

Section **120** **Design Submittals**

120.2.7

Added language to clarify the reliability percent for the pavement design for widening and rehabilitation projects

Section **211** **Limited Access Facilities**

Table 211.7.1

Maintained the criteria for horizontal curve length as “desirable” and “minimum”.

Section **230** **Signing and Pavement Marking**

230.3.1

Changed 380 AW striping to 380 IES striping.

Clarified that the material for stop bars, crosswalks, messages, directional arrows, and option arrows should be used within the CFX jurisdiction.

230.4

Added information about the orientation of the sign panel for wrong-way and do not enter signs.

Updated the information in the Diverging Diamond section to match the prior section.

Section **231** **Lighting**

231.2.2

Added direction to the Consultant to determine if shielding is required.

231.6

Added clarification that surface-mounted conduit is not permitted on new bridges or MSE walls.

231.7

Clarified the content required to be included with the LDAR, including utility service information, supporting calculation documentation, and electronic calculation files used in the development of the lighting design.

Section **252** **Drainage Design Documentation**

252.12

Updated reference to the CFX Permitting Guidelines and added that the permit submittal shall also include erosion control exhibits.

Section **325** **Signing and Pavement Marking Plans**

325.6.1

Deleted the requirement for rumble strips in the SPM plans since they are shown in the roadway plans. – The list was subsequently renumbered.

325.9

Added guidance about replacing sign panels on existing sign structures.

Section **Lighting Details**

A-1

Included Wire Safe Theft Prevention Device in General Note 1.

A-1

Updated General Note 25 to replace Ben Baker with Sheeba West.

A-2

Updated Utility Note 1.D. to replace Ben Baker with Sheeba West.

A-3

Changed pay item note number for 715-4-XX to 715-69.

A-3

Added pay item note number 715-1-XX & 715-500-XX for Wire Safe Theft Prevention Device.

A-9

Updated the notes to designers to clarify how to pay for sign lighting.

B-3

Added directional bore detail and note to accommodate for the depth of guardrail posts.

E-2

Updated grounding requirement notes for resistance-to-ground requirements of grounding array and grounding bonding requirements for sign structure and cabinet mounting hardware.

E-3

Removed the detail because it is shown on A-9.

F-1, F2, F-3,

Added grounding bonding requirements for strut channels.

Differentiated AC Power and DC Power electrical pull boxes.

F-4

Differentiated AC Power and DC Power electrical pull boxes.

G-1, G-2, G-3

Updated the driver cabinet detail to include grounding wire bonded the cabinet ground lug and bonding of the cabinet door.

J-1, J-2

Modified Note 2 and added Note 17 to require separation of box girder maintenance lighting and roadway lighting circuits and associated infrastructure.

K-1, K-3

Added a note about the addresses of the service points.

Added utility transformer kVA rating and utility pole number.

Added Type 1 SPD to the enclosed circuit breaker panel, and changed SPD for lighting cabinet to Type 2.

Added grounding bonding jumper for the strut channels.

K-2, K-4

Added a detail to include maintenance lighting circuits and grounding bonding jumper for the strut channels.

K-5

Added a detail to include maintenance lighting circuits.

K-7

Added a note to call out the main circuit breaker.

Section **Signing Details**

Sheet 2

Changed reference from 380AW striping to 380IES striping.

Sheet 4

Added a pay item note regarding sign luminaires.

Added pay item note regarding upright structure painting.

Sheet 5, 6

Updated the notes on what sizes to use when for toll shields.

Sheet 11- 24

Fixed known errors on the guide sign worksheets.

Sheet 35

Added notes on when to use the special loop ramp signs.

Sheet 36

Updated AET ramps to reflect current configurations. (Plaza and Gantry).

Sheet 39

Added notes and sign panel sizes to the trailblazers for the interchange approach signing.

Sheet 40

Deleted this sheet since all the information is covered in the FDM and on Sheet 35.

All other sheets are subsequently renumbered.

Sheet 53

Added a note regarding how to quantify the upright painting.

Sheet 56

Removed note to avoid conflict with SPM General Notes.

Section **Signalization Details**

Sheet 1, 2, 3

Added a note to have the contractor provide GIS data for the signal infrastructure.

Removed the MOT notes so as not to conflict with the Roadway MOT notes.

Added a note to patch all countersunk screws on static sign panels.

Added notes to designers to confirm fiber interconnection and coordinate the use of the green through arrow.

Section **Tolling Design Details**

B-2 GENERAL NOTES (2 OF 5)

STANDBY GENERATOR GENERAL NOTES: Add COMMERCIAL OR INDUSTRIAL to Note 1a and update Note 1b for generator rating.

B-3 GENERAL NOTES (3 OF 5)

TOLLING TTCP GENERAL NOTES: (CONTINUED)

NOTE 35: Change THE TOLL PLAZA MANAGER(S) to CFX TOLLS (cfxtolssnotification@cfxway.com) AND THE MAINTENANCE MANAGEMENT CENTER (MMC) in first sentence. Change THE PLAZA MANAGER to TOLL OPERATIONS in second sentence.

B-4 GENERAL NOTES (4 OF 5)

TOLLING TTCP GENERAL NOTES: (CONTINUED)

NOTE 37: Change THE PLAZA MANAGER UPON ARRIVAL AT THE SITE to CFX TOLLS (cfxtolssnotification@cfxway.com) AND THE MAINTENANCE MANAGEMENT CENTER (MMC) 3 DAYS PRIOR TO THE EVENT in first sentence. Remove THE PLAZA MANAGER in second sentence.

NOTE 38: Reword sentence, no change to intent. Items 1, 2 & 3 changed to a, b & c, respectively. Remove MAINLINE in Item a. Change LANES to LANES/ZONES and remove (OPEN ROAD TOLL) in Item b.

TEC COORDINATION GENERAL NOTES (CONTINUED):

Note 4: Remove CONCRETE from Note 4b. Remove TRANSPONDER READER NEMA CABINET. Add IF APPLICABLE to Note 4g. Change POWER to PRIMARY AND SECONDARY POWER, AND POWER QUALITY CLASSIFICATION INCLUDING CLEAN AND DIRTY POWER in Note 4h.

Add the following items to Note 4:

- m. COMMUNICATION WIRING FOR REMOTE MONITORING OF GENERATOR AND ATS*
- n. MECHANICAL AND FUEL SYSTEM TESTING AND INSPECTION*
- o. AUTOMATIC TRANSFER SWITCH (ATS) COMMISSIONING TASKS*
- p. DOCUMENTATION AND FINALIZATION INCLUDING TEST RESULTS, COMMISSIONING LOGS FOR WARRANTY ACTIVATION, AS-BUILTS*

SUBMISSION, O&M MANUALS, AND ENSURE ALL LABELS AND SIGNS ARE LISTED.

NOTE 5: Add PER TOLL LANE to 5a and 5b. Add PER TOLL SITE PHASE to 5c and 5d.

NOTE 6: Change note to UPON COMPLETION OF TEC TESTING AND COMMISSIONING OF EACH TOLL ZONE, THE CEI SHALL SCHEDULE A JOINT WALKTHROUGH/INSPECTION OF ALL TOLL SITE COMPONENTS LISTED IN TEC COORDINATION GENERAL NOTE 4. THE JOINT WALKTHROUGH/INSPECTION SHALL INCLUDE CFX TOLLS, CFX MAINTENANCE, THE CONTRACTOR, AND THE TEC. THE CEI SHALL ALSO COORDINATE WITH CFX MAINTENANCE TO SCHEDULE A THIRD PARTY STRUCTURE INSPECTION FOR THE TOLL GANTRY. ANY DEFICIENCIES IDENTIFIED DURING THE JOINT WALKTHROUGH/INSPECTION MUST BE IMMEDIATELY ADDRESSED BY THE APPROPRIATE PARTY. A FORMAL HANDOVER AGREEMENT WILL BE EXECUTED AFTER ALL DEFICIENCIES HAVE BEEN ADDRESSED AND ALL PARTIES AGREE THE TOLL SITE IS COMPLETE AND MEETS CONTRACT REQUIREMENTS. UPON EXECUTION, CFX MAINTENANCE AND THE TEC WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF THEIR RESPECTIVE TOLL ZONE COMPONENTS. THE CONTRACTOR MUST NOT MAKE ANY MODIFICATIONS TO THE TOLL ZONE INFRASTRUCTURE FOLLOWING THE FORMAL HANDOVER TO THE TEC WITHOUT ADVANCE NOTIFICATION AND COORDINATION WITH CFX AND THE TEC.

B-6 LEGEND AND UTILITY CONTACTS

LEGEND: Update line styles for Underground Conduits, Directional Bore Conduits, and Structure Mount Raceway.

Add INTERMEDIATE PULL BOX and ASPHALT TOLL PAVEMENT.

C-1 RAMP AND MAINLINE SITE PLAN (ASPHALT TOLL PAVEMENT)

Add new sheet C-1 for site plan reflecting asphalt toll pavement layout.

C-2 RAMP SITE PLAN (CONCRETE TOLL PAVEMENT)

Rename Sheet C-1 to C-2 and change title.

Add Portable Generator Security Bollard.

NOTE TO EOR 3: Change references for C-1 & C-2 to C-1 THROUGH C-3.

Add Note 4 under NOTES TO EOR, regarding the Thrie-Beam Connection.

Miscellaneous text corrections.

C-3 MAINLINE SITE PLAN (CONCRETE TOLL PAVEMENT)

Rename Sheet C-2 to C-3 and change title.

Add Portable Generator Security Bollard.

Miscellaneous text corrections.

NOTE TO EOR 3: Change references for C-1 & C-2 to C-1 THROUGH C-3.

Add Note 4 under NOTES TO EOR, regarding the Thrie-Beam Connection.

D-1 ASPHALT PAVEMENT DETAILS

Add new sheet D-1 for asphalt toll pavement, pull box layout and conduit stub-up detail.

D-2 RAMP CONCRETE PAVEMENT DETAILS

Add Note 10 indicating travel lane width can be 12'-15'.

TYPICAL CONCRETE PAVEMENT SLAB: Update Base Course Note from Note 7 to Note 9.

Miscellaneous text corrections.

D-3 MAINLINE CONCRETE PAVEMENT DETAILS

TYPICAL CONCRETE PAVEMENT SLAB: Update Base Course Note from Note 7 to Note 9.

Miscellaneous text corrections.

Add missing 15'-0" dimension in the plan view.

E-1 CONDUIT TRENCH DETAIL & PORTABLE GENERATOR SECURITY BOLLARD DETAIL

Add Portable Generator Security Bollard detail.

Rename Sheet.

E-4 CONDUIT PLAN (ASPHALT TOLL PAVEMENT)

Add new sheet E-4 reflecting the conduit layout for the asphalt toll pavement pull boxes.

E-5 RAMP CONDUIT PLAN (CONCRETE TOLL PAVEMENT)

Add Portable Generator Security Bollard.

Add CONDUIT AND CABLING REQUIREMENTS note.

NOTES TO EOR 1: Change C-1 to C-2.

E-6 MAINLINE CONDUIT PLAN (CONCRETE TOLL PAVEMENT)

Reference Note 16: Change 2-8"x8" to 1-8"x8".

Add Portable Generator Security Bollard.

Add CONDUIT AND CABLING REQUIREMENTS note.

NOTES TO EOR 1: Change C-1 to C-3.

G-1 TOLLING EQUIPMENT CABINET DETAILS (1)

Key Note 1: Change air conditioning unit from Stainless Steel to Aluminum.

G-2 TOLLING EQUIPMENT CABINET DETAILS (2)

Key Note 1: Change air conditioning unit from Stainless Steel to Aluminum.

Note 10: Change to NOT USED.

Note 11: Change to NOT USED.

Note 19: Change to NOT USED.

G-3 TOLLING EQUIPMENT CABINET CONDUIT LAYOUT

Add NOTES TO EOR: 1. NUMBER OF COMM AND PWR CONDUITS DEPEND ON SITE CONDITIONS AND MAY VARY FROM THE ONES DEPICTED IN THIS SHEET. DETERMINE THE ACTUAL NUMBER OF CONDUITS THAT APPLY TO YOUR DESIGN AND ADJUST THE LAYOUT ACCORDINGLY.

H-1A RAMP TOLL GANTRY PLAN & ELEVATION

Plan View: Remove drilled shaft linework not needed.

H-1B RAMP TOLL GANTRY RACEWAY PLAN & ELEVATION

Note: Remove POWDER COATED for raceway finish.

Remove drilled shaft linework from Plan View:

H-2 RAMP TOLL GANTRY TRUSS SECTION & DETAILS

Add label 3" DIA. STEEL PIPE EQUIPMENT SUPPORT BRACKET (TYP.) on both sides of TRUSS SECTION pointing to support arms.

Label 3" DIA. SUPPORT ARM on both sides of TRUSS SECTION.

Update support bracket and support arm connection linework on TRUSS SECTION.

H-5B MAINLINE TOLL GANTRY RACEWAY PLAN & ELEVATION

PLAN VIEW: Revise Unistrut Note to indicated "GALVANIZED" instead of "PAINTED".

NOTES: Remove POWDER COATED for raceway finish.

H-6 MAINLINE TOLL GANTRY TRUSS SECTION & DETAILS

UPRIGHT ELEVATION DETAIL: Remove Handhole Lid linework from interior of Junction Box.

LOWER CHORD TYPICAL SECTION THRU TRUSS: Change "PAINTED UNISTRUT" to "GALVANIZED UNISTRUT".

I-1 LIGHTNING PROTECTION PLAN (ASPHALT TOLL PAVEMENT)

Add new sheet I-1 for Asphalt Toll Pavement Layout.

I-2A RAMP LIGHTNING PROTECTION PLAN (CONCRETE TOLL PAVEMENT)

Remove EQUIPMENT from TOLL EQUIPMENT GANTRY to match H sheets.

Add Note 3 regarding lightning protection system.

I-2B MAINLINE LIGHTNING PROTECTION PLAN (CONCRETE TOLL PAVEMENT)

Update truss chord splices to reflect mainline gantry locations.

Remove EQUIPMENT from TOLL EQUIPMENT GANTRY to match H sheets.

Add Note 3 regarding lightning protection system.

I-3 STRUCTURE GROUNDING DETAILS

Gantry Upright Elevation:

Labels GANTRY STRUCTURE POLE to be revised to GANTRY UPRIGHT.

Add grounding wire to second upright on GANTRY UPRIGHT ELEVATION.

I-4A POWER RISER DIAGRAM GENERAL NOTES

Rename I-4 SERVICE POINT DETAILS to I-4A POWER RISER DIAGRAM GENERAL NOTES.

Provide updated NOTES TO EOR AND GENERAL NOTES.

I-4B TOLL EQUIPMENT POWER RISER DIAGRAM

Replace Service Point Details with New Power Riser Diagram.

Change riser diagram to standard electrical format.

Remove ONE-LINE DIAGRAM.

Move notes to Sheet I-4A.

I-6 POWER DISTRIBUTION RACK WIRING DIAGRAM

KEY NOTES: Revise Note 6 reference from I-11 to I-10.

NOTES TO EOR: Update language in Note 4.

I-7 PANEL SCHEDULES

Revise Panel Names from LDP-X to DP-X and UPS-X to CLEAN POWER PANEL "C" SCHEDULE.

Add Panel Schedule Notes.

PANEL SCHEDULES: Update Circuit 28 and 30 to indicate 30/2 in BKR/POLE column and SPD in LOAD column.

I-8 ARC FLASH AND SHOCK RISK LABELING DETAILS

ARC FLASH AND SHOCK HAZARD DATA: Update equipment list.

Add Note 6.

Update warning sign language.

I-11 RAMP TOLLING EQUIPMENT ELECTRICAL LOADS

Add Notes to EOR.

NOTES: 3. Add TOLL in front of LANE CONFIGURATION.

TABLE: Add TOLL in front of LANE CONFIGURATION in heading.

I-12 MAINLINE TOLLING EQUIPMENT ELECTRICAL LOADS

Add Note to EOR.

NOTE 3: Replace TOLLING with TOLL for consistency.

NOTE 4. Revise to SHOULDERS COUNTED IN THE TOLL LANE CONFIGURATION ARE 6 FEET OR LARGER.

TABLE: Add TOLL to the title of the 7th column with the lane configuration.

TCP-4 ON RAMP TOLL PLAZA SINGLE LEFT SINGLE LANE CLOSURE

Remove channelizing devices blocking toll plaza maintenance access and parking space.

ACM LANE CLOSURE: Change to CHANNELIZED LANE CLOSURE.

PCMS MESSAGE: Remove COIN LANE CLOSED SIGN and DO NOT STOP messages and remove PCMS symbol from channelized lane closure plan.

NOTE 2: Change WITH BOTH AN ACM AND E-PASS LANE to A CHANNELIZED LANE(S).

NOTE 4: Remove PARKING LOT CHANNELIZING DEVICES.

Add SEE NOTE 5 to TMA in plan views.

*NOTE 5: Remove *.*

Remove AET LANE CLOSURE heading.

SYMBOLS: Remove PCMS

TCP-5 ON RAMP TOLL PLAZA SINGLE LEFT WITH YIELD SINGLE LANE CLOSURE

Remove channelizing devices blocking toll plaza maintenance access and parking space.

ACM LANE CLOSURE: Change heading to CHANNELIZED LANE CLOSURE

Remove AET LANE CLOSURE heading.

PCMS MESSAGE A: Remove COIN LANE CLOSED SIGN and DO NOT STOP messages and remove PCMS and "A" symbols from plan.

PCMS MESSAGE B: Remove label "B" and remove "B" symbol from plan view

NOTE 2: Change WITH BOTH AN ACM AND E-PASS LANE to A CHANNELIZED LANE(S).

NOTE 4: Remove PARKING LOT CHANNELIZING DEVICES.

Add SEE NOTE 5 to TMA in plan views.

*NOTE 5: Remove **.*

TCP-6 ON RAMP TOLL PLAZA DUAL LEFT SINGLE LANE CLOSURE

Remove channelizing devices blocking toll plaza maintenance access and parking space.

ACM LANE CLOSURE: Change to CHANNELIZED LANE CLOSURE.

PCMS MESSAGE: Remove COIN LANE CLOSED SIGN and DO NOT STOP messages and remove PCMS symbol from channelized lane closure plan.

NOTE 2: Change WITH BOTH AN ACM AND E-PASS LANE to A CHANNELIZED LANE(S).

NOTE 4: Remove PARKING LOT CHANNELIZING DEVICES.

Add Labels SEE NOTE 5 to TMA in plan views.

*NOTE 5: Remove *.*

Remove AET LANE CLOSURE heading.

SYMBOLS: Remove PCMS

TCP-7 ON RAMP TOLL PLAZA DUAL LEFT WITH YIELD SINGLE LANE CLOSURE

Remove channelizing devices blocking toll plaza maintenance access and parking space.

ACM LANE CLOSURE: Change to CHANNELIZED LANE CLOSURE.

Remove AET LANE CLOSURE heading.

PCMS MESSAGE A: Remove COIN LANE CLOSED SIGN and DO NOT STOP messages and remove PCMS and "A" symbols from channelized lane closure plan.

PCMS MESSAGE B: Remove label "B" and remove "B" symbol from plan view

NOTE 2: Change WITH BOTH AN ACM AND E-PASS LANE to A CHANNELIZED LANE(S).

NOTE 4: Remove PARKING LOT CHANNELIZING DEVICES.

Add Labels SEE NOTE 5 to TMA in plan views.

*NOTE 5: Remove **.*

TCP-8 OFF RAMP TOLL PLAZA SINGLE LANE EXIT SINGLE LANE CLOSURE

Remove channelizing devices blocking toll plaza maintenance access and parking space.

ACM LANE CLOSURE: Change to CHANNELIZED LANE CLOSURE.

Remove AET LANE CLOSURE heading.

PCMS MESSAGE: Remove COIN LANE CLOSED SIGN and DO NOT STOP messages and remove PCMS symbol from plan.

NOTE 2: Change WITH BOTH AN ACM AND E-PASS LANE to A CHANNELIZED LANE(S).

NOTE 5: Remove PARKING LOT CHANNELIZING DEVICES.

Add Labels SEE NOTE 6 to TMA in plan views.

*NOTE 6: Remove *.*

SYMBOLS: Remove PCMS

TCP-9 OFF RAMP TOLL PLAZA AUXILIARY LANE EXIT SINGLE LANE CLOSURE (1)

Remove channelizing devices blocking toll plaza maintenance access and parking space.

ACM LANE CLOSURE: Change to CHANNELIZED LANE CLOSURE.

Remove AET LANE CLOSURE heading.

PCMS MESSAGE: Remove COIN LANE CLOSED SIGN and DO NOT STOP messages and remove PCMS symbol from plan.

NOTE 2: Change WITH BOTH AN ACM AND E-PASS LANE to A CHANNELIZED LANE(S).

NOTE 5: Remove PARKING LOT CHANNELIZING DEVICES.

Add Labels SEE NOTE 7 to TMA in plan views.

*NOTE 6: Remove *.*

*NOTE 7: Remove **.*

SYMBOLS: Remove PCMS

TCP-10 OFF RAMP TOLL PLAZA AUXILIARY LANE EXIT SINGLE LANE CLOSURE (2)

Remove channelizing devices blocking toll plaza maintenance access and parking space.

ACM LANE CLOSURE: Change to CHANNELIZED LANE CLOSURE.

Remove AET LANE CLOSURE heading.

PCMS MESSAGE: Remove COIN LANE CLOSED SIGN and DO NOT STOP messages and remove PCMS symbol from plan.

NOTE 2: Change WITH BOTH AN ACM AND E-PASS LANE to A CHANNELIZED LANE(S).

NOTE 5: Remove PARKING LOT CHANNELIZING DEVICES.

Add Labels SEE NOTE 7 to TMA in plan views.

*NOTE 6: Remove *.*

*NOTE 7: Remove **.*

SYMBOLS: Remove PCMS

Section **Intelligent Transportation Systems Details**

A-1

As-Built Geolocate data from the contractor is now required 60 days prior to final acceptance.

A-2

Contact information for work within 2000 feet of a toll plaza has been updated.

A-3

Note for TMS cable removed. Maintenance of Communications notes added for the continuous operation of the DMS.

A-8

Updated Symbology for FOMH and Stub-Out

A-9

New ITS Device Data Sheet added.

C-1

Minimum required bridge approach length increased to 100'. Expansion joint couplings are now shown under the bridge deck.

H-1

The design wind speed for Brevard County has been updated to 170 MPH. The CCTV pole now shows a 2" threaded nipple with plug for the installation of the intermediate cabinet.

H-2

CCTV pole now shows a 2" threaded nipple with plug for the installation of the intermediate cabinet.

H-3

New note to EOR added. Designers shall coordinate directly with vendors to ensure pole is not oversized.

J-2

Note to EOR has been updated. Ground mounted cabinets shall be installed. Any deviation to pole mounted shall require approval from CFX.

J-8

Note 17 added. Min. #10 AWG XHHW wire shall be installed from circuit panel to power monitor.

J-9, J-12

Detail revised to show Smart Power Monitor.

J-10A, J-13A

Detail revised to show indicator light outside of manual transfer switch.

J-11

Note 18 added. Min. #10 AWG XHHW wire shall be installed from circuit panel to power monitor. Flexible conduit size updated to 2 inch.

J-15

The portable generator receptacle has updated to a strut-mounted configuration instead of directly to the MTS.

J-17, J-18

The details have been revised to show both the remote installation and local installation of the DCS reader cabinet.

K-1A, K-24

Detail removed. CFX will not use the Bluetooth DCS option going forward.

L-1, L-2

ADMS cabinet layout has been reconfigured.

L-4

DCS NEMA DIN rail location has been revised. Note 7 added. Min. #10 AWG XHHW conductor shall be installed from the RPM to the DCS Reader Cabinet for Power and Service Ground.

L-8

DCS Module Reader Cabinet revised.

L-13

Power Monitor NEMA cabinet notes have been revised.

L-14

Cabinet Sticker Detail added.

M-2

DMS wiring block diagram has been updated. Previous note 6 removed.

N-1A, N-2A

Detail sheets removed.

O-1

Note 14 added and previous note 13 removed.

O-6

Thermal removed as an option for the WWD system.

O-8

HD Video Detection detail added.

O-15

WWD Sign Placement Typical Section Detail added.

O-16

WWD Pole Data Sheet added.

P-1, P-2, P-3, P-4

Note added to detail. The insulation color for DC voltage conductors from the LHUB to the LCS shall be Red (Positive) and Black (Negative). Phasing tape is not acceptable.

P-14

Note to EOR removed.

P-18, P-19, P-20, P-22

Labels updated to further clarify wiring.

P-20

Note added to detail. The four (4) batteries for the VSL UPS shall be wired in series/parallel for 24V DC operation.

SUMMARY OF REVISIONS

Effective March 15, 2026