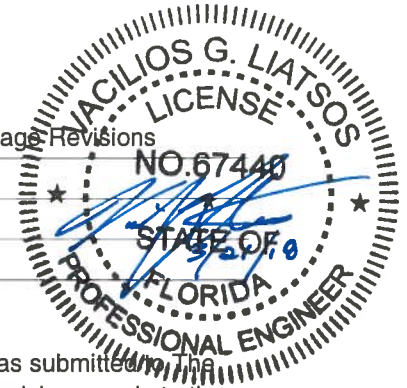


AECOM
Memorandum

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; Osceola Co. Typical Section Package Revisions
Date 03/21/18
To Su Hao, PE; FDOT Project Manager
From Bill Liatsos, PE



Background/Purpose: In February of 2017, a PD&E Typical Section Package was submitted to the 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 Osceola County project area. Revisions and proposed typicals are listed as follows.

Sheet No.	Revisions/Updates
1A-5 R1	The inside shoulders of I-4 over CR 532 were adjusted to 6 feet wide.
1A-8 R1	The ramps and design speeds were updated for one lane ramps per the Line & Grade typical sections.
1A-9 R1	The ramps and design speeds were updated for two lane ramps per the Line & Grade typical sections.
1A-10A R1	A new typical section of SR 429 widening.
1A-11A R1	A new typical section of 2 lane bridge ramp.
1A-13 R1	The typical was modified to a 2 span bridge with a 10-foot sidewalk on the right side of the pier.
1A-16 R1	A third lane was added to the EB I-4 express lane under NB SR 429.
1A-17 R1	A third lane was added to the EB I-4 express lane under SB SR 429.
1A-24 R1	A third lane was added to the EB I-4 CD road. The inside shoulder of the WB I-4 CD road was adjusted to 8 feet wide.
1A-25 R1	The outside curb and gutter for World Drive was replaced by a 10 foot shoulder (5 foot paved). The inside shoulder cross slope was adjusted to 5%.
1A-25A R1	A new typical section of NB World Drive under EB ramp C3_WD.
1A-27 R1	The design speed was modified to 50 MPH and the inside shoulder of SB SR 417 was adjusted to 8 feet wide.
1A-29 R1	The typical was modified to show NB SR 417 widening.
1A-39 R1	EB Osceola Pkwy. ramp was moved to the WB bridge and the outside shoulder was adjusted to 7 feet wide.
1A-40 R1	The shoulders of Osceola Pkwy. were modified to 10 feet wide.
1A-41 R1	Bike lane on EB Osceola Pkwy. was adjusted to 4 feet wide and milling and resurfacing was shown on WB Osceola Pkwy.

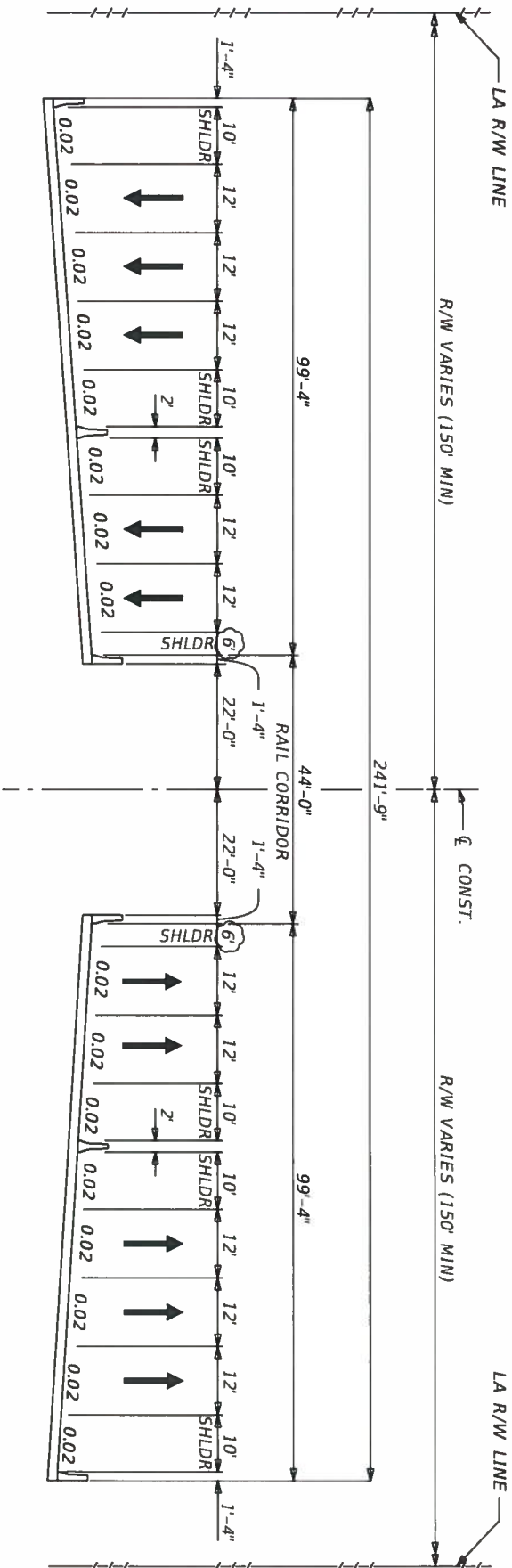
PROJECT IDENTIFICATION

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

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) 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.

PROPOSED STRUCTURE TYPICAL SECTION



DESIGN SPEED = 70 MPH
SR 400 (1-4) BRIDGE OVER CR 532

FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1A-5 R1

NO. 67440



STATE OF FLORIDA

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(407) 422-0353
CERT OF AUTH NO 8115

VACILIOS G. LIATSOS
Engineer
Professional Engineer
No. 67440

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

PROJECT IDENTIFICATION

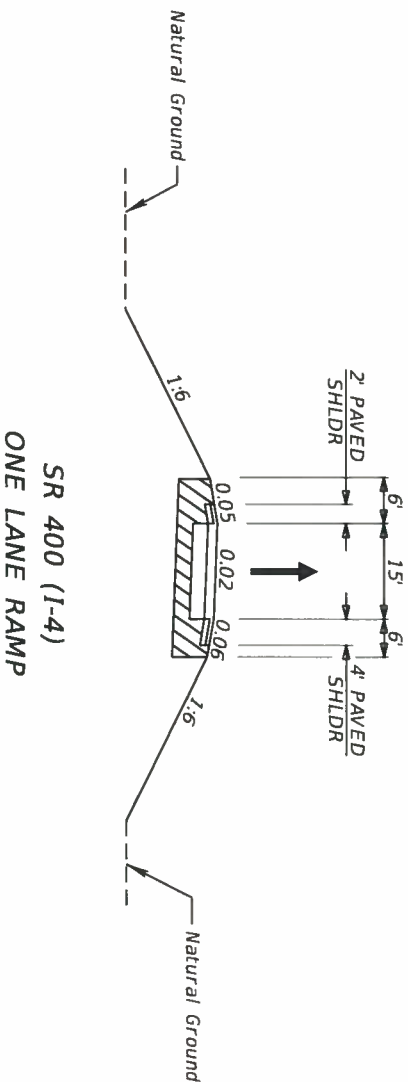
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SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) 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 429

RAMP	MOVEMENT	DESIGN SPEED (MPH)	RAMP	RAMP	DESIGN SPEED (MPH)
A2_532	EB_532 TO WB_14 GUL	50	B1_0P	EB_14 GUL TO EB_0P	50
C1_532	WB_532 TO EB_14 GUL	50	B2_0P	EB_14 GUL TO WB_0P	60-30
D1_532	WB_14 GUL TO WB_532	50	B3_0P	EB_14 XL TO EB_0P	50
B1_532	EB_14 GUL TO EB_532	50	C_0P	WB_0P TO EB_14 GUL	20-50
A2_429	SB_429 TO 14 WB_XL	50	D2_0P	WB_14 GUL TO EB_0P	50-30
A3_429	SB_429 TO 14 EB_GUL	50	C1_530	WB_530 TO EB_14 GUL	30-50
B2_429	EB_14 XL TO NB_429	50	C2_530	WB_530 TO WB_14 GUL	40 - 50 EXISTING
C_429	SB_429 TO 14 EB_XL	50			
D1_429	WB_14 GUL TO NB_429	50			
D2_429	WB_14 XL TO NB_429	45			
B1_429	EB_14 GUL TO NB_429	50			
A1_WD	EB_WD TO WB_CD_WD	50			
A2_WD	WB_CD_WD TO EB_WD	30			
B_WD	EB_CD_WD TO EB_WD	45			
C1_WD	WB_WD TO EB_CD_WD	40-50			
C2_WD	EB_CD_WD TO WB_WD	30			
A2_417	SB_417 TO WB_14_XL	55			
B2_417	EB_14_XL TO NB_417	50			
A1_530	EB_530 TO WB_14_GUL	35-50			
B1_530	EB_14_GUL TO EB_530	50			
B2_530	EB_14_GUL TO WB_530	50-30			
D2_530	WB_14_GUL TO EB_530	50-30			
A1_0P	EB_0P TO WB_14_GUL	35-50			
A2_0P	WB_0P TO WB_14_GUL	20-50			
A3_0P	WB_14_GUL TO EB_0P	40-50			

PROPOSED ROADWAY TYPICAL SECTION



FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1A-8 RI

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VACILATION 150 N. ORANGE AVE.
ENGINEER 150 N. ORANGE AVE.
PROFESSIONAL ENGINEER 150 N. ORANGE AVE.

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01

FEDERAL AID PROJECT NO. N/A

COUNTY NAME OSCEOLA

SECTION NO. 92130

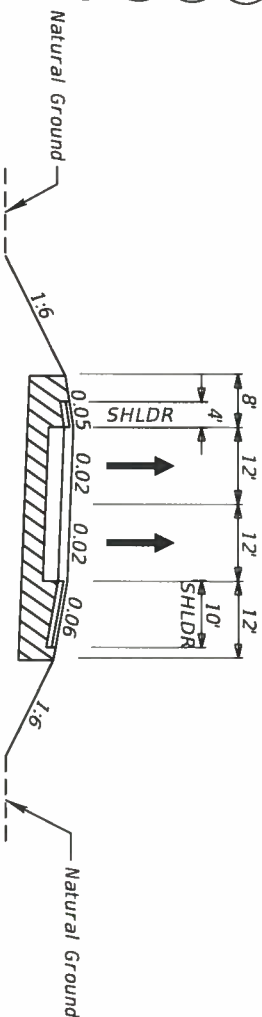
ROAD DESIGNATION SR 400 (1-4)

LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

RAMP	MOVEMENT	DESIGN SPEED (MPH)
A1_532	EB_532 TO WB_14_GUL	50
C1_532	WB_532 TO EB_14_GUL	50
A1_429	SB_429 TO 14_WB_GUL	50
A3_429	SB_429 TO 14_EB_GUL	50
B1_429	EB_14_GUL TO NB_429	50
D_WD	WBCD_WD TO WB_WD	40
C3_WD	EB_WD TO EBCD_WD	35-50
A1_417	SB_417 TO WBCD_WD	50
B1_417	EBCD_WD TO NB_417	60
A2_530	EB_530 TO EB_14_GUL	50
B1_530	EB_14_GUL TO EB_530	50
D1_530	WB_14_GUL TO WB_530	50
A3_OP	EB_OP TO EB_14_GUL	40-50
D1_OP	WB_14_GUL TO WB_OP	50

PROPOSED ROADWAY TYPICAL SECTION



SR 400 (1-4)
TWO LANE RAMP



FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1A-9 R1

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FDOT District Design Engineer
Date

FHWA Transportation Engineer
Date

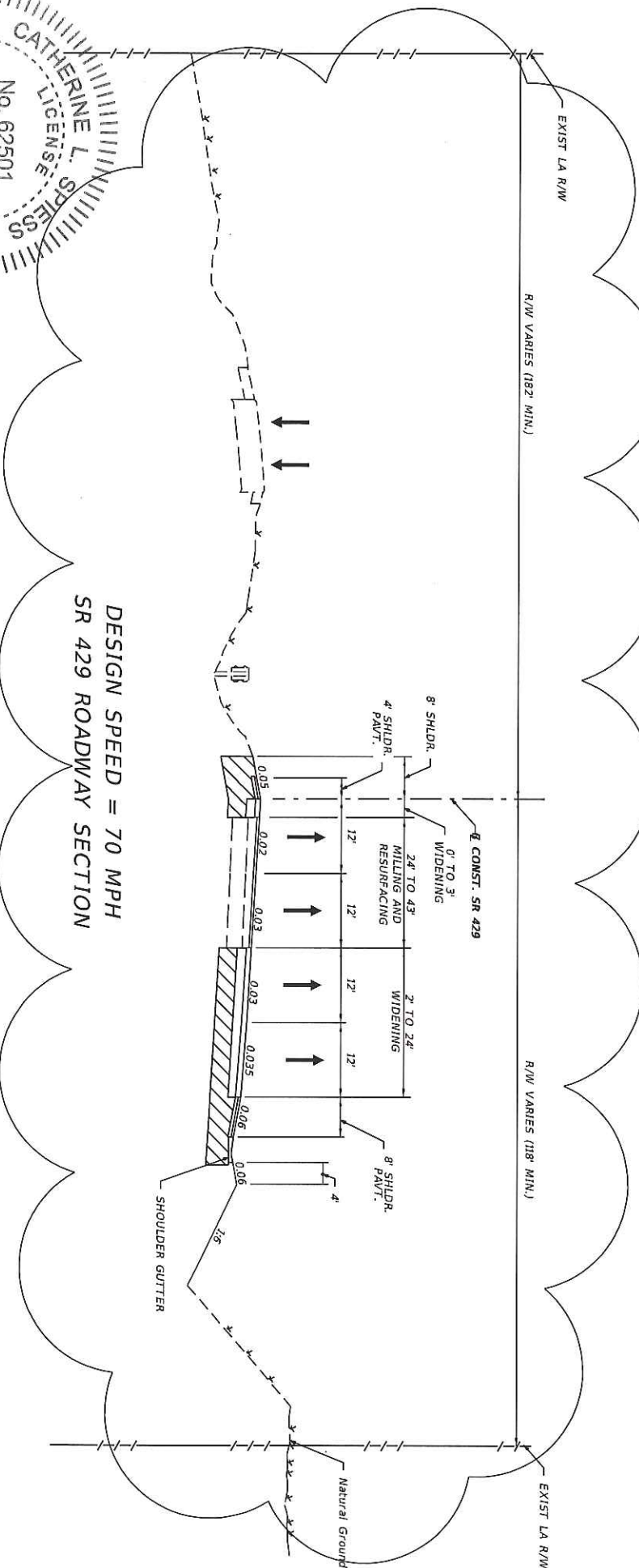
PROJECT IDENTIFICATION

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

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



SHEET 1A-10A RI

APPROVED BY STATE OF FLORIDA

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LICENSE
No. 62501

CATHERINE L. SPIESS, P.E.
Engineer of Record 62501
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SUITE 200
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CERT. OF AUTH. NO 7074

FDOT TURNPIKE CONCURRENCE

FDOT CONCURRENCE

FHWA CONCURRENCE

PATRICK MUENCH, P.E.
Turnpike District Design Engineer

MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

PROJECT IDENTIFICATION

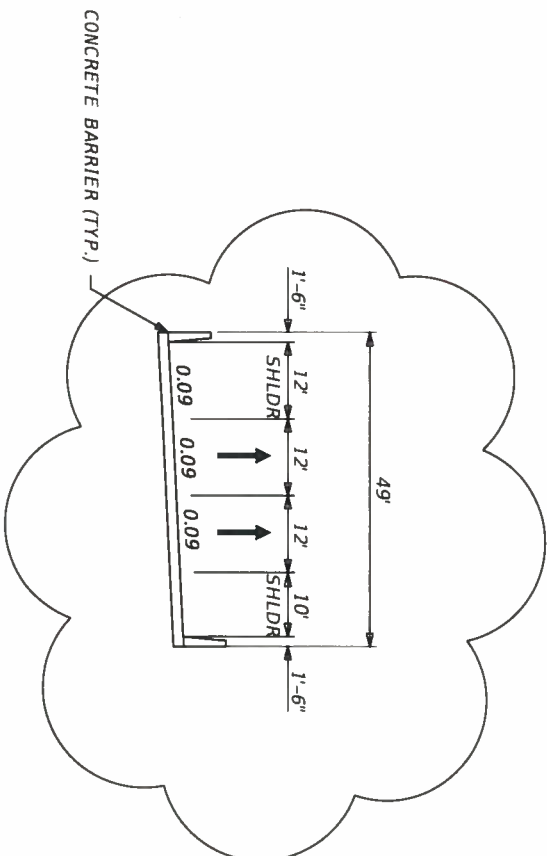
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PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

RAMP	RAMP	DESIGN SPEED (MPH)
C3_WD	EB_WD TO EBCD_WD	35-50

PROPOSED STRUCTURE TYPICAL SECTION



SR 400 (1-4)
TWO LANE BRIDGE RAMP

SHEET 1A-11A R1

FDOT CONCURRENCE

FHWA CONCURRENCE

NO. 67440

APPROVED

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VACILIOS G. LIATOS
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PROFESSIONAL ENGINEER
NO. 67440

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

Bill Liatos

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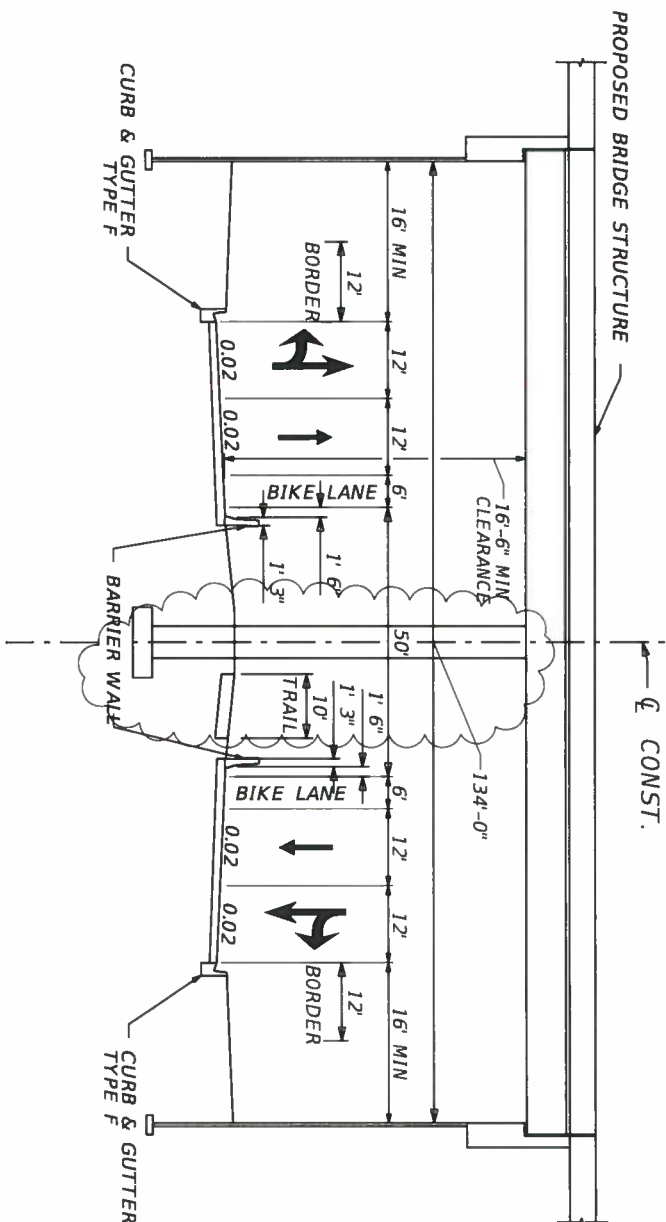
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SECTION NO. 92130 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION 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 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



CR 532 ROADWAY SECTION UNDER SR 400 (I-4)
DIVERGING DIAMOND INTERCHANGE

OSCEOLA COUNTY CONCURRENCE

FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1A-13 RI

NO. 67440
APPROVED BY



STATE OF FLORIDA

VACILLOS G. LIATSOS
Professional Engineer
License No. 67440
OSCEOLA COUNTY, FL 32801
Engineer's Office 422-0353
OFFICE OF AUTH NO 8115

FRANK RAYMOND, P.E.
Director of Public Works

Date

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

Bill Liatsos

10/18

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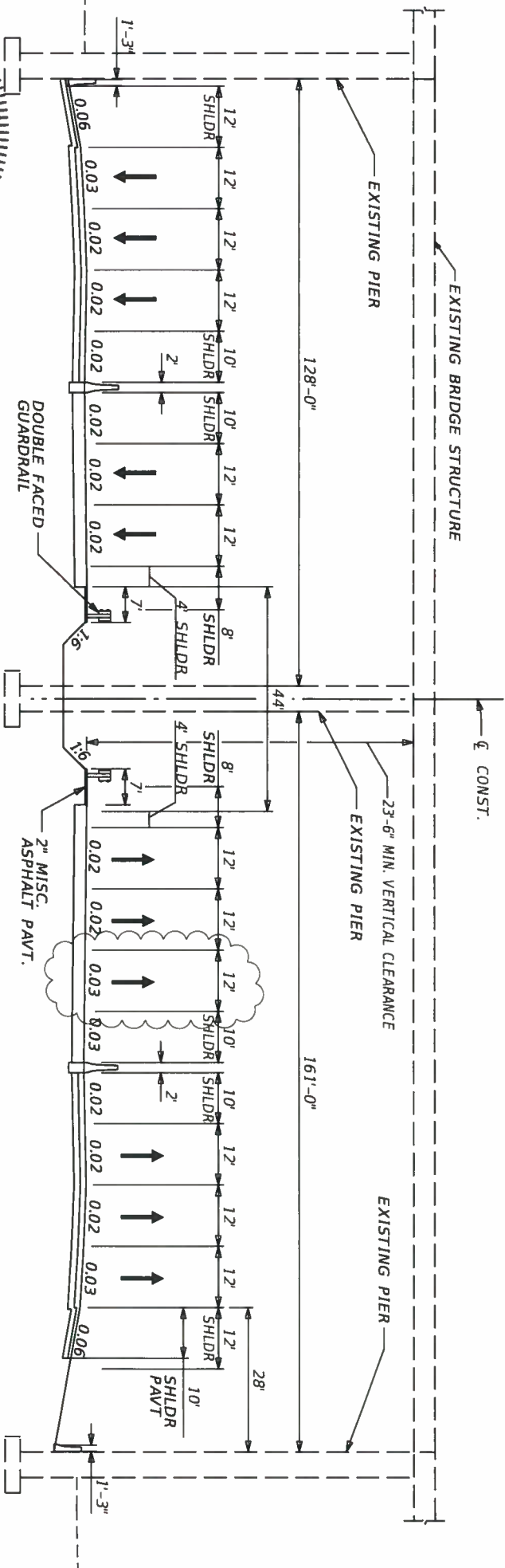
PROJECT IDENTIFICATION

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

SECTION NO. 75280 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 0.559

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF SR 25/US 27 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER SR 429 NORTHBOUND RAMP

SHEET 1A-16 RI

FDOT CONCURRENCE

FHWA CONCURRENCE

NO. 67440

APPROVED BY

STATE OF FLORIDA

AEOM 150 N. ORANGE AVE. SUITE 200 ORLANDO, FL 32801 (407) 422-0353 CERT OF AUTH NO 8115

MARIO BIZZIO, P.E. FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

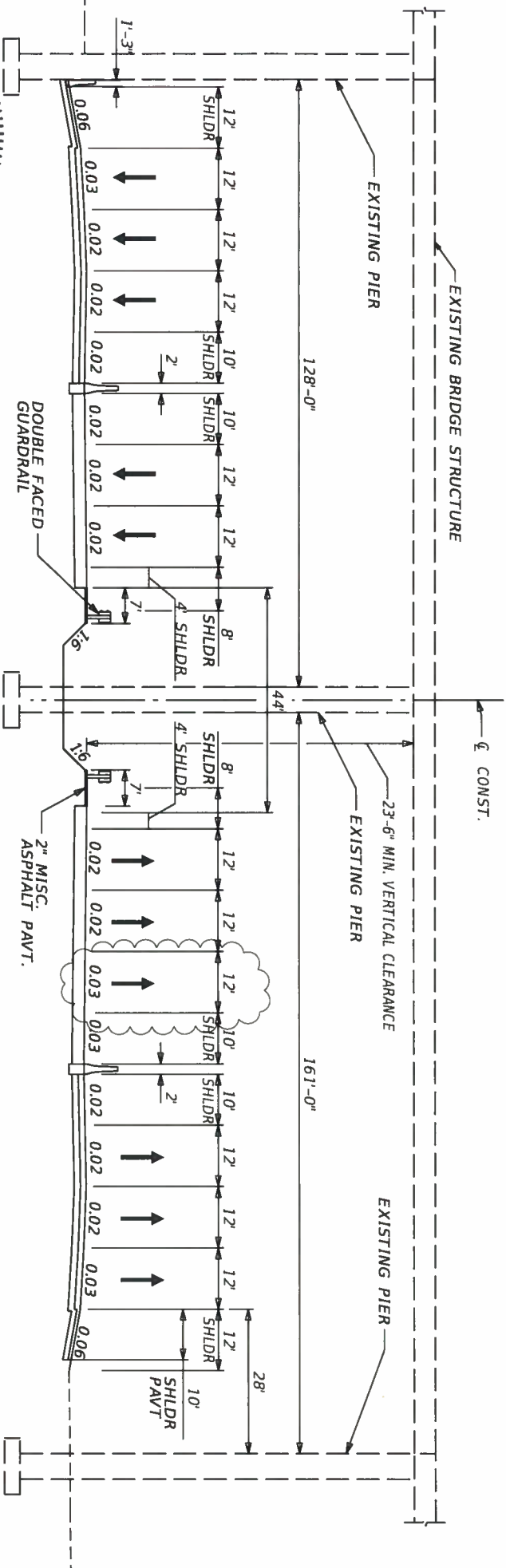
PROJECT IDENTIFICATION

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SECTION NO. 75280 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 0.559

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF SR 25/US 27 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER SR 429 SOUTHBOUND TO EASTBOUND I-4

SHEET 1A-17 RI

FDOT CONCURRENCE

FHWA CONCURRENCE

NO. 67440

APPROVED BY

STATE OF

ACCOM 150 N. ORANGE AVE. SUITE 200 ORLANDO, FL 32801 (407) 422-0353 CERT. OF AUTH. NO. 8115

MARIO BIZZIO, P.E. FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

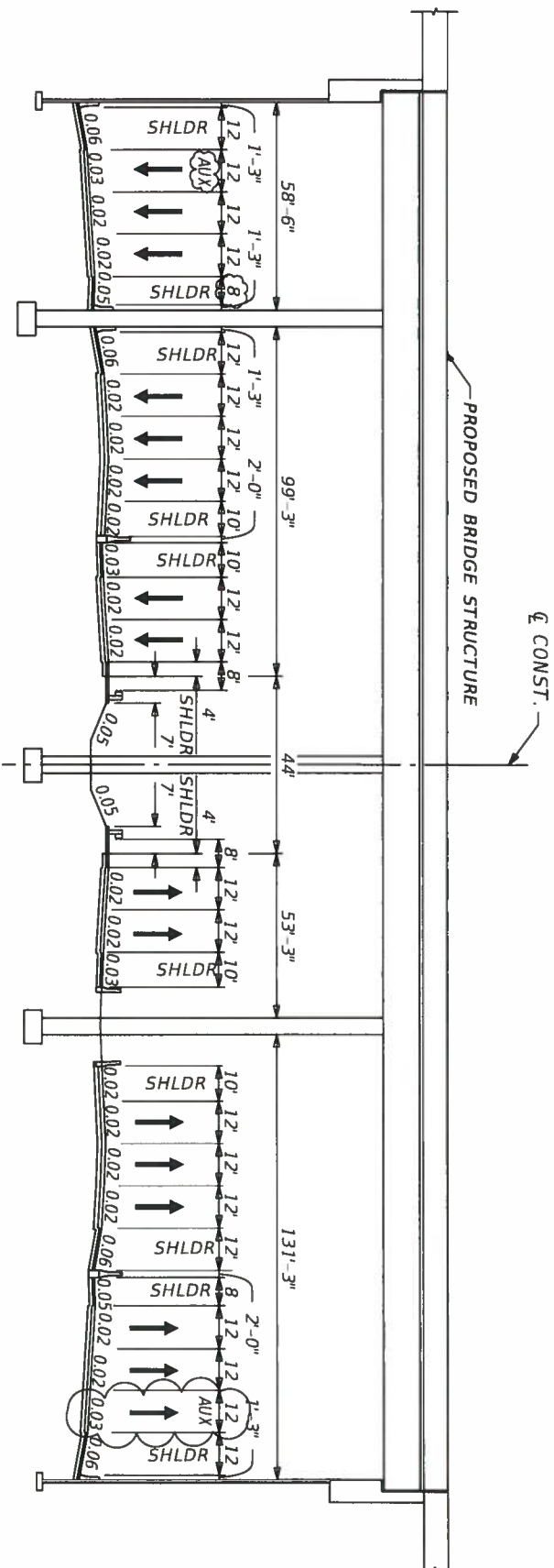
PROJECT IDENTIFICATION

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

SECTION NO. 92130 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION 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 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



DESIGN SPEED = 70 MPH

SR 400 (I-4) UNDER EASTBOUND AND WESTBOUND WORLD DRIVE

SHEET 1A-24 RI

FDOT CONCURRENCE

FHWA CONCURRENCE

STATE OF FLORIDA

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MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

NO. 67440
APPROVED BY



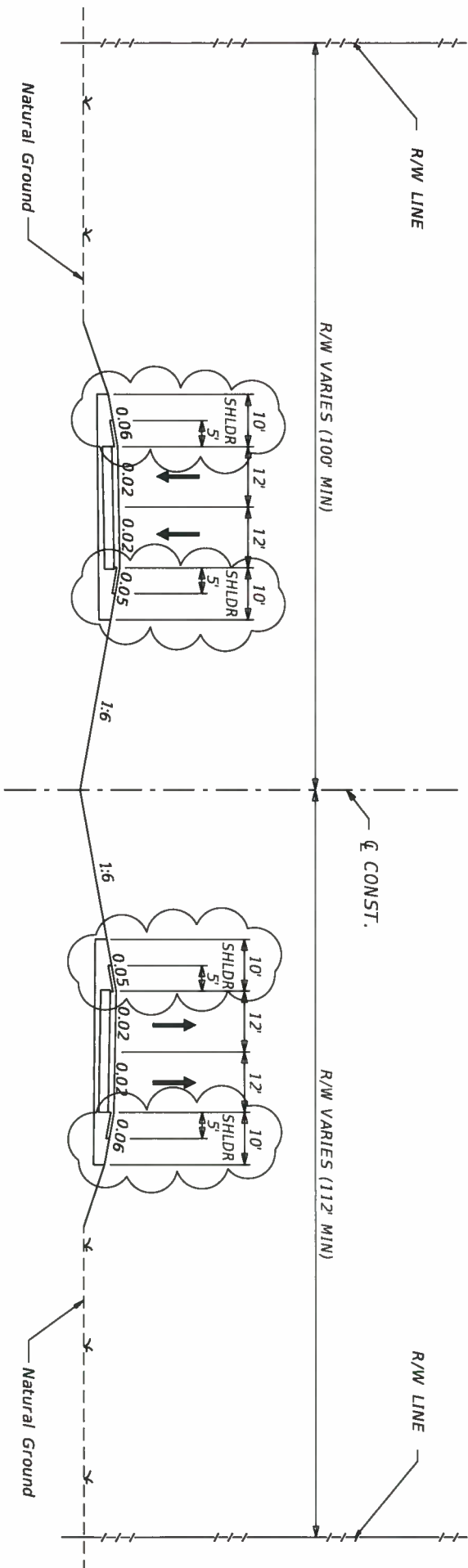
PROJECT IDENTIFICATION

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

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



DESIGN SPEED = 40 MPH
WORLD DRIVE ROADWAY SECTION

SHEET 1A-25 R1

OSCEOLA COUNTY CONCURRENCE

FDOT CONCURRENCE

FHWA CONCURRENCE

NO 67440
APPROVED BY

STATE OF FLORIDA

VACILIOS G. LIATSOS
Professional Engineer
FL 32801
222-0353
NO 8115

FRANK RAYMOND, P.E.
Director of Public Works

Date

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

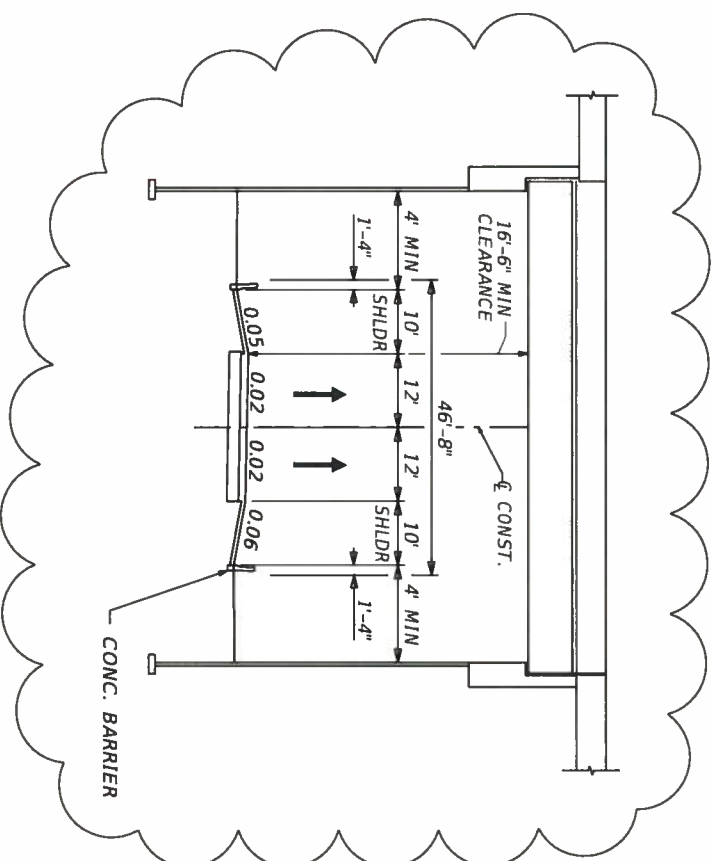
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PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION



DESIGN SPEED = 40 MPH

WORLD DRIVE WESTBOUND SECTION UNDER RAMP C3_WD

SHEET 1A-25A R1

OSCEOLA COUNTY CONCURRENCE

FDOT CONCURRENCE

FHWA CONCURRENCE

FRANK RAYMOND, P.E.
Director of Public Works

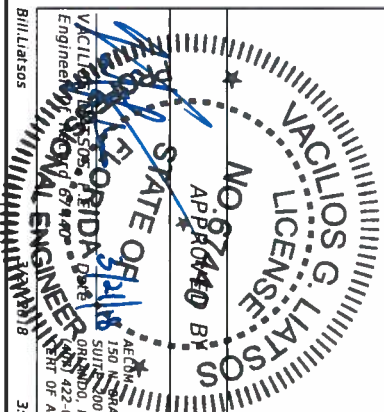
MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

Bill Liatsos

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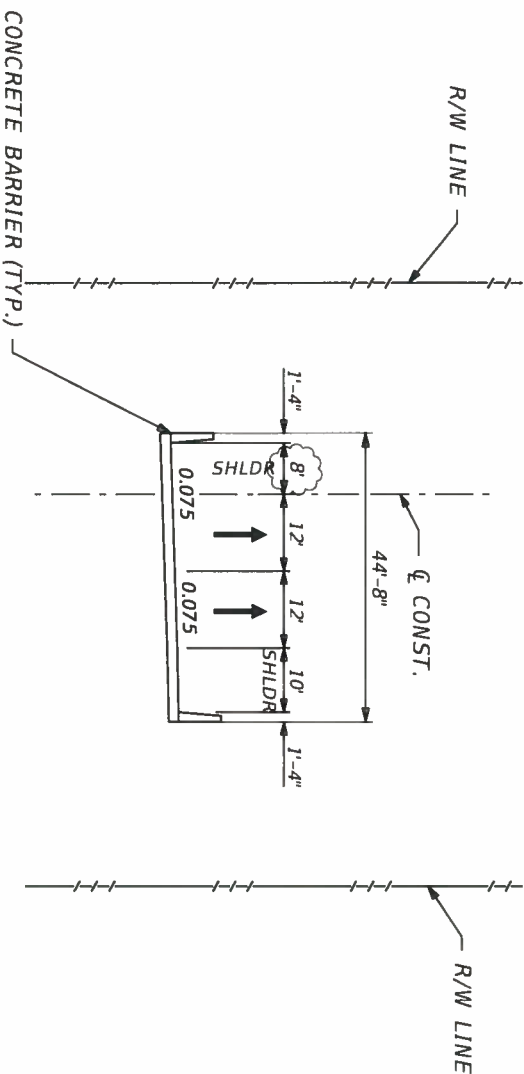
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PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION



DESIGN SPEED = 50 MPH
SR 417 SOUTHBOUND BRIDGE SECTION

SHEET 1A-27 RI

FDOT CONCURRENCE

FHWA CONCURRENCE

<p>STATE OF FLORIDA VACILIOS G. LIATOS Engineer of Road NO. 67440 * APPROVED BY</p>	<p>AECOM 150 N. ORANGE AVE. SUITE 200 ORLANDO, FL 32801 (407) 422-0353 CERT OF AUTH NO 8115</p>	<p>MARIO BIZZIO, P.E. FDOT District Design Engineer</p>	<p>Date</p>	<p>FHWA Transportation Engineer</p>	<p>Date</p>
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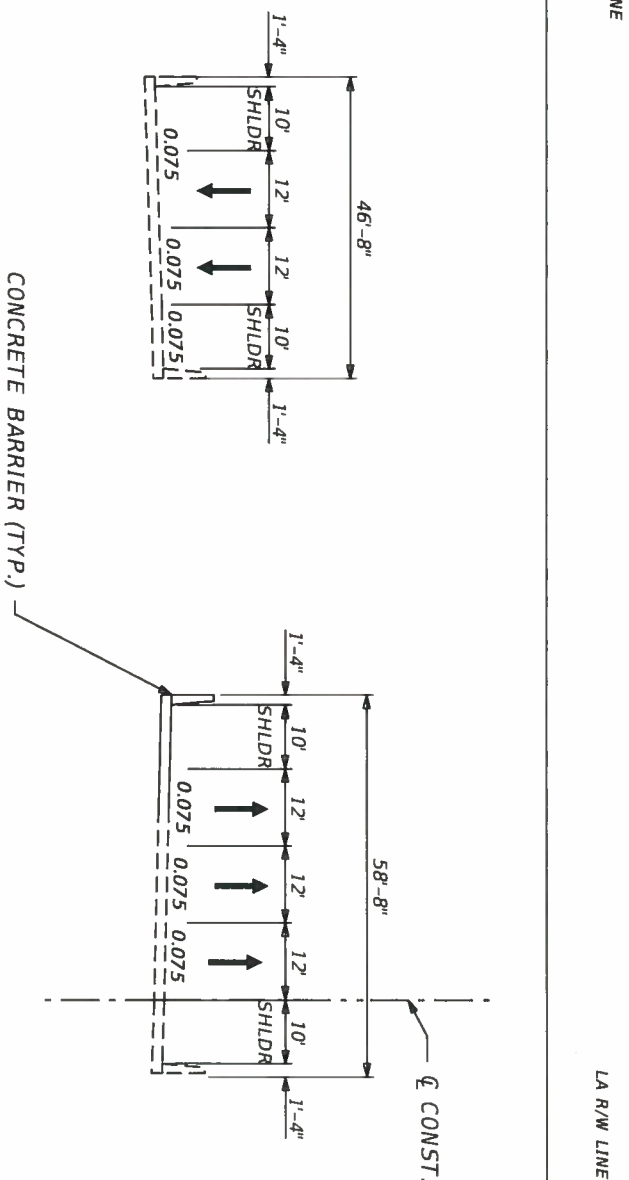
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SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION



CONCRETE BARRIER (TYP.)

DESIGN SPEED = 50 MPH

SR 417 NORTHBOUND BRIDGE WIDENING SECTION

FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1A-29 RI

STATE OF

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150 N. ORANGE AVE.
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ORLANDO, FL 32801
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CERT OF AUTH NO 8115

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

NO. 67440

*APPROVED BY

VACILLOS G. LIATISOS
LICENSE

VACILLOS G. LIATISOS
Engineer of Roadway
Professional Engineer
No. 67440

Bill Liatisos

3:43:41 PM

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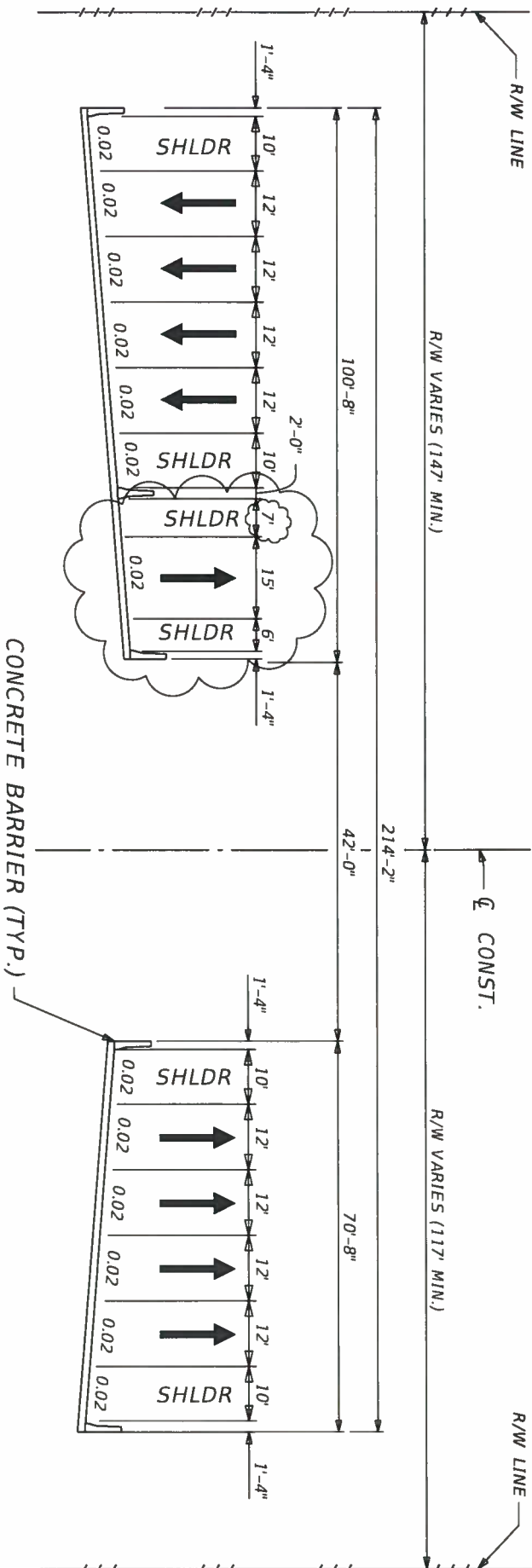
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PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION



DESIGN SPEED = 45 MPH
OSCEOLA PARKWAY BRIDGE OVER SR 400 (1-4)

SHEET 1A-39 RI

OSCEOLA COUNTY CONCURRENCE

FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1A-39 RI

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1500 N. ORANGE AVE.
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ORLANDO, FL 32801
Tel: 407.222-0353
Fax: 407.222-0353
Professional Engineer License No. 8115

FRANK RAYMOND, P.E.
Director of Public Works

Date

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

Bill Liatsos

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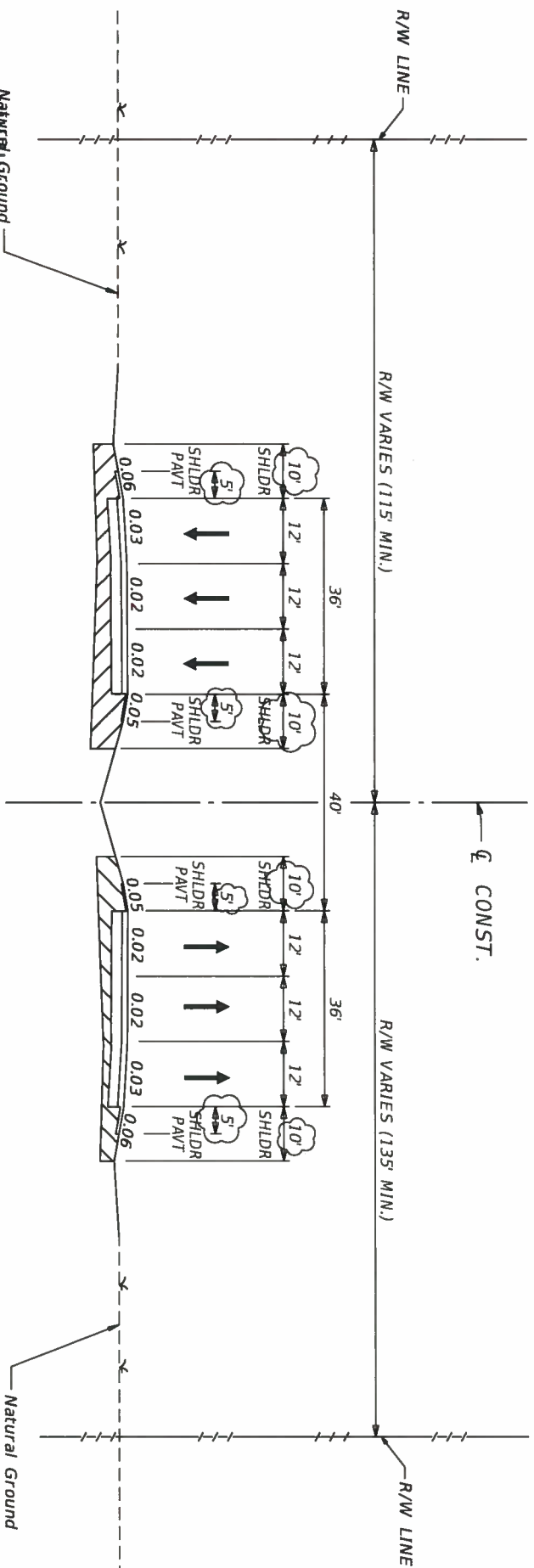
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PROPOSED ROADWAY TYPICAL SECTION



DESIGN SPEED = 45 MPH
OSCEOLA PARKWAY ROADWAY SECTION (WEST OF SR 400)

SHEET 1A-40 R1

OSCEOLA COUNTY CONCURRENCE

FDOT CONCURRENCE

FHWA CONCURRENCE

SHEET 1A-40 R1

NO. 67449
APPROVED BY

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LICENSE

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TALLAHASSEE, FL 32301

VACILIOS G. LIATOSOS
Professional Engineer
No. 67449
Exp. 07/22/05

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Director of Public Works

Date

MARIO BIZZIO, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

Bill Liatosos

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