

AECOM 315 East Robinson St; Ste 245 Orlando, FL 32801 www.aecom.com 407 422 0353 tel 407 423 2695 fax

Subject	I-4 Beyond the Ultimate; Orange Co. Typical Secti	on Package Revisions NU.0
Date	03/21/18	= * 1/1/2
То	Su Hao, PE; FDOT Project Manager	61
From	Bill Liatsos, PE	The Stor

Background/Purpose: In February of 2017, a PD&E Typical Section Package was submitted Department for I-4 Beyond the Ultimate. The purpose of this memo is to identify revisions made to the I-4 Beyond the Ultimate Typical Section Package within the Orange County project area. Revisions and proposed typicals are listed as follows.

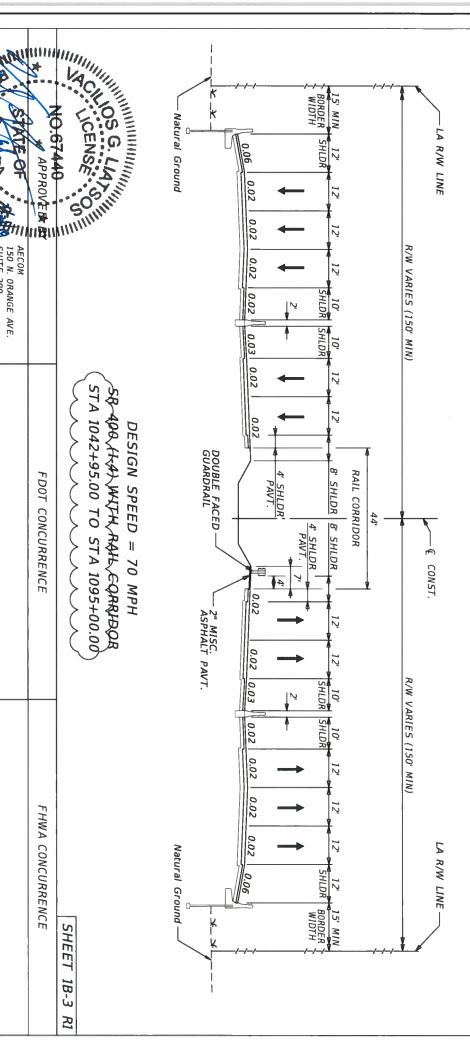
Sheet No.	Revisions/Updates
1B-3 R1	Updated the station limits using PD&E Stationing, to omit the portion of I-4 that is covered by the new typical section Sheet 1B-3A R1 and Sheet 1B-5A R1.
1B-3A R1	A new section was developed to show the omitted station range from Sheet 1B-3 R1. It shows EB GUL on fill and 2-lane CD's on both EB and WB through the SR 536 interchange.
1B-5 R1	The section was revised to separate the DCP ramp and the EB GUL onto their own hammerhead piers.
1B-5A R1	A new section was developed (similar to Sheet 1B-3A R1) to show the WBCD, WB GUL on fill, and EB off ramp B_CFP.
1B-6 R1	The section was revised to show the EB GUL and the EB XL on a single structure.
1B-8 R1	The ramps, design speeds and movement descriptions in the typical section were updated based on the Line & Grade typical sections.
1B-9 R1	The ramps, design speeds and movement descriptions in the typical section were updated based on the Line & Grade typical sections.
1B-10 R1	The ramps, design speeds and movement descriptions in the typical section were updated based on the Line & Grade typical sections.
1B-11 R1	The ramps, design speeds and movement descriptions in the typical section were updated based on the Line & Grade typical sections.
1B-12 R1	The ramps, design speeds and movement descriptions in the typical section were updated based on the Line & Grade typical sections.
1B-17 R1	The inside CD shoulders (EB and WB) were reduced to an 8-foot width. The outside CD lanes (EB and WB) were labeled as "AUX".
1B-24 R1	The section was revised to a single span bridge, the median width was reduced to 30-feet, and the bike lane was removed in the SB direction and replaced with a 10-foot Multi-Use Trial.
1B-25 R1	The bike lane in the SB direction was removed and replaced with a 10-foot Multi- Use Trail. The inside barrier wall was removed on SB lefts and replaced with curb & gutter.
1B-26 R1	The NB and SB sidewalks were revised to 10-foot Multi-Use Trails. The SB turn lane was revised to a 3.5% slope.

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1B-28 R1	An additional 11-foot lane was added to the inside. The outside lane was labeled as "AUX".
1B-29 R1	The right sidewalk was adjusted to a 10-foot Multi-Use Trail. The left sidewalk was removed. Both sides have a 16-foot minimum from the curb & gutter.
1B-30 R1	The right sidewalk was adjusted to a 10-foot Multi-Use Trail, with 4 feet between the curb & gutter and the trail. The left sidewalk was removed.
1B-31 R1	The outside shoulder on the elevated turn lanes was adjusted to a 6-foot width.
1B-44 R1	The section was revised to match the Interim DCP typical. This includes 12-foot lanes, 4-foot inside bike lanes, 5-foot inside shoulders, and ±10.3-foot outside shoulders.

SECTION NO. FINANCIAL PROJECT ID PROJECT DESCRIPTION 75280 WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472. 432100-1-22-01 FEDERAL AID PROJECT NO. ROAD DESIGNATION SR 400 (1-4) N/A LIMITS/MILEPOST COUNTY NAME MP 0.000 - 9.528 ORANGE

PROPOSED ROADWAY TYPICAL SECTION



Bill.Liatsos Enginee

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MARIO BIZZIO, P.E. FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

FHWA CONCURRENCE

SHEET

18-3 RI

SUITE 200 ORLANDO, FL 32801 (407) 422-0353 CERT OF AUTH NO 8115

150 N. ORANGE AVE

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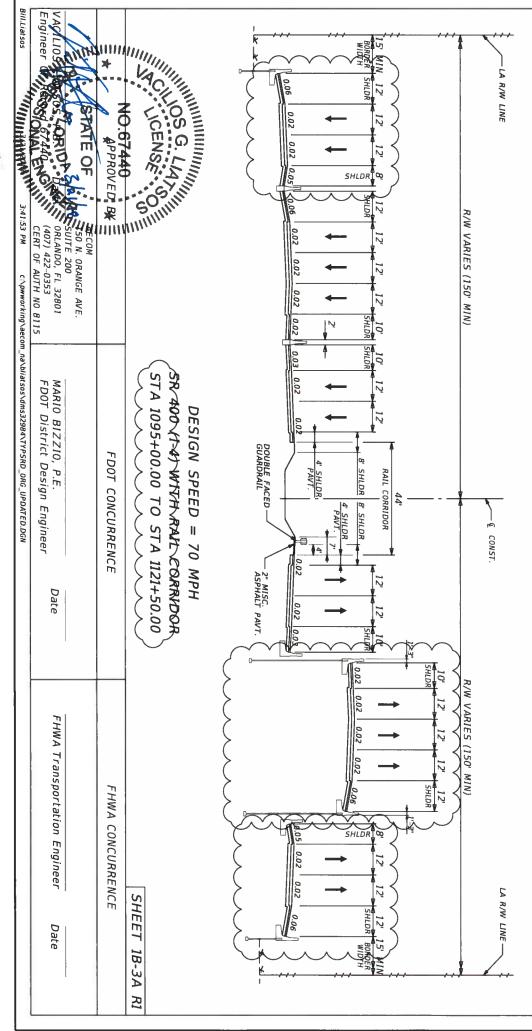
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DESIGN SPEED = 70 MPH

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PROPOSED ROADWAY TYPICAL SECTION



Bill.Liatsos Engineer

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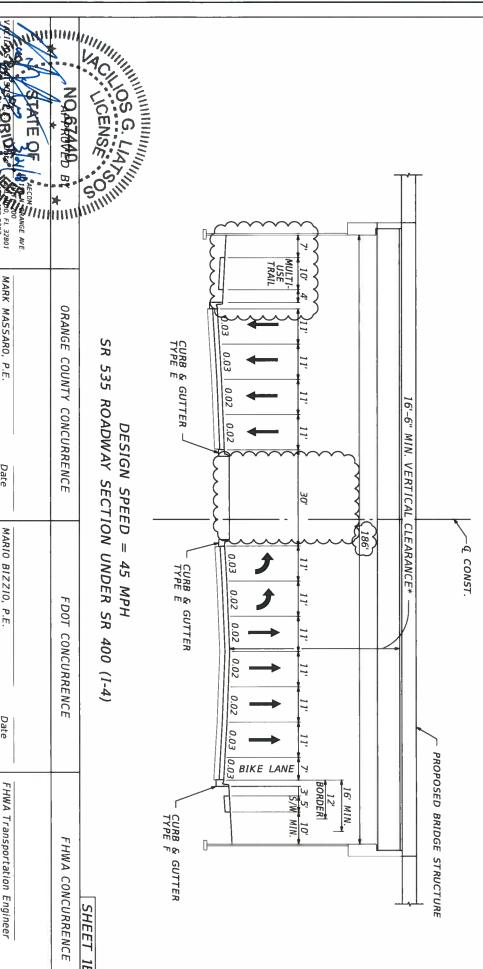
FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND ROAD DESIGNATION LIMITS/MILEPOST MP 0.000 - 9.528

SR 400 (1-4)

FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



SR 535 ROADWAY SECTION UNDER SR 400 (I-4) DESIGN SPEED = 45 MPH

FHWA CONCURRENCE

SHEET 1B-24 R1

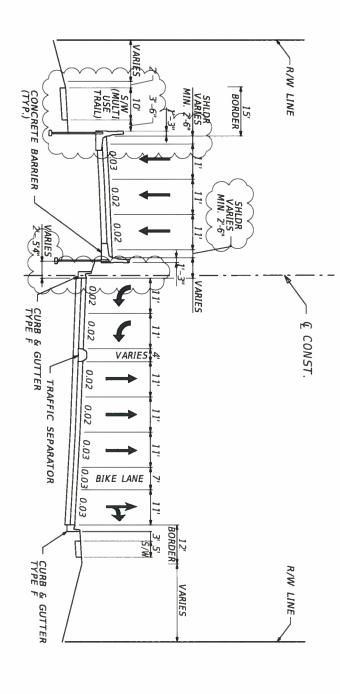
ORANGE COUNTY CONCURRENCE Date MARIO BIZZIO, P.E. FDOT District Design Engineer FDOT CONCURRENCE Date FHWA Transportation Engineer Date

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MARK MASSARO, P.E. Public Works Director

I	PROJECT DESCRIPTION _	SECTION NO75280	FINANCIAL PROJECT ID
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	AND	LIMITS/MILEPOST MP 0.000 - 9.528	COUNTY NAME
		MP 0.000 - 9.528	ORANGE

PROPOSED ROADWAY TYPICAL SECTION

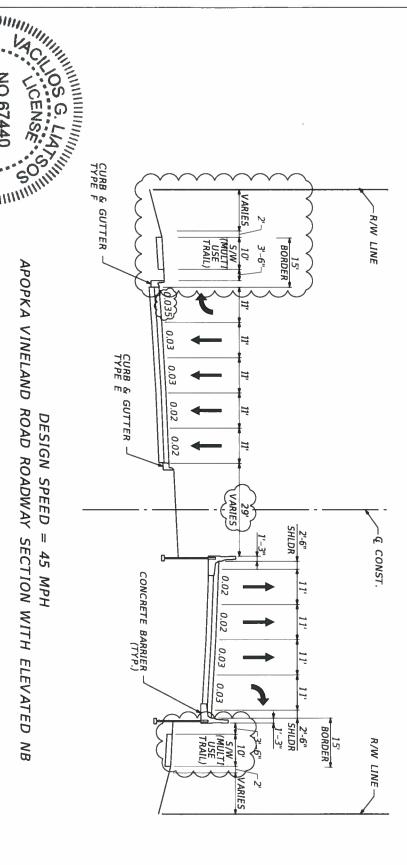


SR 535 ROADWAY SECTION WITH ELEVATED SB DESIGN SPEED = 45 MPH

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	ATED.DGN	c:\pwworking\aecom na\bliatsos\dms32984\TYPSRD ORG UPDATED.DGN	Bill.Liatsos // STUNAL 3:41:56 PM
FHWA Transportation Engineer Date	MARIO BIZZIO, P.E. FDOT District Design Engineer	MARK MASSARO, P.E. Public Works Director	INDICATE OF THE PROPERTY OF AUTH NO 8115
			PATE OF ASSESSMENT AVE.
FHWA CONCURRENCE	FDOT CONCURRENCE	ORANGE COUNTY CONCURRENCE	NO.678AOVED BY
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PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND SECTION NO. FINANCIAL PROJECT ID. 75280 FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472. 432100-1-22-01 FEDERAL AID PROJECT NO. ROAD DESIGNATION SR 400 (1-4) N/A LIMITS/MILEPOST MP 0.000 - 9.528 COUNTY NAME ORANGE

PROPOSED ROADWAY TYPICAL SECTION



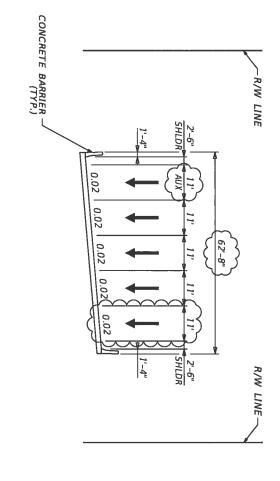
APOPKA VINELAND ROAD ROADWAY SECTION WITH ELEVATED NB DESIGN SPEED = 45 MPH

BIII.Liatsos "11111111111111111111111111111111111	Enginee PARA CONTACT DATE TO ALANDO, FL 32801 MARK MASSARO, P.E. 4407) 422-0353 Public Works Director	STALL OF COMMISE AVE	AMPROVED BY	: NO 67440
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TED.DGN	MARIO BIZZIO, P.E. FDOT District Design Engineer		FDOT CONCURRENCE	
	FHWA Transportation Engineer Date		FHWA CONCURRENCE	SHEET 1B-26 R1

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND SECTION NO. 92130 FINANCIAL PROJECT ID. 432100-1-22-01 ROAD DESIGNATION FEDERAL AID PROJECT NO. SR 400 (1-4) N/A LIMITS/MILEPOST MP 0.000 - 7.885 COUNTY NAME ORANGE

PROPOSED STRUCTURE TYPICAL SECTION

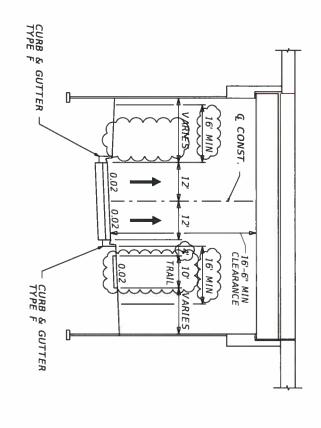
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.



. 5				
Bill.Liatsos 3:41:57 PM	Figineer A PLOYA 67440 ONAL STATE OF AUTH NO 8115	STATE OF PRECON SEANCE AVE	* APPROVED BY	INTERIOR OF LANGE
c:\pwworking\aecom_na\bliatsos\dms32984\TYPSRD_ORG_UPDATED.DGN	MARK MASSARO, P.E. Public Works Director		ORANGE COUNTY CONCURRENCE	DESIGN SPEED = 45 M SR 535 SB BRIDGE SECTION OVER V
4TED.DGN	MARIO BIZZIO, P.E. FDOT District Design Engineer		FDOT CONCURRENCE	DESIGN SPEED = 45 MPH SR 535 SB BRIDGE SECTION OVER VINELAND AVENUE
0 10 10 10 10 10 10 10 	FHWA Transportation Engineer Date		FHWA CONCURRENCE	SHEET 1B-28 RI

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FINANCIAL PROJECT ID_ SECTION NO. FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472. 432100-1-22-01 FEDERAL AID PROJECT NO. ROAD DESIGNATION SR 400 (1-4) N/A COUNTY NAME LIMITS/MILEPOST MP 0.000 - 9.528 ORANGE

PROPOSED ROADWAY TYPICAL SECTION



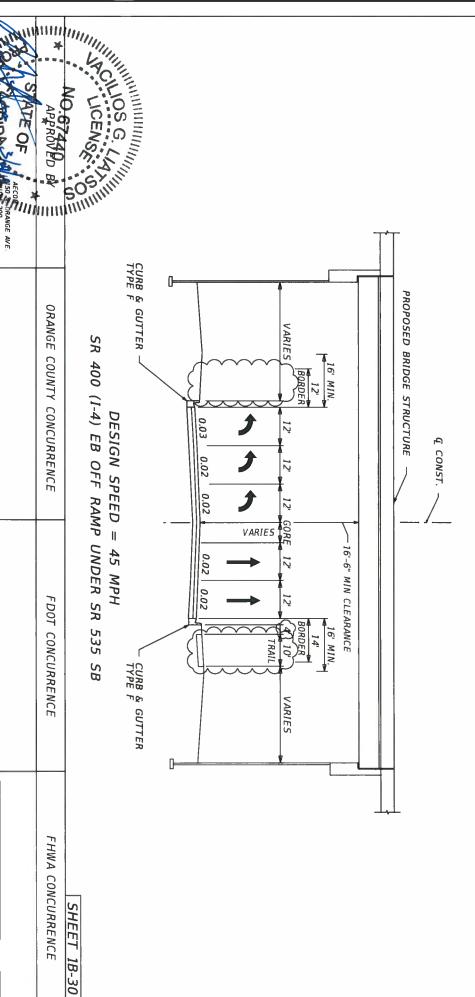
HOTEL PLAZA LOOP RAMP UNDER APOPKA VINELAND ROAD NB DESIGN SPEED = 45 MPH

NO.87440 "H" STONAL END LEST OF AUTH NO 8115 AECON ORANGE AVE. MARK MASSARO, P.E. Public Works Director ORANGE COUNTY CONCURRENCE Date MARIO BIZZIO, P.E. FDOT District Design Engineer FDOT CONCURRENCE Date FHWA Transportation Engineer FHWA CONCURRENCE SHEET 18-29 Date RI

Bill.Liat sos

SECTION NO. PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FINANCIAL PROJECT ID_ FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472. 432100-1-22-01 FEDERAL AID PROJECT NO. ROAD DESIGNATION PROJECT IDENTIFICATION SR 400 (1-4) N/A LIMITS/MILEPOST MP 0.000 - 9.528 COUNTY NAME ORANGE

PROPOSED ROADWAY TYPICAL SECTION



BIII.Liat sos

THAL ENGINEER OF AUTH NO 8115

MARK MASSARO, P.E. Public Works Director

Date

MARIO BIZZIO, P.E. FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

ORANGE COUNTY CONCURRENCE

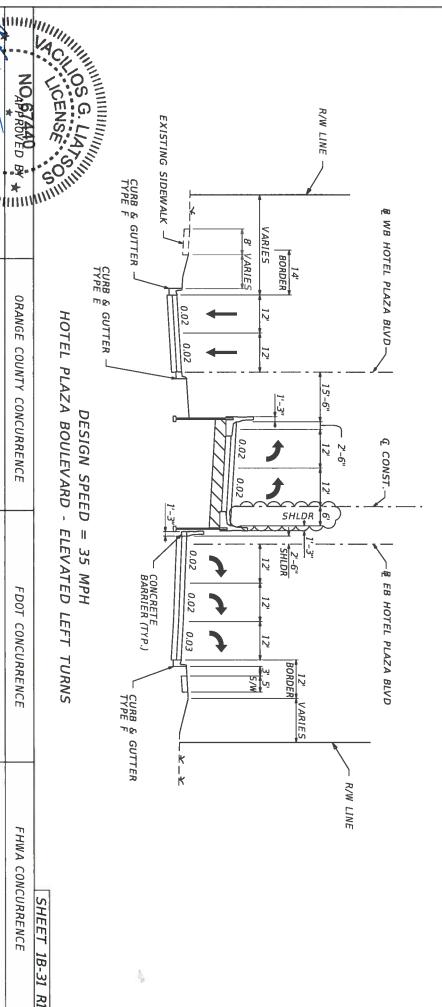
FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1B-30 RI

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND SECTION NO. FINANCIAL PROJECT ID 75280 FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472. 432100-1-22-01 FEDERAL AID PROJECT NO. ROAD DESIGNATION SR 400 (1-4) N/A LIMITS/MILEPOST COUNTY NAME MP 0.000 - 9.528 ORANGE

PROPOSED ROADWAY TYPICAL SECTION



Bill.Liatsos

ORANGE AVE.

MARK MASSARO, P.E. Public Works Director

Date

MARIO BIZZIO, P.E. FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

ORANGE COUNTY CONCURRENCE

FDOT CONCURRENCE

FHWA CONCURRENCE

* APROVED BY * EXISTING RAISED CONCRETE SIDEWALK AND BRIDGE RAILING TO BE REMOVED AND A NEW BRIDGE RAILING TO BE CONSTRUCTED. PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND SECTION NO. FINANCIAL PROJECT ID FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472. 432100-1-22-01 & CONST. EB DCP. MARK MASSARO, P.E. Public Works Director ORANGE COUNTY CONCURRENCE 10.3'+ SHLDR 0.02± 0.02± 0.02± 0.02± 0.02± PROPOSED CONC BARRIER EXISTING STRUCTURE TYPICAL EXIST TRAFFIC SEPARATOR TO BE REMOVED ROAD DESIGNATION FEDERAL AID PROJECT NO. **DIVERGING DIAMOND INTERCHANGE** PROJECT IDENTIFICATION DESIGN SPEED DARYL CARTER PARKWAY 39.5' BIKE LANE Date SHLDR 6.5 M/S 10.33 124'± MARIO BIZZIO, P.E. FDOT District Design Engineer 6.5 = 40 MPH & DARYL CARTER PKWY SHLDR 5 0.02± 0.02± BRIDGE DECKS TO BE CONNECTED IN ORDER TO ACCOMODATE PROPOSED S/W SR 400 (1-4) N/A PROPOSED CONC BARRIER 39.5' FDOT CONCURRENCE ► EXIST BRIDGE 0.02± |0.02± |0.02± SECTION 12' 10.3'± 160 CONST. WB DCP Date LIMITS/MILEPOST COUNTY NAME EXISTING RAISED BRIDGE RAILING TO BRIDGE RAILING TO FHWA Transportation Engineer MP 0.000 - 9.528 FHWA CONCURRENCE ORANGE SHEET 1B-44 R1 Date