CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGNING AND PAVEMENT MARKING DETAILS

FOR DESIGN AND CONSTRUCTION ON THE CFX SYSTEM

MARCH 2024

CENTRAL FLORIDA EXPRESSWAY AUTHORITY 4974 ORL TOWER RD. ORLANDO, FL 32807

PHONE NUMBER: (407) 690-5000 FAX NUMBER: (407) 690-5011

DATE	

REVISIONS

DATE

DESCRIPTION

ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

CENTRAL FLORIDA **EXPRESSWAY** AUTHORITY

INDEX OF SHEETS

SHEET NO.

- 1. 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 VISIBLE UNTIL SUCH TIME AS THE PROPOSED SIGN ASSEMBLY INSTALLATION IS COMPLETED.
- EXCEPT WHERE NOTED, CODE NUMBER AND SIGN LISTED ARE STANDARD AS SHOWN IN 11TH EDITION OF MUTCD AND STANDARD HIGHWAY SIGNS MANUAL, FHWA, 2004 WITH THE 2012 SUPPLEMENT.
- 4. 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.
- 5. 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.
- 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.
- 7. 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 SHALL BE CONSIDERED INCIDENTAL TO SIGN REMOVAL. FINAL WORK ITEMS MAY ONLY BE DEFERRED AT THE DIRECTION OF THE CEI.
- 8. PAYMENT FOR ALL EROSION CONTROL WORK AND MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT COST OF THE SIGN
- 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 SHALL BE CONSIDERED INCIDENTAL TO 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.
- 10. 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. SEE SPECIAL PROVISION FOR SIGNS THAT WILL BE RETURNED TO CFX.
- 11. VERIFY FIELD ELEVATIONS FOR VERTICAL SUPPORTS FOR ALL SIGNS PRIOR TO FABRICATION.
- 12. 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.
- 13. 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.
- 14. 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 CFX. NO ADDITIONAL PAYMENT WILL BE PERMITTED.
- 15. 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.
- 16. STEEL 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.
- 17. 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.
- 18. 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 FON 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
- 19. DOCUMENT ALL SIGN STRUCTURE IDENTIFICATION NUMBERS ON EXISTING STRUCTURES PRIOR TO PAINTING. ANY DAMAGED OR MISSING STRUCTURE IDENTIFICATION NUMBER SHALL BE REPORTED TO THE CEI.
- 20. PROTECT AND PRESERVE THE EXISTING SIGN STRUCTURE IDENTIFICATION NUMBER REFLECTIVE STICKERS ("NODES") DURING PAINTING. MISSING OR DAMAGED NODES SHALL BE REPLACED ONCE THE FINISH COAT HAS SUFFICIENTLY CURED. REQUESTS FOR REPLACEMENT NODES SHALL BE SUBMITTED TO THE CEI. SEE SPECIAL PROVISIONS.

- 21. PROVIDE WIRING AND PULL BOXES (AS NECESSARY) TO ALL FUTURE SIGN PANEL POSITIONS AND CAP OFF IN THE CONNECTOR BOX.
- 22. WHEN REMOVING PANELS AND/OR ADDING PANELS TO AN EXISTING STRUCTURE: THE COST FOR ADJUSTING EXISTING LUMINAIRES, INCLUDING REPAIR IF NECESSARY, AND ANY OTHER HARDWARE AND COMPONENT PARTS REQUIRED FOR A COMPLETE LUMINAIRE SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE FOR PANEL REMOVAL OR INSTALLATION. REMOVAL OF EXISTING LUMINAIRES SHALL INCLUDE REMOVAL OF MOUNTING BRACKET ARM. INSTALLATION OF NEW LUMINAIRES SHALL INCLUDE NEW MOUNTING BRACKET ARMS.
- 23. 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.
- 24. 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.
- 25. ENERGIZE OVERHEAD SIGN LUMINAIRES WITHIN 24 HOURS OF INSTALLATION.
- 26. BE RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING ROADWAY LIGHTING CONDUIT PRIOR TO INSTALLATION OF ROADWAY
- 27. 3M SCOTCH BRAND VERY HIGH BOND (VHB) ACRYLIC FOAM TAPE NUMBER 4950 OR CFX'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.
- 28. 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.
- 29. 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.
- 30. NEW SIGN PANEL(S) ON EXISTING OVERHEAD STRUCTURES SHALL BE INSTALLED USING NEW HANGERS AND HARDWARE NECESSARY TO SECURE THE PROPOSED SIGN PANEL(S) IN ACCORDANCE WITH FDOT INDEX 700-030.
- 31. EXISTING SIGNS TO BE RELOCATED TO PROPOSED STRUCTURES SHALL BE INSTALLED USING NEW COMPONENT PARTS REQUIRED FOR A COMPLETE SIGN INSTALLATION INCLUDING, BUT NOT LIMITED TO, HANGERS, LUMINAIRES, LUMINARE MOUNTING BRACKET ARMS AND ALL HARDWARE ASSOCIATED WITH EACH COMPONENT.
- 32. NEW SIGN PANELS INSTALLED ON EXISTING POSTS (SINGLE OR MULTI-POST) SHALL BE MOUNTED USING NEW HARDWARE.
- 33. 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 OVERIAY INSTALLATION.
- 34. 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.
- 35. PERMANENT PANELS SHALL NOT BE INSTALLED WITH TEMPORARY FULL OR PARTIAL OVERLAYS. IT IS ACCEPTABLE FOR A PROPOSED SIGN STRUCTURE TO BE INSTALLED WITHOUT SIGNAGE.
- 36. 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. (FOR PROJECTS WITHOUT UTILITY ADJUSTMENT PLANS, THE SECTION ENGINEER SHALL DELETE THE SECOND SENTENCE AND SUPPLY THE LIST OF UTILITY OWNERS AND TELEPHONE NUMBERS.)
- 37. CFX'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
- 38. STRUCTURE NUMBERS XX, XX, AND XX ARE WITHIN THE LIMITS OF A CFX LANDSCAPING PROJECT OR AN EXISTING CFX SPECIAL LANDSCAPED AREA. STRUCTURES MAY BE RELOCATED SLIGHTLY AS DIRECTED BY THE CEI IN ORDER TO MINIMIZE IMPACT TO LANDSCAPE MATERIAL. THE CONTRACTOR SHALL EXERCISE CAUTION THROUGH LANDSCAPING LIMITS DURING ALL PHASES OF CONSTRUCTION ACTIVITY. ANY EXISTING LANDSCAPE MATERIAL DAMAGED DURING THE CONSTRUCTION PROCESS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 39. 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). CFX 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.

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DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
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SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

CENTRAL FLORIDA **EXPRESSWAY** AUTHORITY GENERAL NOTES - SIGNING SHEET 1 OF 2

NO.

- 42. 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 CFX'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 CFX'S APPROVED EQUAL. SCHOOL CROSSING SIGNS (S1-1) AND SUPPLEMENTAL PLAQUES SHALL BE FABRICATED USING 3M DG3 FLUORESCENT YELLOW-GREEN SHEETING OR CFX'S APPROVED EQUAL
- 43. 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.
- 44. 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 CFX'S REPRESENTATIVE. THE CEI, EOR AND CFX'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 CAN 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.
- 45. 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 CFX 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
- 46. BE RESPONSIBLE FOR FILLING OUT THE COLUMN ENTITLED "AS-BUILT STATION" IN THE TABLE ON THE DETAIL SHEET FOR SPECIAL DESIGN MILE POSTS.
- 47. (FOR PROJECTS WITH TOLL PLAZAS) GATORHEAD MOUNTED SIGNS (TYPICALLY PAY TOLL AND WATCH FOR PEDESTRIANS) SHALL NOT EXTEND PAST THE CONCRETE BARRIER FACE. IF THE FACE IS BEVELED, THE PANELS SHALL NOT EXTEND PAST THE BEGINNING OF THE BEVELED EDGE. EACH PANEL SHALL BE MOUNTED FLUSH WITH THE FLAT PORTION OF THE BARRIER FACE. THE CEI SHALL IMMEDIATELY NOTIFY THE EOR AND CFX IF THIS REQUIREMENT IS NOT SATISFIED.
- 48. COLOR PURPLE SHALL BE 3M COMPANY DG3 RETROREFLECTIVE SHEETING 4058FL OR CFX APPROVED EQUAL SEE ADDITIONAL NOTES ON APPLICABLE DETAIL SHEETS.
- 49. SIGN PANEL FABRICATOR SHALL BE AN AUTHORIZED 3M CERTIFIED FABRICATOR. CURRENT CERTIFICATE SHALL BE SUBMITTED TO CEI PRIOR TO FABRICATION. CEI TO FORWARD ALL CERTIFICATES TO CFX'S REPRESENTATIVE FOR APPROVAL. CONTACT 3M AT 800-553-1380 FOR CERTIFICATION DETAILS.
- 50. ALL SIGN PANELS, INCLUDING OVERLAYS, SHALL BE FABRICATED UTILIZING THE "DIGITAL PRINTING" METHOD.
- 51. CEI WILL VERIFY THE TOLL RATES PRIOR TO THE FABRICATION OF ANY TOLL SCHEDULE SIGN.
- 52. THE LINEAR DELINEATION SYSTEM (LDS) SHALL BE 3M SERIES 340 OR CFX APPROVED EQUAL. EACH PANEL SHALL BE 34 INCHES LONG, 6 INCHES WIDE AND SPACED APPROXIMATELY 18 INCHES APART. ANCHOR BOLTS AND BRACKETS SHALL BE USED WHEN ATTACHING LDS PANELS TO BARRIER WALL AND GUARDRAIL RESPECTIVELY. CONTRACTOR SHALL INSTALL THE LDS IN ACCORDANCE WITH 3M REQUIREMENTS AS SPECIFIED IN THE LATEST 3M PRODUCT BULLETIN. CONTACT 1-800-553-1380 FOR ADDITIONAL INFORMATION. (CONSULTANT TO UPDATE CONTACT PER LATEST 3M PRODUCT BULLETIN)
- 53. ADJUST LDS PANEL SPACING SUCH THAT EACH PANEL INSTALLED IS FULLY 34 INCHES LONG AND SPACING IS EQUIDISTANT. THE CEI SHALL APPROVE SPACING PRIOR TO INSTALLATION.
- 54. SHEETING ON THE LDS PANELS SHALL BE 3M DG3 OR CFX APPROVED EQUAL AND COLOR SHALL MATCH ADJACENT EDGE LINE.
- 55. ALONG SR 408 BETWEEN THE INTERCHANGES OF KIRKMAN ROAD AND CHICKASAW TRAIL, SINGLE (INCLUDING WALL AND BRIDGE MOUNT) AND MULTI-POST SIGN ASSEMBLIES (ALL POSTS, POST ATTACHMENT HARDWARE, AND BACK OF SIGN PANELS) SHALL BE PAINTED BLACK. THE BLACK PAINT SHALL BE SEMI-GLOSS "THERMOSET POWDER PAINT FINISH". FEDERAL COLOR #27038. THE BACK OF PANEL DECAL CONTAINING OWNER AND FABRICATION INFORMATION SHALL BE APPLIED AFTER THE PAINTING PROCESS IS COMPLETE.
- 56. ALL PARTIAL PANEL OVERLAYS SHALL HAVE THE SHEETING ORIENTED IN THE SAME DIRECTOR AS THE ORIGINAL PANEL.

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SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO

CENTRAL FLORIDA **EXPRESSWAY** AUTHORITY GENERAL NOTES - SIGNING SHEET 2 OF 2

SHFFT NO.

PAVEMENT MARKING GENERAL NOTES

- 1. REFLECTIVE PAVEMENT MARKER ADHESIVE FOR USE ON ASPHALT AND CONCRETE PAVEMENT SHALL BE BITUMINOUS MATERIAL UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
- 2. PROVIDE A TEMPORARY LAYOUT OF ALL TOLL PLAZA RELATED PAVEMENT MARKINGS FOR APPROVAL BY THE CEI PRIOR TO PERMANENT INSTALLATION.
- 3. 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.
- 4. ROADSIDE MOUNTED FLEXIBLE TUBULAR DELINEATORS SHALL BE "SAFE-HIT CORPORATION, TYPE 2 GUIDE POST (48" WITH FLATTENED TOP) OR CFX'S APPROVED EQUAL.
- 5. ROADWAY MOUNTED FLEXIBLE SINGLE UNIT DELINEATORS SHALL BE FLEXSTAKE 48" FLAT, LOW PROFILE SURFACE MOUNT DELINEATORS MODEL HD OR CFX'S APPROVED EQUAL. DELINEATOR ADHESIVE FOR USE ON ASPHALT AND CONCRETE PAVEMENT SHALL BE BITUMINOUS MATERIAL. ENTIRE DELINEATOR BASE SHALL BE ADHERED TO ROADWAY.
- 6. 3M COMPANY STANDARD PREFORMED PATTERNED RETROREFLECTIVE PAVEMENT MARKING TAPE (PPRT), SERIES 380AW IS TO BE SPECIFIED FOR ALL SOLID LANE LINES, EDGE LINES, SKIP STRIPING, "DO NOT STOP" PAVEMENT MESSAGES, AND GORE MARKINGS ON ASPHALT AND CONCRETE PAVEMENT ON FACILITIES WITHIN CFX'S JURISDICTION.
- 7. DO NOT ABUT MULTIPLE STRIPES IN ORDER TO MEET THE SPECIFIED WIDTH (I.E. THREE 6" STRIPES TO MAKE ONE 18" STRIPE, FTC.).
- 8. 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 CFX 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.
- 9. PROPOSED 12" WHITE/BLACK ALTERNATING 3'-3'-9' 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.
- 10. 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

IT IS THE EOR'S RESPONSIBILITY TO UPDATE AND/OR COMPLETE ALL PAY ITEM NUMBERS (I.E., 700-4X-XXXD) AND STRUCTURE NUMBERS (I.E., 0T-X) AS WELL AS ADD AND/OR REVISE NOTES AS APPLICABLE WITHIN CFX'S JURISDICTION.

1. 560-3

EXISTING OVERHEAD SIGN STRUCTURE UPRIGHT PAINTING: REMOVAL AND REINSTALLATION OF EXISTING UPRIGHT ATTACHMENTS AND STRUCTURE IDENTIFICATION NUMBERS SHALL BE CONSIDERED INCIDENTAL TO COST OF UPRIGHT PAINTING.

2. 700-1-XX (WALL MOUNT):

SIGNS ARE SPECIAL DESIGN WALL MOUNTED ASSEMBLIES. COST INCLUDES SIGN, HARDWARE, POST, AND MATERIALS FOR A COMPLETE ASSEMBLY PER STRUCTURAL DETAILS IN PLANS. (TO BE INCLUDED ONLY WHEN CFX REQUIRES A DESIGN OTHER THAN FDOT INDEX 11871)

3. 700-1-XX (RCM, JCT, TRAILBLAZERS):

SIGNS ARE SPECIAL DESIGN SINGLE POST ASSEMBLIES. SEE STRUCTURAL DETAILS IN PLANS.

4. 700-1-XX (FLIP-UP SIGNS):

PANELS ARE PERMANENT FLIP-UP SIGNS AS DETAILED IN THE FDOT TRAFFIC ENGINEERING MANUAL. PAYMENT FOR THE HINGE AND ANY OTHER SPECIAL HARDWARE REQUIRED FOR THE FLIP-UP PANEL SHALL BE CONSIDERED INCIDENTAL TO SIGN ASSEMBLY INSTALLATION.

5. 700-1-XX:

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 ASSEMBLY REMOVAL OR RELOCATION.

6. 700-3-XXX:

SIGN PANEL TO BE MOUNTED FLUSH WITH BRIDGE GIRDER OR PARAPET WALL. SPACERS MAY BE REQUIRED BEHIND THE PANEL SUCH THAT FINAL SIGN FACE IS INSTALLED 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. PAYMENT FOR ALL ADDITIONAL ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE SIGN PANEL.

7. 700-3-8XX:

ALL COSTS FOR REMOVAL OF EXISTING OVERLAYS SHALL BE CONSIDERED INCIDENTAL TO THIS PAY ITEM.

8. 700-3-9XX:

ALL COSTS FOR REMOVAL OF EXISTING OVERLAYS SHALL BE CONSIDERED INCIDENTAL TO THIS PAY ITEM.

9. 700-4-XXX:

SIGN UPRIGHT PAINTING SHALL BE CONSIDERED INCIDENTAL TO COST OF PROPOSED STRUCTURE.

- 10. 700-4-XXX (FOR USE IN PROJECTS CONTAINING TOLL PLAZA APPROACH SIGNS WITH A SINGLE LINE DMS):
 FOR SIGN STRUCTURES OT-X, OT-X, OT-X AND OT-X, PAY ITEM SHALL INCLUDE SPECIAL LUMINAIRE PIPE SUPPORTS FOR THE DMS
 SIGN. PAYMENT FOR THE DMS IS NOT INCLUDED. SEE ITS PLANS FOR ADDITIONAL DETAILS.
- 11. 700-10-XXX (MULTI-LINE DMS): SEE ITS PLANS FOR DETAILS.
- 12. 705-11B

3M LINEAR DELINEATION SYSTEM OR CFX APPROVED EQUAL. SEE PAVEMENT MARKING GENERAL NOTES FOR DETAILS.

13. 706-3:

RAISED PAVEMENT MARKERS (RPMS) ARE TO BE 3M COMPANY SERIES 290 OR CFX APPROVED EQUAL.

14. 711-1A-XXX

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 CFX'S DIRECTOR OF CONSTRUCTION AND THE CEI. COST OF THE INITIAL PAINT APPLICATION SHALL BE INCIDENTAL TO THE THERMOPLASTIC PAY ITEM.

15. 713-1AA-BCD:

PREFORMED TAPE SHALL BE 3M COMPANY 380AW OR CFX APPROVED EQUAL. SEE GENERAL NOTES.

16. 715-11-XXX:

ROAD NO.

PAYMENT SHALL BE INCIDENTAL TO COST OF STRUCTURE. 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. 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.

- 17. IN ADDITION TO CFX SPECIFICATION 104-5, PAYMENT FOR ALL EROSION CONTROL WORK AND MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT COST OF THE SIGN ASSEMBLY.
- 18. REMOVAL OF HARDWARE, LIGHTING, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF SIGN PANEL REMOVAL.

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SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

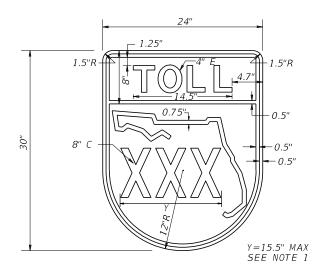
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GENERAL NOTES -MARKINGS / PAY ITEM NOTES SHEET NO.

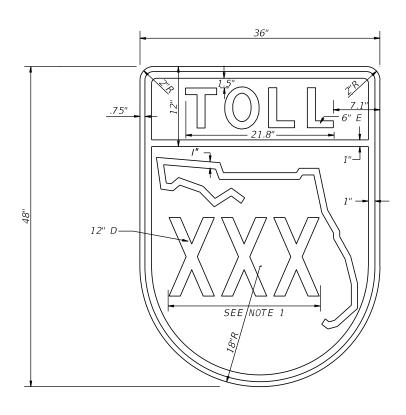
4

3:51:07 PM W:\50088189\CFX Design Guidelines\

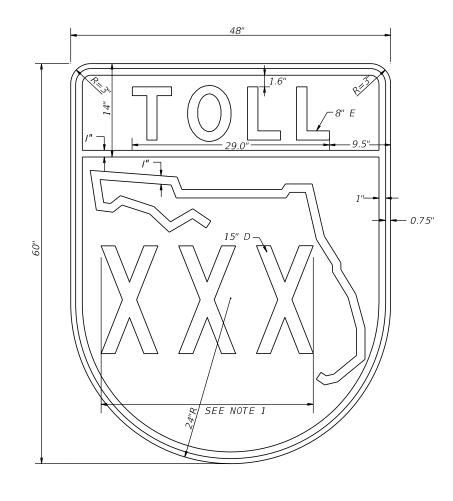
- 1. DELETE ALL INFORMATION NOT SPECIFIC TO PROJECT.
- 2. DELETE "FOR USE ON" NOTES AND BOX UNDER TOLL SHIELDS.



FOR USE ON: 1. MINOR CROSSROAD (2 LANE) ROUTE MARKERS.



- 1. MAINLINE LARGE MULTI-POST GUIDE SIGNS
 2. ALL MAJOR CROSSROAD GUIDE SIGNING (OVERHEAD AND MULTI-POST)
 3. ALL MAJOR CROSSROAD ROUTE MARKERS
- 4. TOLL BUILDINGS



FOR USE ON:

- 1. MAINLINE OVERHEAD GUIDE SIGNS.
- MAINLINE ROUTE CONFIRMATION MARKERS.

1. 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

	REVIS	SIONS		ΕI
DATE	DESCRIPTION	DATE	DESCRIPTION	Ρ.
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				ΕI
				FI
	1	1	1	

ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TOLL ROUTE SHIELD DIMENSIONS

SHEET NO.

SIGNS ALONG INTERCHANGING CROSSROADS, TRAILBLAZER ASSEMBLIES ON FACILITIES LEADING TO THE INTERCHANGING CROSSROAD

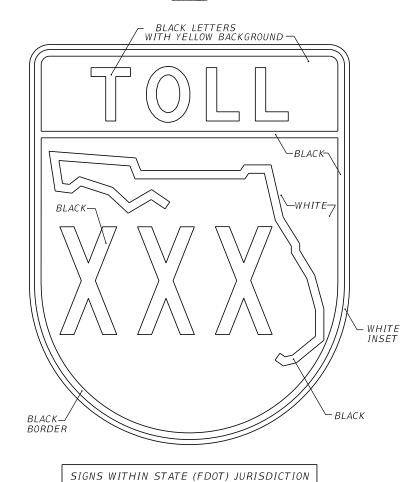
NOTES:

- 1. COLORS INDICATED ON SHIELD ARE APPLICABLE TO ALL SIZES.
- 2. SHOP DRAWINGS ARE REQUIRED.
- 3. COLORS: BLACKWHITE

ORANGE, 3M COMPANY EC FILM SERIES 1174 OR CFX APPROVED EQUAL.

4. FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM 1170 CLEAR ON CFX 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.





NOTES TO CONSULTANT:

- 1. DELETE ALL INFORMATION NOT SPECIFIC TO PROJECT.
- 2. DELETE BOXES WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

	REVIS	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND ZIP
				CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

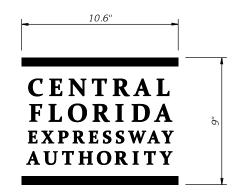
PROJECT NO.

ROAD NO.

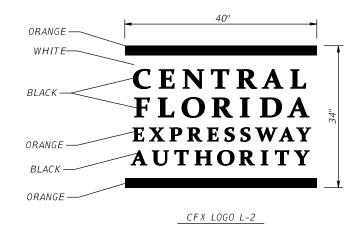
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

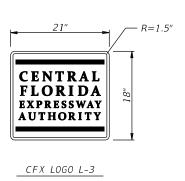
TOLL ROUTE SHIELD (TM, TM-ALT)

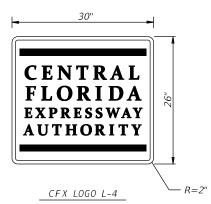
SHEET NO.

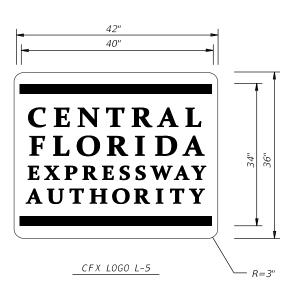


CFX LOGO L-1









LOGO NOTES

- 1. CONTRACTOR TO BE GIVEN A COMPUTER DISK OF EACH CFX LOGO FOR USE IN SIGN FABRICATION UPON REQUEST.
- 2. COLORS:

BLACK

WHITE

ORANGE, 3M COMPANY EC FILM NO. 1174 OR CFX APPROVED EQUAL

- 3. LOGO L-1: TOLL PLAZA PARKING LOT SIGNS.
- 4. LOGO L-2: BEGIN/END SYSTEM SIGNS.
- 5. LOGO L-3: CROSSROAD JUNCTION ASSEMBLY WITH 24" x 30" TOLL SHIELD.
- 6. LOGO L-4: BRIDGE MOUNTED (ROADWAYS CROSSING UNDER THE MAINLINE) AND CROSSROAD JUNCTION ASSEMBLY WITH 36" x 48" TOLL SHIELD.
- 7. LOGO L-5: MAINLINE POST ROUTE CONFIRMATION MARKERS, SINGLE PANEL DESIGN.
- 8. LOGOS L-3 AND L-4 (DIMENSIONS IN INCHES):

 $BORDER\ COLOR\ =\ BLACK$

 $BORDER\ WIDTH = 0.625$

 $BORDER\ INSET = 0.375$

- 9. LOGOS L-1 AND L-2 SHALL NOT HAVE A BORDER.
- 10. SHOP DRAWINGS ARE REQUIRED.
- 11. FABICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM 1170 CLEAR ON CFX 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.

NOTES TO CONSULTANT:

- 1. DELETE ALL INFORMATION NOT SPECIFIC TO PROJECT.
- 2. DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

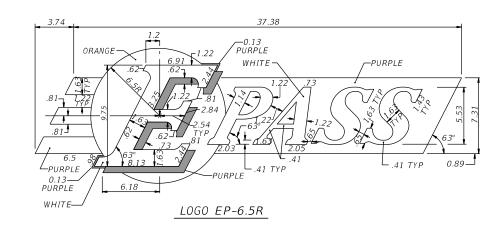
	REVI	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND
				CERTIFICATE OF AUTHORIZATION 000099

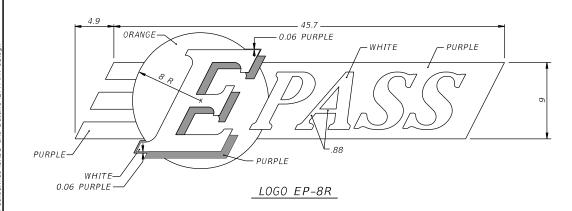
SIGNING AND PAVEMENT MARKING DETAILS ROAD NO. PROJECT NO.

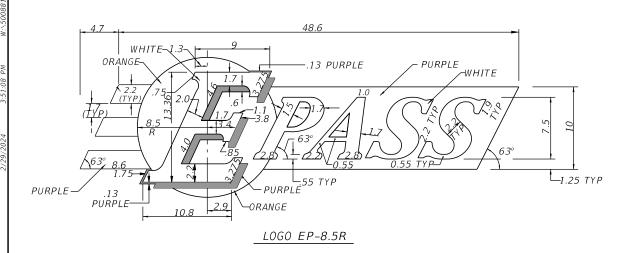
ZIP

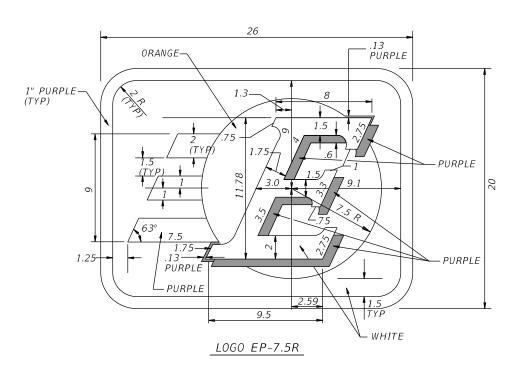
CENTRAL FLORIDA **EXPRESSWAY** AUTHORITY

CFX LOGOS L-1 THRU L-5 SHEET NO.









- DELETE ALL INFORMATION NOT SPECIFIC TO PROJECT.
- DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

EP LOGO NOTES:

1. EPASS LOGO COLORS:

PURPLE: 3M COMPANY DG3 RETROREFLECTIVE SHEETING MATCHING 3M 4058FL OR CFX APPROVED EQUAL.

ORANGE: 3M EC FILM SERIES 1174 OR CFX APPROVED EQUAL.

- 2. FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM 1170 CLEAR ON CFX 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.
- 3. NARROW PORTIONS OF SPECIAL DESIGN COPY IN EPASS LOGOS SHALL HAVE MINIMUM THICKNESS AS FOLLOWS:

EP-6.5R = 0.41	EP-10R = 0.63	EP-12R = 0.75	EP-20R = 1.25
EP-7.5R = 0.75	EP-10.4R = 0.67	EP-12.5R = 0.84	
EP-8R = 0.50	EP-10.8R = 1.10	EP-14R = 0.88	
EP-8.5R = 0.55	EP-11.5R = 0.84	EP-16R = 1.00	

- 4. ALL DIMENSIONS ARE IN INCHES.
- 5. 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.
- 6. DRAWINGS ARE NOT TO SCALE.
- 7. LOGO EP-10.8R IS TO BE MOUNTED TO THE TOP OF EXISTING OVERHEAD GUIDE SIGNS IN A SIMILAR FASHION AS EXIT NUMBER PLAQUES.

	ENGINEER OF REC										
DATE	DATE DESCRIPTION DATE DESCRIPTION										
				P.E. LICENSE NUM ENGINEER OF REG							
				ENGINEER OF REG							
				ENGINEER OF REC							
				CERTIFICATE OF							

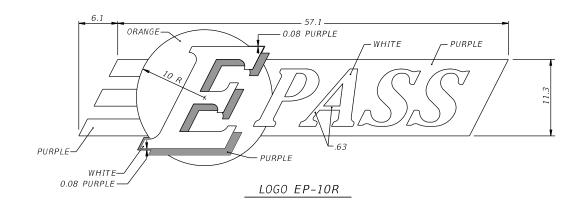
RECORD FULL NAME, P.E. UMBER 99999 RECORD COMPANY NAME RECORD COMPANY STREET RECORD CITY, STATE AND ZIP AUTHORIZATION 00009999

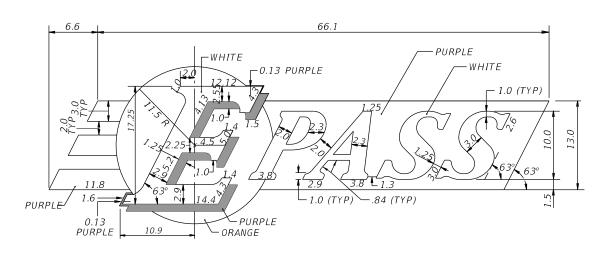
SIGNING AND PAVEMENT MARKING DETAILS ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

EPASS LOGOS

SHEET NO.





LOGO EP-11.5R

ORANGE — 1.8 PURPLE

1.5" PURPLE

1.5" WHITE

(TYP)

1.4

1.4

1.4

1.4

1.4

1.5

1.5

PURPLE

NOTES TO CONSULTANT:

- 1. DELETE ALL INFORMATION NOT SPECIFIC TO PROJECT.
- 2. NOTES ON SHEET 8 APPLIES TO ALL EPASS LOGOS.
- 3. ALL EPASS LOGOS AND NOTES APPLICABLE TO PROJECT SHOULD BE COMBINED ONTO ONE SHEET WHEN POSSIBLE.
- 4. DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

`			
	REV.	ENGINEER OF RECORD FULL NAME, P.E.	
DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999	
			ENGINEER OF RECORD COMPANY NAME
			ENGINEER OF RECORD COMPANY STREET
			ENGINEER OF RECORD CITY, STATE AND ZIP
			CERTIFICATE OF AUTHORIZATION 00009999

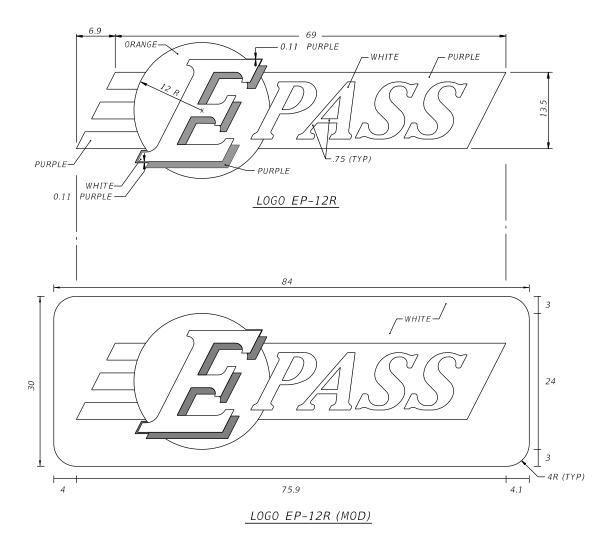
SIGNING AND PAVEMENT
MARKING DETAILS

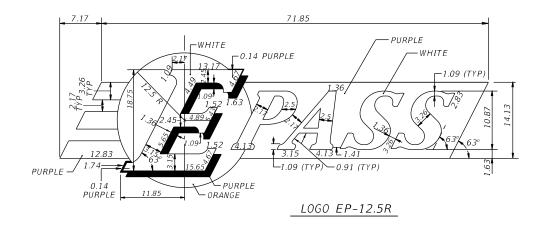
ROAD NO. PROJECT NO.

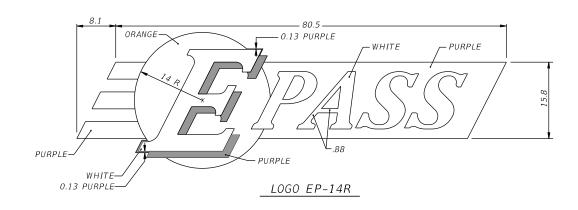
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

EPASS LOGOS

SHEET NO.







- 1. DELETE ALL INFORMATION NOT SPECIFIC TO PROJECT.
- 2. NOTES ON SHEET 8 APPLIES TO ALL EPASS LOGOS.
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- 4. DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

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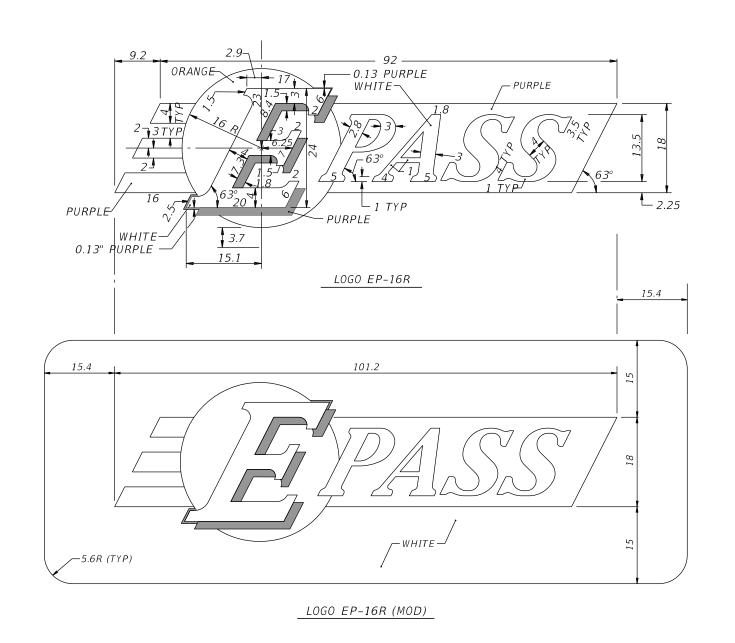
SIGNING AND PAVEMENT
MARKING DETAILS

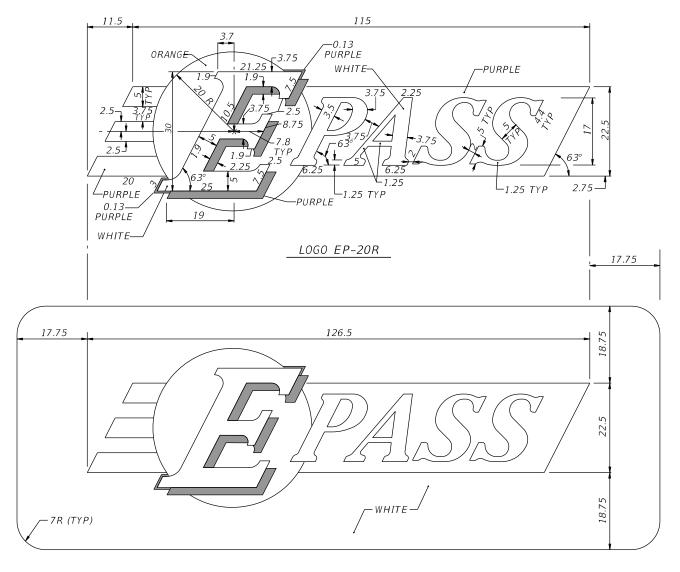
ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

EPASS LOGOS

SHEET NO.





LOGO EP-20R (MOD)

NOTES TO CONSULTANT:

- 1. DELETE ALL INFORMATION NOT SPECIFIC TO PROJECT.
- 2. NOTES ON SHEET 8 APPLIES TO ALL EPASS LOGOS.
- 3. ALL EPASS LOGOS AND NOTES APPLICABLE TO PROJECT SHOULD BE COMBINED ONTO ONE SHEET WHEN POSSIBLE.
- 4. DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

	REVIS	SIONS		ENGINEER OF RECORD FULL NAME, P.E.
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND ZIP
				CERTIFICATE OF AUTHORIZATION 00009999

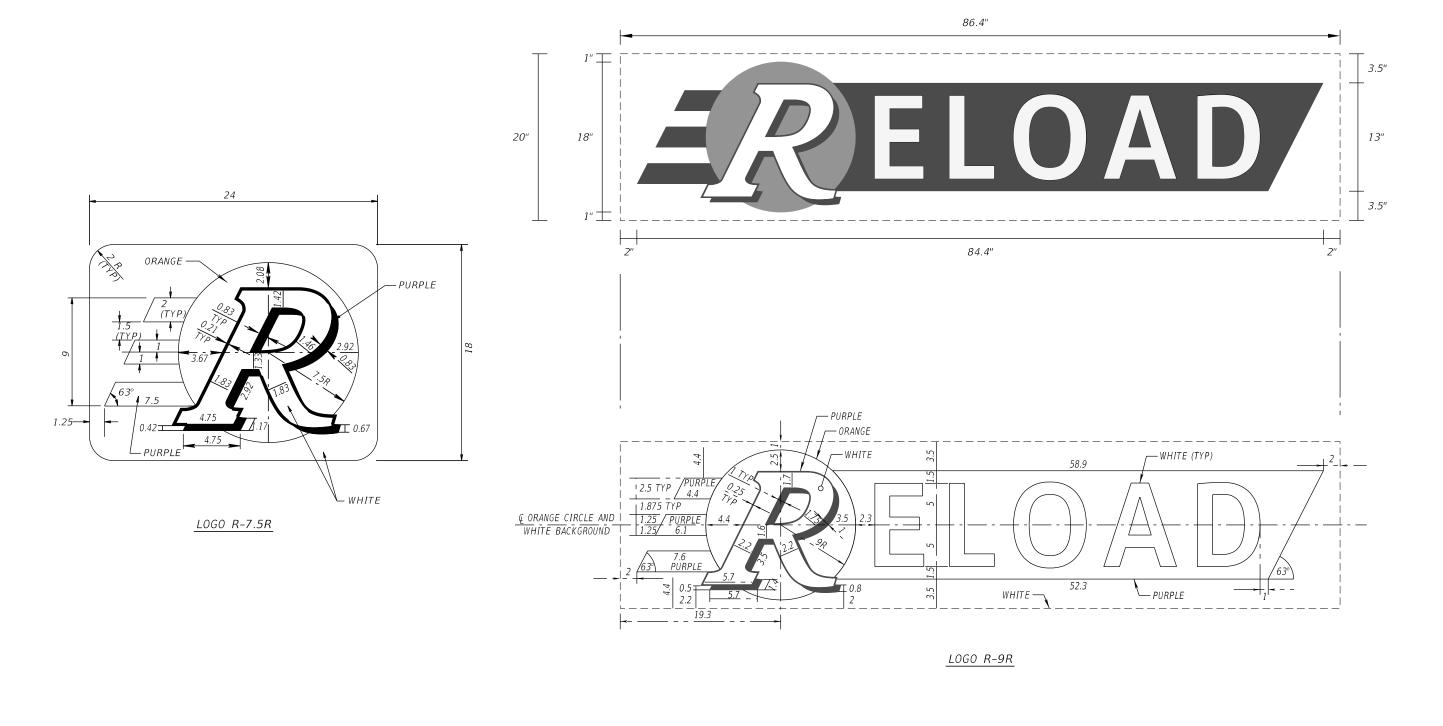
SIGNING AND PAVEMENT
MARKING DETAILS

ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

EPASS LOGOS

SHEET NO.



DATE

REVISIONS

DATE

DESCRIPTION

ENGINEER OF RECORD FULL NAME, P.E.

P.E. LICENSE NUMBER 99999

ENGINEER OF RECORD COMPANY NAME
ENGINEER OF RECORD COMPANY STREET
ENGINEER OF RECORD CITY, STATE AND ZIP
CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

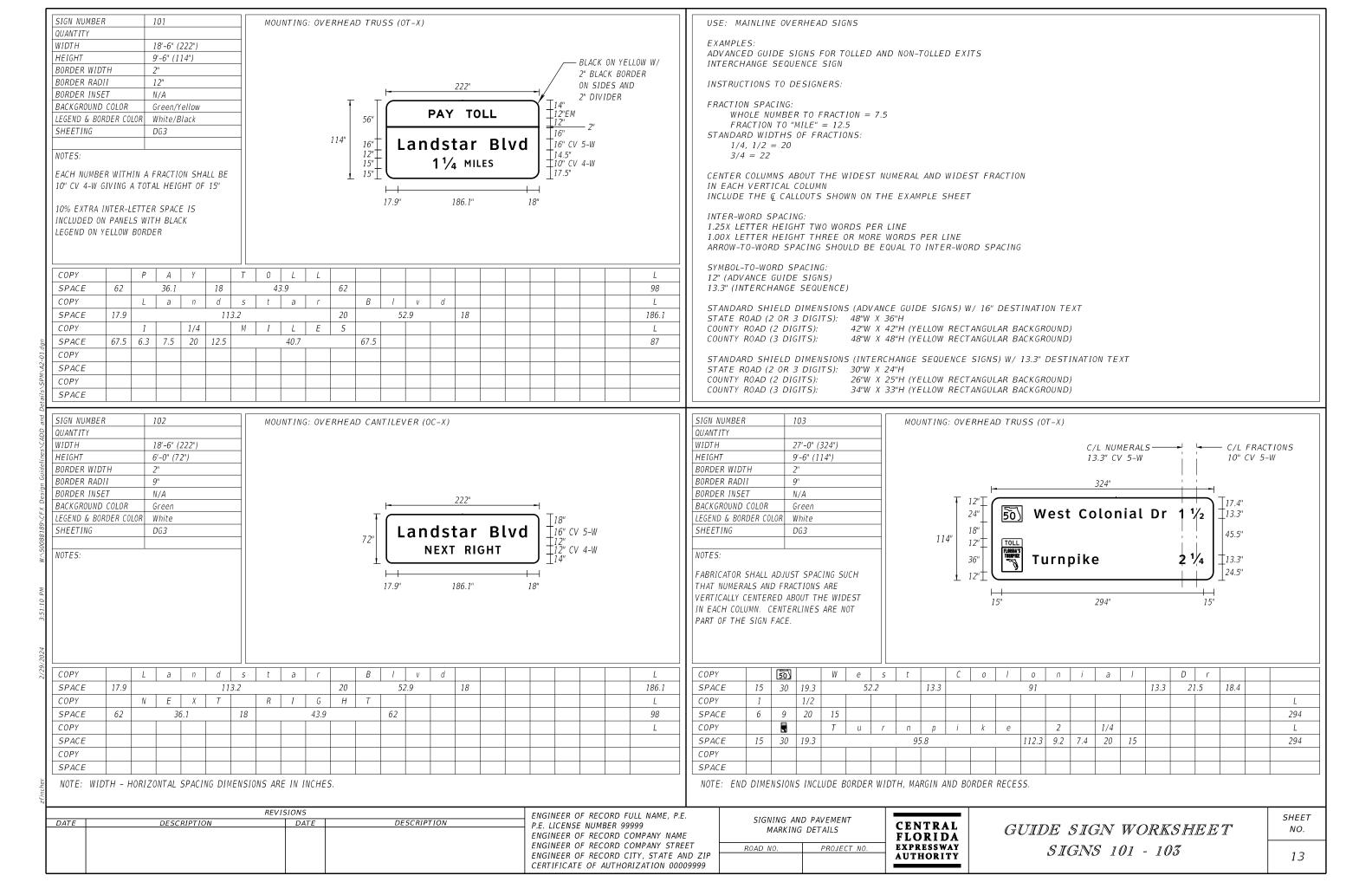
PROJECT NO.

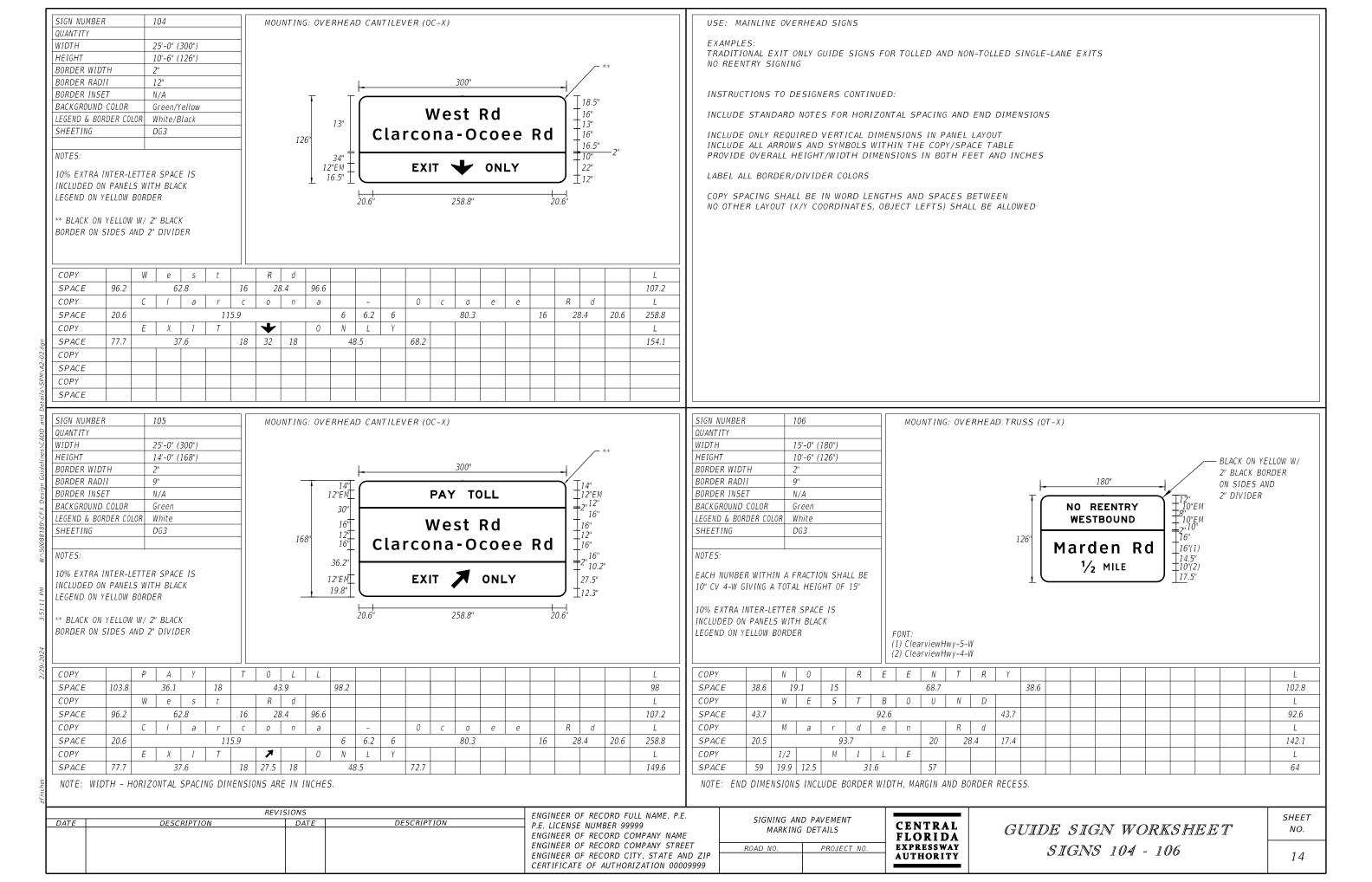
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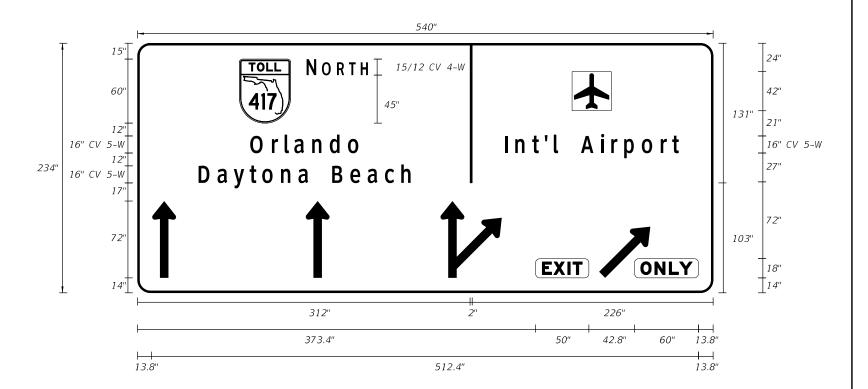
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

RELOAD LOGOS

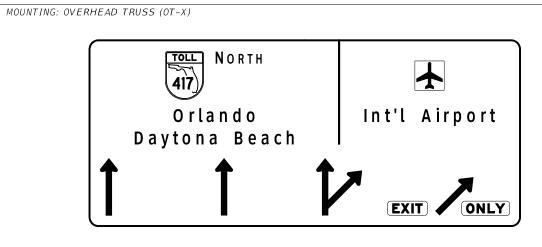
SHEET NO.





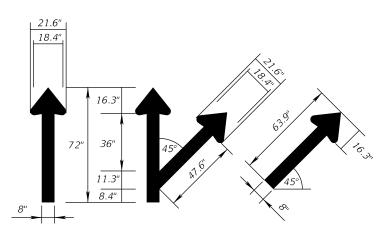


SIGN NUMBER	107
QUANTITY	
WIDTH	45'-0" (540")
HEIGHT	19'-6" (234")
BORDER WIDTH	2"
BORDER RADII	12"
BORDER INSET	N/A
BACKGROUND COLOR	Green
LEGEND/BORDER COLOR	White
SHEETING	DG3

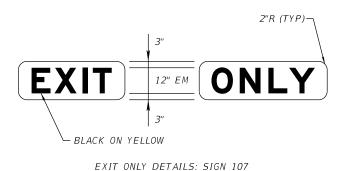


COPY		**		N	0	R	T	Н																		L
SPACE	94.9	48	15			61.2			92.9	2	91	42	93													352.1
COPY		0	r	1	а	n	d	0				I	n	t	'	1		Α	i	r	р	0	r	t		L
SPACE	104.9				104.2		•	•	102.9	2	29.8			51.2			20		•		93.1			•	31.9	403.2
COPY		D	а	У	t	0	n	а		В	е	а	С	h												L
SPACE	56.2				105.3				20			76.2			54.3	2	226									257.8
COPY		1		1		1																				L
SPACE	13.8	21.6	122.4	21.6	104.6	57.2	91.4	48	59.4																	466.8
COPY		Ε	X	I	T		0	Ν	L	Υ																L
SPACE	379.6		37	7.6		54.7		48	3.5		19.6															140.8

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



ARROW DETAIL: SIGN 107



NOTE: 10% EXTRA INTER-LETTER SPACING WAS INCLUDED IN THE DESIGN OF THIS PANEL FOR NEGATIVE CONTRAST COPY (BLACK LEGEND ON YELLOW BACKGROUND)

REVISIONS

ATE DESCRIPTION

DATE DESCRIPTION

DESCRIPTION

DESCRIPTION

P.E. LICENSE NUMBER 99999

ENGINEER OF RECORD COMPANY NAME
ENGINEER OF RECORD COMPANY STREET
ENGINEER OF RECORD CITY, STATE AND ZIP
CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT
MARKING DETAILS

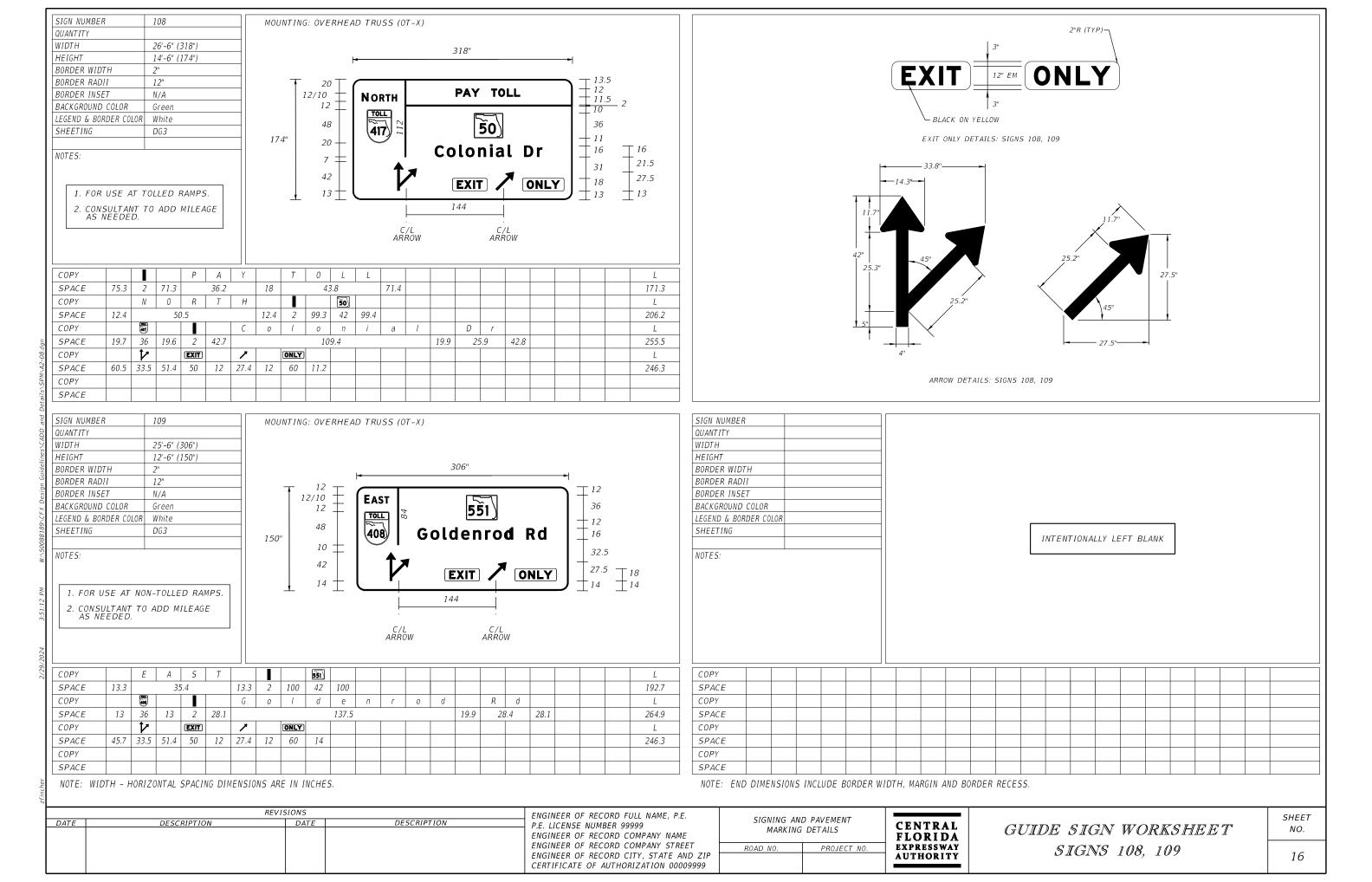
ROAD NO. PROJECT NO.

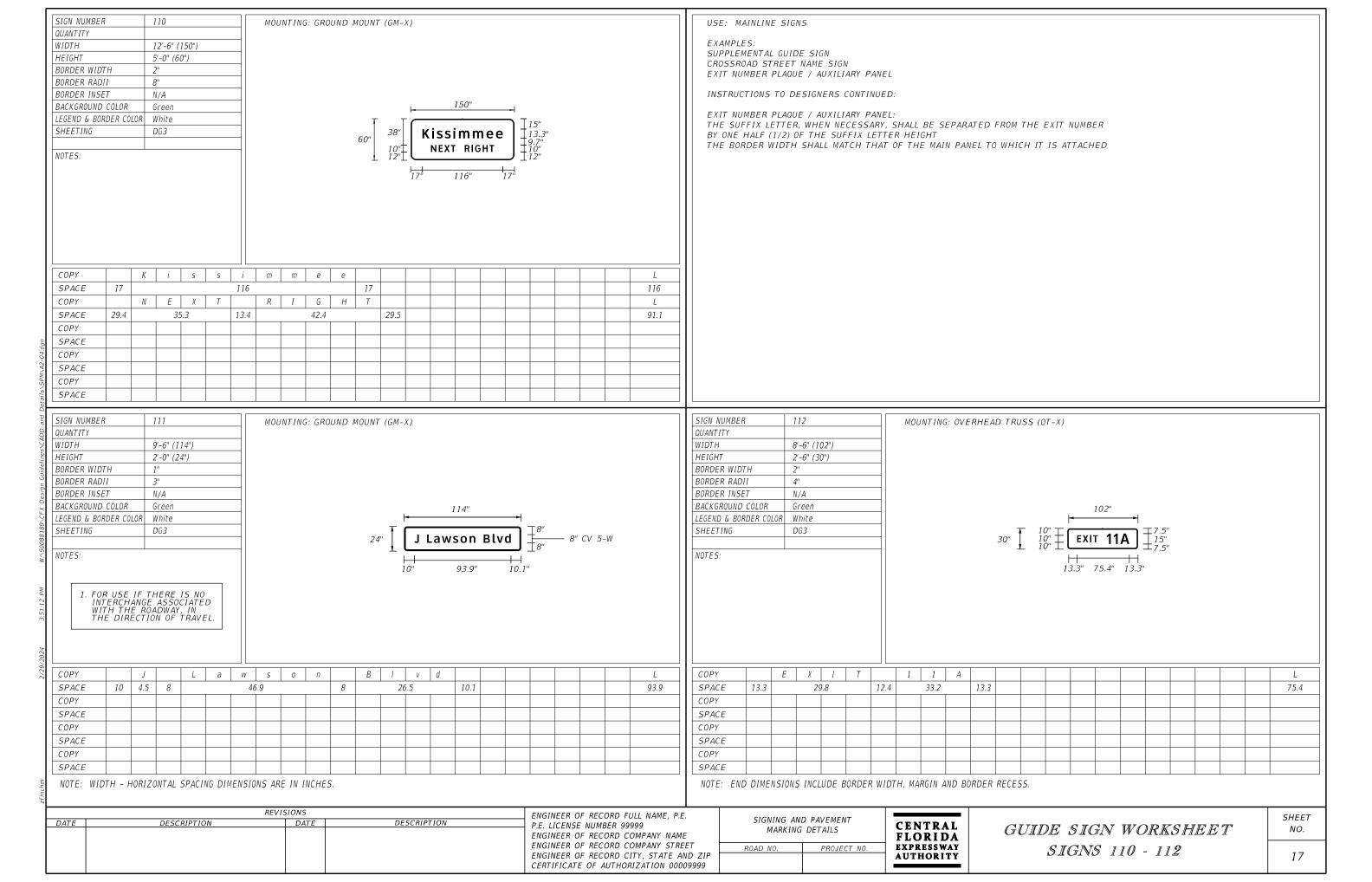
EXPRI

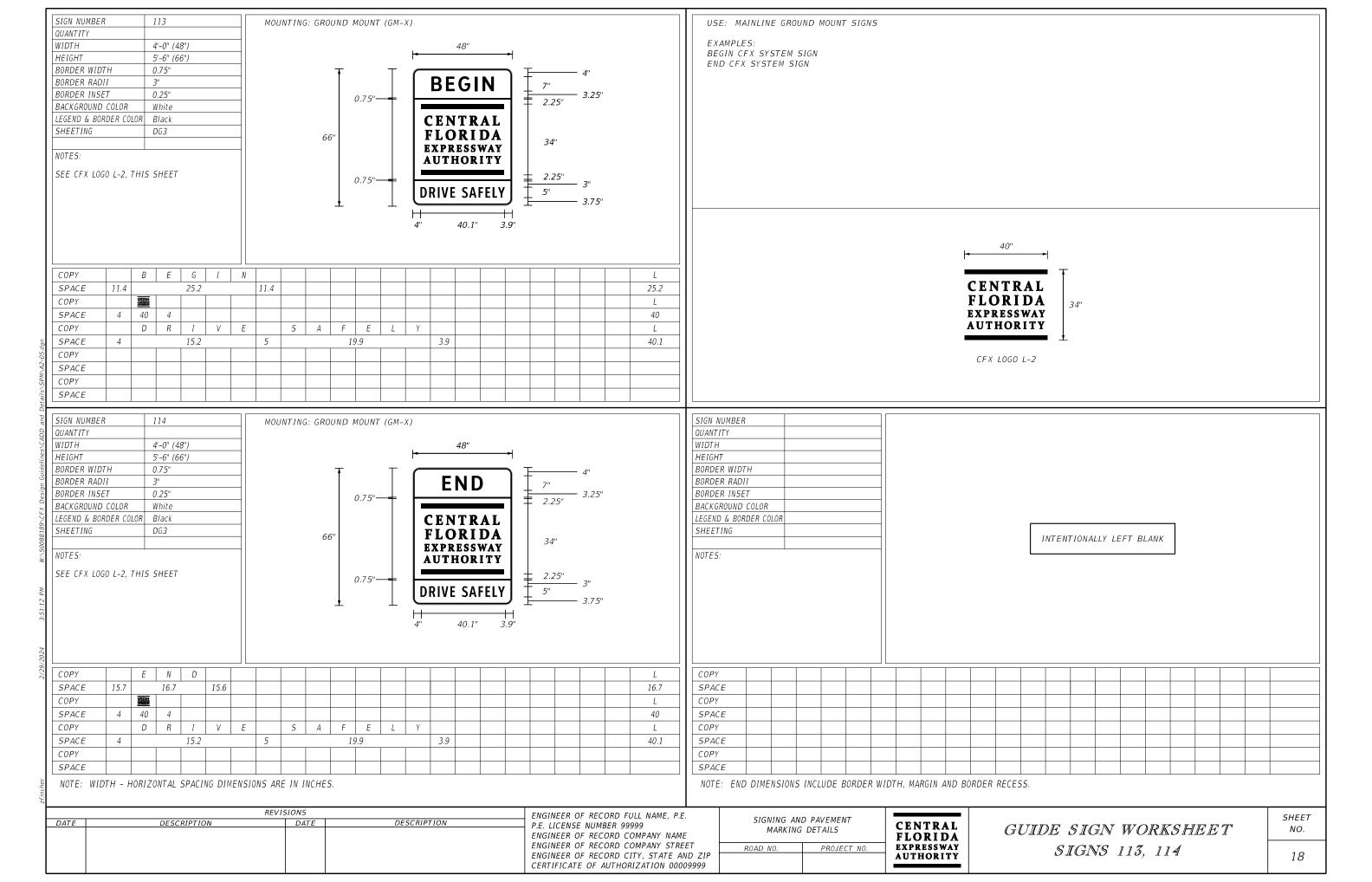
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

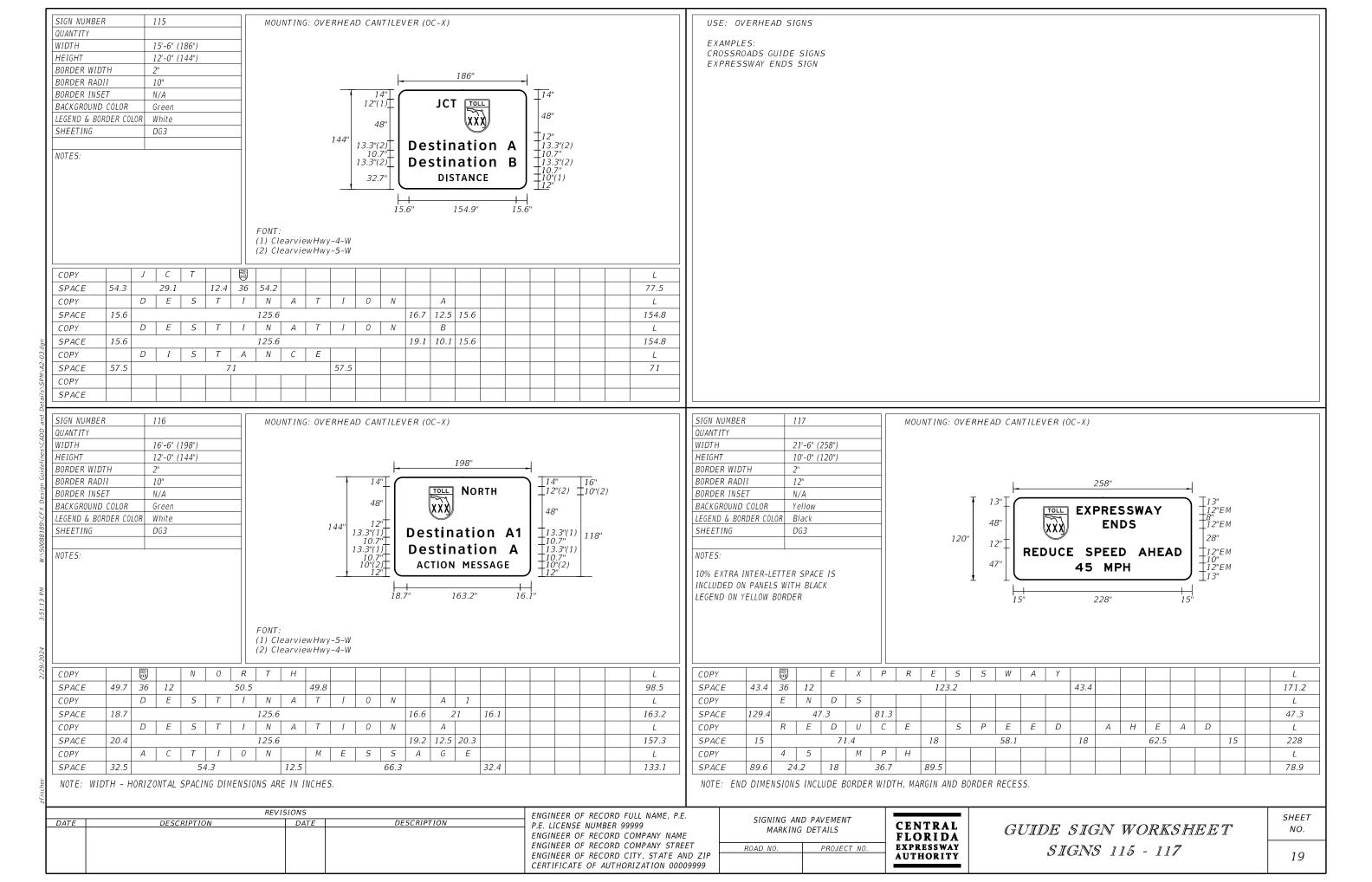
GUIDE SIGN WORKSHEET
SIGN 107

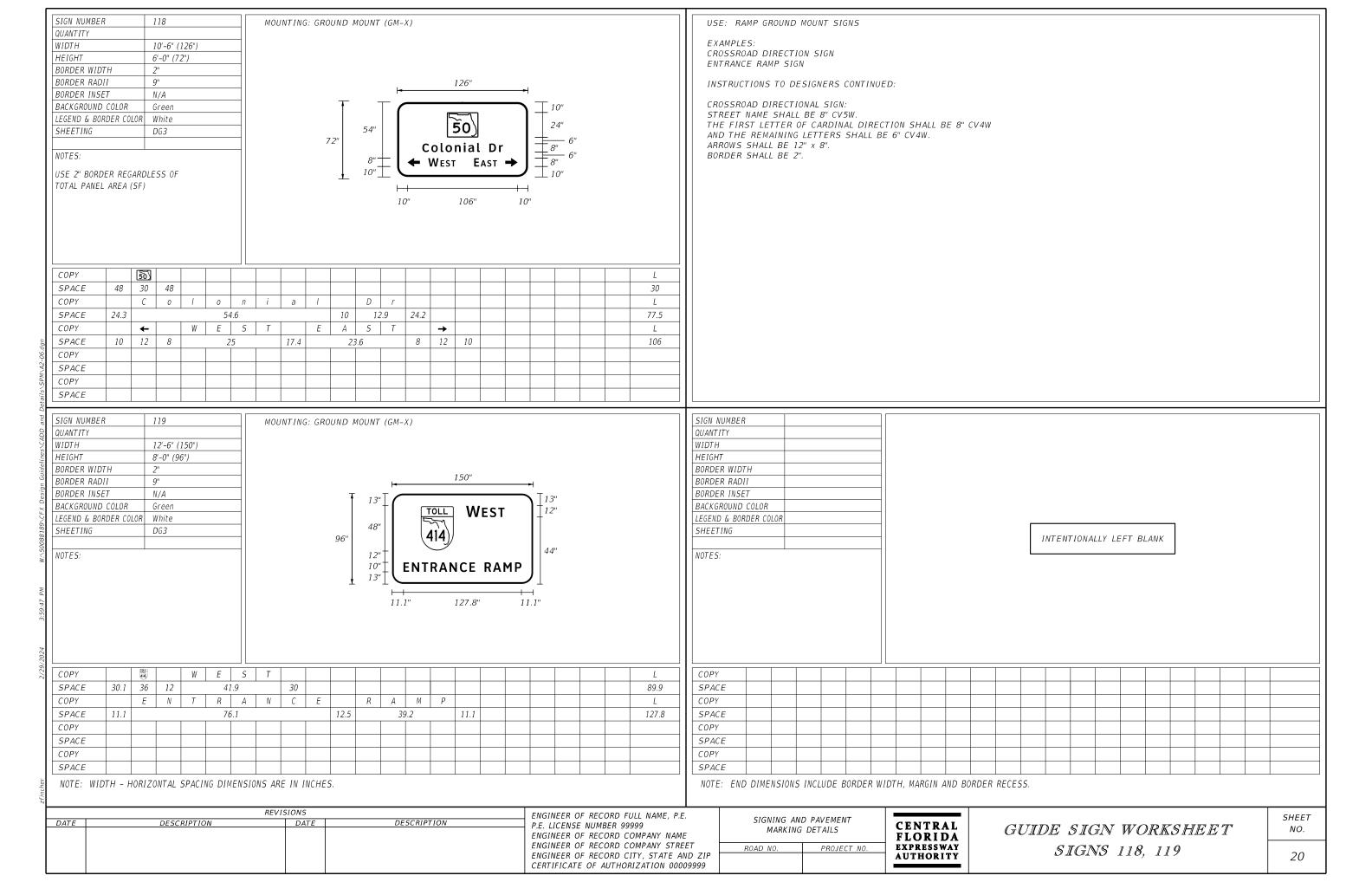
SHEET NO.

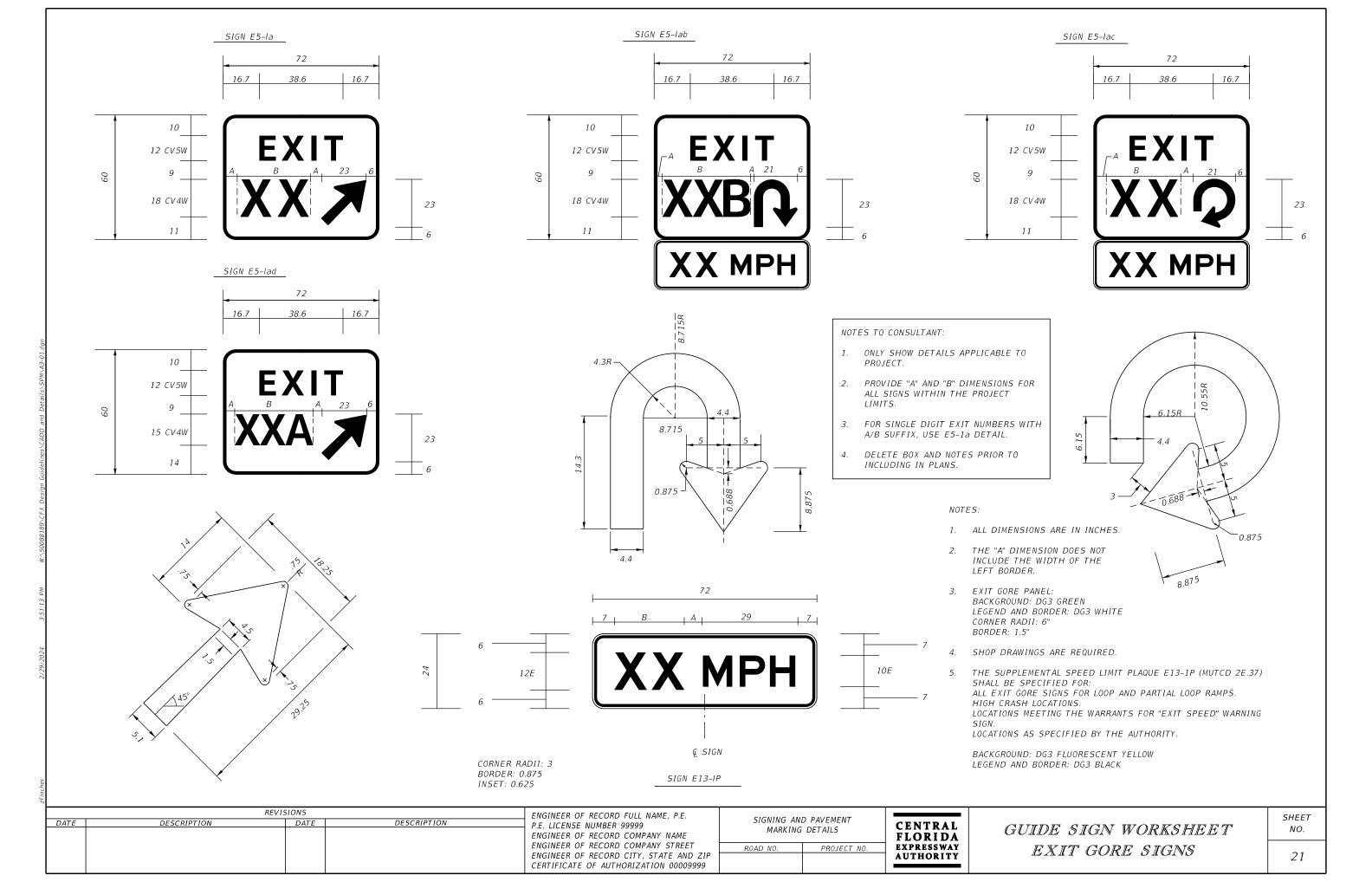


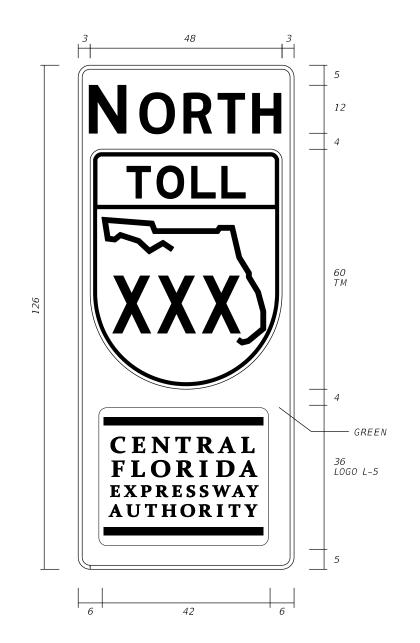












	COPY SPACIN	SIZE/SERIES	
	WEST		12/10 CV4W
6.1	41.9	6	
	EAST		12/10 CV4W
9.3	35.4	9.3	
	NORTH		12/10 CV3W
4.0	46	4.0	
	SOUTH		12/10 CV3W
4.5	45	4.5	

- 1. INSERT CORRECT ROUTE NUMBER.
- 2. INSERT PROJECT SPECIFIC SIGN NUMBERS.
- DATA APPLICABLE TO PROJECT.

	COPY SPACIN	G	SIZE/SERIES
	WEST		12/10 CV4W
6.1	41.9	6	
	EAST		12/10 CV4W
9.3	35.4	9.3	
	NORTH		12/10 CV3W
4.0	46	4.0	
	SOUTH		12/10 CV3W
4.5	45	4.5	

- 3. ONLY SHOW CARDINAL DIRECTIONS AND
- 4. DELETE THIS BOX AND NOTES PRIOR TO INCLUDING SHEET IN PLANS.

MAIN PANEL:

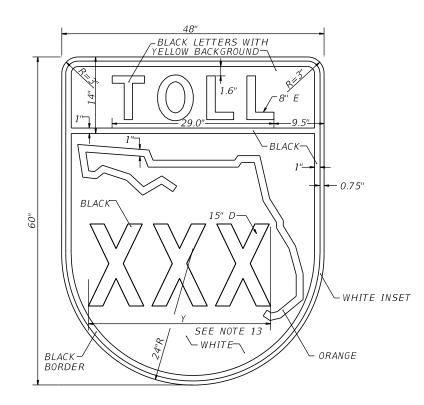
BACKGROUND: GREEN

BORDER: WHITE BORDER WIDTH: 1" CORNER RADII: 3"

- 2. CARDINAL DIRECTION: WHITE
- MAKE FIRST LETTER OF CARDINAL DIRECTION 20% LARGER MINIMUM. ALL LETTERS ARE BOTTOM JUSTIFIED.
- 4. TOLL SHIELD TM AND LOGO L-5 SPECIAL COLORS:

ORANGE: 3M COMPANY EC FILM NO. 1174 OR CFX APPROVED EQUAL.

- LOGO L-5 SHALL BE CENTERED WITHIN A 42"x36" WHITE RECTANGLE. THE WHITE RECTANGLE 5. SHALL BE USED IN VERTICAL AND HORIZONTAL PANEL DIMENSIONING.
- GRAPHIC FILES FOR THE TOLL SHIELD AND LOGO CAN BE PROVIDED FOR USE IN FABRICATION UPON REQUEST.
- FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM 1170 CLEAR ON THE CFX 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 A 4" X 4" SAMPLE IN ALL COLORS. NO FABRICATION SHALL COMMENCE UNTIL THE SAMPLE HAS BEEN REVIEWED AND WRITTEN ACCEPTANCE RECEIVED FROM
- 10. ONE REPRESENTATIVE SHOP DRAWING PER CARDINAL DIRECTION MAY BE SUBMITTED PROVIDED THE APPROPRIATE QUANTITY IS SHOWN PER DIRECTION.
- 11. FABRICATOR SHALL USE STATE OUTLINE CONFIGURATION SHOWN IN TOLL SHIELD DETAIL.
- 12. FABRICATOR TO REDUCE CARDINAL DIRECTION COPY SPACING AS NEEDED TO MEET SPECIFIED LENGTHS.
- 13. FABICATOR SHALL USE STANDARD HORZIONTAL SPACING FOR NUMERALS IN ROUTE SHIELD WHEN POSSIBLE. FABICATOR SHALL OPTICALLY ADJUST NUMERAL SPACING AS NEEDED TO PREVENT OVERLAP ONTO THE STATE OUTLINE OR SHIELD BORDER.



	REVIS	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND ZIP
				CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT CENTRAL MARKING DETAILS FLORIDA **EXPRESSWAY** PROJECT NO. AUTHORITY

ROAD NO.

SPECIAL DESIGN ROUTE CONFIRMATION MARKERS SHEET NO.

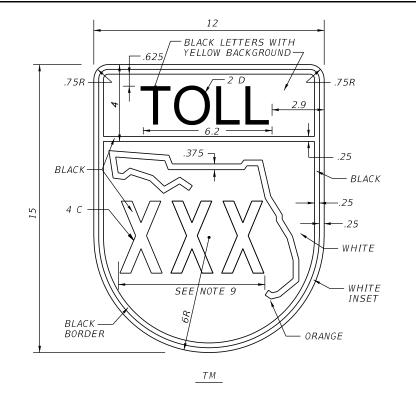
- 1. MAIN PANEL:
 BACKGROUND: GREEN
 LEGEND AND BORDER: WHITE
 BORDER WIDTH: 0.5"
 CORNER RADII: 1.5"
- MAKE FIRST LETTER OF CARDINAL DIRECTION 10% LARGER (AS SHOWN). ALL LETTERS ARE BOTTOM JUSTIFIED.
- 3. TOLL SHIELD COLORS: BLACK

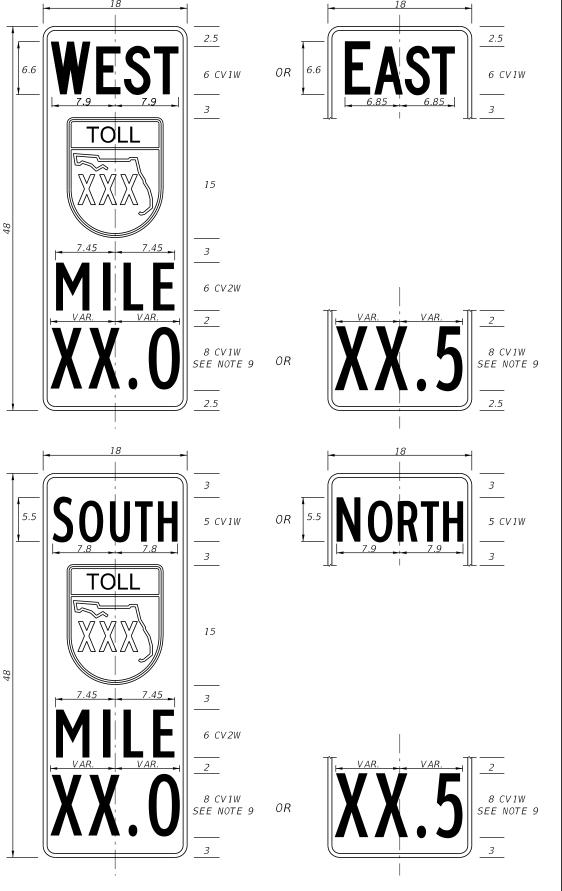
WHITE YELLOW

ORANGE: 3M COMPANY EC FILM NO. 1174 OR CFX APPROVED EQUAL.

- 4. FABRICATOR SHALL APPLY AS THE TOP LAYER, 3M COMPANY EC FILM 1170 CLEAR ON THE CFX 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.
- 5. ALL DIMENSIONS ON SHEET ARE IN INCHES.
- 6. 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 CFX. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- 7. OPTICALLY LOCATE MILEPOST NUMERALS IN BOTH FORMATS (XX.O AND XX.5)
 ABOUT THE CENTERLINE OF PANEL.
- 8. FABRICATOR TO ADJUST HORIZONTAL SPACING AS NECESSARY TO FIT. DO NOT OVERLAP ONTO STATE OUTLINE OR SHIELD BORDER.
- 9. DETAILED SHOP DRAWINGS ARE REQUIRED.
- 10. FABRICATOR SHALL USE THE STATE OUTLINE CONFIGURATION SHOWN IN THE TOLL SHIELD DETAIL.

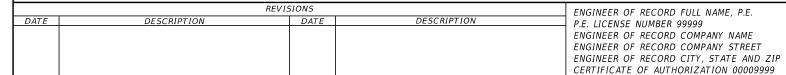
	SR XXX MILEPOSTS								
M.P. NO.	SHLDR	MEDIAN	PROP. STATION	AS-BUILT STATION					
30	Χ	X	502+10						
30.5	Χ	Х	527+00						
31	Х		554+90						





NOTES TO CONSULTANT:

- 1. INFORMATION SHOWN IN TABLE IS FOR EXAMPLE PURPOSES ONLY. CONSULTANT SHALL REVISE AS NEEDED FOR SPECIFIC PROJECT.
- 2. ONLY SHOW INFORMATION RELATIVE TO SPECIFIC PROJECT
- 3. IF THE LOCATION OF A MILEPOST IN ONE DIRECTION OF TRAVEL MUST BE ADJUSTED FROM THE CALCULATED STATION, THE SAME MILEPOST IN THE OPPOSITE DIRECTION SHALL BE ADJUSTED TO MATCH.
- 4. DELETE THIS BOX AND NOTES PRIOR TO INCLUDING SHEET IN PLANS.

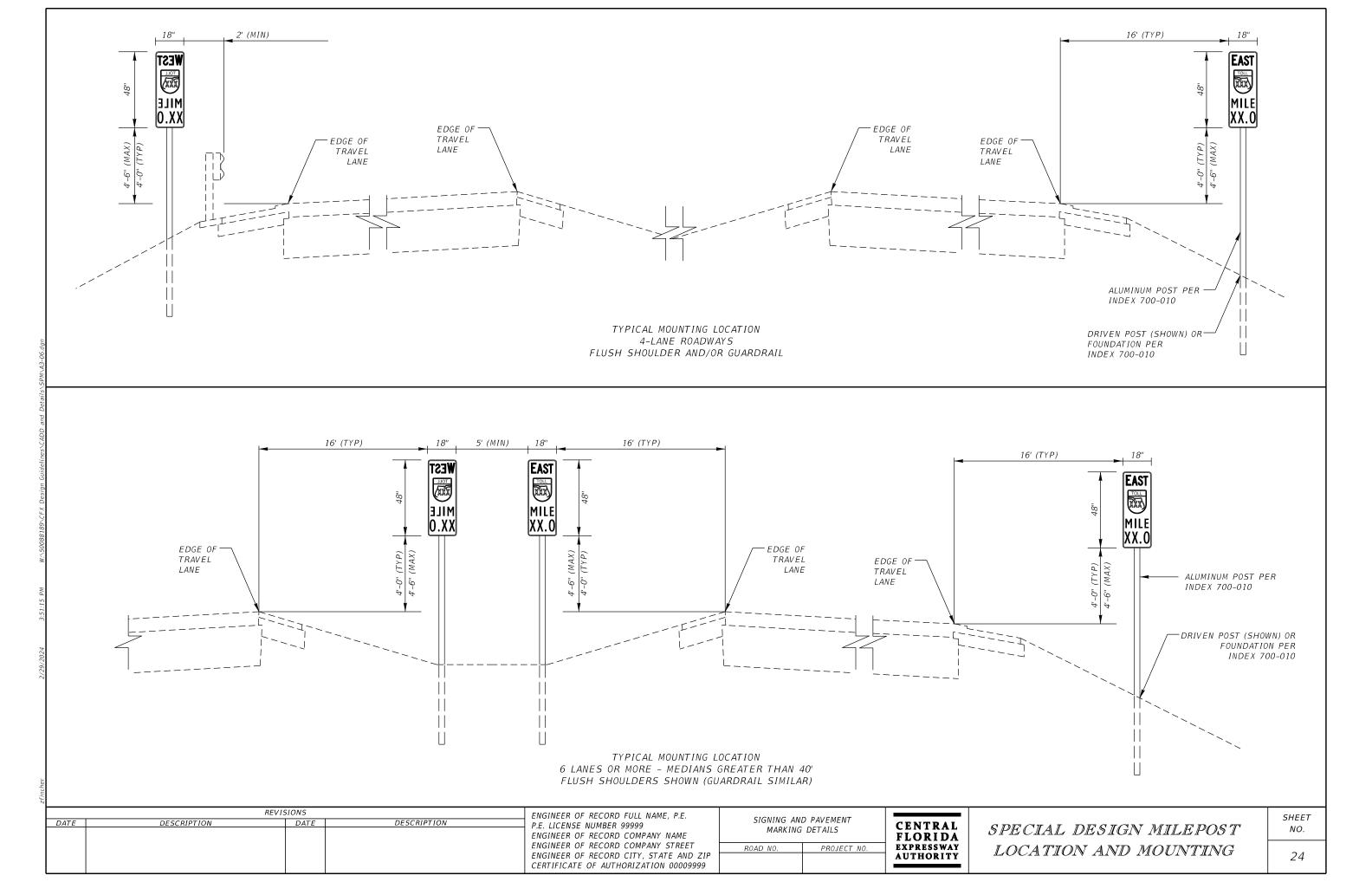


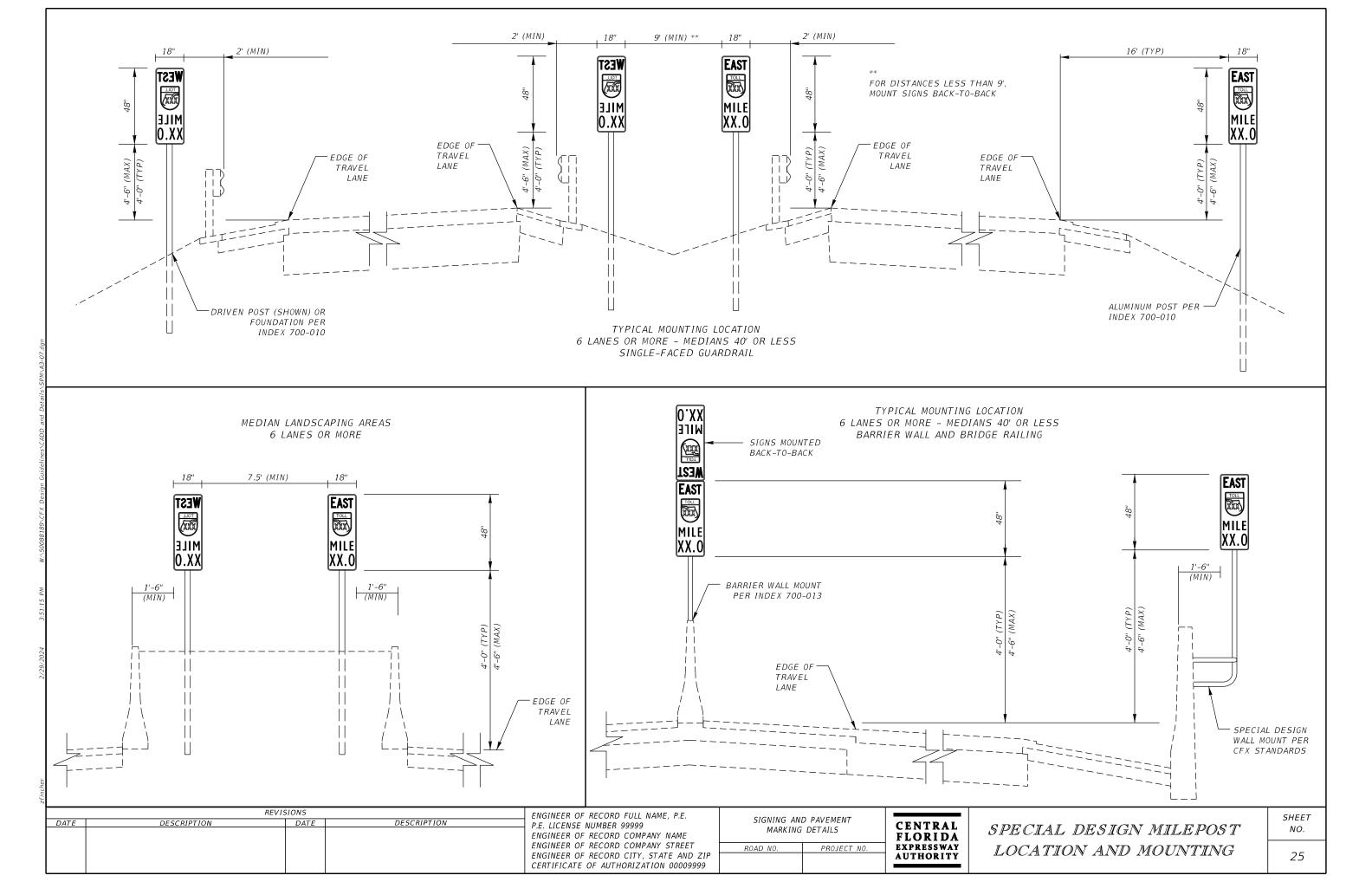
SIGNING AND PAVEMENT MARKING DETAILS

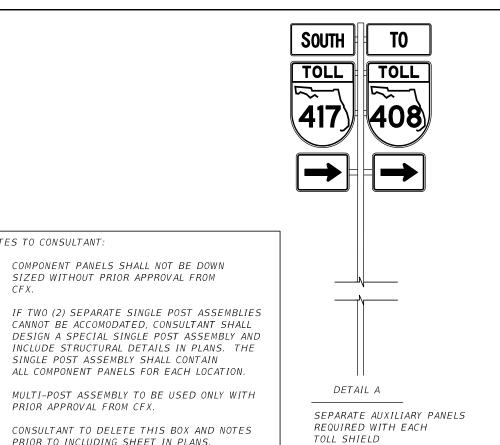
PROJECT NO.

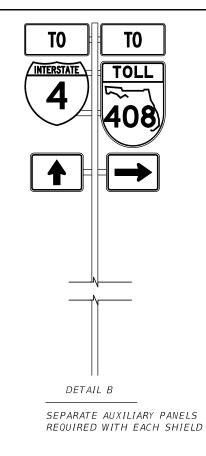
ROAD NO.

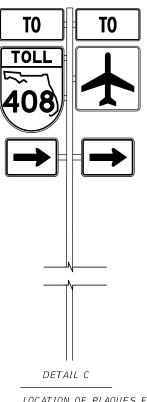
CENTRAL FLORIDA EXPRESSWAY AUTHORITY SPECIAL DESIGN MILEPOST SIGN DETAILS SHEET NO.











LOCATION OF PLAQUES FOR GENERAL SERVICE, GENERAL INFORMATION, ETC

NOTES:

NOTES TO CONSULTANT:

1. COMPONENT PANELS SHALL NOT BE DOWN SIZED WITHOUT PRIOR APPROVAL FROM

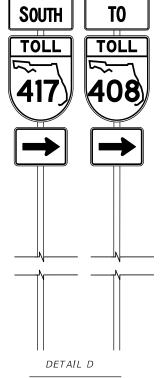
SINGLE POST ASSEMBLY SHALL CONTAIN

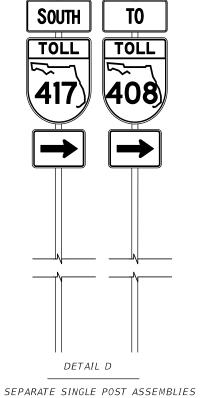
PRIOR TO INCLUDING SHEET IN PLANS.

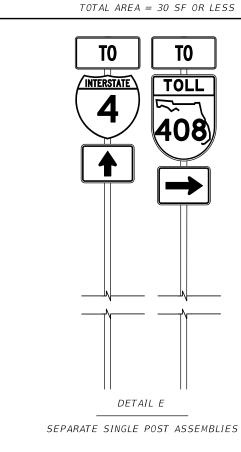
CONTRACTOR TO INSTALL THE TWO (2) SEPARATE SINGLE POST ASSEMBLIES SUCH THAT THE ASSEMBLIES ARE ALIGNED HORIZONTALLY AND ARE NOT STAGGERED.

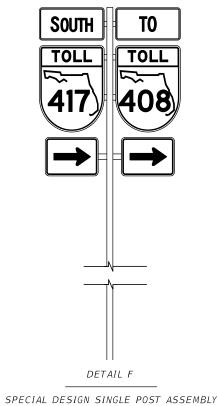
PRIOR APPROVAL FROM CFX.

EACH ASSEMBLY TO BE VERTICALLY









TOTAL AREA = OVER 30 SF

REVISIONS DESCRIPTION

ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

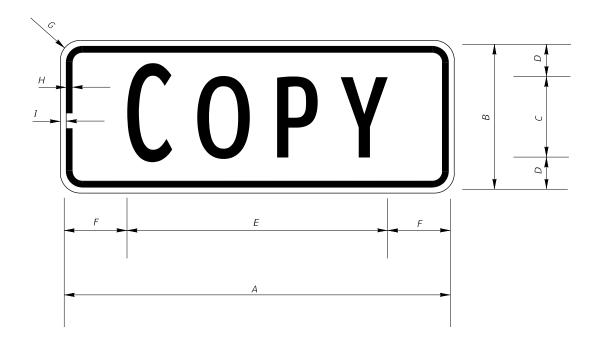
PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TRAILBLAZER MOUNTING **DETAILS**

SHEET NO.



	CODE	COPY	Α	В	С	D	Ε	F	G	Н	I	QTY. REQ'D
	M2-1X	JCT	24	15	9C	3	17.2	3.4	1.5	.625	.375	
	M2-1XX	JCT	36	18	10D	4	23.0	6.5	1.5	.75	.25	
*	M3-1X	NORTH	36	18	9C	4.5	30.0	3.0	1.5	.625	.375	
	M3-1XX	NORTH	48	18	10C	4	34.8	6.6	1.5	.75	.25	
	M3-2X	EAST	36	18	10C	4	25.6	5.2	1.5	.625	.375	
	M3-2XX	EAST	48	18	10D	4	30.8	8.6	1.5	.75	.25	
*	M3-3X	SOUTH	36	18	9C	4.5	30.0	3.0	1.5	.625	.375	
	M3-3XX	SOUTH	48	18	10C	4	34.8	6.6	1.5	.75	.25	
	M3-4X	WEST	36	18	10C	4	27.8	4.1	1.5	.625	.375	
	M3-4XX	WEST	48	18	10D	4	32.4	7.8	1.5	.75	.25	
	M4-5X	TO	36	18	10D	4	14.6	10.7	1.5	.625	.375	
	M4-5XX	TO	48	18	10D	4	14.6	16.7	1.5	.75	.25	

- 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.

NOTES TO CONSULTANT:

- 1. THIS DETAIL IS NOT INCLUSIVE OF ALL POSSIBLE SPECIAL DESIGN AUXILIARY PANELS.
- 2. ONLY INCLUDE PANELS SPECIFIC TO PROJECT.
- 3. THE AUTHORITY PREFERS TO USE ITS OWN DESIGN FOR AUXILIARY PANELS POSITIONED ABOVE A 36" X 46" ROUTE SHIELD. THE 36" X 18" STANDARD DESIGNS AS SHOWN IN THE 2012 SUPPLEMENT TO THE SHSM MAY ONLY BE USED OVER U.S., STATE OR COUNTY ROUTE SHIELDS WHEN THE ASSEMBLY IS BEYOND THE AUTHORITY'S LA ROW LIMITS. IN CASES WHERE AN AUTHORITY TOLL SHIELD IS TO BE INSTALLED ADJACENT TO A U.S., STATE OR COUNTY SHIELD. ALL TOP MOUNTED AUXILIARY PANELS SHALL MATCH THE AUTHORITY'S PREFERRED DESIGN.
- 4. DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

AUXILIARY PANELS:

AUXILIARY PANELS POSITIONED ABOVE THE ROUTE SHIELD (TOLL OR OTHERWISE) SHALL:

- MATCH THE WIDTH OF THE ROUTE SHIELD.
- REQUIRE SPECIAL DETAIL(S) IN THE WORKSHEETS IF REQUIRED SIZE DOES NOT MATCH STANDARDS AS SHOWN IN THE SHSM.
- BE DESIGNATED USING THE NATIONAL CODE WITH AN "X" OR AN "XX" ADDED TO THE END (I.E., M2-1X, M2-1XX, ETC.).

TOP AND BOTTOM AUXILIARY PANEL COLORS SHALL MATCH THE ASSOCIATED ROUTE SHIELD.

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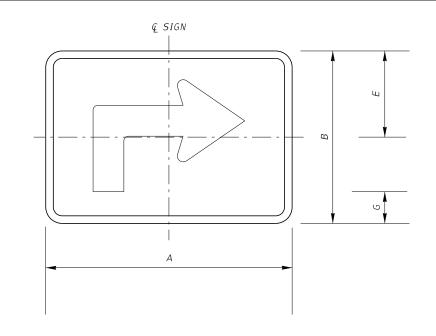
SIGNING AND PAVEMENT MARKING DETAILS

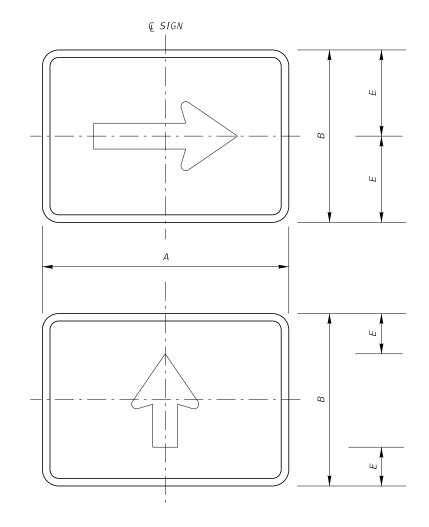
PROJECT NO.

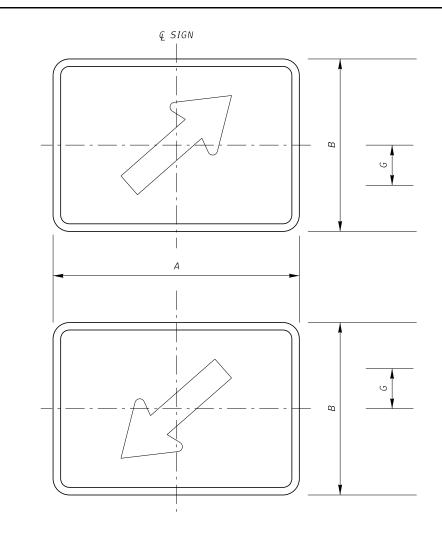
ROAD NO.

CENTRAL FLORIDA **EXPRESSWAY** AUTHORITY

SPECIAL DESIGN AUXILIARY PANELS FOR ROUTE MARKERS SHEET NO.







CODE	COPY	Α	В	E	G	QTY. REQ'D
M5-1X	Advance Turn (90°)	36	24	11.688	4.875	
M5-2X	Advance Turn (45°)	36	24	5.125	4.5	
M6-1X	Directional Arrow	36	24	12		
M6-2X	Directional Arrow (45° Up)	36	24		7.554	
M6-2AX	Directional Arrow (45° Down)	36	24		7.554	
M6-3X	Straight Arrow	36	24	5		
M6-4X	Dual Directional Arrow		24	12		
M6-5X	Dual Directional Arrow (45°/135°)	36	24			
M6-6X	Dual Directional Arrow (Straight/Turn)	36	24	3.875		
M6-7X	Dual Directional Arrow (Straight/45°)	36	24	3.875		

- 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. FABRICATOR SHALL OPTICALLY CENTER (HORIZONTAL AND VERTICAL) THE ARROW WITHIN THE SIGN PANEL
- 5. ALL DIMENSIONS ARE TO MATCH THE DETAILS SHOWN IN THE STANDARD HIGHWAY SIGNS MANUAL UNLESS OTHERWISE SHOWN ON THIS SHEET
- 6. SHOP DRAWINGS ARE REQUIRED.
- 7. ALL AUXILLIARY PANELS SHALL BE 3M COMPANY DIAMOND GRADE CUBED (DG3) REFLECTIVE SHEETING OR CFX APPROVED EQUAL. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

ROAD NO.

NOTES TO CONSULTANT:

- 1. THIS DETAIL IS NOT INCLUSIVE OF ALL POSSIBLE SPECIAL DESIGN AUXILIARY PANELS.
- 2. ONLY INCLUDE PANELS SPECIFIC TO PROJECT.
- 3. DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.
- 4. THIS DETAIL IS FOR USE ONLY WITH 36" WIDE ROUTE SHIELDS

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ENGINEER OF RECORD FULL NAME, P.E.
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ENGINEER OF RECORD CITY, STATE AND ZIP
CERTIFICATE OF AUTHORIZATION 00009999

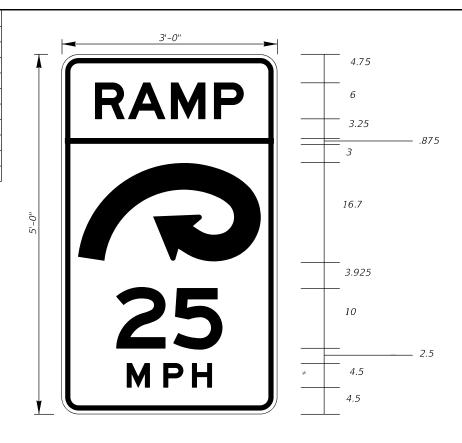
SIGNING AND PAVEMENT MARKING DETAILS

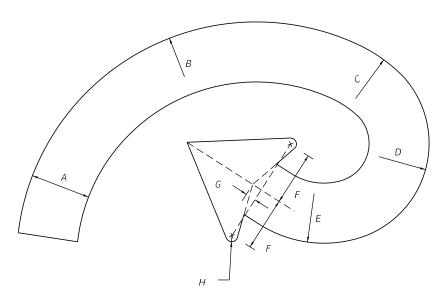
PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY SPECIAL DESIGN AUXILIARY
PANELS FOR ROUTE MARKERS

SHEET NO.

* INCREASE SPACING 100%





SPECIAL ARROW DETAIL

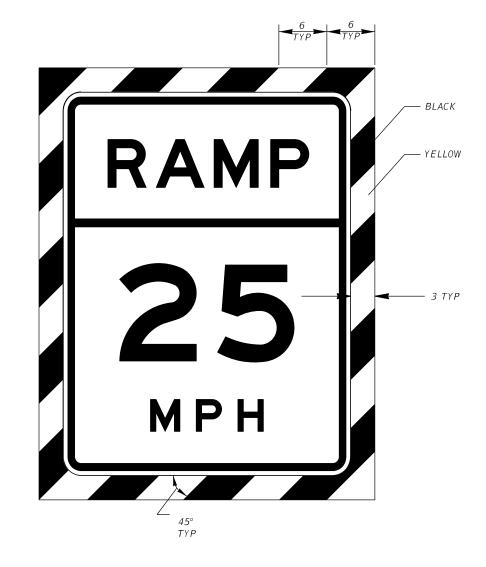
NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. BACKGROUND: DG3 YELLOW LEGEND AND BORDER: DG3 BLACK
- 3. SHOP DRAWINGS ARE REQUIRED.

SIGN NO.	А	В	С	D	Ε	F	G	Н
XX	5	20	13	8.25	10	4.5	.84	.5
XX	4.45	17.78	11.52	7.33	8.89	4	.74	.444

Sign	W13-3
Quantity	
Width	3'-6" (42")
Height	4'-6" (54")
Border Width	N/A
Border Radii	N/A
Border Inset	N/A
Background Color	Yellow
Legend/Border Color	Black
Sheeting	DG3

* INCREASE SPACING 100%



- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. USE STANDARD 36"x48" W13-3 SIGN FACE WITH A 3" WIDE FLUORESCENT CONSPICUITY STRIP ON EACH SIDE.
- 3. CONSPICUITY STRIP SHALL NOT HAVE A BORDER OR CORNER RADII.
- 4. W13-3 AND CONSPICUITY STRIP SHALL BE APPLIED TO A SINGLE SHEET OF ALUMINUM. THE CONSPICUITY STRIP SHALL NOT BE ATTACHED TO A STANDARD W13-3 OR TO A PRE-CUT 36x48" SIGN BLANK.

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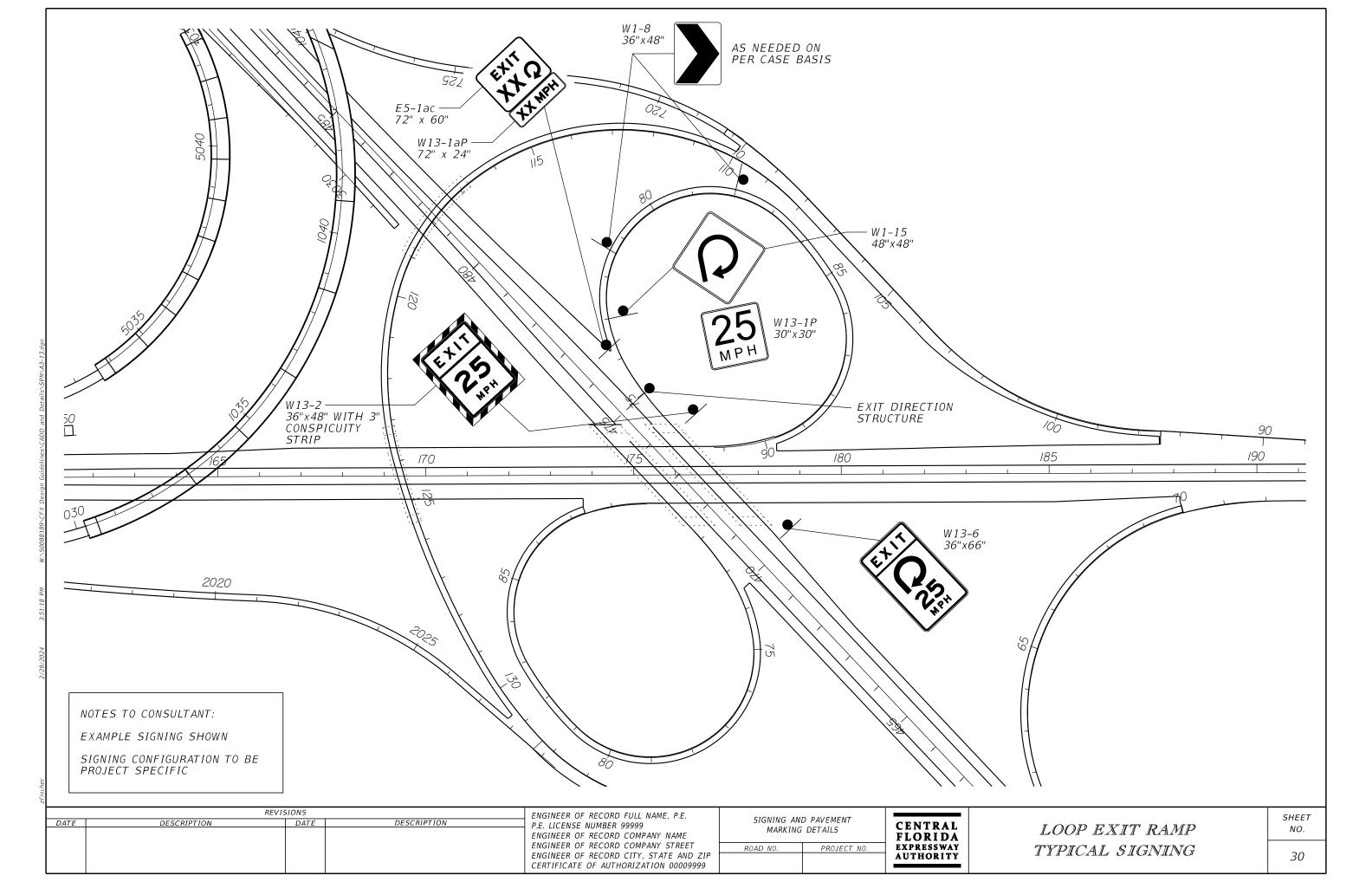
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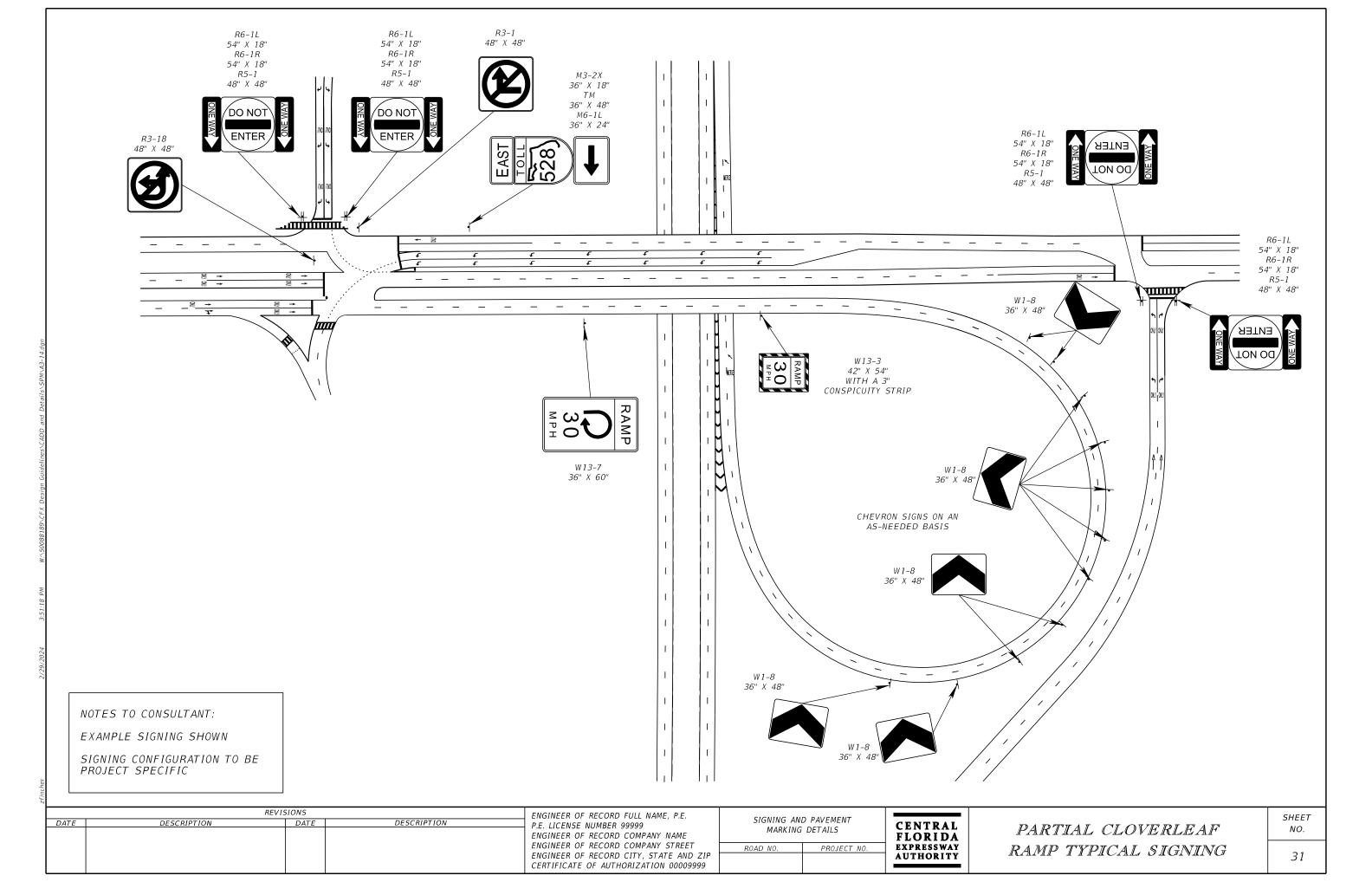
CE	SIGNING AND PAVEMENT						
FL	MARKING DETAILS						
EXP	PROJECT NO.	ROAD NO.					

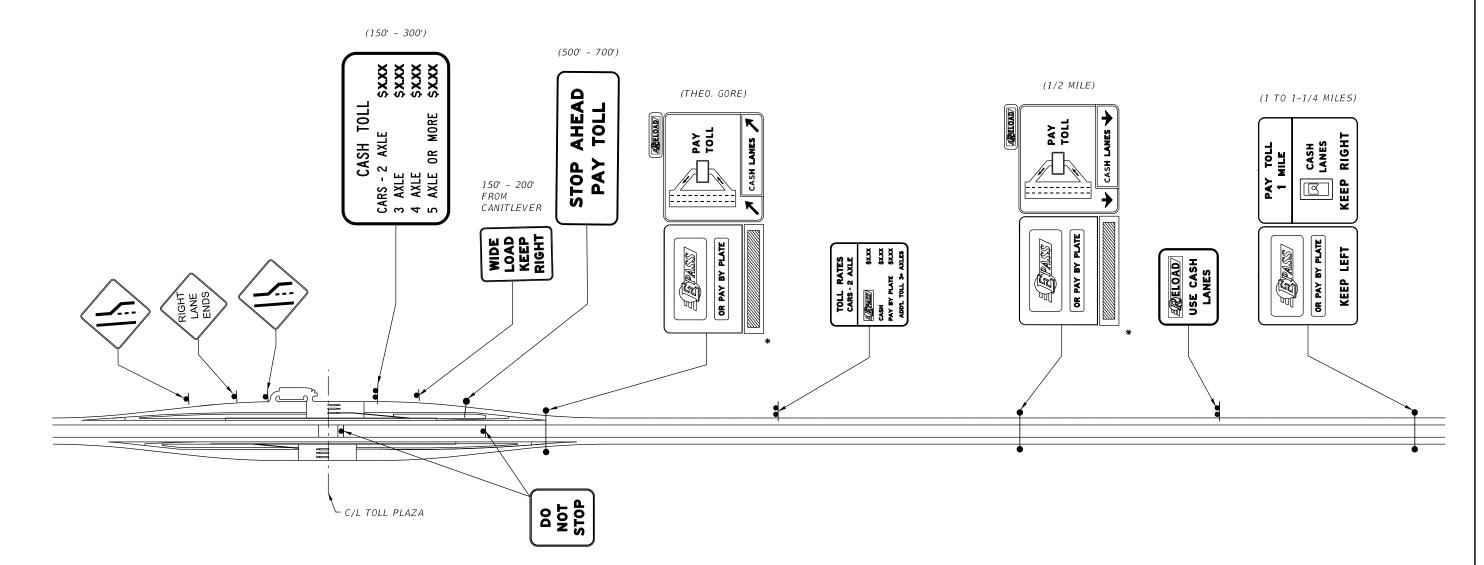
ENTRAL ORIDA EXPRESSWAY AUTHORITY

LOOP RAMP SIGNING SPECIAL DETAILS

SHEET NO.







- 1. LOCATION OF ADVANCED SIGNS ON MAINLINE MEASURED FROM THE CENTERLINE OF THE TOLL PLAZA.
- 2. * PANELS ARE IN TWO PIECES: ONE STATIC PANEL ONE SINGLE LINE DMS BOX
- 3. THE GORE STRUCTURE LOCATION WILL BE FIXED BY THE THEORETICAL GORE. ALL OTHER SIGN ASSEMBLY LOCATIONS ARE APPROXIMATE AND DEPENDENT ON ACTUAL GEOMETRY.

	REVIS	ENGINEER OF RECORD FULL NAME, P.E.		
DATE DESCRIPTION		DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

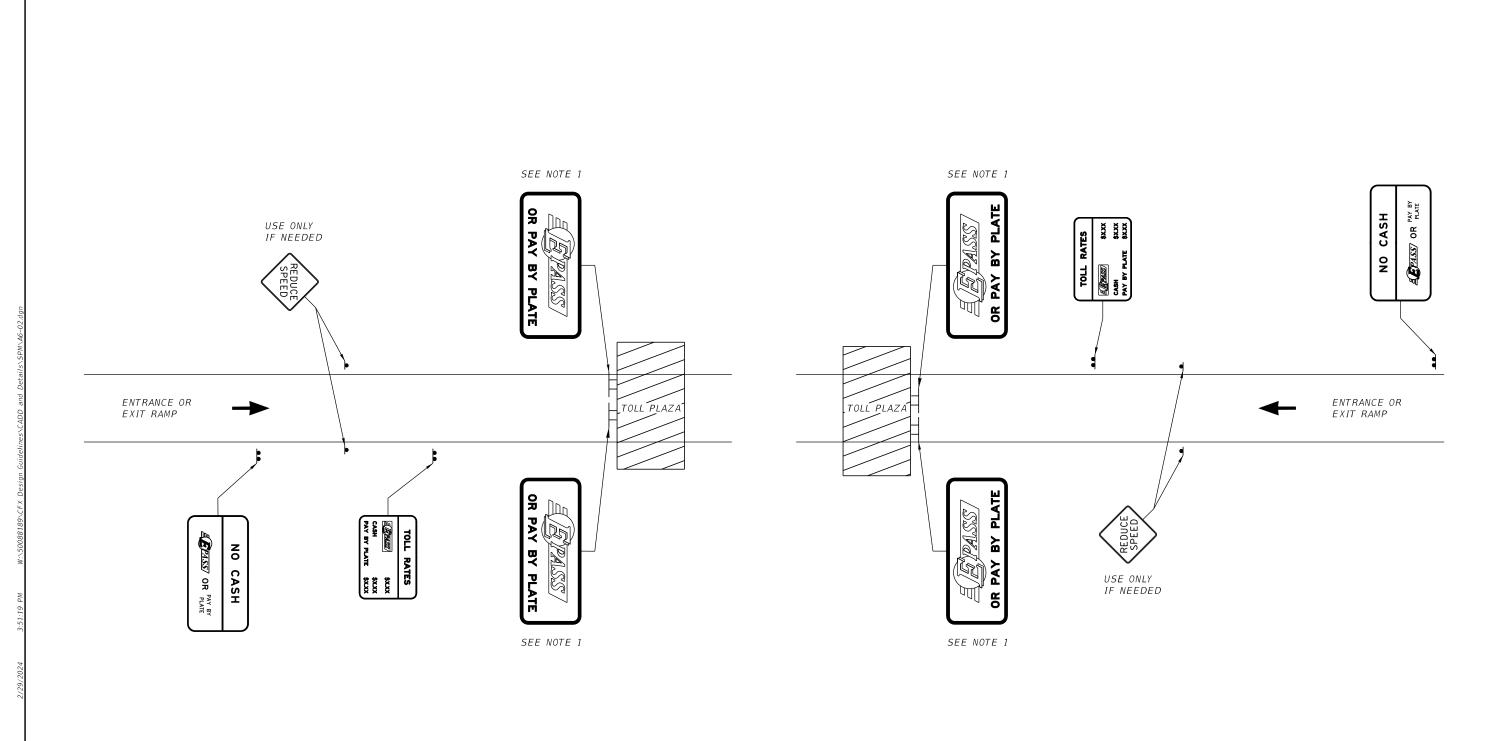
PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TYPICAL MAINLINE PLAZA SIGNING

SHEET NO.



- 1. AS DIRECTED BY CFX, SIGN PANELS MAY BE: TRUSS OR CANOPY MOUNTED.
- 3. INDICATES DIRECTION OF TRAVEL.

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ENGINEER OF RECORD FULL NAME, P.E.

P.E. LICENSE NUMBER 99999

ENGINEER OF RECORD COMPANY NAME
ENGINEER OF RECORD COMPANY STREET
ENGINEER OF RECORD CITY, STATE AND ZIP
CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TYPICAL TWO-LANE
RAMP ADVANCE SIGNING

SHEET NO.

- 1. USE SPECIFIC LANE CONFIGURATION DETAIL THAT MATCHES GEOMETRIC CONDITIONS. SEE SHEET 36.
- 2. DELETE THIS BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

3 WHITE -BLACK (TYP.) —white√ 29.5 CV5W (ALL UC) 92 1.5— BLACK (TYP.) WHITE ∕—GREEN— **→** 3 WHITE — 3 WHITE 3 BLACK CASH LANES 7.1 \angle_{WHITE} 16'-6" X 18'-0" BLACK ON YELLOW W/ 3" 3 BLACK — BLACK BORDER ALL SIDES

NOTES:

- 1. SPACING BETWEEN BLACK LETTERS ON YELLOW BACKGROUND HAS BEEN INCREASED 10% FOR IMPROVED LEGIBILITY.
- 2. CORNER RADII: 12"
- 3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 99999
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SIGNING AND PAVEMENT
MARKING DETAILS

ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

GUIDE SIGN WORKSHEET

MAINLINE PLAZA (1)

SHEET NO.

- 1. USE SPECIFIC LANE CONFIGURATION DETAIL THAT MATCHES GEOMETRIC CONDITIONS. SEE SHEET 36.
- 2. DELETE THIS BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

3 WHITE -BLACK (TYP.) → WHITE→ 29.5 CV5W (ALL UC) 29.4 BLACK ∕ GREEN− — 3 WHITE **→** 3 WHITE (TYP.) (TYP.). — 3 BLACK 16'-6" X 18'-0" BLACK ON YELLOW W/ 3" 3 BLACK BLACK BORDER ALL SIDES

NOTES:

- 1. SPACING BETWEEN BLACK LETTERS ON YELLOW BACKGROUND HAS BEEN INCREASED 10% FOR IMPROVED LEGIBILITY.
- 2. CORNER RADII: 12"
- 3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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ENGINEER OF RECORD CITY, STATE AND ZIP

CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT
MARKING DETAILS

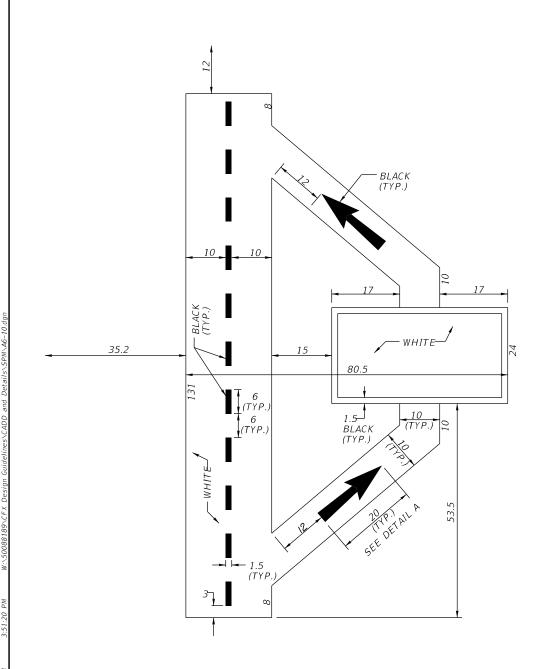
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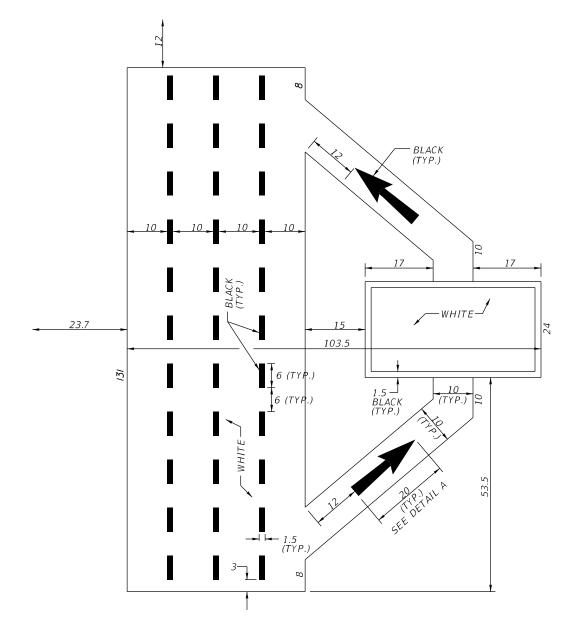
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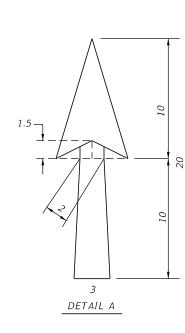
GUIDE SIGN WORKSHEET

MAINLINE PLAZA (2)

SHEET NO.







NOTES

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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ENGINEER OF RECORD COMPANY NAME
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CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

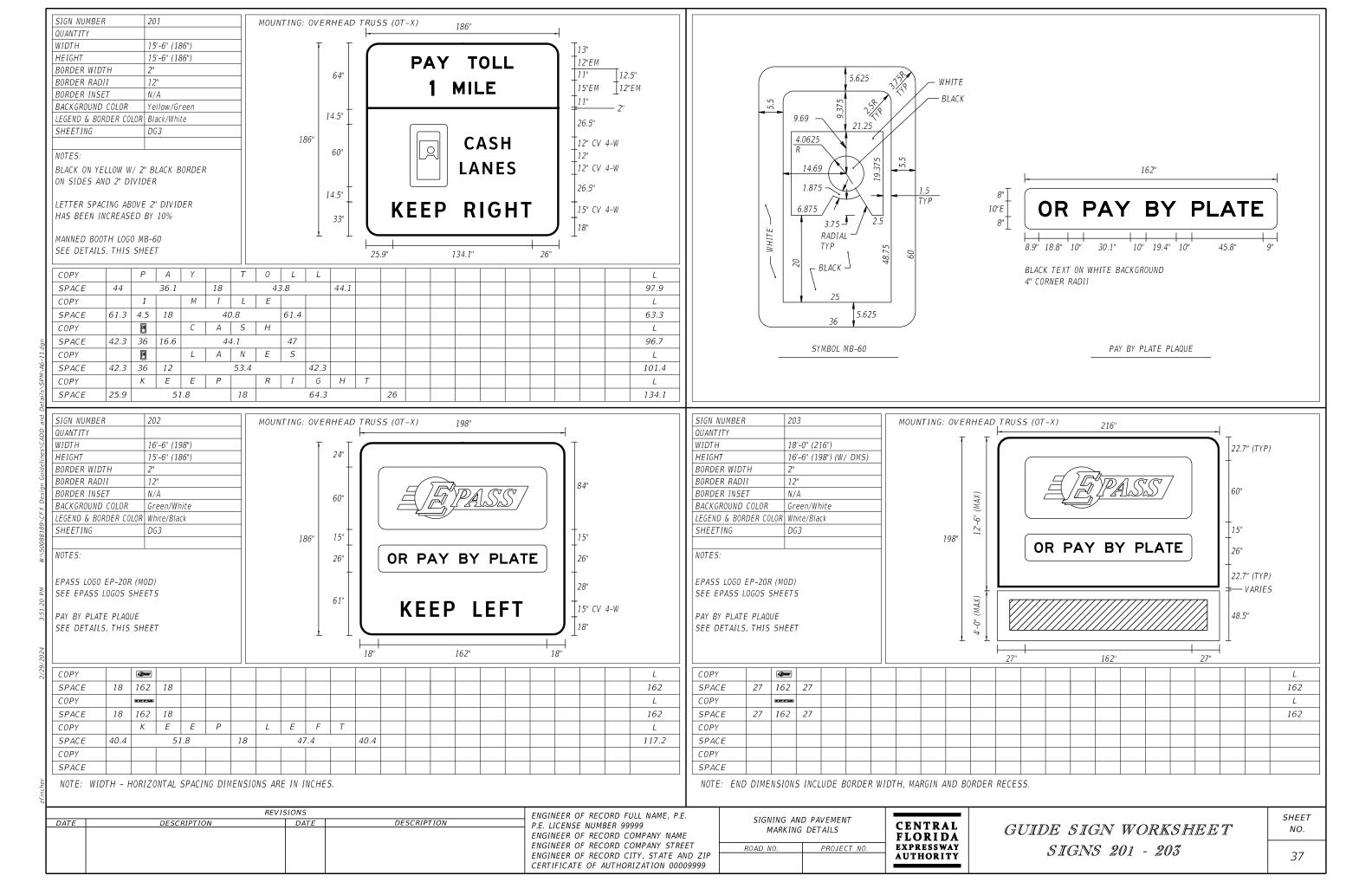
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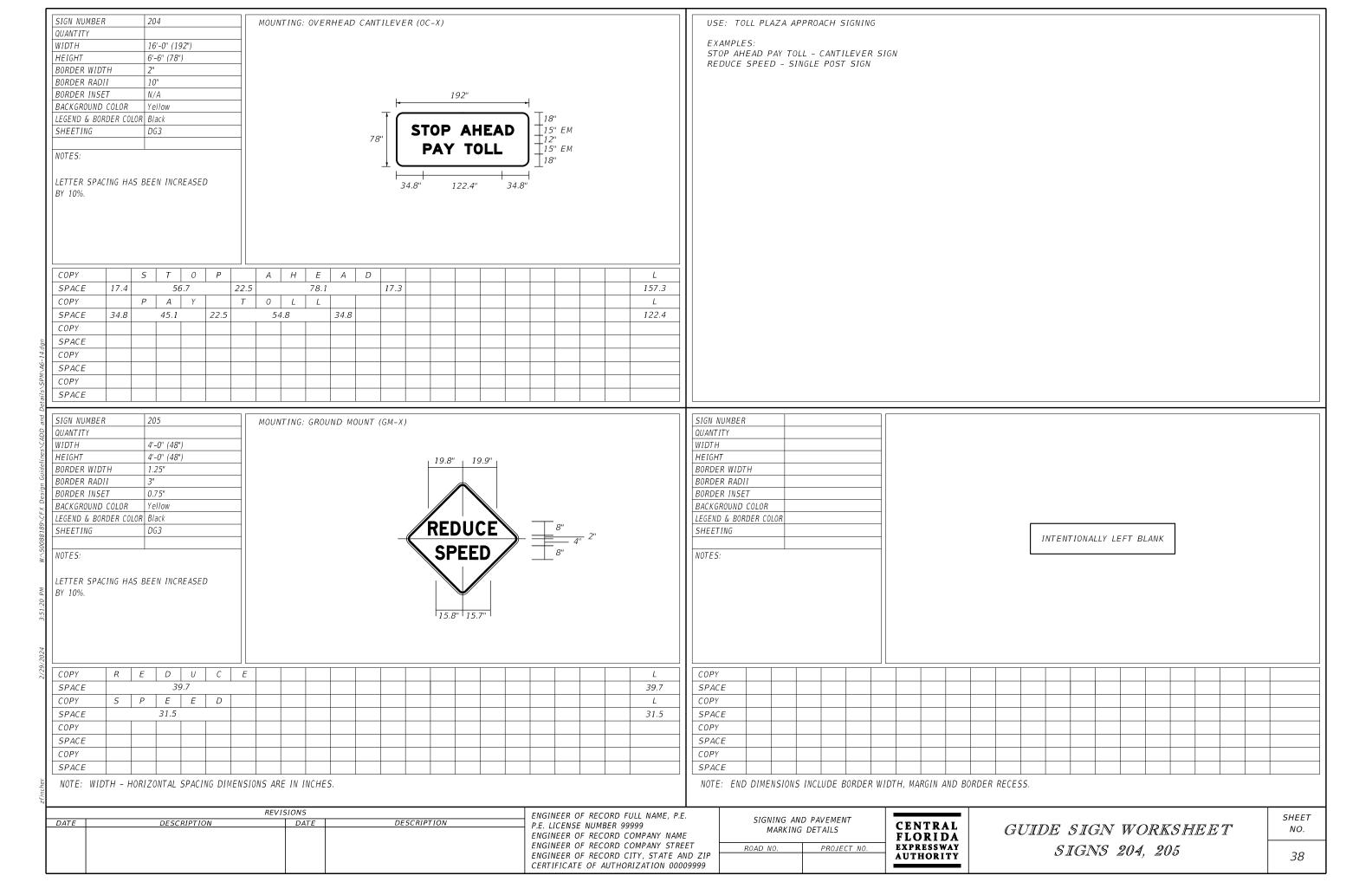
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

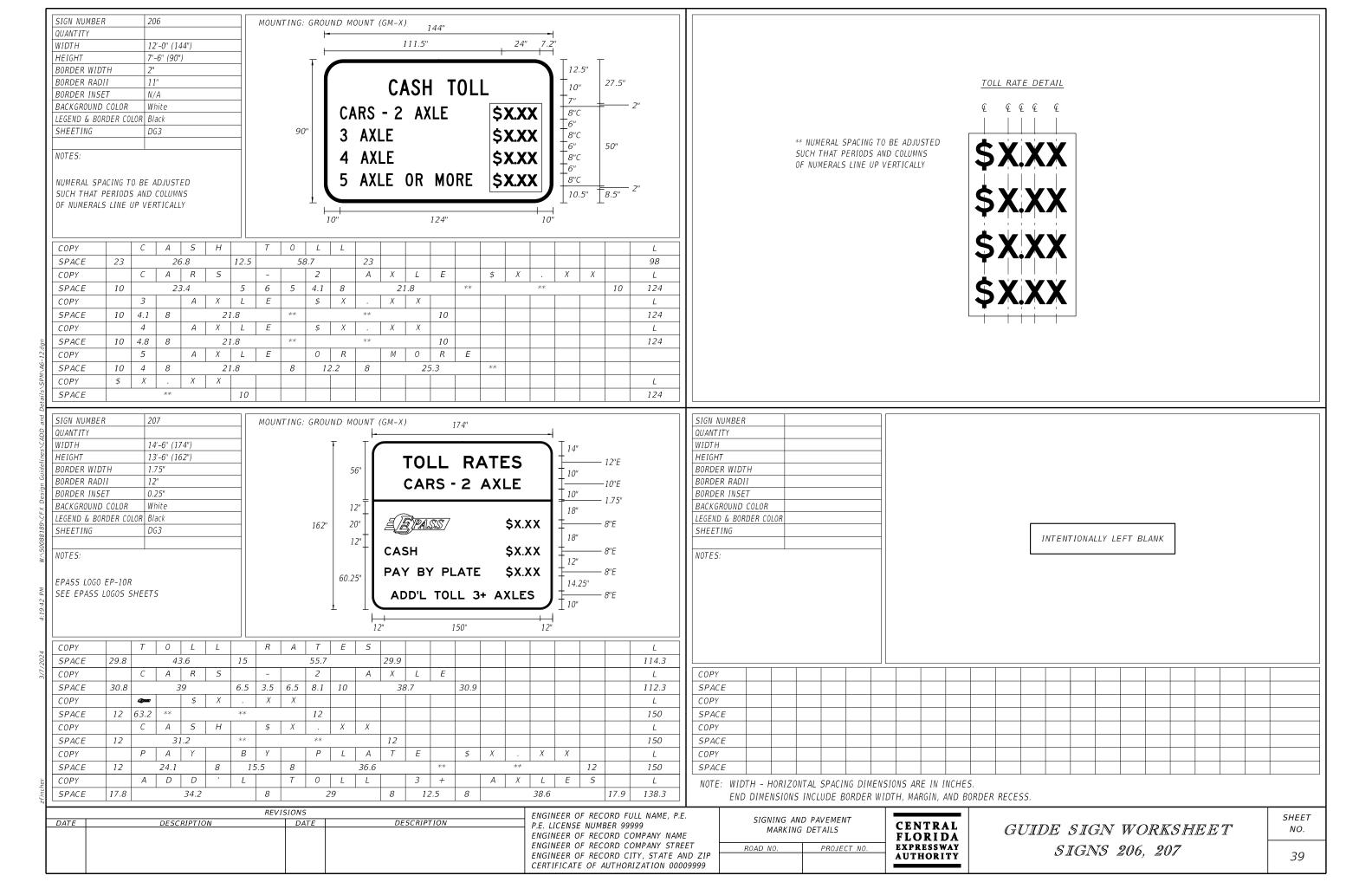
GUIDE SIGN WORKSHEET

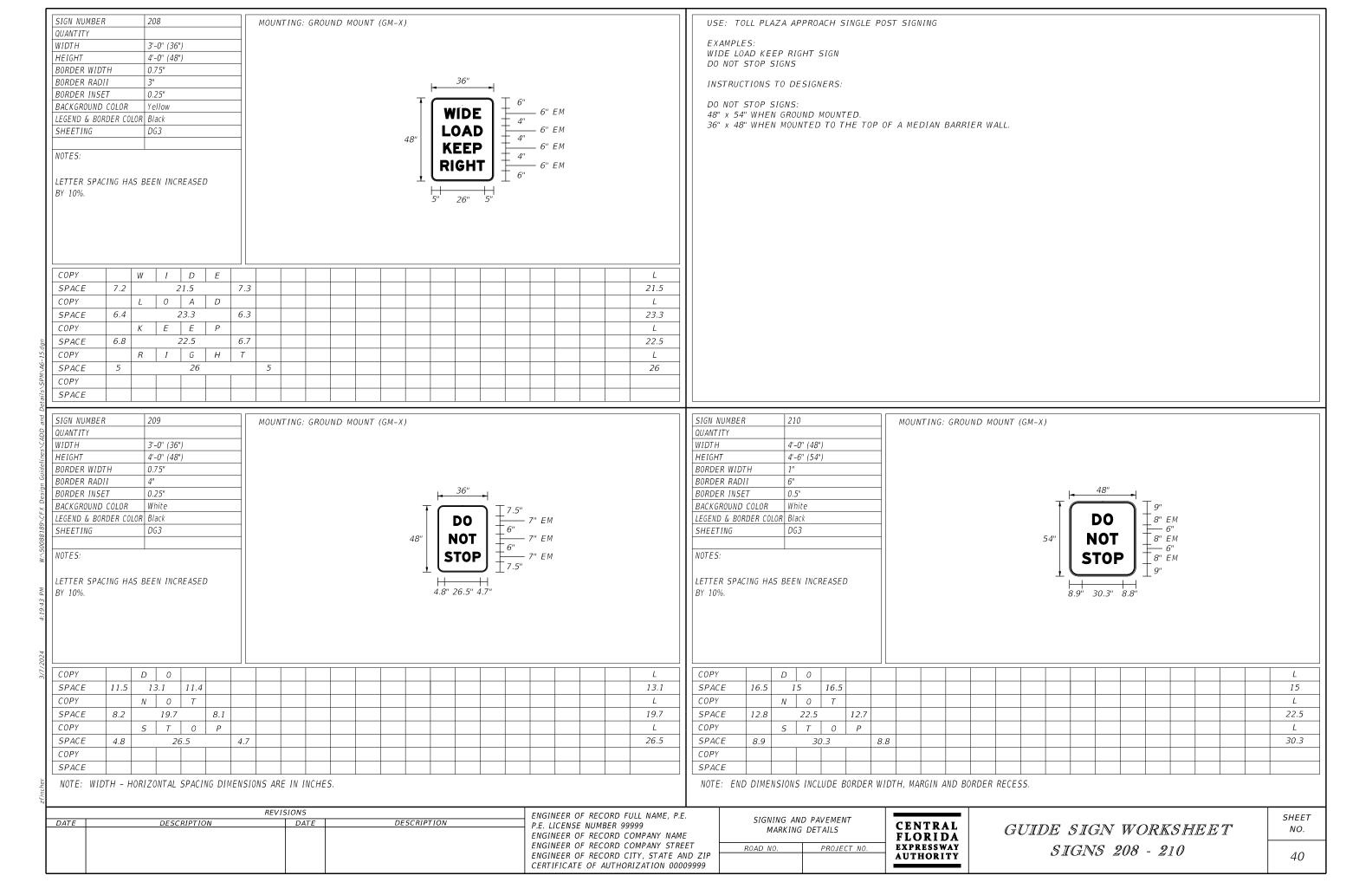
MAINLINE PLAZA (3)

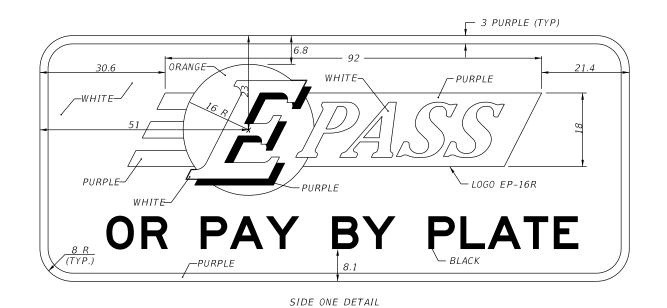
SHEET NO.







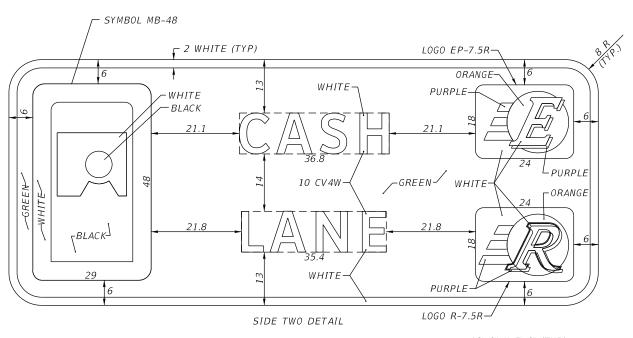


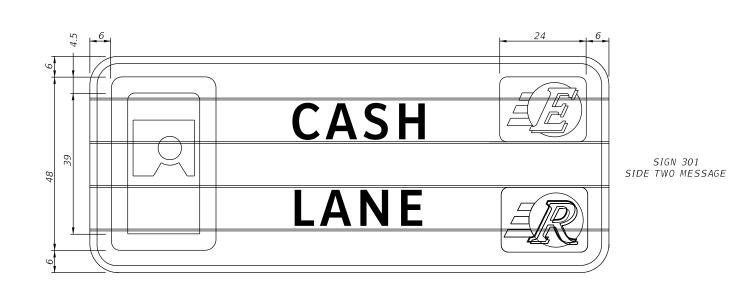




SIGN 301 SIDE ONE MESSAGE

SIGN 301





12'-0" X 5'-0" (TYP)

NOTES TO CONSULTANT:

- 1. DETAILS ON THIS SHEET SHALL BE USED FOR OVERLAYS OF EXISTING ROTATING CMS SIGNS.
- 2. INSERT CROSS REFERENCE SHEET NUMBER INTO NOTE 2.
- 3. DELETE THIS BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

ROAD NO.

CMS SIGNING GENERAL NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. SEE SHEET XX FOR DETAILS OF LOGO EP-7.5R, LOGO EP-16R, AND LOGO R-7.5R.

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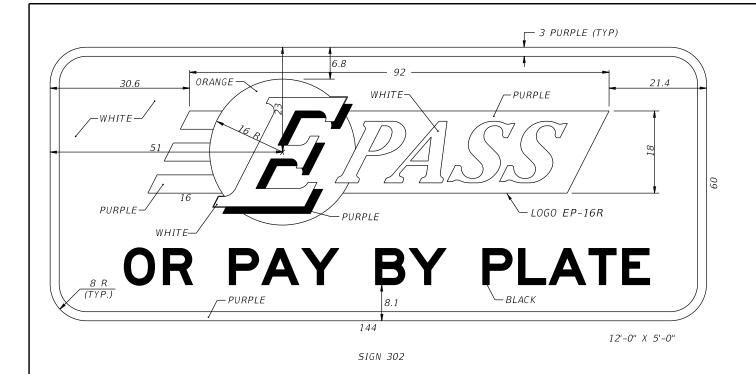
INEER OF RECORD FULL NAME, P.E. LICENSE NUMBER 99999 INEER OF RECORD COMPANY NAME INEER OF RECORD COMPANY STREET INEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

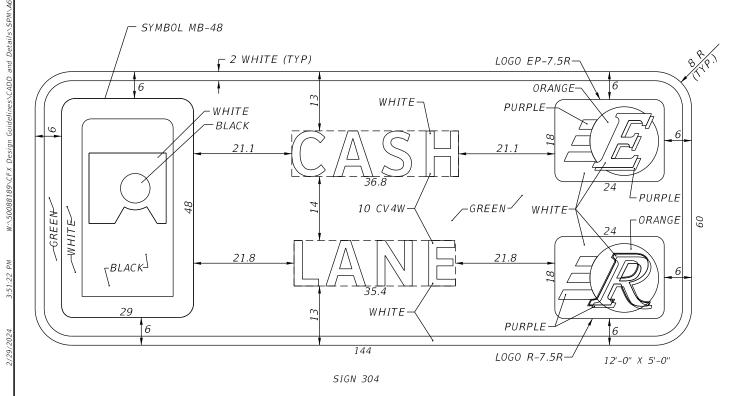
SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TOLL PLAZA CANOPY SIGNS SHEET NO.





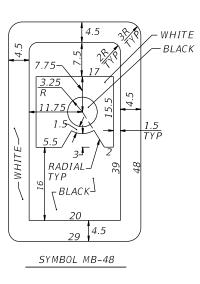
CANOPY SIGNING GENERAL NOTES

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. SEE SHEET XX FOR DETAILS OF LOGO EP-7.5R, LOGO EP-16R, AND LOGO R-7.5R.

DATE

NOTES TO CONSULTANT:

- 1. DETAILS ON THIS SHEET SHALL BE USED FOR TOLL PLAZA STATIC SIGNS.
- 2. INSERT CROSS REFERENCE SHEET NUMBER INTO NOTE 2.
- 3. DELETE THIS BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.



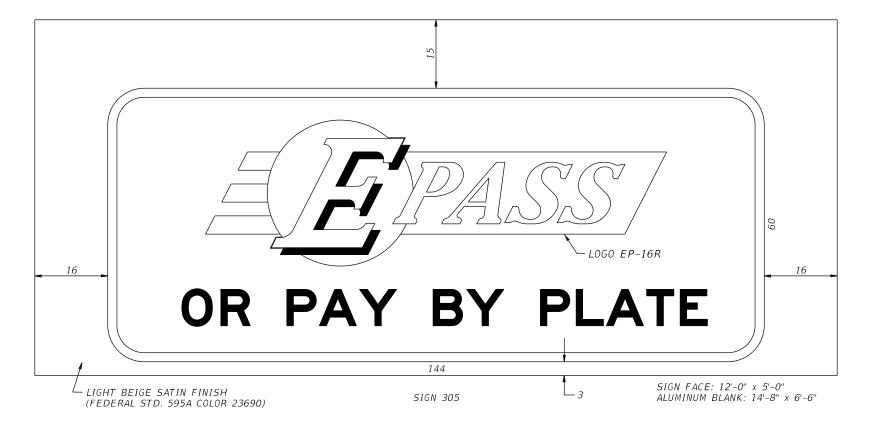
REVIS	ENGINEER OF RECORD FULL NAME, P.E.		
DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP
			CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY TOLL PLAZA
CANOPY SIGNS

SHEET NO.



GENERAL NOTES

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. THE SIGN FACE SHALL BE DIRECTLY APPLIED TO THE ALUMINUM SIGN BLANK.
- 3. ALL SIDES OF THE ALUMINUM SURFACE OUTSIDE THE SIGN FACE AREA SHALL BE PAINTED LIGHT BEIGE SATIN FINISH (FEDERAL STD. 595A COLOR 23690) TO MATCH THE TRUSS OR CANOPY.
- 4. SEE SHEET XX FOR EP-7.5R AND EP-16R DETAILS.

NOTES TO CONSULTANT:

- 1. DETAILS ON THIS SHEET SHALL BE USED FOR LOCATIONS WHERE ROTATING CMS ARE BEING REPLACED BY A STATIC PANEL.
- 2. PROVIDE SITE-SPECIFIC CANOPY MOUNTING DETAILS. SPECIFY MOUNTING HARDWARE MATERIAL REQUIREMENTS.
- 3. INSERT CROSS REFERENCE SHEET NUMBER INTO NOTE 4.
- 4. DELETE THIS BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

	REV	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND ZI
		1		CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

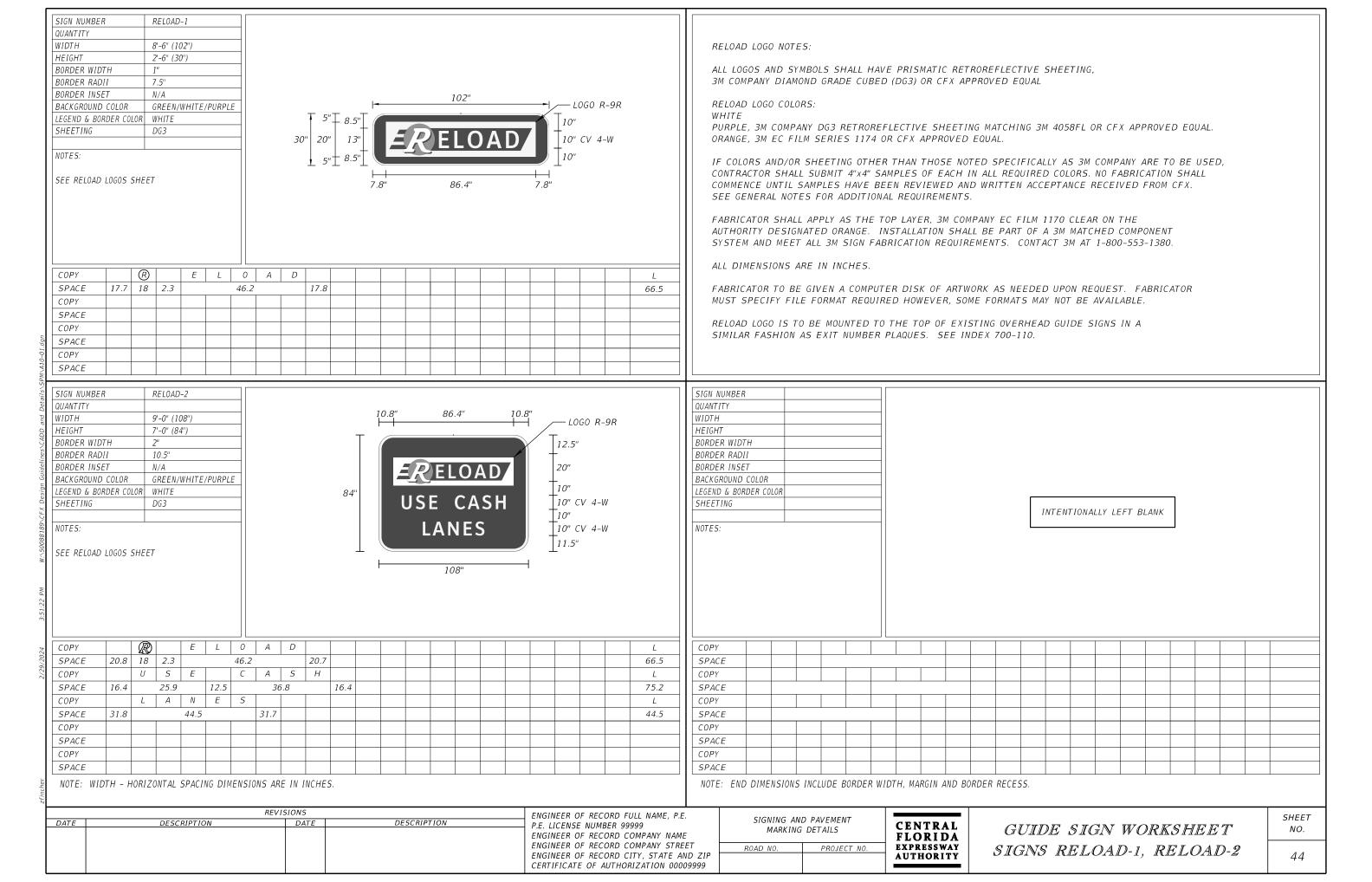
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

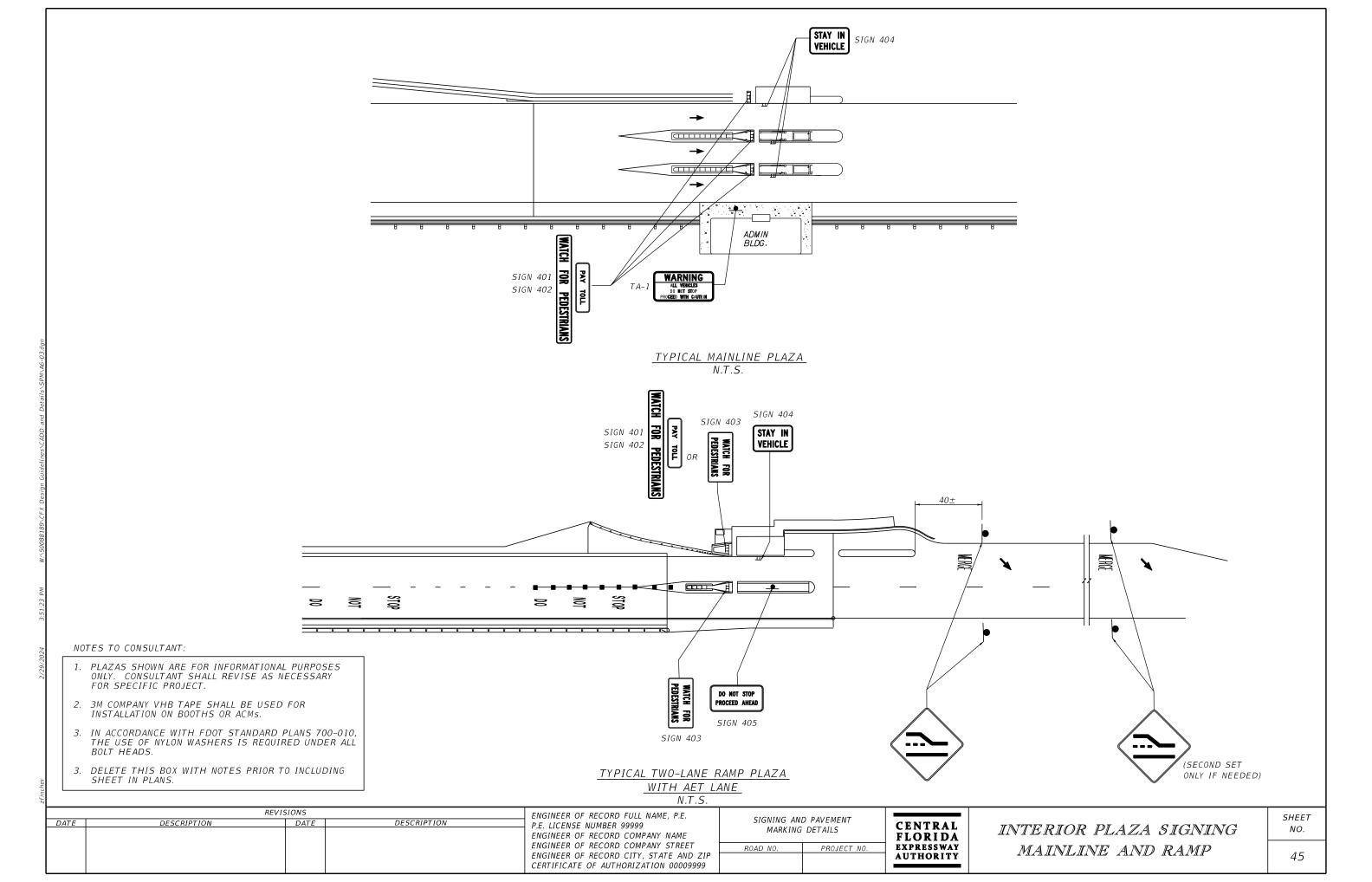
TOLL PLAZA
CANOPY SIGNS

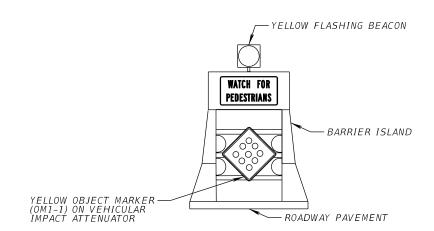
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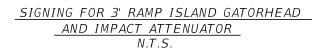
43

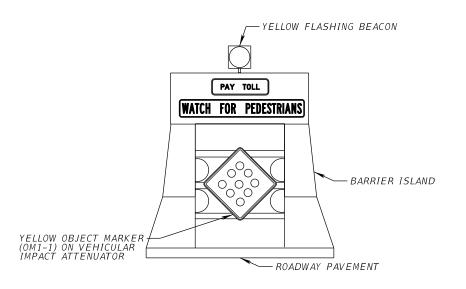
zfincher







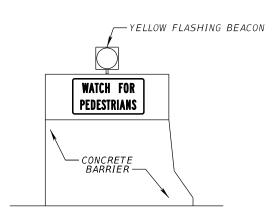




SIGNING FOR 6' (MIN.) MAINLINE ISLAND GATORHEAD

AND IMPACT ATTENUATOR

N.T.S.



SIGNING FOR 4'-7" (+/-)
RAMP ISLAND GATORHEAD
N.T.S.

NOTES:

1. IN ACCORDANCE WITH FDOT STANDARD PLANS 700-010, THE USE OF NYLON WASHERS IS REQUIRED UNDER ALL BOLT HEADS.

REVISIONS

DATE DESCRIPTION DATE DESCRIPTION

DATE DESCRIPTION

P.E. LICENSE NUMBER 99999

ENGINEER OF RECORD COMPANY NAME

ENGINEER OF RECORD COMPANY STREET

ENGINEER OF RECORD CITY, STATE AND ZIP

CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

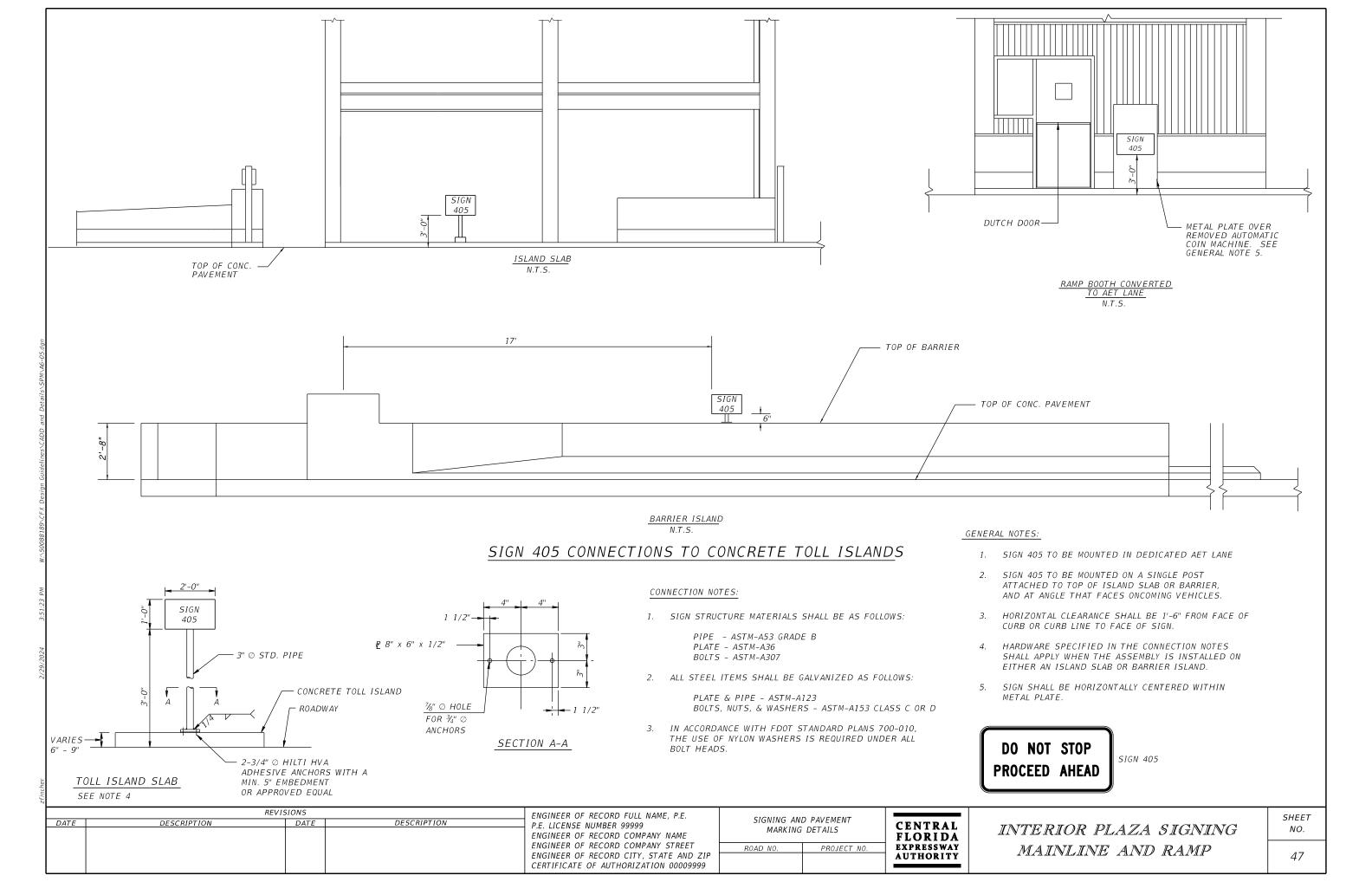
ROAD NO.

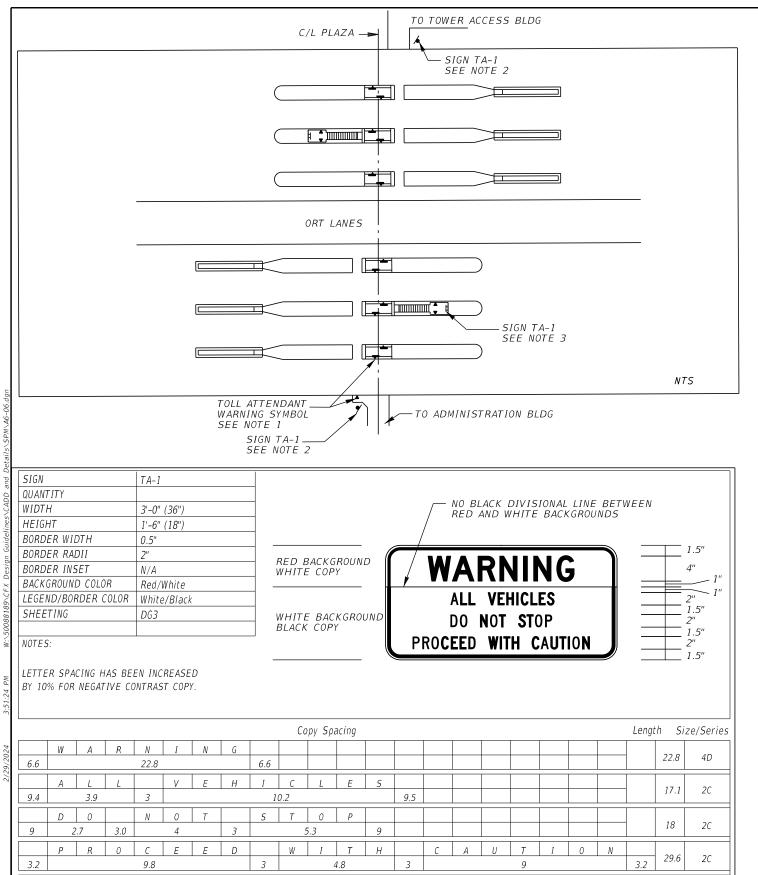
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

INTERIOR PLAZA SIGNING MAINLINE AND RAMP SHEET NO.

46

zfincher





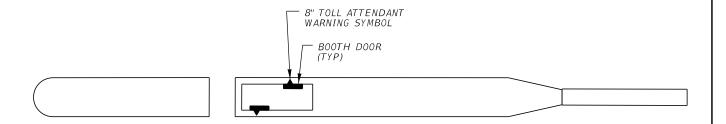
GENERAL NOTES:

- ACTUAL LOCATION OF TOLL ATTENDANT WARNING SYMBOLS, WITHIN TOLL BOOTH DOOR AREAS, SHALL BE AS DIRECTED BY THE ENGINEER. ADDITIONAL SYMBOLS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SIZE OF SYMBOL AT TOLL BOOTH DOOR AREAS SHALL BE 8" X 8" X 8".
- 2. POST MOUNTED WARNING SIGN (SIGN TA-1) ASSEMBLY SHALL BE FIELD LOCATED BY THE ENGINEER AND FURNISHED AND INSTALLED BY THE
- 3. ATTENDANT WARNING SIGNS (SIGN TA-1) SHALL BE FURNISHED AND INSTALLED (ANCHOR BOLTED) BY THE CONTRACTOR ON THE ISLAND BARRIER WALL FACING EACH STAIRWELL WHEN PRESENT. PLACEMENT SHALL PROVIDE OPTIMUM VISIBILITY.
- 4. IN ACCORDANCE WITH FDOT STANDARD PLANS 700-010, THE USE OF NYLON WASHERS IS REQUIRED UNDER ALL BOLT HEADS.

NOTES TO CONSULTANT:

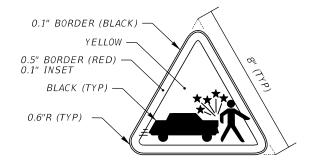
- 1. SIGN TA-1 AND TOLL ATTENDANT WARNING SYMBOLS ARE TO BE INCLUDED IN THE TOLL PLAZA PLANS UNLESS CFX DIRECTS OTHERWISE. PAYMENT IS TO BE INCLUDED IN THE LUMP SUM FOR THE TOLL PLAZA.
- 2. QUANTITIES TABLE MAY BE INCLUDED FOR BID PURPOSES ONLY.
- 3. PROVIDE PROJECT SPECIFIC CROSS REFERENCES IN DETAILS BELOW.
- 4. VERIFY WALKWAY PATH WITH CFX OPERATIONS AND REVISE DETAIL ACCORDINGLY.
- 5. DELETE THIS BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

TOLL ATTENDANT SIGNING & SYMBOL QUANTITIES						
PAY ITEM NO.	DESCRIPTION		PLAZA	PLAZA	TOTAL	
	SIGN SINGLE POST (LESS THAN 12) (SIGN TA-1)	A5				
	SIGN PANEL (15 OR LESS) (SIGN TA-1) (BARRIER MOUNT)	EA				
	FURNISH AND INSTALL PAVEMENT SYMBOL (8")	EA				



TYPICAL ISLAND LOCATIONS FOR TOLL ATTENDANT WARNING SYMBOLS

SEE GENERAL NOTE 1 NTS



FOR INFORMATION ONLY -- SHOP DRAWINGS ARE REQUIRED

TYPICAL TOLL ATTENDANT WARNING SYMBOL

SEE GENERAL NOTE 1 NTS

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

REVISIONS ENGINEER OF RECORD FULL NAME, P.E. DATE DATE DESCRIPTION P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

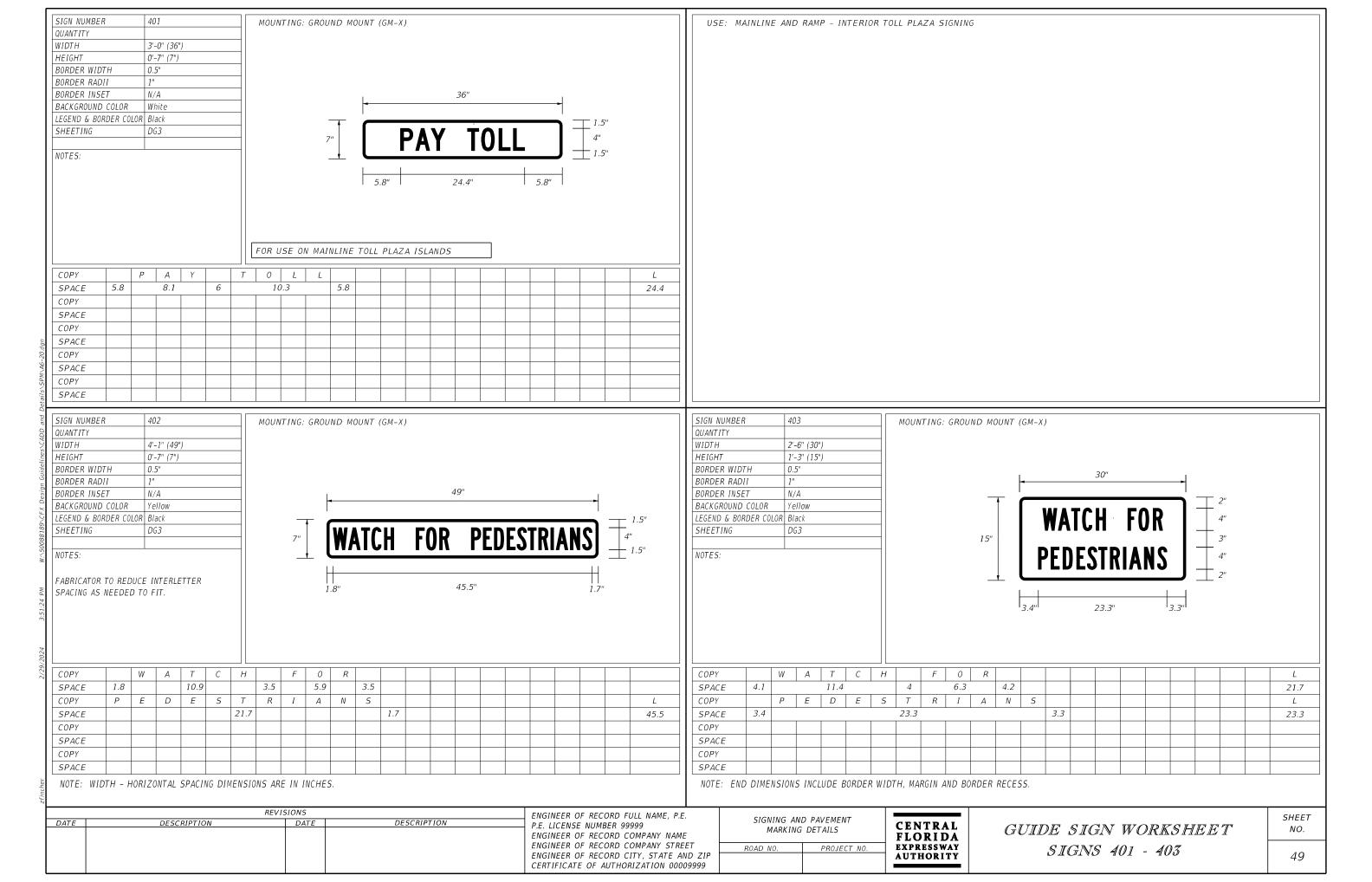
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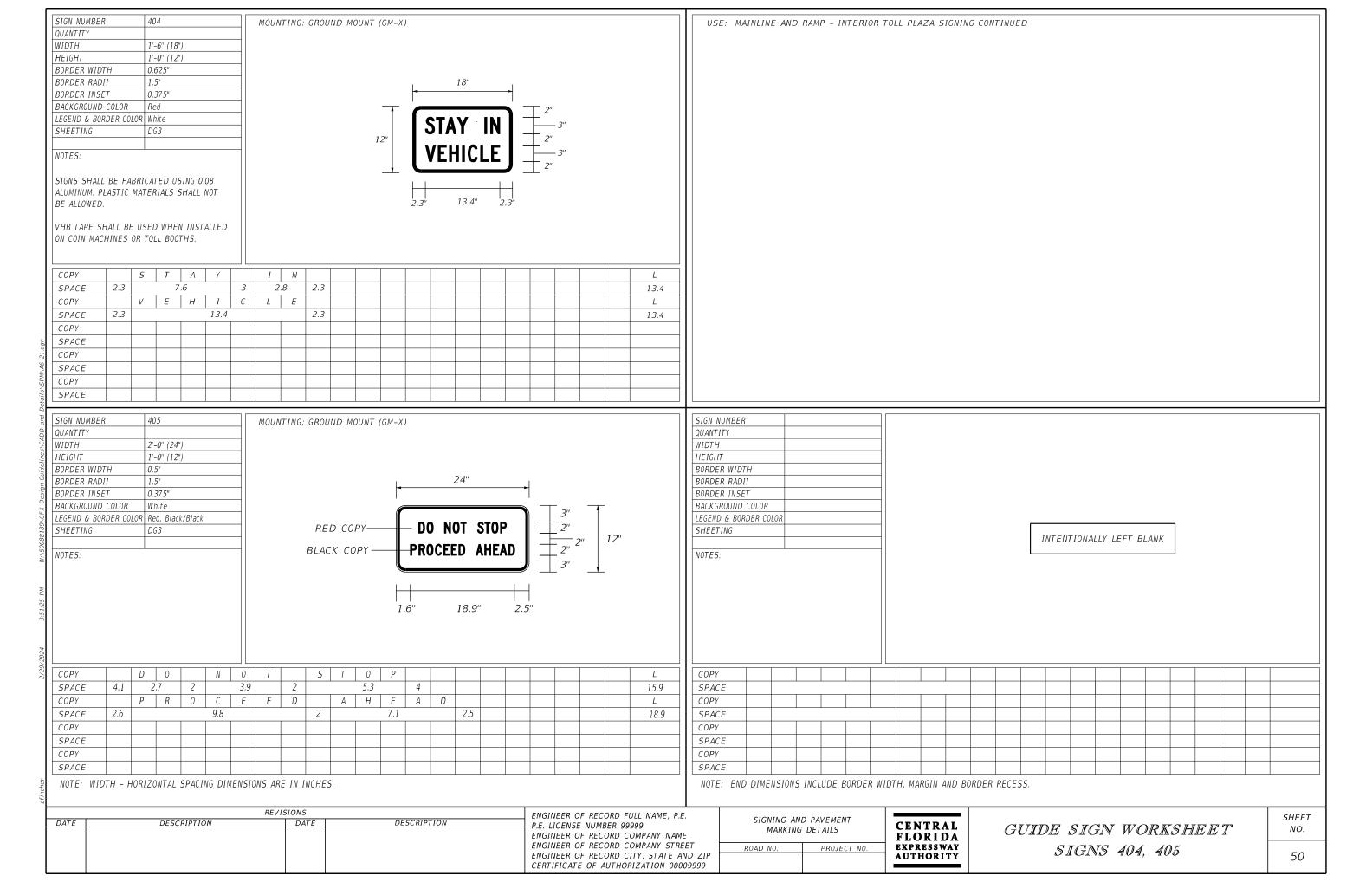
ROAD NO.

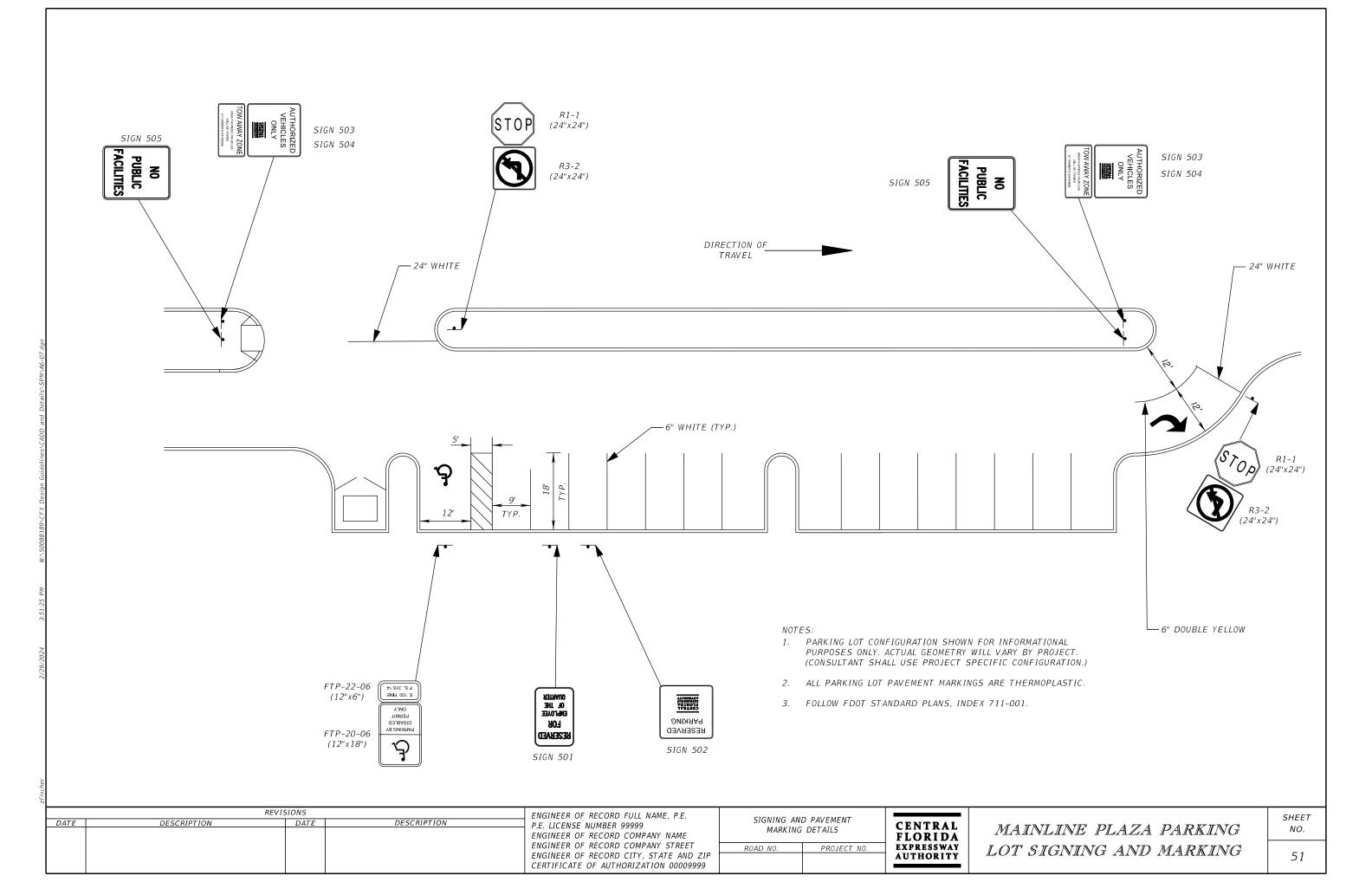
CENTRAL **FLORIDA EXPRESSWAY** AUTHORITY

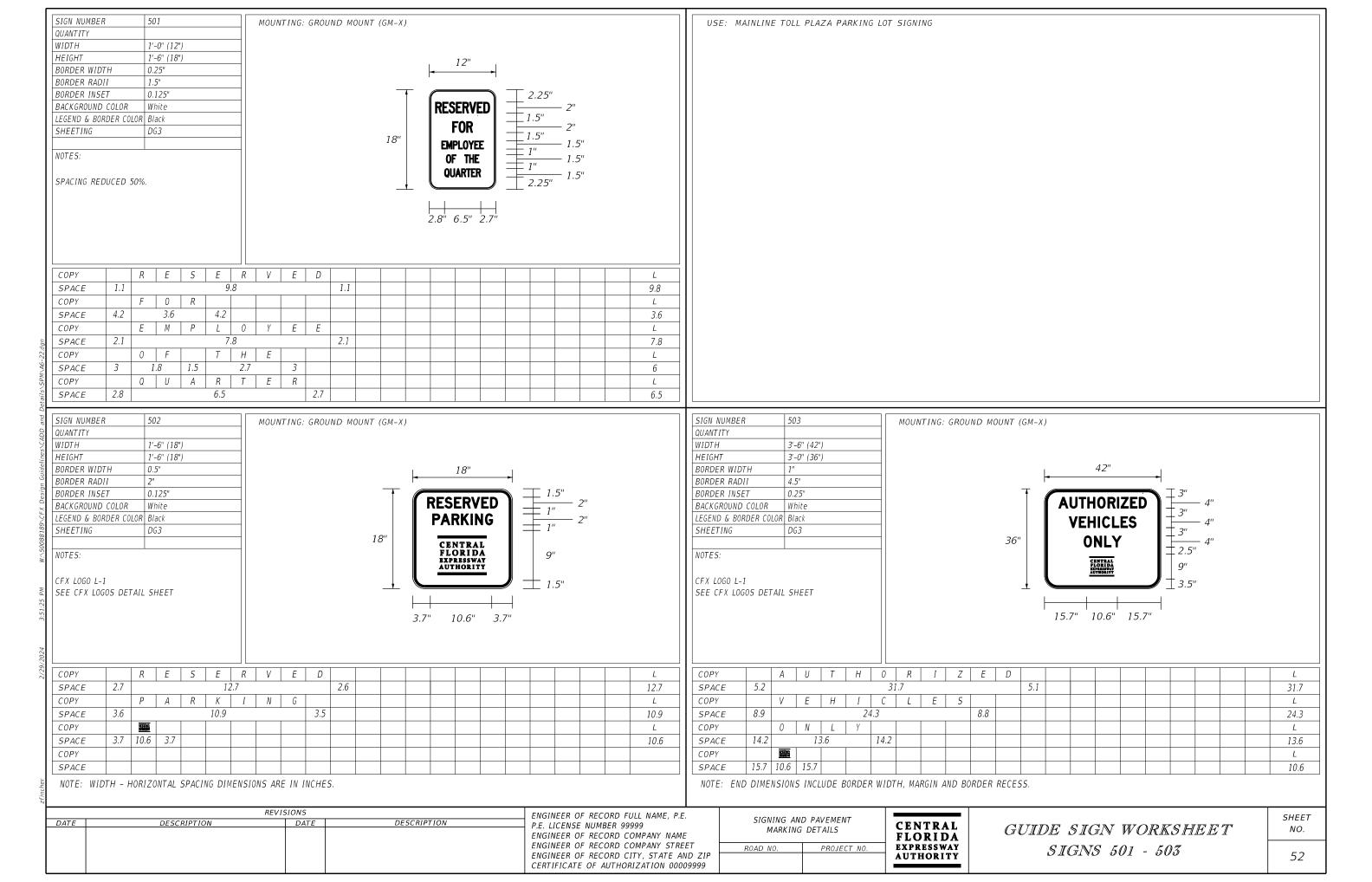
TOLL ATTENDANT SIGNING

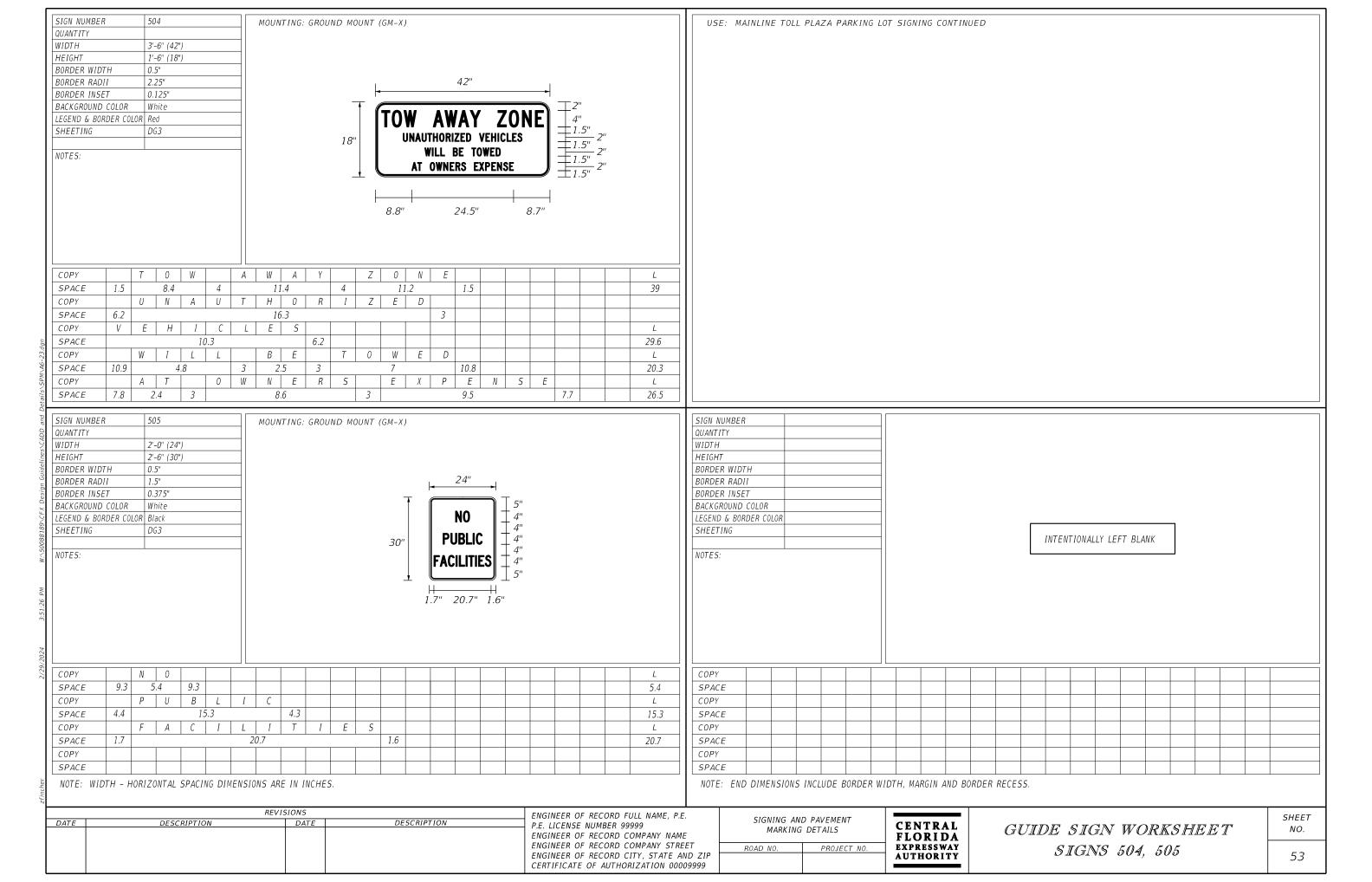
SHEET NO.

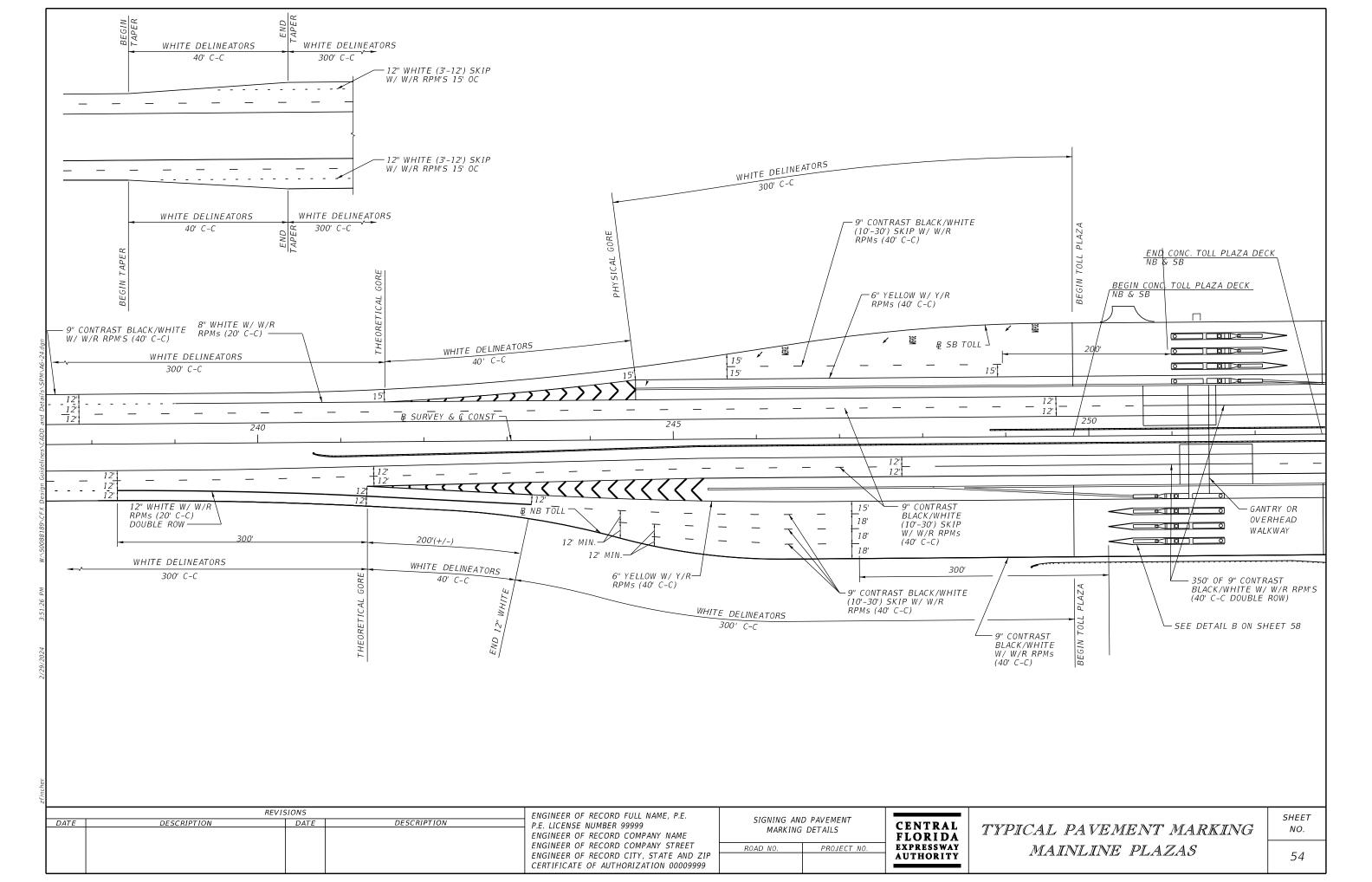


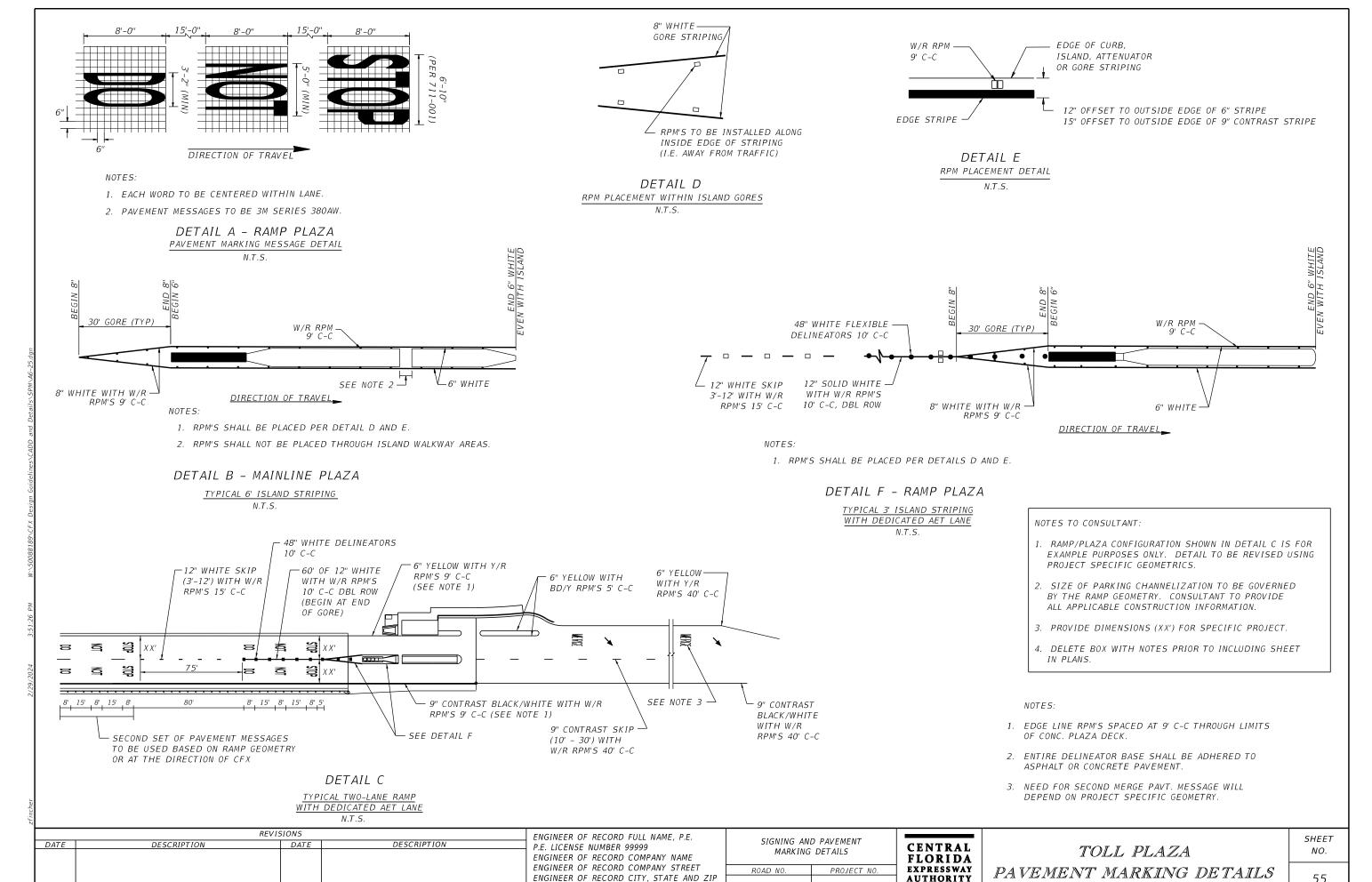






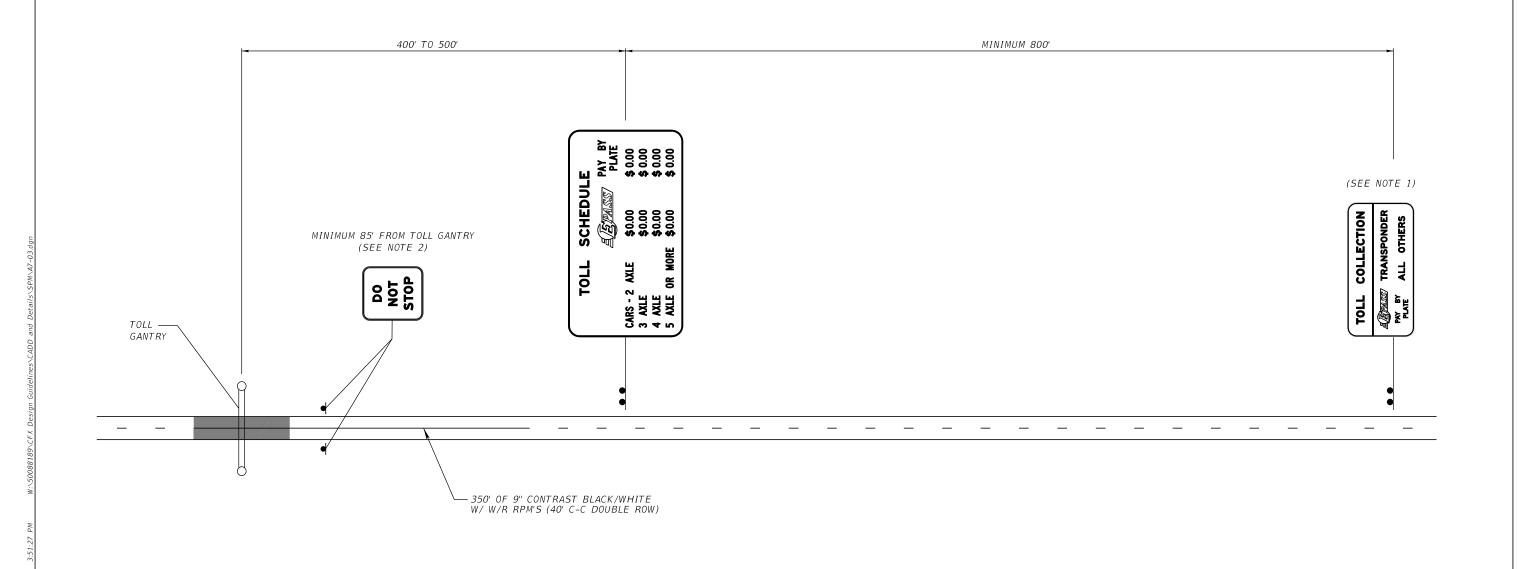






CERTIFICATE OF AUTHORIZATION 00009999

AUTHORITY



NOTES TO CONSULTANT:

- 1. SIGN 605 TO BE USED AS AN AUXILIARY PANEL ONLY WHEN SPECIFIED. VERIFY WITH CFX FOR WHICH VARIATION TO USE.
- 2. VERIFY THAT SIGNS ARE NOT PLACED ON TOP OF PULL BOXES.

	REVIS	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND ZIP
				CERTIFICATE OF AUTHORIZATION 00009999
	l l			CENTIFICATE OF NOTITION 20003333

SIGNING AND PAVEMENT MARKING DETAILS

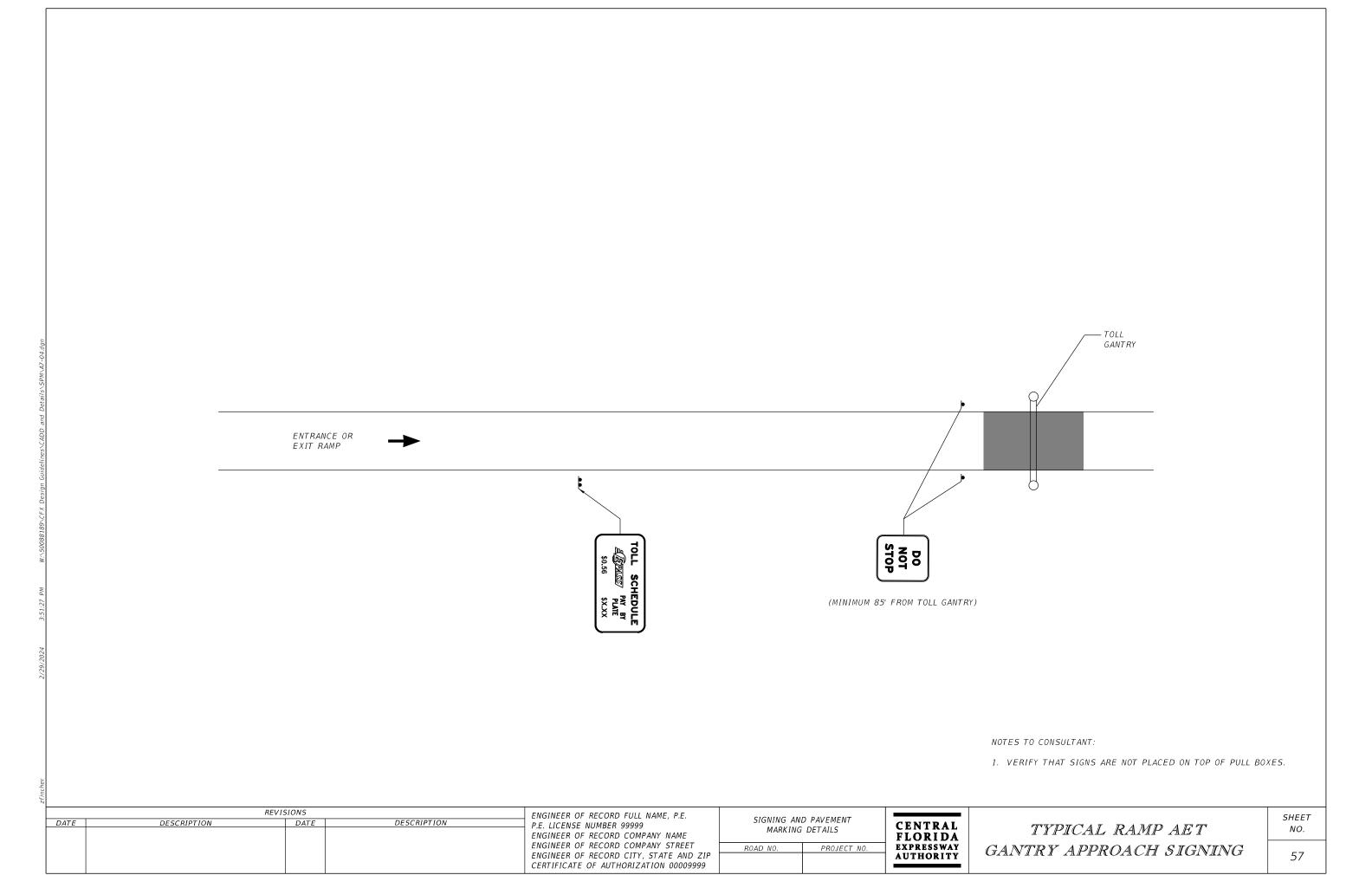
PROJECT NO.

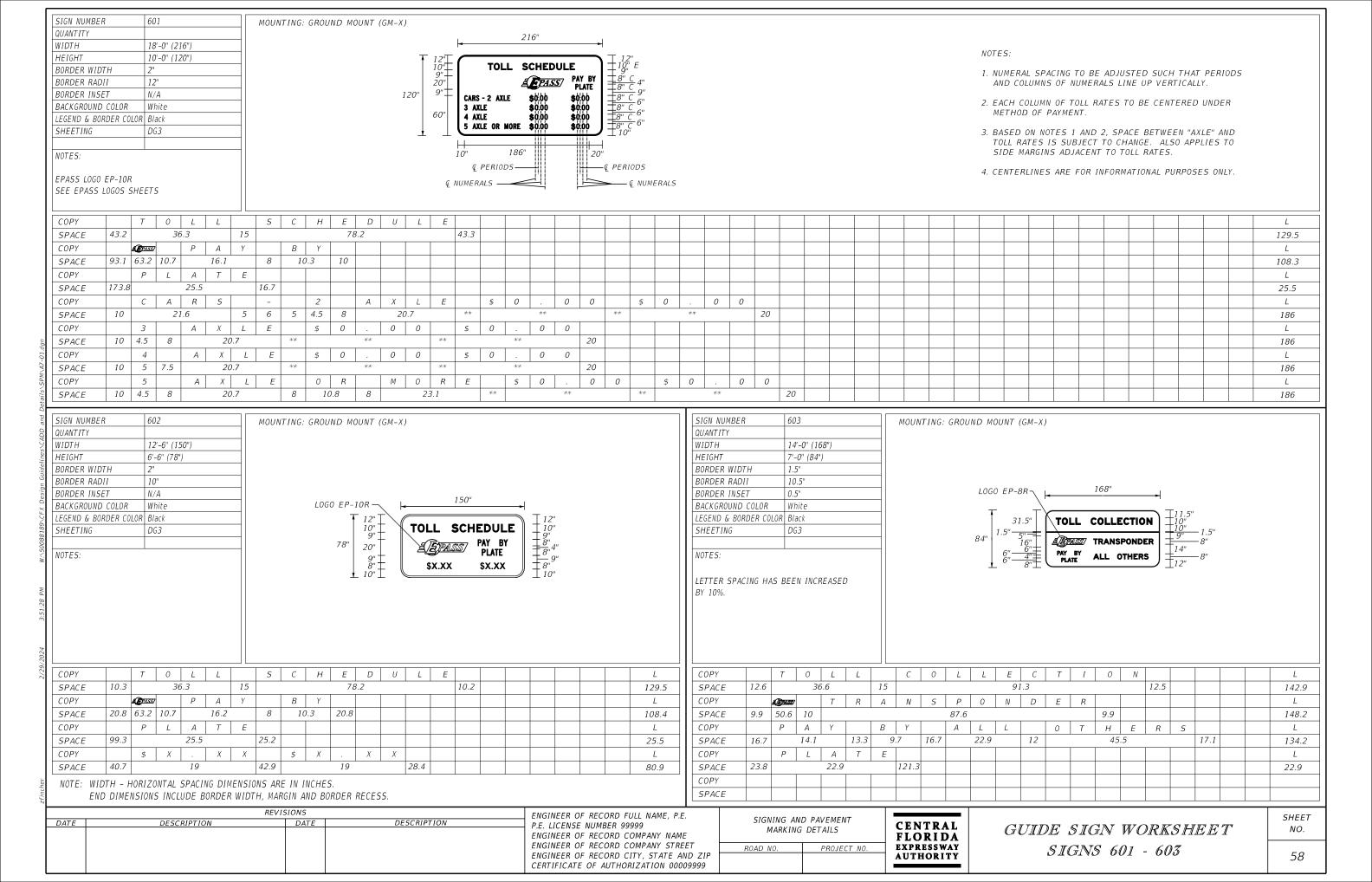
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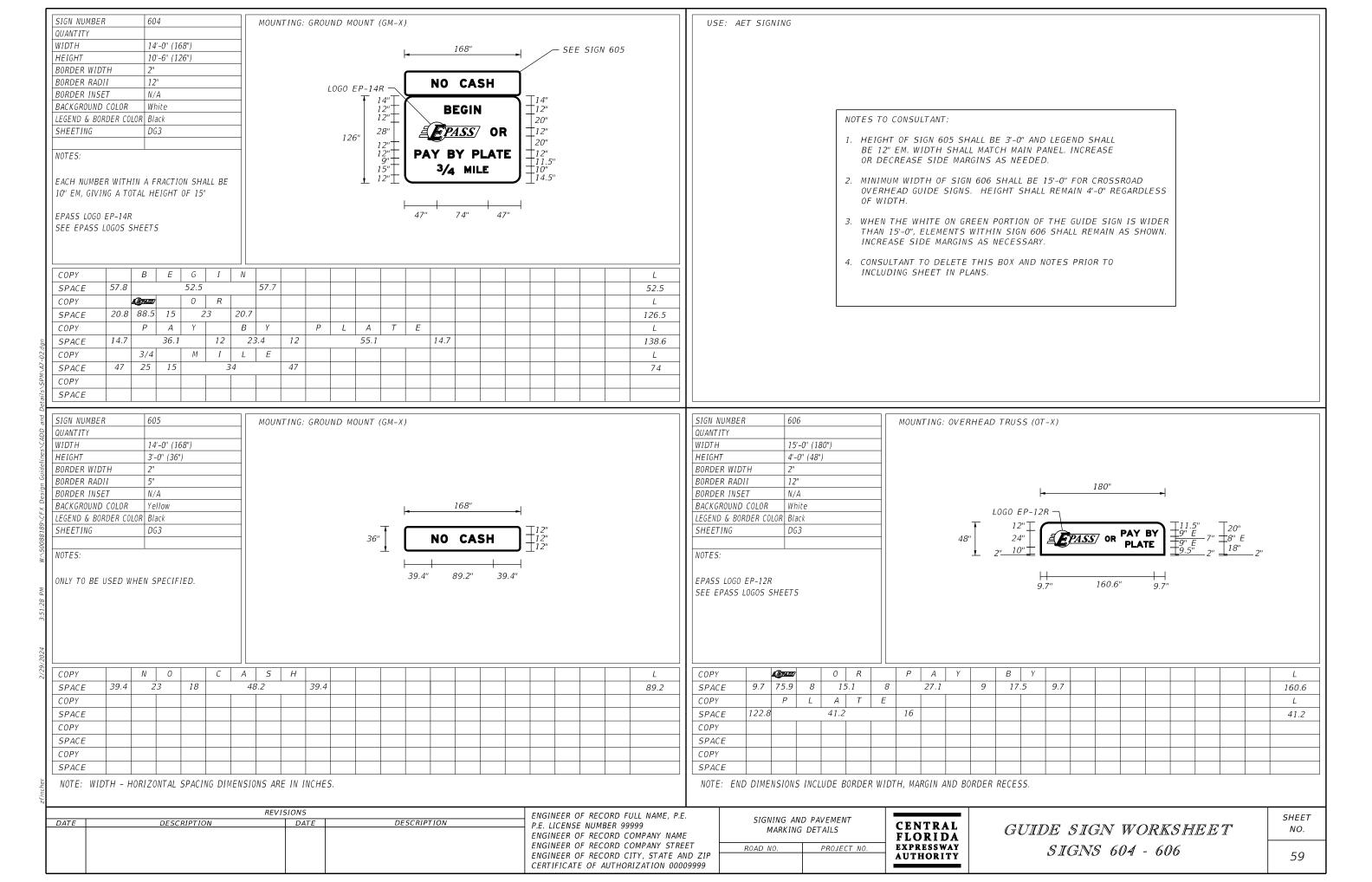
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

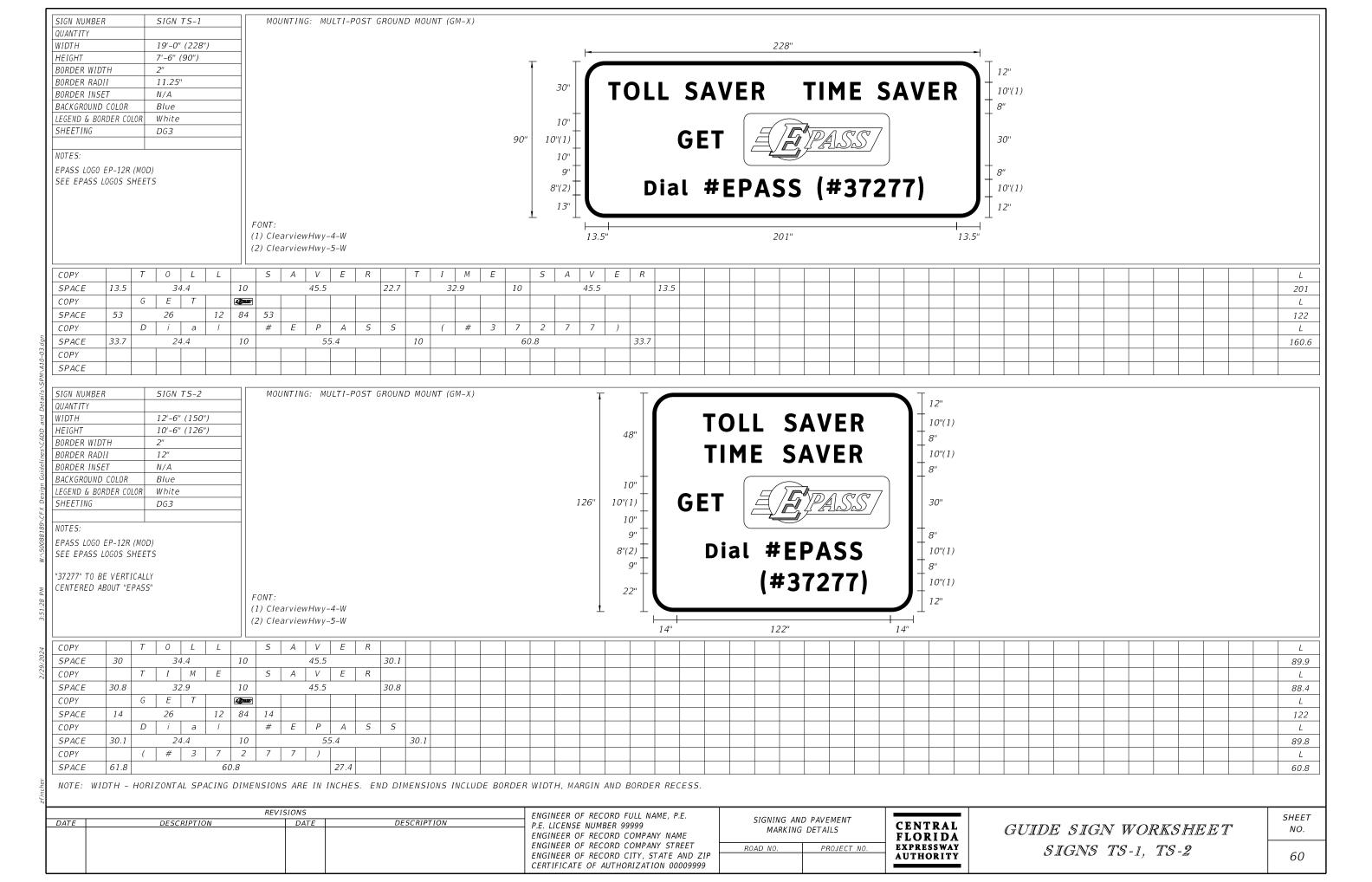
TYPICAL MAINLINE AET
GANTRY APPROACH SIGNING

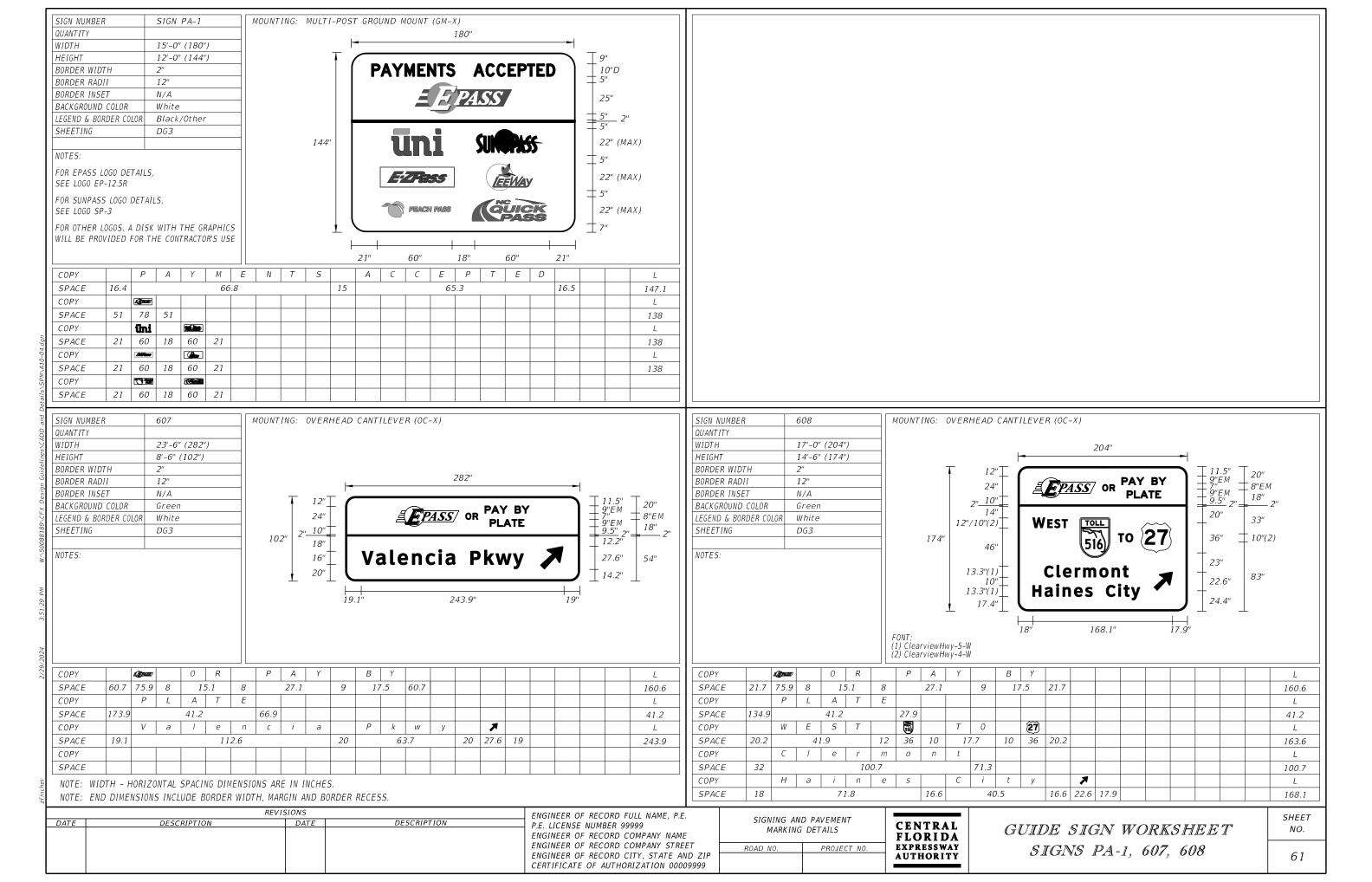
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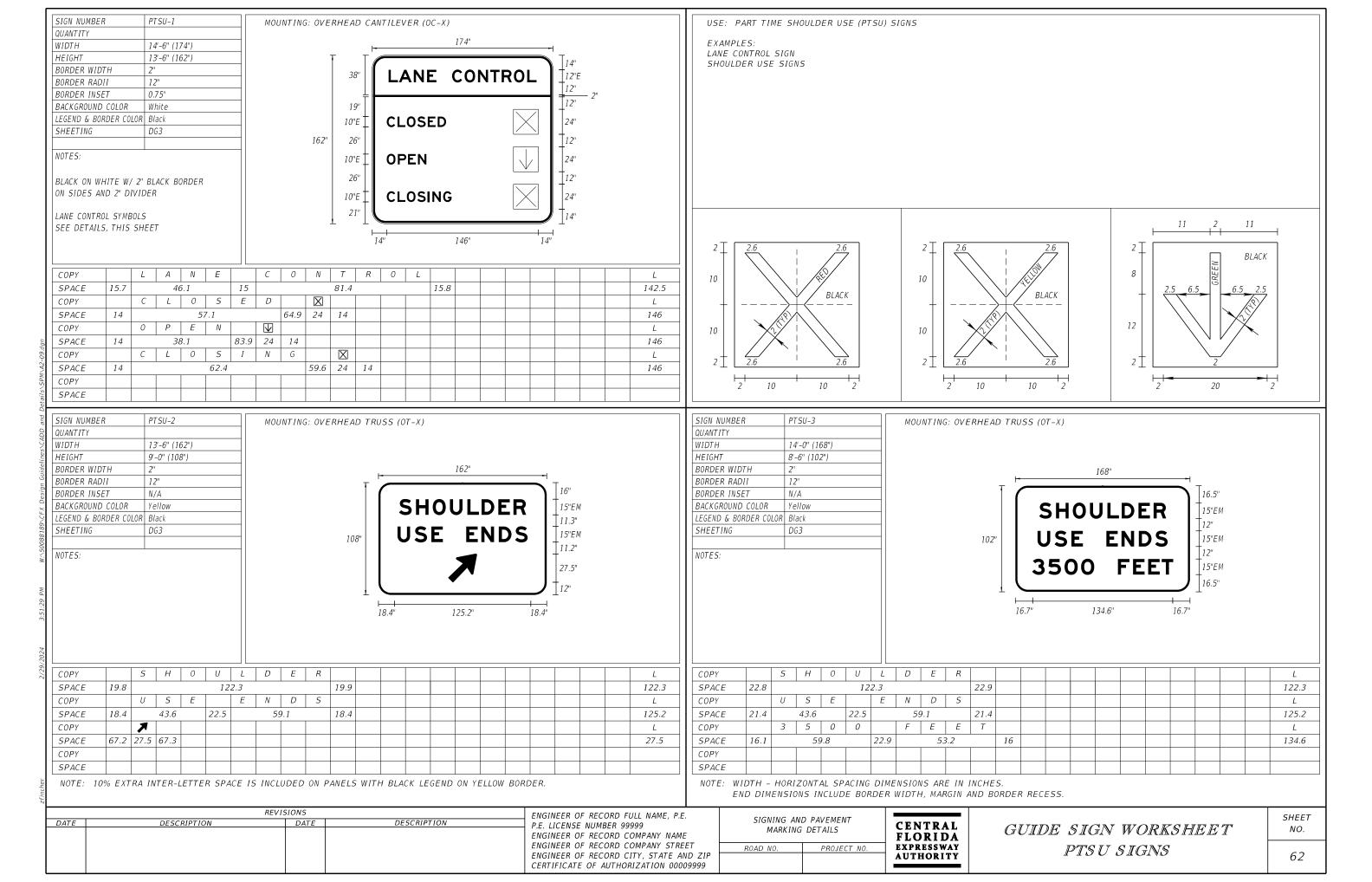


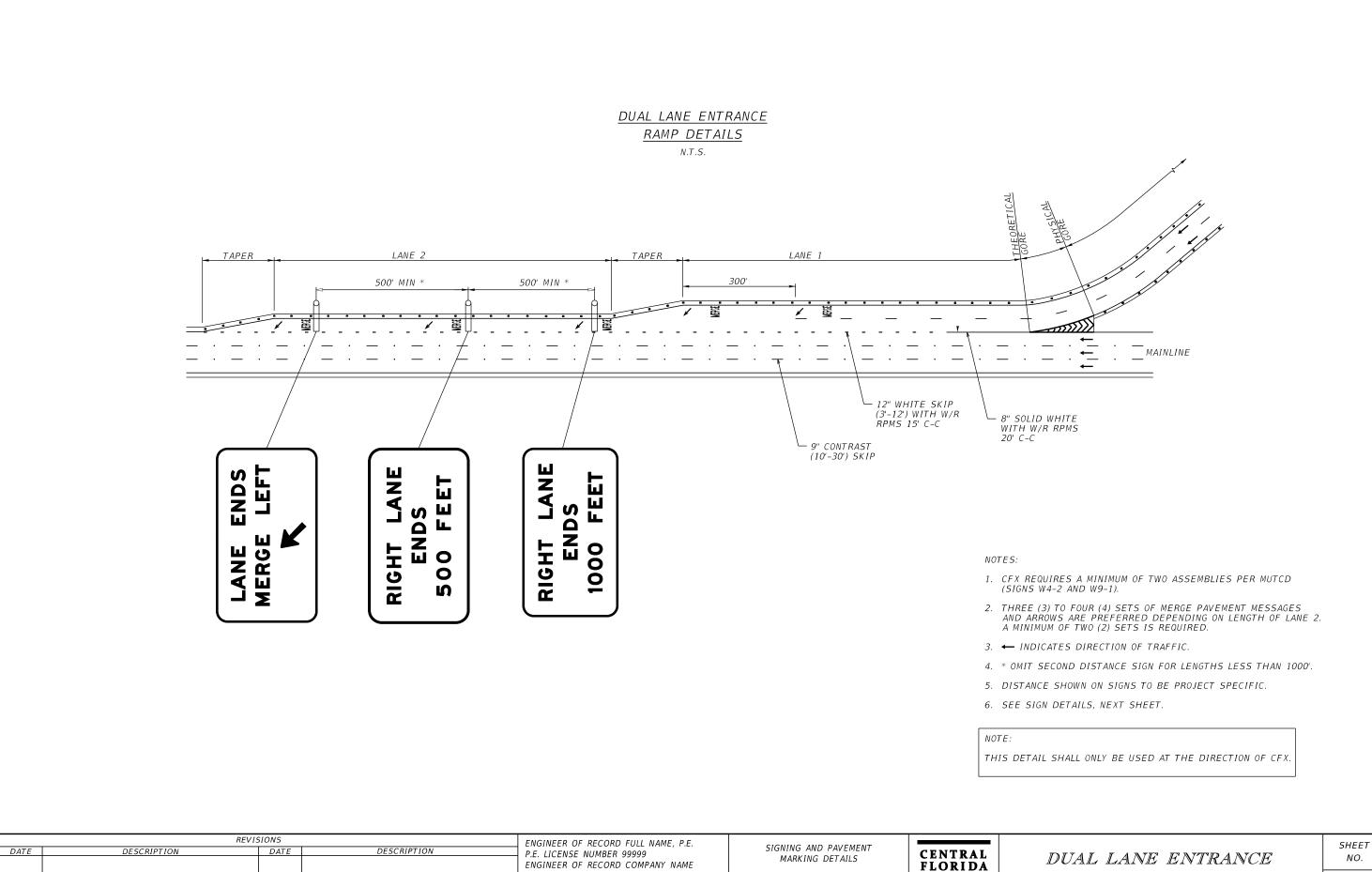












ENGINEER OF RECORD COMPANY STREET

ENGINEER OF RECORD CITY, STATE AND ZIP

CERTIFICATE OF AUTHORIZATION 00009999

ROAD NO.

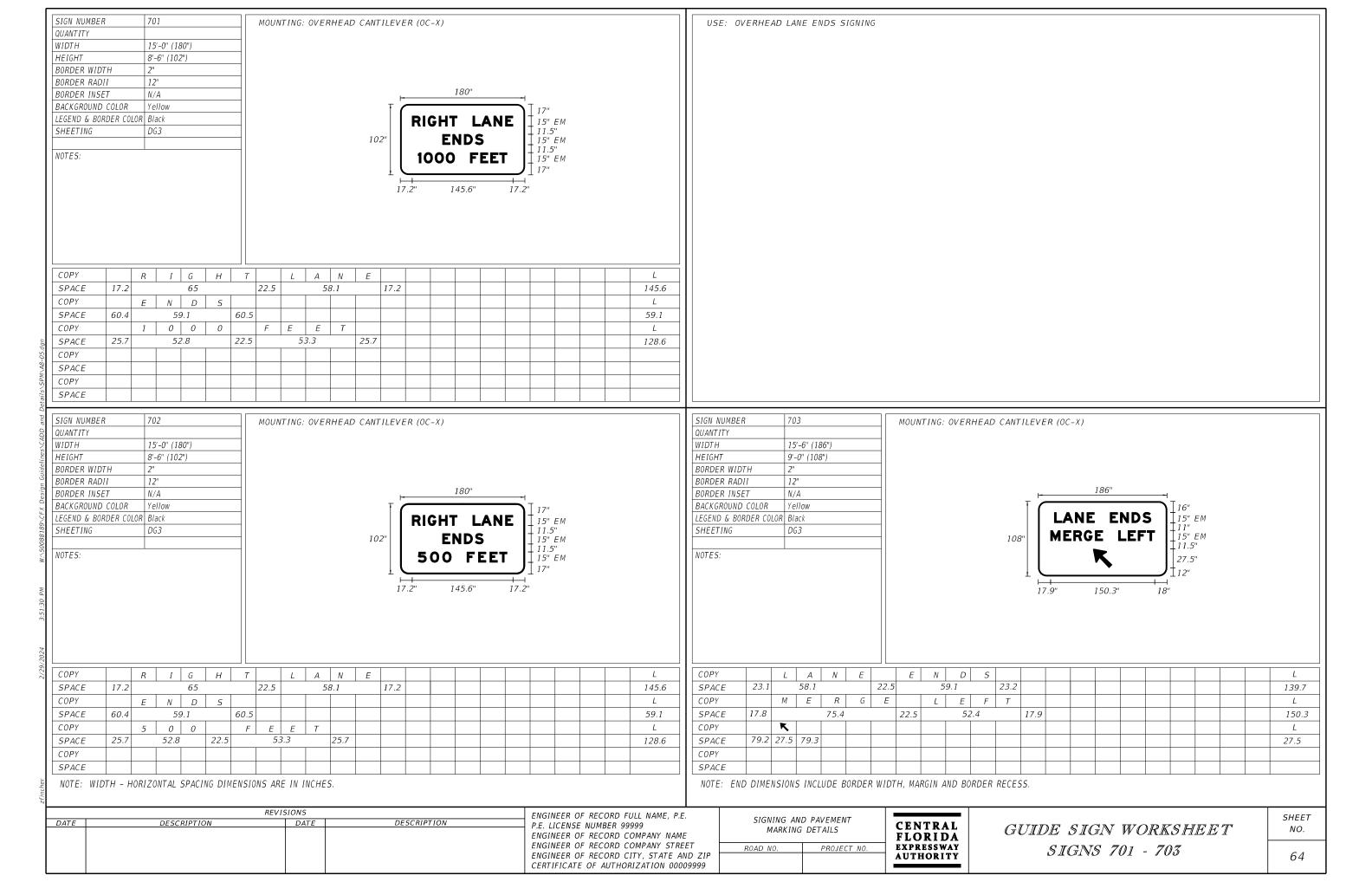
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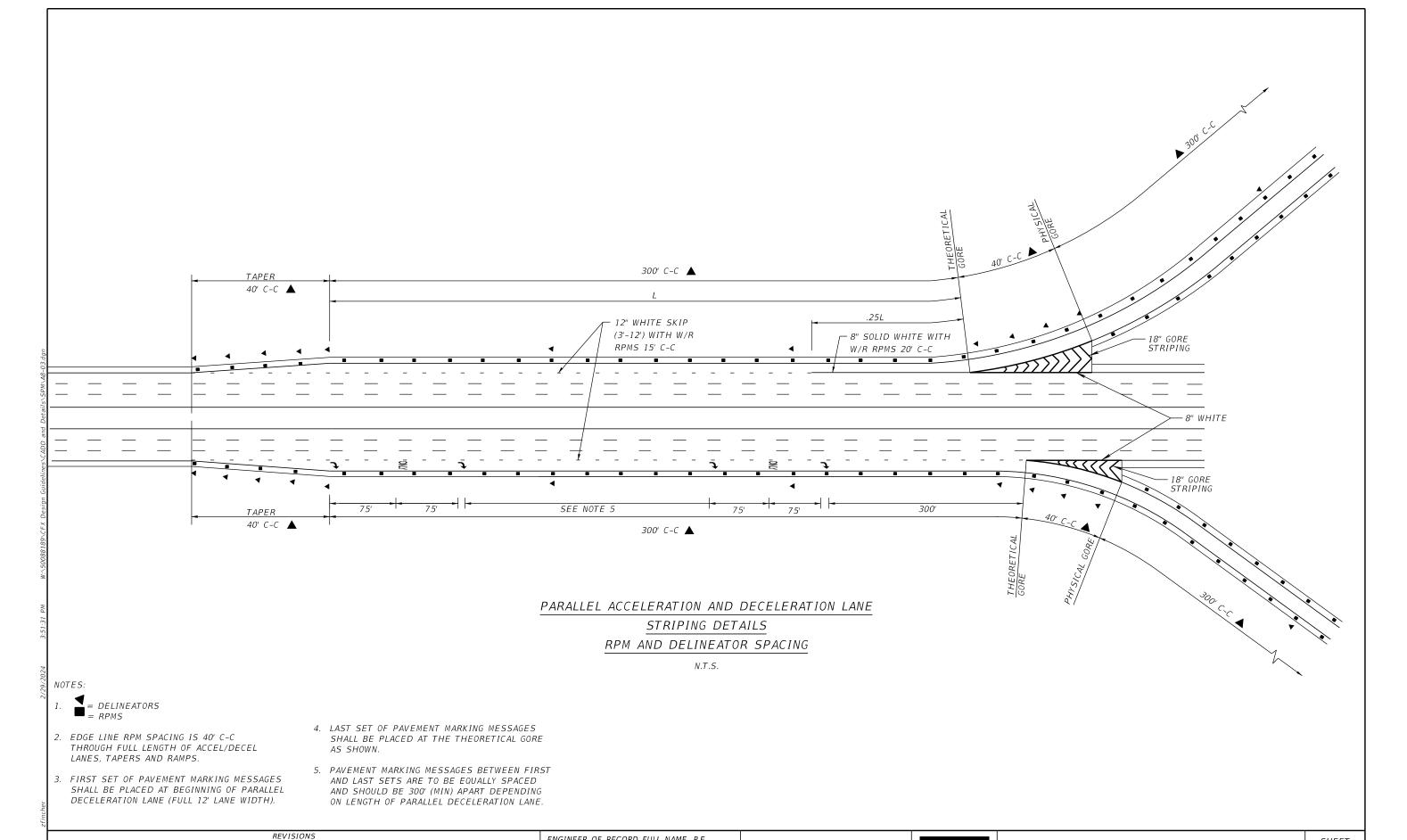
EXPRESSWAY

AUTHORITY

63

RAMP DETAILS





ENGINEER OF RECORD FULL NAME, P.E.

P.E. LICENSE NUMBER 99999

ENGINEER OF RECORD COMPANY NAME
ENGINEER OF RECORD COMPANY STREET
ENGINEER OF RECORD CITY, STATE AND ZIP
CERTIFICATE OF AUTHORIZATION 00009999

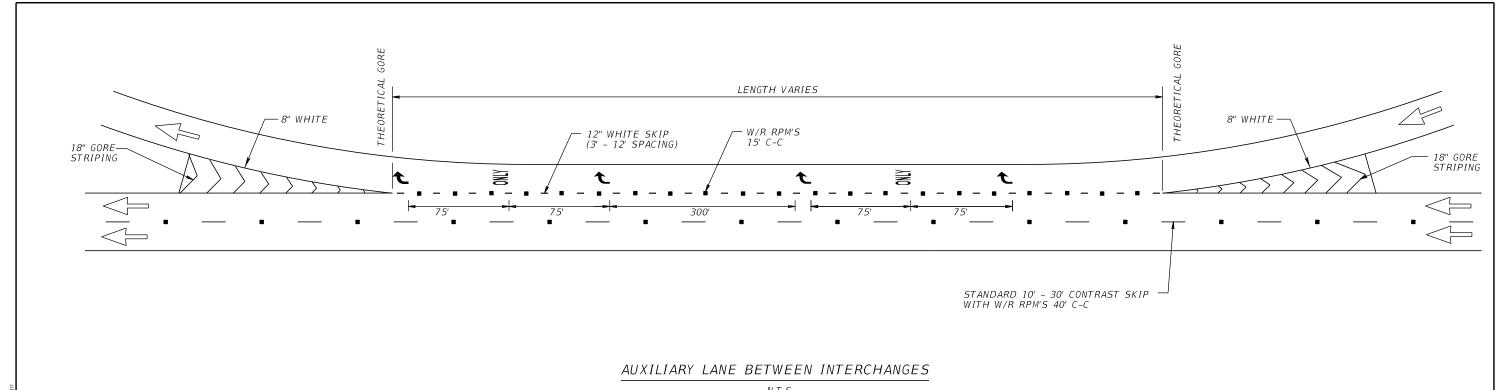
SIGNING AND PAVEMENT MARKING DETAILS

ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TYPICAL PAVEMENT MARKINGS
PARALLEL RAMPS

NO.

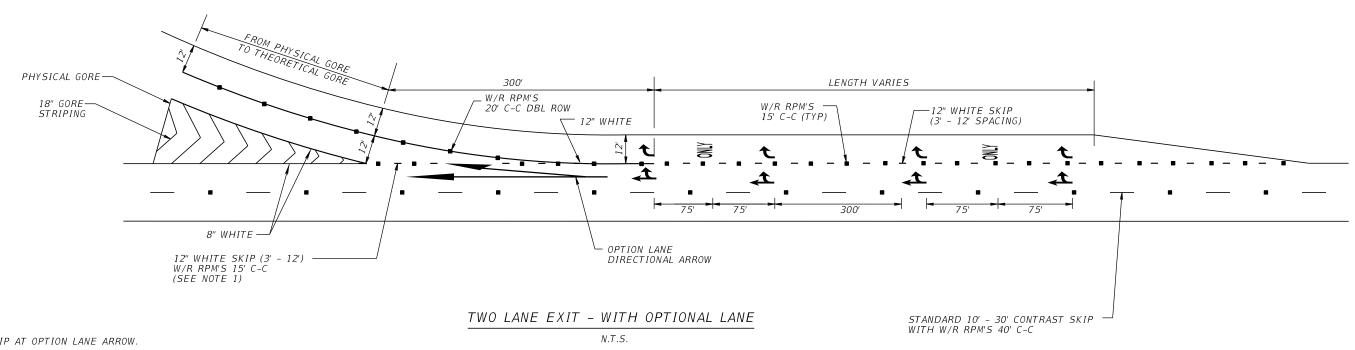


N.T.S.

1. < Indicates direction of traffic.

NOTES:

NOTE:



1. BREAK 3'-12' SKIP AT OPTION LANE ARROW.

2. LAST SET OF PAVEMENT MARKING MESSAGES SHALL BE PLACED AT BEGINNING OF 12" SOLID LINE AS SHOWN.

REVISIONS DESCRIPTION DATE DESCRIPTION

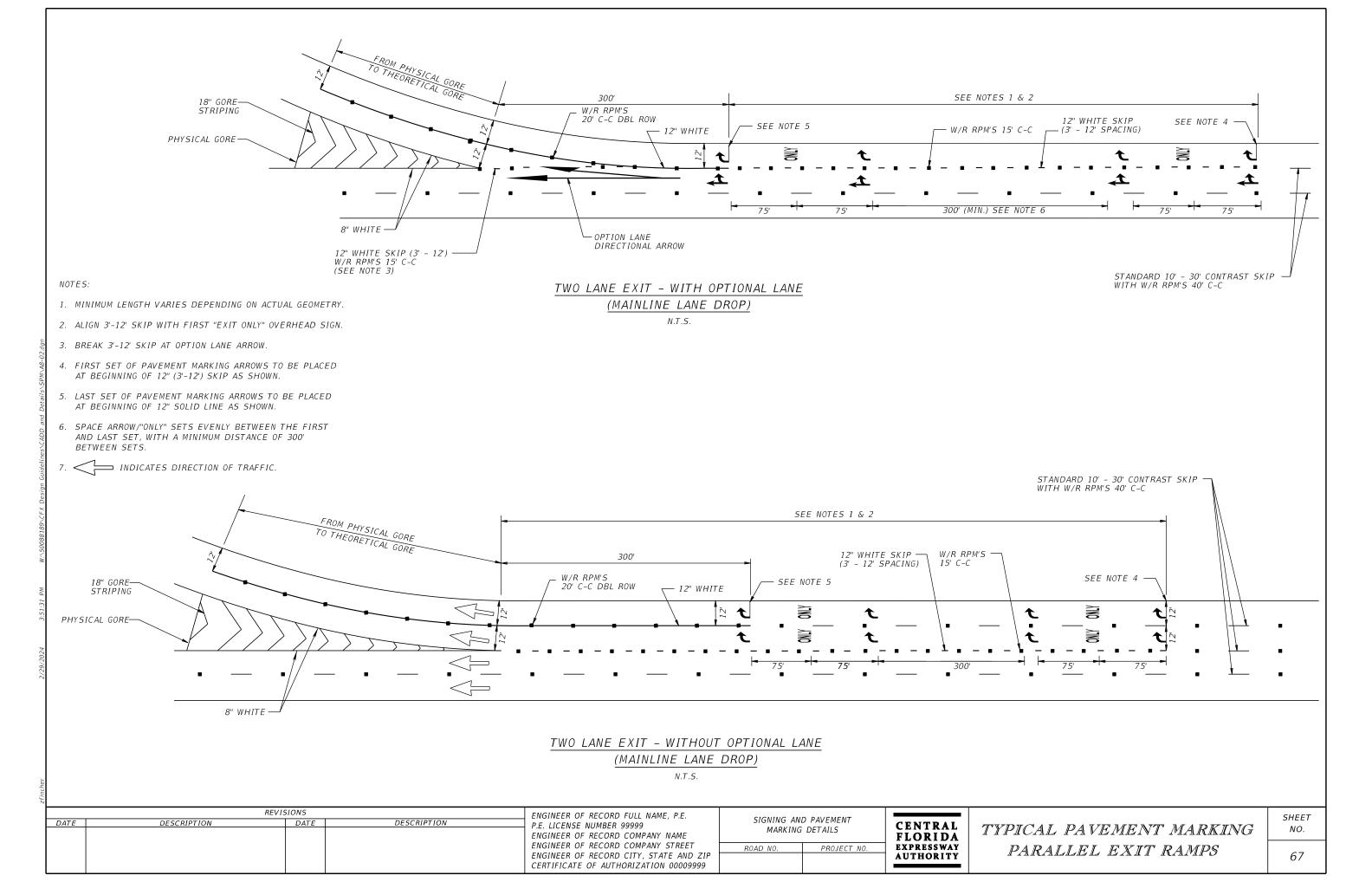
ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

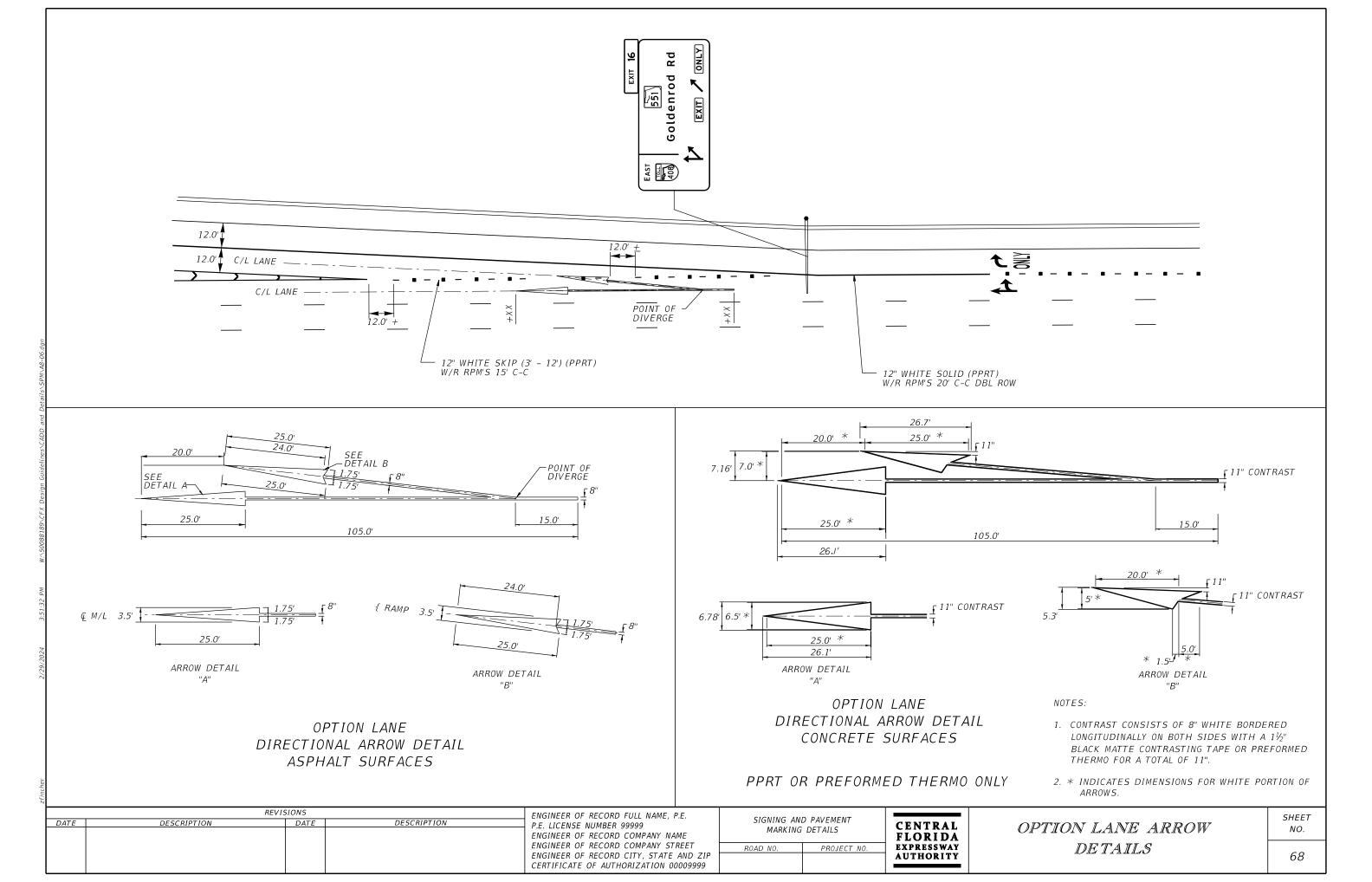
SIGNING AND PAVEMENT MARKING DETAILS ROAD NO. PROJECT NO.

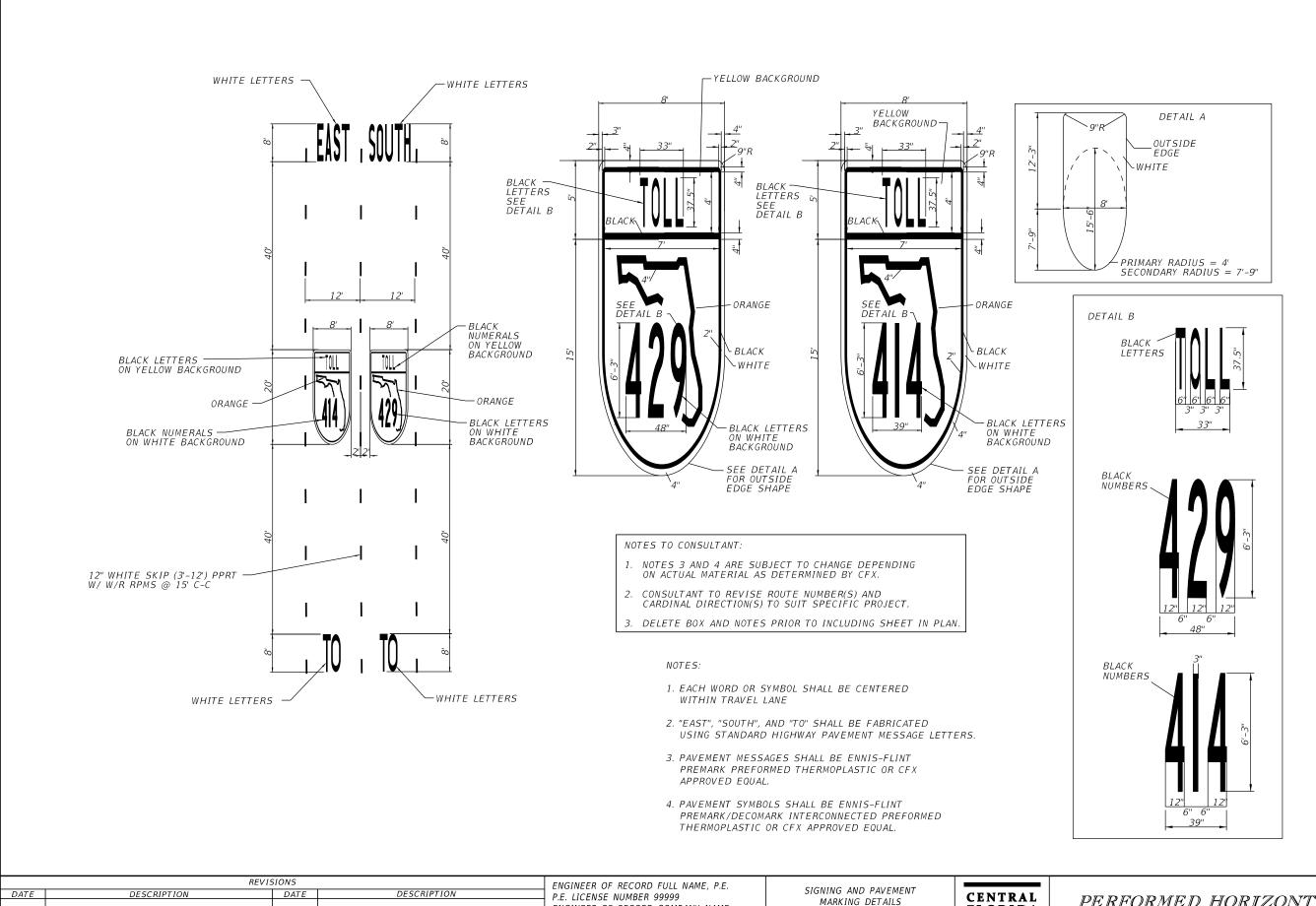
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TYPICAL PAVEMENT MARKING PARALLEL EXIT RAMPS

SHEET NO.







ENGINEER OF RECORD COMPANY NAME

ENGINEER OF RECORD COMPANY STREET

ENGINEER OF RECORD CITY, STATE AND ZIP

CERTIFICATE OF AUTHORIZATION 00009999

ROAD NO.

PROJECT NO.

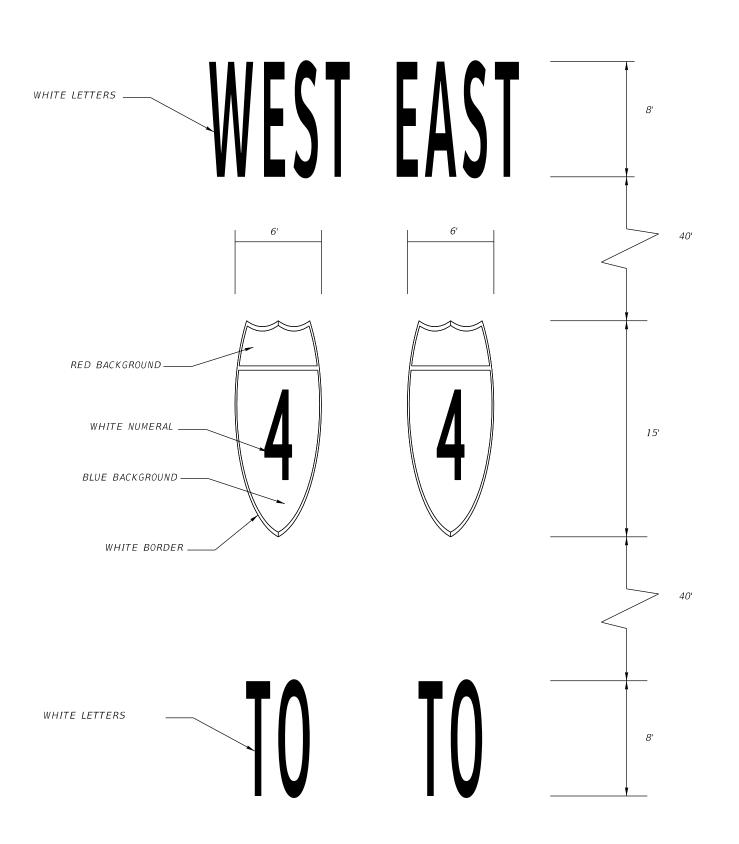
PERFORMED HORIZONTIAL
SIGNING DETAILS (1)

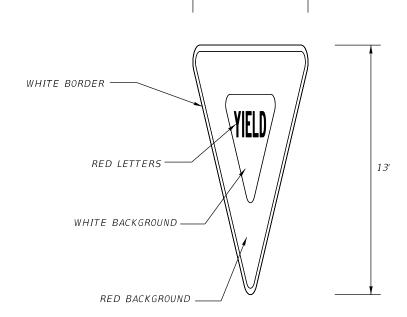
FLORIDA

EXPRESSWAY

AUTHORITY

SHEET





6'

NOTES TO CONSULTANT:

- 1. NOTES 3 AND 4 ARE SUBJECT TO CHANGE DEPENDING ON ACTUAL MATERIAL AS DETERMINED BY CFX.
- 2. CONSULTANT TO REVISE ROUTE NUMBER(S) AND CARDINAL DIRECTION(S) TO SUIT SPECIFIC PROJECT.
- 3. DELETE BOX AND NOTES PRIOR TO INCLUDING SHEET IN PLAN.

NOTES:

- 1. EACH WORD OR SYMBOL SHALL BE CENTERED WITHIN TRAVEL LANE.
- 2. EAST, WEST AND TO SHALL BE FABRICATED USING STANDARD HIGHWAY PAVEMENT MESSAGE LETTERS.
- 3. PAVEMENT MESSAGES SHALL BE ENNIS-FLINT PREMARK PREFORMED THERMOPLASTIC OR CFX APPROVED EQUAL.
- 4. PAVEMENT SYMBOLS SHALL BE ENNIS-FLINT PREMARK/DECOMARK INTERCONNECTED PREFORMED THERMOPLASTIC OR CFX APPROVED EQUAL.

REVISIONS					
DATE	DESCRIPTION	DATE	DESCRIPTION	EI P.	
				EI	
				E i	
				Ei	
				CI	

ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 99999
ENGINEER OF RECORD COMPANY NAME
ENGINEER OF RECORD COMPANY STREET
ENGINEER OF RECORD CITY, STATE AND ZIP
CERTIFICATE OF AUTHORIZATION 00009999

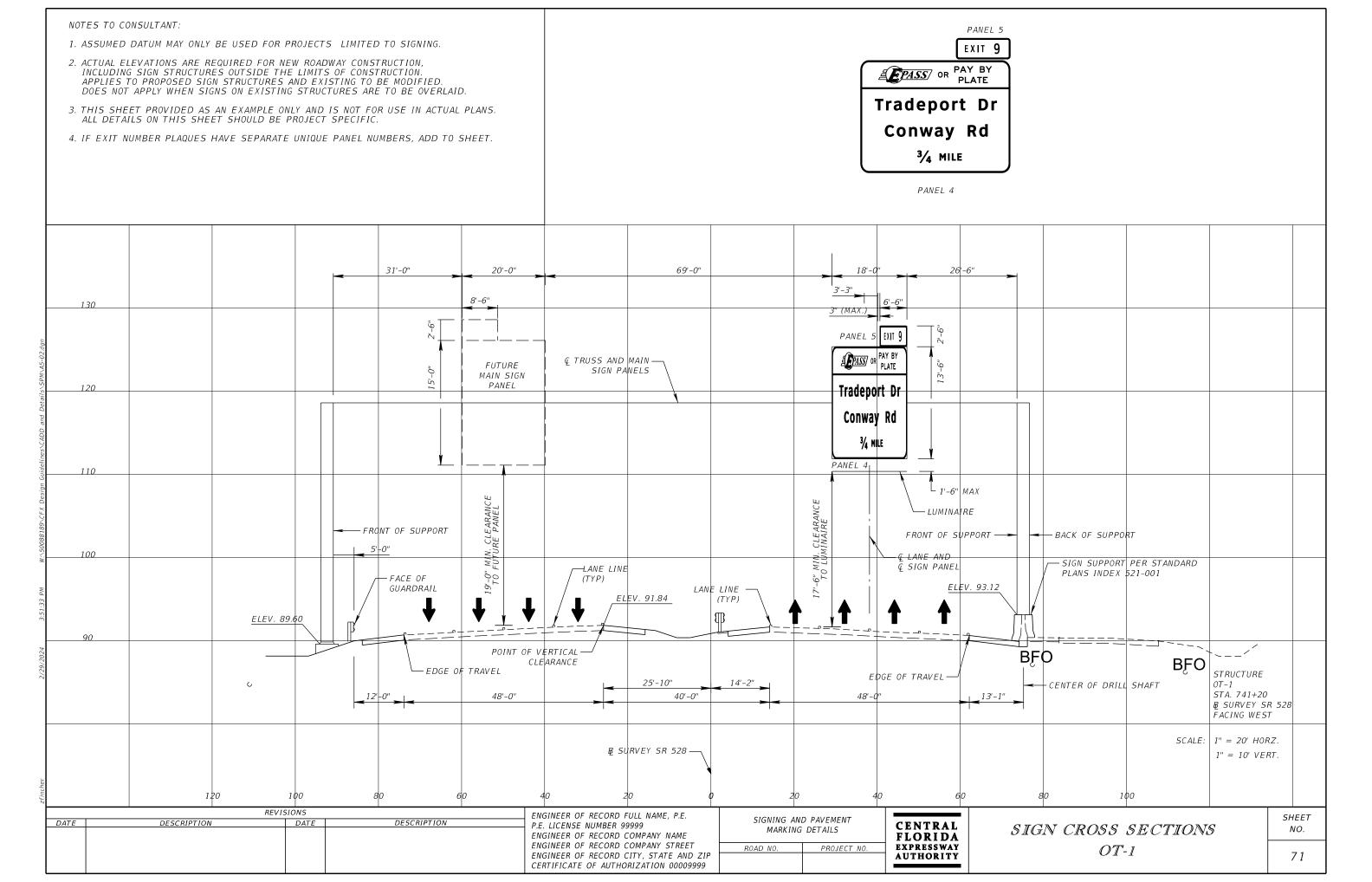
SIGNING AND PAVEMENT MARKING DETAILS

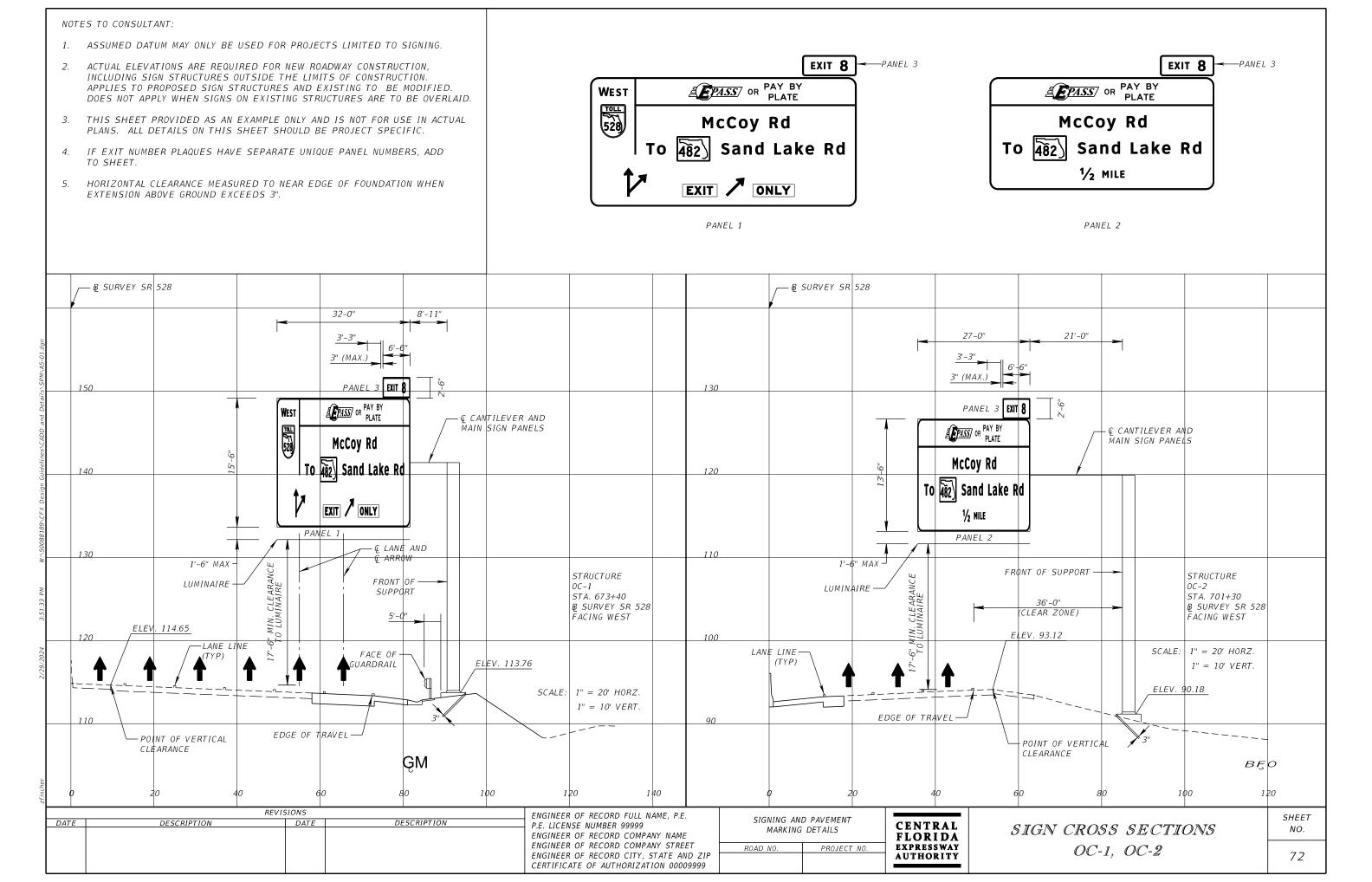
PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY PREFORMED HORIZONTAL
SIGNING DETAILS (2)

SHEET NO.

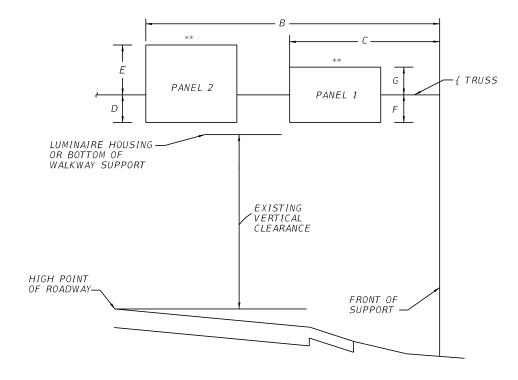




STRUCTURE	DESCRIPTION	STATION	PANEL 1			PANEL 2		PANEL LOCATION					
NUMBER			NO.	DIMENSION	NO.	DIMENSION	(B)	(C)	(D)	(E)	(F)	(G)	
OT-2	SPAN	1238+75	105A	21'-6" X 7'-0"	105B	21'-6" X 18'-0"	52'-9"	28'-3"	8'-3"	9'-9"	8'-3"	8'-3"	
OT-17	SPAN	1478+43	170	19'-6" X 9'-0"			69'-6"						

LOCATION DATA FOR PROPOSED PANELS ON EXISTING STRUCTURES

** SEE GUIDE SIGN WORKSHEET FOR SIGNS WITH AN EXIT NUMBER PANEL. EXIT NUMBER PANELS SHALL BE INSTALLED IN COMPLIANCE WITH INDEX 700-110.



SCHEMATIC ELEVATION

NOTES TO CONSULTANT:

- 1. OT-2 AND OT-17 SHOWN FOR EXAMPLE PURPOSES ONLY.
- 2. ADD OR DELETE NOTES AND/OR COLUMNS, AS NECESSARY FOR SPECIFIC PROJECT.
- 3. ADD PAY ITEM NOTE(S) ON APPROPRIATE SHEET ADDRESSING ITEMS 2 AND 3 IN NOTES ON THIS SHEET.
- 4. REMOVE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

NOTES:

1. 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.

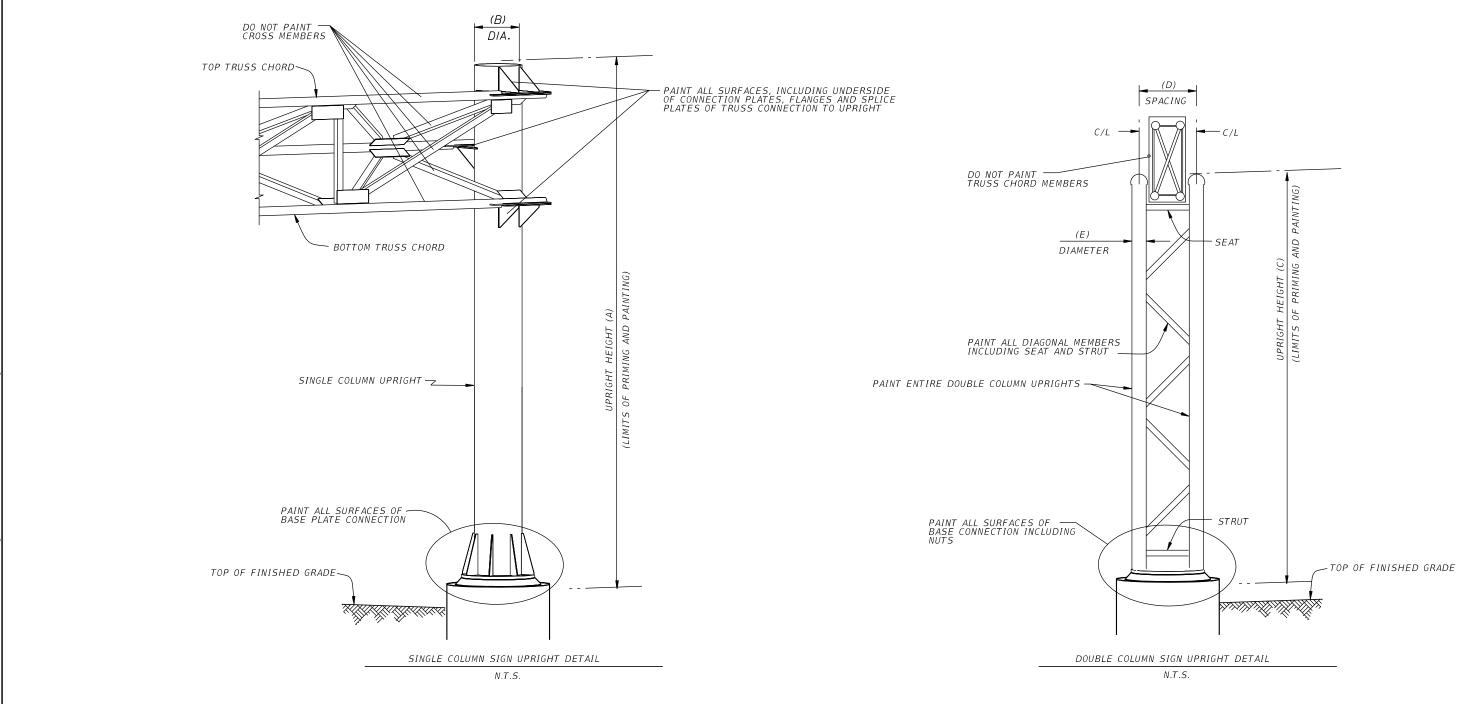
	REVIS	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DESCRIPTION	P.E. LICENSE NUMBER 99999	
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND ZIP
				CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY PANEL LOCATIONS ON EXISTING STRUCTURES SHEET NO.



NOTES TO CONSULTANT:

- 1. CONSULTANT SHALL DETERMINE ALL DATA IN TABLE OF VARIABLES IF NOT PROVIDED IN DESIGN OR SHOP DRAWINGS. DATA SHOWN IS FOR EXAMPLE PURPOSES ONLY.
- 2. NUMBER OF DIAGONALS SHOWN IN DOUBLE COLUMN UPRIGHT DETAIL FOR GRAPHIC PURPOSES ONLY.
- 3. DELETE THIS BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

TABLE OF UPRIGHT PAINTING VARIABLES																	
				SINGLE COL	.UMN UPRIGI	ЧТ		D0UBLE -	COLUMN UPF	RIGHT							NO.
STRUCTURE	STATION	STRUCTURE	HEI (,	GHT 4)	DIAM ()	ETER B)	HEI (C			CING D)		IETER E)	N		ONALS D	DIA.	UPRIGHTS
NUMBER		TYPE	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	PER STR.
OC-1	3+00	CANTILEVER		31'-4"		24"											1
OT-3	11+00	SPAN TRUSS	38'-1 7/8"	37'-1 3/4"	36"	36"											2
EXISTING	19+00	SPAN TRUSS					26'-9"	27'-6"	5'-9"	5'-9"	14"	14"	6	7	4.5"	4.5"	2

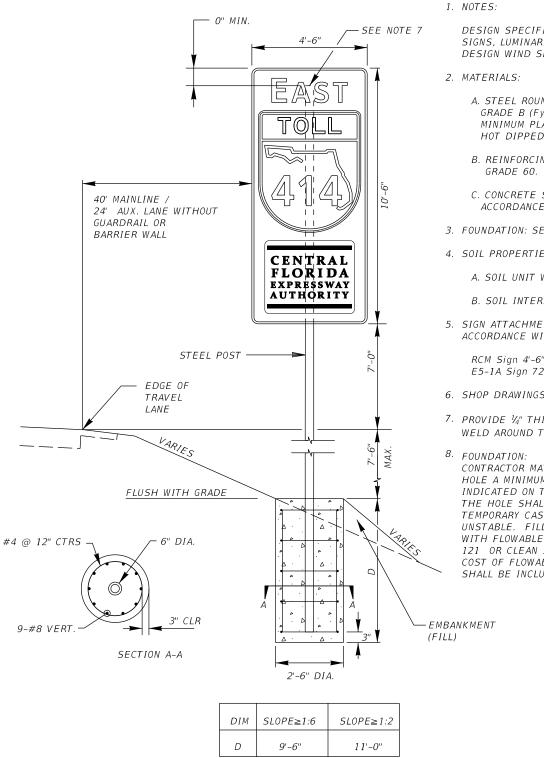
	REVIS	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DESCRIPTION	P.E. LICENSE NUMBER 99999	
				ENGINEER OF RECORD COMPANY NAME
				ENGINEER OF RECORD COMPANY STREET
				ENGINEER OF RECORD CITY, STATE AND ZIP
				CERTIFICATE OF AUTHORIZATION 00009999

SIGNING AND MARKING	
POAD NO	PROJECT NO

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SIGN UPRIGHT PAINTING

SHEET NO.



DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS. AASHTO LRFD, 1ST ED, 2018. DESIGN WIND SPEED = 110 MPH

- A. STEEL ROUND POST SHALL CONFORM TO ASTM A500 GRADE B (Fy = 42 KSI), 6" SCHEDULE 80 PIPE MINIMUM PLASTIC SECTION MODULUS OF $Z_{i} = 12.1 \text{ in}^3$ (COMPACT SECTION) HOT DIPPED GALVANIZED PER ASTM A123.
- B. REINFORCING STEEL SHALL CONFORM TO ASTM A615
- 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 700-020.
- 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 700-101.

RCM Sign 4'-6" x 10'-6" : 5 BRACKETS E5-1A Sign 72" x 60" : 3 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.
- CONTRACTOR MAY USE PRECAST FOUNDATION IN PRE-DRILLED HOLE A MINIMUM OF 12" LARGER THAN THE FOUNDATION INDICATED ON THE PLANS IN EITHER WET OR DRY CONDITIONS. THE HOLE SHALL BE CLEAN AND WITHOUT LOOSE MATERIAL. TEMPORARY CASING SHALL BE REQUIRED IF THE SOIL IS UNSTABLE. FILL THE VOID AROUND THE PRECAST FOUNDATION WITH FLOWABLE FILL MEETING THE REQUIREMENTS OF SECTION 121 OR CLEAN SAND PLACED USING HYDRAULIC METHODS. THE COST OF FLOWABLE FILL, INSTALLING AND REMOVAL OF CASING SHALL BE INCLUDED IN THE COST OF THE SIGN.

NOTES TO CONSULTANT:

EDGE OF

TRAVEL

LANE

1. STRUCTURAL DESIGN INFORMATION SHOWN IS FOR EXAMPLE PURPOSES ONLY. CONSULTANT IS FULLY RESPONSIBLE FOR PROJECT SPECIFIC STRUCTURE DESIGN(S). CONSULTANT SHALL DESIGN ROUTE CONFIRMATION MARKERS FOR SINGLE POST MOUNTING.

14' MIN

6" ∅ x ¼" WALL THICK. -

ALUMINUM POST PER

INDEX 700-010

VARIES

FLUSH WITH GRADE

- SPECIFIC TO PROJECT.
- 3. CONSULTANT SHALL REVISE NOTE 1 TO INCLUDE APPLICABLE FDOT STRUCTURES

- 2. CONSULTANT TO REVISE CARDINAL DIRECTION AND SHOW ROUTE NUMBER
- 4. DELETE THIS BOX AND NOTES PRIOR TO INCLUDING SHEET IN PLANS.

	REVI	ENGINEER OF RECORD FULL NAME, P.E.		
DATE	DESCRIPTION	DESCRIPTION	P.E. LICENSE NUMBER 99999	
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COST, TO INSTALL THE DRILLED SHAFT FOUNDATION WITHOUT DAMAGING THE MSE WALL STRAPS.

TO ACCOMODATE PLACEMENT OF THE DRILLED SHAFT FOUNDATION FOR ANY SIGN STRUCTURES LOCATED ADJACENT TO MSE WALL, A 2'-6"

DIAMETER GALVANIZED CORROGATED METAL PIPE SHALL BE PLACED IN THE FILL SLOPE AT THE LOCATION OF THE DRILLED SHAFT. THIS WILL ALLOW THE FOUNDATION TO BE INSTALLED WITHOUT DAMAGING THE MSE WALL STRAPS. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE CORRESPONDING SINGLE POST SIGN STRUCTURE. THE CONTRACTOR MAY PROPOSE ALTERNATE METHODS, AT NO ADDITIONAL

> SIGNING AND PAVEMENT MARKING DETAILS ROAD NO. PROJECT NO.

CENTRAL **FLORIDA EXPRESSWAY AUTHORITY**

ROUTE MARKER AND EXIT ASSEMBLY DETAILS

2'-6" DIA.

SHEET NO.

6' MIN

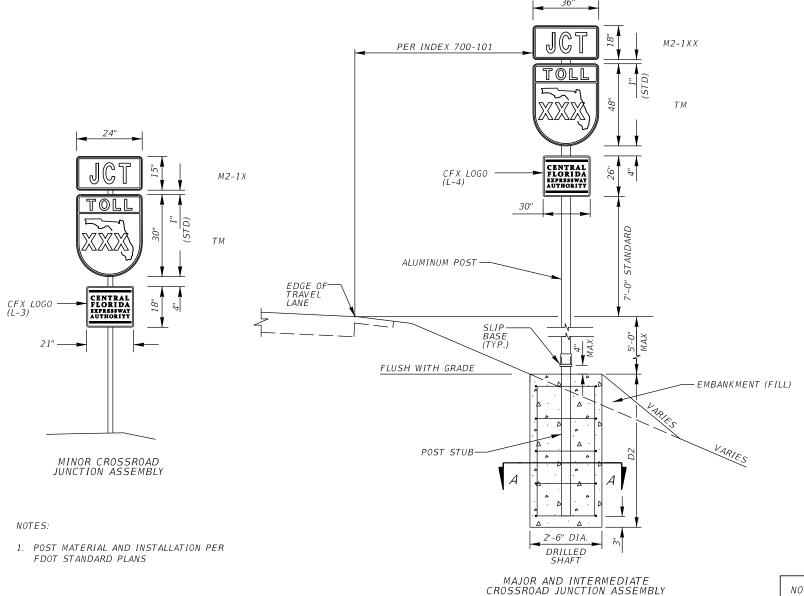
EDGE OF

RAMP

TRAVEL

SLIP BASE PER

INDEX 700-010



NOTES:

- 1. DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS. AASHTO LRFD, 1ST ED, 2018 DESIGN WIND SPEED = 110 MPH
- 2. MATERIAL:

A. ALUMINUM: SEE NOTES IN FDOT INDEX 700-010.
COLUMN SIZE SHALL BE 6" DIAMETER WITH 1/4" WALL THICKNESS.

- B. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
- C. CONCRETE SHALL BE CLASS II.
- 3. FOUNDATION: SEE FDOT INDEX 700-020 FOR DETAILS.
- 4. SOIL PROPERTIES USED IN THE DESIGN:
 - A. SOIL UNIT WEIGHT: 50 PCF
 - B. SOIL INTERNAL FRICTION ANGLE: 30 DEGREES
- 5. SIGN ATTACHMENT BRACKETS SHALL BE IN ACCORDNCE WITH FDOT ROADWAY INDEX 700-010.

TOLL SHIELD: 48" X 36" AND 30" X 24" - 3 BRACKETS

TOP AUXILIARY PANELS: 18" X 48" AND 18" X 36" - 2 BRACKETS

CFX LOGO: 18" x 21" AND 26" X 30" - 2 BRACKETS

6. SUBMIT SHOP DRAWINGS FOR THE ASSEMBLY.

NOTES TO CONSULTANT:

- 1. STRUCTURAL DESIGN INFORMATION SHOWN IS FOR EXAMPLE PURPOSES ONLY. CONSULTANT IS FULLY RESPONSIBLE FOR PROJECT SPECIFIC STRUCTURE DESIGN(S). CONSULTANT SHALL DESIGN JUNCTION ASSEMBLIES FOR SINGLE POST MOUNTING.
- 2. CONSULTANT TO SHOW ROUTE NUMBER SPECIFIC TO PROJECT.
- 3. TM SHALL BE USED ON TRAILBLAZER ASSEMBLIES.
- 4. CONSULTANT SHALL REVISE NOTE 1 TO INCLUDE APPLICABLE FDOT STRUCTURES MANUAL EDITION.
- 5. DELETE THIS BOX AND NOTES PRIOR TO INCLUDING SHEET IN PLANS.

SL0PE**≤** 1:4

SL0PE**≤** 1:2

9'-0"

DIM

REVISIONS

DATE DESCRIPTION

DATE DESCRIPTION

DATE DESCRIPTION

P.E. LICENSE NUMBER 99999

ENGINEER OF RECORD COMPANY NAME

ENGINEER OF RECORD COMPANY STREET

ENGINEER OF RECORD CITY, STATE AND ZIP

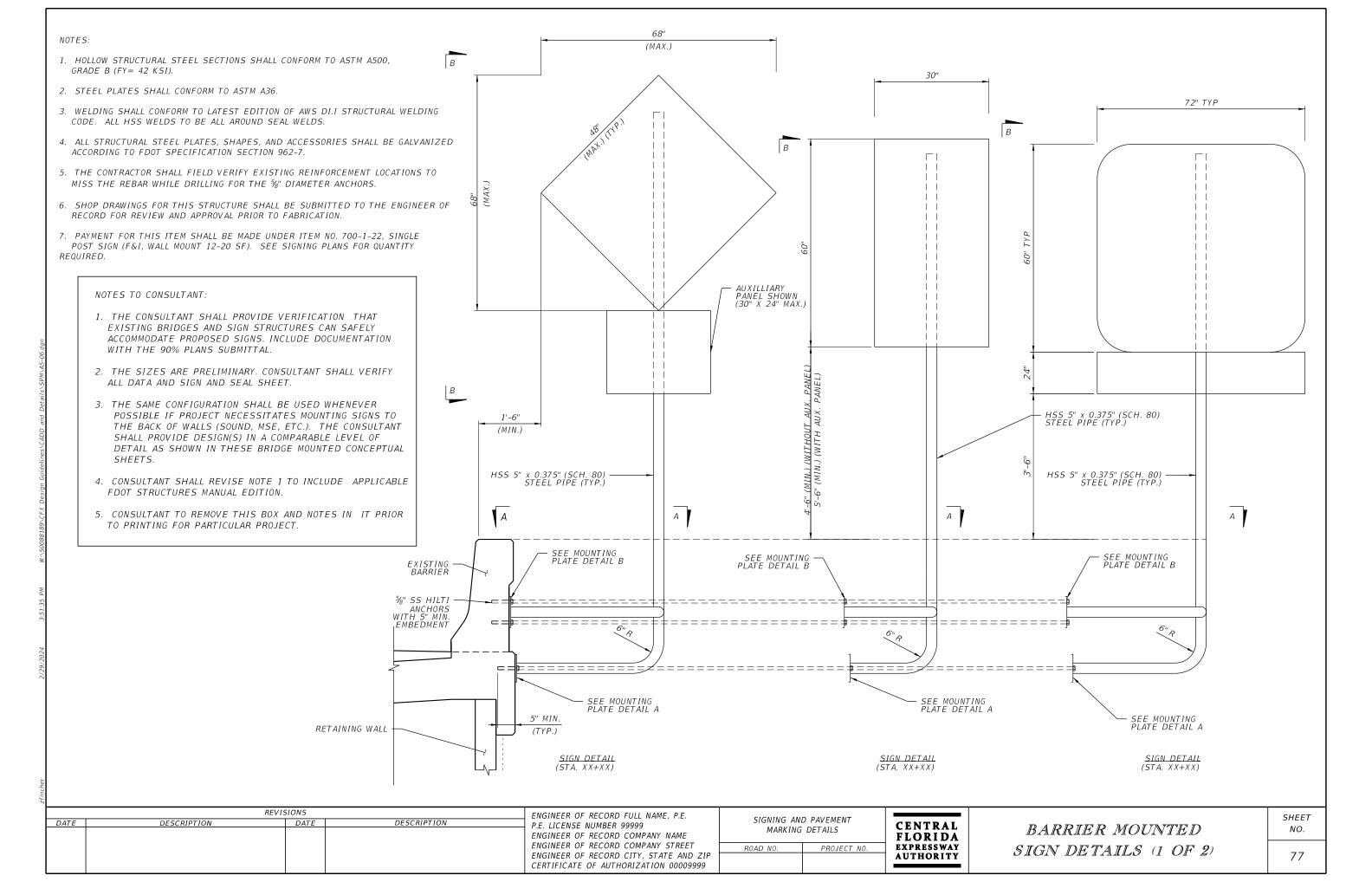
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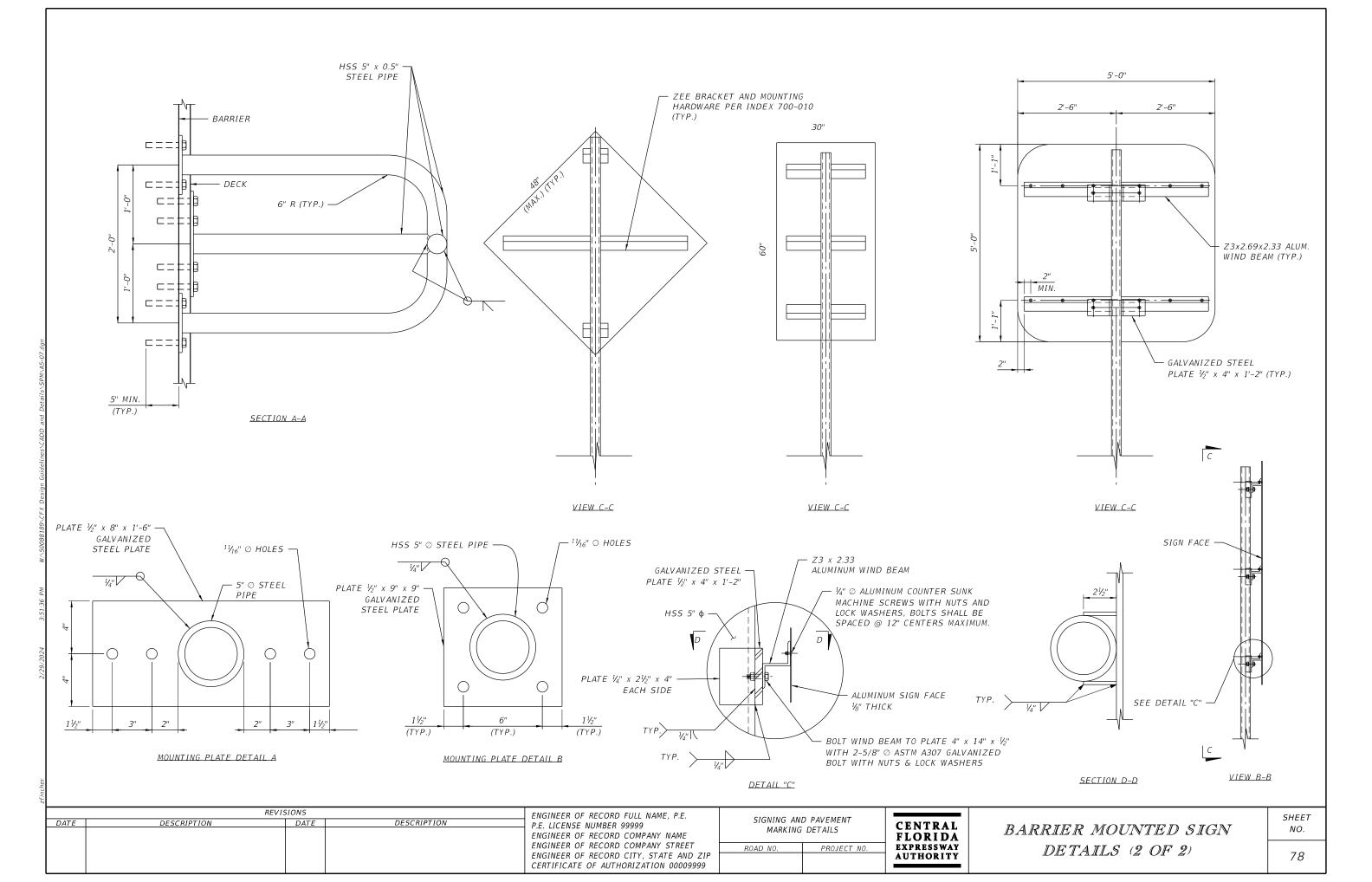
SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY TRAILBLAZER ASSEMBLY -ALUMINUM SHEET NO.

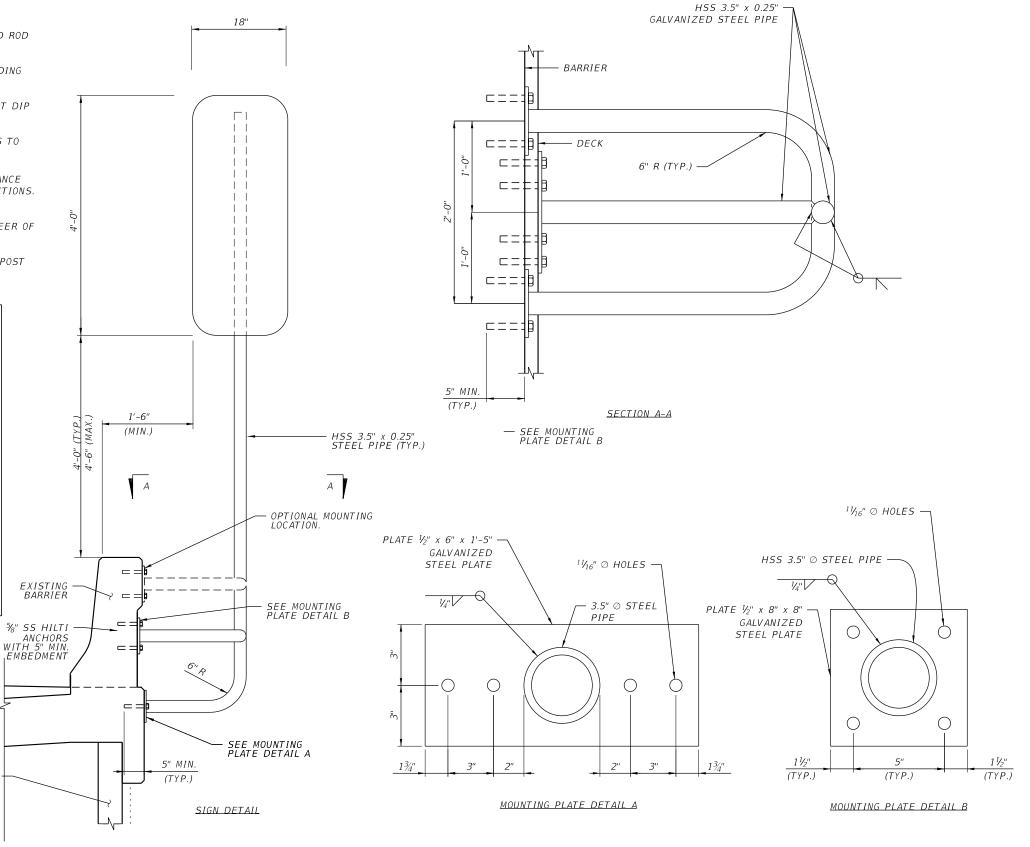




- 3. ALL ANCHORS SHALL BE 5/8" DIAMETER A36 ADHESIVE ANCHORED THREADED ROD WITH WASHER AND SELF-LOCKING NUT.
- 4. WELDING SHALL CONFORM TO LATEST EDITION OF AWS DI.I STRUCTURAL WELDING CODE. ALL HSS WELDS TO BE ALL AROUND SEAL WELDS.
- 5. COATINGS: BOLTS, NUTS, AND WASHER ASTM F2329. ALL OTHER STEEL HOT DIP GALVANIZED.
- 6. THE CONTRACTOR SHALL FIELD VERIFY EXISTING REINFORCEMENT LOCATIONS TO MISS THE REBAR WHILE DRILLING FOR THE $\frac{7}{8}$ " DIAMETER ANCHORS.
- 7. THE INSTALLATION OF THE ADHESIVE THREADED ROD SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 416 AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. USE HSHV ADHESIVE ON APL.
- 8. 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 INCLUDED IN THE COST OF THE SINGLE POST SIGN ASSEMBLY. SEE SIGNING PLANS FOR QUANTITY REQUIRED.

NOTES TO CONSULTANT:

- 1. THE CONSULTANT SHALL PROVIDE VERIFICATION THAT EXISTING BRIDGES AND SIGN STRUCTURES CAN SAFELY ACCOMMODATE PROPOSED SIGNS. INCLUDE DOCUMENTATION WITH THE 90% PLANS SUBMITTAL.
- 2. THE SIZES ARE PRELIMINARY. CONSULTANT SHALL VERIFY ALL DATA AND SIGN AND SEAL SHEET.
- 3. THE SAME CONFIGURATION SHALL BE USED WHENEVER POSSIBLE IF PROJECT NECESSITATES MOUNTING SIGNS TO THE BACK OF WALLS (SOUND, MSE, ETC.). THE CONSULTANT SHALL PROVIDE DESIGN(S) IN A COMPARABLE LEVEL OF DETAIL AS SHOWN IN THESE BRIDGE MOUNTED CONCEPTUAL SHEETS.
- 4. CONSULTANT SHALL REVISE NOTE 1 TO INCLUDE APPLICABLE FDOT STRUCTURES MANUAL EDITION.
- 5. CONSULTANT TO REMOVE THIS BOX AND NOTES IN IT PRIOR TO PRINTING FOR PARTICULAR PROJECT.



RETAINING WALL (BRIDGE DECK SIMILAR)

ENGINEER OF RECORD FULL NAME, P.E.

P.E. LICENSE NUMBER 99999

ENGINEER OF RECORD COMPANY NAME

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CERTIFICATE OF AUTHORIZATION 00009999

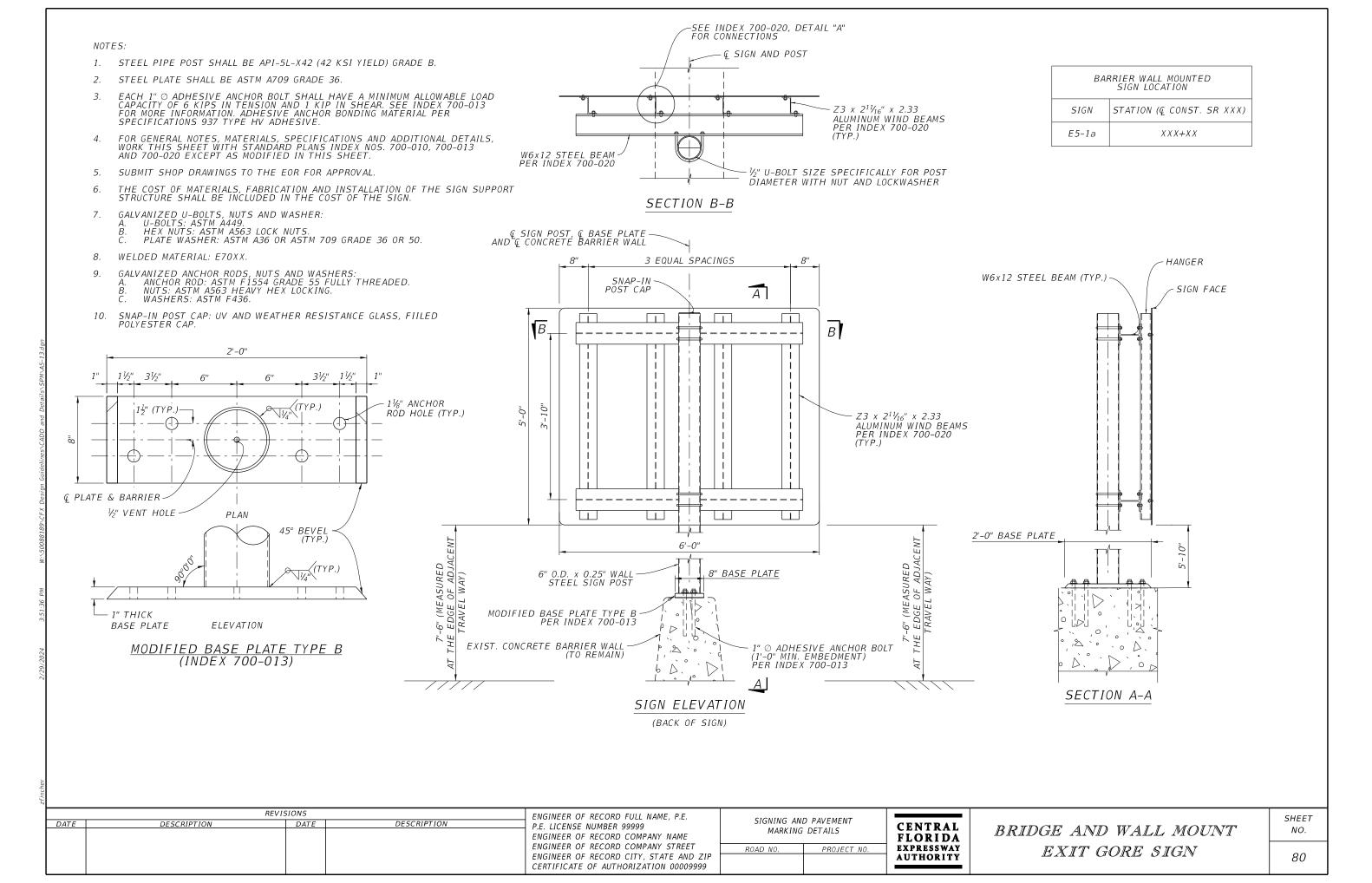
SIGNING AND PAVEMENT
MARKING DETAILS

ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BRIDGE AND WALL MOUNT
MILE POST DETAILS

SHEET NO.

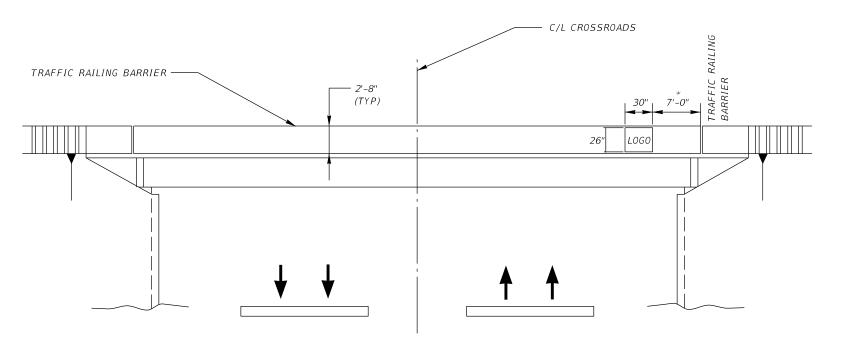


NOTES TO CONSULTANT:

- 1. CFX LOGO AND CROSSROAD STREET NAME PANELS SHALL BE DESIGNED BY THE CONTRACTOR.
- 2. IF BRIDGE MOUNTED LOGO (L-4) IS THE ONLY CFX LOGO TO BE INSTALLED WITHIN PROJECT LIMITS, THE DETAIL OF LOGO L-4 AND APPLICABLE NOTES SHALL BE SHOWN ON
- 3. BRIDGE MOUNTED LOGO (L-4) IS TO BE INSTALLED ON OVERPASS BRIDGES ONLY. NOT TO BE USED ON BRIDGES WHERE AN INTERCHANGE EXISTS.
- 4. DELETE BOX WITH NOTES PRIOR TO INCLUDING SHEET IN PLANS.

GENERAL NOTES

- 1. LOGO (L-4) SHALL BE USED AT ALL BRIDGE MOUNTING LOCATIONS.
- 2. PANEL SHALL BE MOUNTED FLUSH WITH BARRIER. CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING AND SHALL SUBMIT SHOP DRAWINGS TO THE SIGNING AND PAVEMENT MARKING PLANS EOR AND CFX 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 CFX SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. LOGO INSTALLATION TO BE PAID PER EACH UNDER ITEM NO. 700-4-140



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

CROSS ROAD	FACING DIRECTION

CFX LOGO (L-4) BRIDGE MOUNTING LOCATIONS (CROSSROADS)

REVISIONS ENGINEER OF RECORD FULL NAME, P.E. DESCRIPTION DATE DESCRIPTION DATE P.E. LICENSE NUMBER 99999 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE AND ZIP CERTIFICATE OF AUTHORIZATION 00009999

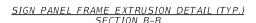
SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BRIDGE MOUNTED LOGO INSTALLATION SHEET NO.

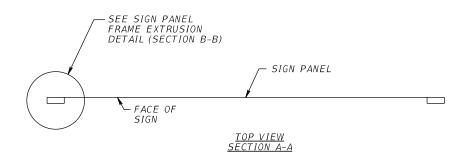


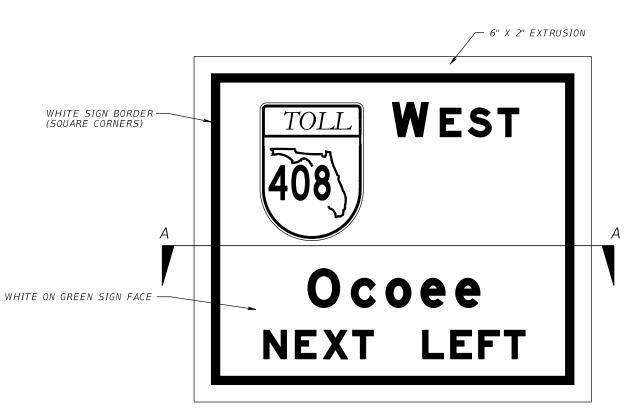
BRIDGE MOUNTED SIGNS

PRIOR TO FABRICATION OF THE BRIDGE MOUNTED SIGNS, THE SIGN FRAME CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND A SAMPLE OF THE FRAME MATERIAL, AND DETAILS FOR FABRICATION AND ATTACHMENT OF THE FRAME TO THE SIGN PANEL. THE FRAME SHALL BE A LIGHTWEIGHT METAL FRAME AND NOT WOODEN. THE FRAME SHALL BE PAINTED BLACK PER THE SPECIFICATIONS. ALL COSTS SHALL BE INCIDENTAL TO THE DESIGN AND MANUFACTURE OF THE SIGN.

THE SIGN SHALL CONFORM TO AASHTO REQUIREMENTS FOR SIGN STRUCTURES AND LUMINAIRES.

THE SIGN SHALL CONFORM TO GEOMETRY SHOWN HOWEVER DETAILING MAY BE DIFFERENT.





FRONT VIEW

NOTES TO CONSULTANT:

- 1. THIS DETAIL IS FOR USE ONLY ON SR 408 CROSSROAD BRIDGE MOUNTED GUIDE SIGNS FROM KIRKMAN ROAD TO CHICKASAW TRAIL.
- 2. DELETE THIS BOX AND NOTES PRIOR TO INCLUDING IN PLANS.

	REVIS	ENGINEER OF RECORD FULL NAME, P.E.					
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999			
				ENGINEER OF RECORD COMPANY NAME			
				ENGINEER OF RECORD COMPANY STREET			
				ENGINEER OF RECORD CITY, STATE AND ZIP			
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SIGNING AND PAVEMENT MARKING DETAILS

PROJECT NO.

ROAD NO.

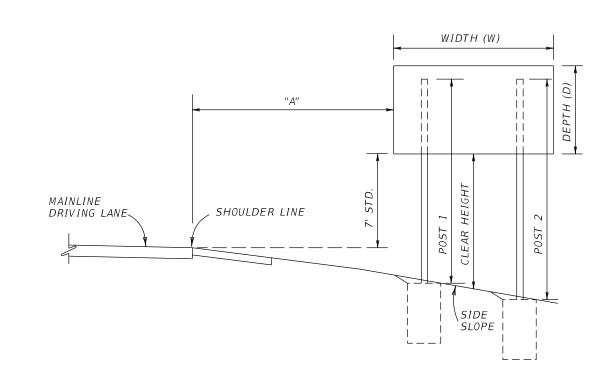
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BRIDGE MOUNTED SIGN FRAME DETAIL SHEET NO.

82

zfincher

MULTI-POST SIGN DATA										
SIGN NO.	SIGN SIZE (D x W) (ft)	SIDE SLOPE (RISE:RUN)	CLEAR HEIGHT (ft)	NO. OF POSTS	AVERAGE LENGTH OF POSTS (ft)	STEEL POSTS	HORIZONTAL CLEARANCE (A) (ft)	HORIZONTAL CLEARENCE NOTES		



TYPICAL SECTION FOR PLACEMENT OF MULTI-POST SIGNS

NOTES:

- 1. FOR ADDITIONAL DETAILS AND NOTES SEE FDOT STANDARD PLANS NOS. 700-020 AND 700-101.
- 2. AUXILIARY SIGN PANELS ARE ATTACHED IN ACCORDANCE WITH FDOT STANDARD PLANS NO. 700-110. THESE AUXILIARY PANELS CAN BE CENTERED, LEFT OR RIGHT JUSTIFIED PER PLANS.
- 3. CLEAR HEIGHT IS THE DISTANCE BETWEEN THE BOTTOM OF THE MAIN SIGN PANEL AND THE GROUND AT THE CENTER OF THE MAIN SIGN PANEL.
- 4. AVERAGE LENGTH OF POSTS COLUMN IS APPLICABLE TO STEEL POSTS AND ALUMINUM BEAMS.
- 5. SIGN ASSEMBLIES ARE DESIGNED FOR 130-170 MPH WIND SPEED AND SHALL CONFORM TO AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRIES AND TRAFFIC SIGNALS, 2018 EDITION.

NOTES TO CONSULTANT:

- 1. CONSULTANT SHALL INSERT APPLICABLE DESIGN WIND SPEED INTO NOTE 5 DEPENDING ON PROJECT LOCATION.
- 2. CONSULTANT SHALL INSERT APPLICABLE DATE INTO NOTE 5 FOR THE SPECIFIED AASTHO PUBLICATION.
- 3. DELETE THIS BOX AND NOTES PRIOR TO INCLUDING SHEET IN PLANS.

REVI	ENGINEER OF RECORD FULL NAME, P.E.		
DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 99999
			ENGINEER OF RECORD COMPANY NAME
			ENGINEER OF RECORD COMPANY STREET
			ENGINEER OF RECORD CITY, STATE AND ZIF
			CERTIFICATE OF AUTHORIZATION 00009999
		REVISIONS DESCRIPTION DATE	

SIGNING AND PAVEMENT MARKING DETAILS ROAD NO. PROJECT NO.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MULTI-POST SIGN TABLE OF VARIABLES SHEET NO.

