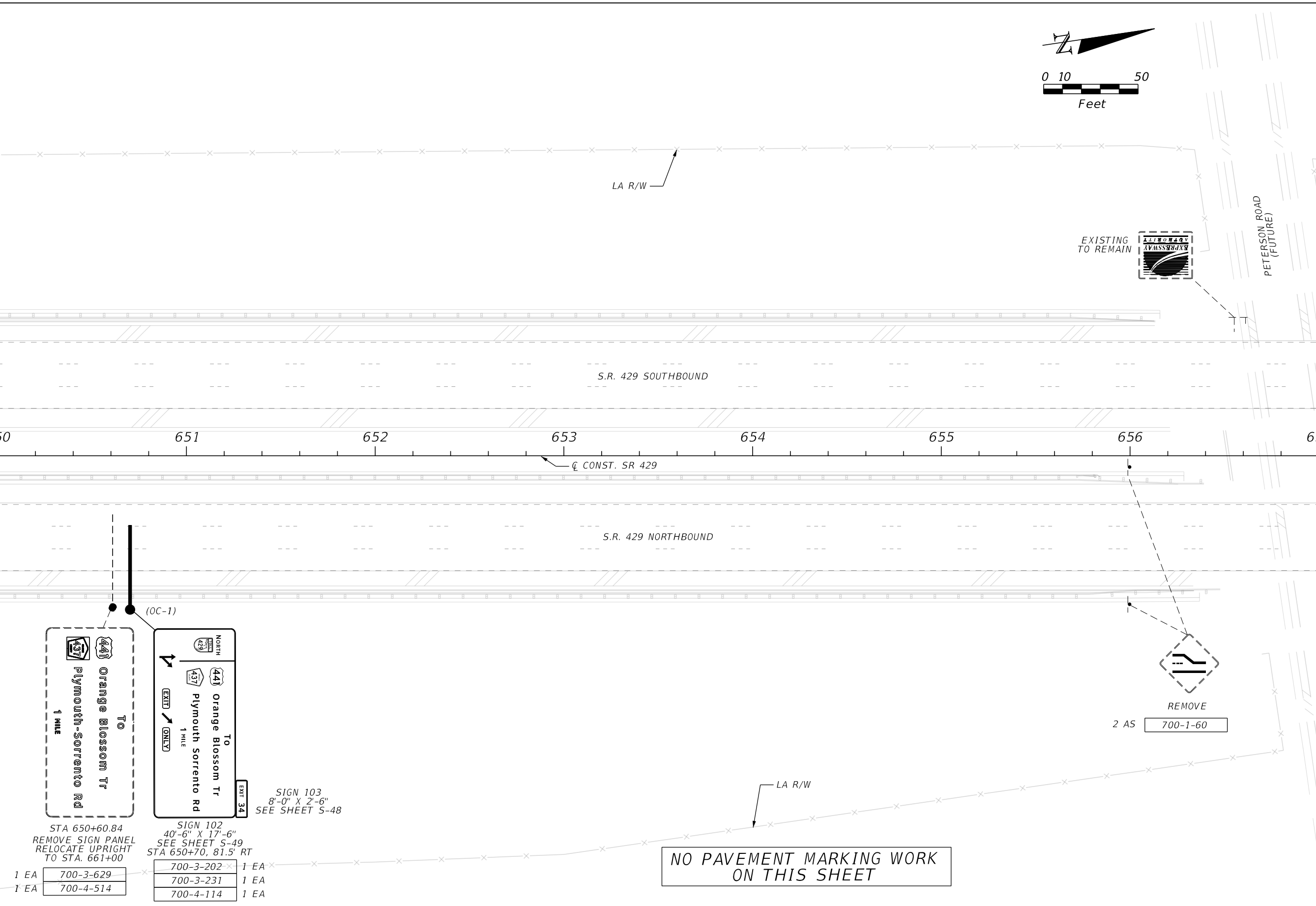
**SIGNING AND PAVEMENT
MARKING PLANS
S.R. 429**

SHEET
NO.
S-15

55P-PLANS
 MODEL:
 SHEET SIZE:
 PLOT SCALE:

PRINT DRIVER:
 PEN TABLE:

MATCH LINE STA. 650+00 SEE PLAN SHEET S-15



MATCH LINE STA. 657+00 SEE PLAN SHEET S-17

REVISIONS		DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

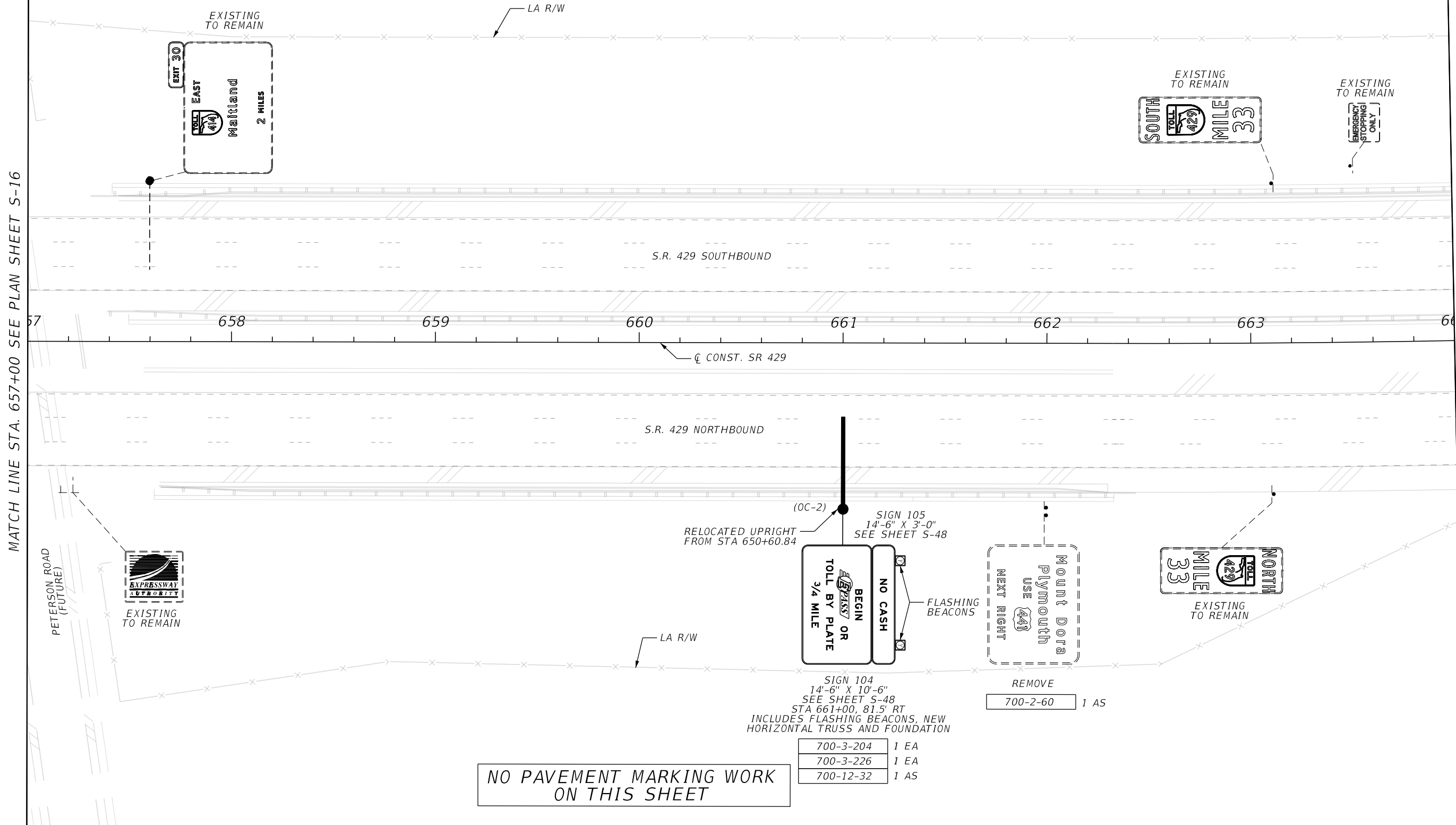
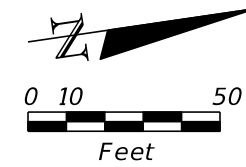
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-16



MATCH LINE STA. 657+00 SEE PLAN SHEET S-16

MATCH LINE STA. 664+00 SEE PLAN SHEET S-18

NO PAVEMENT MARKING WORK
ON THIS SHEET

700-3-204	1 EA
700-3-226	1 EA
700-12-32	1 AS

REMOVE
700-2-60 1 AS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

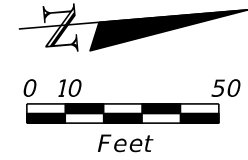
ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

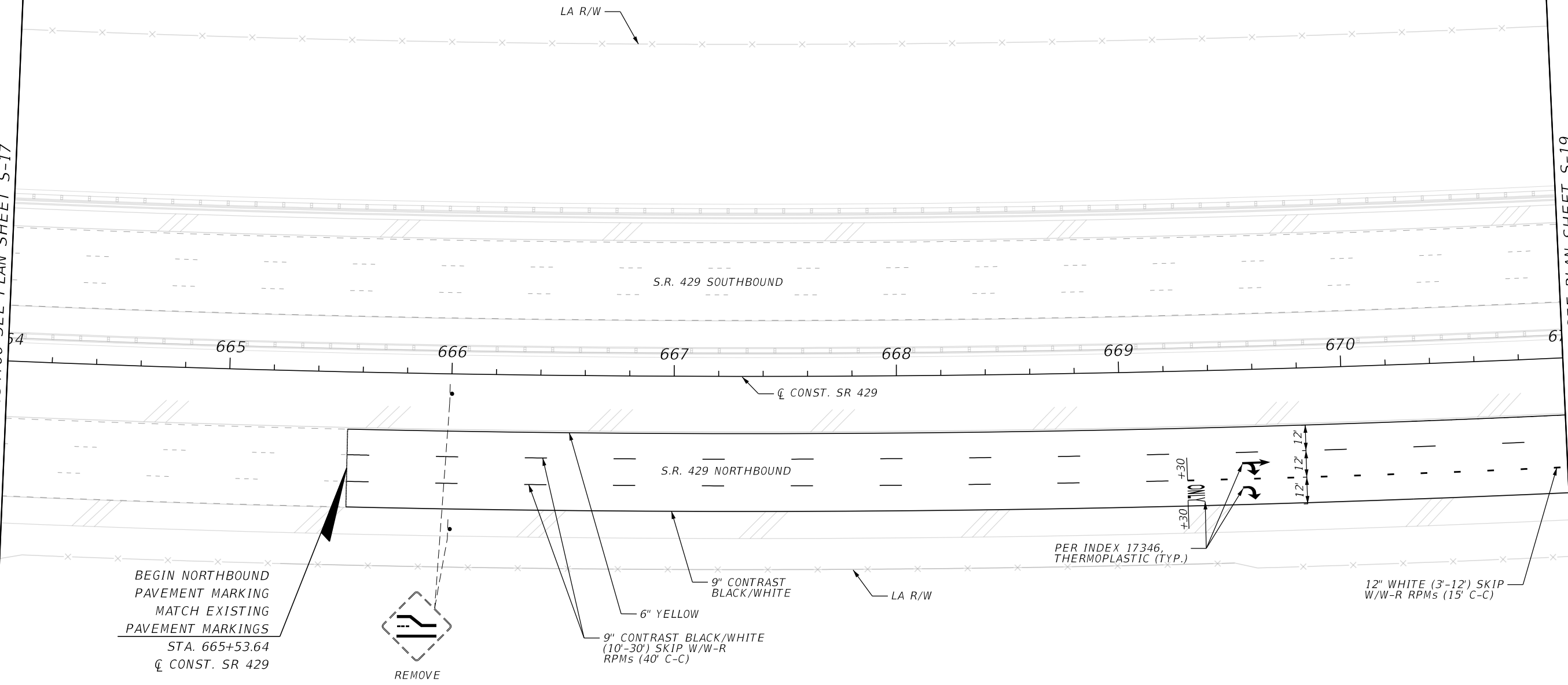
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-17

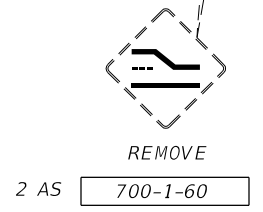


MATCH LINE STA. 654+00 SEE PLAN SHEET S-17

MATCH LINE STA. 671+00 SEE PLAN SHEET S-19



BEGIN NORTHBOUND
 PAVEMENT MARKING
 MATCH EXISTING
 PAVEMENT MARKINGS
 STA. 665+53.64
 CL CONST. SR 429



9" CONTRAST BLACK/WHITE
 (10'-30') SKIP W/W-R
 RPMs (40' C-C)

6" YELLOW

9" CONTRAST BLACK/WHITE

PER INDEX 17346,
 THERMOPLASTIC (TYP.)

12" WHITE (3'-12') SKIP
 W/W-R RPMs (15' C-C)

NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

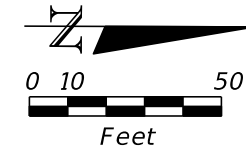
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

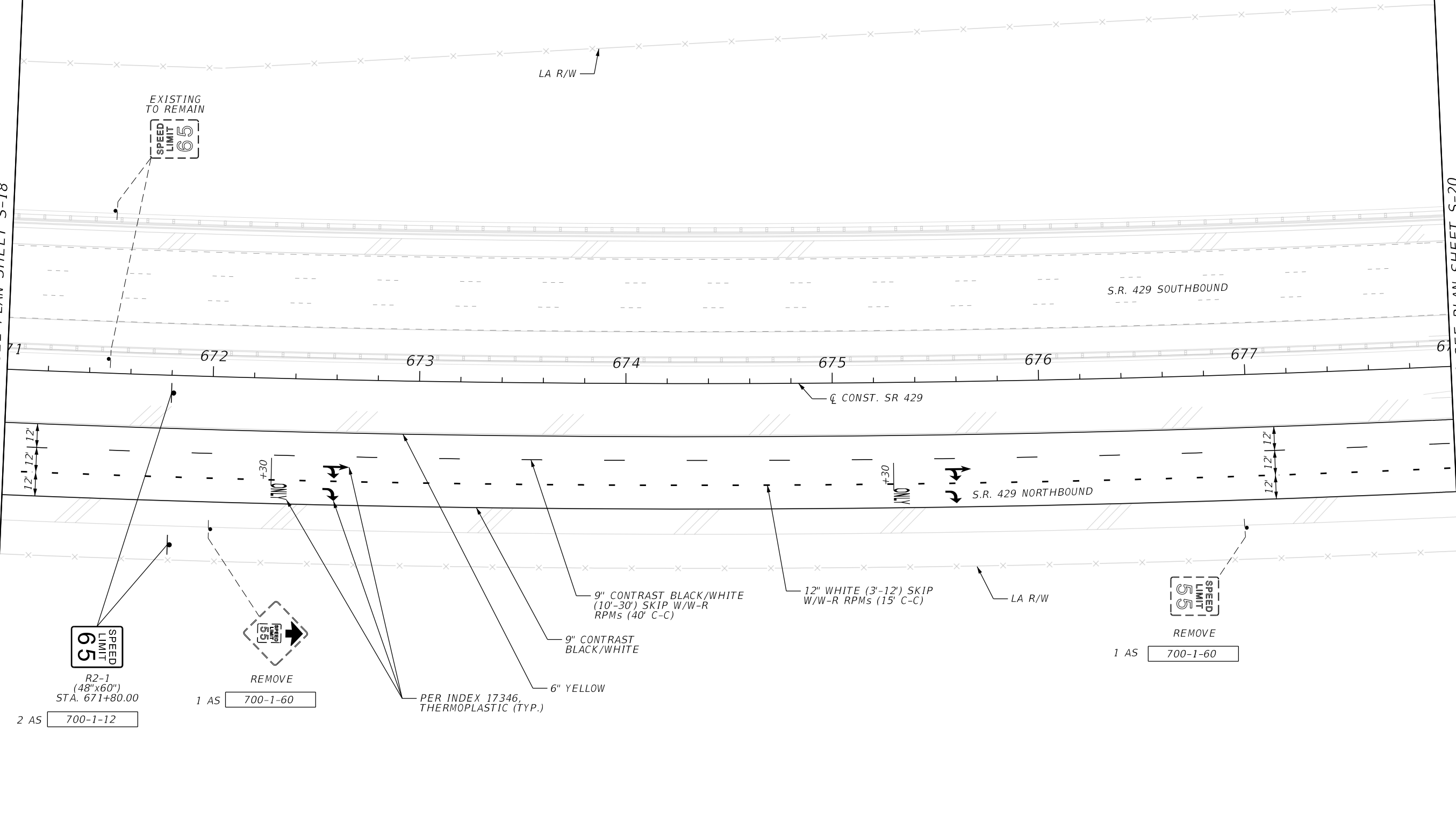
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-18



MATCH LINE STA. 671+00 SEE PLAN SHEET S-18

MATCH LINE STA. 678+00 SEE PLAN SHEET S-20



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB

HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

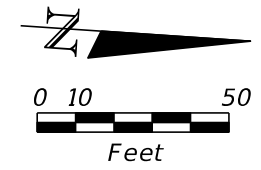
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

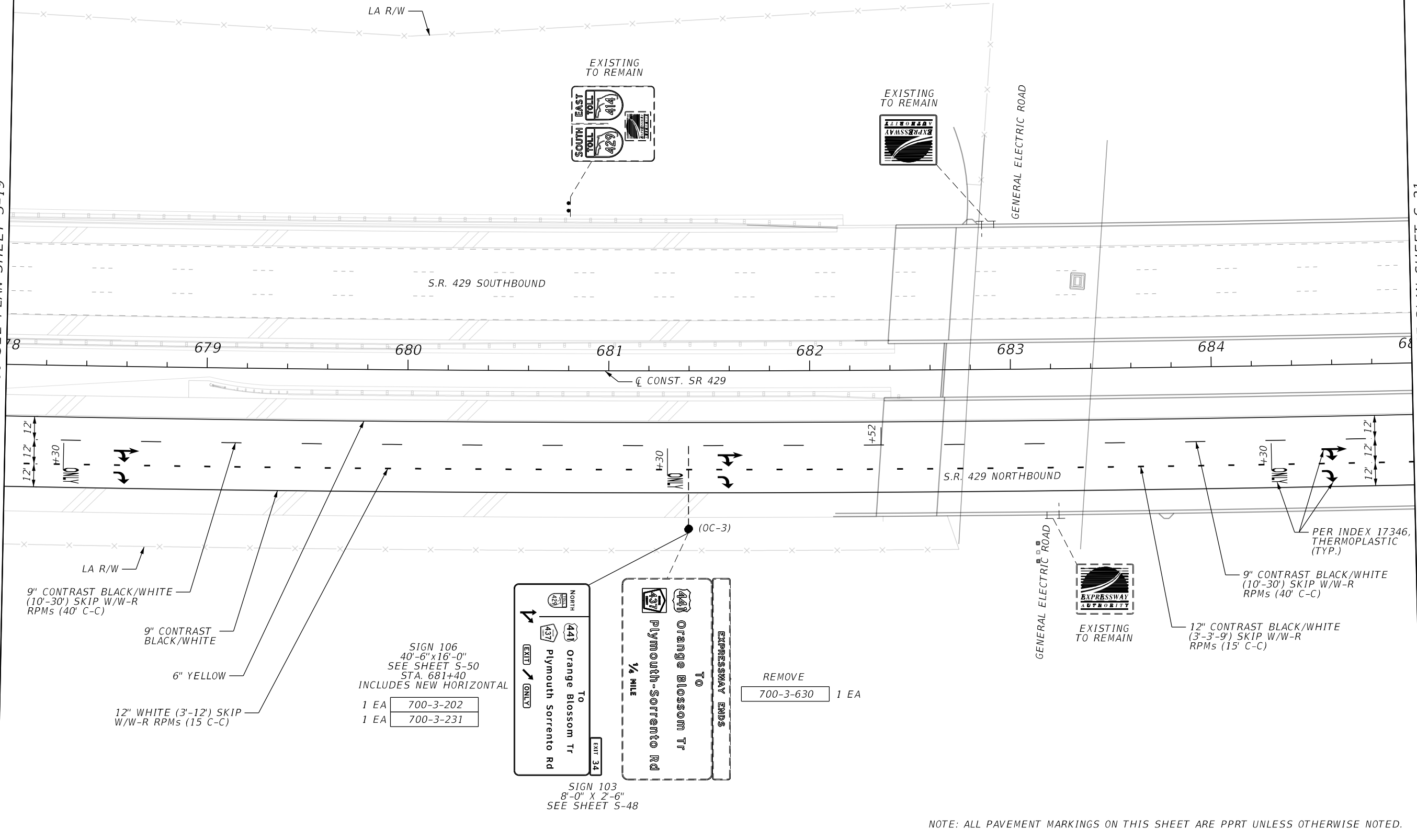
SIGNING AND PAVEMENT MARKING PLANS
 S.R. 429

SHEET NO.
S-19



MATCH LINE STA. 678+00 SEE PLAN SHEET S-19

MATCH LINE STA. 685+00 SEE PLAN SHEET S-21



9" CONTRAST BLACK/WHITE
 (10'-30') SKIP W/W-R
 RPMs (40' C-C)

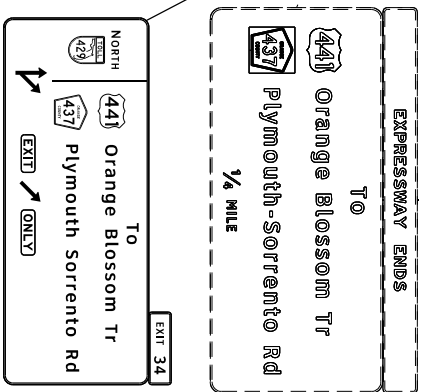
9" CONTRAST
 BLACK/WHITE

6" YELLOW

12" WHITE (3'-12") SKIP
 W/W-R RPMs (15' C-C)

SIGN 106
 40'-6" x 16'-0"
 SEE SHEET S-50
 STA. 681+40
 INCLUDES NEW HORIZONTAL

1 EA	700-3-202
1 EA	700-3-231



SIGN 103
 8'-0" x 2'-6"
 SEE SHEET S-48

REMOVE
 700-3-630 1 EA

NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB

HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

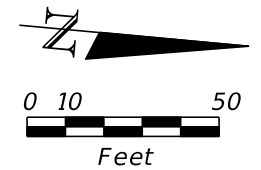
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

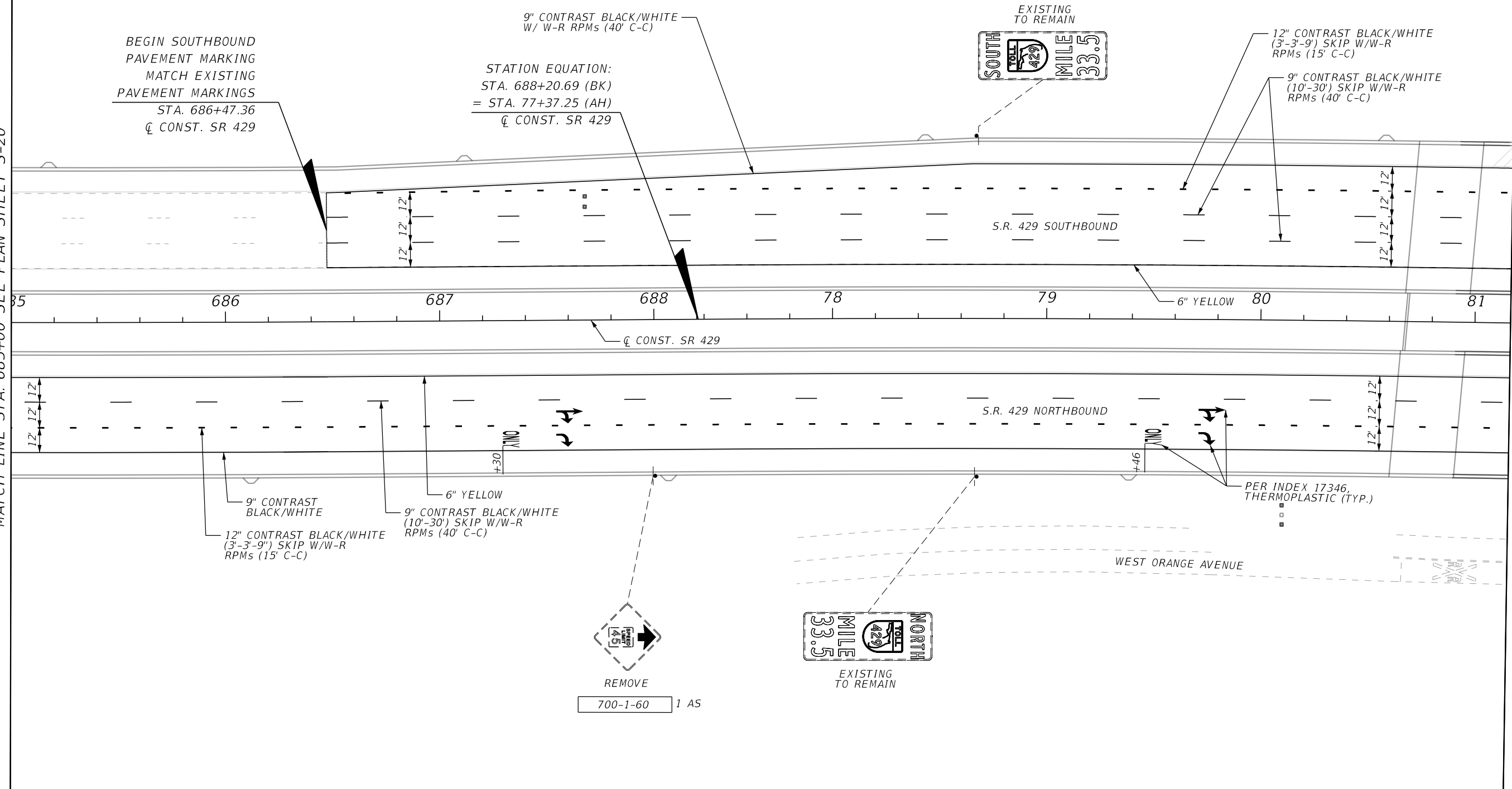
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-20



MATCH LINE STA. 685+00 SEE PLAN SHEET S-20

MATCH LINE STA. 81+16.56 SEE PLAN SHEET S-22



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

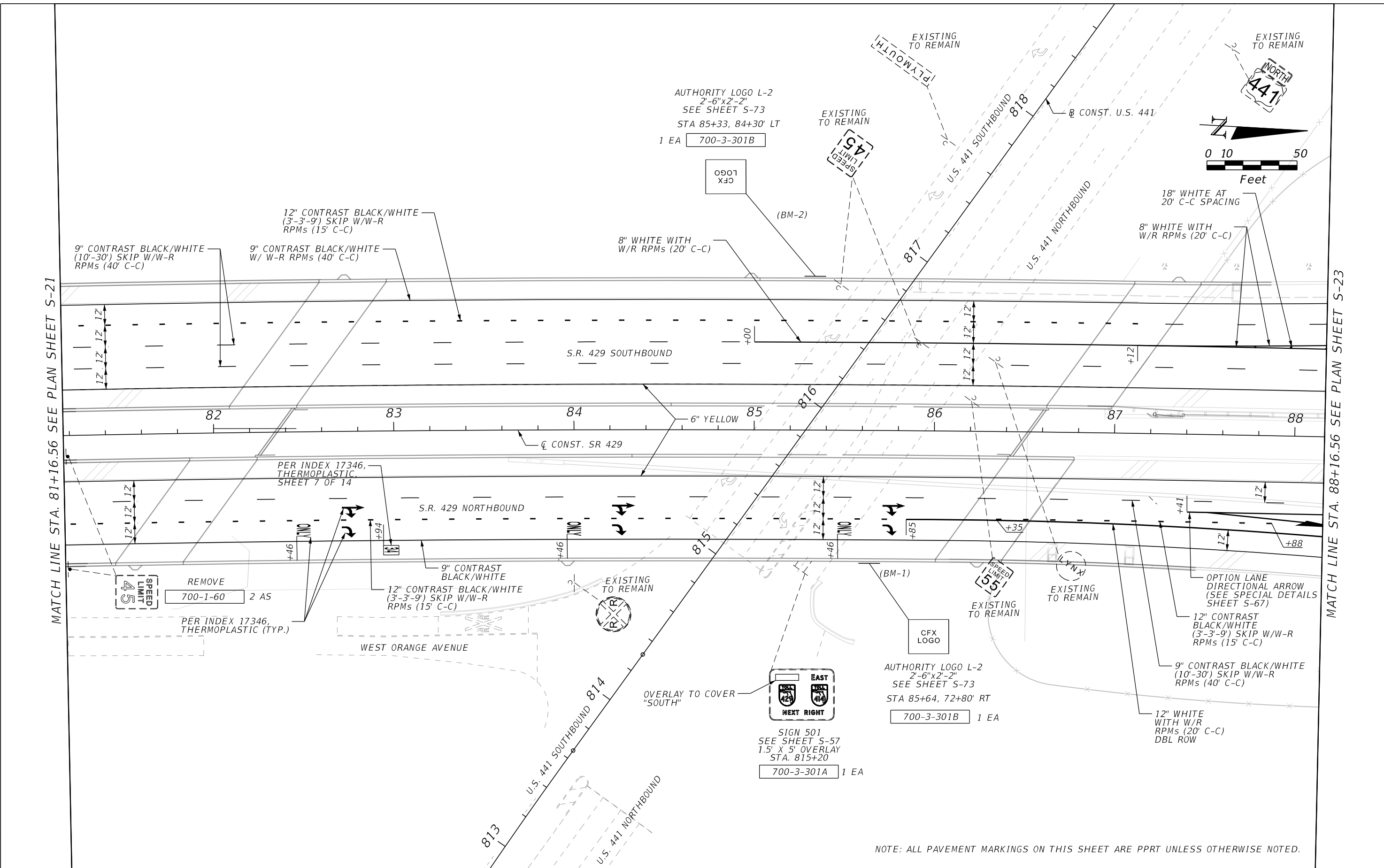
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-21



MATCH LINE STA. 81+16.56 SEE PLAN SHEET S-21

MATCH LINE STA. 88+16.56 SEE PLAN SHEET S-23

NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

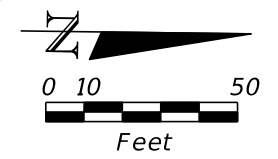
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

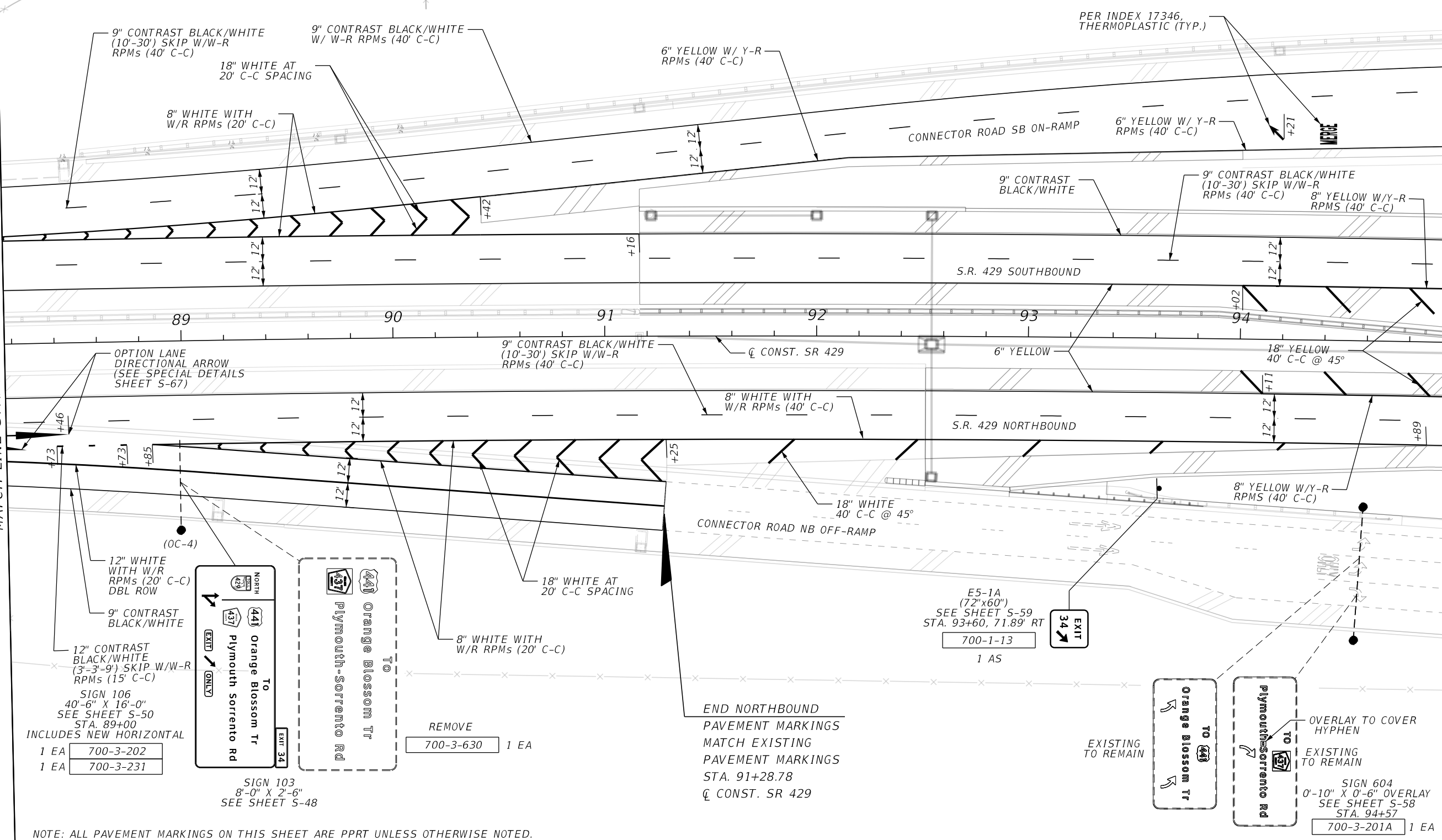
SIGNING AND PAVEMENT MARKING PLANS
 S.R. 429

SHEET NO.
 S-22



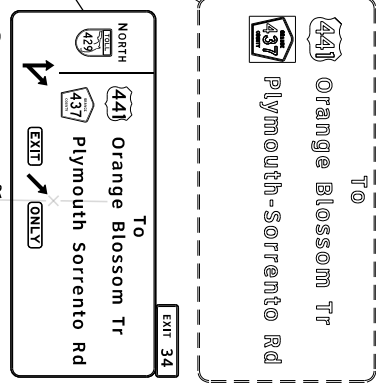
MATCH LINE STA. 88+16.56 SEE PLAN SHEET S-22

MATCH LINE STA. 95+00.00 SEE PLAN SHEET S-24



OPTION LANE DIRECTIONAL ARROW (SEE SPECIAL DETAILS SHEET S-67)

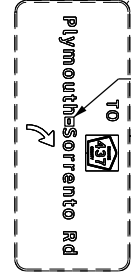
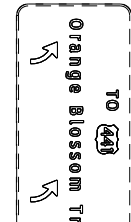
12" WHITE WITH W/R RPMs (20' C-C) DBL ROW
 9" CONTRAST BLACK/WHITE
 12" CONTRAST BLACK/WHITE (3'-3"-9") SKIP W/W-R RPMs (15' C-C)
 SIGN 106 40'-6" X 16'-0" SEE SHEET S-50 STA. 89+00 INCLUDES NEW HORIZONTAL
 1 EA 700-3-202
 1 EA 700-3-231



REMOVE 700-3-630 1 EA

END NORTHBOUND PAVEMENT MARKINGS MATCH EXISTING PAVEMENT MARKINGS STA. 91+28.78 ϕ CONST. SR 429

E5-1A (72"x60") SEE SHEET S-59 STA. 93+60, 71.89' RT
 700-1-13 1 AS



OVERLAY TO COVER HYPHEN EXISTING TO REMAIN
 SIGN 604 0'-10" X 0'-6" OVERLAY SEE SHEET S-58 STA. 94+57
 700-3-201A 1 EA

NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

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 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

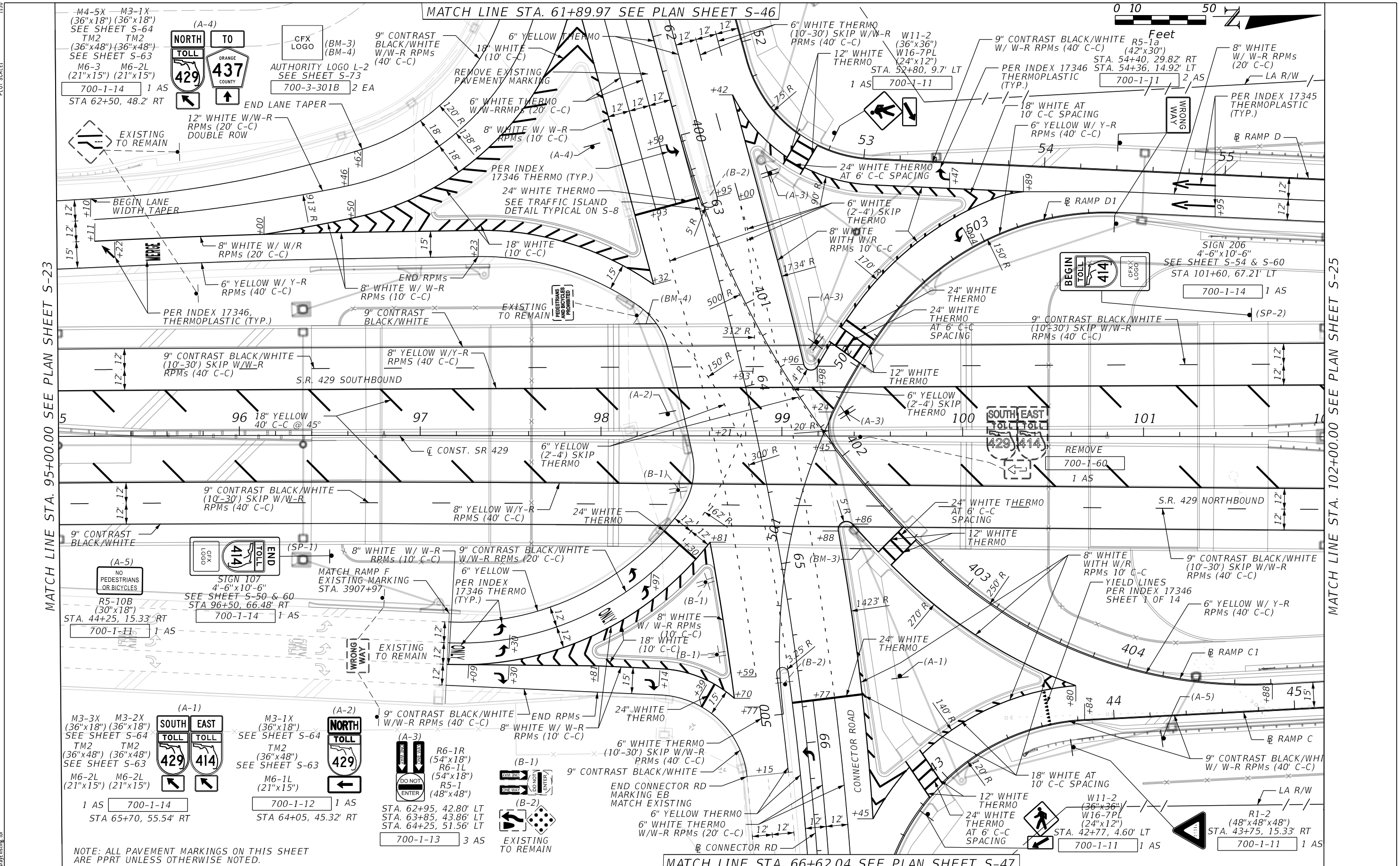
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
 S.R. 429

SHEET NO.
 S-23

13SP-PLAN13
 1741 (in.)
 1:50
 MODEL: SHEET SIZE: PLOT SCALE:
 PRINT DRIVER: FOOTDF: pldg FOOT: GraphSoft.dwg
 PEN TABLE:



MATCH LINE STA. 95+00.00 SEE PLAN SHEET S-23

MATCH LINE STA. 102+00.00 SEE PLAN SHEET S-25

MATCH LINE STA. 61+89.97 SEE PLAN SHEET S-46

MATCH LINE STA. 66+62.04 SEE PLAN SHEET S-47

NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

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 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
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 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO.	PROJECT NO.
SR 429	429-202

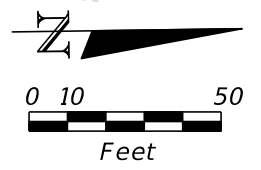
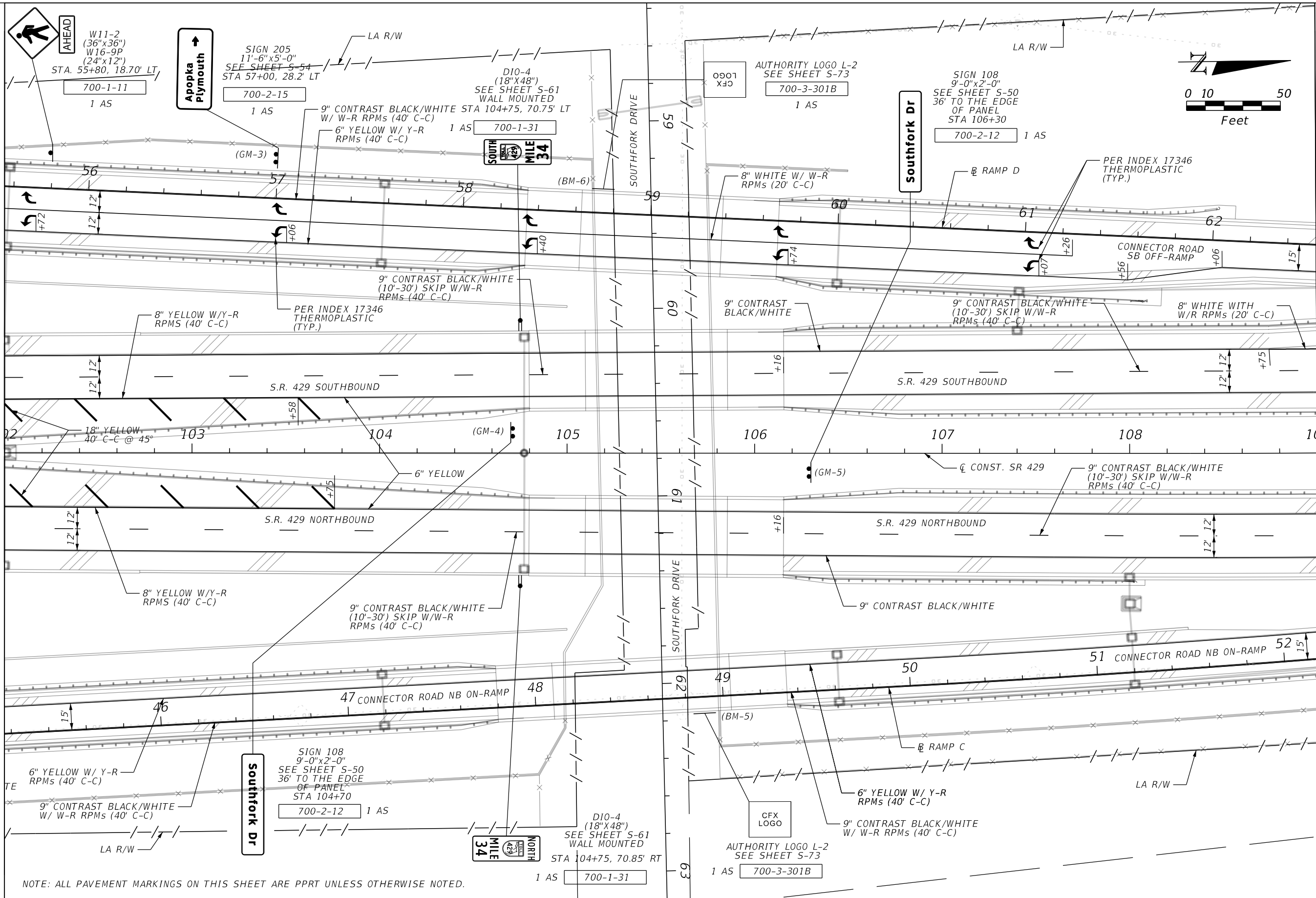
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
 S.R. 429

SHEET NO.
 S-24

MATCH LINE STA. 102+00.00 SEE PLAN SHEET S-24

MATCH LINE STA. 109+00.00 SEE PLAN SHEET S-26



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
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ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

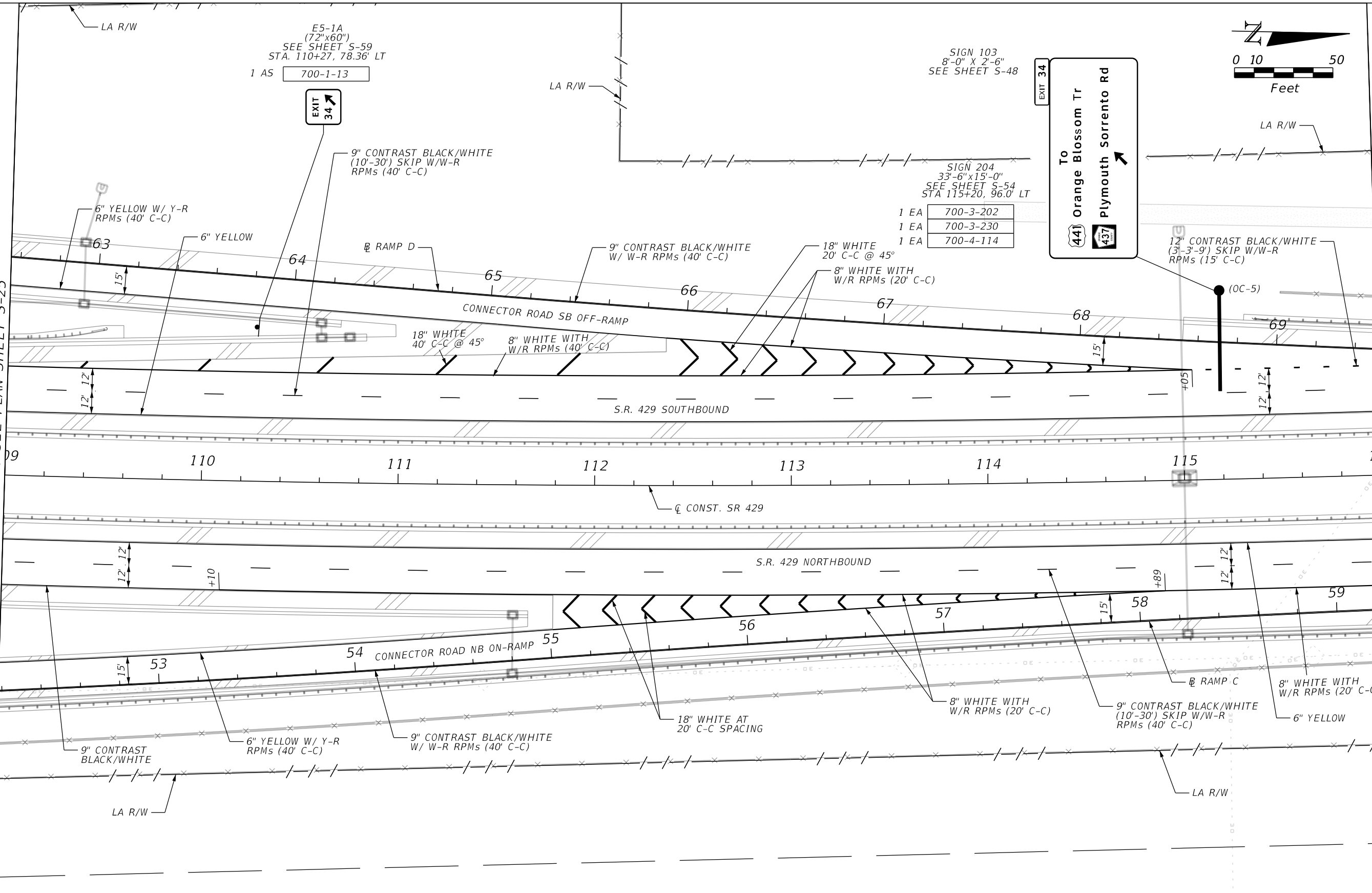
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-25

155P-PLAN15
17411 (in.)
1:50
MODEL:
SHEET SIZE:
PLOT SCALE:

MATCH LINE STA. 109+00.00 SEE PLAN SHEET S-25

MATCH LINE STA. 116+00.00 SEE PLAN SHEET S-27

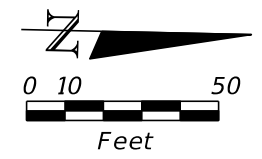
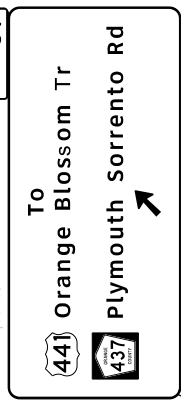


E5-1A
(72"x60")
SEE SHEET S-59
STA. 110+27, 78.36' LT
1 AS 700-1-13

SIGN 103
8'-0" X 2'-6"
SEE SHEET S-48

SIGN 204
33'-6" X 15'-0"
SEE SHEET S-54
STA 115+20, 96.0' LT

1 EA 700-3-202
1 EA 700-3-230
1 EA 700-4-114



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

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HNTB
HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

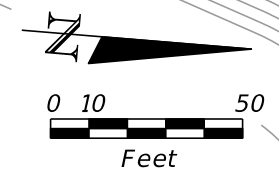
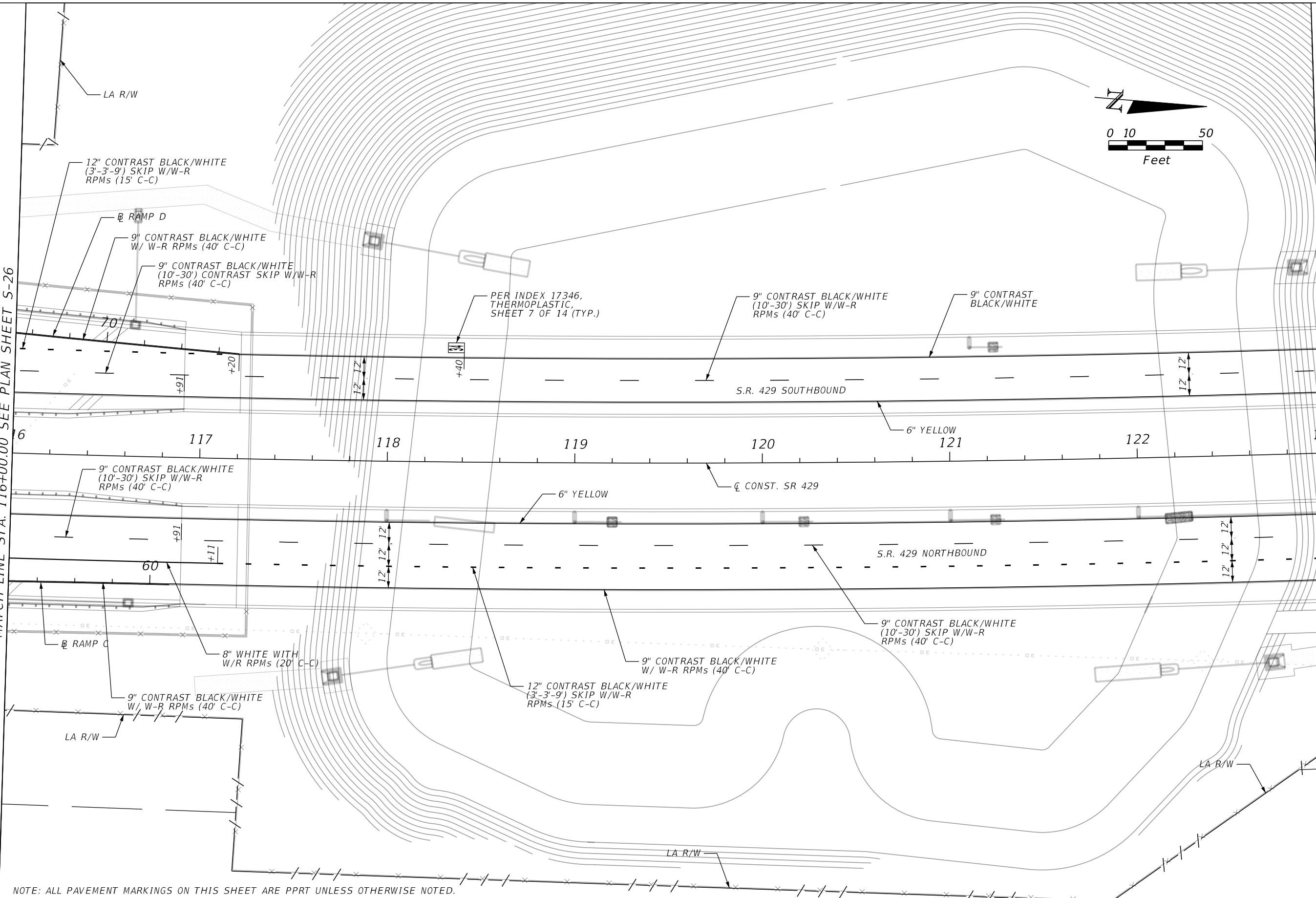
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-26

PRINT DRIVER:
PEN TABLE:
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F:\001\155P-PLAN15.tbl

MATCH LINE STA. 116+00.00 SEE PLAN SHEET S-26

MATCH LINE STA. 123+00.00 SEE PLAN SHEET S-28



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS			
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HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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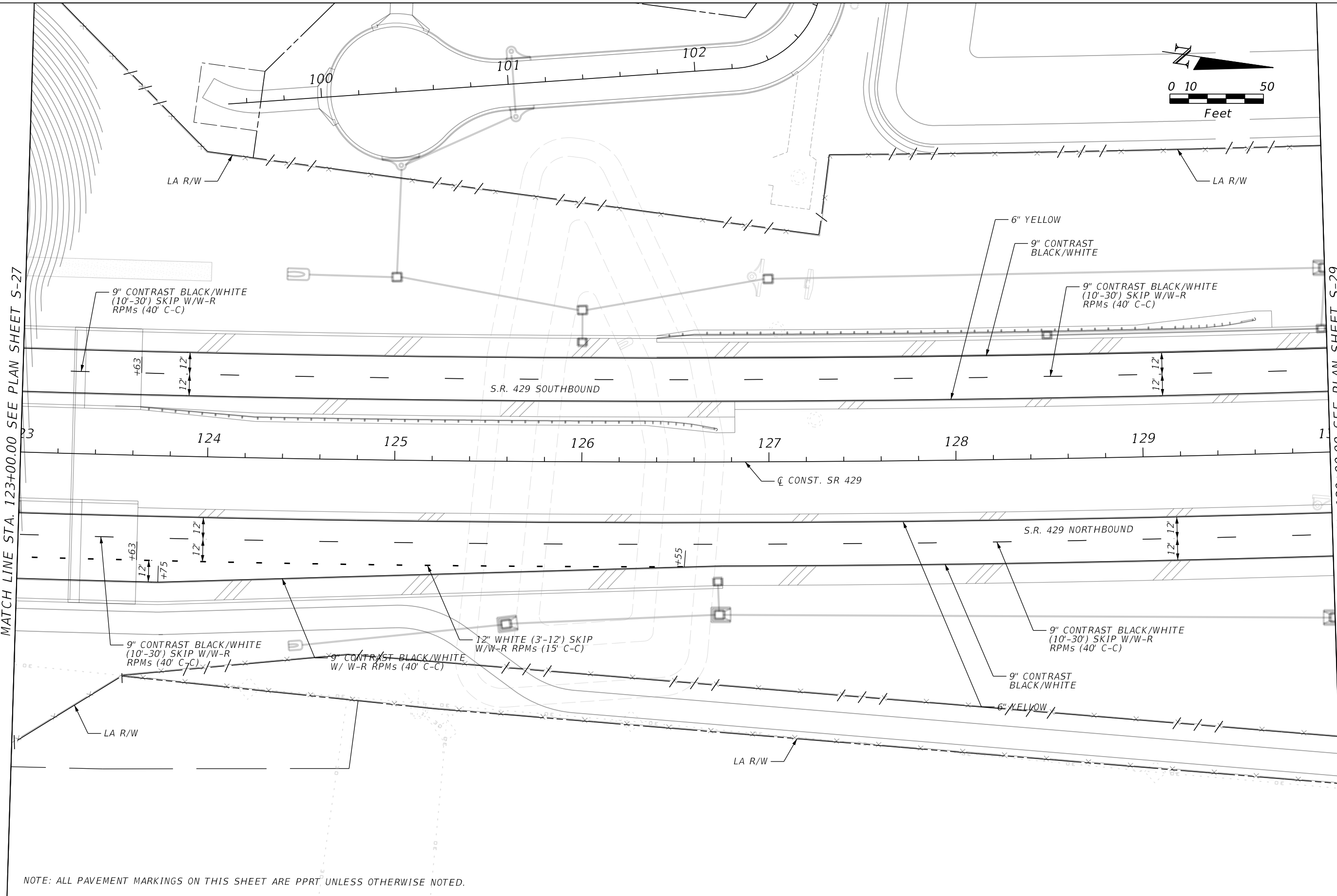
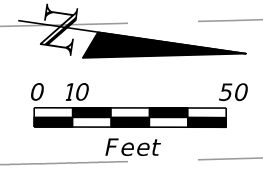
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-27

MATCH LINE STA. 123+00.00 SEE PLAN SHEET S-27

MATCH LINE STA. 130+00.00 SEE PLAN SHEET S-29



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

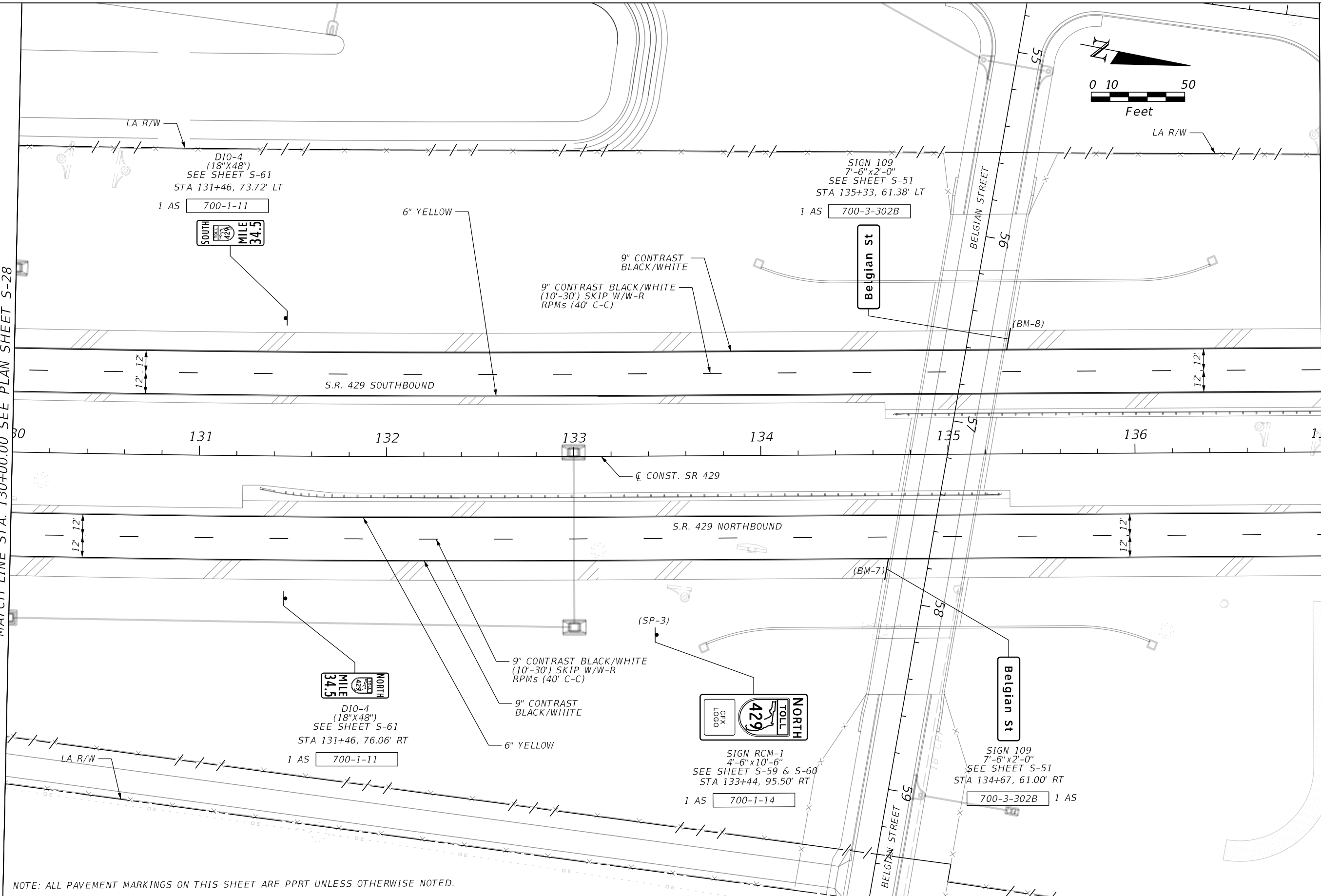
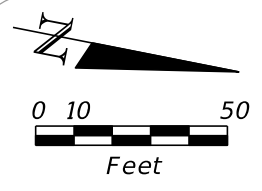
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-28

MATCH LINE STA. 130+00.00 SEE PLAN SHEET S-28

MATCH LINE STA. 137+00.00 SEE PLAN SHEET S-30



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

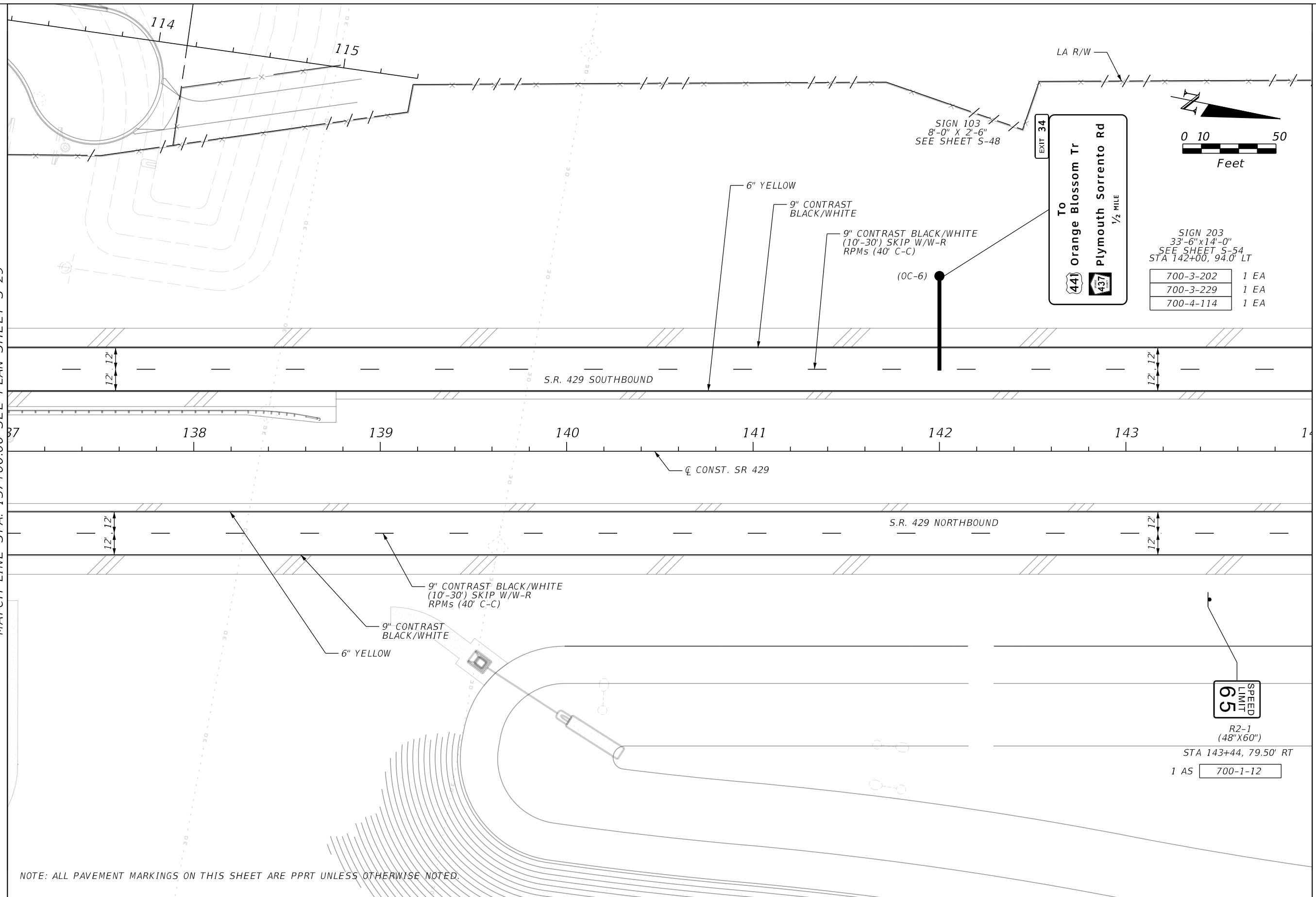
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-29

MATCH LINE STA. 137+00.00 SEE PLAN SHEET S-29

MATCH LINE STA. 144+00.00 SEE PLAN SHEET S-31



SIGN 203
 33'-6" x 14'-0"
 SEE SHEET S-54
 STA 142+00, 94.0' LT

700-3-202	1 EA
700-3-229	1 EA
700-4-114	1 EA

SPEED LIMIT
 65
 R2-1
 (48" X 60")
 STA 143+44, 79.50' RT
 1 AS 700-1-12

NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

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HNTB
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 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

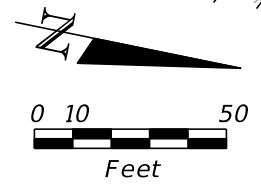
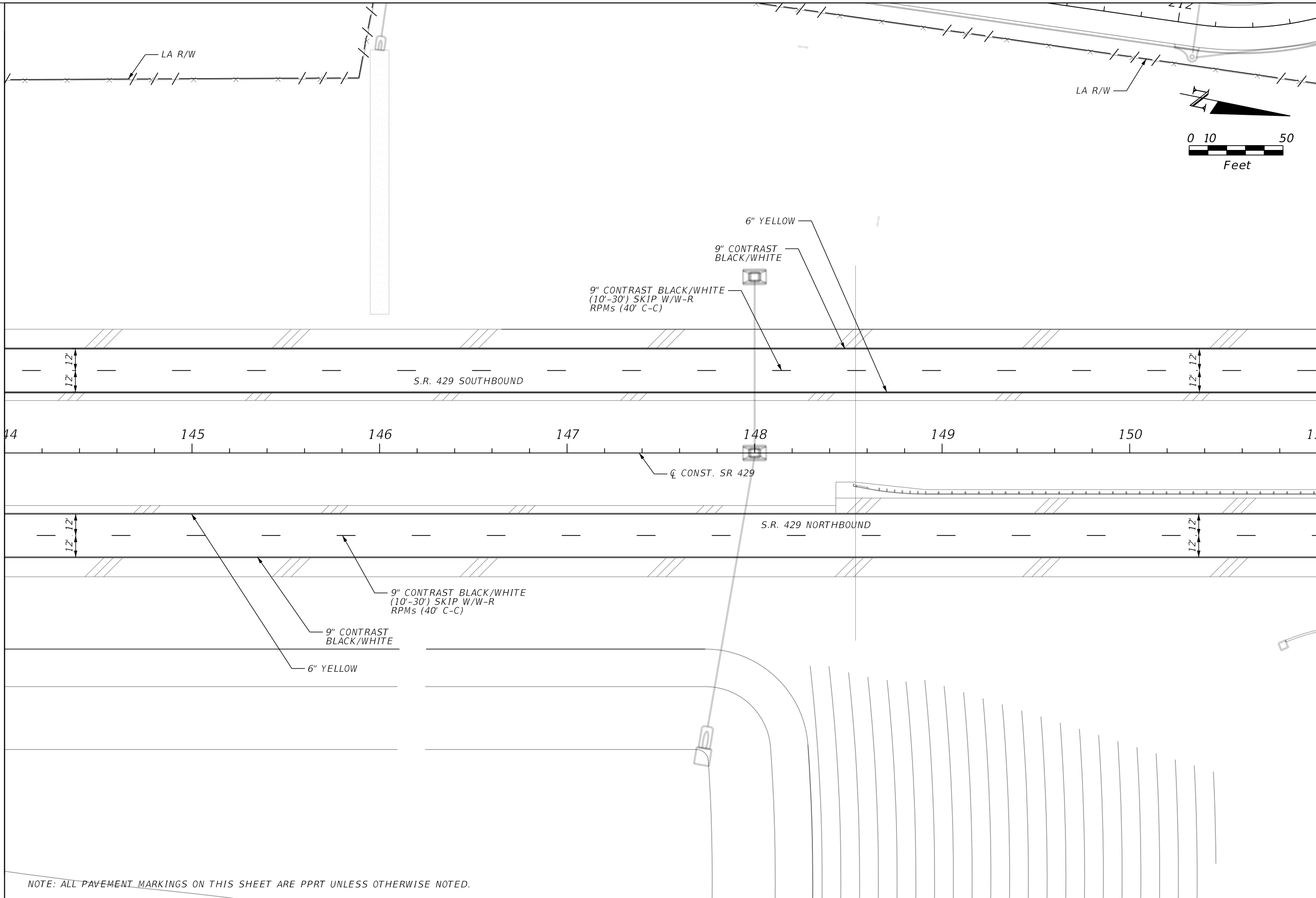
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
 S-30

MATCH LINE STA. 144+00.00 SEE PLAN SHEET S-30

MATCH LINE STA. 151+00.00 SEE PLAN SHEET S-32



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
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 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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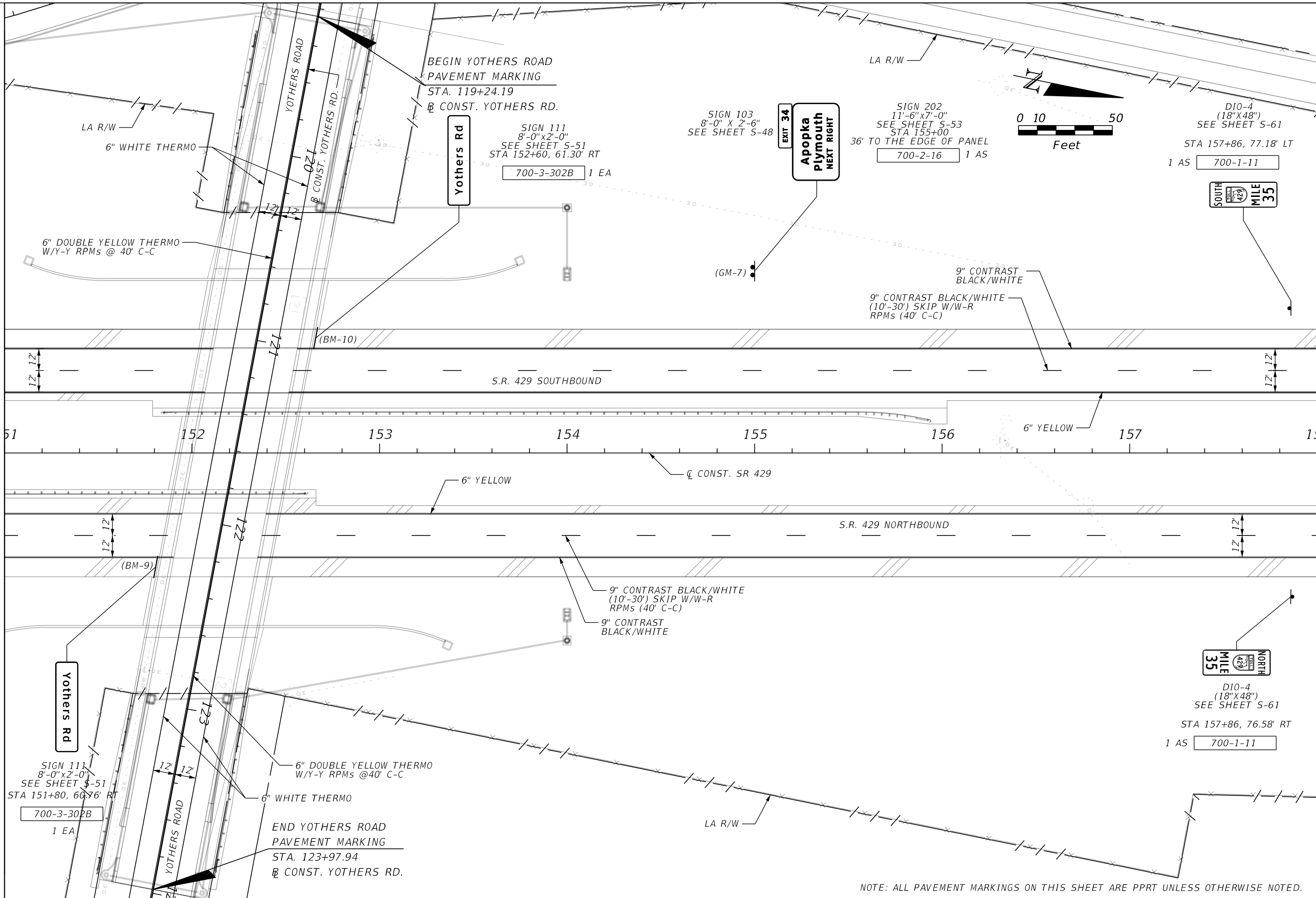
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-31

MATCH LINE STA. 151+00.00 SEE PLAN SHEET S-31

MATCH LINE STA. 158+00.00 SEE PLAN SHEET S-33



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

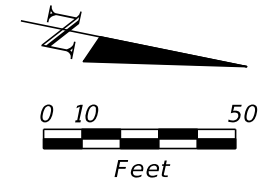
ENGINEER OF RECORD: STEVEN D. MIKSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO. SR 429	PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

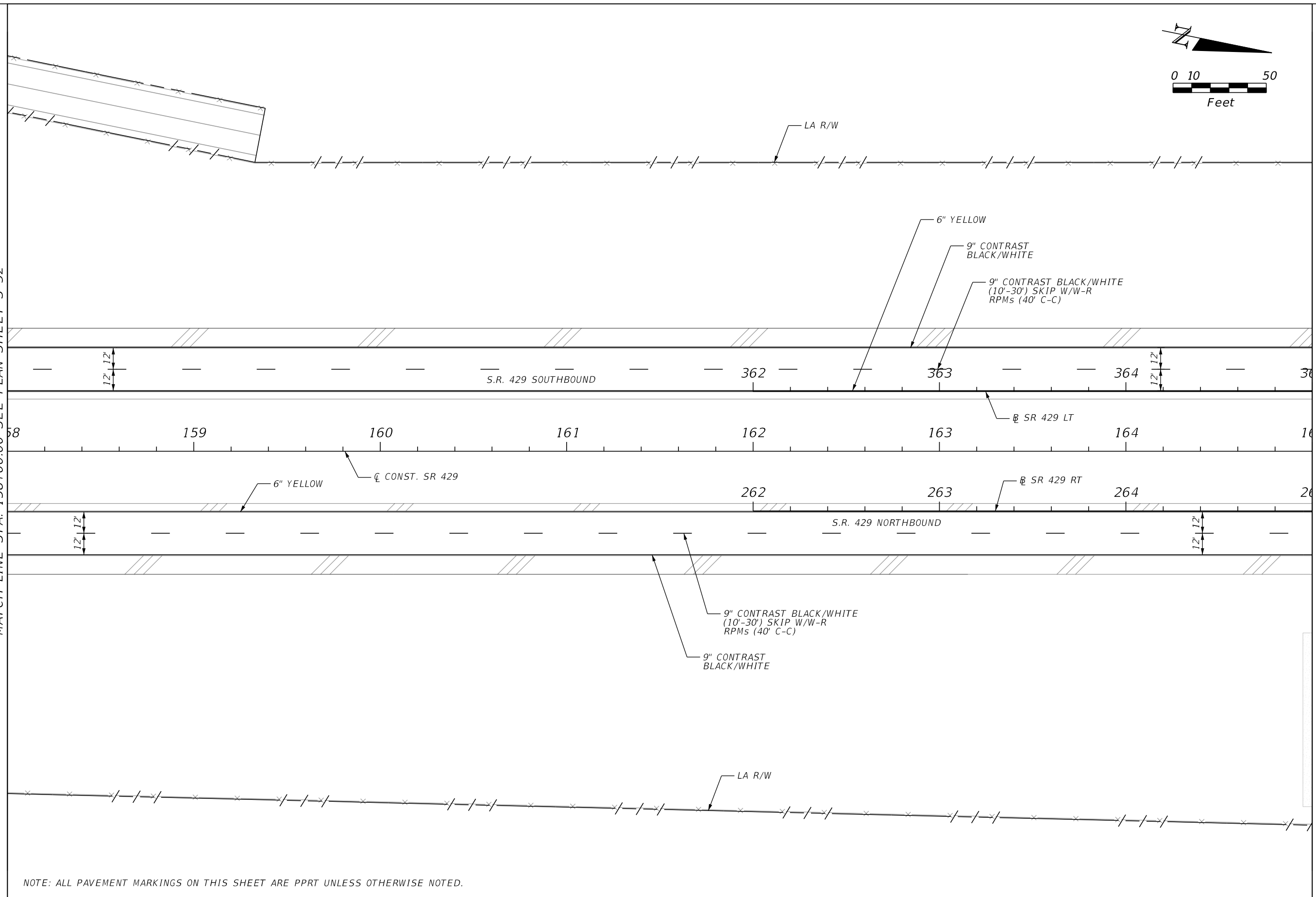
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-32



MATCH LINE STA. 158+00.00 SEE PLAN SHEET S-32

MATCH LINE STA. 165+00.00 SEE PLAN SHEET S-34



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
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**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO.	PROJECT NO.
SR 429	429-202

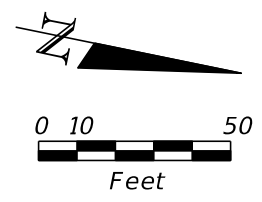
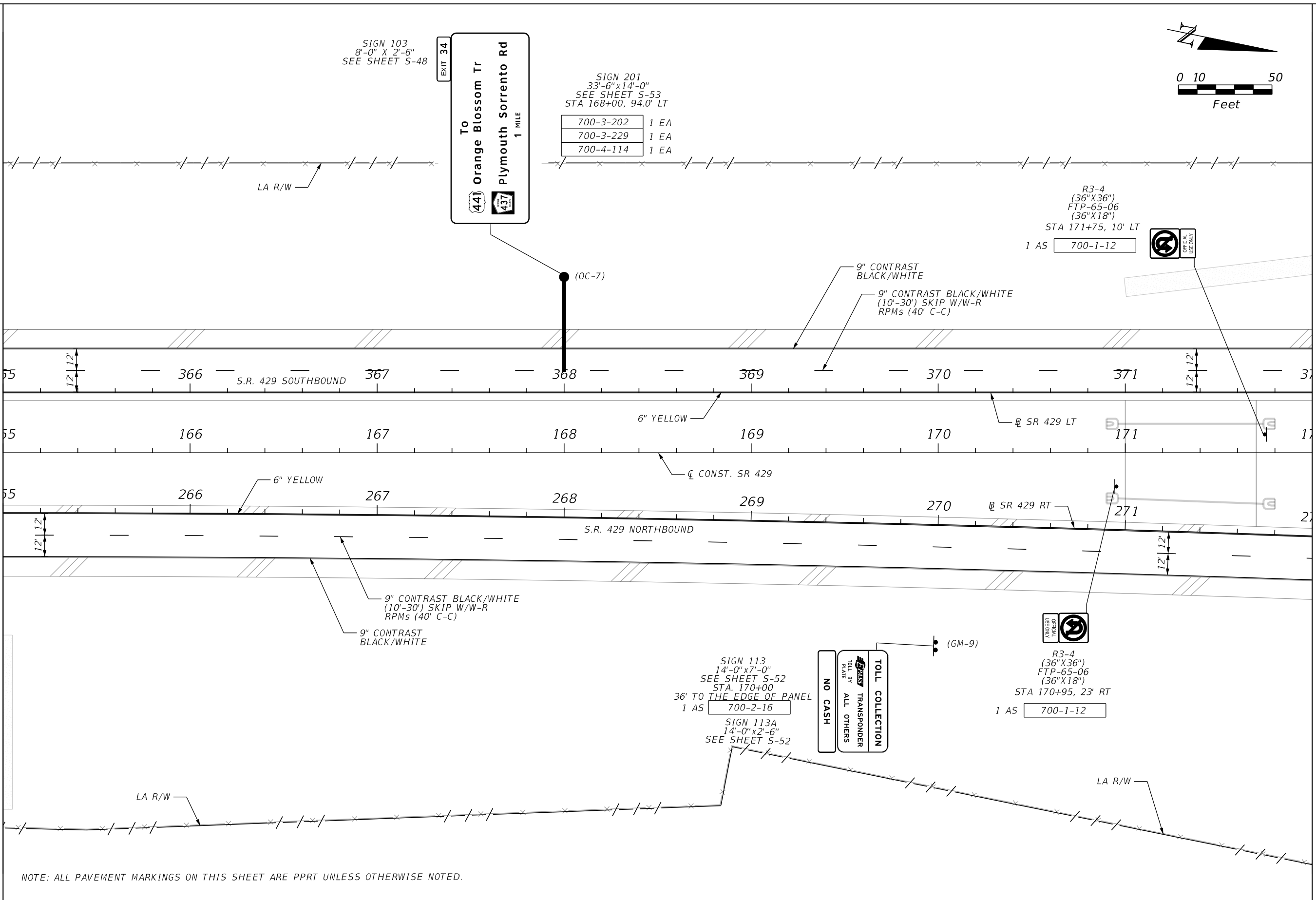
CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**SIGNING AND PAVEMENT
 MARKING PLANS
 S.R. 429**

SHEET
 NO.
 S-33

MATCH LINE STA. 165+00.00 SEE PLAN SHEET S-33

MATCH LINE STA. 172+00.00 SEE PLAN SHEET S-35



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

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HNTB
HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
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ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
FL REGISTRATION NO. 58703

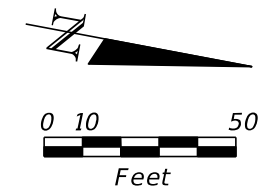
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

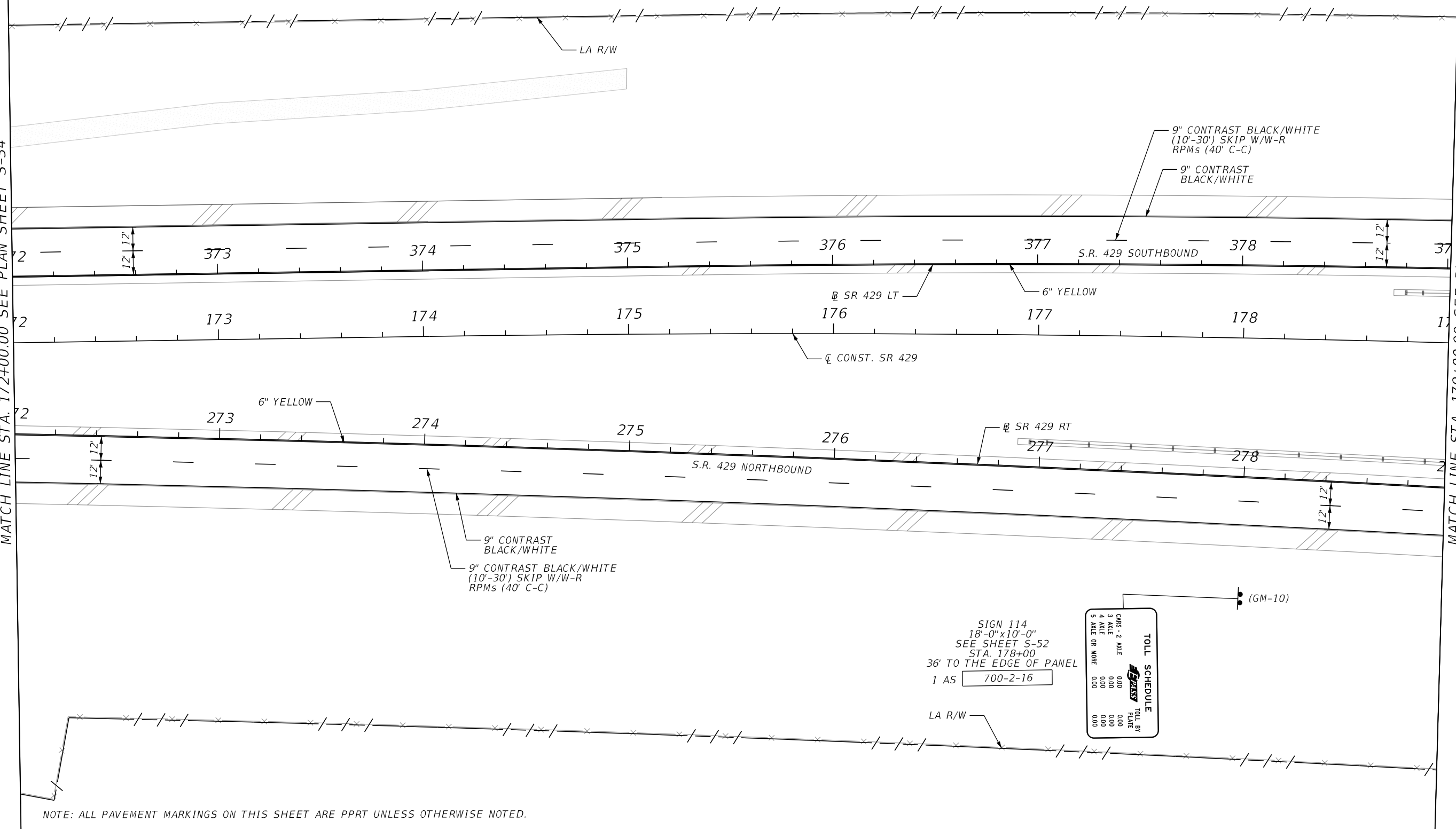
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-34



MATCH LINE STA. 172+00.00 SEE PLAN SHEET S-34

MATCH LINE STA. 179+00.00 SEE PLAN SHEET S-36



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

SIGN 114
 18'-0" x 10'-0"
 SEE SHEET S-52
 STA. 178+00
 36' TO THE EDGE OF PANEL
 1 AS 700-2-16

TOLL SCHEDULE	
CARS - 2 AXLE	0.00
3 AXLE	0.00
4 AXLE	0.00
5 AXLE OR MORE	0.00
TOLL BY PLATE	0.00

(GM-10)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

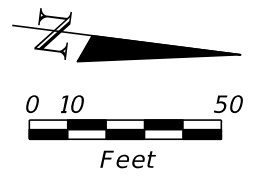
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO. SR 429	PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

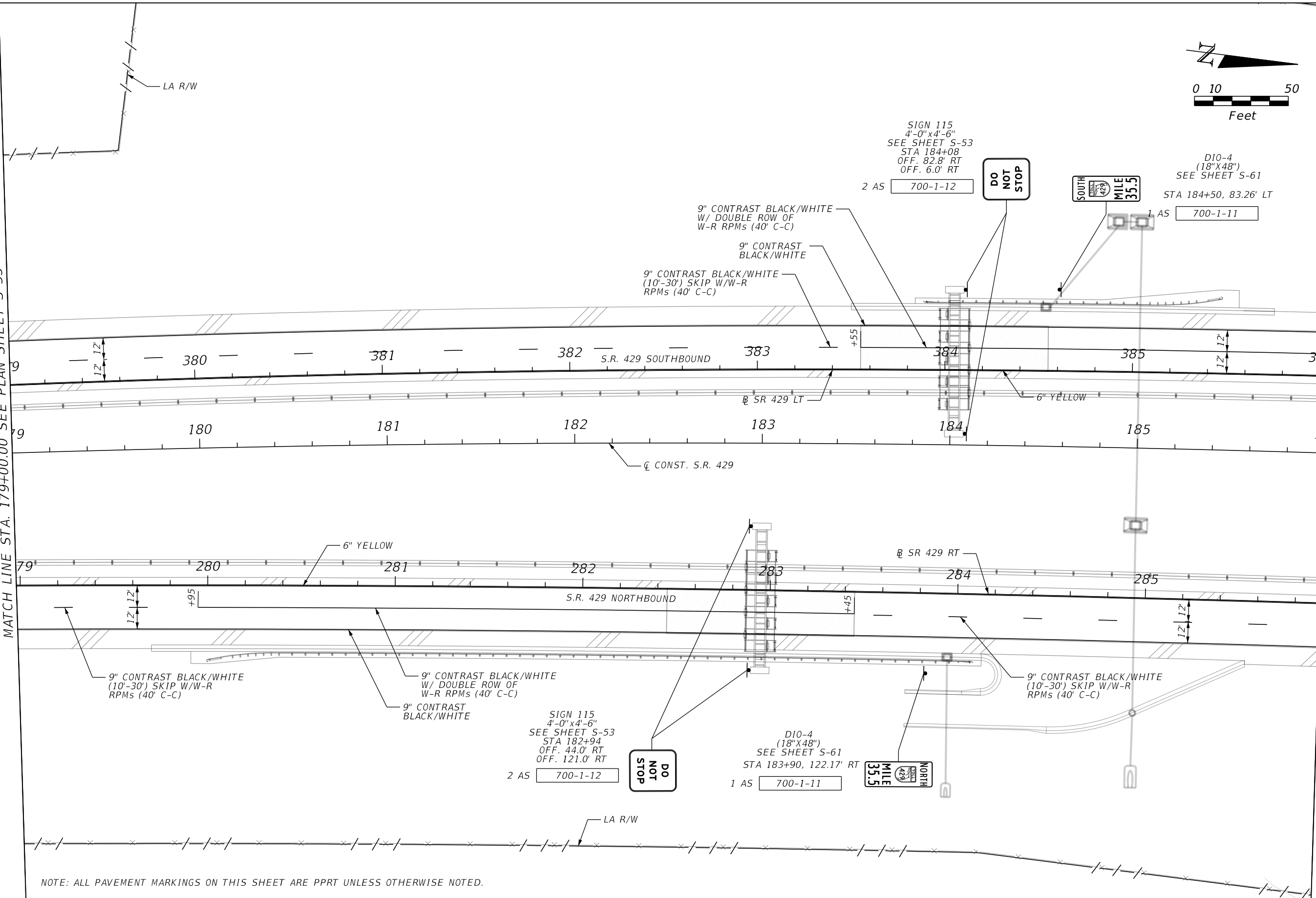
SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-35



MATCH LINE STA. 179+00.00 SEE PLAN SHEET S-35

MATCH LINE STA. 186+00.00 SEE PLAN SHEET S-37



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
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ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

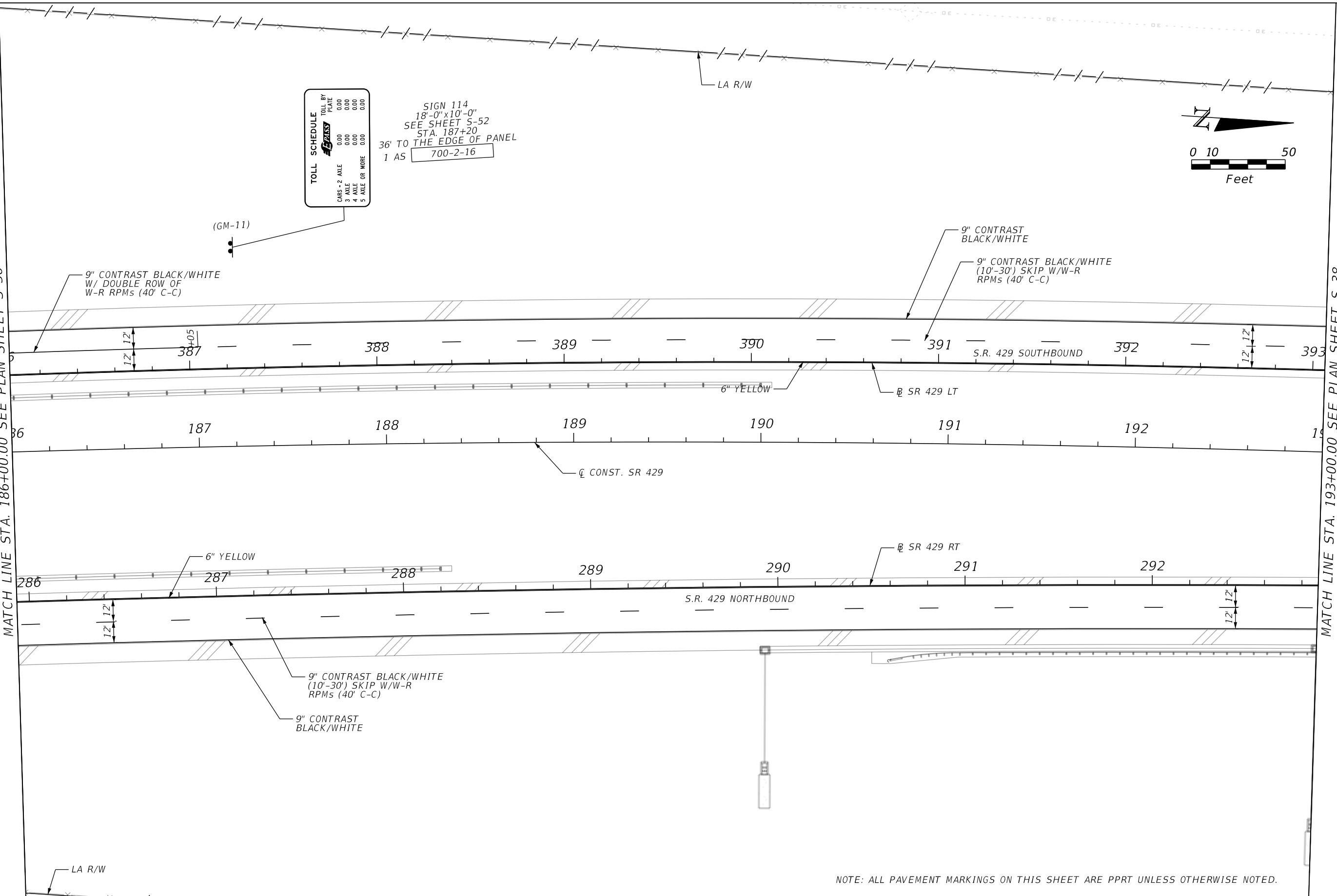
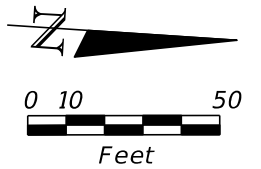
SHEET NO.
S-36

MATCH LINE STA. 186+00.00 SEE PLAN SHEET S-36

MATCH LINE STA. 193+00.00 SEE PLAN SHEET S-38

TOLL SCHEDULE	TOLL BY PLATE
CARS - 2 AXLE	0.00
3 AXLE	0.00
4 AXLE	0.00
5 AXLE OR MORE	0.00

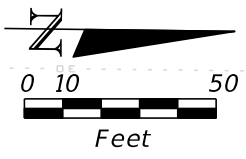
SIGN 114
 18'-0"x10'-0"
 SEE SHEET S-52
 STA. 187+20
 36' TO THE EDGE OF PANEL
 1 AS 700-2-16



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

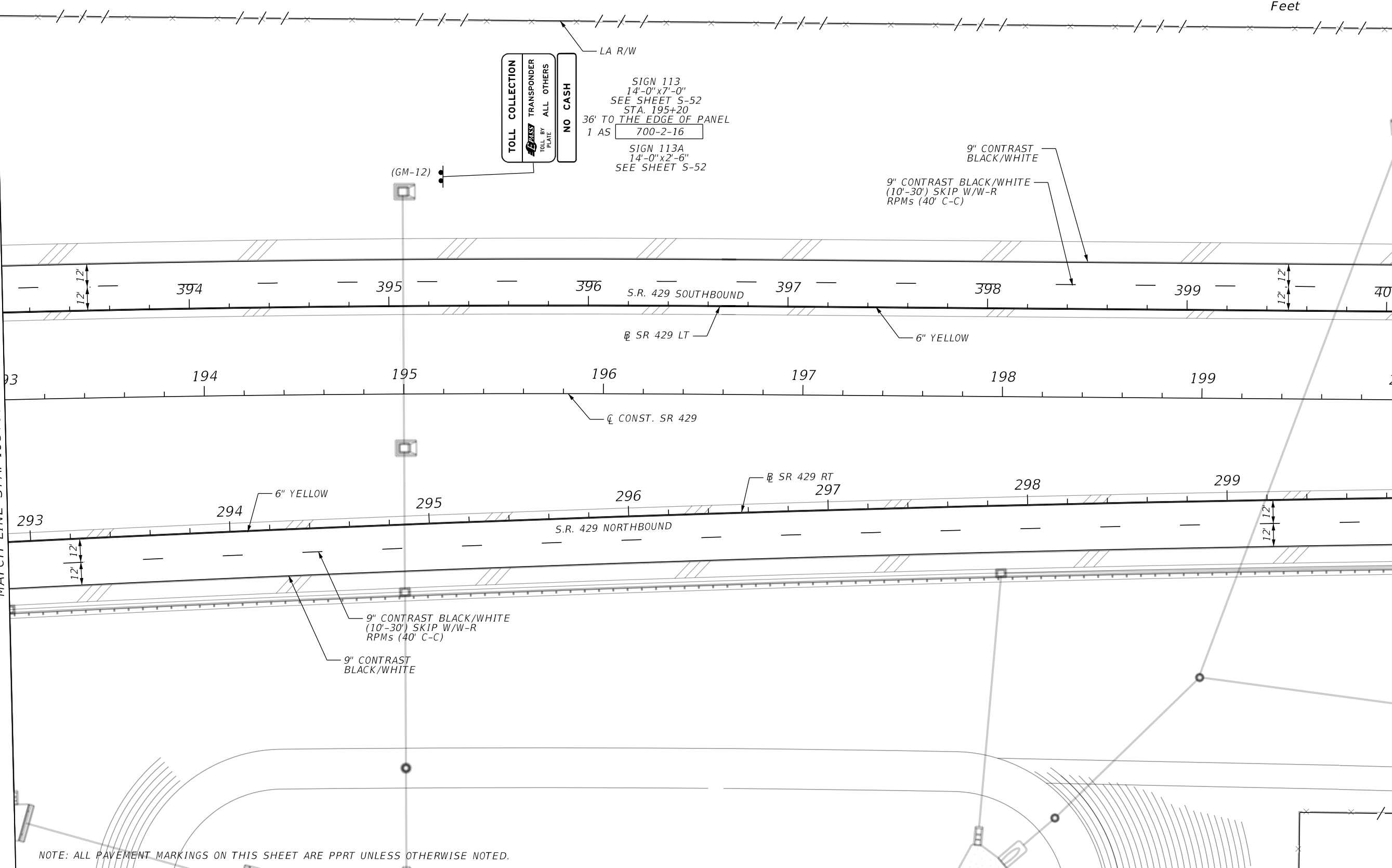
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

<p>HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500</p>	<p>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>		<p>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>	<p>SIGNING AND PAVEMENT MARKING PLANS S.R. 429</p>	<p>SHEET NO. S-37</p>
	<p>ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL REGISTRATION NO. 58703</p>	<p>ROAD NO. SR 429</p>			



MATCH LINE STA. 193+00.00 SEE PLAN SHEET S-37

MATCH LINE STA. 200+00.00 SEE PLAN SHEET S-39



NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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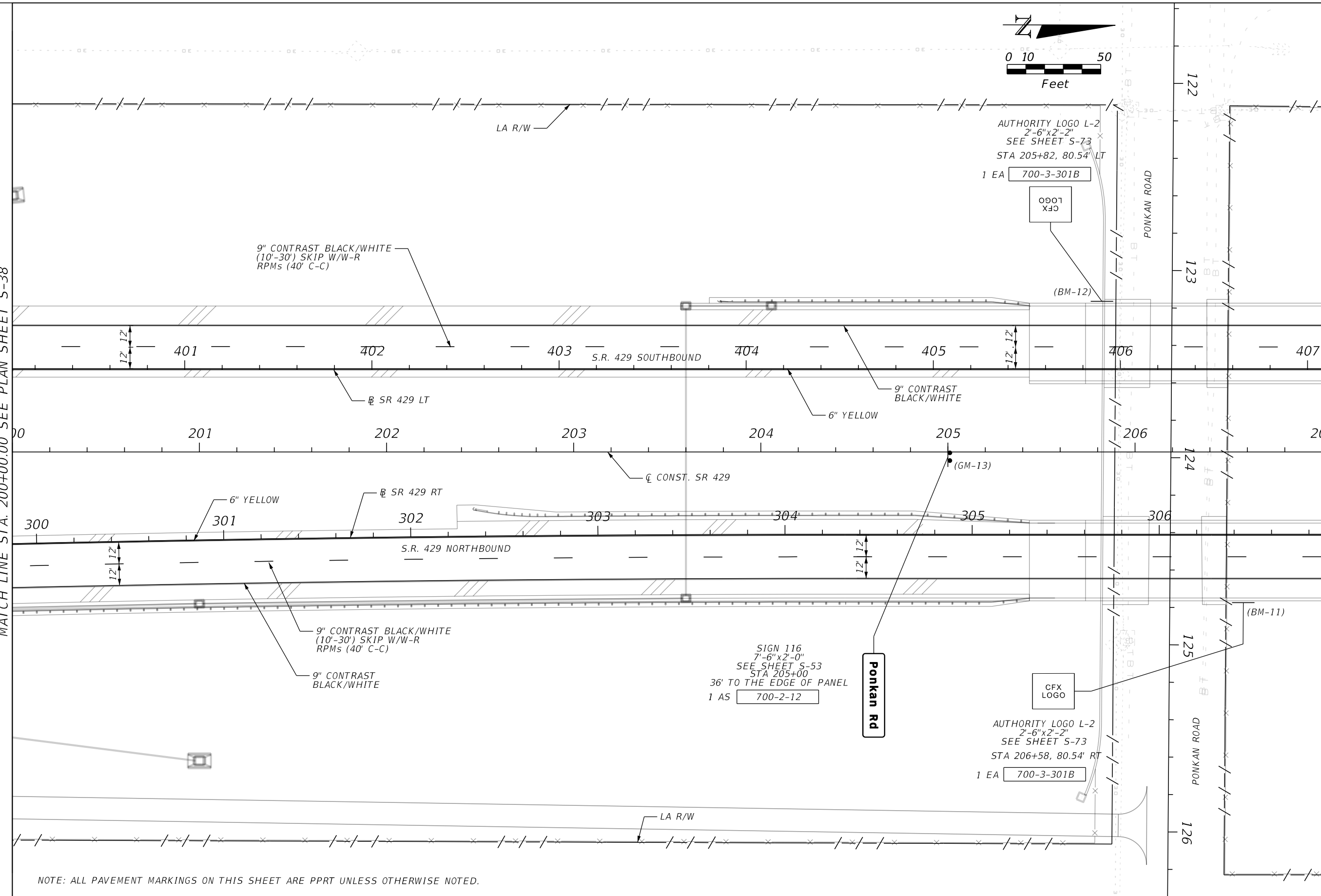
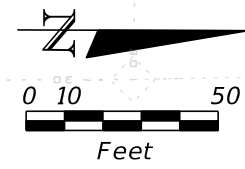
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-38

MATCH LINE STA. 200+00.00 SEE PLAN SHEET S-38

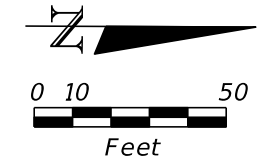
MATCH LINE STA. 207+00.00 SEE PLAN SHEET S-40



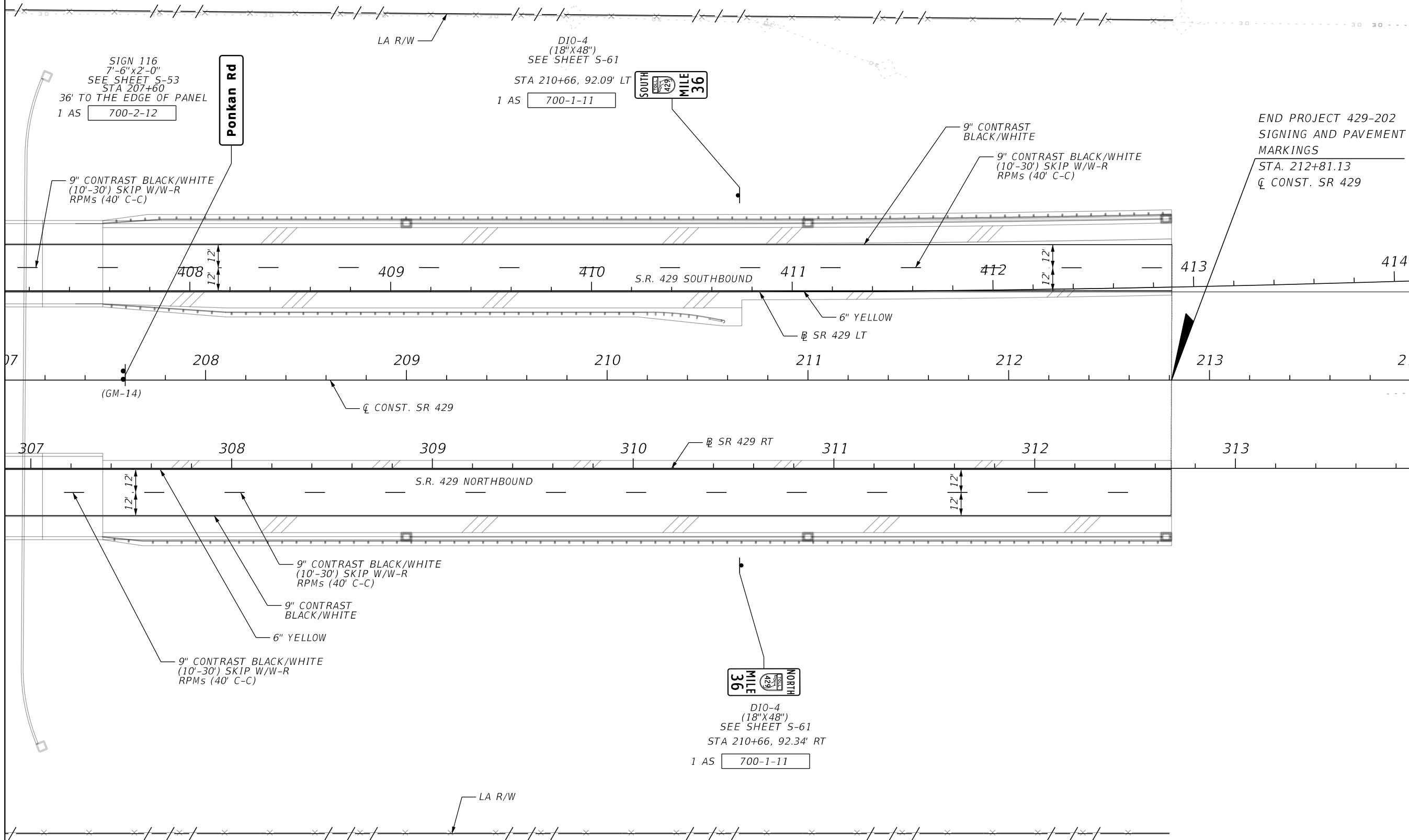
NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

<p>HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500</p>	<p>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>		<p>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>	<p>SIGNING AND PAVEMENT MARKING PLANS S.R. 429</p>	<p>SHEET NO. S-39</p>
	<p>ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL REGISTRATION NO. 58703</p>	<p>ROAD NO. SR 429</p>			



MATCH LINE STA. 207+00.00 SEE PLAN SHEET S-39



END PROJECT 429-202
 SIGNING AND PAVEMENT
 MARKINGS
 STA. 212+81.13
 CL CONST. SR 429

NOTE: ALL PAVEMENT MARKINGS ON THIS SHEET ARE PPRT UNLESS OTHERWISE NOTED.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO. SR 429	PROJECT NO. 429-202
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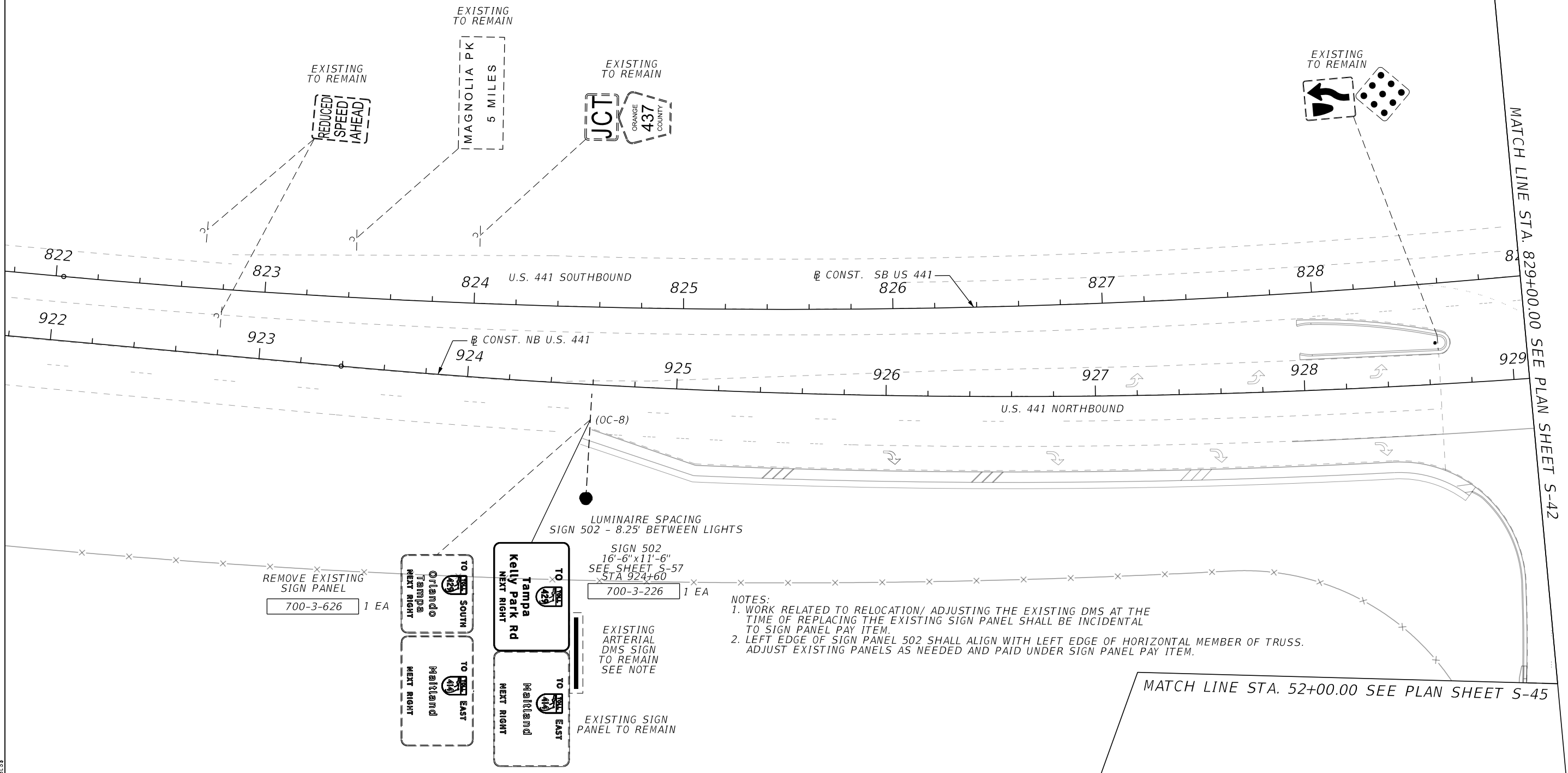
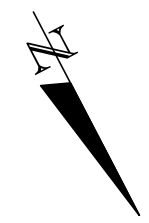
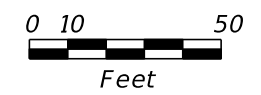
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
S.R. 429

SHEET NO.
S-40

300BT-PLAN1
 \$SHEET\$SIZES
 \$SCALE\$SHORTS
 MODEL:
 SHEET SIZE:
 PLOT SCALE:

NO PAVEMENT MARKING WORK
 ON THIS SHEET



REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB

HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

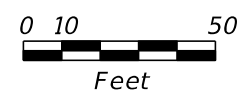
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
U.S. 441

SHEET NO.
 S-41

PRINT DRIVER:
 PEN TABLE:
 \$PLTDRVSS\$
 \$PENTABLESS\$

311 0BT-PLAN2
 MODEL: \$SHEET SIZE: \$SHEET SIZE \$
 SHEET SIZE: \$SHEET SIZE \$
 PLOT SCALE: \$SCALE SHORTS

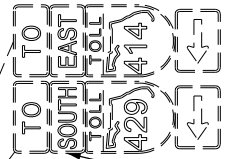


NO PAVEMENT MARKING WORK
 ON THIS SHEET

MATCH LINE STA. 829+00.00 SEE PLAN SHEET S-41

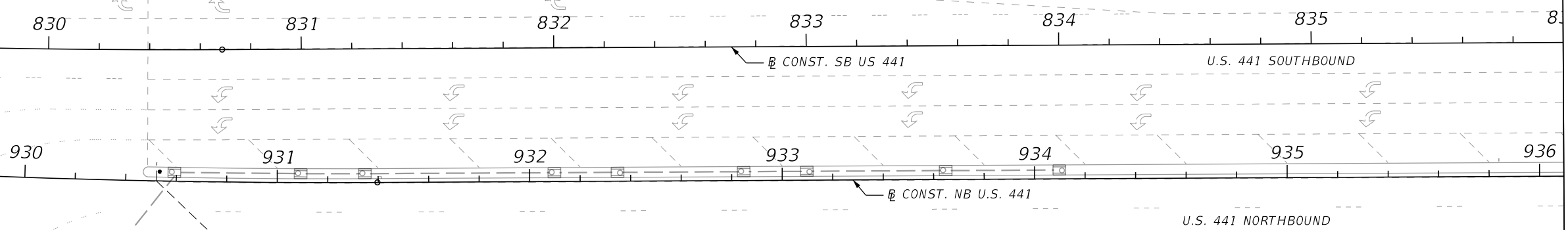
MATCH LINE STA. 836+00.00 SEE PLAN SHEET S-43

EXISTING
 TO REMAIN



700-3-601 1 EA

REMOVE "SOUTH"
 PANEL FROM
 EXISTING
 ASSEMBLY



CONNECTOR ROAD

51



EXISTING
 TO REMAIN



EXISTING
 TO REMAIN

MATCH LINE STA. 52+00.00 SEE PLAN SHEET S-45

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

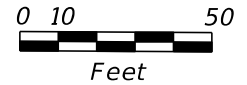
ROAD NO. SR 429	PROJECT NO. 429-202
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CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**SIGNING AND PAVEMENT
 MARKING PLANS
 U.S. 441**

SHEET
 NO.
 S-42

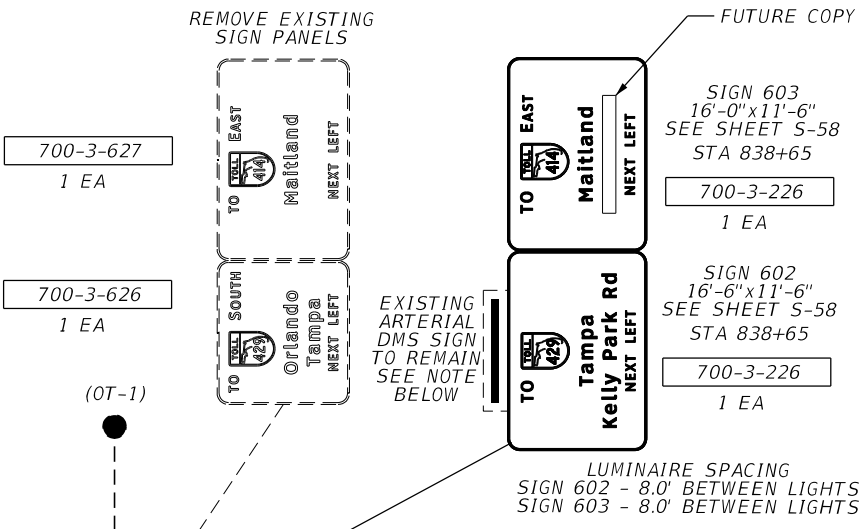
PRINT DRIVER: \$PLOTDRVS\$
 PEN TABLE: \$PEN TABLE\$



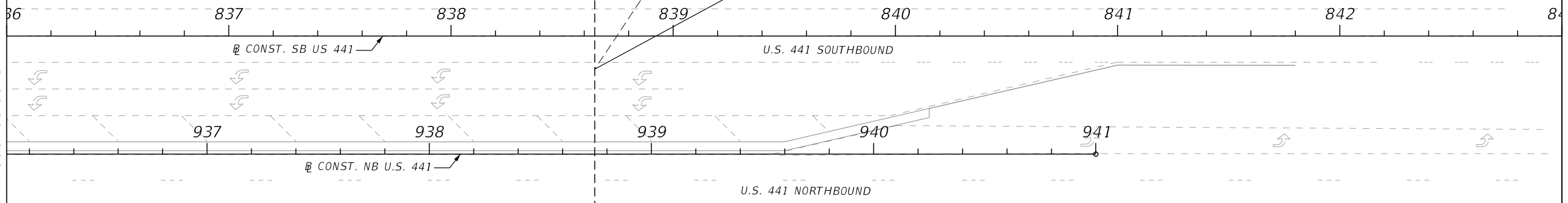
**NO PAVEMENT MARKING WORK
 ON THIS SHEET**

MATCH LINE STA. 836+00.00 SEE PLAN SHEET S-42

MATCH LINE STA. 843+00.00 SEE PLAN SHEET S-44



- NOTES:
1. WORK RELATED TO RELOCATION/ ADJUSTING THE EXISTING DMS AT THE TIME OF REPLACING THE EXISTING SIGN PANEL SHALL BE INCIDENTAL TO SIGN PANEL PAY ITEM.
 2. RIGHT EDGE OF SIGN 603 SHALL ALIGN WITH RIGHT EDGE OF OUTSIDE LEFT TURN LANE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB

HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

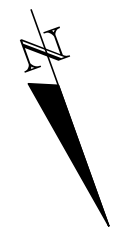
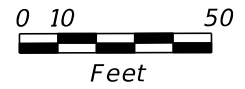
**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**SIGNING AND PAVEMENT
 MARKING PLANS
 U.S. 441**

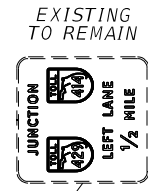
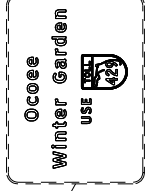
SHEET
 NO.
 S-43



NO PAVEMENT MARKING WORK
 ON THIS SHEET

SIGN 601
 16'-6" x 12'-6"
 STA. 845+20, OFF. 36.5' LT
 SEE SHEET S-58
 1 AS 700-2-17

REMOVE
 STA. 845+40
 700-2-60 1 AS



MATCH LINE STA. 843+00.00 SEE PLAN SHEET S-43



U.S. 441 SOUTHBOUND

CONST. SB US 441

U.S. 441 NORTHBOUND

(GM-2)

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

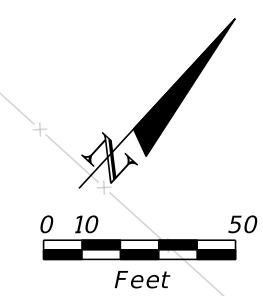
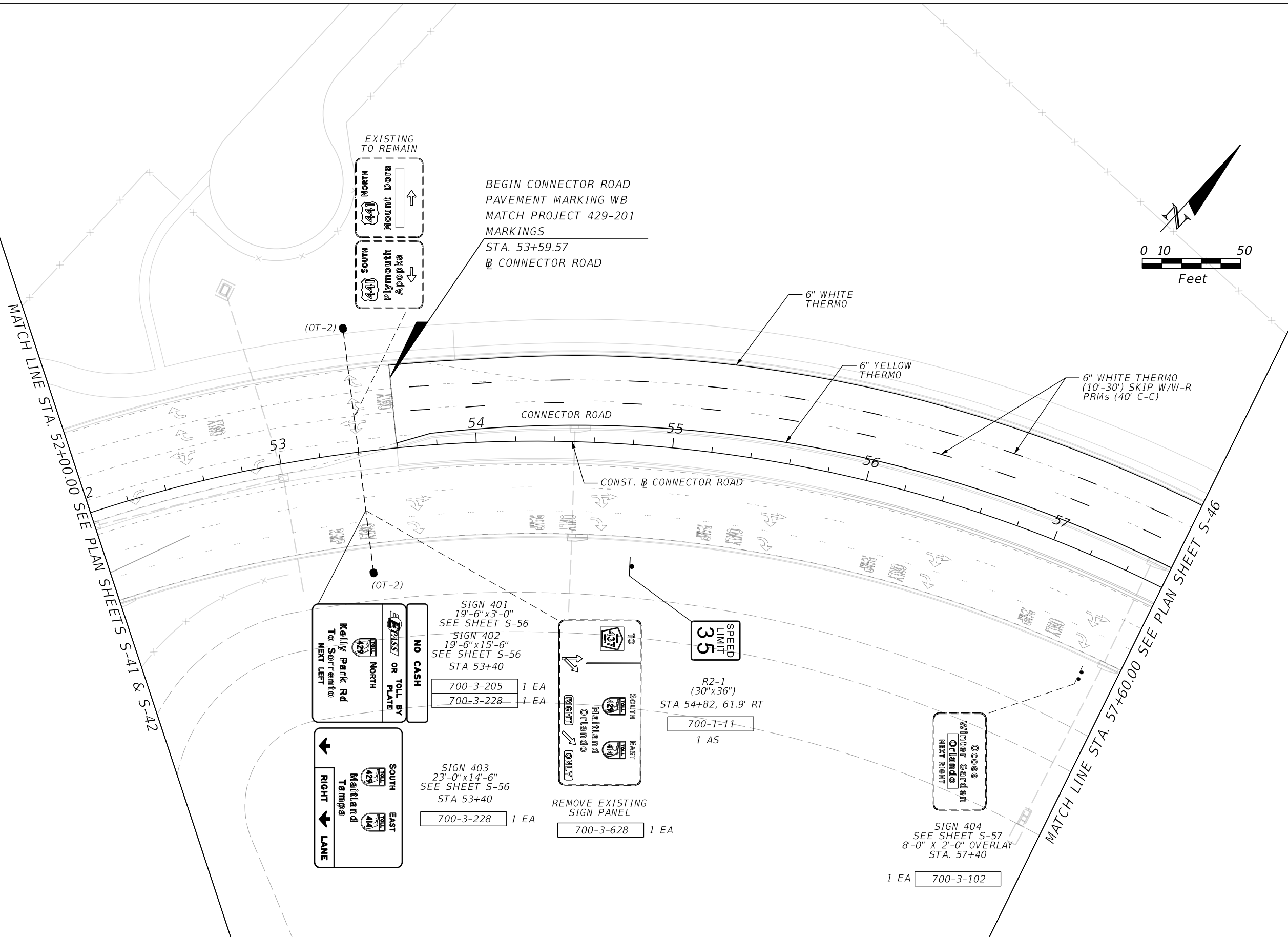
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING PLANS
U.S. 441

SHEET NO.
 S-44



MATCH LINE STA. 52+00.00 SEE PLAN SHEETS S-41 & S-42

MATCH LINE STA. 57+60.00 SEE PLAN SHEET S-46

BEGIN CONNECTOR ROAD
 PAVEMENT MARKING WB
 MATCH PROJECT 429-201
 MARKINGS
 STA. 53+59.57
 B CONNECTOR ROAD

NO CASH
 OR TOLL BY
 PLATE
 Kelly Park Rd
 To Sorrento
 NEXT LEFT

SIGN 401
 19'-6" x 3'-0"
 SEE SHEET S-56

SIGN 402
 19'-6" x 15'-6"
 SEE SHEET S-56
 STA 53+40

700-3-205 1 EA
 700-3-228 1 EA

SIGN 403
 23'-0" x 14'-6"
 SEE SHEET S-56
 STA 53+40

700-3-228 1 EA

SPEED LIMIT 35

R2-1
 (30" x 36")
 STA 54+82, 61.9' RT

700-1-11 1 AS

REMOVE EXISTING SIGN PANEL
 700-3-628 1 EA

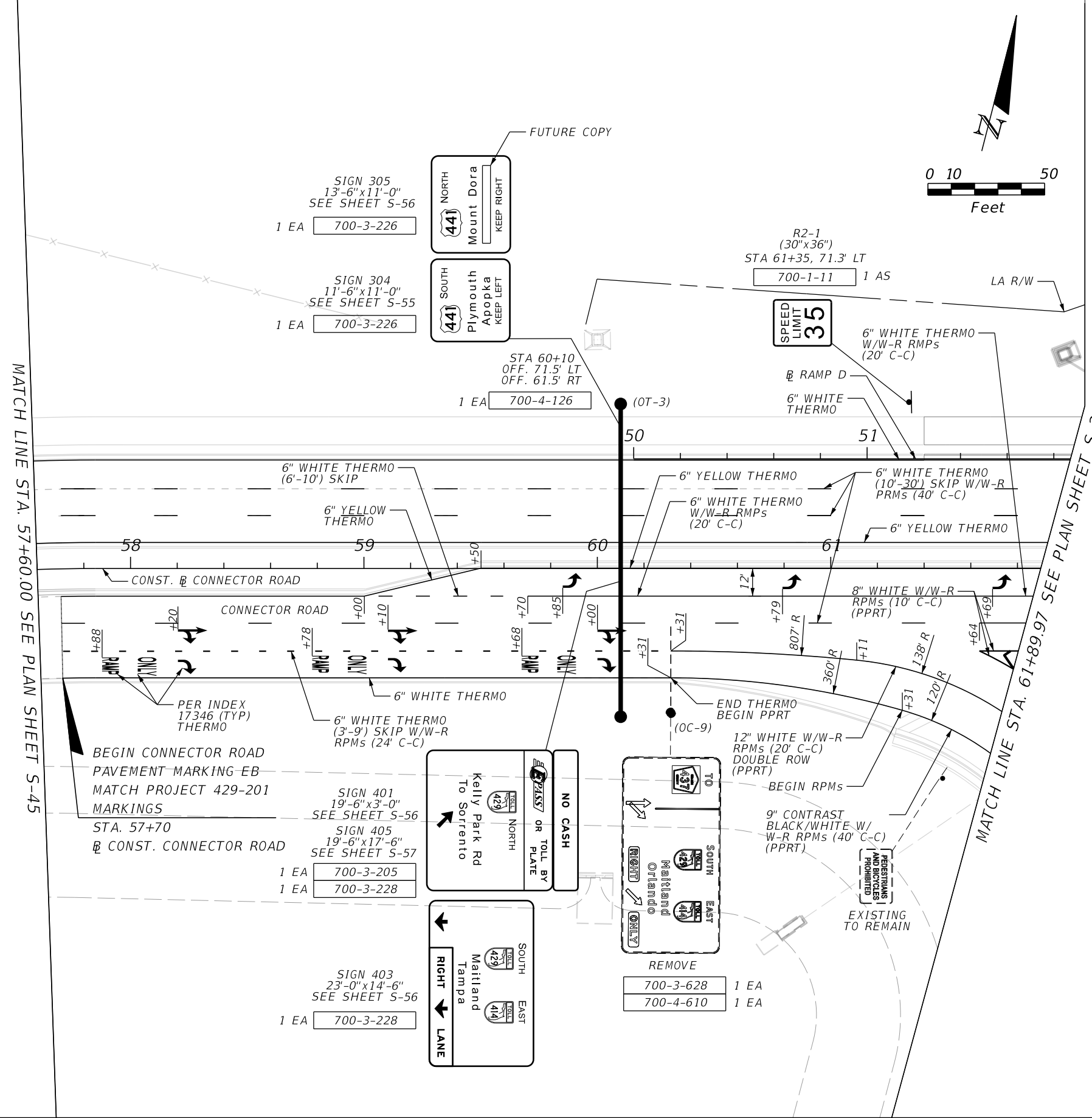
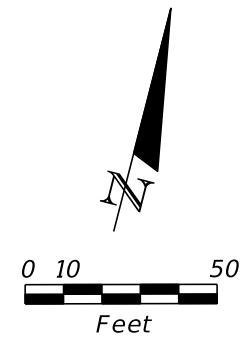
Winter Garden Orlando NEXT RIGHT

SIGN 404
 SEE SHEET S-57
 8'-0" X 2'-0" OVERLAY
 STA. 57+40

1 EA 700-3-102

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

<p>HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500</p> <p>ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL REGISTRATION NO. 58703</p>	<p>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>		<p>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>	<p>SIGNING AND PAVEMENT MARKING PLANS CONNECTOR ROAD</p>	<p>SHEET NO. S-45</p>
	<p>ROAD NO. SR 429</p>	<p>PROJECT NO. 429-202</p>			



SIGN 305
 13'-6"x11'-0"
 SEE SHEET S-56
 1 EA 700-3-226

SIGN 304
 11'-6"x11'-0"
 SEE SHEET S-55
 1 EA 700-3-226

NORTH
 441
 Mount Dora
 KEEP RIGHT

SOUTH
 441
 Plymouth
 Apopka
 KEEP LEFT

STA 60+10
 OFF. 71.5' LT
 OFF. 61.5' RT
 1 EA 700-4-126

R2-1
 (30"x36")
 STA 61+35, 71.3' LT
 700-1-11 1 AS

SPEED
 LIMIT
 35

BEGIN CONNECTOR ROAD
 PAVEMENT MARKING-EB
 MATCH PROJECT 429-201
 MARKINGS
 STA. 57+70
 @ CONST. CONNECTOR ROAD

SIGN 401
 19'-6"x3'-0"
 SEE SHEET S-56
 1 EA 700-3-205

SIGN 405
 19'-6"x17'-6"
 SEE SHEET S-57
 1 EA 700-3-228

SIGN 403
 23'-0"x14'-6"
 SEE SHEET S-56
 1 EA 700-3-228

NO CASH
 OR TOLL BY
 PLATE
 Kelly Park Rd
 To Sorrento

SOUTH
 429
 Maitland
 Tampa
 EAST
 414
 RIGHT
 LANE

REMOVE
 700-3-628 1 EA
 700-4-610 1 EA

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

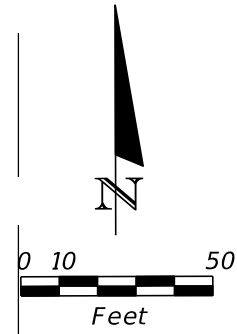
CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

**SIGNING AND PAVEMENT MARKING PLANS
 CONNECTOR ROAD**

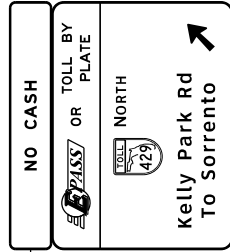
SHEET NO. S-46

MATCH LINE STA. 66+62.04 SEE PLAN SHEET S-24



SIGN 303
 20'-6" x 15'-0"
 SEE SHEET S-55
 STA 67+20, 55.7' LT

700-3-205	1 EA
700-3-228	1 EA
700-4-113	1 EA



SIGN 302
 20'-6" x 3'-0"
 SEE SHEET S-55

9" CONTRAST
 BLACK/WHITE
 W/W-R RPMs
 (40' C-C)

RELOCATE TO
 STA. 71.00, 50.59' LT
 1 AS 700-1-50



W11-2
 (36" x 36")
 W16-9P
 (24" x 12")
 STA. 69+00, 50.59' LT
 1 AS 700-1-11



SIGN 301
 15'-6" x 13'-6"
 SEE SHEET S-55
 STA 69+90, 53.80' LT

700-3-227	1 EA
700-4-111	1 EA



REMOVE
 700-1-60 1 AS



RELOCATED FROM
 STA 68+00



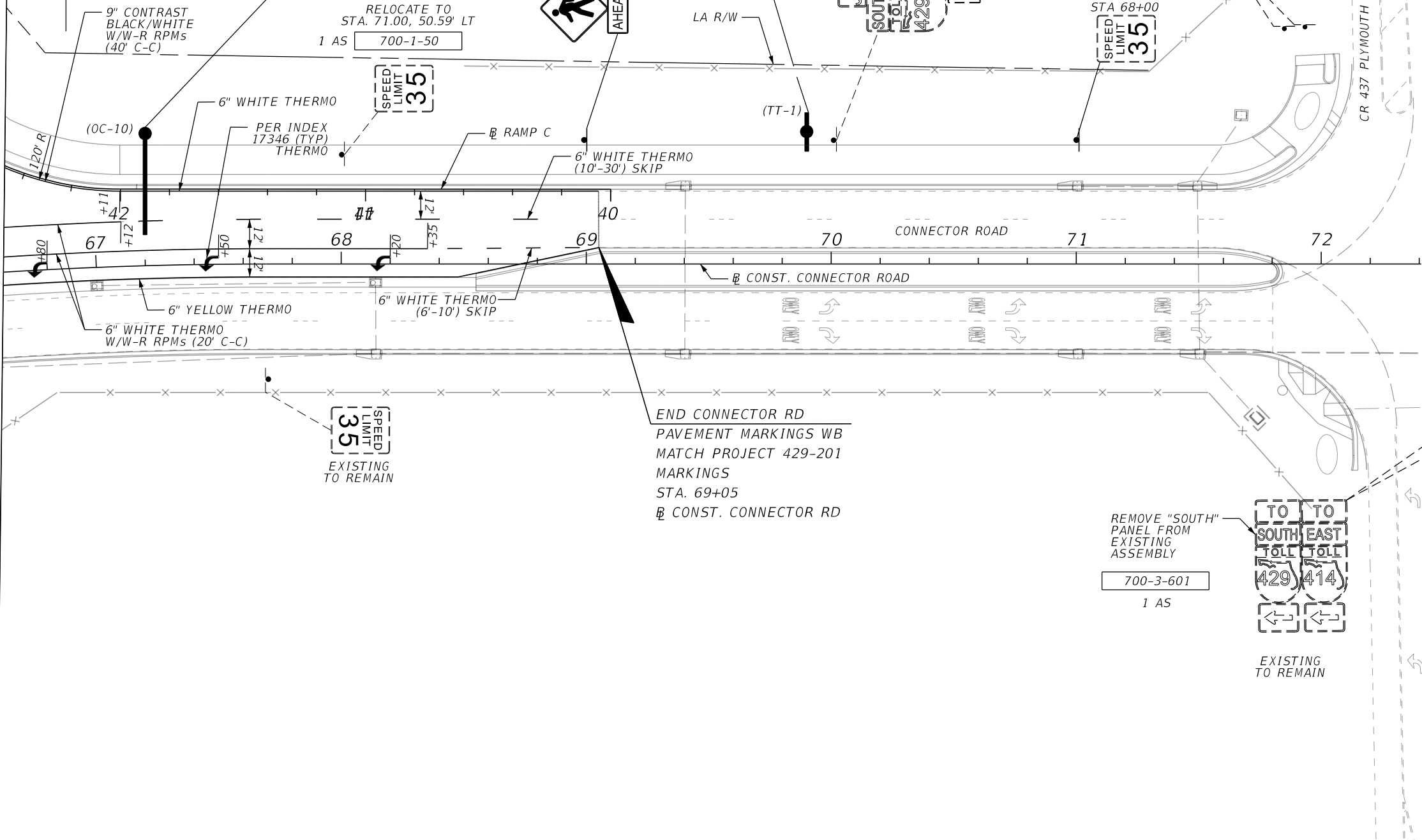
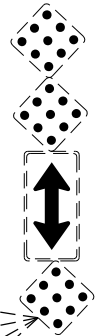
EXISTING TO REMAIN



REMOVE "SOUTH"
 PANEL FROM
 EXISTING
 ASSEMBLY

700-3-601
 1 AS

EXISTING TO REMAIN



END CONNECTOR RD
 PAVEMENT MARKINGS WB
 MATCH PROJECT 429-201
 MARKINGS
 STA. 69+05
 CONST. CONNECTOR RD

REMOVE "SOUTH"
 PANEL FROM
 EXISTING
 ASSEMBLY

700-3-601
 1 AS



EXISTING TO REMAIN

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

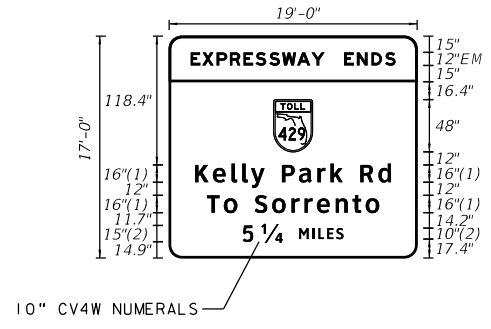
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

**SIGNING AND PAVEMENT MARKING PLANS
 CONNECTOR ROAD**

SHEET NO.
 S-47

SIGN	101	STATION(S)
QUANTITY	1	1 634+00 (GM-1)
WIDTH	19'-0"	2
HEIGHT	17'-0"	3
BORDER WIDTH	2"	4
BORDER RADII	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	YELLOW/GREEN	
LEGEND/BORDER COLOR	BLACK/BLACK & WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
 (1) CLEARVIEWHWY-5-W
 (2) CLEARVIEWHWY-4-W



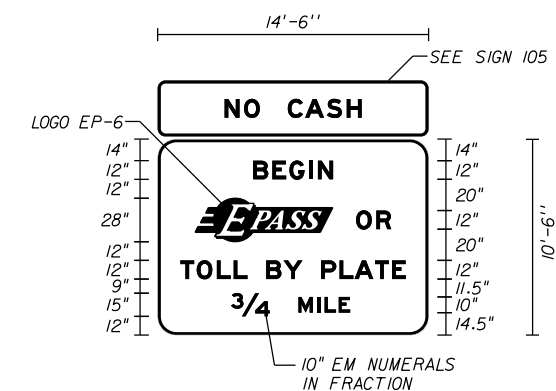
1. HORIZONTAL SPACING BETWEEN BLACK LETTERS ON YELLOW BACKGROUND HAS BEEN INCREASED BY 10%

COPY SPACING LENGTH SIZE/SERIES

19.8	E	X	P	R	E	S	S	W	A	Y	18.0	E	N	D	S	19.7	188.5	12 EM	
96.0	36.0	96.0																36.0	
23.9	K	e	l	i	y	P	a	r	k	R	d	23.9						180.2	16 CV5W
34.8	T	o	S	o	r	r	e	n	t	o	34.7							158.5	16 CV5W
68.9	5	1/4	M	I	L	E	S	68.9										90.2	15/10 CV4W

SIGN	104	STATION(S)
QUANTITY	1	1 661+00 (OC-2)
WIDTH	14'-6"	2
HEIGHT	10'-6"	3
BORDER WIDTH	2"	4
BORDER RADII	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	WHITE	
LEGEND/BORDER COLOR	BLACK/BLACK	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

1. SPACING BETWEEN BLACK LETTERS HAS BEEN INCREASED BY 10%.



COPY SPACING LENGTH SIZE/SERIES

60.8	B	E	G	I	N	60.7												52.5	12 EM	
23.8	O	R	23.7																126.5	12 EM
13.8	T	O	L	L	B	Y	P	L	A	T	E	13.8							146.4	12 EM
50	3/4	M	I	L	E	50													74	10 EM

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

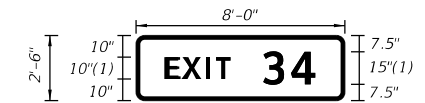
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GUIDE SIGN WORKSHEET
 SIGNS 101, 103, 104, 105

SHEET NO. S-48

SIGN	103	STATION(S)
QUANTITY	7	1 89+00 (OC-4) 6 650+70 (OC-1)
WIDTH	8'-0"	2 115+20 (OC-5) 7 681+40 (OC-3)
HEIGHT	2'-6"	3 142+00 (OC-6)
BORDER WIDTH	2"	4 155+00 (GM-7)
BORDER RADII	4"	5 168+00 (OC-7)
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
 (1) CLEARVIEWHWY-4-W

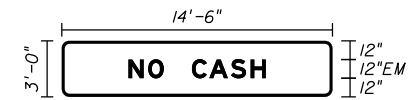


COPY SPACING LENGTH SIZE/SERIES

13.6	E	X	I	T	3	4	13.6												68.7	10/15 CV4W
------	---	---	---	---	---	---	------	--	--	--	--	--	--	--	--	--	--	--	------	------------

SIGN	105	STATION(S)
QUANTITY	1	1 661+00 (OC-2)
WIDTH	14'-6"	2
HEIGHT	3'-0"	3
BORDER WIDTH	2"	4
BORDER RADII	5"	5
BORDER INSET	0"	
BACKGROUND COLOR	YELLOW	
LEGEND/BORDER COLOR	BLACK/BLACK	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

1. SPACING BETWEEN BLACK LETTERS HAS BEEN INCREASED BY 10%.



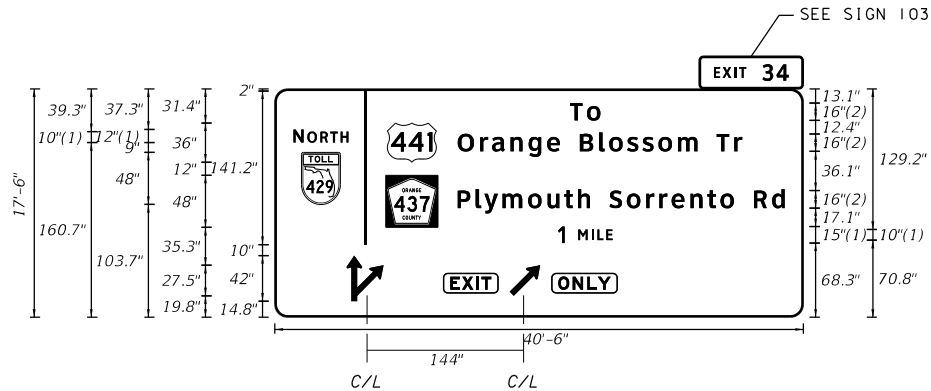
COPY SPACING LENGTH SIZE/SERIES

42.4	N	O	C	A	S	H	42.4												89.2	12 EM
------	---	---	---	---	---	---	------	--	--	--	--	--	--	--	--	--	--	--	------	-------

SIGN	102	STATION(S)	
QUANTITY	1	1	650+70 (OC-1)
WIDTH	40'-6"	2	
HEIGHT	17'-6"	3	
BORDER WIDTH	2"	4	
BORDER RADIUS	12"	5	
BORDER INSET	0"		
BACKGROUND COLOR	GREEN		
LEGEND/BORDER COLOR	WHITE/WHITE		
SHEETING	DG3		
ARROW SIZE (ANGLE)			

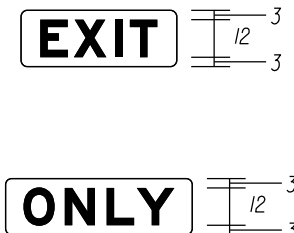
FONT:
 (1) CLEARVIEWHWY-4-W
 (2) CLEARVIEWHWY-5-W

1. VERTICAL AND HORIZONTAL DIMENSIONS SHOWN FOR FTP-18-06 ARE THE SIZE OF THE YELLOW RECTANGULAR BACKGROUND. THE FTP-18-06 SHIELD SHALL BE 44"x42"
 2. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)



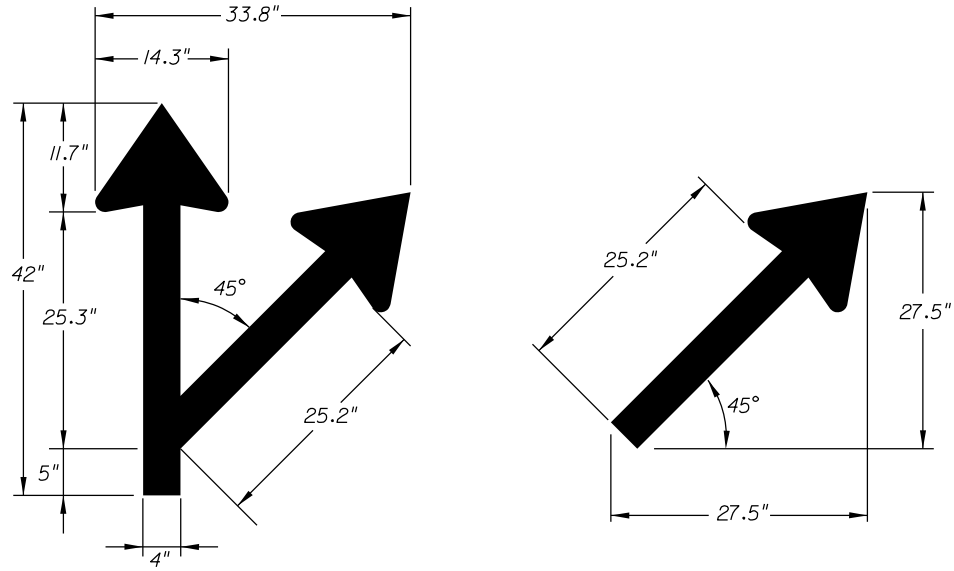
		COPY SPACING														LENGTH	SIZE/SERIES		
86.7	2.0	183.7	27.9	185.7														213.6	16 CV5W
19.1		50.5	17.1	2.0	18.5	45.0	17.5	95.2	16.0	109.3	16.0	25.0	54.8					412.1	12/10 CV4W 16 CV5W
26.4	36.0	24.3	2.0	17.0	48.0	16.0	121.8	16.0	114.5	16.0	28.9	19.1						440.5	16 CV5W
86.7	2.0	172.5	6.3	12.5	31.6	174.4												224.9	15/10 CV4W
70.8	33.8	51.3	50.0	12.0	27.5	12.0	60.0	168.6										246.6	12 EM

SIGN		
QUANTITY		
WIDTH	50"	60"
HEIGHT	18"	18"
BORDER WIDTH	N/A	N/A
BORDER RADIUS	N/A	N/A
BORDER INSET	2"	2"
BACKGROUND COLOR	YELLOW	YELLOW
LEGEND/BORDER COLOR	BLACK	BLACK
SHEETING	DG3	DG3
ARROW SIZE (ANGLE)		



1. SPACING BETWEEN BLACK LETTERS HAS BEEN INCREASED BY 10%.

		COPY SPACING														LENGTH	SIZE/SERIES		
6.2		37.6	6.2															37.6	12 EM
5.8		48.5	5.7															48.5	12 EM



ARROW DETAIL

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

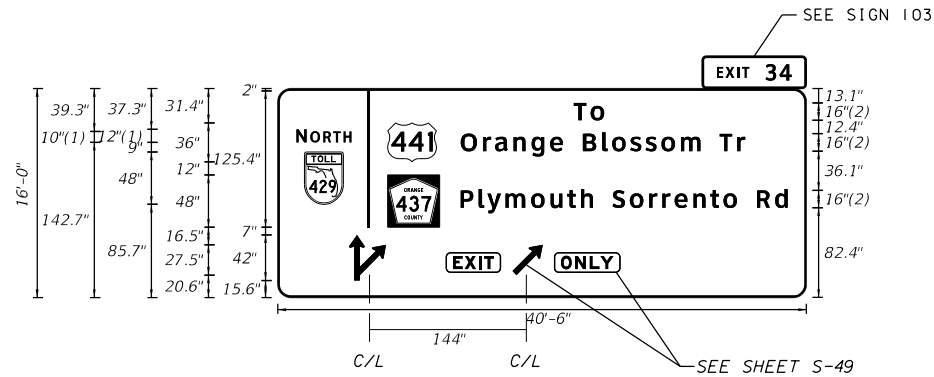
*GUIDE SIGN WORKSHEET
 SIGN 102*

SHEET NO.
 S-49

SIGN	106	STATION(S)
QUANTITY	2	1 681+40 (OC-3)
WIDTH	40'-6"	2 89+00 (OC-4)
HEIGHT	16'-0"	3
BORDER WIDTH	2"	4
BORDER RADII	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
 (1) CLEARVIEWHWY-4-W
 (2) CLEARVIEWHWY-5-W

1. VERTICAL AND HORIZONTAL DIMENSIONS SHOWN FOR FTP-18-06 ARE THE SIZE OF THE YELLOW RECTANGULAR BACKGROUND. THE FTP-18-06 SHIELD SHALL BE 44"x42"
 2. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)



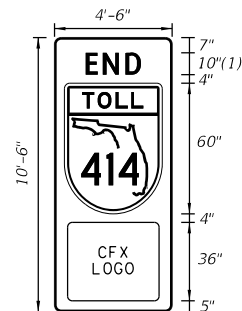
COPY SPACING

LENGTH SIZE/SERIES

86.7	2.0	183.7	27.9	185.7													213.6	16 CV5W
19.1		50.5	17.1	2.0	18.5	45.0	17.5	95.2	16.0	109.3	16.0	25.0	54.8				412.1	12/10 CV4W 16 CV5W
26.4	36.0	24.3	2.0	17.0	48.0	16.0	121.8	16.0	114.5	16.0	28.9	19.1					440.5	16 CV5W
70.8	33.8	51.3		50.0	12.0	27.5	12.0	60.0	168.6								246.6	12 EM

SIGN	107	STATION(S)
QUANTITY	1	1 96+50
WIDTH	4'-6"	2
HEIGHT	10'-6"	3
BORDER WIDTH	1"	4
BORDER RADII	3"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

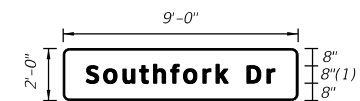
FONT:
 (1) CLEARVIEWHWY-3-W



1. TOLL ROUTE SHIELD IS TM (SEE SHEET S-59)
 2. AUTHORITY LOGO L-6 (SEE SHEET S-59)

SIGN	108	STATION(S)
QUANTITY	2	1 104+70 (GM-4)
WIDTH	9'-0"	2 106+30 (GM-5)
HEIGHT	2'-0"	3
BORDER WIDTH	1"	4
BORDER RADII	3"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
 (1) CLEARVIEWHWY-5-W



COPY SPACING

LENGTH SIZE/SERIES

14.3		25.4	14.3														25.4	10 CV3W
3.0	48.0	3.0															48.0	
6.0	42.0	6.0															42.0	

COPY SPACING

LENGTH SIZE/SERIES

10.6		64.7	8.0	14.1	10.6												86.8	8 CV5W
------	--	------	-----	------	------	--	--	--	--	--	--	--	--	--	--	--	------	--------

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

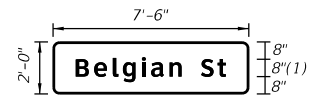
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GUIDE SIGN WORKSHEET
 SIGNS 106, 107, 108

SHEET NO.
 S-50

SIGN	109	STATION(S)
QUANTITY	2	1 134+67 (BM-7)
WIDTH	7'-6"	2 135+33 (BM-8)
HEIGHT	2'-0"	3
BORDER WIDTH	1"	4
BORDER RADIUS	3"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
 (1) CLEARVIEWHWY-5-W

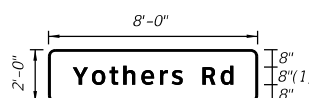


COPY SPACING LENGTH SIZE/SERIES

	B	e	l	g	i	a	n		S	t							69.1	8	CV5W	
10.5				47.0					8.0		14.1	10.4								

SIGN	111	STATION(S)
QUANTITY	2	1 151+80 (BM-9)
WIDTH	8'-0"	2 152+66 (BM-10)
HEIGHT	2'-0"	3
BORDER WIDTH	1"	4
BORDER RADIUS	3"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
 (1) CLEARVIEWHWY-5-W



COPY SPACING LENGTH SIZE/SERIES

	Y	o	t	h	e	r	s		R	d								73.8	8	CV5W
11.1					51.7				8.0		14.1	11.1								

SIGN		STATION(S)
QUANTITY		1
WIDTH		2
HEIGHT		3
BORDER WIDTH		4
BORDER RADIUS		5
BORDER INSET		
BACKGROUND COLOR		
LEGEND/BORDER COLOR		
SHEETING		
ARROW SIZE (ANGLE)		

BLANK

COPY SPACING LENGTH SIZE/SERIES

SIGN		STATION(S)
QUANTITY		1
WIDTH		2
HEIGHT		3
BORDER WIDTH		4
BORDER RADIUS		5
BORDER INSET		
BACKGROUND COLOR		
LEGEND/BORDER COLOR		
SHEETING		
ARROW SIZE (ANGLE)		

BLANK

COPY SPACING LENGTH SIZE/SERIES

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
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 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

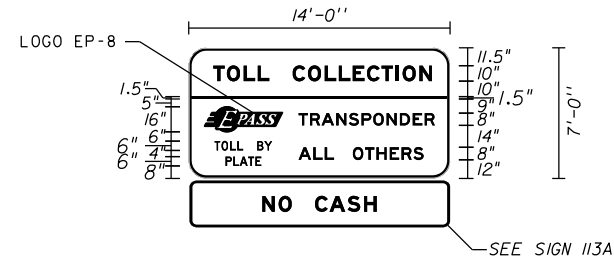
**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**
 ROAD NO. PROJECT NO.
 SR 429 429-202

CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

GUIDE SIGN WORKSHEET
 SIGNS 109, 110, 111, 112

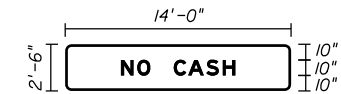
SHEET
 NO.
 S-51

SIGN	113	STATION(S)	
QUANTITY	2	1	170+00 (GM-9)
WIDTH	14'-0"	2	195+20 (GM-12)
HEIGHT	7'-0"	3	
BORDER WIDTH	1.5"	4	
BORDER RADIUS	10.5"	5	
BORDER INSET	0.5"		
BACKGROUND COLOR	WHITE		
LEGEND/BORDER COLOR	BLACK		
SHEETING	DG3		
ARROW SIZE (ANGLE)			



1. SPACING BETWEEN LETTERS IN SERIES EM HAS BEEN INCREASED BY 10%.

SIGN	113A	STATION(S)	
QUANTITY	2	1	170+00 (GM-9)
WIDTH	14'-0"	2	195+20 (GM-12)
HEIGHT	2'-6"	3	
BORDER WIDTH	1.5"	4	
BORDER RADIUS	4"	5	
BORDER INSET	0.5"		
BACKGROUND COLOR	YELLOW		
LEGEND/BORDER COLOR	BLACK/BLACK		
SHEETING	DG3		
ARROW SIZE (ANGLE)			



1. SPACE BETWEEN LETTERS HAS BEEN INCREASED BY 10%.

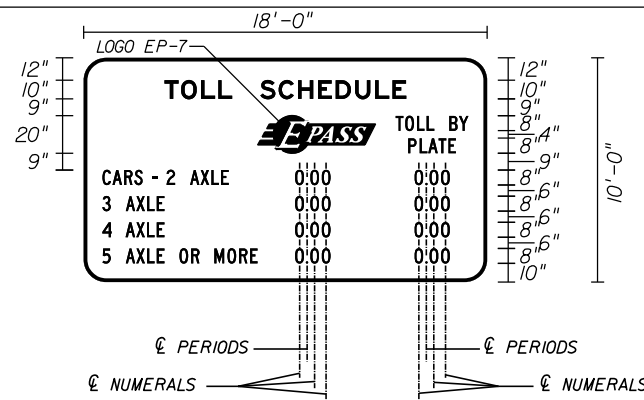
COPY SPACING LENGTH SIZE/SERIES

12.6	T	O	L	L	15	C	O	L	L	E	C	T	I	O	N	12.5	142.9	10 EM	
9.9	E-PASS	T	R	A	N	S	P	O	N	D	E	R	9.9				148.2	8 E	
16.7	T	O	L	L	9	B	Y	A	L	L	O	T	H	E	R	S	17.1	128.3	6 D / 8 E
23.8	P	L	A	T	E	121.3											22.9	6 D	

COPY SPACING LENGTH SIZE/SERIES

46.9	N	O	C	A	S	H	46.8												74.3	10 EM
------	---	---	---	---	---	---	------	--	--	--	--	--	--	--	--	--	--	--	------	-------

SIGN	114	STATION(S)	
QUANTITY	2	1	178+00 (GM-10)
WIDTH	18'-0"	2	187+20 (GM-11)
HEIGHT	10'-0"	3	
BORDER WIDTH	2"	4	
BORDER RADIUS	12"	5	
BORDER INSET			
BACKGROUND COLOR	WHITE		
LEGEND/BORDER COLOR	BLACK/BLACK		
SHEETING	DG3		
ARROW SIZE (ANGLE)			



NOTES:
 1. NUMERAL SPACING TO BE ADJUSTED SUCH THAT PERIODS AND COLUMNS OF NUMERALS LINE UP VERTICALLY.
 2. EACH COLUMN OF TOLL RATES TO BE CENTERED UNDER METHOD OF PAYMENT.
 3. BASED ON NOTES 1 AND 2, SPACE BETWEEN "AXLE" AND TOLL RATES IS SUBJECT TO CHANGE. ALSO APPLIES TO SIDE MARGINS ADJACENT TO TOLL RATES.
 4. CENTERLINES ARE FOR INFORMATIONAL PURPOSES ONLY.

COPY SPACING LENGTH SIZE/SERIES

43.2	T	O	L	L	15	S	C	H	E	D	U	L	E	43.3							129.5	10" E
93.1	E-PASS	T	O	L	L	8	B	Y	10												112.9	8" C
173.8	P	L	A	T	E	16.7															25.5	8" C
10	C	A	R	S	5	6	5	4.5	8	20.7	34.4	19	42.8	19	20						186	8" C
10	3	A	X	L	E	72	19	42.8	19	20											186	8" C
10	4	A	X	L	E	72	19	42.8	19	20											186	8" C
10	5	A	X	L	E	8	10.8	8	23.1	22.1	19	42.8	19	20							186	8" C

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

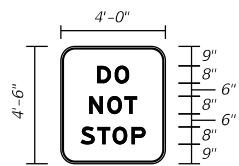
CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GUIDE SIGN WORKSHEET
 SIGNS 113, 114

SHEET NO.
 S-52

SIGN	115	STATION(S)
QUANTITY	4	1 182+94
WIDTH	4'-0"	2 184+08
HEIGHT	4'-6"	3
BORDER WIDTH	1"	4
BORDER RADII	6"	5
BORDER INSET	0.5"	
BACKGROUND COLOR	WHITE	
LEGEND/BORDER COLOR	BLACK	
SHEETING	DG3	
ARROW SIZE (ANGLE)		



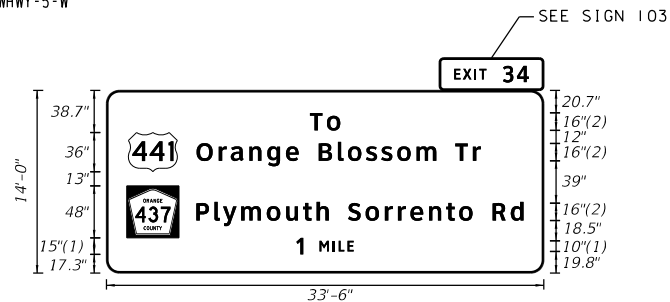
1. SPACING BETWEEN LETTERS HAS BEEN INCREASED BY 10%

COPY SPACING LENGTH SIZE/SERIES

16.5	D	0													15	8 EM
12.8	N	O	T												22.5	8 EM
8.9	S	T	O	P										30.3	8 EM	

SIGN	201	STATION(S)
QUANTITY	1	1 168+00 (OC-7)
WIDTH	33'-6"	2
HEIGHT	14'-0"	3
BORDER WIDTH	2"	4
BORDER RADII	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT: (1) CLEARVIEWHWY-4-W (2) CLEARVIEWHWY-5-W



1. VERTICAL AND HORIZONTAL DIMENSIONS SHOWN FOR FTP-18-06 ARE THE SIZE OF THE YELLOW RECTANGULAR BACKGROUND. THE FTP-18-06 SHIELD SHALL BE 44"X42"

COPY SPACING LENGTH SIZE/SERIES

187.1	T	O													27.9	16 CV5W			
21.9	44	O	R	A	N	G	E	B	L	O	S	S	O	M	T	R	324.0	16 CV5W	
20.4	437	P	L	Y	M	O	U	T	H	S	O	R	R	E	N	T	O	114.5	16.0
28.9	R	D																361.2	16 CV5W
175.8	I	M	I	L	E													50.4	15/10 CV4W

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429 PROJECT NO. 429-202

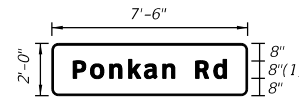
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GUIDE SIGN WORKSHEET SIGNS 115, 116, 201, 202

SHEET NO. S-53

SIGN	116	STATION(S)
QUANTITY	2	1 205+00 (GM-13)
WIDTH	7'-6"	2 207+60 (GM-14)
HEIGHT	2'-0"	3
BORDER WIDTH	1"	4
BORDER RADII	3"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT: (1) CLEARVIEWHWY-5-W

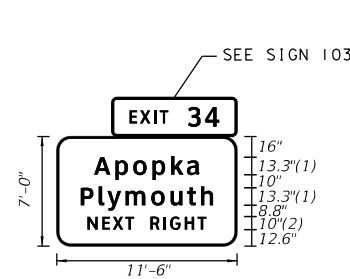


COPY SPACING LENGTH SIZE/SERIES

9.8	P	O	N	K	A	N	R	D										70.5	8 CV5W
-----	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	------	--------

SIGN	202	STATION(S)
QUANTITY	1	1 155+00 (GM-7)
WIDTH	11'-6"	2
HEIGHT	7'-0"	3
BORDER WIDTH	2"	4
BORDER RADII	10.5"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT: (1) CLEARVIEWHWY-5-W (2) CLEARVIEWHWY-4-W



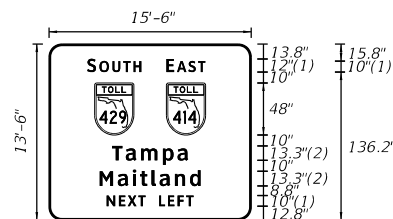
COPY SPACING LENGTH SIZE/SERIES

28.5	A	P	O	P	K	A													81.0	13.3 CV5W	
18.3	P	L	Y	M	O	U	T	H												101.4	13.3 CV5W
23.5	N	E	X	T	R	I	G	H	T											91.1	10 CV4W

MODEL: S-SHEETSIZES
SHEET SIZE: S-SHEETSIZES
PLOT SCALE:

SIGN	301	STATION(S)
QUANTITY	1	1 69+90 (TT-1)
WIDTH	15'-6"	2
HEIGHT	13'-6"	3
BORDER WIDTH	2"	4
BORDER RADI	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

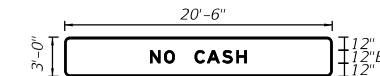
FONT:
(1) CLEARVIEWHWY-4-W
(2) CLEARVIEWHWY-5-W



1. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)

SIGN	302	STATION(S)
QUANTITY	1	1 67+20 (OC-10)
WIDTH	20'-6"	2
HEIGHT	3'-0"	3
BORDER WIDTH	2"	4
BORDER RADI	5"	5
BORDER INSET	0"	
BACKGROUND COLOR	YELLOW	
LEGEND/BORDER COLOR	BLACK/BLACK	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

1. SPACING BETWEEN BLACK LETTERS HAS BEEN INCREASED BY 10%.



COPY SPACING

LENGTH SIZE/SERIES

35.1	8.1	3.2	38.5	23.1	7.1	2.6	26.2	42.1						108.8	12/10 CV4W
42.0	36.0	30.0	36.0	42.0										102.0	
57.9		70.3												70.3	13.3 CV5W
46.7			92.7			46.6								92.7	13.3 CV5W
53.1		35.7		12.5			31.6	53.1						79.8	10 CV4W

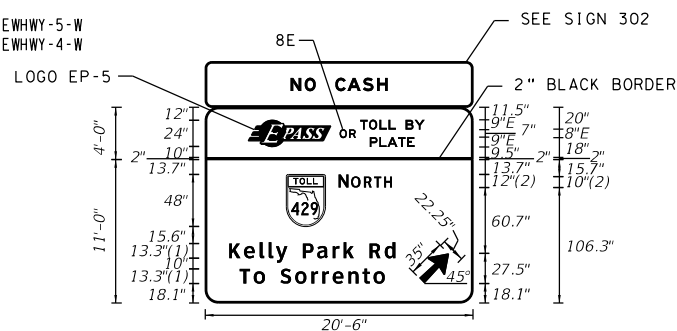
COPY SPACING

LENGTH SIZE/SERIES

78.4	23.0	18.0	48.2	78.4											89.2	12 EM
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SIGN	303	STATION(S)
QUANTITY	1	1 67+20 (OC-10)
WIDTH	20'-6"	2
HEIGHT	15'-0"	3
BORDER WIDTH	2"	4
BORDER RADI	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	WHITE/GREEN	
LEGEND/BORDER COLOR	BLACK/BLACK & WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)	22.25"x35.0", 45°	

FONT:
(1) CLEARVIEWHWY-5-W
(2) CLEARVIEWHWY-4-W



1. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)

SIGN	304	STATION(S)
QUANTITY	1	1 60+10 (OT-3)
WIDTH	11'-6"	2
HEIGHT	11'-0"	3
BORDER WIDTH	2"	4
BORDER RADI	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
(1) CLEARVIEWHWY-4-W
(2) CLEARVIEWHWY-5-W



COPY SPACING

LENGTH SIZE/SERIES

39.9	75.9	8	15.1	8	32.7	9	17.5	39.9						166.2	8 & 9 E
155.9			41.2			48.9								41.2	9 E
74.4	36.0	12.0	9.2	2.3	37.7	74.4								97.2	12/10 CV4W
22.6		53.6		13.3		46.8	13.3	23.7	22.6	27.5	22.6			200.8	13.3 CV5W
31.7		23.4		13.3			95.9							132.6	13.3 CV5W

COPY SPACING

LENGTH SIZE/SERIES

15.6	45.0	12.0	8.1	3.2	38.5	15.6									106.8	12/10 CV4W
18.3					101.4										101.4	13.3 CV5W
28.5					81.0										81.0	13.3 CV5W
29.7		34.6		12.5		31.6		29.6							78.7	10 CV4W

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKSELL, P.E.
FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GUIDE SIGN WORKSHEET
SIGNS 301, 302, 303, 304

SHEET NO.
S-55

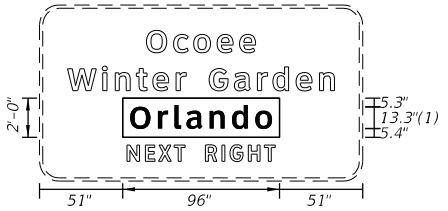
PRINT DRIVER: SPLITDRVSS
PEN TABLE: SPENBLSS

Default
SHEET SIZES
PLOT SCALE:

Table with 3 columns: SIGN, QUANTITY, STATION(S). Includes dimensions: WIDTH 16'-6", HEIGHT 9'-0", BORDER WIDTH 4, BORDER RADI 5, BACKGROUND COLOR GREEN, LEGEND/BORDER COLOR WHITE, SHEETING DG3, ARROW SIZE (ANGLE) 22.25°.

FONT:
(1) CLEARVIEWHWY-5-W

ORIGINAL PANEL IN TRADITIONAL FONT



OVERLAY SIZE: 8'-0"X2'-0"

COPY SPACING

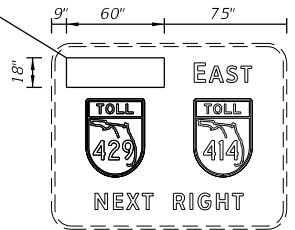
LENGTH SIZE/SERIES

Table with 13 columns for copy spacing and length. Includes an 'EXISTING SIGN' diagram for 'Ocoee Winter Garden Tampa NEXT RIGHT'.

Table with 3 columns: SIGN, QUANTITY, STATION(S). Includes dimensions: WIDTH 12'-0", HEIGHT 9'-6", BORDER WIDTH 4, BORDER RADI 5, BACKGROUND COLOR GREEN, LEGEND/BORDER COLOR WHITE, SHEETING DG3, ARROW SIZE (ANGLE) 22.25°.

GREEN OVERLAY

ORIGINAL PANEL IN TRADITIONAL FONT



OVERLAY SIZE: 5'-0"X1'-6"

COPY SPACING

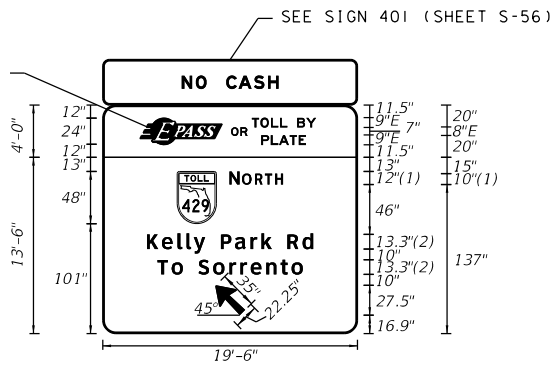
LENGTH SIZE/SERIES

Table with 13 columns for copy spacing and length. Includes an 'EXISTING SIGN' diagram for 'SOUTH EAST TOLLS 429 414 NEXT RIGHT'.

Table with 3 columns: SIGN, QUANTITY, STATION(S). Includes dimensions: WIDTH 19'-6", HEIGHT 17'-6", BORDER WIDTH 2", BORDER RADI 5, BACKGROUND COLOR WHITE/GREEN, LEGEND/BORDER COLOR BLACK/BLACK & WHITE/WHITE, SHEETING DG3, ARROW SIZE (ANGLE) 22.25°.

FONT:
(1) CLEARVIEWHWY-4-W
(2) CLEARVIEWHWY-5-W

LOGO EP-5



1. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)

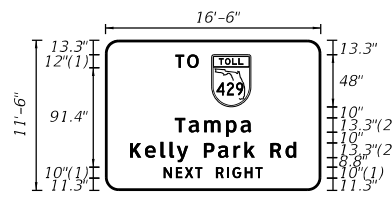
COPY SPACING

LENGTH SIZE/SERIES

Table with 13 columns for copy spacing and length. Includes an 'EXISTING SIGN' diagram for 'Kelly Park Rd'.

Table with 3 columns: SIGN, QUANTITY, STATION(S). Includes dimensions: WIDTH 16'-6", HEIGHT 11'-6", BORDER WIDTH 2", BORDER RADI 5, BACKGROUND COLOR GREEN, LEGEND/BORDER COLOR WHITE/WHITE, SHEETING DG3, ARROW SIZE (ANGLE) 22.25°.

FONT:
(1) CLEARVIEWHWY-4-W
(2) CLEARVIEWHWY-5-W



1. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)

COPY SPACING

LENGTH SIZE/SERIES

Table with 13 columns for copy spacing and length. Includes an 'EXISTING SIGN' diagram for 'Tampa Kelly Park Rd'.

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

Table with 4 columns: DATE, DESCRIPTION, DATE, DESCRIPTION.

HNTB logo and contact information: HNTB CORPORATION, 610 CRESCENT EXECUTIVE CT, SUITE 400, LAKE MARY, FL 32746, (407) 805-0355, CERT. OF AUTH. NO. 6500. ENGINEER OF RECORD: STEVEN D. MIKSELL, P.E. FL REGISTRATION NO. 58703.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY logo and project info: ROAD NO. SR 429, PROJECT NO. 429-202.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GUIDE SIGN WORKSHEET SIGNS 404, 405, 501, 502

SHEET NO. S-57

PRINT DRIVER: SPLITDRVS\$ PEN TABLE: \$PENBLSS

SIGN	601	STATION(S)
QUANTITY	1	1 845+20 (GM-2)
WIDTH	16'-6"	2
HEIGHT	12'-6"	3
BORDER WIDTH	2"	4
BORDER RADII	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
(1) CLEARVIEWHWY-4-W
(2) CLEARVIEWHWY-5-W



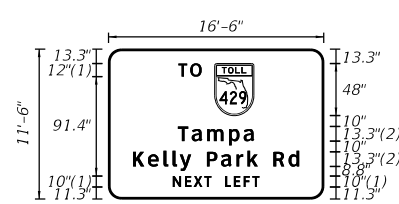
1. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)

COPY SPACING LENGTH SIZE/SERIES

65.6	O	c	o	e	e								66.9	65.5					66.9	13.3	CV5W								
15.9	W	i	n	t	e	r	G	a	r	d	e	n		72.6	16.7					76.9	15.9			66.2	13.3	CV5W			
55.6	O	r	i	a	n	d	o							86.9	55.5										86.9	13.3	CV5W		
32.2	U	S	E					S	O	U	T	H		25.9	10.0	36.0	12.0	8.1	3.2						38.5	32.1	133.7	12/10	CV4W

SIGN	602	STATION(S)
QUANTITY	1	1 838+65 (OT-1)
WIDTH	16'-6"	2
HEIGHT	11'-6"	3
BORDER WIDTH	2"	4
BORDER RADII	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
(1) CLEARVIEWHWY-4-W
(2) CLEARVIEWHWY-5-W



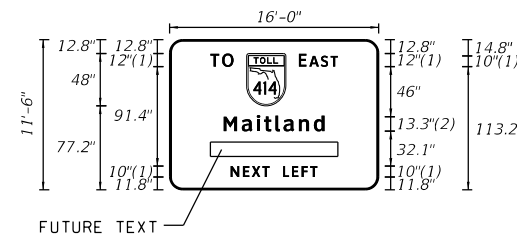
1. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)

COPY SPACING LENGTH SIZE/SERIES

64.4	T	O												21.3	12.0	36.0	64.3									69.3	12	CV4W										
63.9	T	a	m	p	a										70.3													70.3	13.3	CV5W								
23.7	K	e	l	l	y	P	a	r	k	R	d																53.6	13.3	46.8	13.3	23.7	23.6		150.7	13.3	CV5W		
59.1	N	E	X	T	L	E	F	T																				35.7	12.5	31.6	59.1					79.8	10	CV4W

SIGN	603	STATION(S)
QUANTITY	1	1 838+65 (OT-1)
WIDTH	16'-0"	2
HEIGHT	11'-6"	3
BORDER WIDTH	2"	4
BORDER RADII	12"	5
BORDER INSET	0"	
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE/WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

FONT:
(1) CLEARVIEWHWY-4-W
(2) CLEARVIEWHWY-5-W



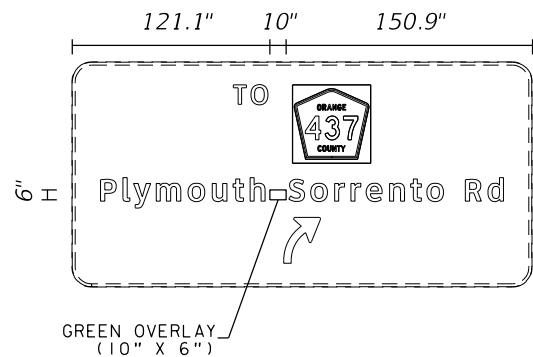
1. TOLL ROUTE SHIELD IS TM2 (SEE SHEET S-63)

COPY SPACING LENGTH SIZE/SERIES

37.4	T	O												21.3	12.0	36.0	12.0	7.1	2.6										26.2	37.4							117.2	12/10	CV4W	
49.7	M	a	i	t	l	a	n	d																					92.7						49.6			92.7	13.3	CV5W
56.1	N	E	X	T	L	E	F	T																				35.7	12.5	31.6	56.1							79.8	10	CV4W

SIGN	604	STATION(S)
QUANTITY	1	1 94+57 (EXISTING)
WIDTH	23'-6"	2
HEIGHT	11'-6"	3
BORDER WIDTH		4
BORDER RADII		5
BORDER INSET		
BACKGROUND COLOR	GREEN	
LEGEND/BORDER COLOR	WHITE	
SHEETING	DG3	
ARROW SIZE (ANGLE)		

ORIGINAL PANEL IN TRADITIONAL FONT



OVERLAY SIZE: 0'-10"X0'-6"

COPY SPACING LENGTH SIZE/SERIES

EXISTING SIGN																										
TO ORANGE COUNTY 437 Plymouth Sorrento Rd																										

NOTES: WIDTH - HORIZONTAL SPACING DIMENSIONS ARE IN INCHES. END DIMENSIONS INCLUDE BORDER WIDTH, MARGIN AND BORDER RECESS.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

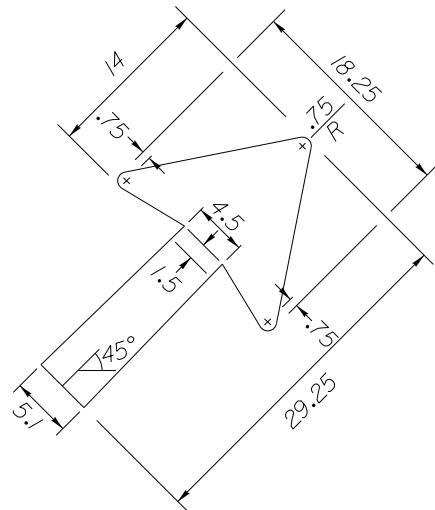
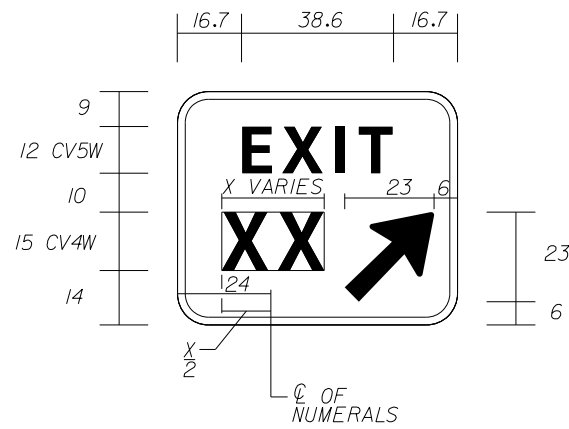
ENGINEER OF RECORD: STEVEN D. MIKSELL, P.E.
FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ROAD NO. PROJECT NO.
SR 429 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

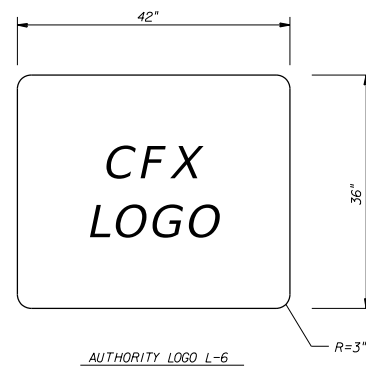
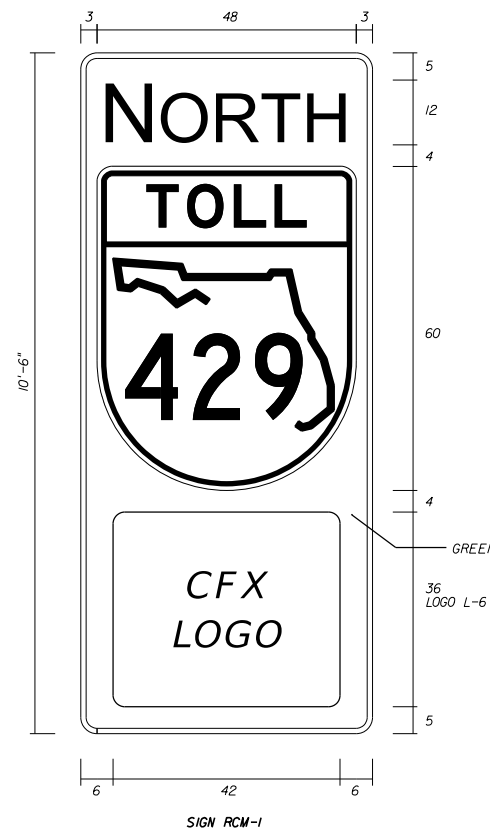
GUIDE SIGN WORKSHEET SIGNS 601, 602, 603, 604

SIGN E5-1a QTY REQ'D 2
 6'-0" x 5'-0"



EXIT GORE SIGN NOTES:

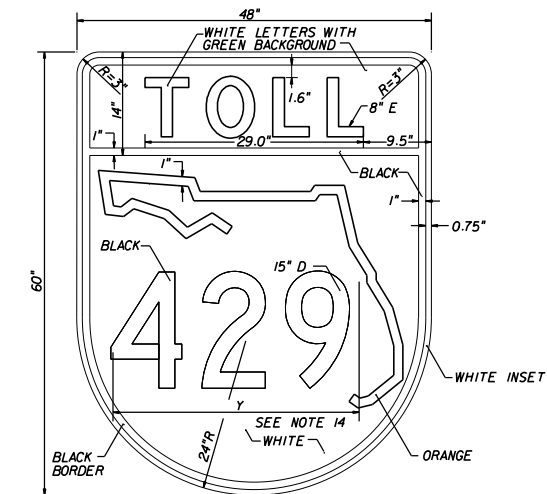
1. ALL DIMENSIONS ARE IN INCHES.
2. EXIT GORE PANEL:
 BACKGROUND: DG3 GREEN
 LEGEND AND BORDER: DG3 WHITE
 CORNER RADII: 8"
 BORDER: 2"
3. FABRICATOR SHALL OPTICALLY LOCATE NUMERALS OR NUMERALS AND SUFFIX AS NEEDED.
4. SHOP DRAWINGS ARE REQUIRED.



COPY SPACING		SIZE/SERIES	
	NORTH		12/10 CV3W
3.0	48	3.0	

ROUTE CONFIRMATION MAKERS NOTES:

1. PANELS SHALL BE FABRICATED USING 3M COMPANY DIAMOND GRADE CUBED (DG3) SHEETING OR AUTHORITY APPROVED EQUAL.
2. MAIN PANEL:
 BACKGROUND: GREEN
 BORDER: WHITE
 BORDER WIDTH: 1"
 CORNER RADII: 3"
3. CARDINAL DIRECTION: WHITE
4. MAKE FIRST LETTER OF CARDINAL DIRECTION 20% LARGER MINIMUM. ALL LETTERS ARE BOTTOM JUSTIFIED.
5. TOLL SHIELD SPECIAL COLORS:
 PURPLE: 3M COMPANY DG3 SHEETING MATCHING 3M 1170-13 VIOLET EC FILM.
 ORANGE: 3M COMPANY EC FILM SERIES 1174 OR AUTHORITY APPROVED EQUAL.
6. LOGO L-6 SHALL BE CENTERED WITHIN A 42"x36" WHITE RECTANGLE. THE WHITE RECTANGLE SHALL BE USED IN VERTICAL AND HORIZONTAL PANEL DIMENSIONING. THE CONTRACTOR SHALL OBTAIN NEW CFX LOGO DETAILS FROM THE AUTHORITY.
7. GRAPHIC FILES FOR THE TOLL SHIELD AND LOGO CAN BE PROVIDED FOR USE IN FABRICATION UPON REQUEST.
8. FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM 1170 CLEAR ON THE AUTHORITY DESIGNATED ORANGE. INSTALLATION SHALL BE PART OF A 3M MATCHED COMPONENT SYSTEM AND MEET ALL 3M SIGN FABRICATION REQUIREMENTS. CONTACT 3M COMPANY 1-800-553-1380.
9. ALL DIMENSIONS ON SHEET ARE IN INCHES.
10. IF A COLOR AND/OR SHEETING OTHER THAN THOSE NOTED SPECIFICALLY AS 3M COMPANY PRODUCTS ARE TO BE USED, CONTRACTOR SHALL PROVIDE A 4" X 4" SAMPLE IN ALL COLORS. NO FABRICATION SHALL COMMENCE UNTIL THE SAMPLE HAS BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM THE AUTHORITY. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
11. DETAILED SHOP DRAWINGS ARE REQUIRED. ONE REPRESENTATIVE SHOP DRAWING PER CARDINAL DIRECTION MAY BE SUBMITTED PROVIDED THE APPROPRIATE QUANTITY IS SHOWN PER DIRECTION.
12. FABRICATOR SHALL USE STATE OUTLINE CONFIGURATION SHOWN IN TOLL SHIELD DETAIL.
13. FABRICATOR TO REDUCE CARDINAL DIRECTION COPY SPACING AS NEEDED TO MEET SPECIFIED LENGTHS.
14. FABRICATOR SHALL USE STANDARD HORIZONTAL SPACING FOR NUMERALS IN ROUTE SHIELD WHEN POSSIBLE. FABRICATOR SHALL OPTICALLY ADJUST NUMERAL SPACING AS NEEDED TO PREVENT OVERLAP ONTO THE STATE OUTLINE OR SHIELD BORDER.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

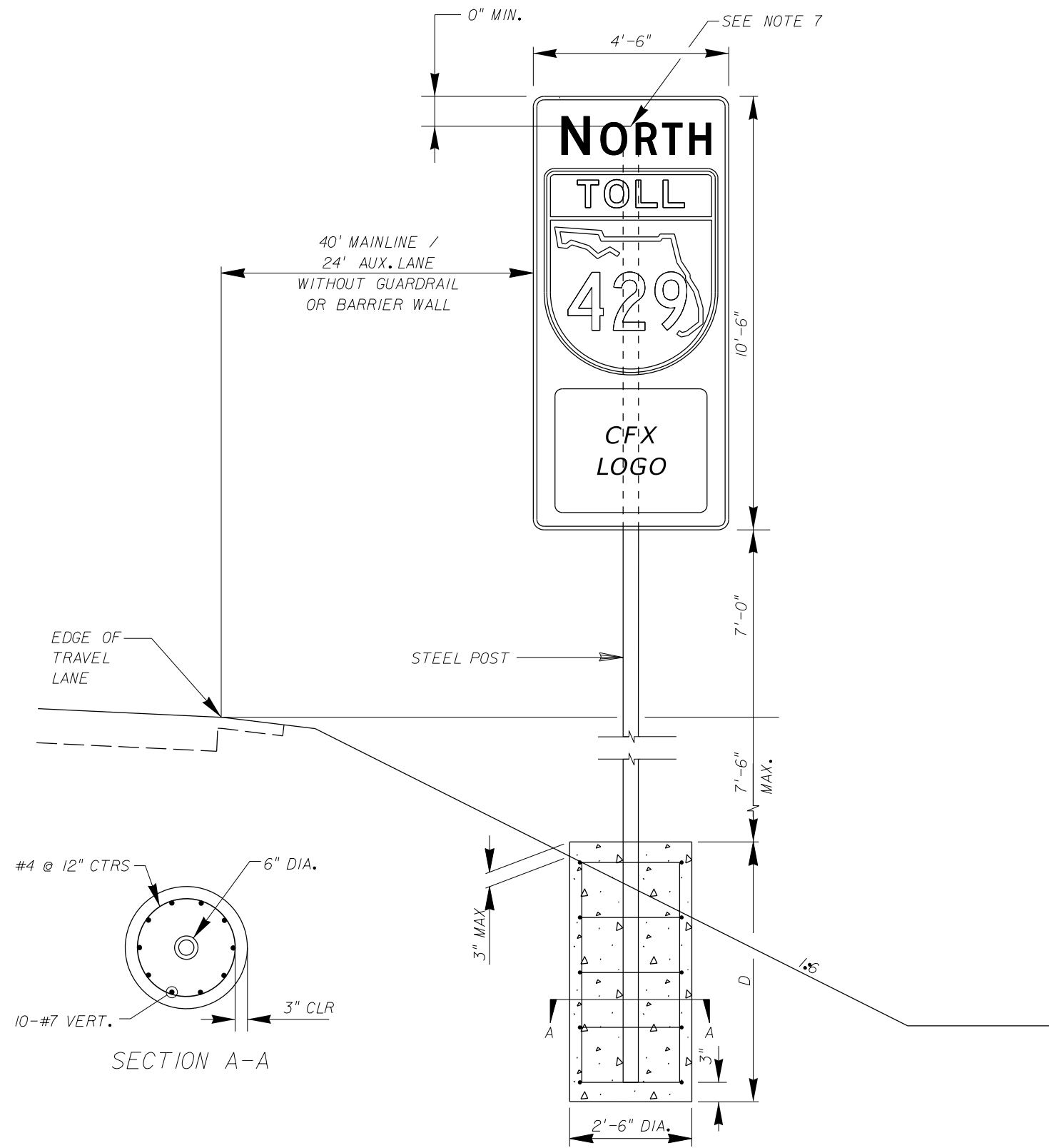
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

**SPECIAL DETAILS
 EXIT GORE SIGN AND
 ROUTE CONFIRMATION MARKERS**

SHEET NO.
 S-59



NOTES:

1. DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. AASHTO 2009, 5TH EDITION AND INTERIMS THEREAFTER. DESIGN WIND SPEED = 130 MPH.
2. MATERIAL:
 - A. STEEL POST SHALL CONFORM TO ASTM A500 GRADE B (Fy = 42 KSI), ROUND HSS 6x0.5 HOT DIPPED GALVANIZED PER ASTM A123.
 - B. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
 - C. CONCRETE SHALL BE CLASS II, f'c= 3400 PSI IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 346
3. FOUNDATION: SEE GENERAL NOTES, FOUNDATION, IN INDEX I1200.
4. SOIL PROPERTIES USED IN DESIGN:
 - A. SOIL UNIT WEIGHT: 50 PCF
 - B. SOIL INTERNAL FRICTION ANGLE: 30 DEGREES
5. SIGN ATTACHMENT BRACKETS SHALL BE IN ACCORDANCE WITH FDOT ROADWAY INDEX I1860.

Sign 4'-6" x 10'-6" • 5 BRACKETS
6. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR THE ASSEMBLY.
7. PROVIDE 1/4" THICK STEEL CAP ON TOP OF POST AND WELD AROUND TO THE POST.

DIM	SLOPE ≤ 1:6	SLOPE ≤ 1:2
D	9'-6"	11'-0"

SIGN SP-1, SP-2 & SP-3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
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ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

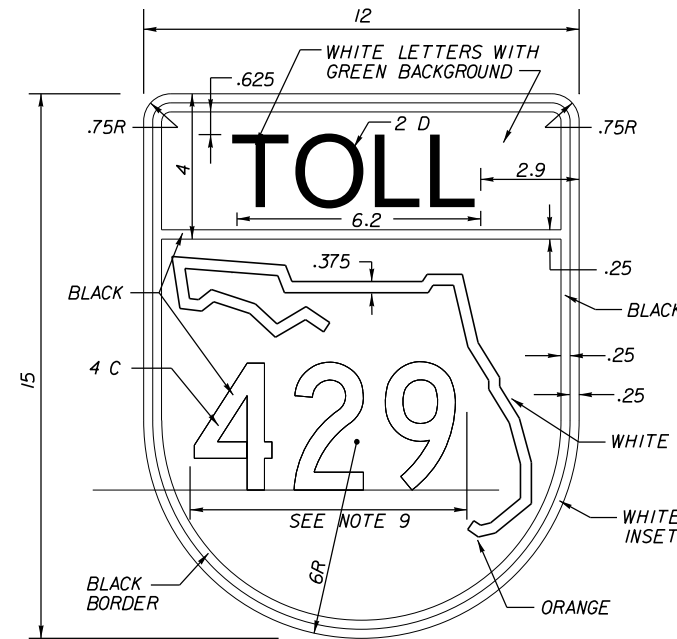
CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SPECIAL DETAILS
ROUTE CONFIRMATION MARKERS
STRUCTURAL DESIGN

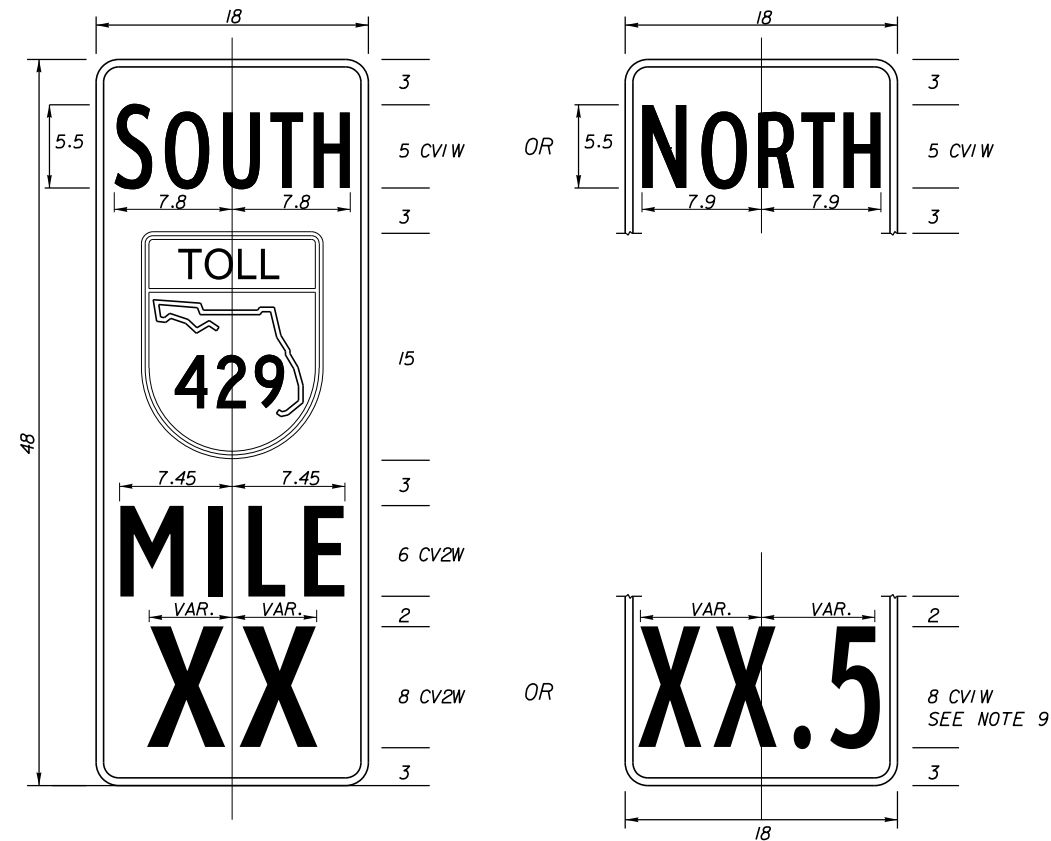
SHEET NO.
 S-60

SR 429 MILEPOSTS			
M.P. NO.	PROP. STATION	AS-BUILT STATION	LOCATION REFERENCE POINT
32.5	-	636+71	EXISTING SIGN AT STA. 633+80
33	-	663+11	EXISTING SIGN AT STA. 662+00
33.5	-	689+51	EXISTING SPEED LIMIT SIGN AT STA. 688+00
34	104+75	-	GM-4 STATION 104+70
34.5	131+46	-	SP-3 AT STA. 133+44
35	157+86	-	GM-8 AT STA. 160+00
35.5	183+90 NB 184+50 SB	-	TOLL GANTRY AT STA. 183+00 NB AND STA. 184+00 SB
36	210+66	-	GM-14 AT STATION 207+60



NOTES:

- PANELS SHALL BE FABRICATED USING 3M COMPANY DIAMOND GRADE CUBED (DG3) SHEETING OR AUTHORITY APPROVED EQUAL.
- MAIN PANEL:
 BACKGROUND: GREEN
 LEGEND AND BORDER: WHITE
 BORDER WIDTH: 0.5"
 CORNER RADII: 1.5"
- MAKE FIRST LETTER OF CARDINAL DIRECTION 10% LARGER (AS SHOWN). ALL LETTERS ARE BOTTOM JUSTIFIED.
- TOLL SHIELD COLORS:
 BLACK
 WHITE
 GREEN
 ORANGE: 3M COMPANY EC FILM NO. 1174 OR AUTHORITY APPROVED EQUAL.
- FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM 1170 CLEAR ON THE AUTHORITY DESIGNATED ORANGE. INSTALLATION SHALL BE PART OF A 3M MATCHED COMPONENT SYSTEM AND MEET ALL 3M SIGN FABRICATION REQUIREMENTS. CONTACT 3M COMPANY 1-800-553-1380.
- ALL DIMENSIONS ON SHEET ARE IN INCHES.
- IF A COLOR AND/OR SHEETING OTHER THAN THOSE NOTED SPECIFICALLY AS 3M COMPANY PRODUCTS ARE TO BE USED, CONTRACTOR SHALL PROVIDE 4" X 4" SAMPLE IN ALL COLORS. NO FABRICATION SHALL COMMENCE UNTIL THE SAMPLE HAS BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM THE AUTHORITY. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- OPTICALLY LOCATE MILEPOST NUMERALS IN BOTH FORMATS (XX AND XX.5) ABOUT THE CENTERLINE.
- FABRICATOR TO ADJUST HORIZONTAL SPACING AS NECESSARY TO FIT. DO NOT OVERLAP ONTO STATE OUTLINE OR SHIELD BORDER.
- DETAILED SHOP DRAWINGS ARE REQUIRED.
- FABRICATOR SHALL USE THE STATE OUTLINE CONFIGURATION SHOWN IN THE TOLL SHIELD DETAIL.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY

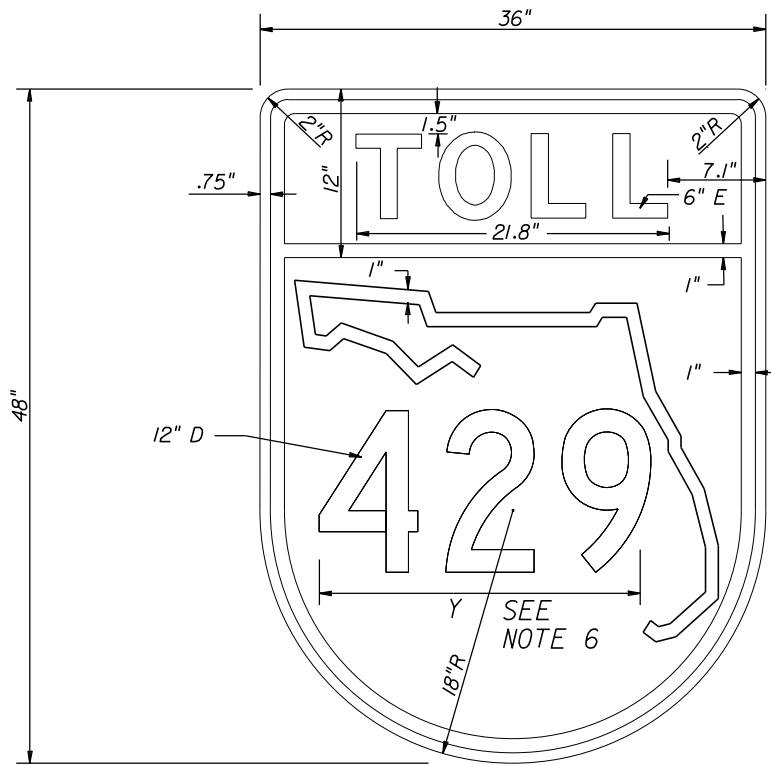
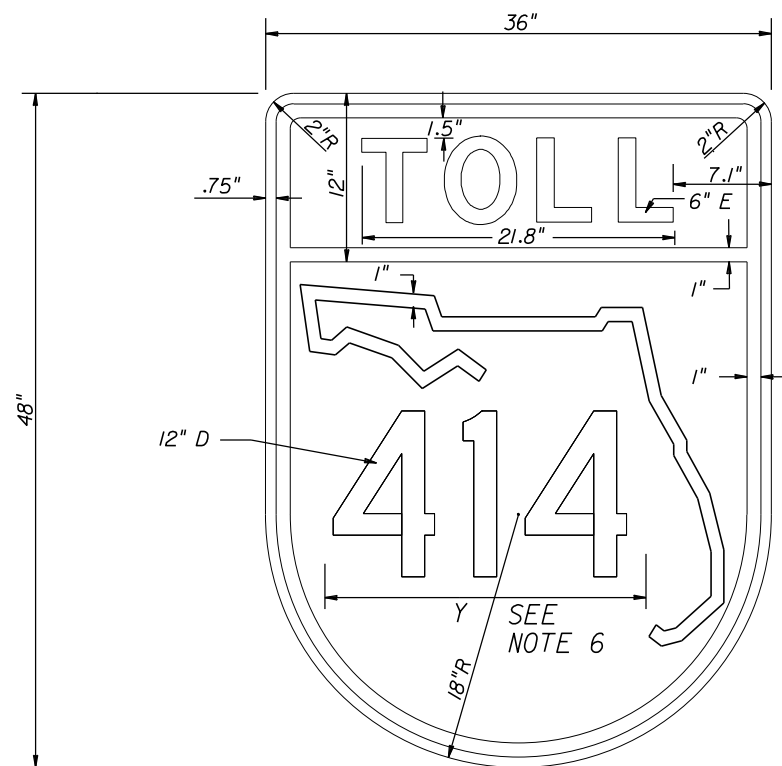
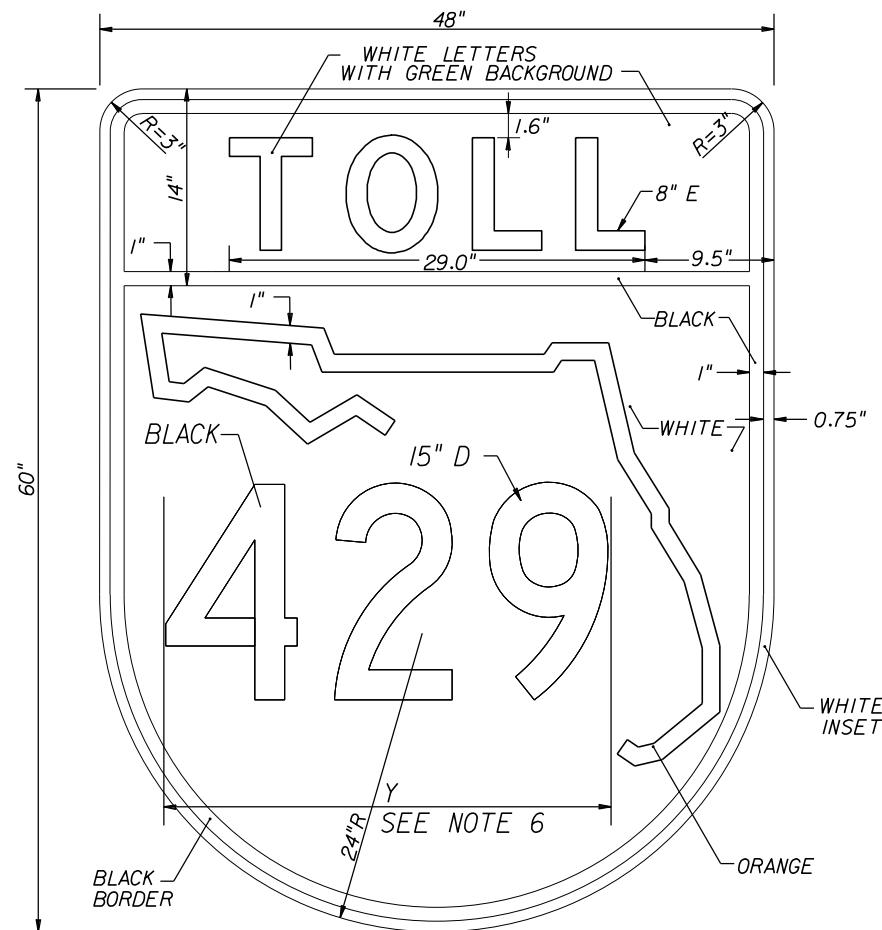
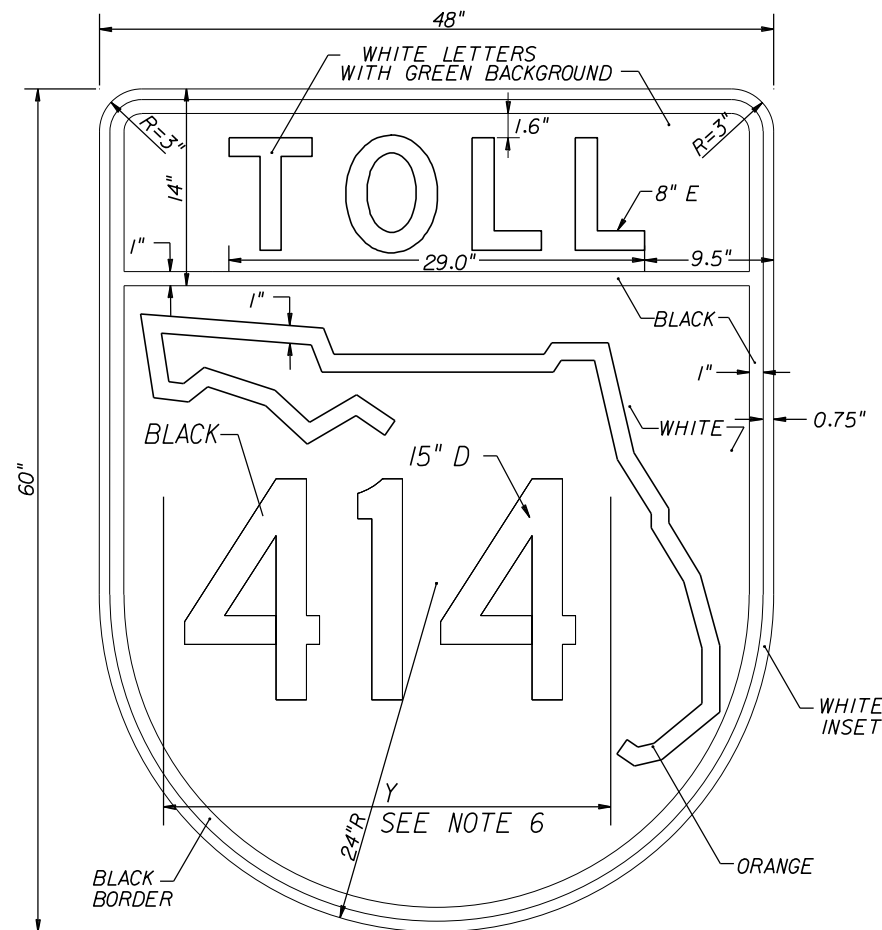
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

SPECIAL DETAILS
 MILEPOST DETAIL AND
 LOCATIONS TABLE

SHEET
 NO.

S-61



NOTES:

1. COLORS INDICATED ON 48"x60" SHIELD ARE APPLICABLE TO ALL SIZES.
2. SHIELD TO BE FABRICATED WITH 3M COMPANY DIAMOND GRADE CUBED (DG3) REFLECTIVE SHEETING OR AUTHORITY APPROVAL EQUAL.
3. SHOP DRAWINGS ARE REQUIRED.
4. COLORS:
 BLACK
 WHITE
 GREEN
 ORANGE, 3M COMPANY EC FILM SERIES I174 OR AUTHORITY APPROVED EQUAL.
 IF A COLOR AND/OR SHEETING OTHER THAN THOSE NOTED SPECIFICALLY AS 3M COMPANY PRODUCTS ARE TO BE USED, CONTRACTOR SHALL PROVIDE A 4" x 4" SAMPLE IN ALL COLORS. NO FABRICATION SHALL COMMENCE UNTIL THE SAMPLE HAS BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM THE AUTHORITY. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM I170 CLEAR ON THE AUTHORITY DESIGNATED ORANGE. INSTALLATION SHALL BE PART OF A 3M MATCHED COMPONENT SYSTEM AND MEET ALL 3M SIGN FABRICATION REQUIREMENTS. CONTACT 3M AT 1-800-553-1380.
6. FABRICATOR SHALL USE STANDARD HORIZONTAL SPACING FOR NUMERALS WITHIN A ROUTE SHIELD WHEN POSSIBLE. FABRICATOR SHALL OPTICALLY ADJUST NUMERAL SPACING AS NEEDED TO PREVENT OVERLAP ONTO THE STATE OUTLINE OR SHIELD BORDER.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

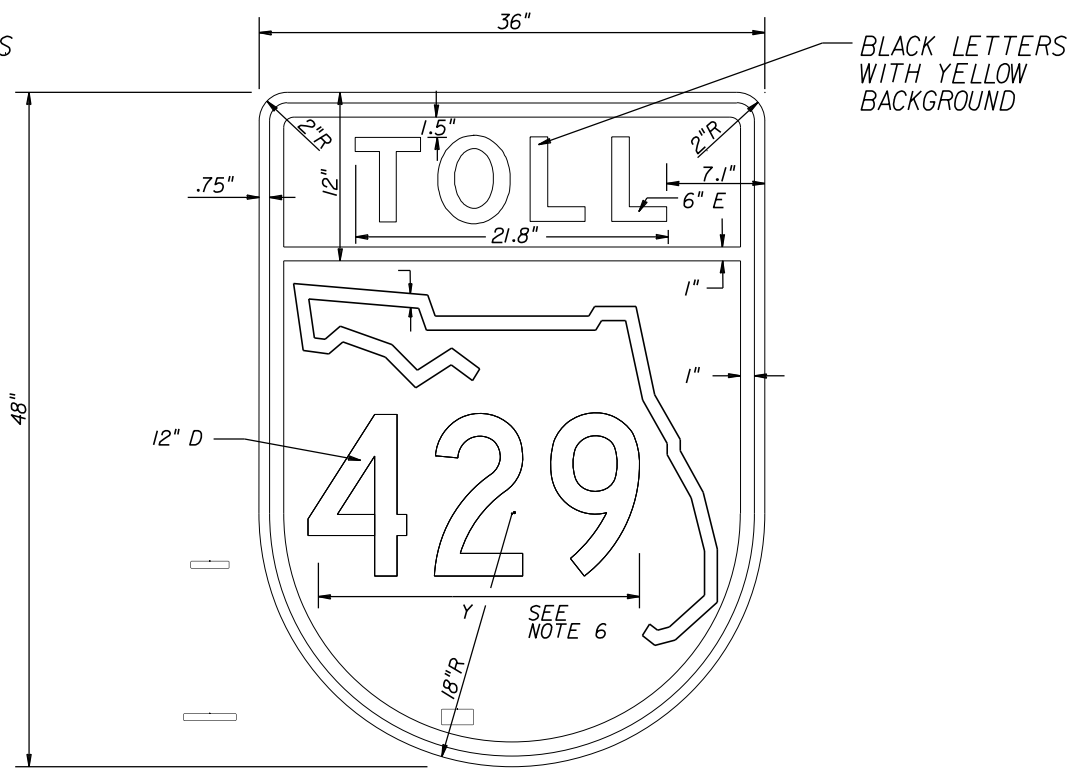
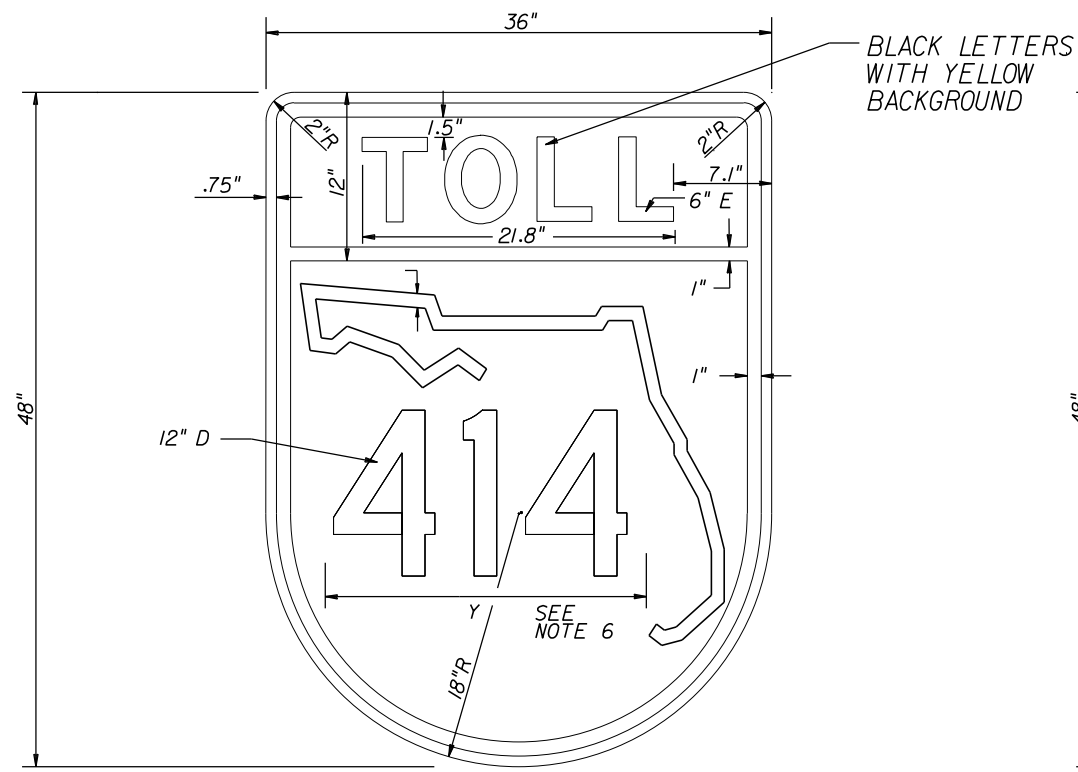
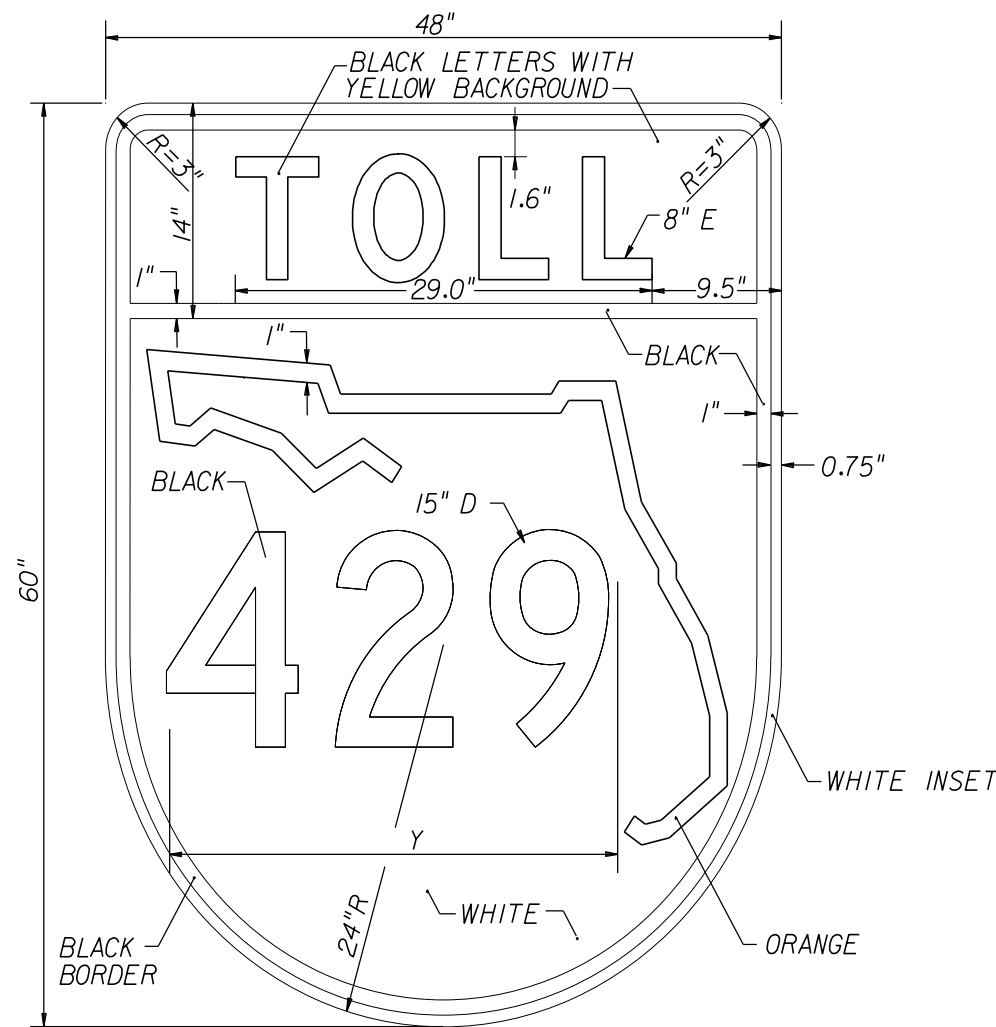
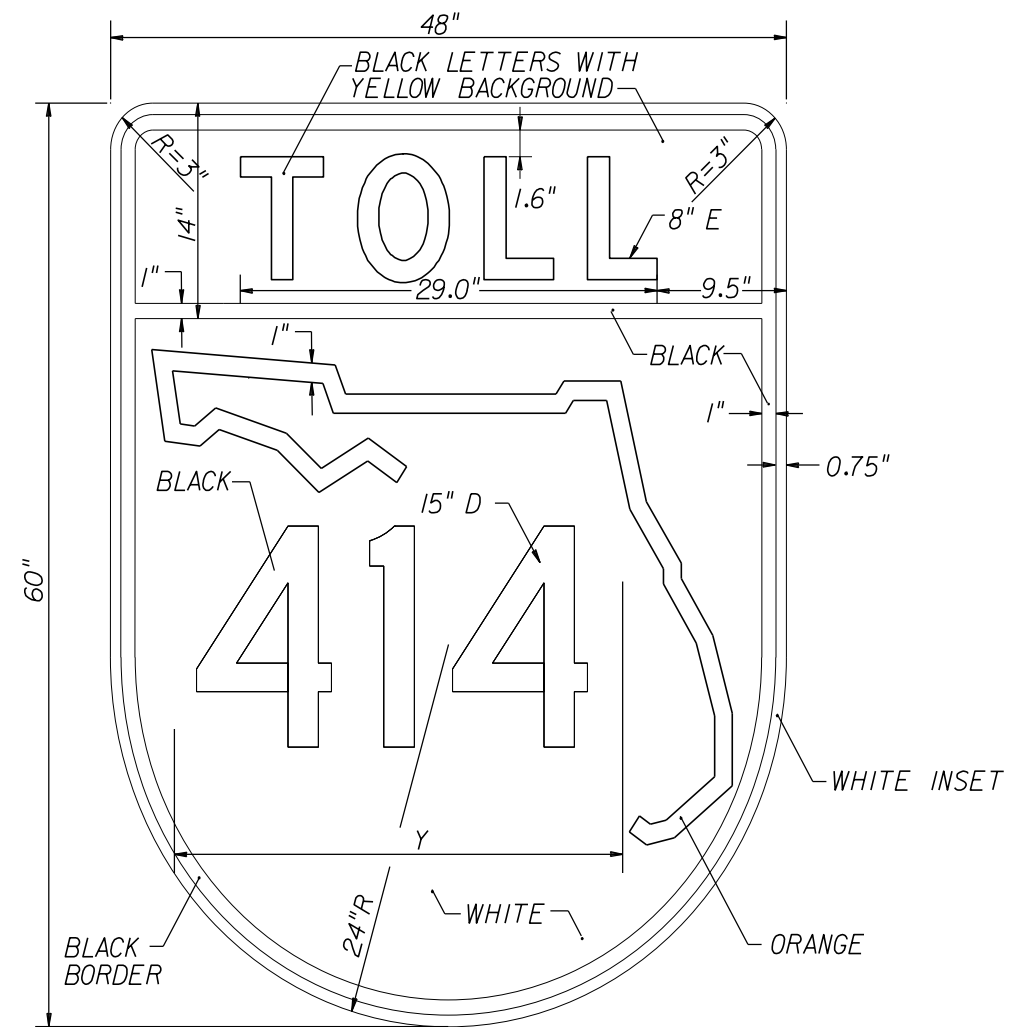
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**SPECIAL DETAILS
 TOLL ROUTE SHIELD (TM)**

SHEET
 NO.

S-62



- NOTES:**
- COLORS INDICATED ON 48"x60" SHIELD ARE APPLICABLE TO ALL SIZES.
 - SHIELD TO BE FABRICATED WITH 3M COMPANY DIAMOND GRADE CUBED (DG3) REFLECTIVE SHEETING OR AUTHORITY APPROVAL EQUAL.
 - SHOP DRAWINGS ARE REQUIRED.
 - COLORS:
 BLACK
 WHITE
 GREEN
 ORANGE, 3M COMPANY EC FILM SERIES I174 OR AUTHORITY APPROVED EQUAL.
 IF A COLOR AND/OR SHEETING OTHER THAN THOSE NOTED SPECIFICALLY AS 3M COMPANY PRODUCTS ARE TO BE USED, CONTRACTOR SHALL PROVIDE A 4" x 4" SAMPLE IN ALL COLORS. NO FABRICATION SHALL COMMENCE UNTIL THE SAMPLE HAS BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM THE AUTHORITY. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM I170 CLEAR ON THE AUTHORITY DESIGNATED ORANGE. INSTALLATION SHALL BE PART OF A 3M MATCHED COMPONENT SYSTEM AND MEET ALL 3M SIGN FABRICATION REQUIREMENTS. CONTACT 3M AT 1-800-553-1380.
 - FABRICATOR SHALL USE STANDARD HORIZONTAL SPACING FOR NUMERALS WITHIN A ROUTE SHIELD WHEN POSSIBLE. FABRICATOR SHALL OPTICALLY ADJUST NUMERAL SPACING AS NEEDED TO PREVENT OVERLAP ONTO THE STATE OUTLINE OR SHIELD BORDER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

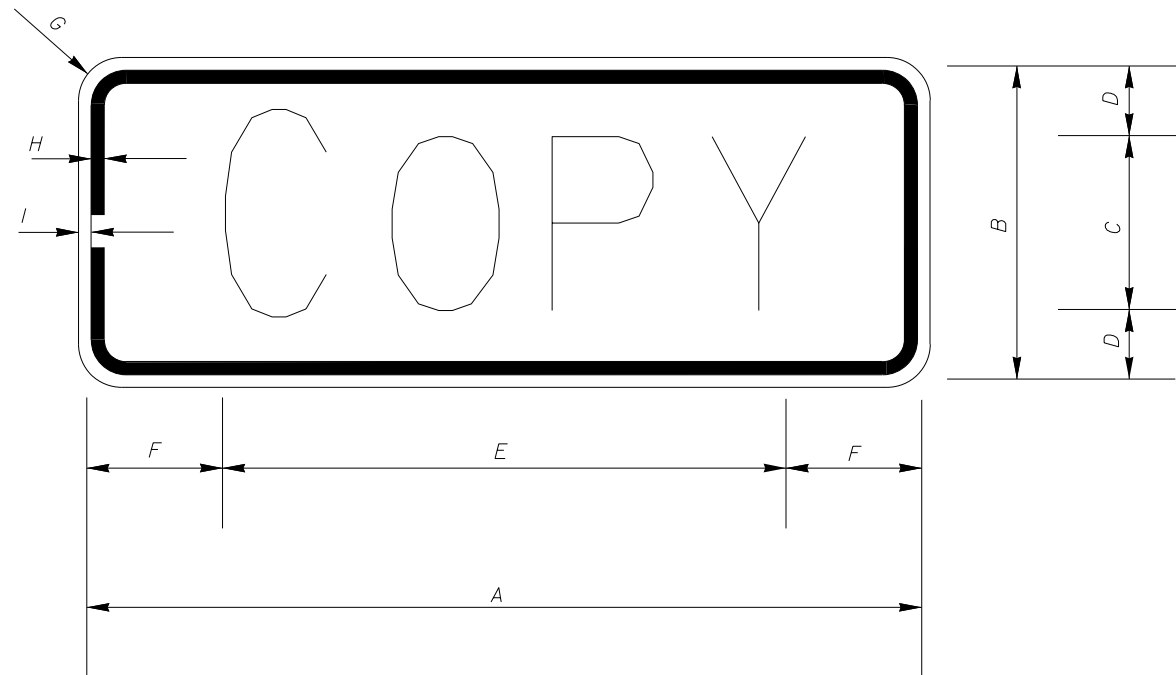
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SPECIAL DETAILS
TOLL ROUTE SHIELD (TM2)

SHEET NO.
 S-63



	CODE	COPY	A	B	C	D	E	F	G	H	I	QTY. REQ'D
*	M3-1X	NORTH	36	18	9C	4.5	30.0	3.0	1.5	.625	.375	2
	M3-2X	EAST	36	18	10C	4	25.6	5.2	1.5	.625	.375	1
*	M3-3X	SOUTH	36	18	9C	4.5	30.0	3.0	1.5	.625	.375	1
	M4-5X	TO	36	18	10D	4	14.6	10.7	1.5	.625	.375	1

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. AUXILIARY PANELS WITH TOLL SHIELDS:
 BACKGROUND: DG3 WHITE
 LEGEND & BORDER: BLACK.
3. BACKGROUND, LEGEND AND BORDER COLORS SHALL MATCH ASSOCIATED INTERSTATE, STATE OR COUNTY ROUTE SHIELDS.
4. * REDUCE COPY SPACING TO SPECIFIED OVERALL LENGTH.
5. MAKE FIRST LETTER OF CARDINAL DIRECTION (M3-X, M3-XX) 10% LARGER. ALL LETTERS ARE BOTTOM JUSTIFIED.
6. SHOP DRAWINGS ARE REQUIRED.
7. ALL AUXILLIARY PANELS SHALL BE 3M COMPANY DIAMOND GRADE CUBED (DG3) REFLECTIVE SHEETING OR AUTHORITY APPROVED EQUAL. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

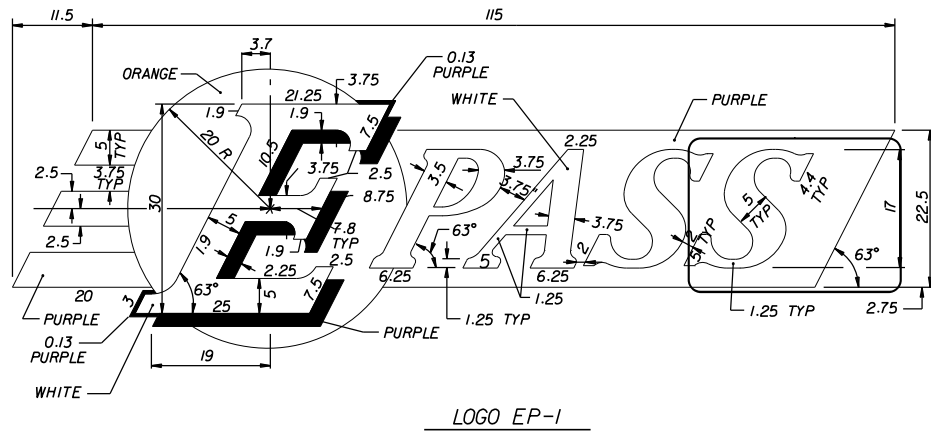
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

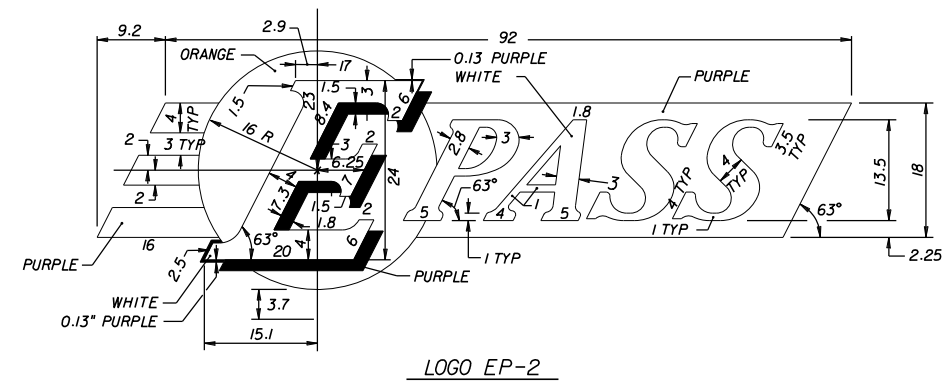
**AUXILIARY PANELS FOR
 ROUTE MARKERS**

SHEET
 NO.

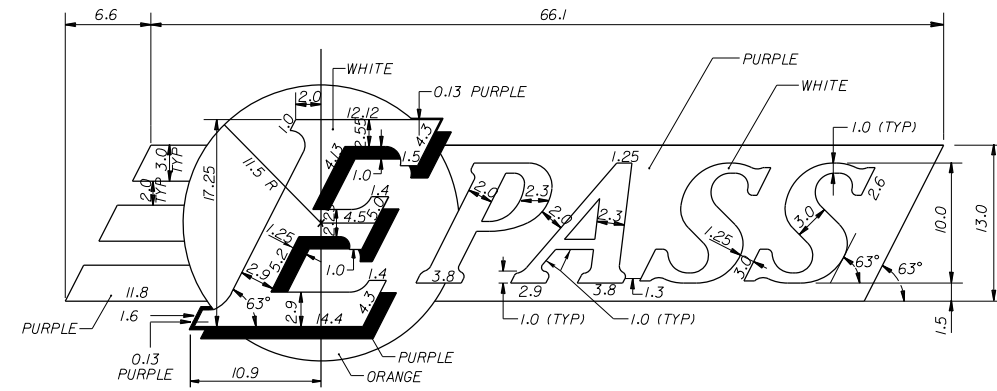
S-64



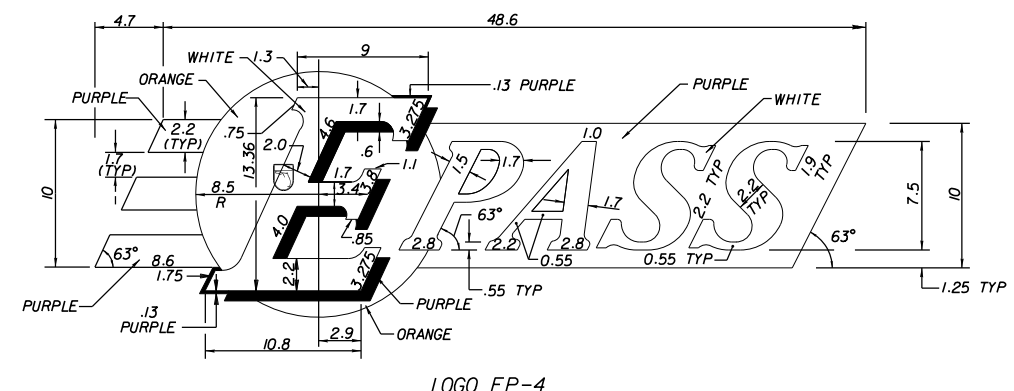
LOGO EP-1



LOGO EP-2



LOGO EP-3



LOGO EP-4

EP LOGO NOTES:

- ALL LOGOS AND SYMBOLS SHALL HAVE PRISMATIC RETROREFLECTIVE SHEETING, 3M COMPANY DIAMOND GRADE CUBED (DG3) OR AUTHORITY APPROVED EQUAL.
- EPASS LOGO COLORS:
 WHITE, 3M COMPANY DG3 RETROREFLECTIVE SHEETING MATCHING 3M I170-13 VIOLET EC FILM OR AUTHORITY APPROVED EQUAL.
 PURPLE, 3M COMPANY EC FILM SERIES I174 OR AUTHORITY APPROVED EQUAL.
- IF COLORS AND/OR SHEETING OTHER THAN THOSE NOTED SPECIFICALLY AS 3M COMPANY ARE TO BE USED, CONTRACTOR SHALL SUBMIT 4"x4" SAMPLES OF EACH IN ALL REQUIRED COLORS. NO FABRICATION SHALL COMMENCE UNTIL SAMPLES HAVE BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM THE AUTHORITY. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM I170 CLEAR ON THE AUTHORITY DESIGNATED ORANGE. INSTALLATION SHALL BE PART OF A 3M MATCHED COMPONENT SYSTEM AND MEET ALL 3M SIGN FABRICATION REQUIREMENTS. CONTACT 3M AT 1-800-553-1380.
- NARROW PORTIONS OF SPECIAL DESIGN COPY IN EPASS LOGOS SHALL HAVE MINIMUM THICKNESS AS FOLLOWS:
 EP-4 = 0.55
 EP-3 = 1.00
 EP-2 = 1.00
 EP-1 = 1.25
- ALL DIMENSIONS ARE IN INCHES.
- FABRICATOR TO BE GIVEN A COMPUTER DISK OF ARTWORK AS NEEDED UPON REQUEST. FABRICATOR MUST SPECIFY FILE FORMAT REQUIRED HOWEVER, SOME FORMATS MAY NOT BE AVAILABLE.
- DRAWINGS ARE NOT TO SCALE.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
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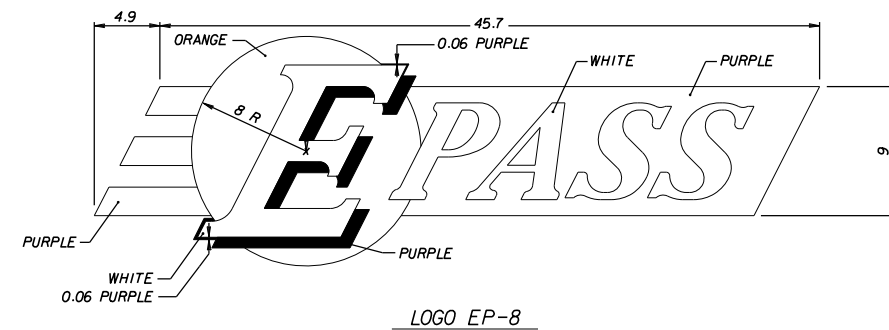
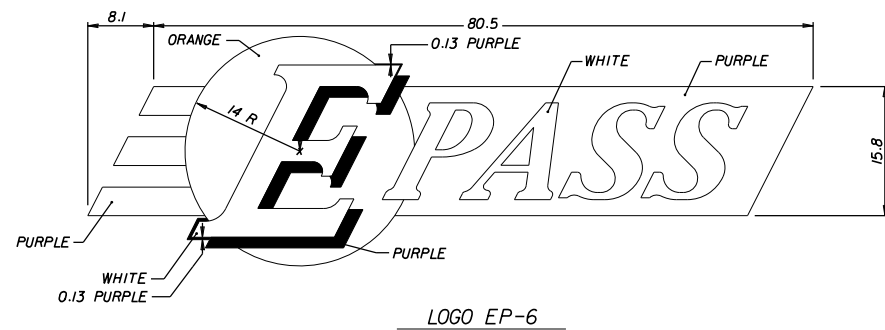
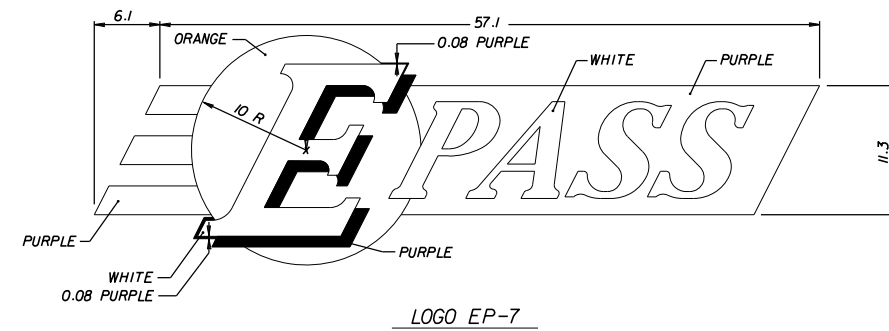
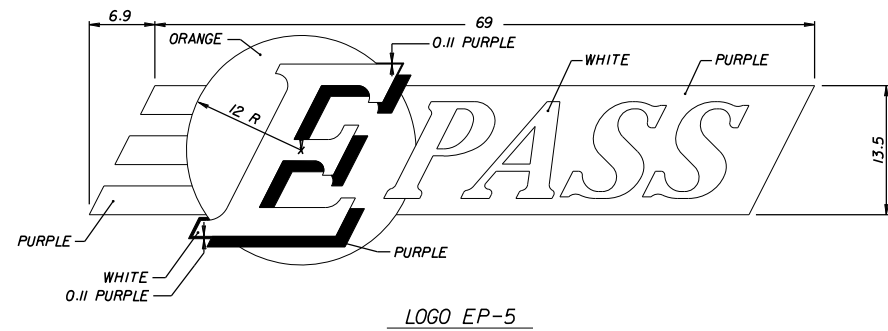
ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SPECIAL DETAILS
EPASS LOGOS EP-1 THRU EP-4

SHEET NO. S-65



EP LOGO NOTES:

- ALL LOGOS AND SYMBOLS SHALL HAVE PRISMATIC RETROREFLECTIVE SHEETING, 3M COMPANY DIAMOND GRADE CUBED (DG3) OR AUTHORITY APPROVED EQUAL.
- EPASS LOGO COLORS:
 WHITE, 3M COMPANY DG3 RETROREFLECTIVE SHEETING MATCHING 3M I170-I3 VIOLET EC FILM OR AUTHORITY APPROVED EQUAL.
 PURPLE, 3M COMPANY EC FILM SERIES I174 OR AUTHORITY APPROVED EQUAL.
- IF COLORS AND/OR SHEETING OTHER THAN THOSE NOTED SPECIFICALLY AS 3M COMPANY ARE TO BE USED, CONTRACTOR SHALL SUBMIT 4"x4" SAMPLES OF EACH IN ALL REQUIRED COLORS. NO FABRICATION SHALL COMMENCE UNTIL SAMPLES HAVE BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM THE AUTHORITY. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM I170 CLEAR ON THE AUTHORITY DESIGNATED ORANGE. INSTALLATION SHALL BE PART OF A 3M MATCHED COMPONENT SYSTEM AND MEET ALL 3M SIGN FABRICATION REQUIREMENTS. CONTACT 3M AT 1-800-553-1380.
- NARROW PORTIONS OF SPECIAL DESIGN COPY IN EPASS LOGOS SHALL HAVE MINIMUM THICKNESS AS FOLLOWS:
 EP-5 = 0.76
 EP-6 = 0.88
 EP-7 = 0.63
 EP-8 = 0.50
- ALL DIMENSIONS ARE IN INCHES.
- FABRICATOR TO BE GIVEN A COMPUTER DISK OF ARTWORK AS NEEDED UPON REQUEST. FABRICATOR MUST SPECIFY FILE FORMAT REQUIRED HOWEVER, SOME FORMATS MAY NOT BE AVAILABLE.
- DRAWINGS ARE NOT TO SCALE.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

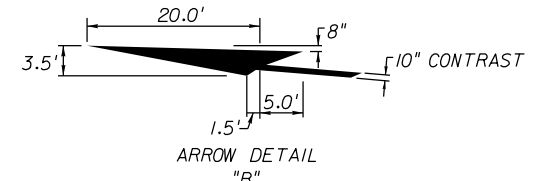
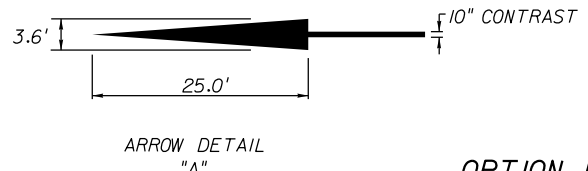
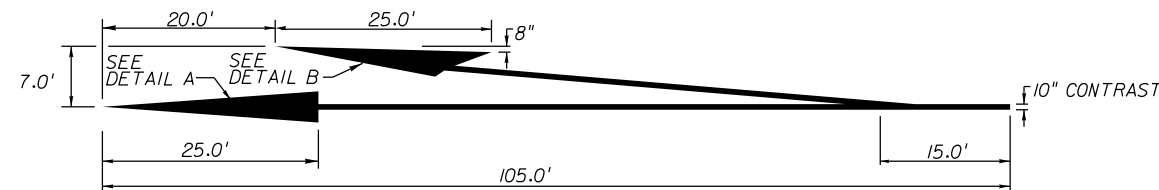
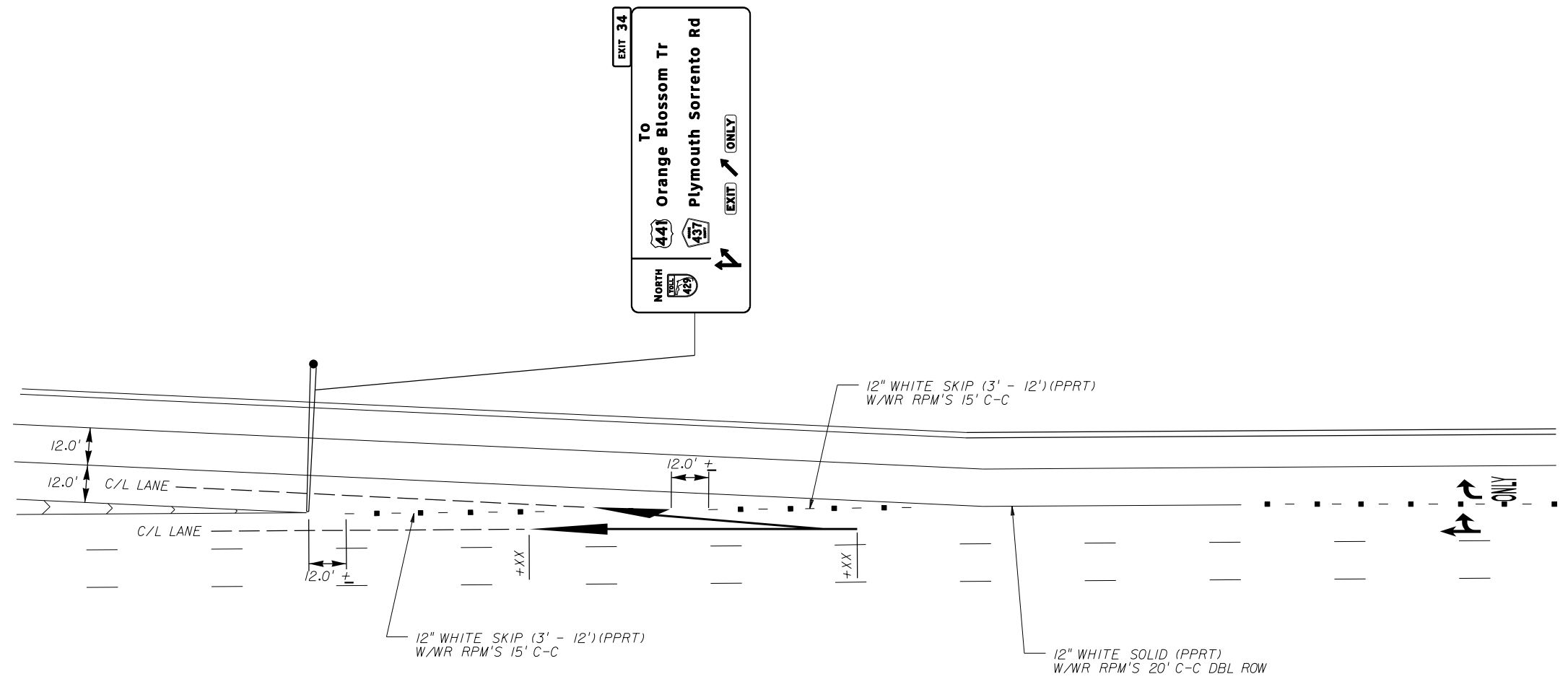
ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

*SPECIAL DETAILS
 EPASS LOGOS EP-5 THRU EP-8*

SHEET
 NO.

S-66



OPTION LANE
 DIRECTIONAL ARROW DETAIL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

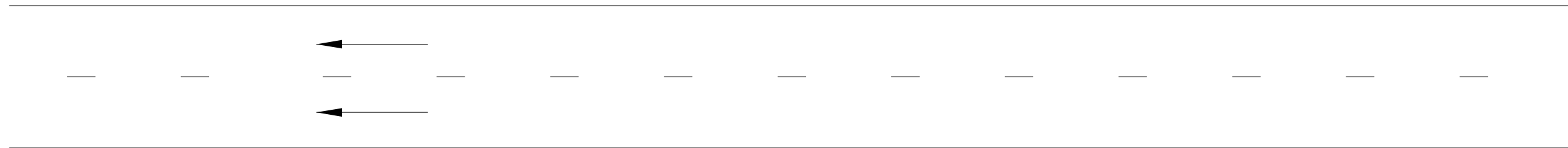
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO. SR 429	PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SPECIAL DETAILS
OPTION LANE
DIRECTIONAL ARROW DETAIL

SHEET NO.
S-67



MAINLINE

DIRECTION OF TRAVEL

500'

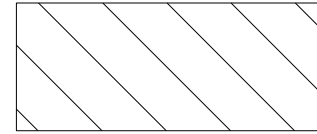
EDGE OF TRAVEL LANE

LINE OF SIGHT

VARIES

PROPOSED SIGN
 (SINGLE OR
 MULTI-POST)

INDICATES LIMITS OF
 VEGETATION REMOVAL OR
 TRIMMING



REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

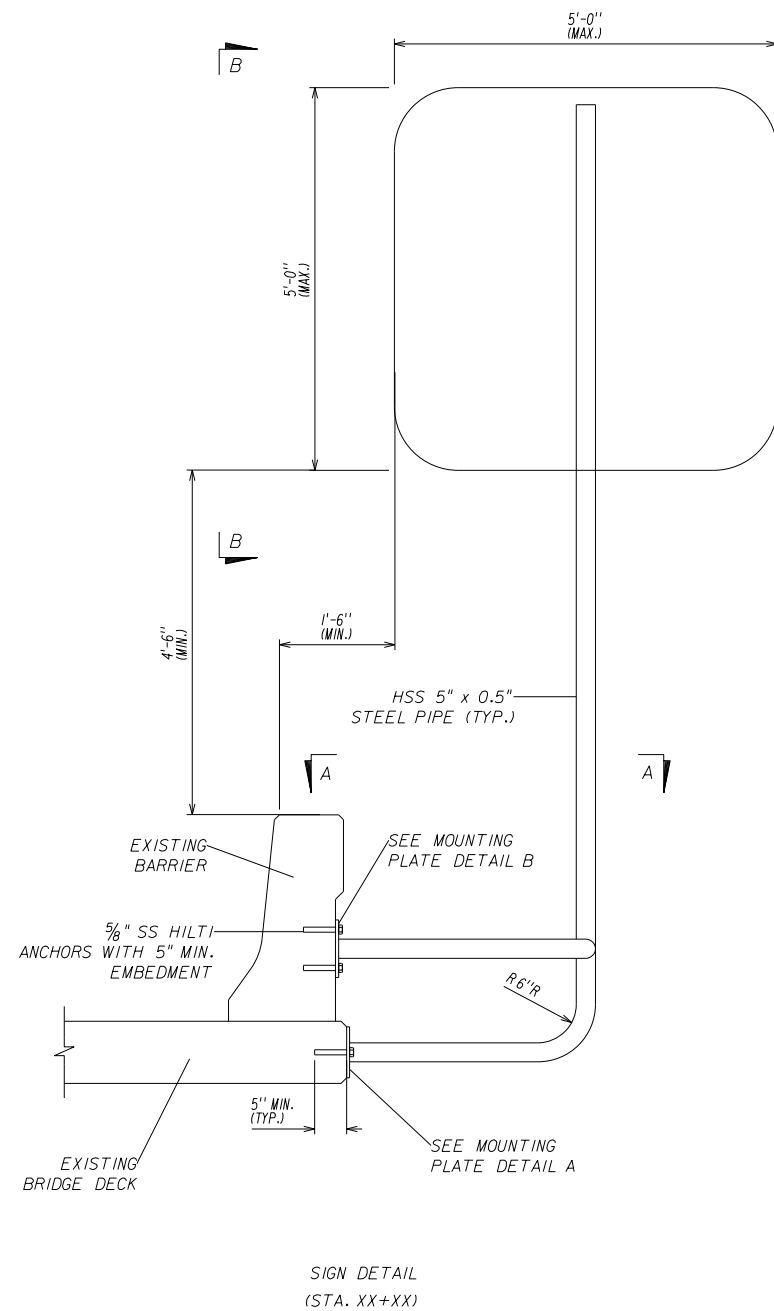
**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**SPECIAL DETAILS
 LINE OF SIGHT
 FOR USE ON MAINLINE**

SHEET
 NO.
 S-68



NOTES:

1. HOLLOW STRUCTURAL STEEL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B (FY= 42 KSI).
2. STEEL PLATES SHALL CONFORM TO ASTM A36.
3. WELDING SHALL CONFORM TO LATEST EDITION OF AWS D1.1 STRUCTURAL WELDING CODE. ALL HSS WELDS TO BE ALL AROUND SEAL WELDS.
4. ALL STRUCTURAL STEEL PLATES, SHAPES, AND ACCESSORIES SHALL BE GALVANIZED ACCORDING TO FDOT SPECIFICATION SECTION 962-7.
5. THE CONTRACTOR SHALL FIELD VERIFY EXISTING REINFORCEMENT LOCATIONS TO MISS THE REBARS WHILE DRILLING FOR THE 5/8" DIAMETER ANCHORS.
6. SHOP DRAWINGS FOR THIS STRUCTURE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
7. PAYMENT FOR THIS ITEM SHALL BE MADE UNDER ITEM NO. 700-1-31, SIGN SINGLE POST (SPECIAL BRIDGE/WALL MOUNT). SEE SIGNING PLANS FOR QUANTITY REQUIRED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
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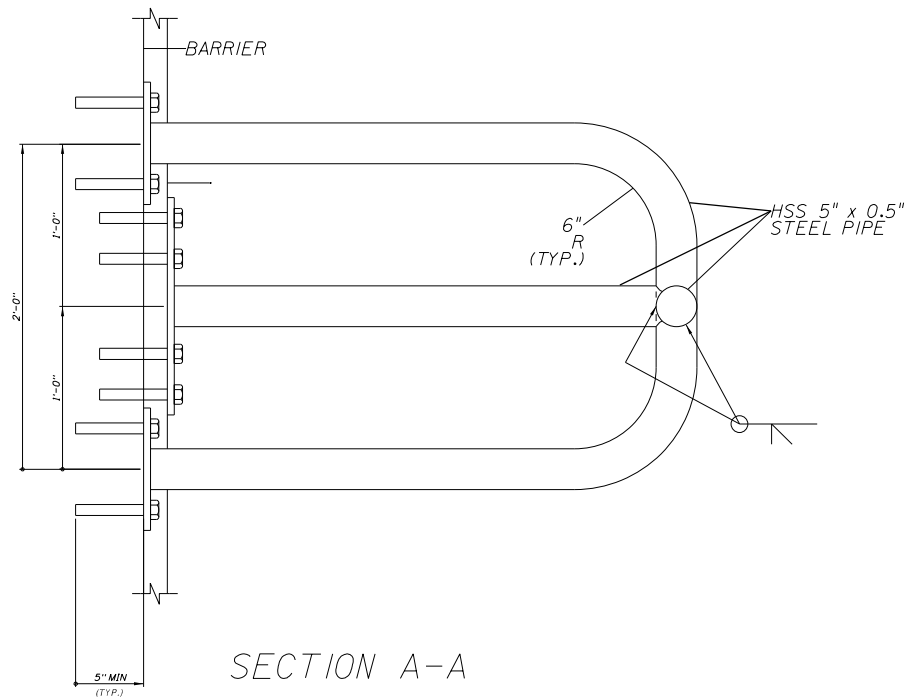
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO.	PROJECT NO.
SR 429	429-202

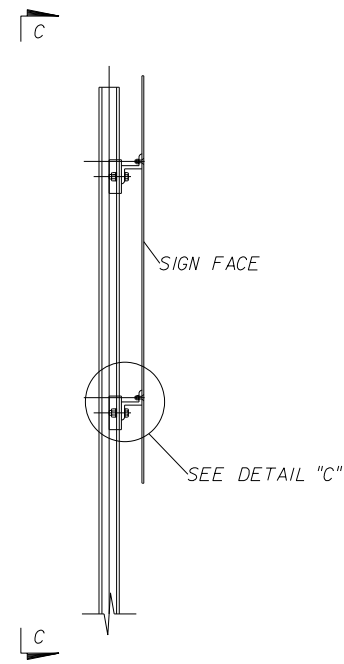
CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**BRIDGE MOUNTED SIGN
 ASSEMBLY DETAIL (SHEET 1)**

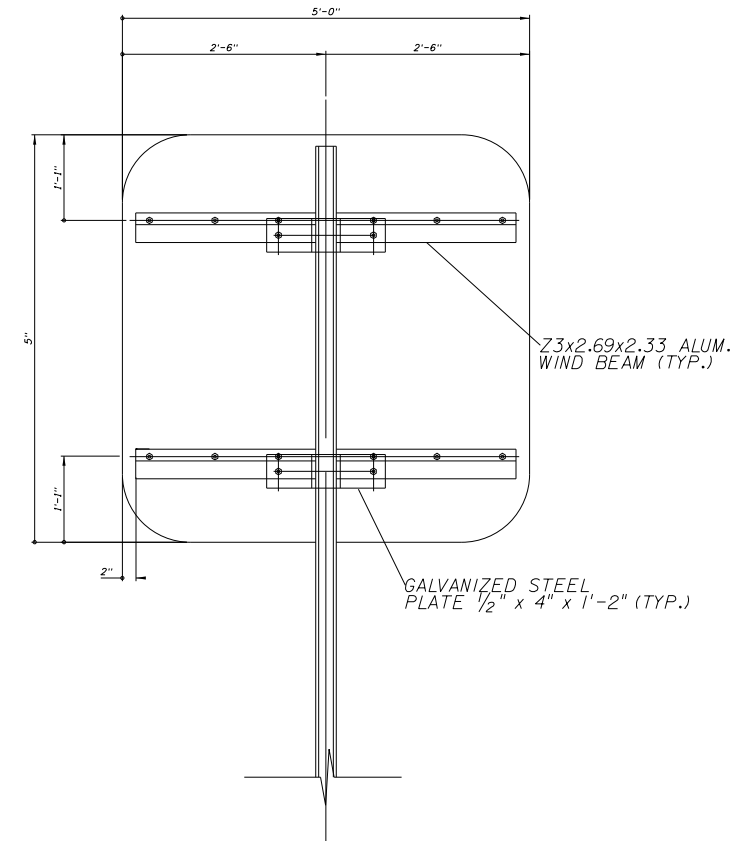
SHEET
 NO.
 S-69



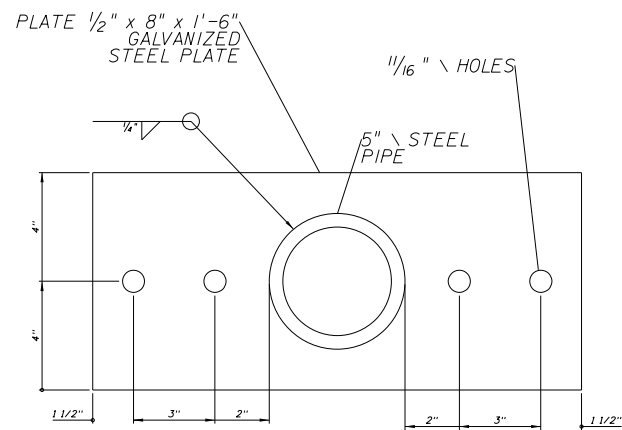
SECTION A-A



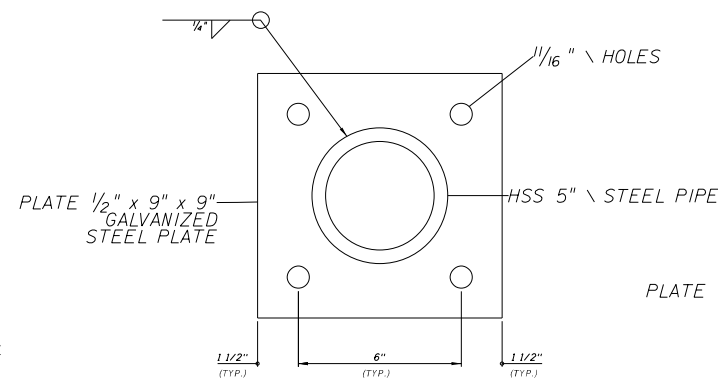
VIEW B-B



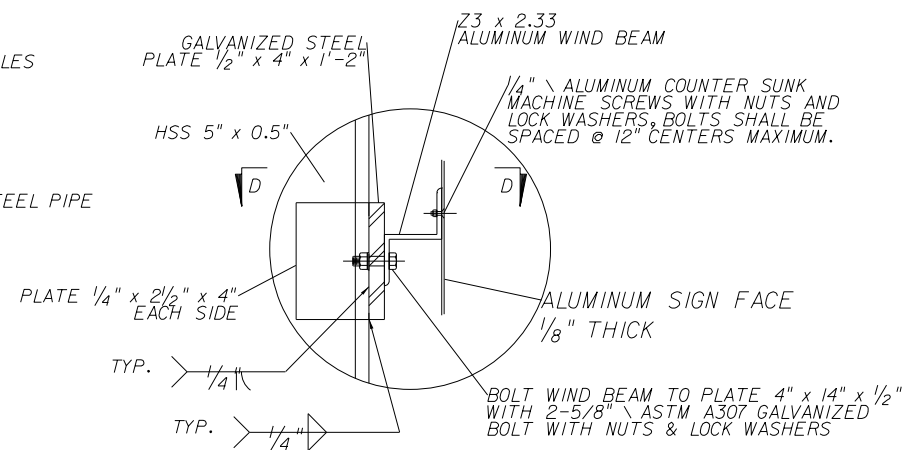
VIEW C-C



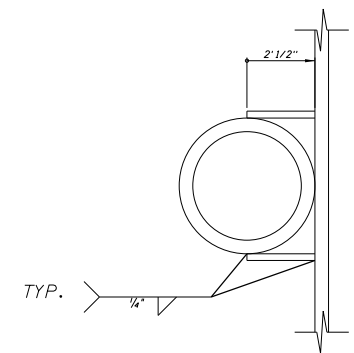
MOUNTING PLATE DETAIL A



MOUNTING PLATE DETAIL B



DETAIL "C"



SECTION D-D

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB

HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
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 FL REGISTRATION NO. 58703

**CENTRAL FLORIDA
 EXPRESSWAY AUTHORITY**

ROAD NO. SR 429	PROJECT NO. 429-202
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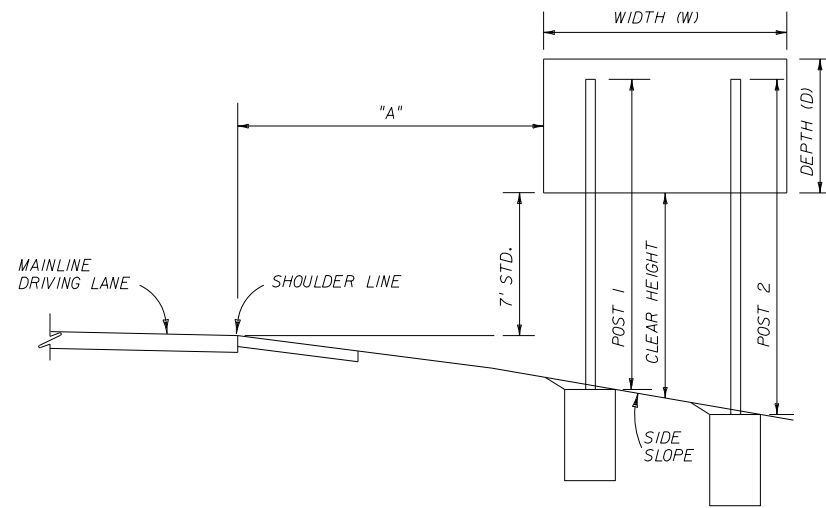
CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**BRIDGE MOUNTED SIGN
 ASSEMBLY DETAIL (SHEET 2)**

SHEET
 NO.

S-70

MULTI-POST SIGN DATA								
HORIZONTAL CLEARANCE (A) (ft)	STATION	SIGN NO.	SIGN SIZE (W x D) (ft)	SIDE SLOPE (RUN:RISE)	CLEAR HEIGHT (ft)	NO. OF POSTS	AVERAGE LENGTH OF POSTS (ft)	STEEL POSTS
36.0'	634+00	101	19'-0" X 17'-0"	0 : 0	8.79'	2	24.84'	W10X33
36.0'	104+70	108 NB	9'-0" X 2'-0"	0 : 0	7.13'	2	9.21'	W3X5.7
36.0'	106+30	108 SB	9'-0" X 2'-0"	0 : 0	8.43'	2	10.51'	W3X5.7
36.0'	170+00	113 NB	14'-0" X 9'-6"	0 : 0	13.43'	2	22.06'	W8X24
36.0'	195+20	113 SB	14'-0" X 9'-6"	4 : 1	9.04'	2	17.66'	W8X18
36.0'	178+00	114 NB	18'-0" X 10'-0"	4 : 1	8.22'	2	17.27'	W8X24
36.0'	187+20	114 SB	18'-0" X 10'-0"	4 : 1	8.23'	2	17.28'	W8X24
36.0'	205+00	116 NB	7'-6" X 2'-0"	0 : 0	9.55'	2	11.43'	W3X5.7
36.0'	207+60	116 SB	7'-6" X 2'-0"	3 : 1	12.19'	2	14.27'	W6X12
36.0'	155+00	202, 103	11'-6" X 7'-0" 8'-0" X 2'-6"	3 : 1	8.47'	2	14.96'	W8X18
16.0'	57+00	205	11'-6" X 5'-0"	0 : 0	7.18'	2	11.63'	W6X12
36.0'	845+20	601	16'-6" X 12'-6"	0 : 0	8.84'	2	20.51'	W8X24



TYPICAL SECTION FOR
 PLACEMENT OF MULTI-POST SIGNS

NOTES:

- FOR ADDITIONAL DETAILS AND NOTES SEE STANDARD INDEX NOS. 11200 AND 17302.
- AUXILIARY SIGN PANELS ARE ATTACHED IN ACCORDANCE WITH STANDARD INDEX NO. 13417. THESE AUXILIARY PANELS CAN BE CENTERED, LEFT OR RIGHT JUSTIFIED PER PLANS.
- CLEAR HEIGHT IS THE DISTANCE BETWEEN THE BOTTOM OF THE MAIN SIGN PANEL AND THE GROUND AT THE CENTER OF THE MAIN SIGN PANEL.
- AVERAGE LENGTH OF POSTS COLUMN IS APPLICABLE TO STEEL POSTS, BEAMS AND TUBES.
- SIGN ASSEMBLIES ARE DESIGNED FOR 130 MPH WINDSPEED AND SHALL CONFORM TO AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001 EDITION.

REVISIONS			
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HNTB CORPORATION
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 FL REGISTRATION NO. 58703

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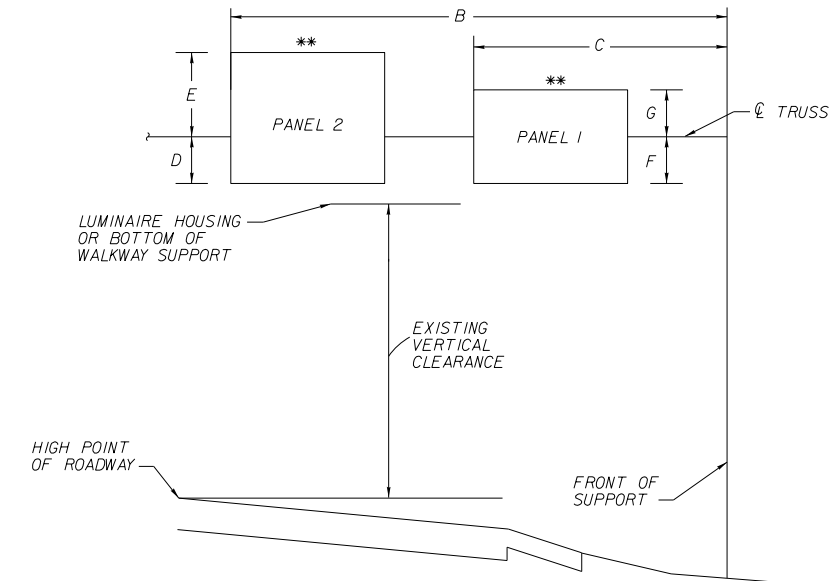
CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY

**MULTI-POST SIGN
 TABLE OF VARIABLES**

SHEET
 NO.

S-71

LOCATION DATA FOR PROPOSED PANELS ON EXISTING STRUCTURES												
STRUCTURE NUMBER	DESCRIPTION	STATION	PANEL 1		PANEL 2		PANEL LOCATION					
			NO.	DIMENSION	NO.	DIMENSION	(B)	(C)	(D)	(E)	(F)	(G)
OC-2	RELOCATE CANTILEVER FROM STA. 650+60.84 INSTALL NEW FOUNDATION	661+00	104+105	19'-6" X 16'-6"	---	---	47'-3"	---	8'-3"	8'-3"	---	---
OC-3	CANTILEVER	681+40	106	40'-6" X 16'-0"	---	---	41'-6"	---	7'-3"	8'-9"	---	---
OC-4	CANTILEVER	89+00	106	40'-6" X 16'-0"	---	---	43'-0"	---	7'-6"	8'-6"	---	---
OC-8	CANTILEVER	924+60	EXISTING	17'-6" X 11'-6"	502	16'-6" X 11'-6"	48'-9"	32'-3"	5'-9"	5'-9"	5'-9"	5'-9"
OT-1	SPAN	838+65	603	16'-0" X 11'-6"	602	16'-6" X 11'-6"	88'-9"	72'-3"	5'-9"	5'-9"	5'-9"	5'-9"
OT-2	SPAN	53+40	401+402	19'-6" X 18'-6"	403	23'-0" X 14'-6"	54'-9"	34'-3"	6'-9"	12'-3"	6'-9"	7'-9"



SCHEMATIC ELEVATION

** SEE GUIDE SIGN WORKSHEET FOR SIGNS WITH AN EXIT NUMBER PANEL. EXIT NUMBER PANELS SHALL BE INSTALLED IN COMPLIANCE WITH INDEX 13417.

NOTES:

1. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 17'-6" FOR ALL SIGN PANELS.
2. REMOVAL OF EXISTING PANELS AND ALL ASSOCIATED HARDWARE, LIGHTING, ETC. IS INCIDENTAL TO COST OF PROPOSED PANEL INSTALLATION.
3. ADJUSTMENT OF EXISTING PANEL LOCATIONS AND ALL ASSOCIATED ELEMENTS IS INCIDENTAL TO THE COST OF PROPOSED PANEL INSTALLATION.
4. PROPOSED PANEL LOCATIONS ARE BASED ON AS-BUILT DRAWINGS AND/OR SHOP DRAWINGS BELIEVED TO BE ACCURATE. CONTRACTOR SHALL VERIFY ALL NECESSARY CONDITIONS PRIOR TO PANEL INSTALLATIONS AND NOTIFY CEI OF ANY DISCREPANCIES FOR POSSIBLE RE-EVALUATION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

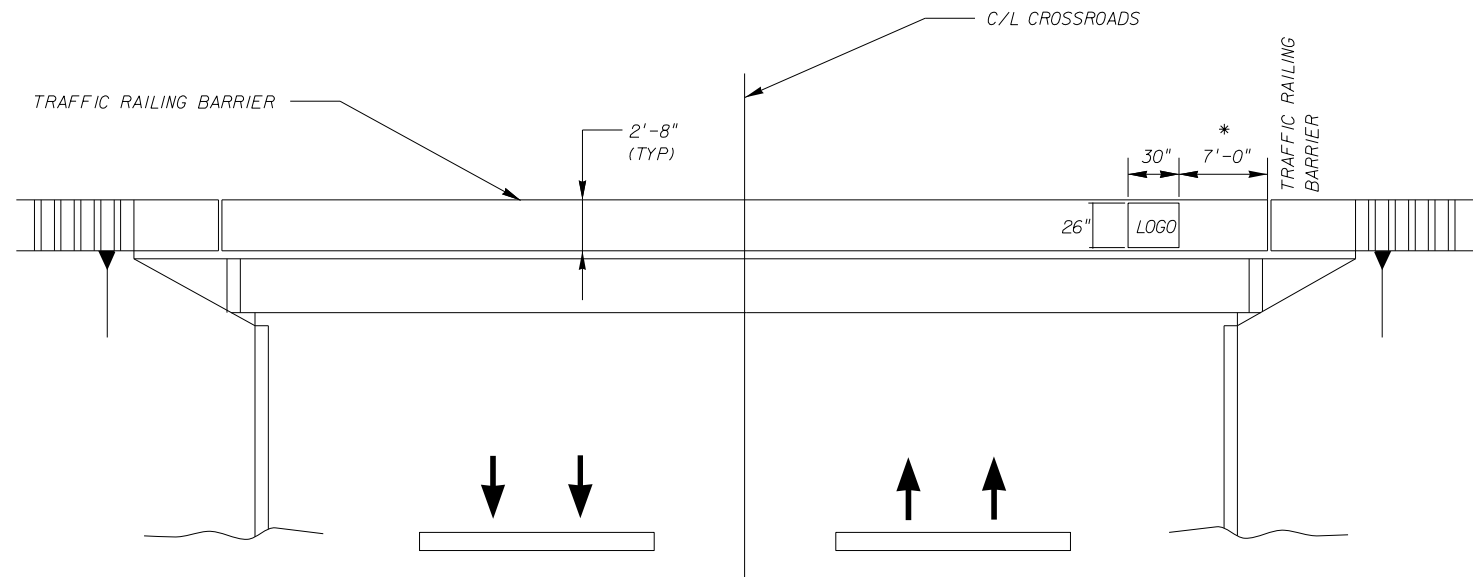
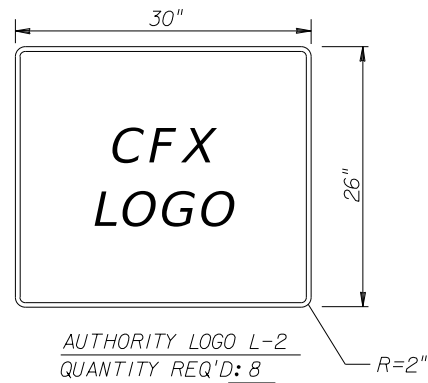
ROAD NO. PROJECT NO.
SR 429 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

PANEL LOCATIONS ON EXISTING STRUCTURES

SHEET NO.

S-72



* ADJUST DIMENSIONS AS NEEDED TO ENSURE LOGO SIGN IS NOT PLACED OVER TRAFFIC LANES AND/OR SHOULDERS.

LOGO NOTES

1. CONTRACTOR TO BE GIVEN A COMPUTER DISK OF EACH AUTHORITY LOGO FOR USE IN SIGN FABRICATION UPON REQUEST.
2. LOGOS SHALL BE 3M COMPANY DIAMOND GRADE CUBED (DG3) REFLECTIVE SHEETING OR AUTHORITY APPROVED EQUAL. CONTRACTOR SHALL COORDINATE WITH CFX FOR COLOR DETAIL.
3. LOGOS L-2 AND L-3 (DIMENSIONS IN INCHES):
CONTRACTOR SHALL COORDINATE WITH CFX FOR DIMENTION DETAILS.
4. SHOP DRAWINGS ARE REQUIRED.
5. CONTRACTOR SHALL PROVIDE 4" x 4" SAMPLES OF EACH IN EACH APPLICABLE COLOR. NO FABRICATION SHALL COMMENCE UNTIL THE SAMPLES HAVE BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM THE AUTHORITY. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
6. INSTALLATION SHALL BE PART OF A 3M MATCHED COMPONENT SYSTEM AND MEET ALL 3M SIGN FABRICATION REQUIREMENTS. CONTACT 3M COMPANY 1-800-553-1380.

CROSS ROAD *	FACING DIRECTION
BM-1 US 441	WESTBOUND
BM-2 US 441	EASTBOUND
BM-3 CONNECTOR ROAD	WESTBOUND
BM-4 CONNECTOR ROAD	EASTBOUND
BM-5 SOUTHFORK DRIVE	WESTBOUND
BM-6 SOUTHFORK DRIVE	EASTBOUND
BM-11 PONKAN ROAD	WESTBOUND
BM-12 PONKAN ROAD	EASTBOUND
TOTAL ASSEMBLIES	8

AUTHORITY LOGO (L-2)
 BRIDGE MOUNTING LOCATIONS
 (CROSSROADS)

* BM-7, 8, 9 & 10 ARE CROSS STREET SIGNS FLUSH MOUNTED ON BRIDGES AT BELGIAN STREET AND YOTHERS ROAD RESPECTIVELY. SEE PLAN SHEETS FOR SIGN LOCATIONS.

GENERAL NOTES

1. LOGO (L-2) SHALL BE USED AT ALL BRIDGE MOUNTING LOCATIONS.
2. PANEL SHALL BE MOUNTED FLUSH WITH BARRIER. CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING AND SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO PANEL INSTALLATIONS.
3. SIGN PANEL TO BE EVENLY SPACED VERTICALLY WITHIN 2'-8" (TYP.) TRAFFIC RAILING BARRIER.
4. CONTRACTOR SHALL UTILIZE TRAFFIC CONTROL REQUIREMENTS OF INDEX 611 WHILE INSTALLING SIGNS. NO TRAVEL LANES ARE PERMITTED TO BE CLOSED. ANY APPROVAL NECESSARY TO WORK IN RIGHT-OF-WAY OTHER THAN OWNED BY THE AUTHORITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. LOGO INSTALLATION TO BE PAID PER ASSEMBLY UNDER ITEM NO. 700-3-301B (OVERHEAD SIGN BRIDGE MOUNTED).

REVISIONS			
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HNTB
 HNTB CORPORATION
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 SUITE 400
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 CERT. OF AUTH. NO. 6500

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 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

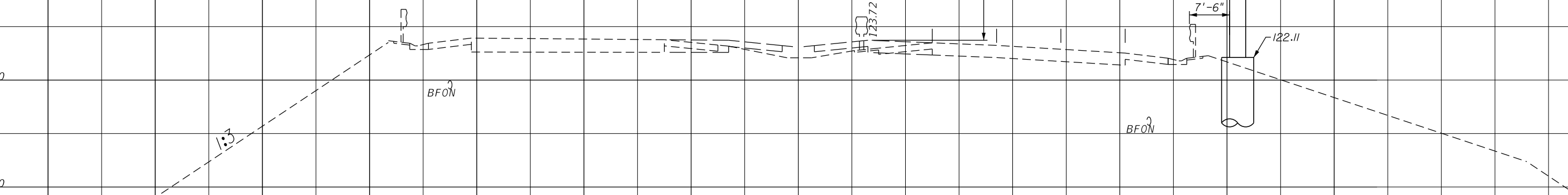
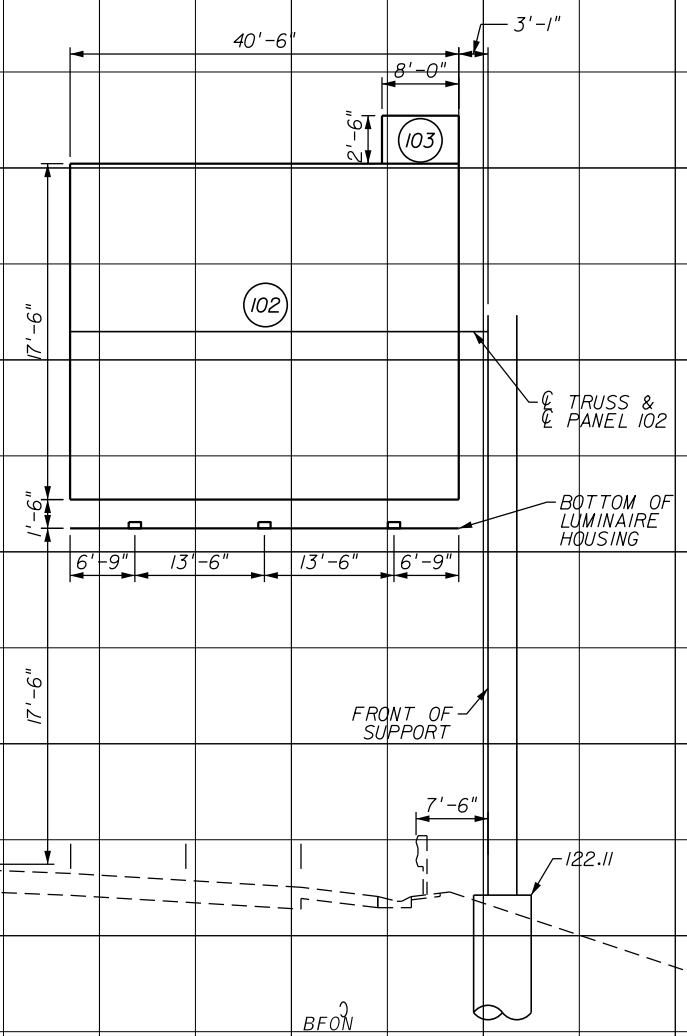
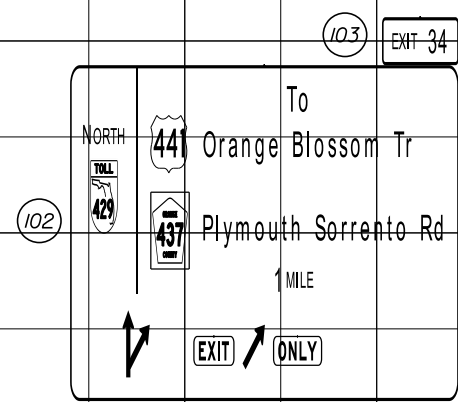
BRIDGE MOUNTED LOGO INSTALLATION AND AUTHORITY LOGO (L-2)

SHEET NO.
 S-73

Referenced:
17x11 (in.)
1:20
MODEL:
SHEET SIZE:
PLOT SCALE:

NOTES:
1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.

170
160
150
140
130
120
110
100



STRUCTURE OC-1
STA. 650+70
FACING NB DIR. OF TRAVEL
SCALE
1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

PRINT DRIVER:
PEN TABLE:

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
FL REGISTRATION NO. 58703

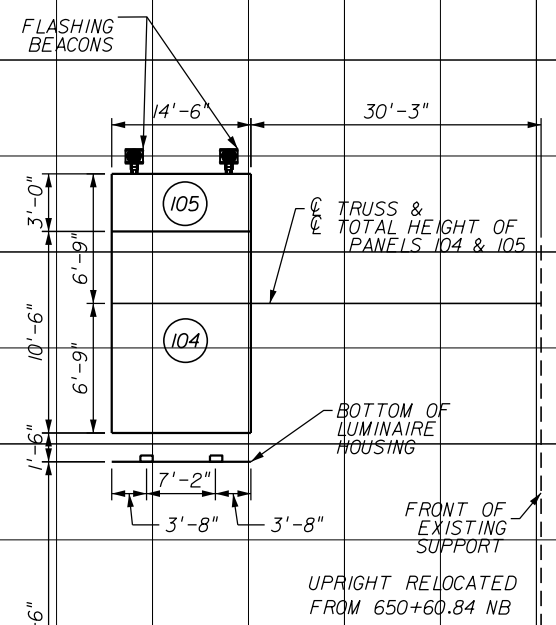
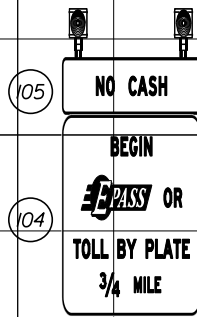
CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ROAD NO. SR 429
PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

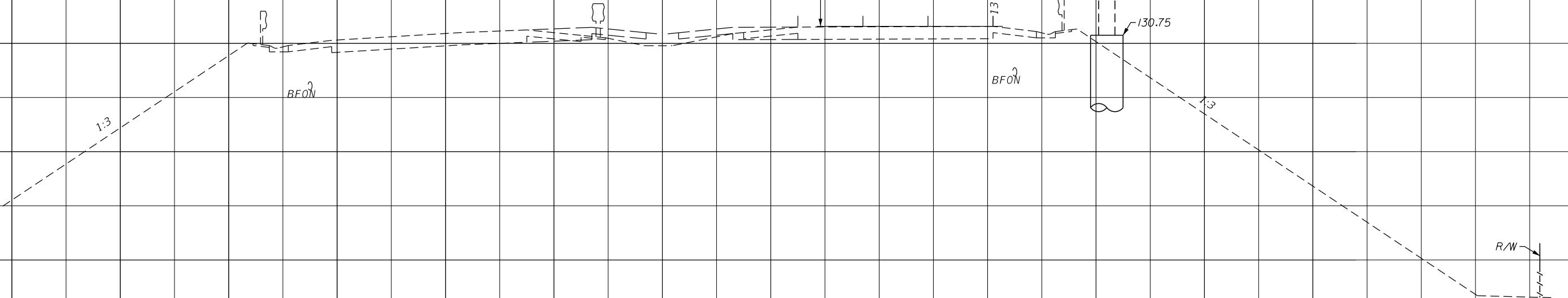
SIGN CROSS SECTION OC-1

SHEET NO. S-74

- NOTES:
 1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.
 3. REUSE UPRIGHT RELOCATED FROM STA. 650+60.84 WITH NEW HORIZONTAL TRUSS.



170
160
150
140
130
120
110
100



STRUCTURE OC-2
 STA. 661+00
 FACING NB DIR. OF TRAVEL
 SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

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 ROAD NO. SR 429
 PROJECT NO. 429-202

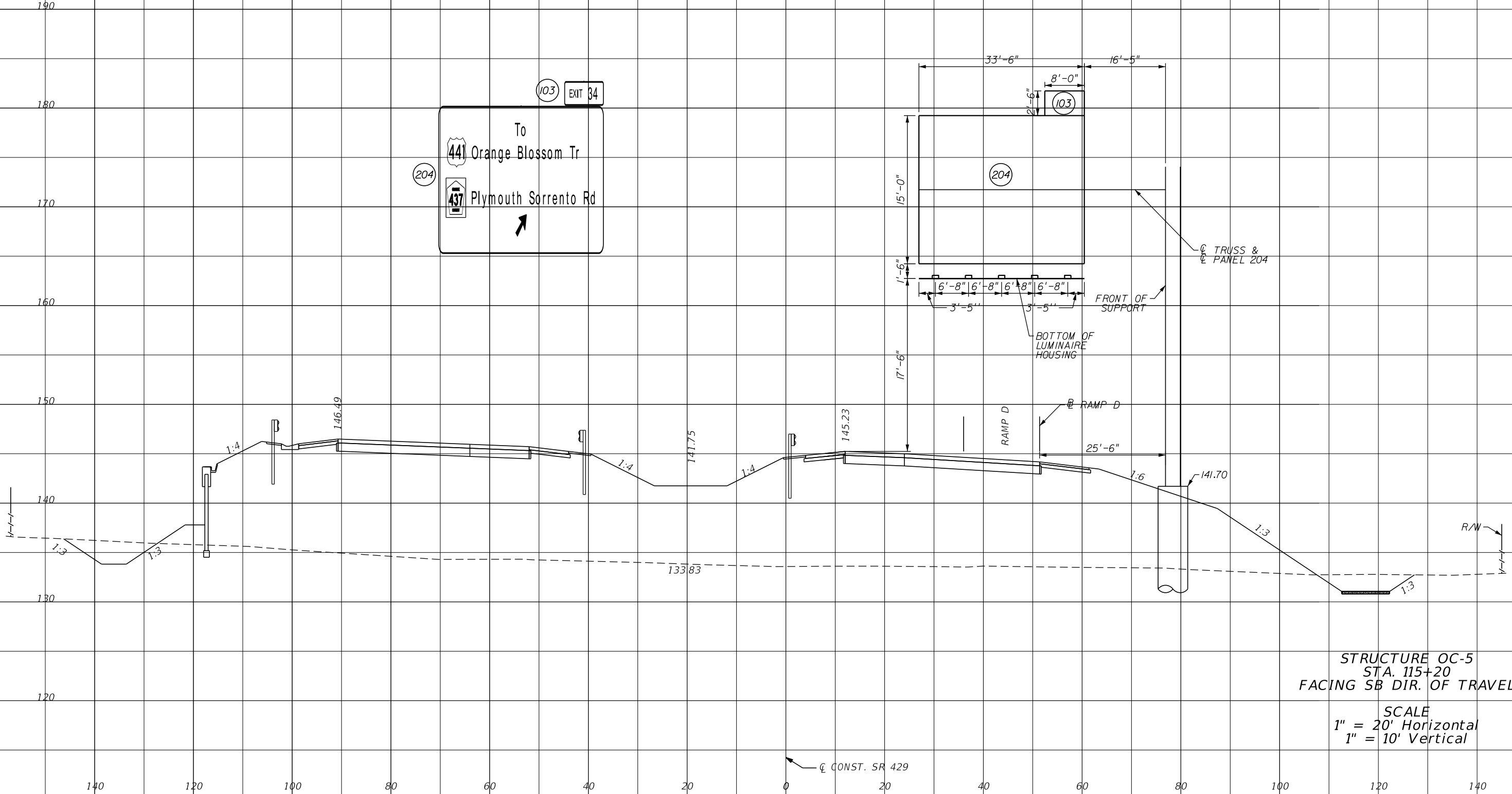
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OC-2

SHEET NO. S-75

Referenced: 17411 (in.) 1:20
 MODEL: SHEET SIZE: PLOT SCALE:

NOTES:
 1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.



STRUCTURE OC-5
 STA. 115+20
 FACING SB DIR. OF TRAVEL
 SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

PRINT DRIVER: PEN TABLE: FOOTPRINT: FOOT: IN:

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

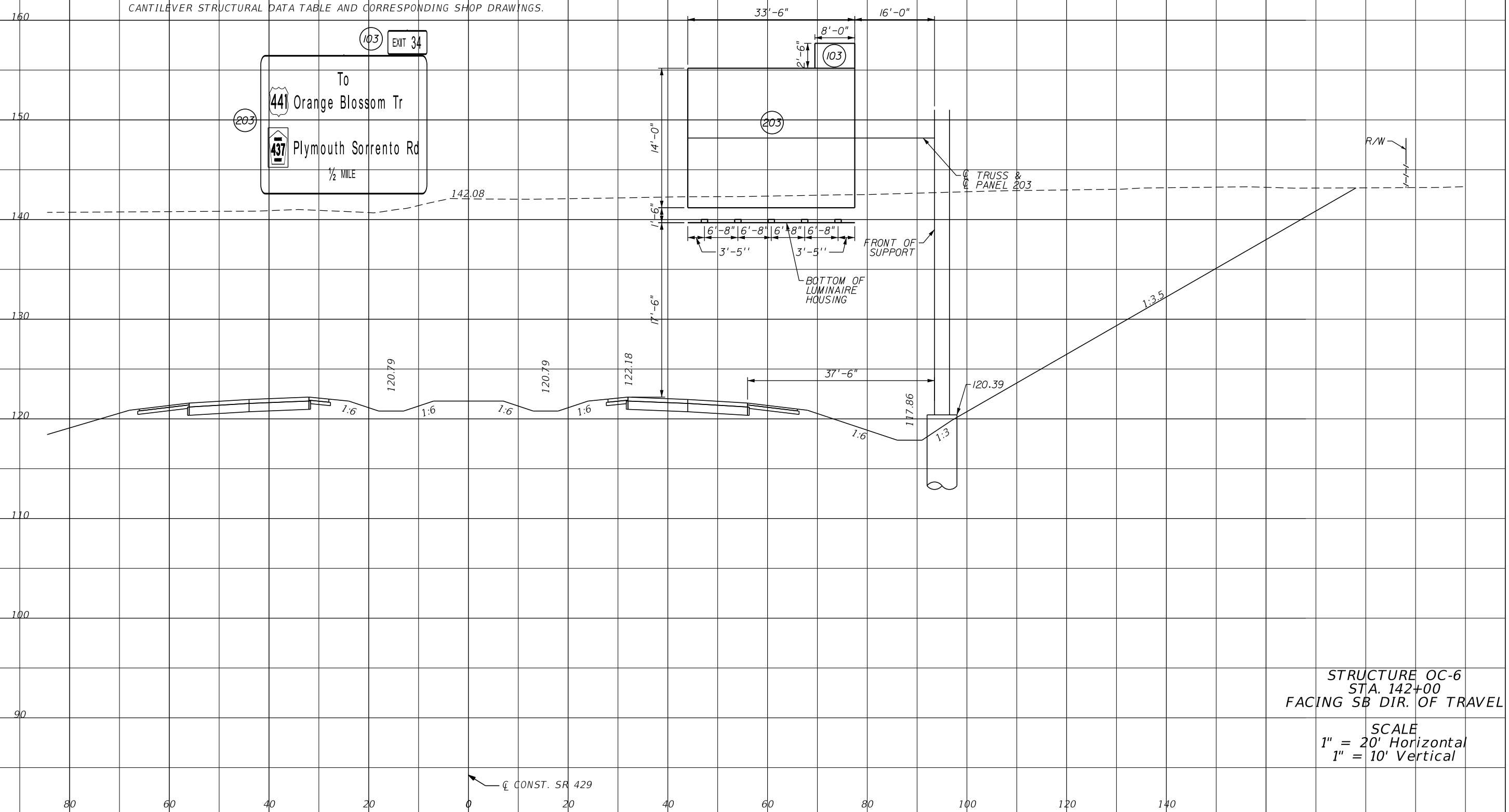
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OC-5

SHEET NO. S-76

Referenced:
17x11 (in.)
1:20
MODEL:
SHEET SIZE:
PLOT SCALE:

NOTES:
1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.



STRUCTURE OC-6
STA. 142+00
FACING SB DIR. OF TRAVEL

SCALE
1" = 20' Horizontal
1" = 10' Vertical

PRINT DRIVER:
PEN TABLE:
FOOTPRINT: pfcg
FOOT: fbi

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
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CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ROAD NO. SR 429
PROJECT NO. 429-202

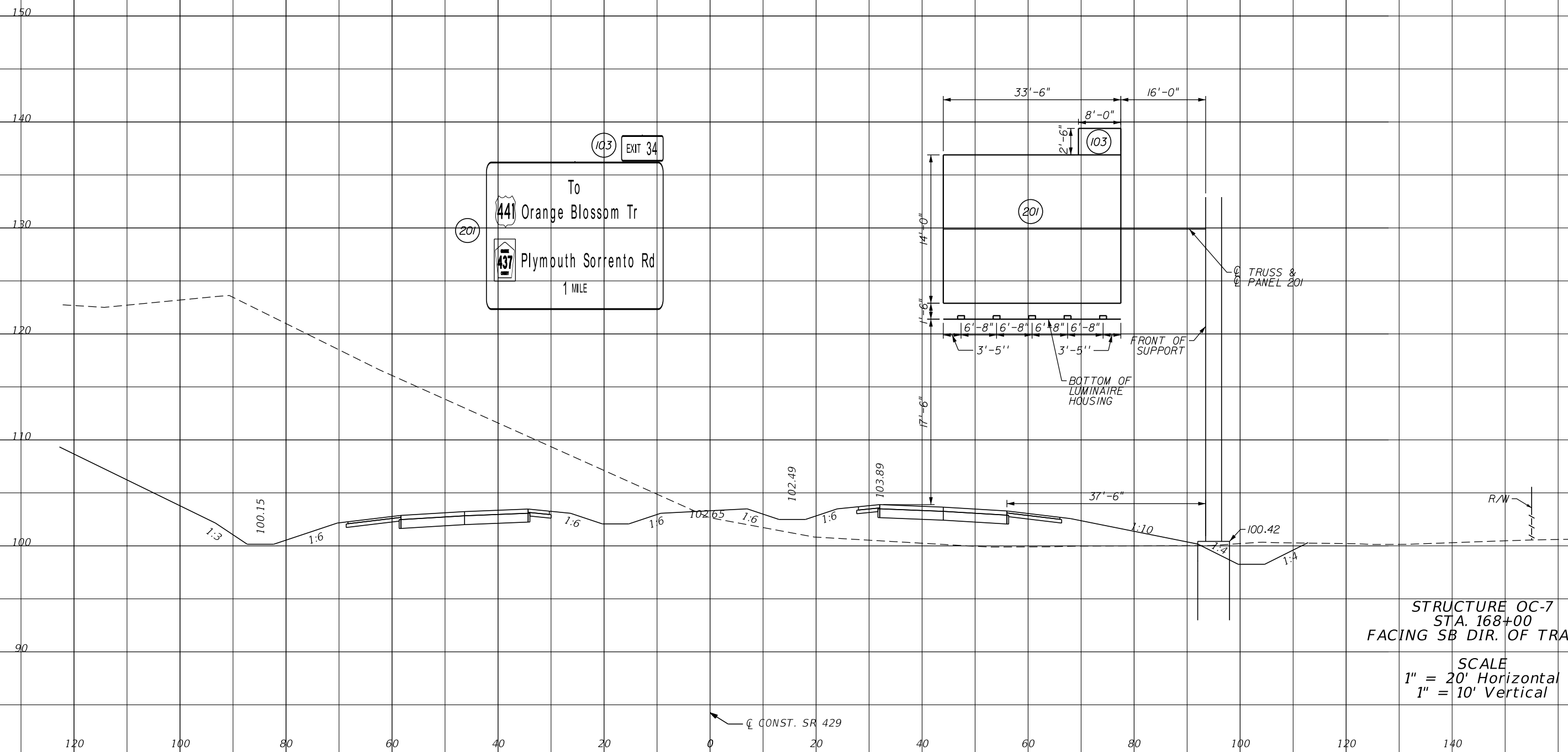
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OC-6

SHEET NO. S-77

Referenced: 17x11 (in.)
 MODEL: SHEET SIZE: PLOT SCALE:

NOTES:
 1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.



STRUCTURE OC-7
 STA. 168+00
 FACING SB DIR. OF TRAVEL
 SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

PRINT DRIVER: FDOTPDF.plt
 PEN TABLE: FDOT.tbl

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

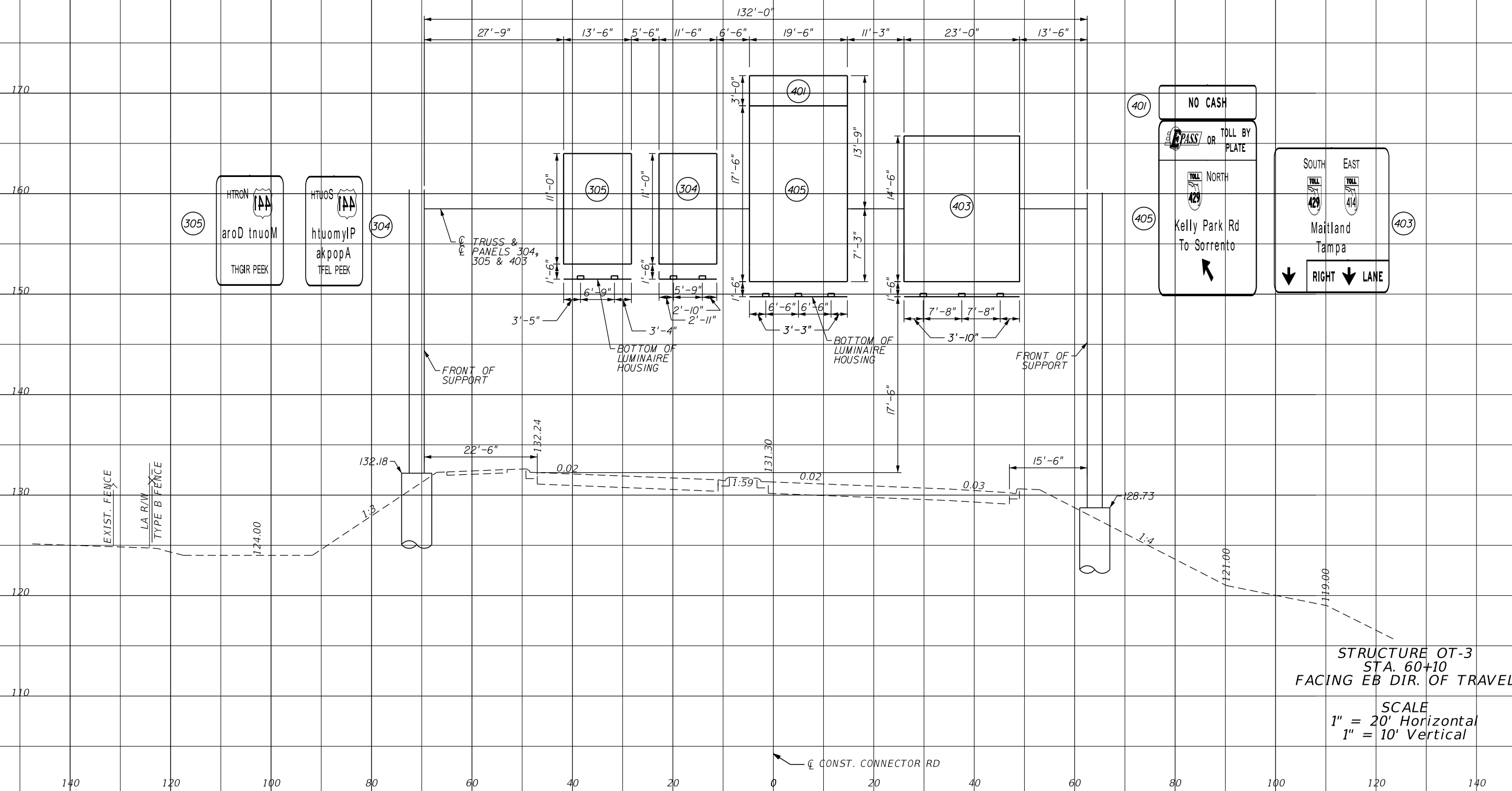
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OC-7

SHEET NO.

S-78

NOTES:
 1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.



STRUCTURE OT-3
 STA. 60+10
 FACING EB DIR. OF TRAVEL
 SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

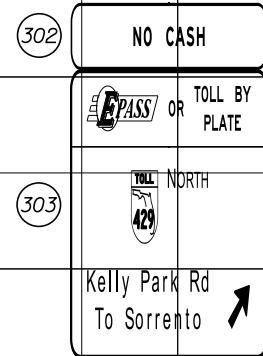
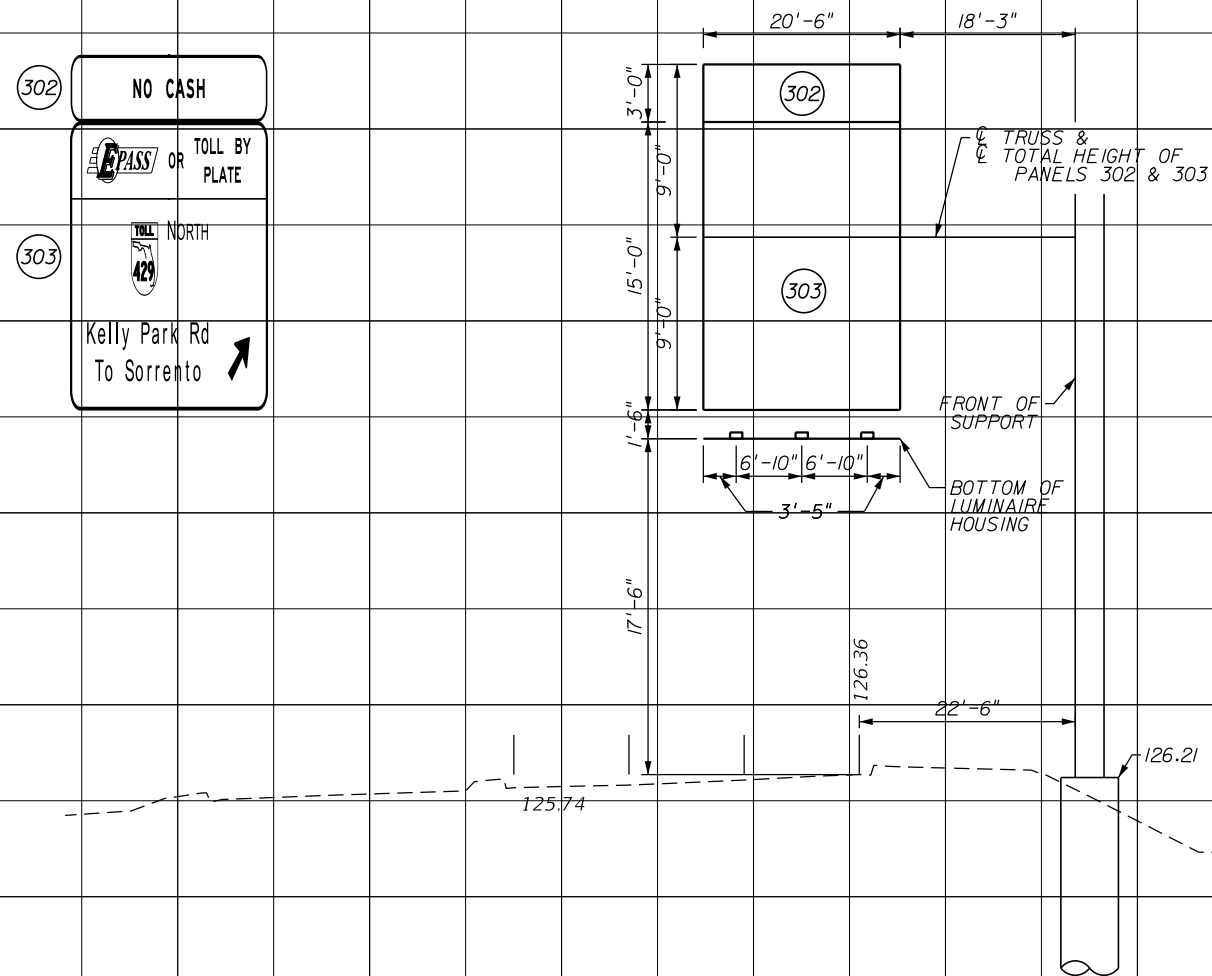
CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OT-3

SHEET NO. S-79

NOTES:
 1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.



STRUCTURE OC-10
 STA. 67+20
 FACING WB DIR. OF TRAVEL

SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
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 (407) 805-0355
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 FL REGISTRATION NO. 58703

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ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL
 FLORIDA
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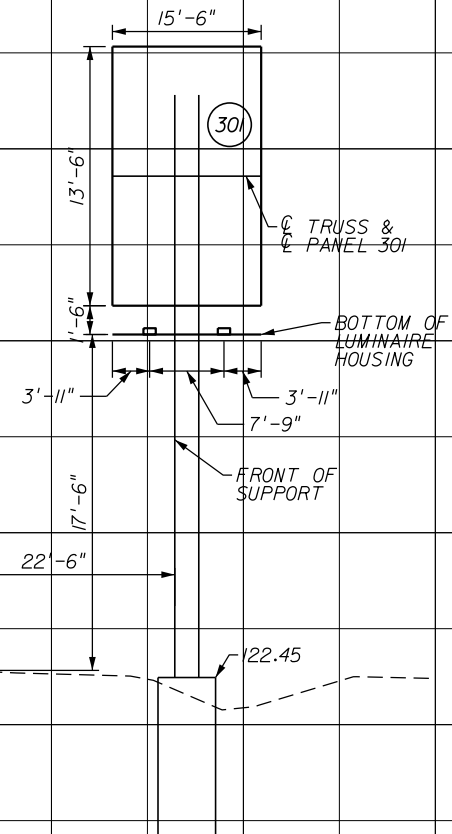
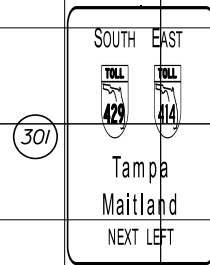
**SIGN CROSS SECTION
 OC-10**

SHEET
 NO.

S-80

Referenced:
17x11 (in.)
1:20
MODEL:
SHEET SIZE:
PLOT SCALE:

NOTES:
1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
2. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.



STRUCTURE TT-1
STA. 69+90
FACING WB DIR. OF TRAVEL

SCALE
1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
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ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.
FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ROAD NO. SR 429
PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

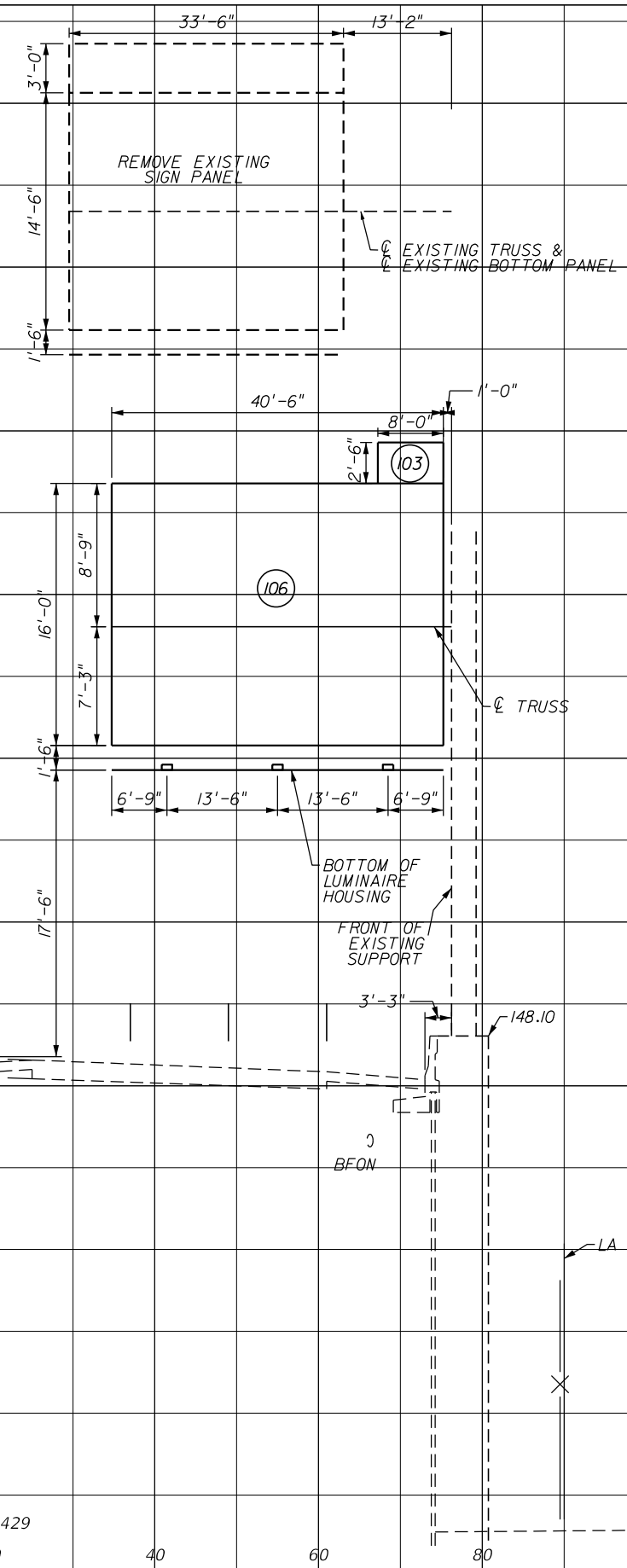
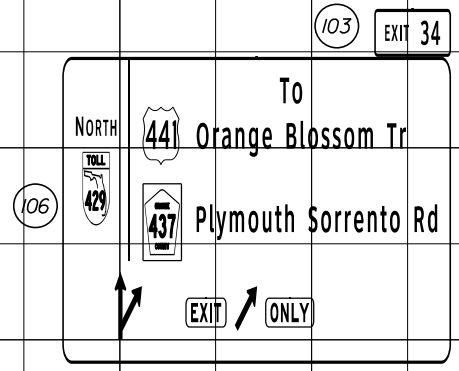
SIGN CROSS SECTION TT-1

SHEET NO. S-81

PRINT DRIVER: FOOTPRINT.dwg
PEN TABLE: FOOT.tbl

Model: \$\$\$\$
 SHEET SIZE: \$\$\$\$
 PLOT SCALE: \$\$\$\$

NOTES:
 1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. EXISTING UPRIGHT TO REMAIN WITH NEW HORIZONTAL TRUSS.
 3. PRIOR TO INSTALLING THE HORIZONTAL TRUSS ON THE EXISTING UPRIGHT CONTRACTOR AND CEI SHALL CONFIRM THAT THE ATTACHMENT POINTS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN IN THE STRUCTURAL DESIGN SHEETS PROVIDED IN THIS PLAN SET.



170

160

150

140

130

120

STRUCTURE OC-3
 STA. 681+40
 FACING NB DIR. OF TRAVEL
 SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

PRINT DRIVER: \$\$\$\$
 PEN TABLE: \$\$\$\$

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
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 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

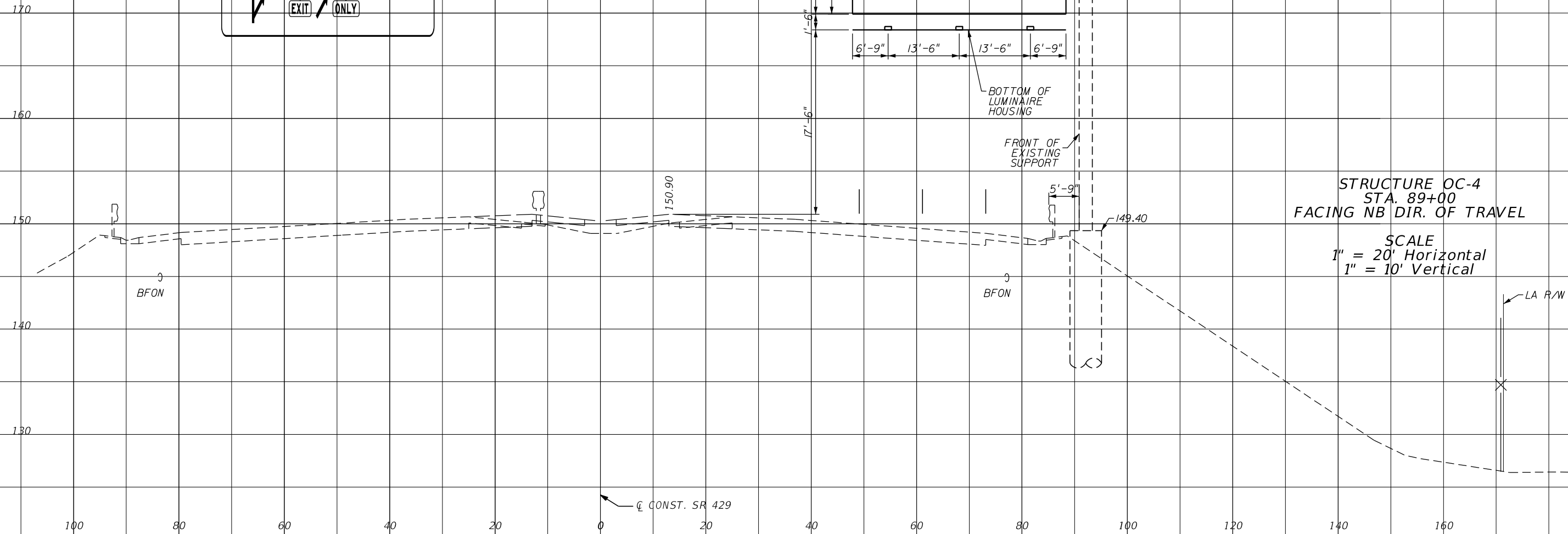
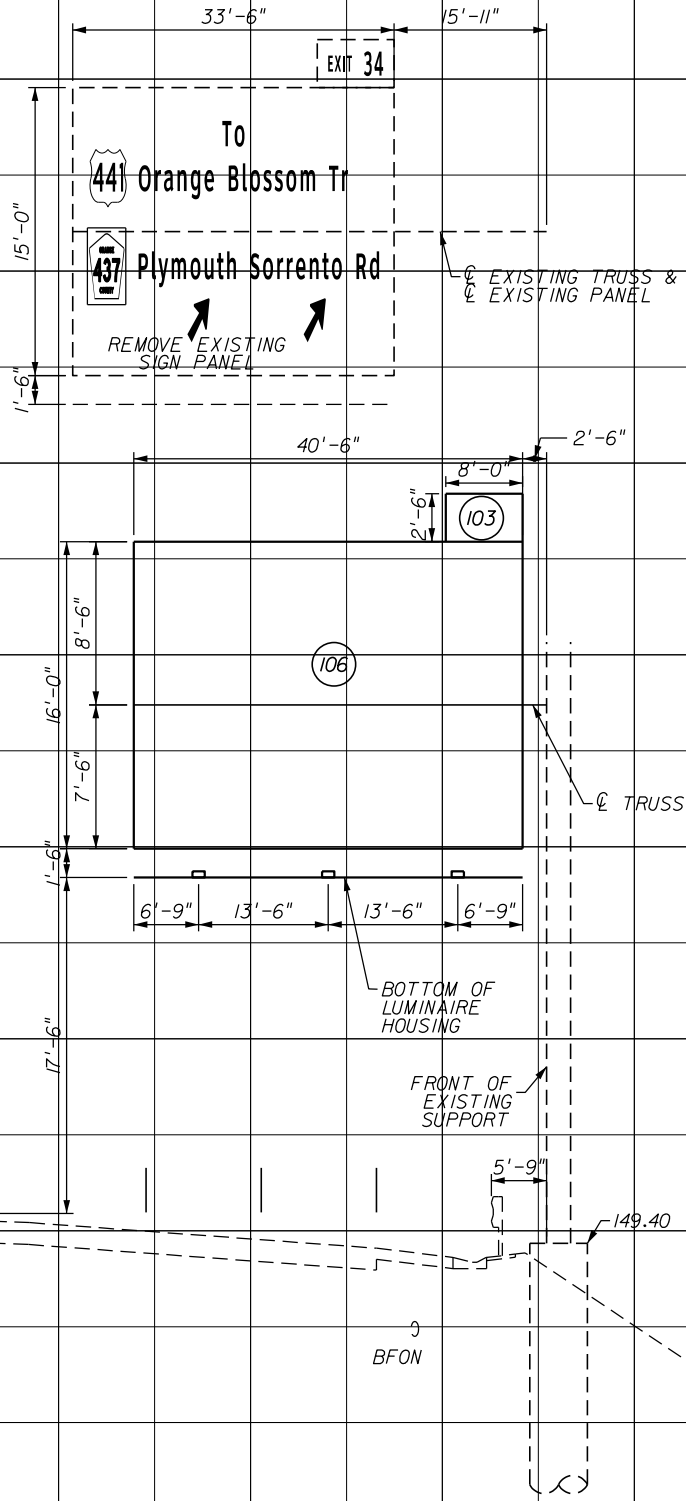
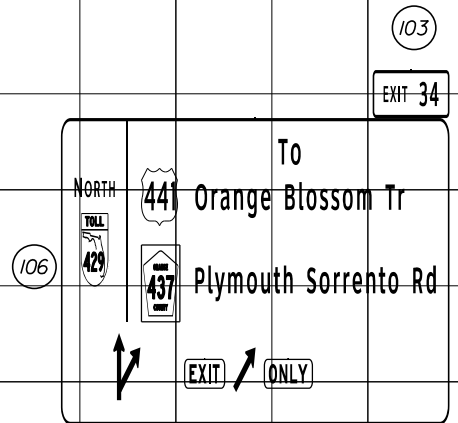
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OC-3

SHEET NO. S-82

Model: Referenced: \$SHEET\$ SIZES \$SCALE\$ SHORTS
 SHEET SIZE: \$SHEET\$ SIZES \$SCALE\$ SHORTS
 PLOT SCALE: \$SCALE\$ SHORTS
 SPLIT DRVS: \$SPLIT\$ DRVS \$SCALE\$ SHORTS
 PEN TABLE: \$PEN\$ TABLE \$SCALE\$ SHORTS

NOTES:
 1. SIGN STRUCTURE DESIGN IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. EXISTING UPRIGHT TO REMAIN WITH NEW HORIZONTAL TRUSS.
 3. PRIOR TO INSTALLING THE HORIZONTAL TRUSS ON THE EXISTING UPRIGHT CONTRACTOR AND CEI SHALL CONFIRM THAT THE ATTACHMENT POINTS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN IN THE STRUCTURAL DESIGN SHEETS PROVIDED IN THIS PLAN SET.



REVISIONS			
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 SUITE 400
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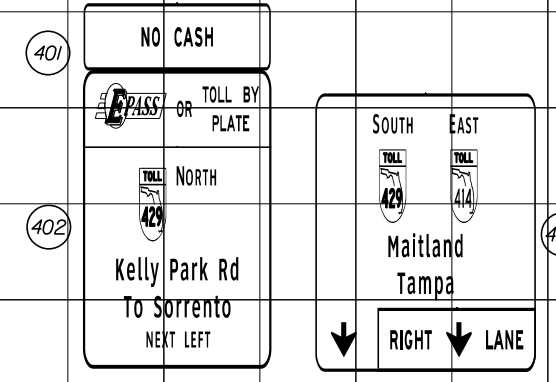
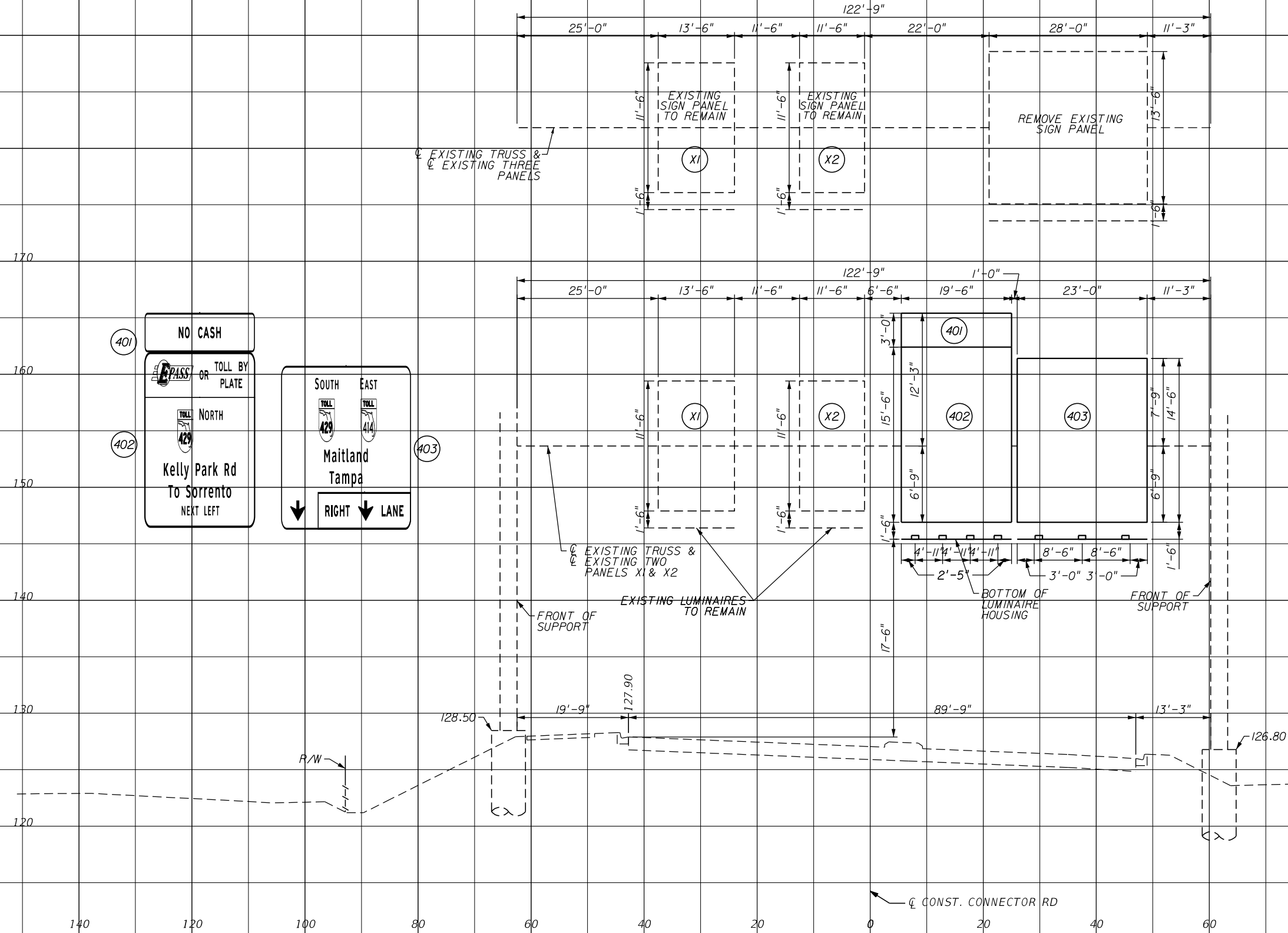
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OC-4

SHEET NO. S-83

Model: Refered_sng
 SHEET SIZES: \$\$\$
 PLOT SCALES: \$\$\$

NOTES:
 1. SIGN STRUCTURE ANALYSIS IS BASED ON PARTS A) THROUGH E) OF GENERAL NOTE 18.
 2. EXISTING UPRIGHT TO REMAIN WITH NEW HORIZONTAL TRUSS.



STRUCTURE OT-2
 STA. 53+40
 FACING EB DIR. OF TRAVEL
 SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

PRINT DRIVER: \$PLTDRVSS\$
 PEN TABLE: \$PEN\$

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E.
 FL REGISTRATION NO. 58703

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN CROSS SECTION OT-2

SHEET NO. S-84

SIGN LUMINAIRE DATA

STRUCTURE NO.	SIGN NO.	CIRCUIT	STATION	NO. OF FIXTURES	ELECTRONIC DRIVER (NO. OF LEDS)	ARM LENGTH	PAY ITEM
				BOTTOM			
OC-1	102 & 103	-	650+70 Q CONST. SR 429	3	1050 MA (3 LEDS)	6'	SEE NOTE
OC-2	104 & 105	-	661+00 Q CONST. SR 429	2	350 MA (3 LEDS)	4'	SEE NOTE
OC-3	103 & 106	-	681+40 Q CONST. SR 429	3	1050 MA (3 LEDS)	6'	SEE NOTE
OC-4	103 & 106	-	89+00 Q CONST. SR 429	3	1050 MA (3 LEDS)	6'	SEE NOTE
OC-5	103 & 204	A-1	115+20 Q CONST. SR 429	5	350 MA (3 LEDS)	5'	SEE NOTE
OC-6	103 & 203	A-3	142+00.00 Q CONST. SR 429	5	350 MA (3 LEDS)	5'	SEE NOTE
OC-7	103 & 201	A-3	168+00.00 Q CONST. SR 429	5	350 MA (3 LEDS)	5'	SEE NOTE
OC-8	502	-	924+60 Q CONST NB US 441	2	1050 MA (3 LEDS)	6'	SEE NOTE
OC-10	302 & 303	A-2	67+20 Q CONST. CONNECTOR RD	3	700 MA (3 LEDS)	5'	SEE NOTE
OT-2	401 & 402	-	53+40 Q CONST. CONNECTOR RD	4	350 MA (3 LEDS)	6'	SEE NOTE
OT-2	403	-	53+40 Q CONST. CONNECTOR RD	3	350 MA (3 LEDS)	5'	SEE NOTE
OT-3	401 & 405	-	60+10 Q CONST. CONNECTOR RD	3	530 MA (3 LEDS)	6'	SEE NOTE
OT-3	403	-	60+10 Q CONST. CONNECTOR RD	3	350 MA (3 LEDS)	4.5'	SEE NOTE
OT-3	304	-	60+10 Q CONST. CONNECTOR RD	2	350 MA (3 LEDS)	5'	SEE NOTE
OT-3	305	-	60+10 Q CONST. CONNECTOR RD	2	350 MA (3 LEDS)	4'	SEE NOTE
TT-1	301	-	69+90 Q CONST. CONNECTOR RD	2	700 MA (2 LEDS)	5'	SEE NOTE

NOTE: SIGN LUMINAIRES ARE PAID FOR UNDER THE SIGNING AND PAVEMENT MARKING PLANS.

350 MA

LIGHTING TYPE:
HOLOPHANE SIGN-VUE LED
CATALOG #: SVLED 3 5K 3 XXXX
TEST #: 501545 PHOTOMETRIC
OR APPROVED EQUAL

530 MA

LIGHTING TYPE:
HOLOPHANE SIGN-VUE LED
CATALOG #: SVLED 3 5K 5 XXXX
TEST #: 107045 PHOTOMETRIC
OR APPROVED EQUAL

700 MA

LIGHTING TYPE:
HOLOPHANE SIGN-VUE LED
CATALOG #: SVLED 2 5K 7 XXXX
TEST #: 501549 PHOTOMETRIC
OR APPROVED EQUAL

1050 MA

LIGHTING TYPE:
HOLOPHANE SIGN-VUE LED
CATALOG #: SVLED 3 5K 1 XX HSV
TEST #: 501531 PHOTOMETRIC
OR APPROVED EQUAL

SIGN DESIGN LIGHTING CRITERIA

AVERAGE INITIAL INTENSITY 20 (MIN.) TO 30 (MAX.) FDOT CANDLES
UNIFORMITY RATIO MAX/MIN. 6:1 OR LESS
WIND SPEED 130 MPH (ORANGE COUNTY)

REVISIONS				Traffic Engineering Data Solutions, Inc. <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small>	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	SIGN LUMINAIRE DATA	SHEET NO. S-85
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

CANTILEVER SIGN STRUCTURES DATA TABLE

Table Date 01-01-11

SIGN NO.	STATION / OFFSET	DIMENSIONS			PANELS	MEMBER SIZES			BACKRAKE	
		A	B		C	N	D (CHORD)	E (WEB)	F (UPRIGHT)	G
		ft	ft	in	in	#	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	in
DC-1	650+70 / 81.5'Rt	29.5	11	4 3/4	102	4	8.63 x .500	5x5x3/4	48 x 0.75	1.1946
DC-2 ***	661+100 / 81.5'Rt	26.75	11	6 3/4"	96	4	5.56 x .375	4x4x3/8	—	0.8097
DC-3 ***	681+40 / 80'Rt	24.93	10	9	96	4	6.63 x .432	5x5x1/2	—	1.2564
DC-4 ***	699+82 / 89'Rt	28	8	10 1/4	90	5	6.63 x .432	5x5x1/2	—	2.396
DC-5	115+20 / 96'Rt	30.25	10	3 1/2	96	5	8.63 x .500	5x5x1/2	36 x 0.875	2.411
DC-6	142+100 / 92'Rt	28.0	10	2 1/2	96	5	6.63 x .432	5x5x1/2	36 x 0.75	2.0581
DC-7	168+00 / 94" Lt	30.32	10	2 1/2	96	5	8.63 x .500	5x5x1/2	36 x 0.75	2.7585
DC-8 ***	924+60 / 54'Rt	—	—	—	—	—	—	—	—	—
DC-10	67+20 / 55.7' Lt	28.5	10	—	90	4	5.56 x .375	4x4x1/2	30 x 0.75	1.8259

NOTES:

1. Work these Data Tables with Index 11310.
2. Design Wind Speed = 130 mph.
3. Analysis of Existing Sign Structure (DC-2, DC-3, DC-4 & DC-8) has been based on existing shop drawings. In addition, the tables of the Sign Structures variables from existing record drawings has also been used in the analysis, including all information pertaining to the structure. Contractor shall verify that minimum vertical clearance is met when placing proposed sign panels and lighting. The Contractor shall not alter the panel location shown on the contract plans to satisfy minimum vertical clearance without approval from the Engineer of Record.

CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)

Table Date 01-01-11

SIGN NO.	GUSSET PLATES											TRUSS CONNECTION								SPLICE										
	GA	GB	GC		GD		GE		GF		GG	GH		GJ		GK	TA	TB	TC	TD	TE	TF	TG	TH	TJ	SA	SB	SC	SD	
	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in	#	#	in	in	in	in	in	in	Angle (in)	#	in	#	
DC-1	3/4	1 1/2	2	11 1/4		1 1/4	2			11	3	8 3/4	1	1 1/4	2	2 1/4	1/4	7/8	14	12	3/4	1/2	5/16	1/4	1/4	5/16	8x8x1/2	6	1	2
DC-2 ***	3/8	7/8	1	5 1/2		7	1	4 3/4		6 1/2	1	3/4		9 1/4		10 3/4	3/16	7/8	6	6	5/8	5/8	1/4	5/16	3/16	1/4	5x5x1/2	6	7/8	2
DC-3 ***	1/2	1 1/4	1	10		9 3/4	1	9		9 1/4	2	9 1/4	1	3/4	1	6	3/16	7/8	12	10	3/4	7/8	3/8	5/16	1/4	5/16	6x6x1/2	6	1	2
DC-4 ***	1/2	7/8	1	4 3/4		7 1/4	1	4 1/2		6 1/2	1	3 1/2		10 3/4	1	1 1/4	3/16	7/8	8	8	3/4	5/8	5/16	5/16	3/16	5/16	6x6x1/2	4	1	3
DC-5	1/2	1 1/4	1	10 3/4		9 3/4	1	9 3/4		9 1/4	2	9 1/2	1	7 3/4		3/16	7/8	14	12	7/8	5/8	1/16	5/16	1/4	5/16	8x8x1/2	8	1	2	
DC-6	1/2	1 1/4	1	9 1/4		9 3/4	1	8 1/2		9 1/4	2	5	1	1	1	7 3/4	3/16	7/8	12	10	3/4	5/8	3/8	1/4	1/4	5/16	6x6x1/2	8	1	2
DC-7	1/2	1 1/4	1	10 1/2		9 3/4	1	9 3/4		9 1/4	2	5 3/4	1		1	6	3/16	7/8	12	10	3/4	5/8	3/8	1/4	3/16	5/16	8x8x1/2	8	1	2
DC-8 ***	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DC-10	1/2	1	1	5 3/4		8	1	5		7 1/2	1	11 3/4		10 1/4	1	3 3/4	3/16	7/8	8	6	3/4	5/8	3/8	1/4	3/16	5/16	—	—	—	—

CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)

Table Date 01-01-11

SIGN NO.	BASE CONNECTION										ANCHOR		FOOTING - DRILLED SHAFT (see * & **)						
	BA	BB	BC	BD	BE		BF	BG	BH	BJ	BK		FA		FB		FC	FD	FE
	in	#	in	in	ft	in	in	in	in	in	ft	in	ft	in	ft	in	# / Size	#	in
DC-1	2 1/2	16	1 3/4	1/2	2	10 1/2	5/16	5/16	3/8	3/16	6	1	34				18/11	90	4
DC-2 ***	—	—	—	—	—	—	—	—	—	—	3	9	21				14/11	30	6
DC-3 ***	—	—	—	—	—	—	—	—	—	—	—	—	—				—	—	—
DC-4 ***	—	—	—	—	—	—	—	—	—	—	—	—	—				—	—	—
DC-5	2 1/2	16	1 3/4	1/2	2	10 1/2	5/16	5/16	5/16	3/16	6	7	31				14/11	80	4
DC-6	2 1/2	14	1 1/2	1/2	2	10 1/2	5/16	5/16	3/8	3/16	5	10	27				14/11	70	4
DC-7	2 1/2	14	1 3/4	1/2	2	10 1/2	5/16	5/16	5/16	3/16	6	6	52				14/11	140	4
DC-8 ***	—	—	—	—	—	—	—	—	—	—	—	—	—				—	—	—
DC-10	2 1/2	12	1 1/2	1/2	2	10 1/2	5/16	5/16	5/16	3/16	4	2	25				14/11	66	4

FOUNDATION NOTES:

1. Design based on Borings taken and sealed by NADIC ENGINEERING SERVICES, INC., Godwin Nnadi, PE #50637.
 2. For Assumptions and Values used in design See Sheet S-94.
 3. DC-1 drilled shaft shall satisfy mass concrete requirements.
- * DC-5 used #6 Stirrups. see Sheet S-94.
- ** Drilled Shafts for DC-1, 2, 5, 6, & 7 used bundled # 11 bars. see Sheet S-94.
- *** The Design and Analysis for Existing Sign Structures DC-2, DC-3, DC-4 & DC-8 is in accordance with FDOT Plans Preparation Manual, Article 25.4.26.2, Structure Manual Volume 3, and Appendix C of AASHTO Design Specifications.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: CHRISTOPHER J. MILLS, P.E
 LIC. NO. 56801

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

CANTILEVER SIGN STRUCTURES DATA TABLE

SHEET NO. S-86

SPAN SIGN STRUCTURES DATA TABLE

Table Date 01-01-11

SIGN#	STATION	DIMENSIONS					PNLS	MEMBER SIZES					SPLICE											
		A	B	C	D	E		F (CHORD)	G (WEB)	H (LEFT UPRIGHT)	J (RIGHT UPRIGHT)	K (CAMBER)	SA	SB	SC									
		ft	ft	ft	#	in		O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	O. D. x Wall Thk. (in)	in	Angle (in)	#	in									
DT-1 *	838+65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
DT-2 *	53+40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-3	60+10	135	26.75	30.0	12	120	8.63 x .625	5x5x3/4	36 x .500	36 x .625	2 1/2	8x8x1/2	12	1										

SPAN SIGN STRUCTURES DATA TABLE (CONT.)

Table Date 01-01-11

SIGN#	ALTERNATE SPLICE						GUSSET PLATES																			
	PA	PB	PC	PD	PE	PF	GA	GB	GC		GD		GE		GF		GG		GH		GJ		GK		GL	
	in	in	in	in	in	#	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in	
DT-1 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-2 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-3	—	—	—	—	—	—	3/4	1 1/4	1	8 1/2		9 3/4	1	8		9 1/4	2	3 1/2	1	4 1/4	1	1/4	1	1 1/2	1/4	

SPAN SIGN STRUCTURES DATA TABLE (CONT.)

Table Date 01-01-11

SIGN#	LEFT UPRIGHT CONNECTION								RIGHT UPRIGHT CONNECTION							
	LA	LB	LC	LD	LE	LF	LG	LH	RA	RB	RC	RD	RE	RF	RG	RH
	in	#	in	in	in	in	in	in	in	#	in	in	in	in	in	in
DT-1 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-2 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-3	7/8	6	5/8	5/8	1/4	3/16	3/16	1/4	7/8	6	5/8	5/8	1/4	1/4	3/16	1/4

FOUNDATION NOTES:

- Design based on Borings taken and sealed by NADIC ENGINEERING SERVICES, INC., Godwin Nnadi, PE #50637.
- For Assumptions and Values used in design See Sheet S-94.

SPAN SIGN STRUCTURES DATA TABLE (CONT.)

Table Date 01-01-11

SIGN#	LEFT BASE CONNECTION										RIGHT BASE CONNECTION									
	BA	BB	BC	BD	BE		BF	BG	BH	BJ	CA	CB	CC	CD	CE		CF	CG	CH	CJ
	in	#	in	in	ft	in	in	in	in	in	in	#	in	in	ft	in	in	in	in	in
DT-1 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-2 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-3	2 1/4	12	1 3/4	5/8	2	5 3/4	5/16	5/16	3/8	3/16	2 1/4	16	1 3/4	5/8	2	5 3/4	5/16	5/16	3/8	3/16

SPAN SIGN STRUCTURES DATA TABLE (CONT.)

Table Date 01-01-11

SIGN#	LEFT DRILLED SHAFT						RIGHT DRILLED SHAFT							
	DA		DB		DC	DD	DE	FA		FB		FC	FD	FE
	ft	in	ft	in	# / size	#	in	ft	in	ft	in	# / size	in	in
DT-1 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-2 *	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DT-3	28	6	5		19/#11	12	12	28	6	5		19/#11	12	12

NOTES:

- Work these Data Tables with Index 11320.
- Design Wind Speed = 130 mph
- Erection is the Contractor's responsibility. To facilitate erection, the Contractor should consider using two vertical lift points, each located near a panel point approximately 20 to 25% of the truss length from each end.
- 'DC' and 'FC' shall include quantity and size of reinforcing steel.
- Analysis of Existing Sign Structure (DT-1 & DT-2) has been based on existing shop drawings. In addition, the tables of the Sign Structures variables from existing record drawings has also been used in the analysis, including all information pertaining to the structure. Contractor shall verify that minimum vertical clearance is met when placing proposed sign panels and lighting. The Contractor shall not alter the panel location shown on the contract plans to satisfy minimum vertical clearance without approval from the Engineer of Record.

* The Design and Analysis for Existing Sign Structures DT-1 & DT-2 is in accordance with FDDT Plans Preparation Manual, Article 25.4.26.2, Structure Manual Volume 3 and Appendix C of AASHTO Design Specifications.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

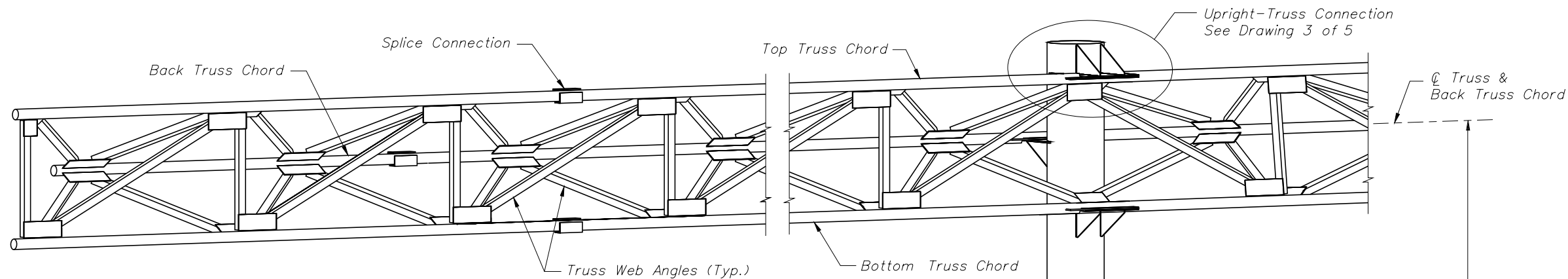
HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: CHRISTOPHER J. MILLS, P.E
 LIC. NO. 56801

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

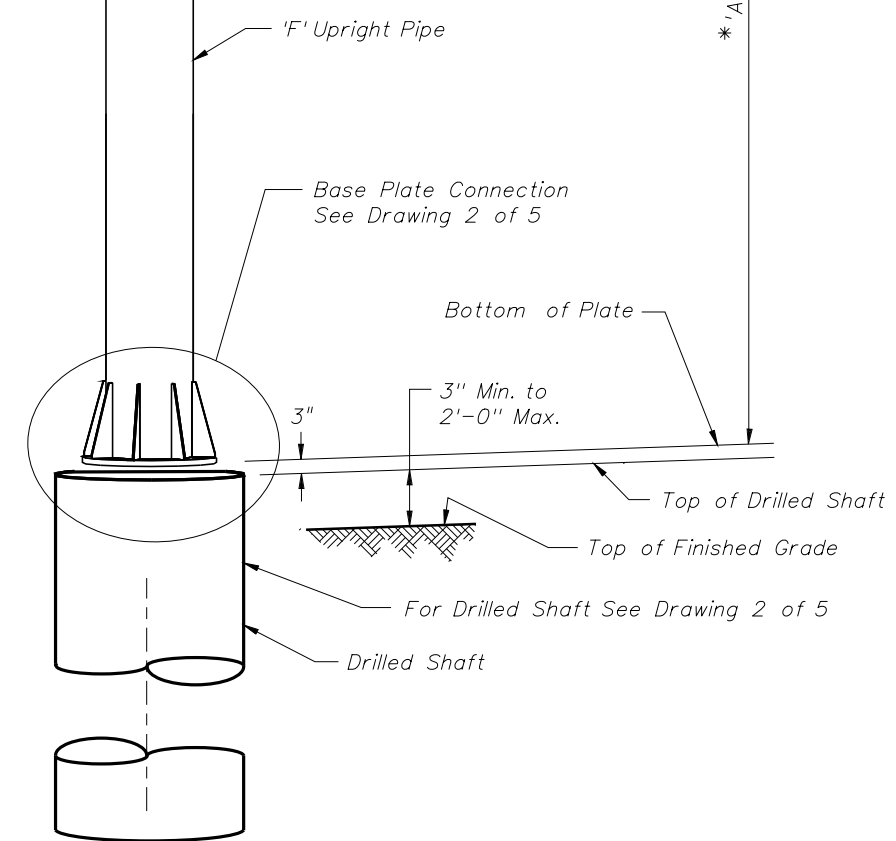
SPAN SIGN STRUCTURES DATA TABLE

SHEET NO. S-87



"BUTTERFLY" SIGN STRUCTURE NOTES

- 1) Design according to FDDT Structures Manual. Alternate Designs are not allowed.
- 2) Submit shop drawings for all work. Include:
 - a. Field verification of all upright heights.
 - b. Foundation elevations necessary to insure minimum vertical clearances as per traffic plans.
 - c. Anchor bolt orientation with respect to centerline of truss and the direction of traffic.
 - d. Show chord splices a minimum distance of 2 truss panel lengths apart. "SD" Panel from upright is the closest panel in which a chord splice may be used. See plans for "Butterfly" Sign Structure Data Table. Upright splices are not allowed.
- 3) Shop Fabrication, Assembly, Handling and Shipping:
 - a. Do not begin fabrication before receiving shop drawing approval.
 - b. Welding: Conform to American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition).
 - c. Shop assemble the entire structure after galvanizing and prior to shipment.
 - d. If necessary, disassemble and secure components for shipment.
- 4) Sign Structure Materials:
 - a. Upright and Chords (Steel Pipe): API -5L-X42, 42 ksi yield or ASTM A500, Grade B (min.).
 - b. Steel Angles: ASTM A 709, Grade 36.
 - c. Steel Plates: ASTM A 709, Grade 36.
 - d. Weld Metal: E70XX.
 - e. Bolts: ASTM A325 Type 1, (install per Specification Section 700) with single, self-locking nuts.
 - f. Anchor Bolts: ASTM F1554, Grade 55 with ASTM A563 Grade A heavy-hex double nuts.
 - g. Install all nuts per manufacturer's instructions.
 - h. Bolt hole diameters: equal to the bolt diameter plus 1/16".
 - i. Anchor bolt hole diameters: equal to the bolt diameter plus 1/2".
 - j. Use of split lock washers is not permitted.
- 5) Galvanization: Nuts, bolts and washers: ASTM F2329. Other steel items: ASTM A123
- 6) Sign Panels: Aluminum. See Elevation drawing for sizes and locations.
- 7) Foundation Materials:
 - a. Reinforcing Steel: ASTM A615, Grade 60.
 - b. Concrete: Class IV (Drilled Shaft), minimum 4.0 ksi compressive strength at 28-days for all environmental classifications for Drilled Shaft.
- 8) Construct the Sign Structure foundation in accordance with FDDT Specification Section 455.
- 9) Prior to erection, record the as-built anchor locations and provide to the Engineer.
- 10) After placement of the upright and prior to installation of the truss, adjust the leveling nuts beneath the base plate to achieve a level upright with no back rake.
- 11) Install sign panels as shown on the Elevation drawing.
- 12) Verify CSL access tubes will not interfere with anchor bolt installation before excavating the shaft. When CSL access tube locations conflict with anchor bolt locations, move the CSL access tube location +/- two inches along the inner circumference of the reinforcing cage. Notify the Engineer before excavating the shaft if the CSL access tube locations cannot be moved out of conflict with anchor bolt locations.
- 13) Handhole at pole base is required for DMS Structures. See index 18300 for details.



ISOMETRIC VIEW

* NOTE: Contractor shall verify these Dimensions prior to Fabrication of Upright.

NOTE: Work modified Index 11310 "'Butterfly' Sign Structure" with "Table of 'Butterfly' Sign Structure Variables" Sheet No. S-94.

NOTE: See Design Standards for information on sign connection and lighting installation.

INDEX 11310 (MODIFIED DRAWING 1 OF 5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
 HNTB CORPORATION
 610 CRESCENT EXECUTIVE CT
 SUITE 400
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: CHRISTOPHER J. MILLS, P.E.
 LIC. NO. 56801

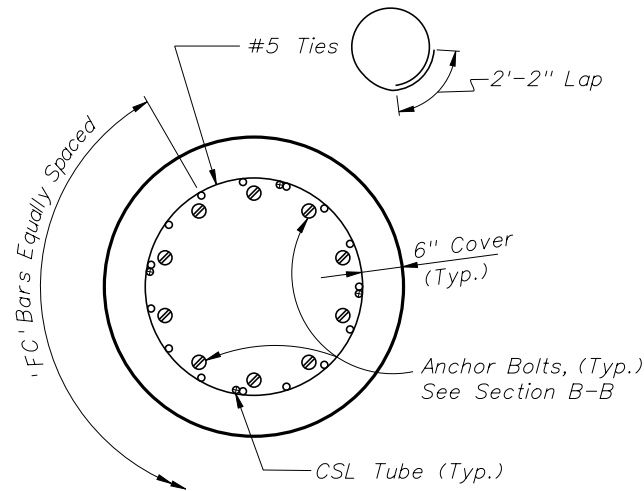
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

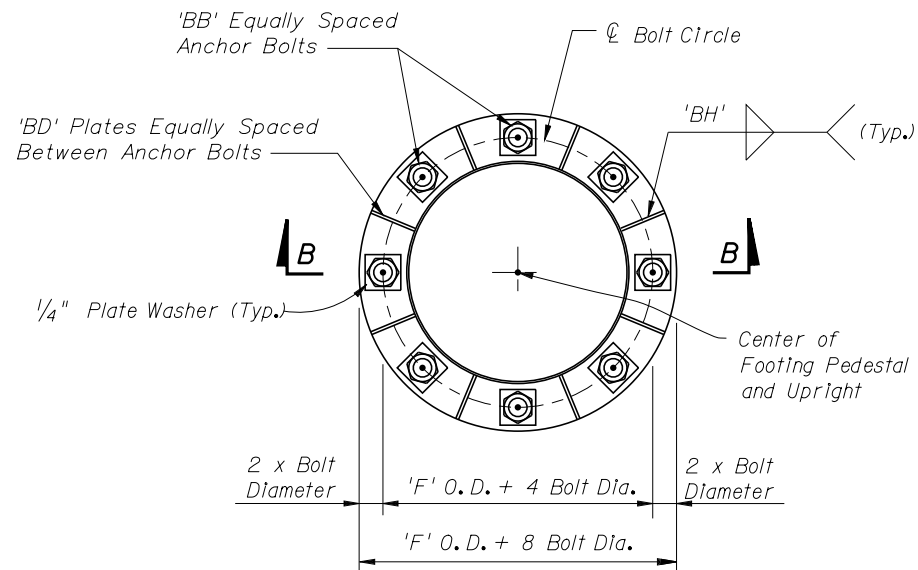
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BUTTERFLY SIGN STRUCTURES

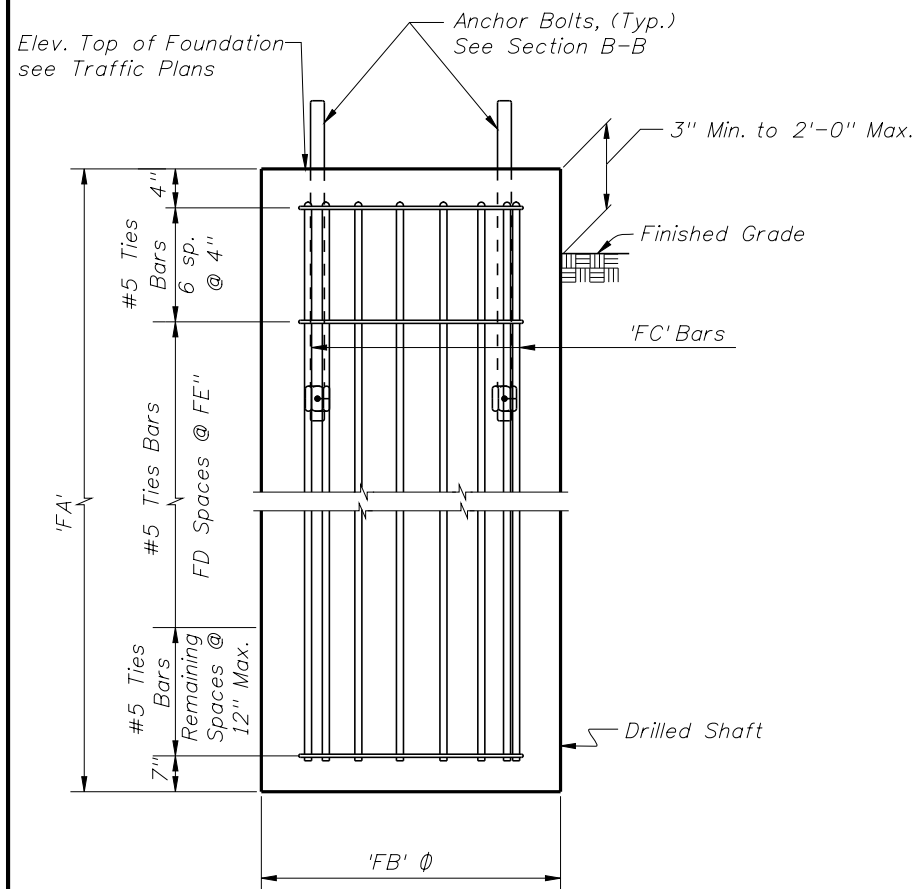
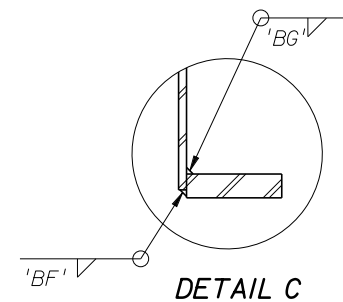
SHEET NO.
S-88



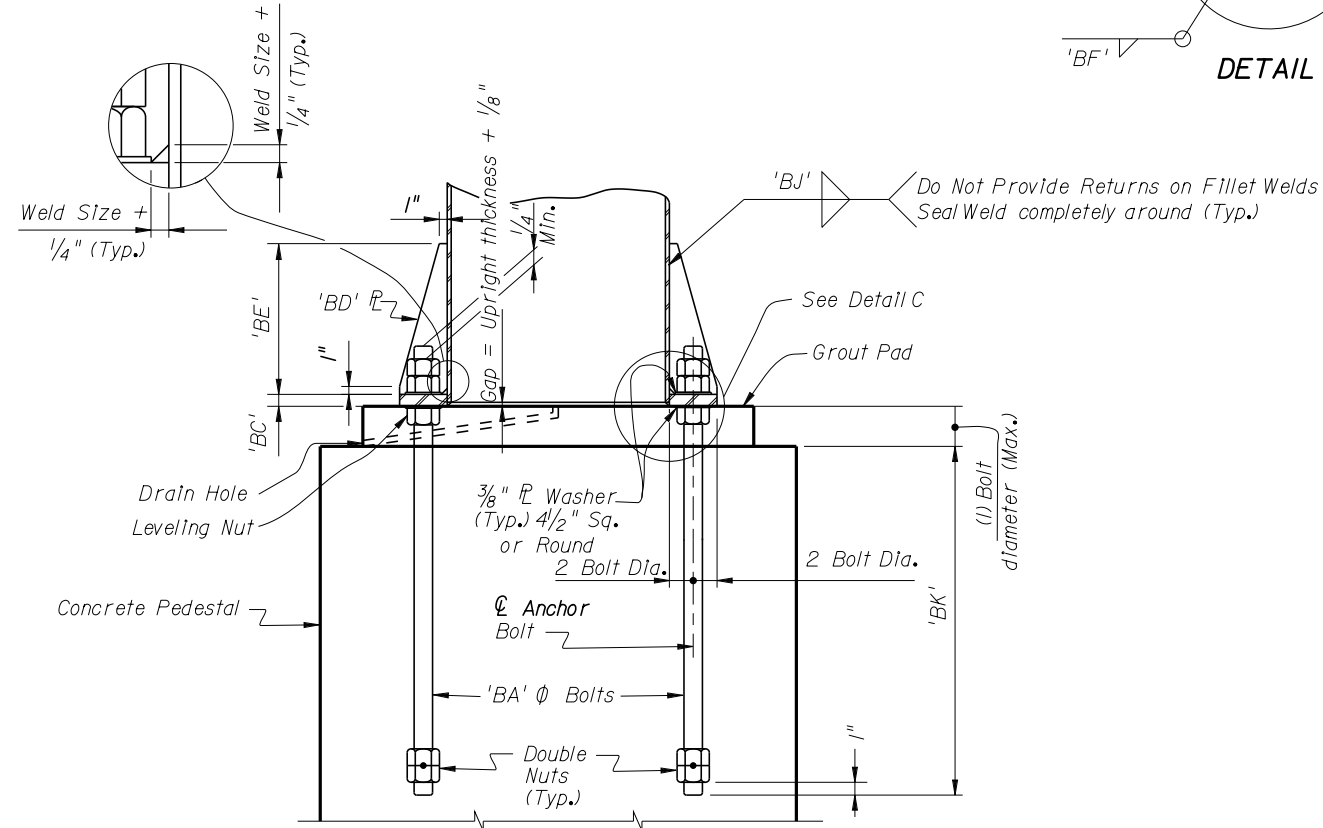
PLAN VIEW DRILLED SHAFT



PLAN VIEW
(Base Plate)



ELEVATION DRILLED SHAFT
(Alternate Foundation)



SECTION B-B

INDEX 11310 (MODIFIED DRAWING 2 OF 5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

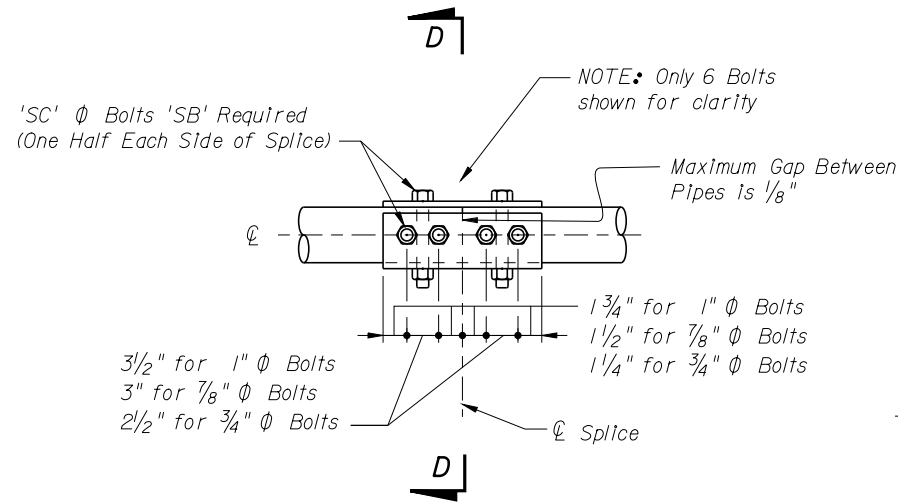
HNTB
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 LIC. NO. 56801

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

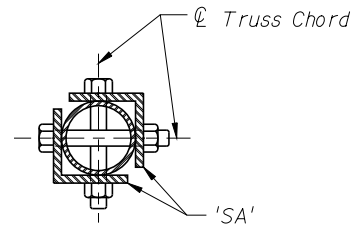
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BUTTERFLY SIGN STRUCTURES

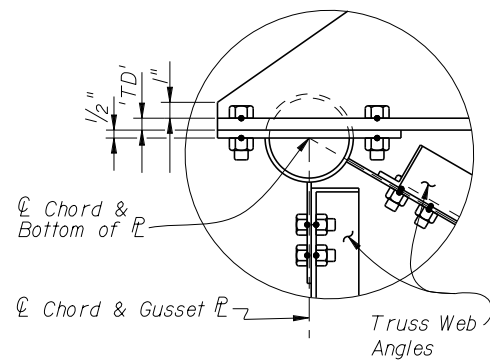
SHEET NO. S-89



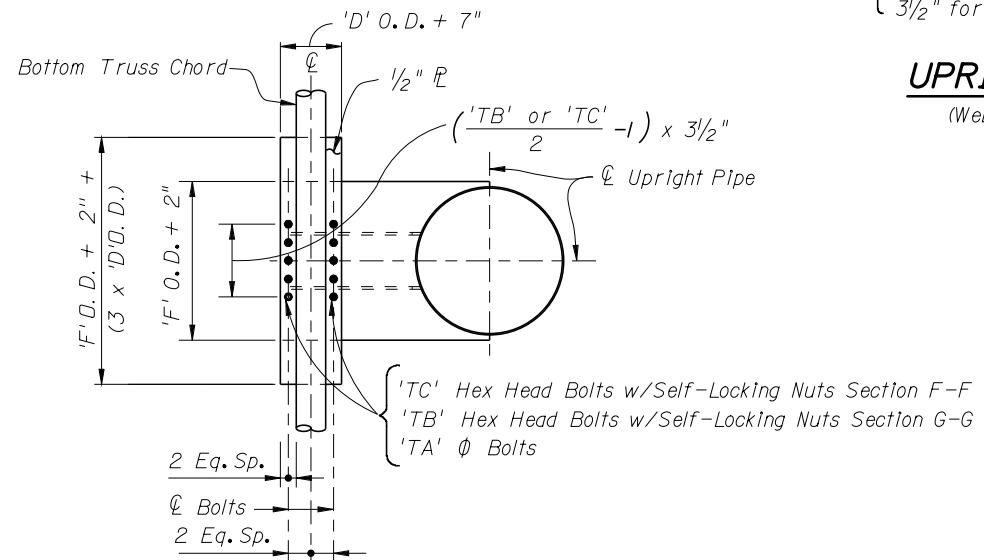
SPLICE CONNECTION DETAIL



SECTION D-D

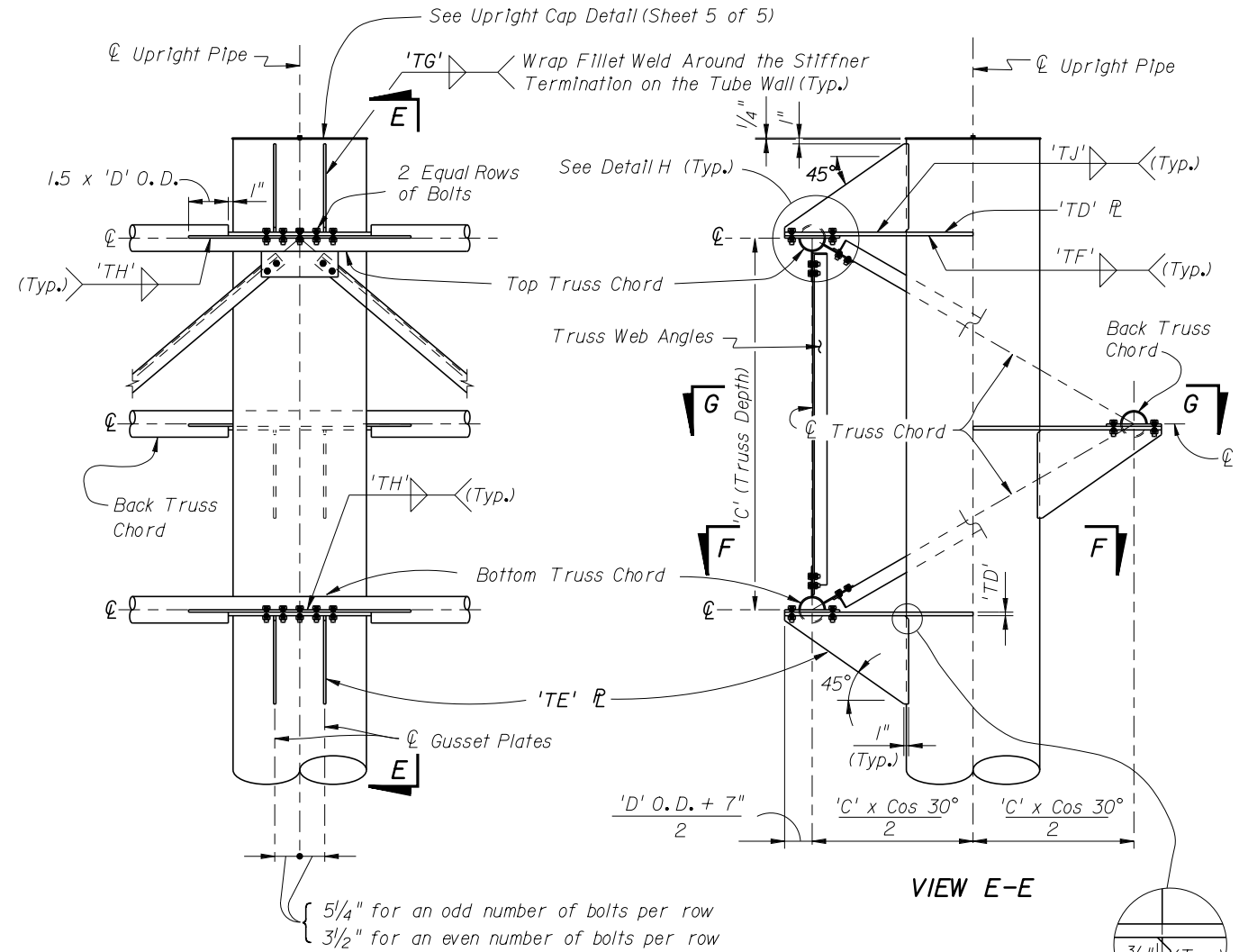


DETAIL H



SECTION F-F, SECTION G-G SIMILAR

(With Gusset Plate & Angles omitted for clarity)



UPRIGHT-TRUSS CONNECTION DETAIL

(Web Members from back Truss Chord omitted for clarity)

NOTE:
Abbreviation
O.D. - Outside Diameter

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB

HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: CHRISTOPHER J. MILLS, P.E
LIC. NO. 56801

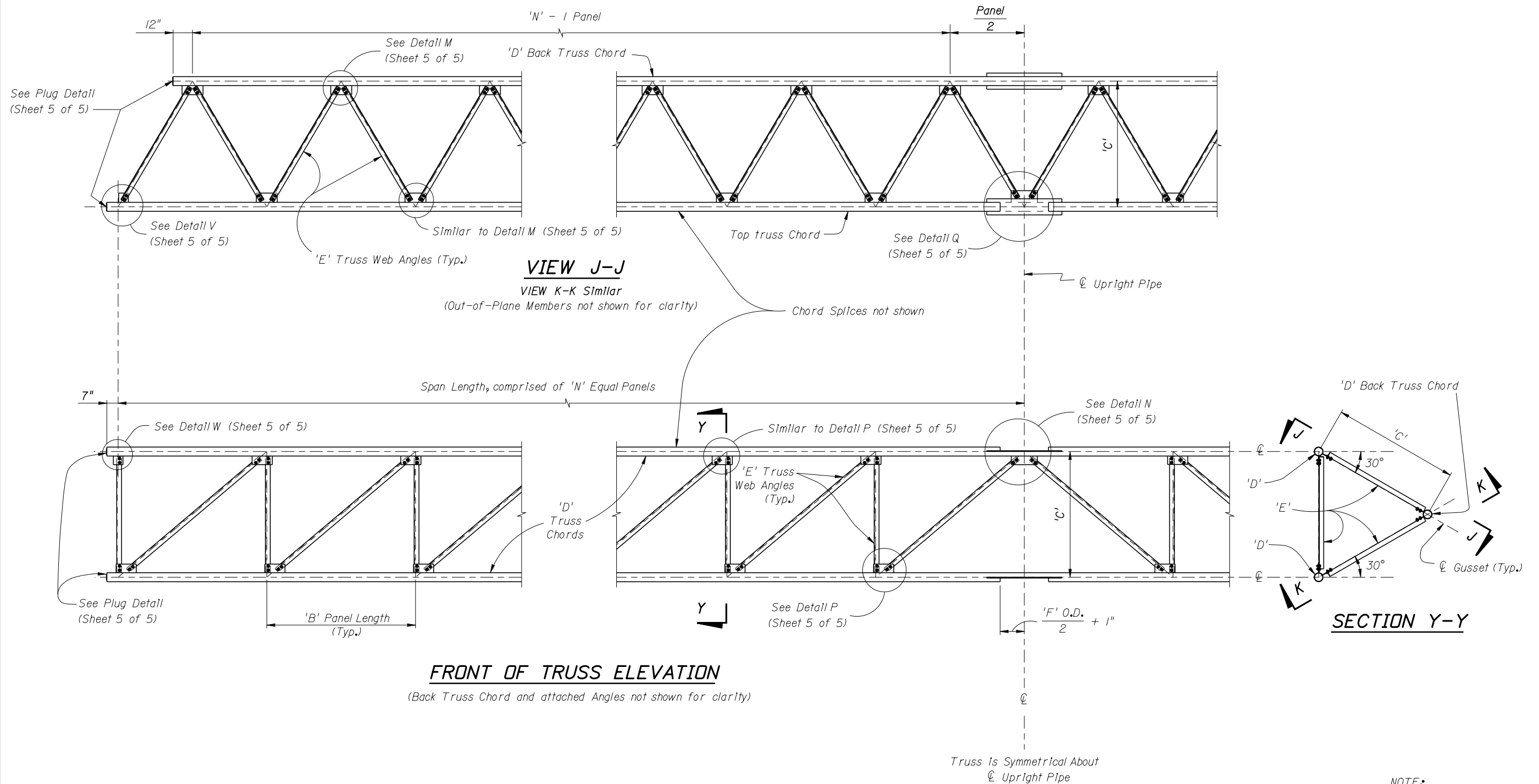
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BUTTERFLY SIGN STRUCTURES

SHEET NO. S-90



NOTE:
Abbreviation
O.D. - Outside Diameter

INDEX 11310 (MODIFIED DRAWING 4 OF 5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

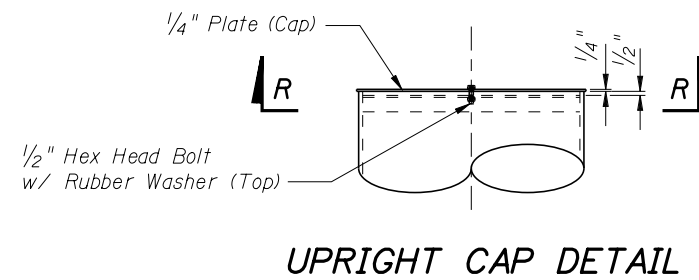
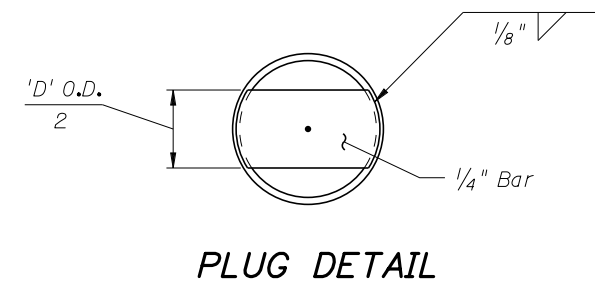
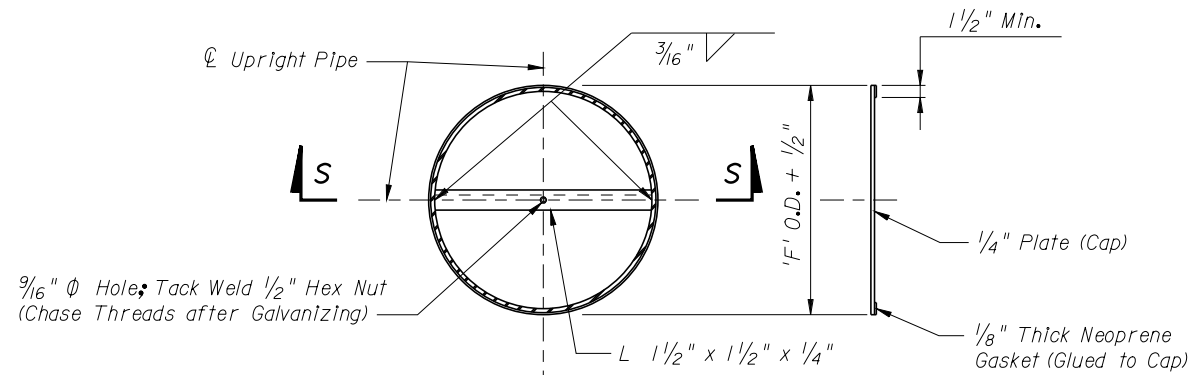
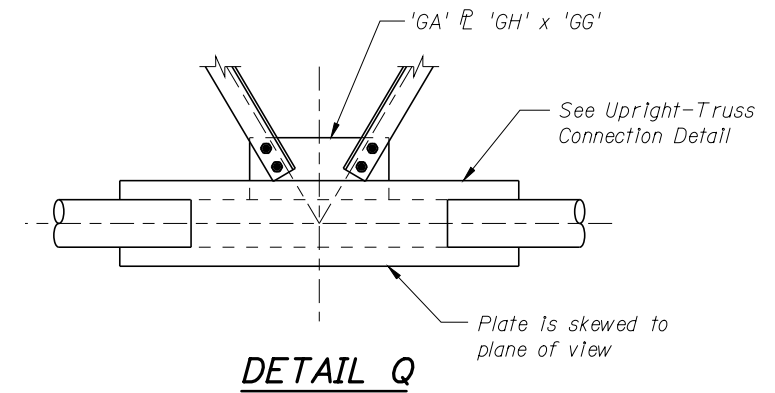
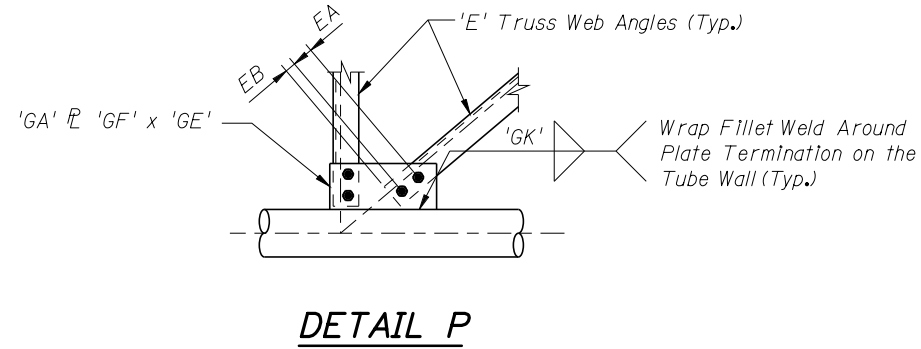
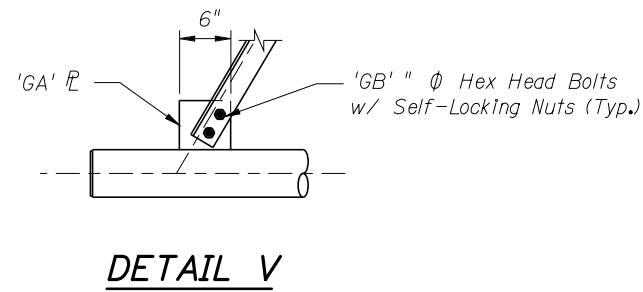
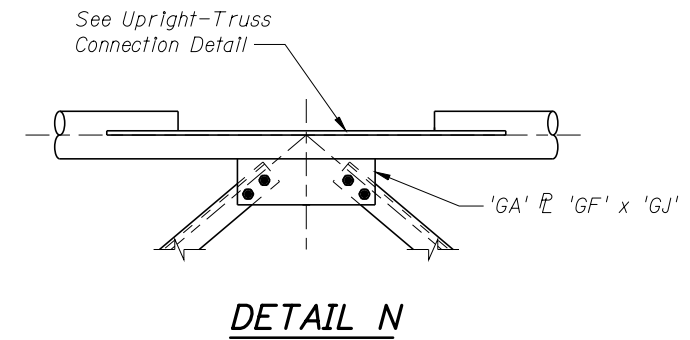
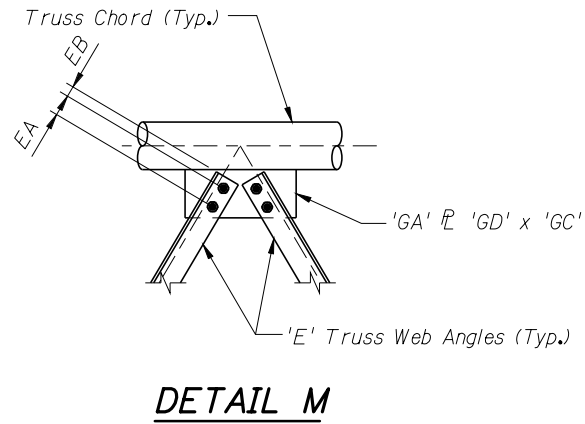
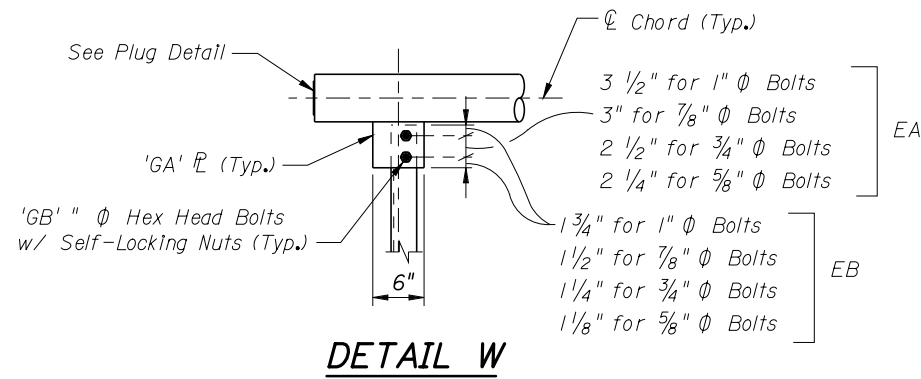
HNTB
HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: CHRISTOPHER J. MILLS, P.E
LIC. NO. 56801

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ROAD NO. SR 429
PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BUTTERFLY SIGN STRUCTURES

SHEET NO.
S-91



NOTE:

Abbreviation

O.D. - Outside Diameter

INDEX 11310 (MODIFIED DRAWING 5 OF 5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB

HNTB CORPORATION
610 CRESCENT EXECUTIVE CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: CHRISTOPHER J. MILLS, P.E
LIC. NO. 56801

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BUTTERFLY SIGN STRUCTURES

SHEET NO.
S-92

MODEL: \$MODELNAME\$
 SHEET SIZE: \$SHEETSIZE\$
 PLOT SCALE: \$PLOTSCALE\$

PRINT DRIVER: \$PRINTDRIVER\$
 PEN TABLE: \$PEN\$


"BUTTERFLY" CANTILEVER SIGN STRUCTURES DATA TABLE										Table Date 01-01-11
SIGN NO.	STATION / OFFSET	DIMENSIONS				PANELS	MEMBER SIZES			BACKRAKE
		A	B		C	N	D (CHORD)	E (WEB)	F (UPRIGHT)	G
		ft	ft	in	in	#	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	in
TT-1	69+90 / 53.8" Lt	26.5	7	9	84	2	3.5 x 0.216	3x3x5/16	24.0 x 0.563	0

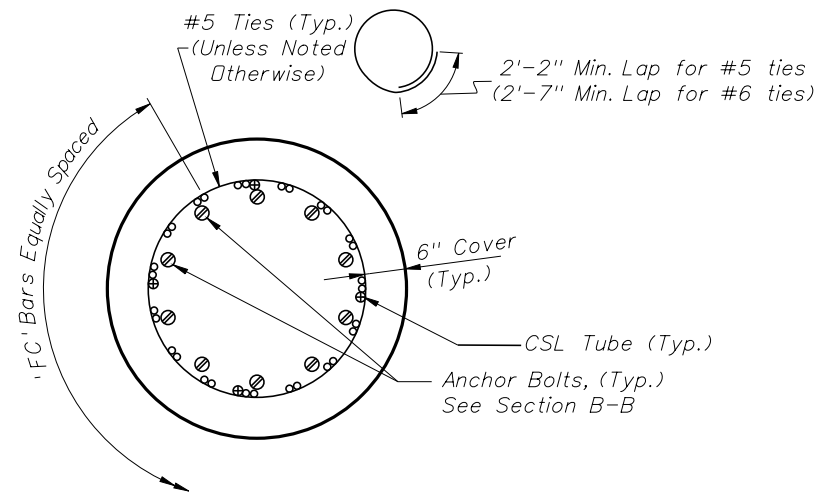
NOTES:
 1. Work these Data Tables with Index 11310.
 2. Design Wind Speed = 130 mph.

FOUNDATION NOTES:
 1. Design based on Borings taken and sealed by NADIC ENGINEERING SERVICES, INC., Godwin Nnadi, PE #50637.
 2. For Assumptions and Values used in design See Sheet S-94.

"BUTTERFLY" CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)																								Table Date 01-01-11							
SIGN NO.	GUSSET PLATES															TRUSS CONNECTION							SPLICE								
	GA	GB	GC		GD		GE		GF		GG		GH		GJ		GK	TA	TB	TC	TD	TE	TF	TG	TH	TJ	SA	SB	SC	SD	
	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in	in	#	#	in	in	in	in	in	in	in	in	in	in	
TT-1	3/8	7/8	1	1/2		6 3/4	1	0		6 1/2	2	11		9 1/4	1	9 1/2	3/16	7/8	4	4	1/2	5/8	1/4	1/4	3/16	3/16	—	—	—	—	

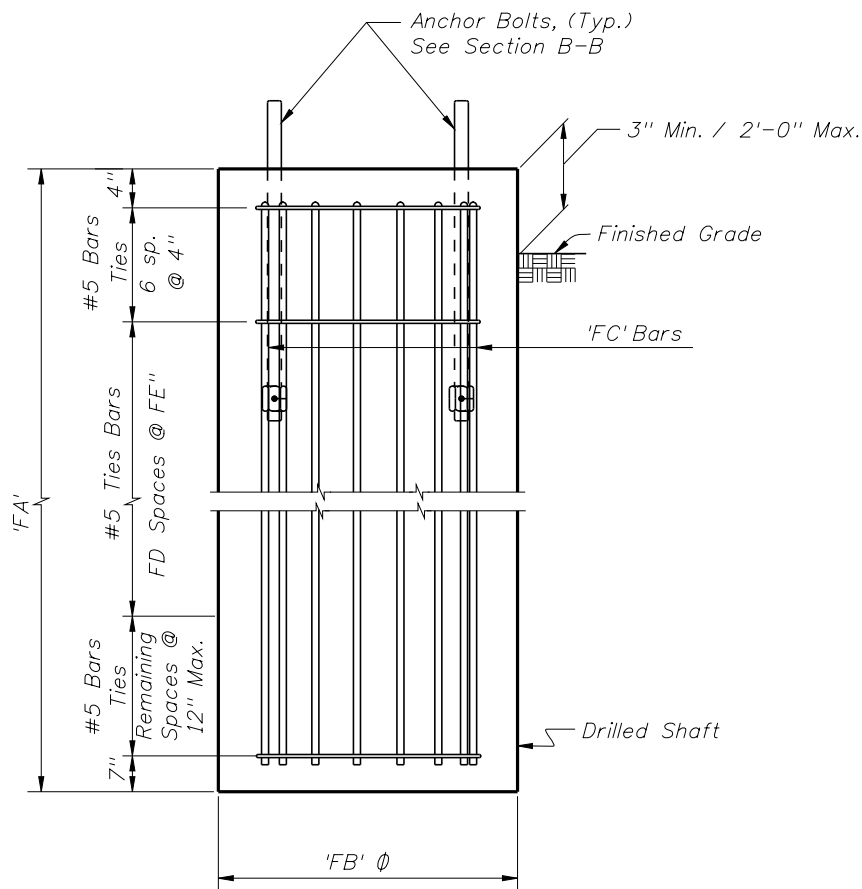
"BUTTERFLY" CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)																						
SIGN NO.	BASE CONNECTION										ANCHOR		DRILLED SHAFT DIMENSIONS						GROUT PAD	TOP DRILLED SHAFT ELEVATION		
	BA	BB	BC	BD	BE		BF	BG	BH	BJ	BK		FA		FB		FC				FD	FE
	in	#	in	in	ft	in	in	in	in	in	ft	in	ft	in	ft	in	EA	Size	#	in	Y/N	
TT-1	2 1/4	10	1 1/2	1/2	2	6 3/4	5/16	5/16	5/16	3/16	4	3	21	3	4	0	12	11	18	12	Y	123.15

REVISIONS				 <small>HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500</small>	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	BUTTERFLY SIGN STRUCTURES DATA TABLE	SHEET NO. S-93
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
					<small>ENGINEER OF RECORD: CHRISTOPHER J. MILLS, P.E LIC. NO. 56801</small>	SR 429			429-202



PLAN VIEW DRILLED SHAFT

(For OC-1, OC-2, OC-5 to OC-7, OC-10)



ELEVATION DRILLED SHAFT

Note:
For OC-5, use #6 Tie Bars.

Sign Structures Soil Parameters								
Location/ Baseline	Sign No./ Boring No.	Approx. Boring Station & Offset	Ave. SPT "N" Values	Soil Type	Weighted Ave. Unit Wt. (pcf)	Angle of Internal Friction (degrees)	Cohesion (psf)	At-Rest Pressure Coefficient (K _o)
SR 429 NB	OC-2	661+00 / 81.5' Rt	18	Sand	49	30	--	0.50
SR 429 SB	OC-5	115+20 / 96' Lt	11	Sand	50	30	--	0.50
	OC-6	142+00 / 94' Lt	14	Sand	48	30	--	0.50
Connector Road WB	OC-7	168+00 / 94' Lt	7	Clay	43	20	800	--
	OC-10	67+20 / 55.7' Lt	11	Sand	46	30	--	0.50
	TT-1	69+90 / 53.8 Lt	11	Clay	53	21	950	--
Connector Road EB	TSP-1	65+27 / 55' Lt	15	Clay	48	21	1000	--
	DT-3LT	60+10 / 71.5' Lt	19	Sand	48	30	--	0.50
	DT-3RT	60+10 / 61.5' Lt	11	Sand	48	30	--	0.50
SR 429 (Western Expressway) Boy Scott Rd to US 441								
SR 429 NB	OC-1	650+60 / 80' Rt	8	Sand	45	29	--	0.51
	OC-3	681+40 / 80' Rt	21	Sand	52	32	--	0.47
	OC-4	699+82 / 89' Rt	11	Sand	49	30	--	0.50
US 441	OC-8	924+60 / 54' Rt	10	Sand	54	30	--	0.50
	DT-1RT	838+45 / 126' Rt	14	Sand	49	30	--	0.50
	DT-1LT	838+65 / 45' Rt	12	Sand	51	30	--	0.50
Connector Road	DT-2RT	53+40 / 62' Lt	13	Sand	52	30	--	0.50
	DT-2LT	53+40 / 64' Lt	16	Sand	54	30	--	0.50
	OC-9	60+31 / 62' Rt	10	Sand	52	30	--	0.50

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

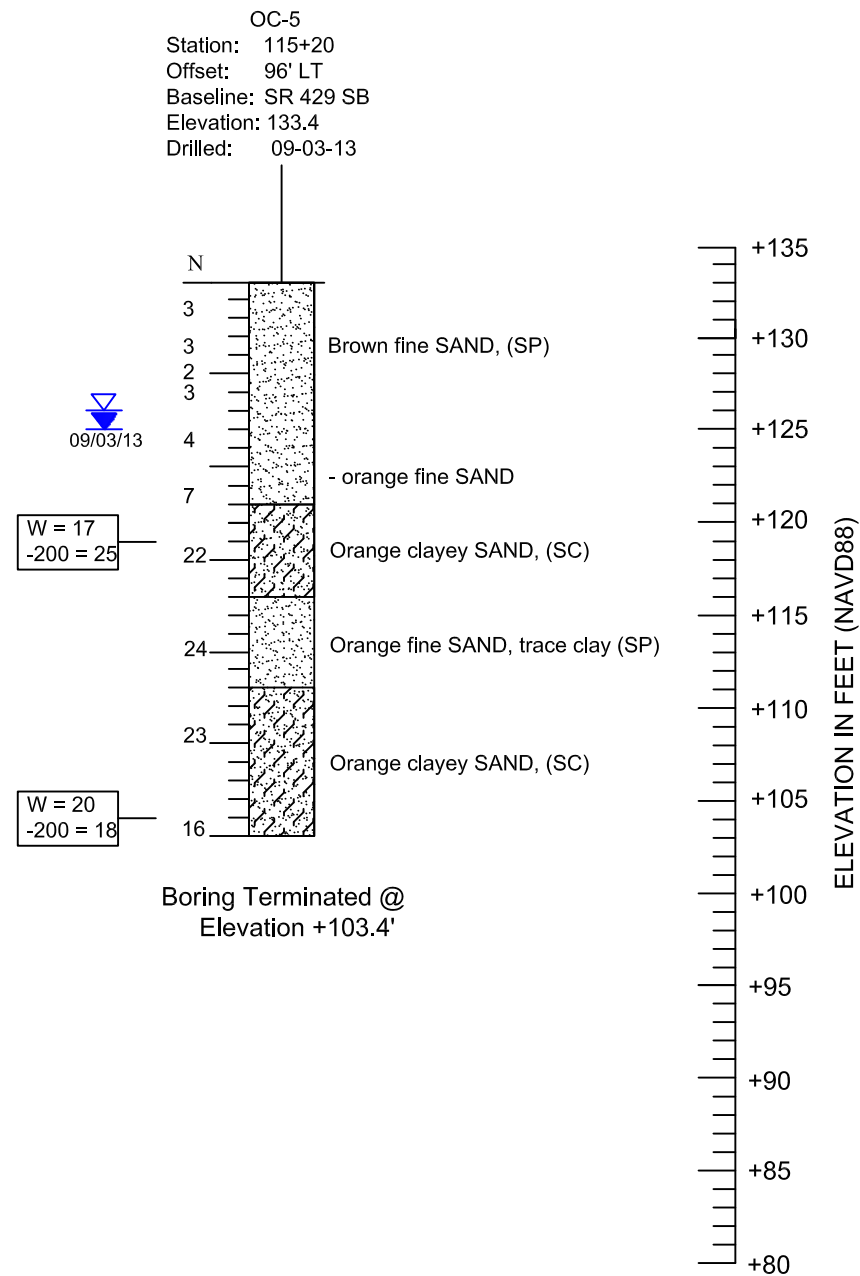
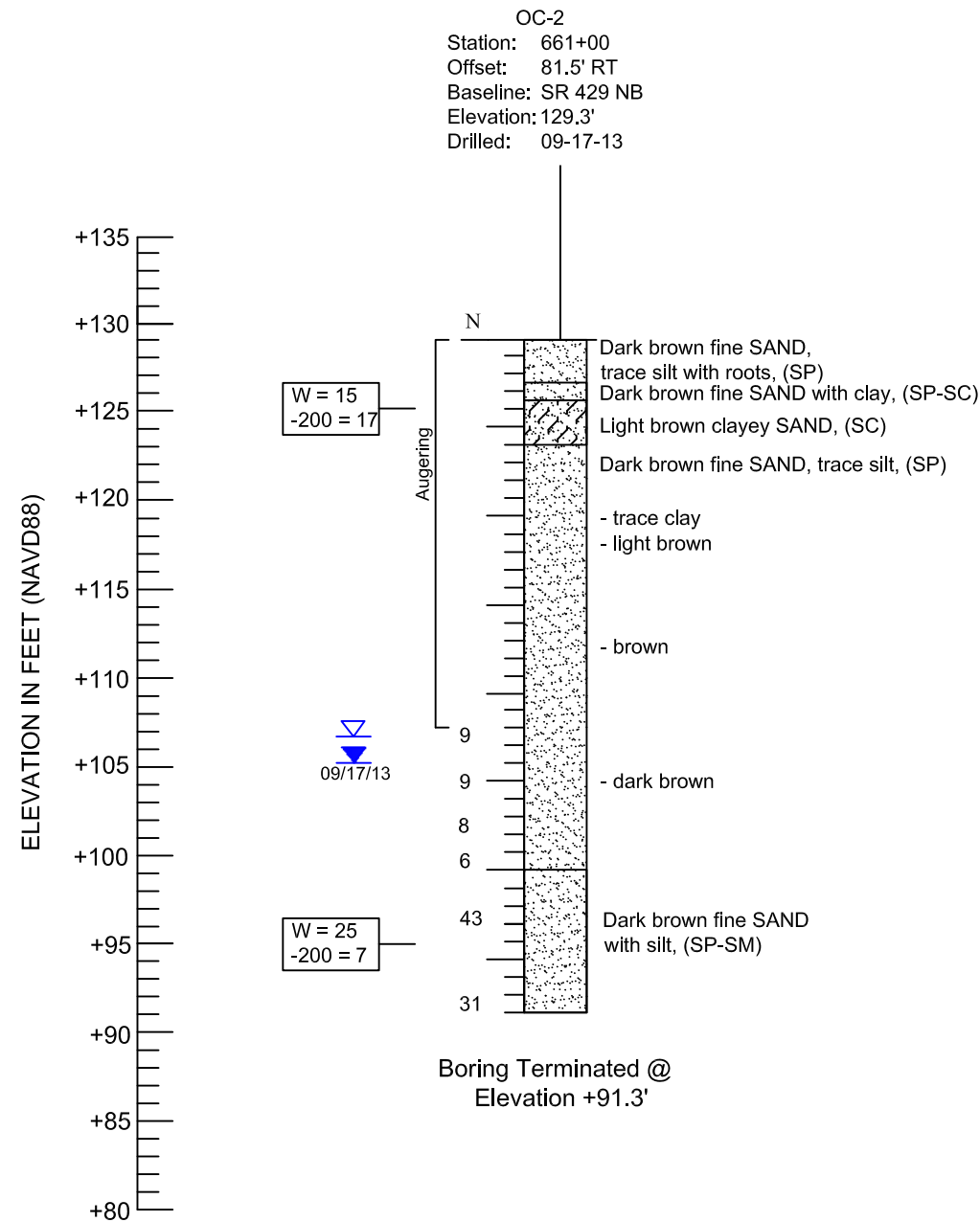
HNTB
 HNTB CORPORATION
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 LAKE MARY, FL 32746
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 CERT. OF AUTH. NO. 6500
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 LIC. NO. 56801

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SOIL PARAMETERS & MISCELLANEOUS DETAILS

SHEET NO.
S-94



LEGEND



(SP) Unified soil classification group symbol
 N Standard penetration resistance in blows per foot (18" spoon ASTM D-1586) using 140 lb safety hammer (manual)

10/11/13 Groundwater level on date shown
 Groundwater level on date shown
 Estimated seasonal high groundwater level

W = Natural moisture content (%) (FM 1-T 265)
 -200 = Percent passing no. 200 U.S. standard sieve (FM 1-T 088)

NOTES

- Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
- Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
- Based on a review of St. Johns River Water Management District Potentiometric map of the upper Floridan Aquifer for the Project Area, the maximum potential Artesian Head Elevation in the Florida Aquifer is estimated to be approximately +40 to +60 feet NAVD.

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FT.)
Very loose	Less than 4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Greater than 50

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 2
Soft	2-4
Firm	4-8
Stiff	8-15
Very Stiff	15-30
Hard	Greater than 30

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:

NES
 NADIC ENGINEERING SERVICES, INC.
 601 N. HART BLVD.
 ORLANDO, FL 32818
 CERTIFICATE OF AUTHORIZATION NO. 00008214
 DR. GODWIN N. NNADI P.E. NO. 50637

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

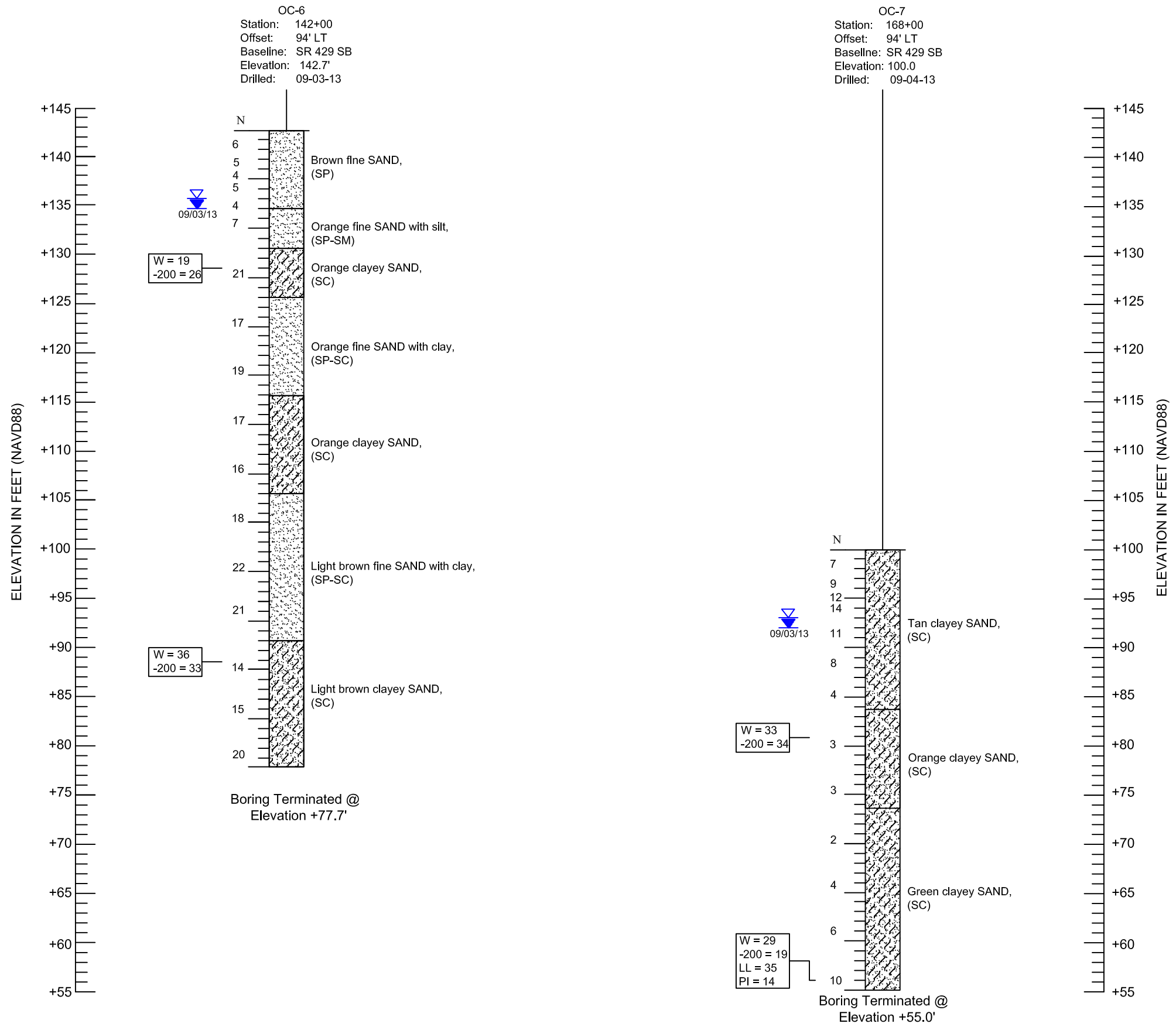
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SHEET TITLE:
REPORT OF SPT BORINGS - SIGN STRUCTURES

PROJECT NAME:
S.R. 429 (WEKIVA PARKWAY)

SHEET NO.

S-95



LEGEND

	SAND		SANDY CLAY		CLAYEY SAND
(SP)	Unified soil classification group symbol				
N	Standard penetration resistance in blows per foot (18" spoon ASTM D-1586) using 140 lb safety hammer (manual)				
	Groundwater level on date shown				
	Estimated seasonal high groundwater level				
W =	Natural moisture content (%) (FM 1-T 265)				
-200 =	Percent passing no. 200 U.S. standard sieve (FM 1-T 088)				
LL =	Liquid Limit (%) (FM 1-T 267)				
PL =	Plasticity Index (%) (FM 1-T 090)				

- NOTES**
- Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
 - Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
 - Based on a review of St. Johns River Water Management District Potentiometric map of the upper Floridan Aquifer for the Project Area, the maximum potential Artesian Head Elevation in the Florida Aquifer is estimated to be approximately +40 to +60 feet NAVD.

GRANULAR MATERIALS	
RELATIVE DENSITY	SPT (BLOWS/FT.)
Very loose	Less than 4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Greater than 50

SILTS AND CLAYS	
CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 2
Soft	2-4
Firm	4-8
Stiff	8-15
Very Stiff	15-30
Hard	Greater than 30

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
NES
 NADIC ENGINEERING SERVICES, INC.
 601 N. HART BLVD.
 ORLANDO, FL 32818
 CERTIFICATE OF AUTHORIZATION NO. 00008214
 DR. GODWIN N. NNADI P.E. NO. 50637

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

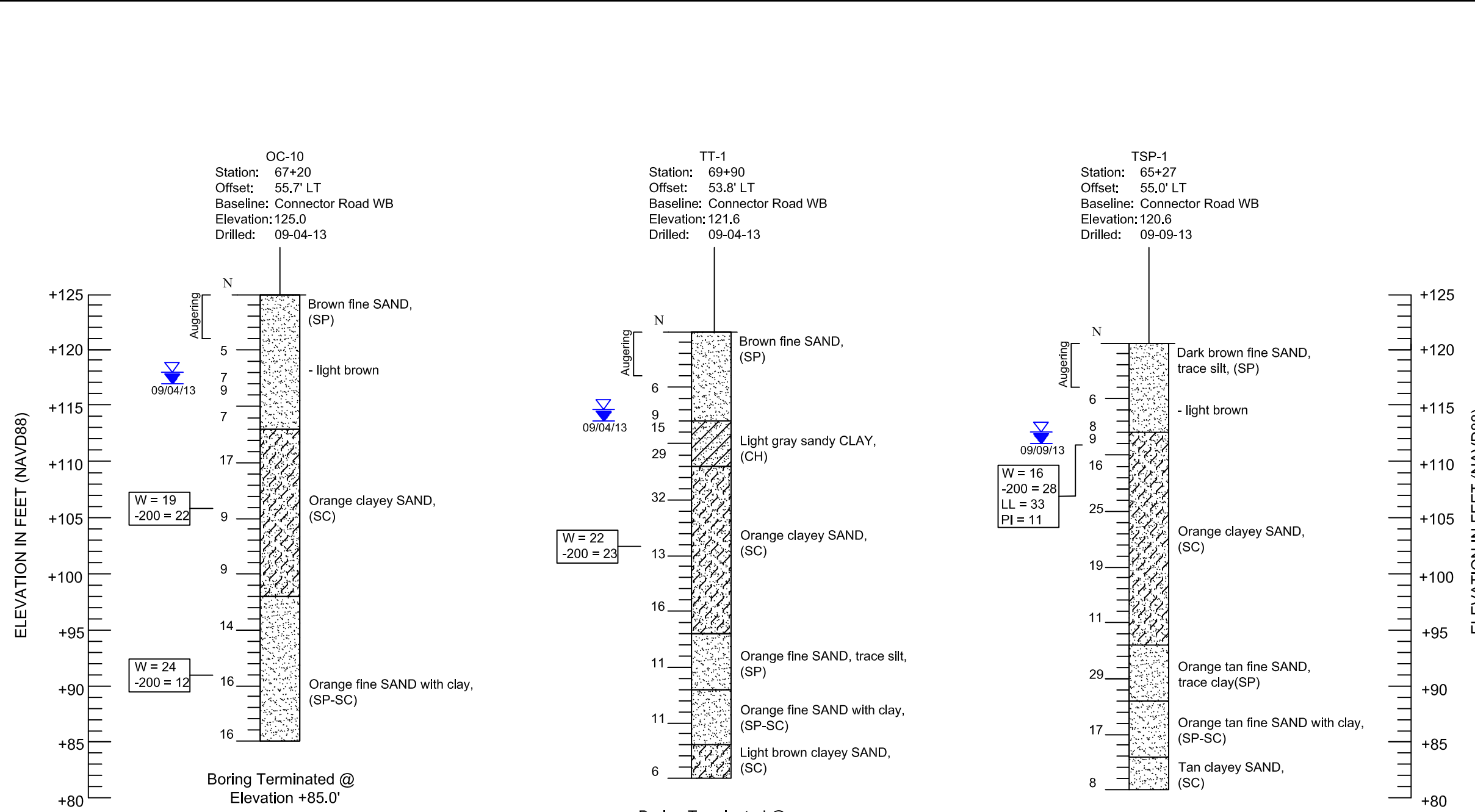
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SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SHEET TITLE:
REPORT OF SPT BORINGS - SIGN STRUCTURES

PROJECT NAME:
S.R. 429 (WEKIVA PARKWAY)

SHEET NO.
S-96



LEGEND

SAND
 SANDY CLAY
 CLAYEY SAND

(SP) Unified soil classification group symbol
 N Standard penetration resistance in blows per foot (18" spoon ASTM D-1586) using 140 lb safety hammer (manual)

10/11/13 Groundwater level on date shown
 Estimated seasonal high groundwater level

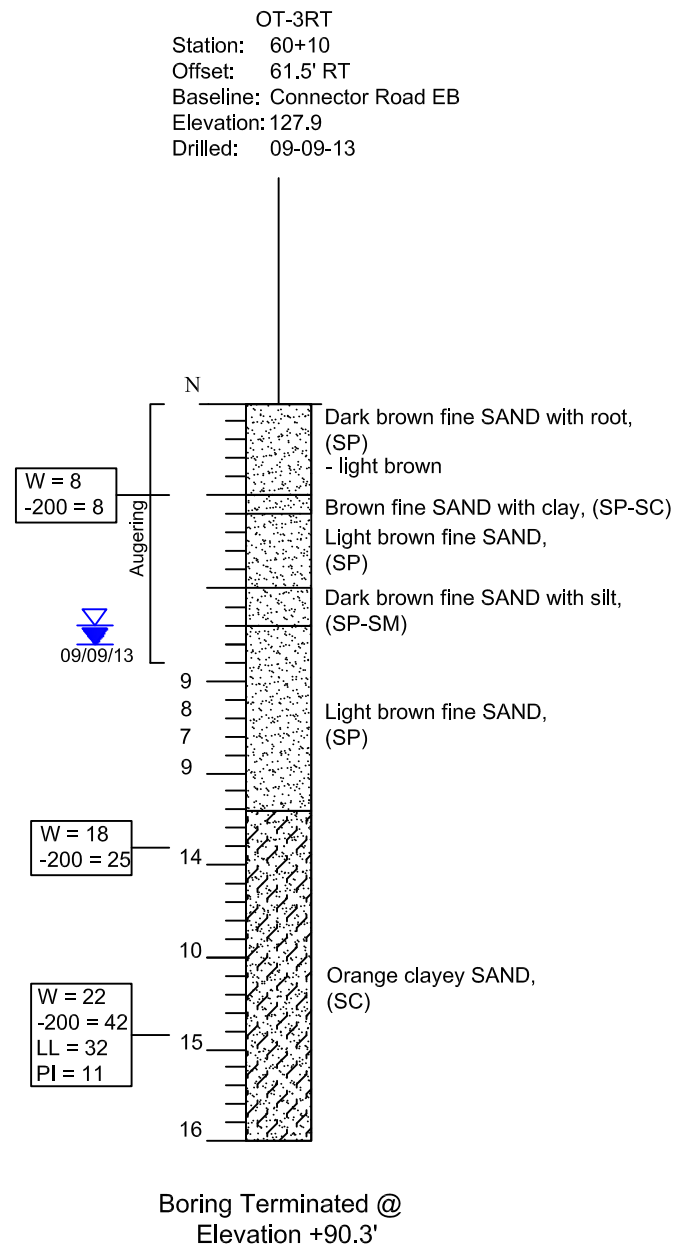
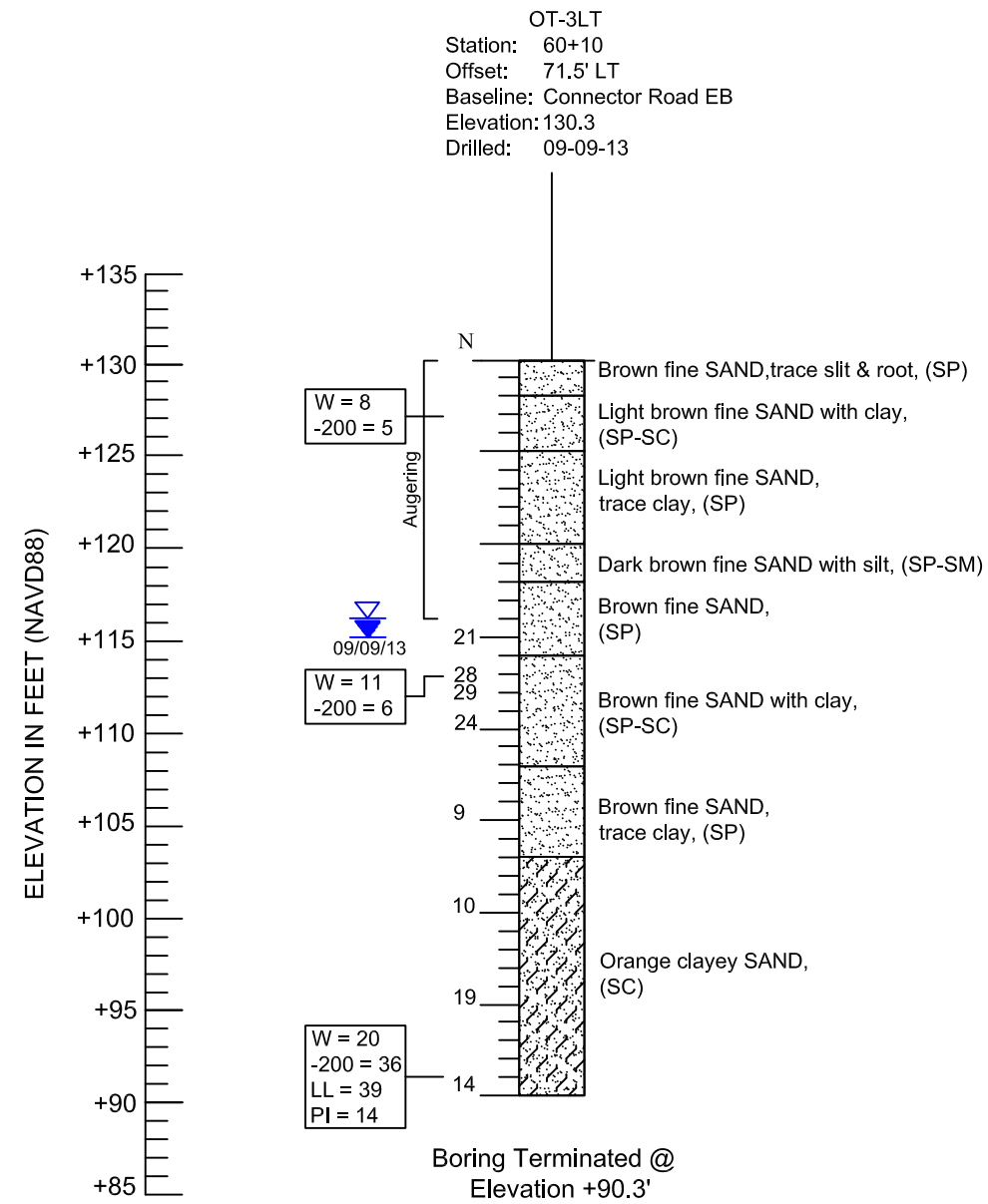
W = Natural moisture content (%) (FM 1-T 265)
 -200 = Percent passing no. 200 U.S. standard sieve (FM 1-T 088)
 LL = Organic Content (FM 1-T 267)
 PL = Plasticity Index (%) (FM 1-T 090)

- ### NOTES
- Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
 - Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
 - Based on a review of St. Johns River Water Management District Potentiometric map of the upper Floridan Aquifer for the Project Area, the maximum potential Artesian Head Elevation in the Florida Aquifer is estimated to be approximately +40 to +60 feet NAVD.

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Medium Dense	10-30
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Very Dense	Greater than 50

SILTS AND CLAYS	
CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 2
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Hard	Greater than 30

REVISIONS				ENGINEER OF RECORD: NES NADIC ENGINEERING SERVICES, INC. 601 N. HART BLVD. ORLANDO, FL 32818 CERTIFICATE OF AUTHORIZATION NO. 00008214 DR. GODWIN N. NNADI P.E. NO. 50637	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		SHEET TITLE: REPORT OF SPT BORINGS - SIGN STRUCTURES	SHEET NO. S-97
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.		
					SR 429	429-202	PROJECT NAME: S.R. 429 (WEKIVA PARKWAY)	



LEGEND

SAND SANDY CLAY CLAYEY SAND

(SP) Unified soil classification group symbol
 N Standard penetration resistance in blows per foot (18" spoon ASTM D-1586) using 140 lb safety hammer (manual)

10/11/13 Groundwater level on date shown
 Estimated seasonal high groundwater level

W = Natural moisture content (%) (FM 1-T 265)
 -200 = Percent passing no. 200 U.S. standard sieve (FM 1-T 088)
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 PL = Plasticity Index (%) (FM 1-T 090)

- NOTES**
- Plan view is preliminary for showing boring locations only and may not be indicative of final plans.
 - Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
 - Based on a review of St. Johns River Water Management District Potentiometric map of the upper Floridan Aquifer for the Project Area, the maximum potential Artesian Head Elevation in the Florida Aquifer is estimated to be approximately +40 to +60 feet NAVD.

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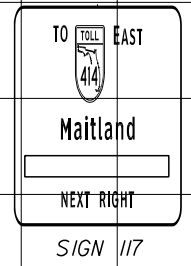
SILTS AND CLAYS	
CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 2
Soft	2-4
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Stiff	8-15
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REVISIONS				ENGINEER OF RECORD:		CENTRAL FLORIDA EXPRESSWAY AUTHORITY		SHEET TITLE:		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	NES		ROAD NO.	PROJECT NO.	REPORT OF SPT BORINGS - SIGN STRUCTURES		S-98
				NADIC ENGINEERING SERVICES, INC. 601 N. HART BLVD. ORLANDO, FL 32818 CERTIFICATE OF AUTHORIZATION NO. 00008214 DR. GODWIN N. NNADI P.E. NO. 50637		SR 429	429-202	PROJECT NAME: S.R. 429 (WEKIVA PARKWAY)		

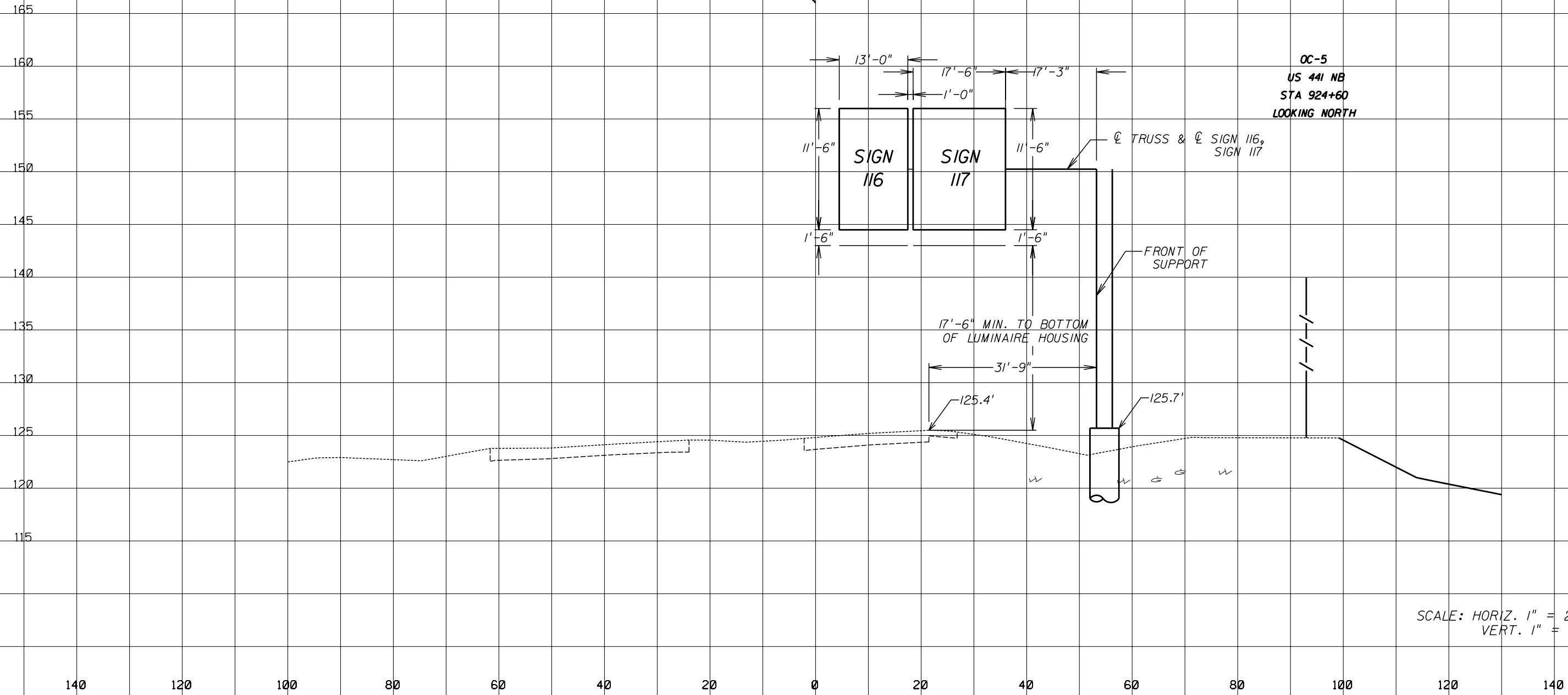
NOTES:

1. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED CANTILEVER STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.
2. SIGN STRUCTURE DESIGN WAS BASED ON PARTS A) TO E) OF GENERAL NOTE 18.
3. CANTILEVER DESIGNED TO ACCOMMODATE ULTIMATE PANEL 116(ULT) TO REPLACE SIGN PANEL 116 UNDER FUTURE PROJECT. SEE SHEET S-100 FOR ULTIMATE OC-5 CROSS SECTION.

AS-BUILT



@ CONST.
US 441



REVISIONS			
DATE	BY	DESCRIPTION	DATE

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
DYER, RIDDLE, MILLS & PRECOURT, INC.
941 LAKE BALDWIN LANE, ORLANDO, FLORIDA 32814
PHONE: (407) 896-0594 FAX: (407) 896-4836
CERTIFICATE OF AUTHORIZATION NO. 2648
CARLOS MARTINEZ, P.E. LICENSE NO. 51429

OOCEA PROJ. NO.
429-201



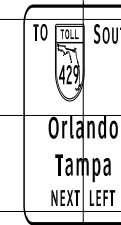
SIGN CROSS SECTIONS
OC-5

SHEET NO.
S-99A

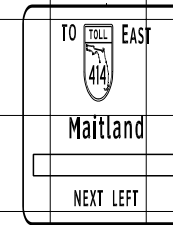
NOTES:

1. PRIOR TO DRILLED SHAFT OR SPREAD FOOTING INSTALLATIONS, BOTH THE CONTRACTOR AND CEI SHALL CONFIRM THAT ALL LOCATIONS AND ELEVATIONS WILL CORRECTLY ACCOMMODATE THE CLEARANCES AND THE TOTAL LENGTH OF THE TRUSS AS SHOWN ON THE STRUCTURAL DESIGN SHEET ENTITLED SPAN STRUCTURAL DATA TABLE AND CORRESPONDING SHOP DRAWINGS.
2. SIGN STRUCTURE DESIGN WAS BASED ON PARTS A) TO E) OF GENERAL NOTE 18.
3. SPAN DESIGNED TO ACCOMMODATE ULTIMATE PANEL (BULT) TO REPLACE SIGN PANEL 118 UNDER FUTURE PROJECT. SEE SHEET S-101 FOR ULTIMATE OT-5 CROSS SECTION.

AS-BUILT



SIGN 118



SIGN 119

OT-5
US 441 SB
STA 838+65
LOOKING SOUTH

℄ SURVEY
US 441

FRONT OF
SUPPORT

FRONT OF
SUPPORT

17'-6" MIN. TO BOTTOM
OF LUMINAIRE HOUSING

117.1'
℄ TRUSS & ℄ SIGN 118,
SIGN 119

SCALE: HORIZ. 1" = 20'
VERT. 1" = 10'

140 120 100 80 60 40 20 0 20 40 60 80 100

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
DYER, RIDDLE, MILLS & PRECOURT, INC.
941 LAKE BALDWIN LANE, ORLANDO, FLORIDA 32814
PHONE: (407) 896-0594 FAX: (407) 896-4836
CERTIFICATE OF AUTHORIZATION NO. 2648
CARLOS MARTINEZ, P.E. LICENSE NO. 51429

OOCEA PROJ. NO.

429-201



**SIGN CROSS SECTIONS
OT-5**

SHEET NO.

S-99B