

June 19 - 20, 2025  
Hollywood, FL





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## D6 Quality Control Process Overview

Patricia Quintela, P.E.  
Ryan Raghunandan, P.E

Transportation Symposium  
Website



SCAN ME

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## Presenters



*Patricia Quintela, PE.  
Assistant District  
Drainage Engineer*



*Ryan Raghunandan, PE.  
Internal Design  
Project Manager*

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# Agenda

- *D6 Quality Control (QC) Process Overview*
- *Internal QC Review (Prior to ERC Submittal)*
  - *Staffing Plan*
  - *Review Procedures*
  - *Certificate of Compliance*
- *Lessons Learned – What to look for during QC Reviews?*



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## Why is Quality Important?

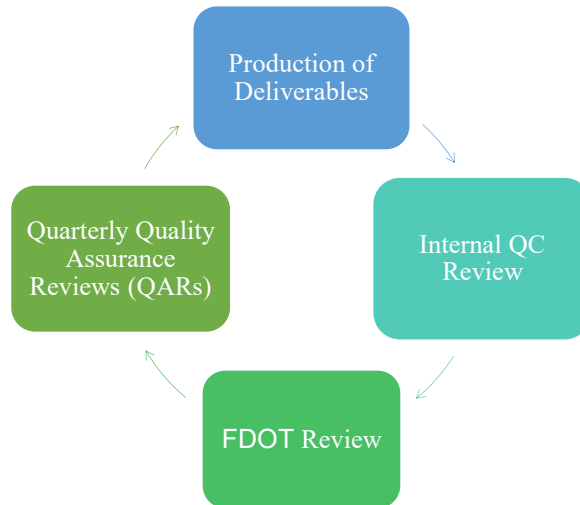


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# D6 Quality Control Process Overview



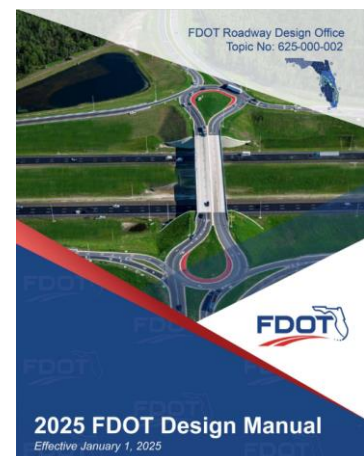
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## Internal QC Review

- QC Plan (FDM 124.2)
  - QA/QC Staffing Plan
  - Review Procedures for each Deliverable type
  - Certificate of Compliance



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# Internal QC Review

- Staffing Plan (FDM 124.2.1)
  - Table which list the deliverable, lead technical professional and QC reviewer per each discipline.

Table 124.2.1 Example QA/QC Staffing Plan

Element/Task	Deliverable	Lead Technical Professional	QC Reviewer
<b>General (PM: Luke S. Walker, PE) (QA Mgr.: Dew Wright, PE) (BIM Mgr.: Tye Down, PE)</b>			
Project Schedule	Schedule	Luke S. Walker, PE	Dep Abilaba, PE
Quality Assurance	Quality Control Plan	Luke S. Walker, PE	Dep Abilaba, PE
<b>Roadway (Riley EOR: Luke S. Walker, PE) (Org EOR: Flow Fast, PE) (TICP EOR: Lan Solis, PE)</b>			
Variations/Exceptions	Sidewalk Variation	Luke S. Walker, PE	Dep Abilaba, PE
Typical Section	Typical Section Package	Luke S. Walker, PE	Dep Abilaba, PE
Pavement Design	Pavement Design Package	Luke S. Walker, PE	Dep Abilaba, PE
Project Control	Roadway Plans	Chad Bone, PE	Anna King, PSM
Roadway Design	Roadway Plans	Chad Bone, PE	Dep Abilaba, PE
	BIM files	Mora d' Mirbas, E.I.	Sabrina Ren, PE
Temp Traffic Control	Roadway Plans	Lan Solis, PE	Luke S. Walker, PE
Drainage Design	Roadway Plans	Flow Fast, PE	Dep Abilaba, PE
Quantity Computations	QTO/SRD files	Mora d' Mirbas, E.I.	Sabrina Ren, PE
	EQ Report / AASHTOWare	Luke S. Walker, PE	Dep Abilaba, PE
Specifications, TSP	Specifications Package	Luke S. Walker, PE	Dep Abilaba, PE
<b>Signing &amp; Pavement Marking (EOR: Tara Full, PE)</b>			
Signing Design	S&PM Plans	Tara Full, PE	Luke S. Walker, PE
Pavt Marking Design	S&PM Plans	Tara Full, PE	Luke S. Walker, PE
Quantity Computations	EQ Report	Chad Bone, PE	Luke S. Walker, PE
<b>Survey and Mapping (EOR: Anne King, PSM)</b>			
Design Survey	Survey Files	Anna King, PSM	Bob Abit, PSM
Ter Mobile LGAR	SURVIND01 dgn file	Anna King, PSM	Bob Abit, PSM

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# Internal QC Review

- BIM Review Technology
  - List all software used to conduct BIM review
- QC Review Procedures for Plans and Documents
  - QC Document is needed before ERC review.
  - Consult 5-step review process:
    - Origination
    - Checked
    - Concurrence
    - Changes Made
    - Changes Verified

Figure 124.3.1 Example QC Stamp

QC Stamp		
Submittal:		
Step	By	Date
Origination		
Checked Correct - Yellow Highlight Change - Red Comments		
Concurrence Agree - Green Check No change - Green 'X'		
Changes Made Green Highlight		
Changes Verified Blue Check		

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# Internal QC Review

Where to place it? Under Phase Review Submittal – Admin Zip folder



PSEE Phase Review Documents (Click to collapse)

EDMS Doc No	Created By	Created Date	Document Name	Description	
11105131		1/4/2021	-CADD zip	-CADD	<a href="#">View</a>
11104988		1/4/2021	-PLANS-04-ITS.pdf	-PLANS-04-ITS	<a href="#">View</a>
11104957		1/4/2021	-PLANS-01-ROADWAY.pdf	-PLANS-01-ROADWAY	<a href="#">View</a>
10845227		11/2/2020	-PLANS-08-STRUCTURE.pdf	-PLANS-08-STRUCTURE	<a href="#">View</a>
10845221		11/2/2020	-PLANS-07-ARCHITECTURAL.pdf	-PLANS-07-ARCHITECTURAL	<a href="#">View</a>
10845210		11/2/2020	-PLANS-06-LANDSCAPE.pdf	-PLANS-06-LANDSCAPE	<a href="#">View</a>
10845201		11/2/2020	-PLANS-05-LIGHTING.pdf	-PLANS-05-LIGHTING	<a href="#">View</a>
10845192		11/2/2020	-PLANS-03-SIGNALIZATION.pdf	-PLANS-03-SIGNALIZATION	<a href="#">View</a>
10845188		11/2/2020	-PLANS-02-SIGNINGMARKING.pdf	-PLANS-02-SIGNINGMARKING	<a href="#">View</a>
10845186		11/2/2020	-PLANS-01-ROADWAY-PC.pdf	-PLANS-01-ROADWAY-PC	<a href="#">View</a>
10845183		11/2/2020	-PLANS-01-ROADWAY-COREBORINGS.pdf	-PLANS-01-ROADWAY-COREBORINGS	<a href="#">View</a>
10845151		11/2/2020	-ADMIN zip	-ADMIN	<a href="#">View</a>

Page 1 (Showing Items 1 to 12 of 12) Show per page 10 25 50

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# Internal QC Review

- QC Review for BIM
  - Developmental Reviews
    - Conformance – CADD Standards
    - Completeness – Project Expectations
    - Consistency – Accurate relative to each other
  - Design Analysis Review
    - Design Criteria
  - Interdisciplinary Review
    - Interactions between each discipline

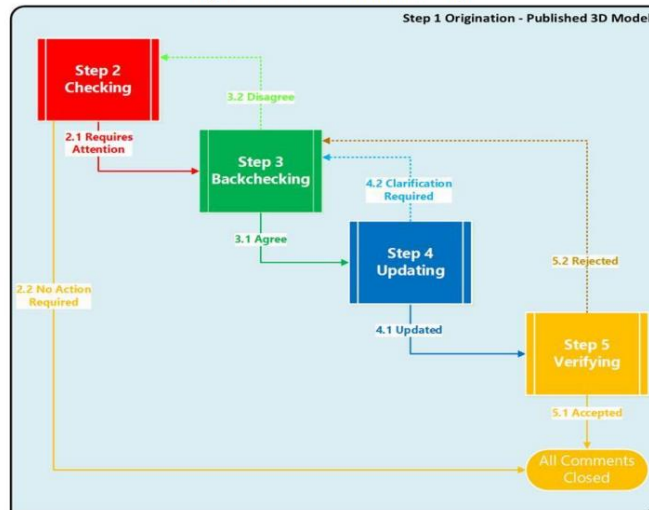
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# Internal QC Review

Figure 124.4.1 QC Review Steps



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# Internal QC Review

Table 124.4.1 Example BIM Review Log

Review Description	Reviewer	Developmental Review			Design Analysis Review	Inter-disciplinary Review
		Conform.	Complete.	Consist.		
Initial Geometrics	Sabrina Ren, PE	12/10/2020			12/12/2020	
Existing Utilities	Sabrina Ren, PE	2/14/2021			2/15/2020	
Phase I BIM	Tye Down, PE	3/25/2021	3/27/2021	3/28/2021	3/28/2021	3/29/2021
Initial Drainage	Dep Abillaba, PE	4/20/2021			4/21/2021	
Final Geometrics	Sabrina Ren, PE	4/26/2021			4/28/2021	
Phase II BIM	Tye Down, PE	8/9/2021	8/10/2021	8/12/2021	8/13/2021	8/15/2021
QTDSRD files	Sabrina Ren, PE					
Final Drainage	Dep Abillaba, PE					
Phase III BIM	Tye Down, PE					
Phase IV BIM	Tye Down, PE					
Final BIM	Tye Down, PE					

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## Internal QC Review

- Certificate of Compliance
  - QC Manager
- Independent Peer Review
  - Supplemental and conducted by an independent team.
- Field Review
  - Supplemental and is held at project site.

Quality Control - Certificate of Compliance											
<b>DATE:</b>	<b>12/26/2015</b>										
<b>TO:</b>	<b>Project File</b>										
<b>FROM:</b>	<b>USDP Project Manager</b>										
<b>SUBJECT:</b>	<b>Quality Control - Certificate of Compliance for PHASE 1 (DPM) Subcontract</b>										
	<b>Project Description:</b>	<b>U.S. Prison Number</b>									
	<b>Quantity:</b>	<b>0</b>	<b>0</b>								
<p>This certifies that a Quality Control Review of the aforementioned project contract documents was performed by staff professionals other than those that prepared the package, to assure its completeness, accuracy, proper application of FDOT criteria, process, &amp; standards, and the identification of any outstanding requirements.</p> <p>On the basis of my knowledge, all comments from the previous phase review and from any other previous reviews and/or investigations pertinent to the project, have been received and incorporated into the subcontract package.</p> <p><input type="checkbox"/> Comments from all reviews and phases have been reviewed and / or incorporated in the final plans package.</p> <p>Quality Control follows the process identified in the FDOT Manual - Manual - 124 QACQE Management Plan.</p>											
<b>Notes:</b>											
<p><b>Quality Assurance:</b></p> <p>This certifies that a Quality Assurance Review was done by:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 40%;"><b>USDP/USDP CLERK, DE</b></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>Project Manager</td> <td>Project Manager</td> <td>Project Manager</td> <td>Project Manager</td> </tr> </table>				<b>USDP/USDP CLERK, DE</b>				Project Manager	Project Manager	Project Manager	Project Manager
<b>USDP/USDP CLERK, DE</b>											
Project Manager	Project Manager	Project Manager	Project Manager								
<p><b>For Internal District Projects Only</b></p> <p>I hereby that performed a review of the Roadway Contract Plans (except for TCM) prior to this Phase Submittal and submitted a set of plans with marked comments to the Project Manager and discussed the comments with the Project Manager and/or the Project Engineer.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 40%;"><b>Walter Adams, DE</b></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>Project Manager</td> <td>Project Manager</td> <td>Project Manager</td> <td>Project Manager</td> </tr> </table>				<b>Walter Adams, DE</b>				Project Manager	Project Manager	Project Manager	Project Manager
<b>Walter Adams, DE</b>											
Project Manager	Project Manager	Project Manager	Project Manager								

## What to look for during QC Reviews?



# Pavement Marking Errors

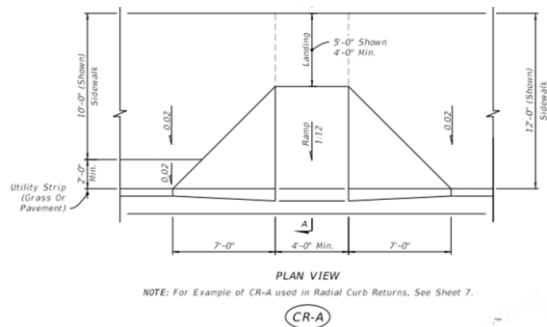
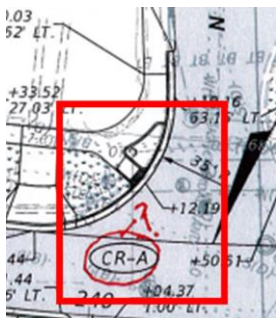


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# Contract Plan Labelling



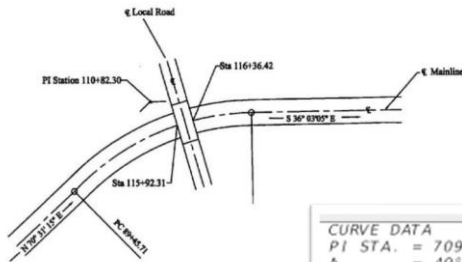
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# Contract Plan Labelling



**CURVE DATA**  
 PI STA. = 709+72.30  
 $\Delta$  = 49° 03' 08" (RT)  
 D = 06° 30' 13"  
 T = 401.98  
 L = 754.24  
 R = 881.00  
 PC STA. = 705+70.32  
 PT STA. = 713+24.57  
 e = 0.024

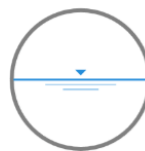
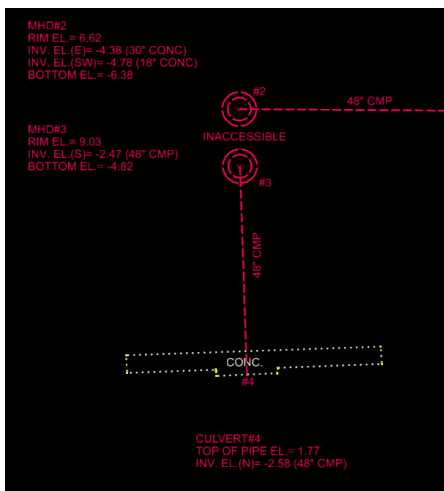


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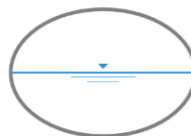
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# Survey Information Verification



Circular Pipe



Elliptical Pipe

Concrete Pipe—Elliptical Dimensions							
Nominal Dimensions				Equiv. Dia. (in)	Area (Sq. Ft.)	Wall Thickness (in.)	Classes HE II, III, IV VE II, III, IV
Horiz.		Vert.					
Rise (in.)	Span (in.)	Rise (in.)	Span (in.)				
12	18	18	12	15	1.3	2	1 <sup>1/2</sup>
14	23	23	14	18	1.8	2	3 <sup>1/4</sup>
19	30	30	19	24	3.3	3	1 <sup>1/4</sup>
24	38	38	24	30	5.1	3	3 <sup>3/4</sup>
29	45	45	29	36	7.4	4	1 <sup>1/2</sup>
34	53	53	34	42	10.2	5	
38	60	60	38	48	12.9	5	1 <sup>1/2</sup>
43	68	68	43	54	16.6	6	
48	76	76	48	60	20.5	6	1 <sup>1/2</sup>
53	83	83	53	66	24.8	7	
58	91	91	58	72	29.5	7	1 <sup>1/2</sup>
63	98	98	63	78	34.6	8	
68	106	106	68	84	40.1	8	1 <sup>1/2</sup>
72	113	113	72	90	46.1	9	
77	121	121	77	96	52.4	9	1 <sup>1/2</sup>
82	128	128	82	102	59.2	10	
87	136	136	87	108	66.4	10	1 <sup>1/2</sup>
92	143	143	92	114	74	11	
97	151	151	97	120	82	11	1 <sup>1/2</sup>

\* For Informational Purposes Only.

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## Verification of Existing Drainage Structures

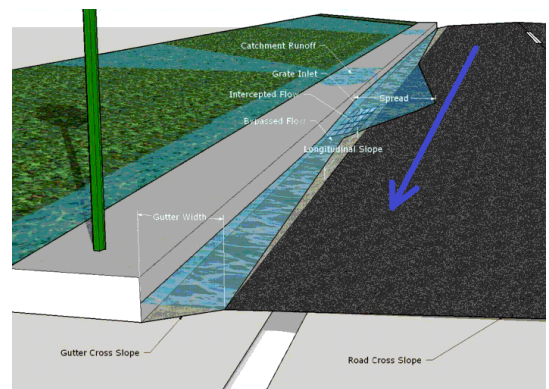
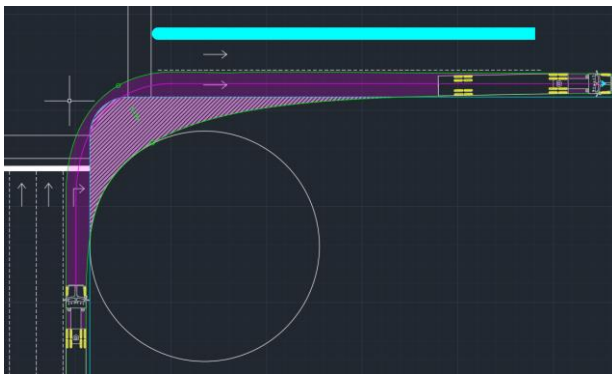


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## EOP Profile Change Impacts

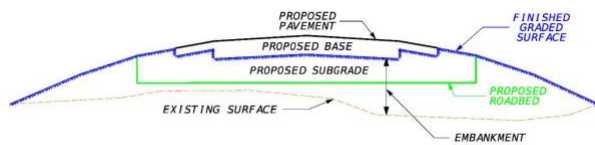


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# 3D Modeling

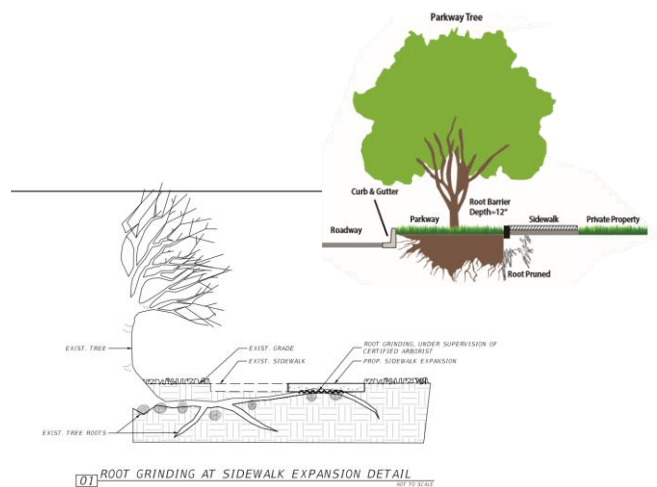


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# Missing Pay Items



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# Identification of Design Variations/Exceptions

## GENERAL:

1. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS, OR ON NON-EVENT DAYS/WEEKENDS.

## NON-PEAK HOURS ARE:

FROM 10:00 P.M. TO 05:00 A.M. SUNDAY THRU THURSDAY(SR 826/PALMETTO NB EXPRESS LANE)  
 FROM 11:30 P.M. TO 05:00 A.M. SUNDAY THRU THURSDAY(SR 826/PALMETTO NB FROM MP-2.785 TO MP-3.13)  
 FROM 08:00 P.M. TO 06:00 A.M. SUNDAY THRU THURSDAY(SR 826/PALMETTO NB FROM MP-3.70 TO MP-4.046)  
 FROM 08:00 P.M. TO 06:00 A.M. SUNDAY THRU THURSDAY(SR 826/PALMETTO SB FROM MP-4.329 TO MP-4.378)  
 FROM 12:30 A.M. TO 05:00 A.M. SUNDAY THRU THURSDAY(SR 826/PALMETTO EB/WB FROM MP-18.39 TO MP-18.625)  
 FROM 10:30 P.M. TO 5:30 A.M. SUNDAY THRU THURSDAY(SR 5/SOUTH DIXIE HIGHWAY NB FROM BMP-6.170 TO EMP-6.290)  
 FROM 10:00 P.M. TO 6:00 A.M. SUNDAY THRU THURSDAY(SR 5/SOUTH DIXIE HIGHWAY SB FROM BMP-6.170 TO EMP-6.290)  
 FROM 8:00 P.M. TO 6:00 A.M. SUNDAY THRU THURSDAY(SR 93/I-75 NB EXPRESS LANE)  
 FROM 9:30 P.M. TO 6:00 A.M. SUNDAY THRU THURSDAY(SR 9/I-95 NB EXPRESS LANE)

## 240.2.1.6 Lane Closure Analysis

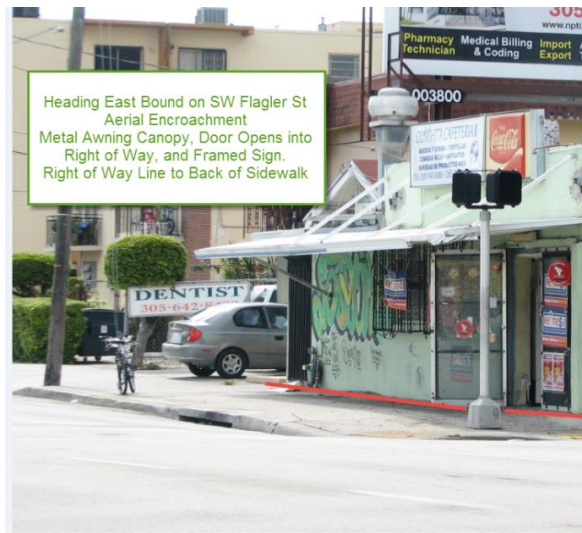
When a closure of one or more lanes is necessary, provide an allowable lane closure duration of at least one ten-hour period per 24-hour work period. Approval by the State Roadway Design Engineer is required when at least one ten-hour-period per 24-hour work period cannot be provided.

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# Private Property Encroachments



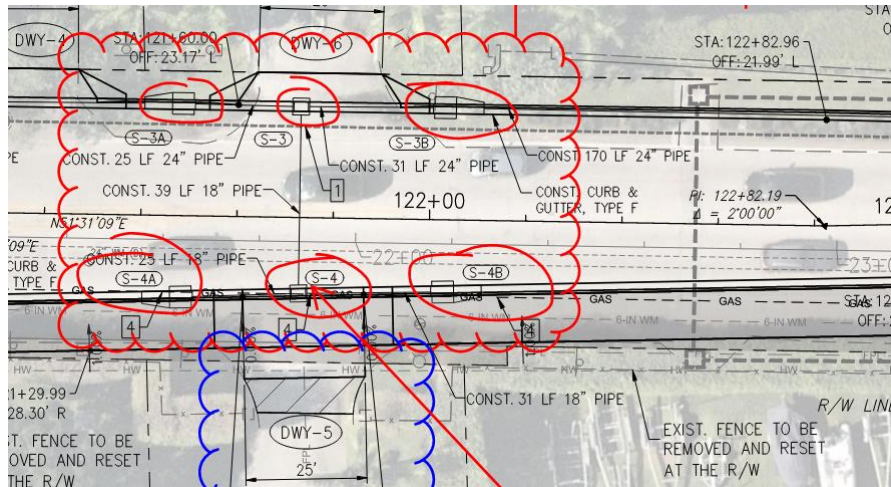
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# Constructability



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# Temporary Detours through Non-State Roadways

DETOUR FOR NW 5TH ST.  
FROM SOUTHBOUND MOVEMENT



Patricia Quintela, PE  
Project Manager - Consultant Management  
FDOT District VI  
1000 NW 111 Ave  
Miami, FL 33172

Subject: Temporary Detour Concurrence Letter  
FM 445999-1-52-01

Dear Ms.Quintela:

The City of Miami is in receipt of the proposed temporary detour by the Florida Department of Transportation as part of FM 445999-1-52-01. The intent of this detour is to maintain access to NW 5<sup>th</sup> Street and NW N River Drive from SR 7 (NW 7<sup>th</sup> Avenue/NW 8<sup>th</sup> Avenue) during milling and resurfacing operations on the single lane ramps that provide this access. The detour will only be at night (8:30 pm to 6:30 am) for approximately two nights. The City of Miami agrees with the proposed temporary detour utilizing local roadways as shown in the roadway plans related to the construction of this project (Exhibit A- Proposed Detour).

If you have any questions or would like to discuss further, please contact me at [calfare@miamigo.com](mailto:calfare@miamigo.com) or (305) 416-1047.

Sincerely,

Charles M.  
Alfaro

Charles M. Alfaro, P.E.  
Assistant Director  
Department of Resilience and Public Works

Digitally signed by  
Charles M Alfaro  
Date: 2024.07.01  
11:19:46 -0400

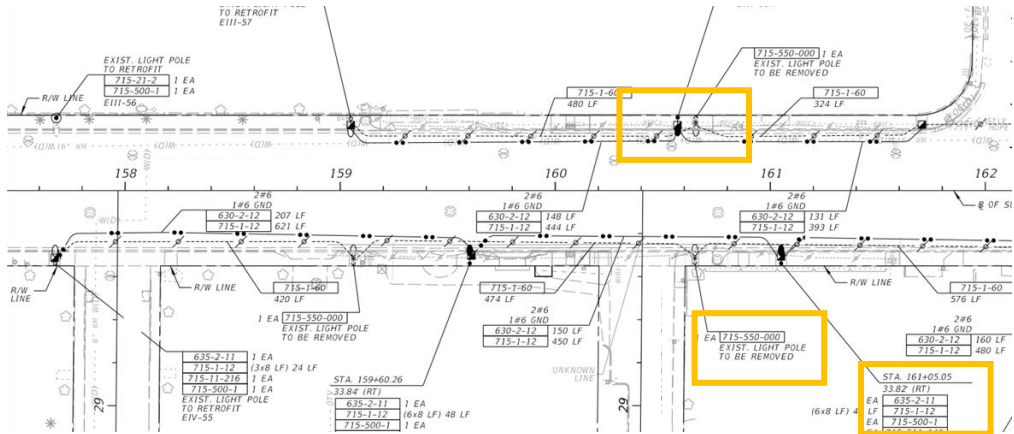
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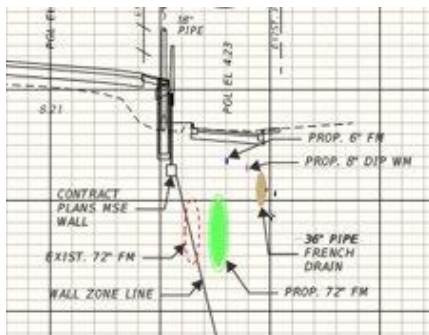


## Constructability/Practical Decision Making

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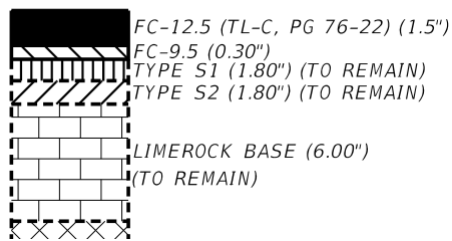
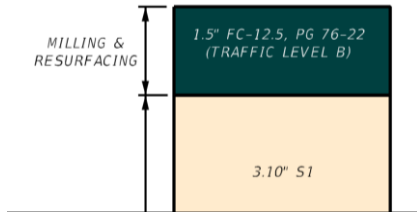
## Utilities

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# Cost Savings/Efficiencies



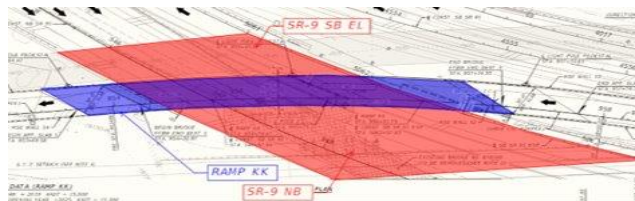
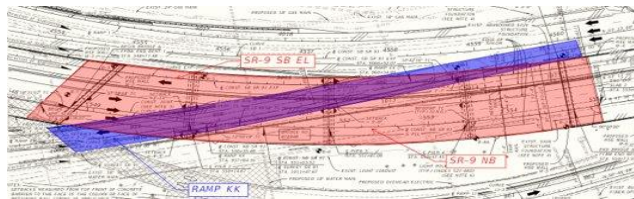
Existing Pavement	Proposed Resurfacing
TYPE FC-5 (EXIST.) 0.75"	FRICTION COURSE FC-9.5, PG 76-22 (TLB) (PROP.) 1.25"
TYPE S-1 (EXIST.) 2.50"	STRUCTURAL COURSE TYPE SP-9.5 (TLB) (PROP.) 1.25"
	(TYPE S) (EXIST.) 0.75"
MILL SURFACE (2.5" Avg. Depth)	

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# Cost Savings/Efficiencies



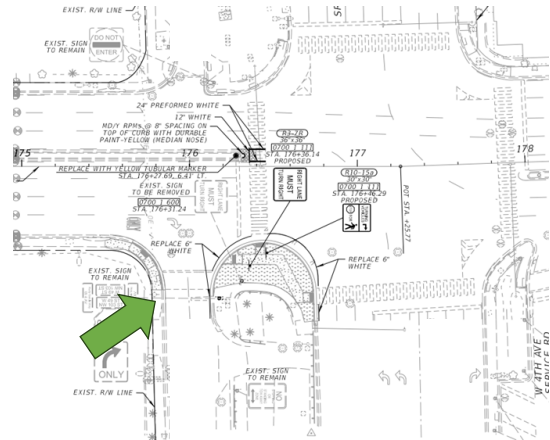
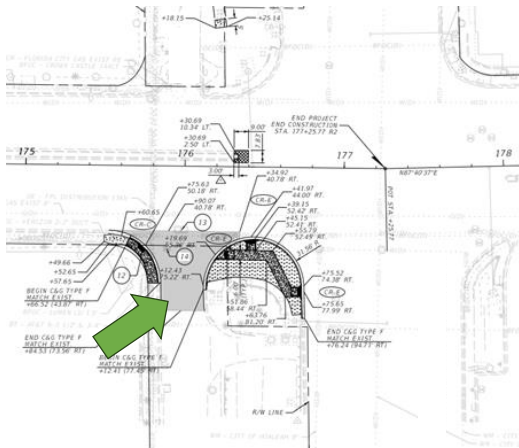
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# Consistency Across Different Disciplines

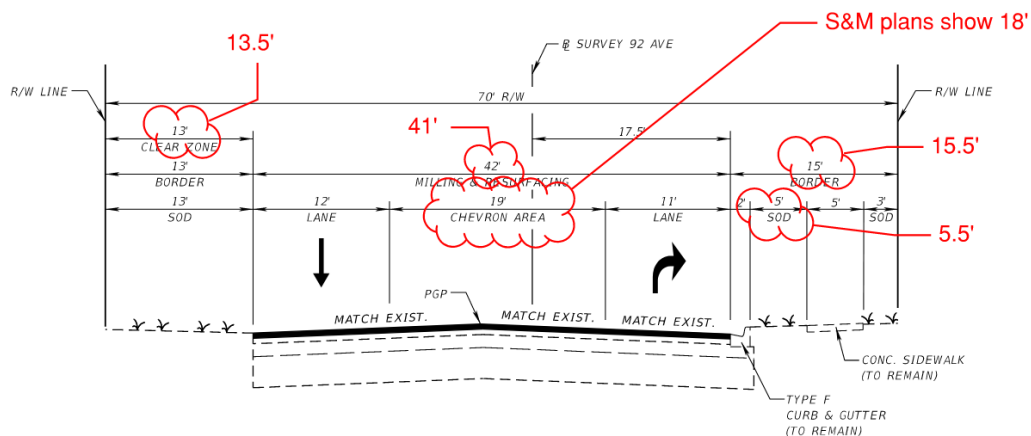


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# Consistency Across Different Disciplines

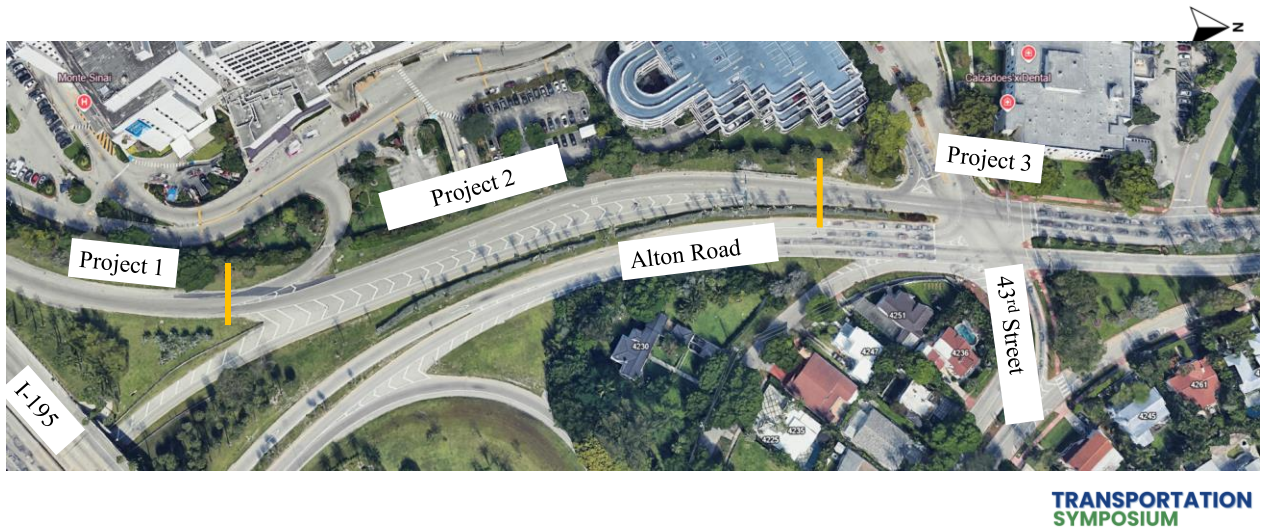


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## Consistency with Adjacent/Overlapping Projects



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## Consistency with Adjacent/Overlapping Projects



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# Consistency with Adjacent/Overlapping Projects



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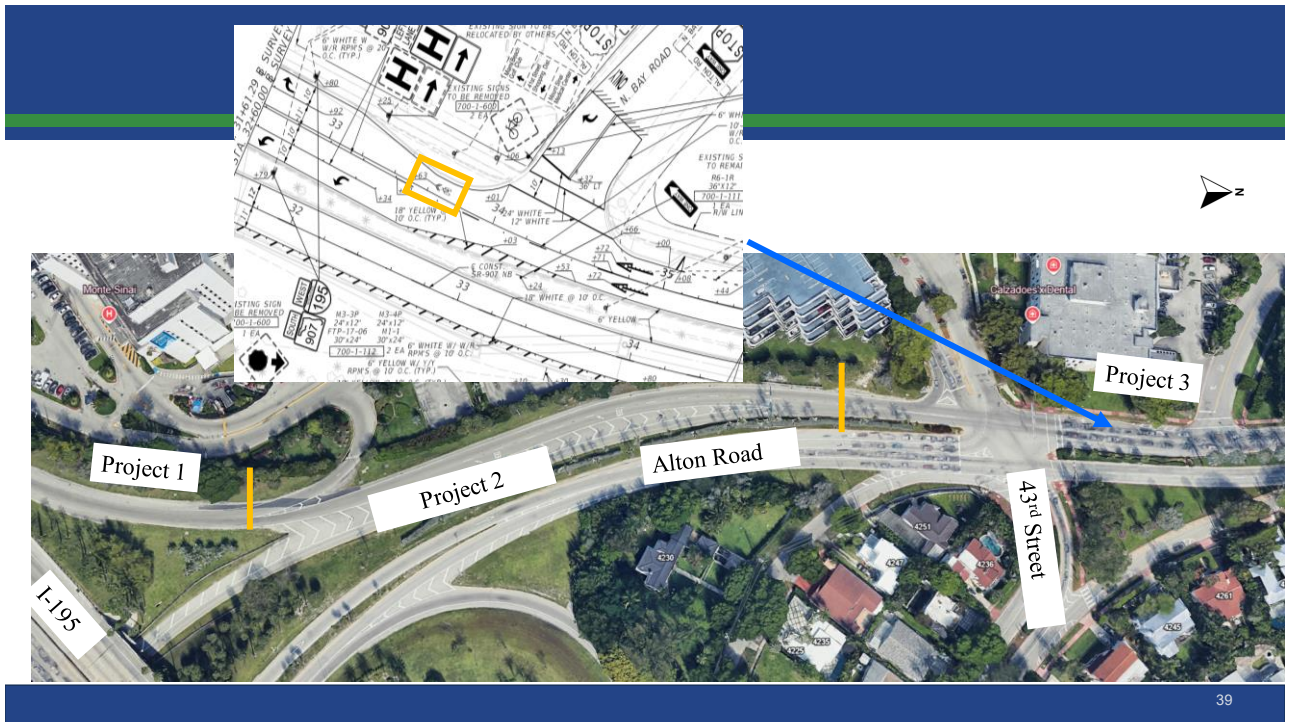
# Consistency with Adjacent/Overlapping Projects



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## Missing Design Documents

FDOT Electronic Review Comments

Home Submit Assignments Reports Settings District Documents

Select District: 06

- 1 District 6 Design Handbook
- 2 CADD Digital Delivery
- 3 Consultant Conference Presentations
- 4 DDAR
- 5 Drainage
- 6 EIMS
- 7 Environmental / Permitting
- 8 Estimates
- 9 Final Plans and Specifications
- 10 Landscape
- 11 Landscape Design Conference 2015
- 12 Lighting
- 13 Location / Survey
- 14 Project Suite
- 15 Public Involvement
- 16 QA/QC
- 17 Right of Way
- 18 Roadway

18 ksp, E&A, (Traffic) Loading, Request, Form, 2022.pdf

Access Management Plans Summary (2016-18).pdf

ADA Accessibility Guidelines (ADAAG) (2012-02).pdf

Benefit Cost Analysis Worksheet for Design Exceptions and Variations (2016-04).xlsx

Bicycle Ways Design Checklist (2011-02).pdf

Construction Revision Memo Template (2015-06).docx

Crash Data Request Form (2012-02).pdf

Crash Reduction Factors Spreadsheet (2010-06).xlsx

CURB AND GUTTER CONSTRUCTION DETAIL.dwg

State County Catalog of State Road Department Projects (2012-02).pdf

Design Guidelines for Continuous Green Intersections (1997-06).pdf

Design Submittal Checklist\_V0205-04-28.xlsx

Design Variation Memo Template (2017-04).docx

Design References for Crash Reduction Factors (2009-06).pdf

District 6 Pavement Design Guidelines (2023-03).pdf

District 6 Pavement Design Summary Sheets (2023-03).xlsx

District 6 Pavement Type Selection Guidelines (2012-03).pdf

IMPROVEMENT DETAILS.dwg

Description

18 ksp Request Form

Access Management Plans Summary for FDOT District 6

ADA Accessibility Guidelines (ADAAG)

District 6 Benefit Cost Analysis Worksheet for Design Exceptions and Variations. Required by the District in the preparation of Design Exceptions and Variations Packages.

Checklist for bicycle lanes on projects

Transmittal Memo for plans revisions during construction

Traffic Ops Crash Data Request Form

Crash Reduction Factors Spreadsheet. Used in the preparation of Design Exceptions and Variations Packages.

Curb and Gutter Construction Detail for District 6

Miami-Dade County catalog of roadway plans constructed by Miami-Dade County and now owned by FDOT.

Design Guidelines for the Development of Continuous Green Intersections

Design Submittal Checklist

Design Variation Memo template. Completed form is sent to the District Design Engineer for approval.

FDOT Desktop Reference for Crash Reduction Factors

District 6 Pavement Design Guidelines

District 6 Pavement Design Summary Sheets

District 6 Pavement Type Selection Guidelines

Plan driveway details for District 6. Includes a "Designer's Guide" document (do not include in plans).

TRANSPORTATION SYMPOSIUM

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# Phase Submittal Checklist

PROJECT INFORMATION				
PLANNING PROJECT NO.	0	STUDYING PROJECT	0	1/1/1 000
FEDERAL AID PROJECT NO.	0	(STUDYING PHASE)	0	
STATE ROAD NO. / LOCAL STREET NAME	0	LETTING DATE	0	1/1/1 000
PROJECT LIMITS	0	COUNTY	0	
DESIGN TEAM CONTACTS:				
FOOT PATH	0	IN-HOUSE PROJECT	0	
		ENGINEER/CONSULTANT PM -		
		CONTRACT MANAGER		
IN-HOUSE SECTION/CONSULTANT		IN-HOUSE PROJECT		
COMPANY NAME #		ENGINEER/CONSULTANT PM -		
		CONTRACT MANAGER		
		IN-HOUSE PROJECT		
		ENGINEER/CONSULTANT PM/DESIGN		
PHASE I (30%) SUBMITTAL CHECKLIST				
PLANS				
INCLUDED	N/A	ITEM	NOTES	
		ROADWAY PLANS		
		LANDSCAPE PLANS		
		TOTAL FACILITY PLANS		
		ALL LIMITS PROVIDED FOR REQUIREMENTS		
		OF THIS ROAD		
*Refer to "FOOT C&D Manual - Chapter 8 for appropriate file naming convention				
OTHER DELIVERABLES				
INCLUDED	N/A	ITEM	PM NAME	NOTES
		CADD/BIM DIRECTORY	0	
		Refer to C&D Manual section 8.0.2 and 8.1.1 and		
		Production Quality Requirements for C&D/BIM		
		Refer to: Design Manual and Construction C&D		
		Refer to: TOWN AND ZONING C&D/FOOT PATH on this		
		Project or Information about C&D/BIM on this		
		ADMM DOCUMENTS (SEE BIDDING)	0	
			0	

Design Submittal Checklist\_V0325-04-38 (2)

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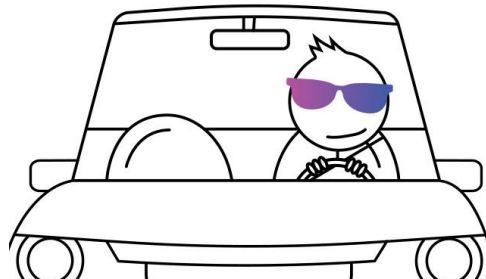
ADMIN ZIP				
REQUIRED	N/A	ITEM	FILE NAME	NOTES
		1. STATE	STATE.zip	
		2. PRELIMINARY CHECKLIST	PRELIMINARYCHECKLIST.docx	
		3. QUALITY CONTROL - CERTIFICATE OF COMPLIANCE	CC-COMPLIANCE.pdf	
		4. QUALITY CONTROL - RULES	CC-RULES.pdf	
		5. FINAL SUBMITTAL CERTIFICATION	SubmittalCert-Phase1.pdf	
		6. LETTER OF PROJECT VERIFICATION	LetterOfProjectVerification-Phase1.pdf	
		7. DESIGN CERTIFICATION	DESIGNCERT.pdf	
		8. DRAFT TYPING SECTION PACKAGE	SectionPackage-Phase1.pdf	
		9. GREEN-COLORED RED-LINE LAYOUTS	Green-Colored-Red-Line-Layers-Submission-Phase1.pdf	
		10. STRUCTURES REPORT/CALCULATIONS	StructuresReportCalculations-Phase1.pdf	
		11. FINISH SCHEDULE	FinishSchedule-Phase1.pdf	
		12. FINISH SCHEDULE	FinishSchedule-Phase1.pdf	
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## Safety Message

Early. On time. A little late.  
**JUST GET THERE SAFELY.**

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## Contact Us

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 June 19 - 20, 2025  
 Hollywood, FL




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Please be sure to **certify your attendance** before leaving this event or no later than **Monday, June 30**, in order to receive PDH/CEC. Detailed instructions are available on the Transportation Symposium website.

Transportation Symposium Website



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