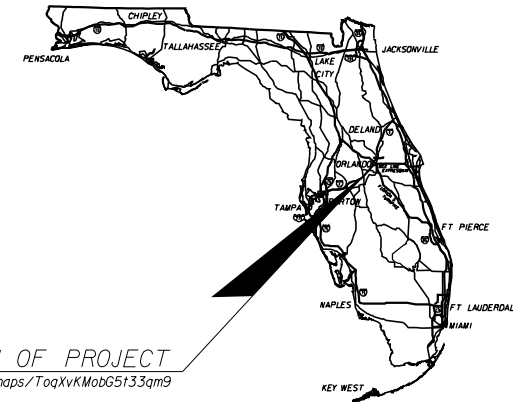# BOARD OF OSCEOLA COUNTY COMMISSIONERS
OSCEOLA COUNTY, FLORIDA
ENGINEERING DEPARTMENT

TYPICAL SECTION PACKAGE FOR

OSCEOLA COUNTY PROJECT NO. PS-20-11842-DG
FINANCIAL PROJECT ID 448781-1-22-01
OLD LAKE WILSON ROAD
PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY
FROM OSCEOLA POLK LINE ROAD (C.R. 532) TO SINCLAIR ROAD

LOCATION OF PROJECT
https://goo.gl/maps/ToqXvKMobG5t33qm9

PROJECT LOCATION URL:
https://owpbstandardmap.fdot.gov/?marker=-81.590634310768547.2C28.2597
262986976937.2C7.2C7.2C7.2C&markertemplate=7.7B7.22title7.227.3A7.22447
3877.227.2C7.22longitude7.227.3A-81.590634310768547.2C7.22latitude7.227.
3A28.2597262986976937.2C7.22isIncludeShareUrl7.227.3Atrue7.7D&level=14

PROJECT DESCRIPTION: RECONSTRUCTION

PROJECT LIMITS: BEGIN C.R. 532 – END SINCLAIR ROAD

EXCEPTIONS: NONE

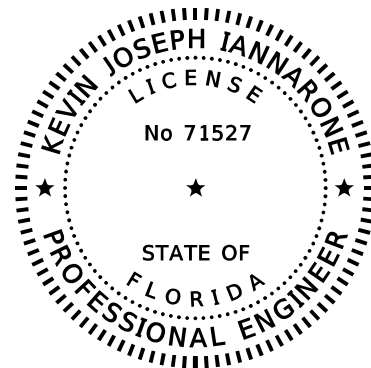BRIDGE LIMITS: BRIDGE NO. 924179 OVER I-4 (S.R. 400)

RAILROAD CROSSING: NONE

INDEX OF SHEETS

APPROVED BY:

THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

KEVIN JOSEPH IANNARONE
LICENSE
No 71527
★
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

INWOOD CONSULTING ENGINEERS, INC.
3000 DOVERA DRIVE, SUITE 200
OVIEDO, FL 32765
CERTIFICATE OF AUTHORIZATION: 7074
KEVIN JOSEPH IANNARONE, P.E. NO. 71527

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

FDOT CONCURRENCE
TYPICAL SECTION No. 5:

DocuSigned by:
Jeffrey Cicerello
E49D9D8820CD4A2...
JEFFREY CICERELLO, P.E.
FDOT District Design Engineer

06/19/2023 | 2:47 PM EDT
Date

DocuSigned by:
Jim Wood
668E396FACF9466...
JIM WOOD, P.E.
FDOT District Traffic Operations Engineer

06/19/2023 | 3:42 PM EDT
Date

DocuSigned by:
Gary Skofronick
6BEA8110F09C4ED...
GARY SKOFRONICK, P.E.
FDOT District Structures Engineer

06/21/2023 | 11:40 AM EDT
Date

OSCEOLA COUNTY CONCURRENCE:

STEVEN KANE, P.E.
Osceola County
Transportation & Transit Director
Date

GHASSAN CHOUEIRY, P.E.
Osceola County
Transportation Engineer
Date

SHEET NO.

1

jsikora
8:47:00 AM
5/12/2023

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL   ( ) C3C : SUBURBAN COMM.

( ) C2 : RURAL   ( ) C4 : URBAN GENERAL

( ) C2T : RURAL TOWN   ( ) C5 : URBAN CENTER

( ) C3R : SUBURBAN RES.   ( ) C6 : URBAN CORE

( ) N/A : L.A. FACILITY   (X) N/A : OFF–STATE HIGHWAY

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE   ( ) MAJOR COLLECTOR

( ) FREEWAY/EXPWY.   ( ) MINOR COLLECTOR

( ) PRINCIPAL ARTERIAL   ( ) LOCAL

(X) MINOR ARTERIAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

( ) STRATEGIC INTERMODAL SYSTEM

( ) STATE HIGHWAY SYSTEM

(X) OFF–STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 – FREEWAY

( ) 2 – RESTRICTIVE w/Service Roads

( ) 3 – RESTRICTIVE w/660 ft. Connection Spacing

( ) 4 – NON-RESTRICTIVE w/2640 ft. Signal Spacing

( ) 5 – RESTRICTIVE w/440 ft. Connection Spacing

( ) 6 – NON-RESTRICTIVE w/1320 ft. Signal Spacing

( ) 7 – BOTH MEDIAN TYPES

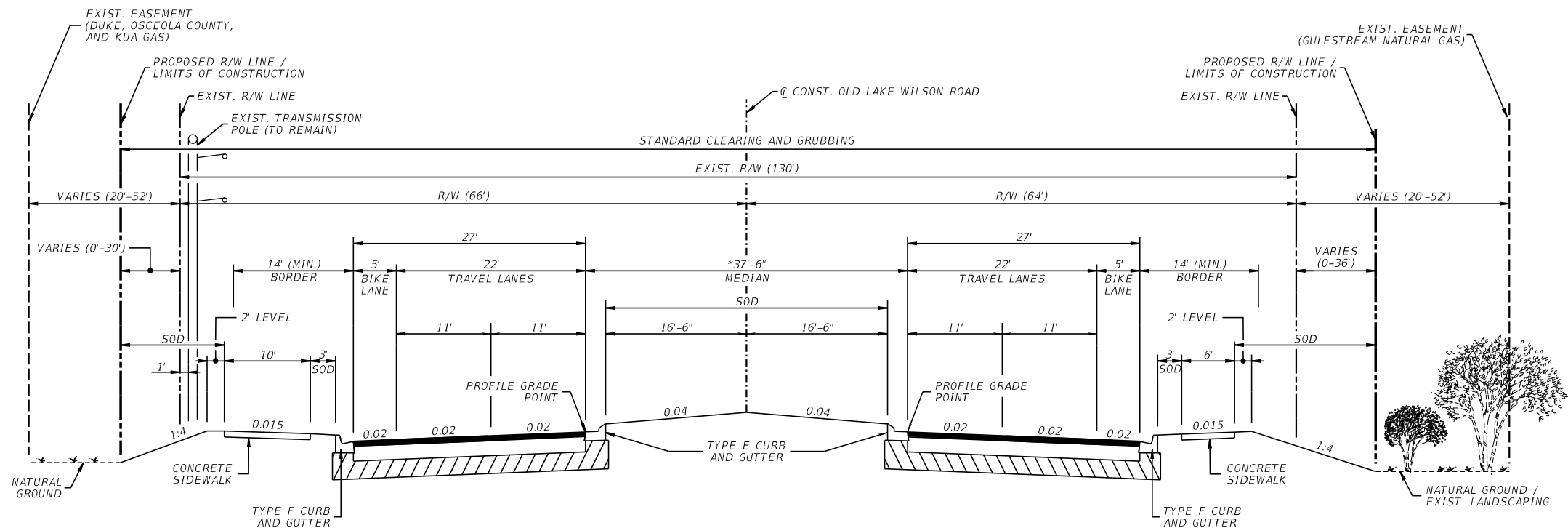(X) N/A – OFF–STATE HIGHWAY SYSTEM

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION: BIKE LANE WIDTH

TYPICAL SECTION No. 1

NOT TO SCALE

TRAFFIC DATA
(C.R. 532 TO SPINE ROAD)

CURRENT YEAR   = 2020 AADT = 21500
ESTIMATED OPENING YEAR = 2030 AADT = 26500
ESTIMATED DESIGN YEAR = 2050 AADT = 35500
K = 9% D = 63% T = 10% (24 HOUR)
DESIGN HOUR T = 5%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = N/A (OFF-STATE HIGHWAY SYSTEM)

TRAFFIC DATA
(SPINE ROAD TO FAIRFAX DRIVE)

CURRENT YEAR   = 2020 AADT = 21500
ESTIMATED OPENING YEAR = 2030 AADT = 26000
ESTIMATED DESIGN YEAR = 2050 AADT = 33500
K = 9% D = 63% T = 7.5% (24 HOUR)
DESIGN HOUR T = 3.75%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = N/A (OFF-STATE HIGHWAY SYSTEM)

TRAFFIC DATA
(FAIRFAX DRIVE TO SINCLAIR ROAD)

CURRENT YEAR   = 2020 AADT = 21500
ESTIMATED OPENING YEAR = 2030 AADT = 26000
ESTIMATED DESIGN YEAR = 2050 AADT = 34500
K = 9% D = 63% T = 7.5% (24 HOUR)
DESIGN HOUR T = 3.75%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = N/A (OFF-STATE HIGHWAY SYSTEM)

OLD LAKE WILSON ROAD

STA. 103+04.26 TO STA. 114+96.00 (NB & SB)
STA. 116+18.00 TO STA. 134+50.00 (NB & SB)
STA. 138+50.00 TO STA. 169+02.58 (NB & SB)
STA. 170+15.35 TO STA. 187+08.43 (NB)
STA. 170+15.35 TO STA. 185+94.31 (SB)
STA. 196+32.16 TO STA. 232+87.80 (NB)
STA. 202+99.95 TO STA. 232+87.80 (SB)

* MEDIAN WIDTH = 31'-6" FROM STA. 103+04.26 TO STA. 109+44.44

SHEET NO.

2

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY	(X)	N/A : OFF-STATE HIGHWAY

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
(X)	MINOR ARTERIAL		

HIGHWAY SYSTEM

( )   NATIONAL HIGHWAY SYSTEM
( )   STRATEGIC INTERMODAL SYSTEM
( )   STATE HIGHWAY SYSTEM
(X)   OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( )   1 - FREEWAY
( )   2 - RESTRICTIVE w/Service Roads
( )   3 - RESTRICTIVE w/660 ft. Connection Spacing
( )   4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( )   5 - RESTRICTIVE w/440 ft. Connection Spacing
( )   6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
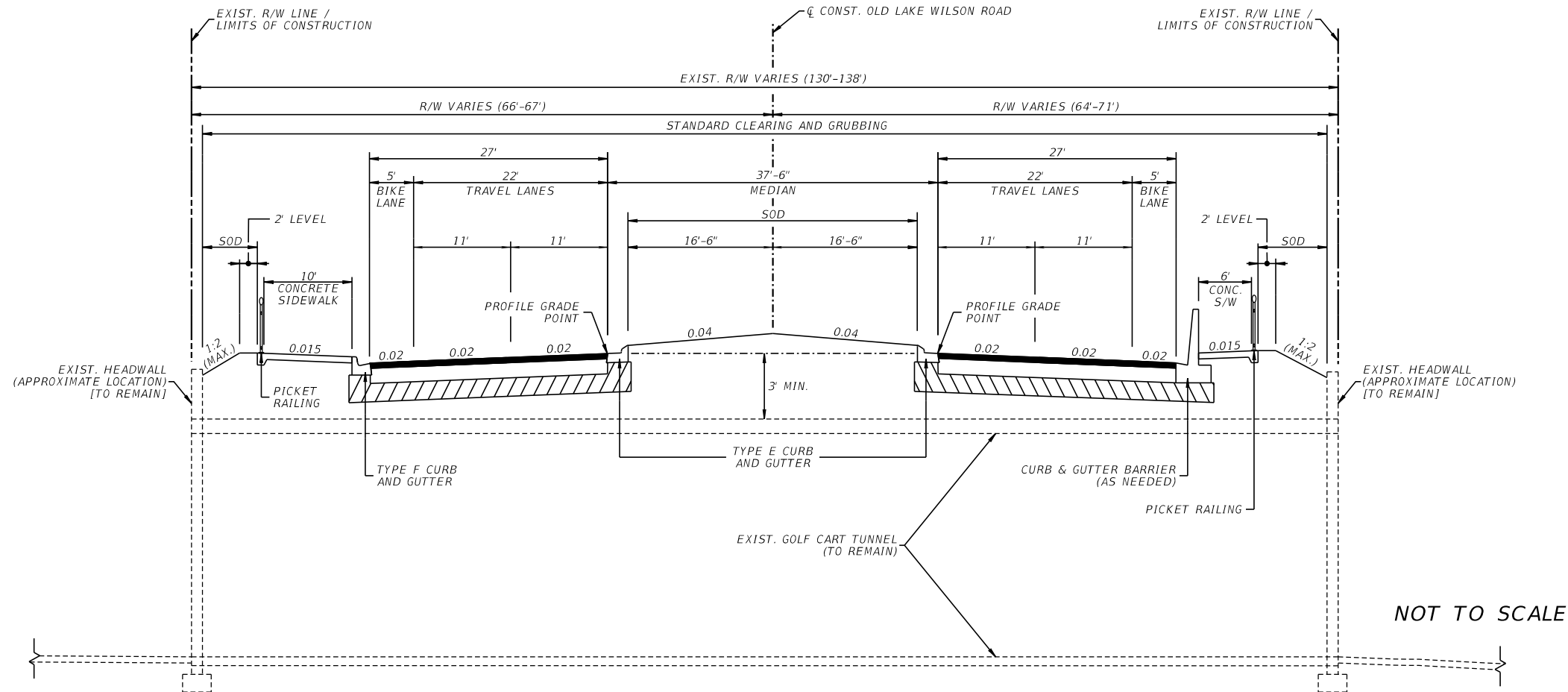( )   7 - BOTH MEDIAN TYPES
(X)   N/A - OFF-STATE HIGHWAY SYSTEM

CRITERIA

(X)   NEW CONSTRUCTION / RECONSTRUCTION
( )   RESURFACING (LA FACILITIES)
( )   RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION: BIKE LANE WIDTH
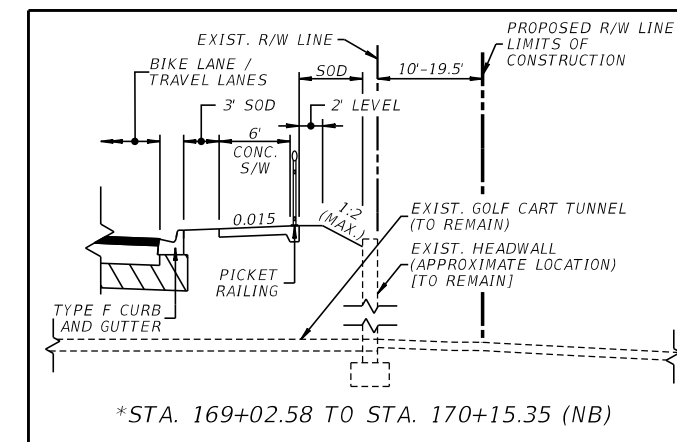
TYPICAL SECTION No. 2

NOT TO SCALE

TRAFFIC DATA
(C.R. 532 TO SPINE ROAD)

CURRENT YEAR   = 2020 AADT = 21500
ESTIMATED OPENING YEAR = 2030 AADT = 26500
ESTIMATED DESIGN YEAR = 2050 AADT = 35500
K = 9% D = 63% T = 10% (24 HOUR)
DESIGN HOUR T = 5%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = N/A (OFF-STATE HIGHWAY SYSTEM)

TRAFFIC DATA
(SPINE ROAD TO FAIRFAX DRIVE)

CURRENT YEAR   = 2020 AADT = 21500
ESTIMATED OPENING YEAR = 2030 AADT = 26000
ESTIMATED DESIGN YEAR = 2050 AADT = 33500
K = 9% D = 63% T = 7.5% (24 HOUR)
DESIGN HOUR T = 3.75%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = N/A (OFF-STATE HIGHWAY SYSTEM)

OLD LAKE WILSON ROAD
OVER GOLF CART TUNNELS

STA. 114+96.00 TO STA. 116+18.00 (NB & SB)
*STA. 169+02.58 TO STA. 170+15.35 (NB & SB)

*STA. 169+02.58 TO STA. 170+15.35 (NB)

SHEET NO.

3

5/12/2023   8:47:00 AM

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL ( ) C3C : SUBURBAN COMM.

( ) C2 : RURAL ( ) C4 : URBAN GENERAL

( ) C2T : RURAL TOWN ( ) C5 : URBAN CENTER

( ) C3R : SUBURBAN RES. ( ) C6 : URBAN CORE

( ) N/A : L.A. FACILITY (X) N/A : OFF-STATE HIGHWAY

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE ( ) MAJOR COLLECTOR

( ) FREEWAY/EXPWY. ( ) MINOR COLLECTOR

( ) PRINCIPAL ARTERIAL ( ) LOCAL

(X) MINOR ARTERIAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

( ) STRATEGIC INTERMODAL SYSTEM

( ) STATE HIGHWAY SYSTEM

(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY

( ) 2 - RESTRICTIVE w/Service Roads

( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing

( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing

( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

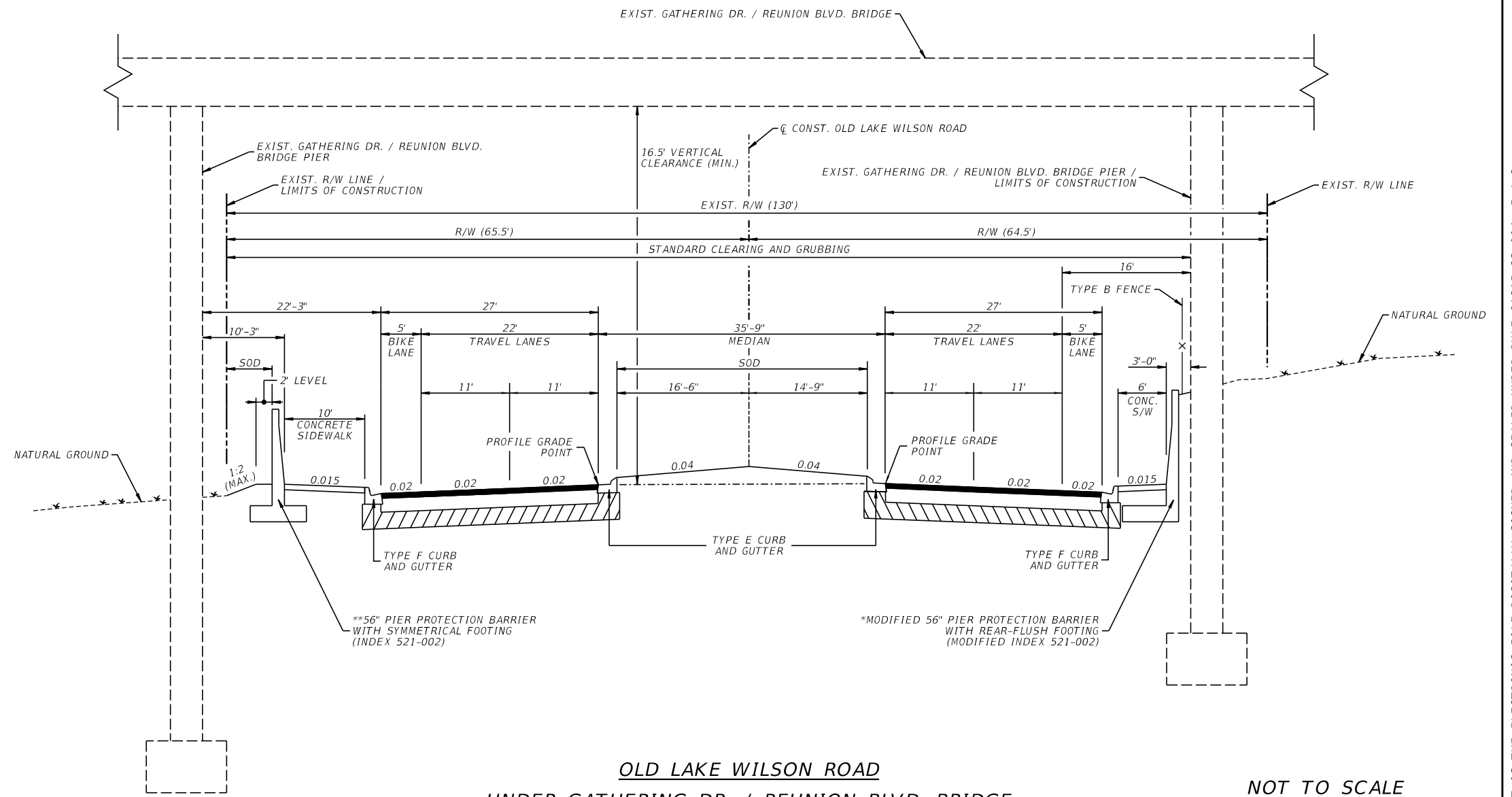( ) 7 - BOTH MEDIAN TYPES

(X) N/A - OFF-STATE HIGHWAY SYSTEM

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION: BIKE LANE WIDTH

TRAFFIC DATA
(C.R. 532 TO SPINE ROAD)

CURRENT YEAR = 2020 AADT = 21500
ESTIMATED OPENING YEAR = 2030 AADT = 26500
ESTIMATED DESIGN YEAR = 2050 AADT = 35500
K = 9% D = 63% T = 10% (24 HOUR)
DESIGN HOUR T = 5%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = N/A (OFF-STATE HIGHWAY SYSTEM)

TYPICAL SECTION No. 3

EXIST. GATHERING DR. / REUNION BLVD. BRIDGE

C CONST. OLD LAKE WILSON ROAD

EXIST. GATHERING DR. / REUNION BLVD. BRIDGE PIER

16.5' VERTICAL CLEARANCE (MIN.)

EXIST. GATHERING DR. / REUNION BLVD. BRIDGE PIER / LIMITS OF CONSTRUCTION

EXIST. R/W LINE / LIMITS OF CONSTRUCTION

EXIST. R/W LINE

EXIST. R/W (130')

R/W (65.5') R/W (64.5')

STANDARD CLEARING AND GRUBBING

16'

TYPE B FENCE

NATURAL GROUND

22'-3" 27' 35'-9" 27'

10'-3" 5' 22' MEDIAN 22' 5'

BIKE LANE TRAVEL LANES SOD TRAVEL LANES BIKE LANE

3'-0"

SOD 11' 11' 16'-6" 14'-9" 11' 11' 6' CONC. S/W

2' LEVEL PROFILE GRADE POINT PROFILE GRADE POINT

NATURAL GROUND

10' CONCRETE SIDEWALK

1:2 (MAX.) 0.015 0.02 0.02 0.02 0.04 0.04 0.02 0.02 0.02 0.015

TYPE F CURB AND GUTTER

TYPE E CURB AND GUTTER

TYPE F CURB AND GUTTER

**56" PIER PROTECTION BARRIER WITH SYMMETRICAL FOOTING (INDEX 521-002)

*MODIFIED 56" PIER PROTECTION BARRIER WITH REAR-FLUSH FOOTING (MODIFIED INDEX 521-002)

OLD LAKE WILSON ROAD

UNDER GATHERING DR. / REUNION BLVD. BRIDGE

STA. 134+50.00 TO STA. 138+50.00 (NB & SB)

* MODIFIED PIER PROTECTION BARRIER AND TYPE B FENCE FROM STA. 131+00.00 TO STA. 139+00.00
** PIER PROTECTION BARRIER FROM STA. 136+20.00 TO STA. 137+00.00

NOT TO SCALE

SHEET NO.

4

5/12/2023 8:47:01 AM

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL   ( ) C3C : SUBURBAN COMM.

( ) C2 : RURAL   ( ) C4 : URBAN GENERAL

( ) C2T : RURAL TOWN   ( ) C5 : URBAN CENTER

( ) C3R : SUBURBAN RES.   ( ) C6 : URBAN CORE

( ) N/A : L.A. FACILITY   (X) N/A : OFF-STATE HIGHWAY

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE   ( ) MAJOR COLLECTOR

( ) FREEWAY/EXPWY.   ( ) MINOR COLLECTOR

( ) PRINCIPAL ARTERIAL   ( ) LOCAL

(X) MINOR ARTERIAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

( ) STRATEGIC INTERMODAL SYSTEM

( ) STATE HIGHWAY SYSTEM

(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY

( ) 2 - RESTRICTIVE w/Service Roads

( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing

( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing

( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

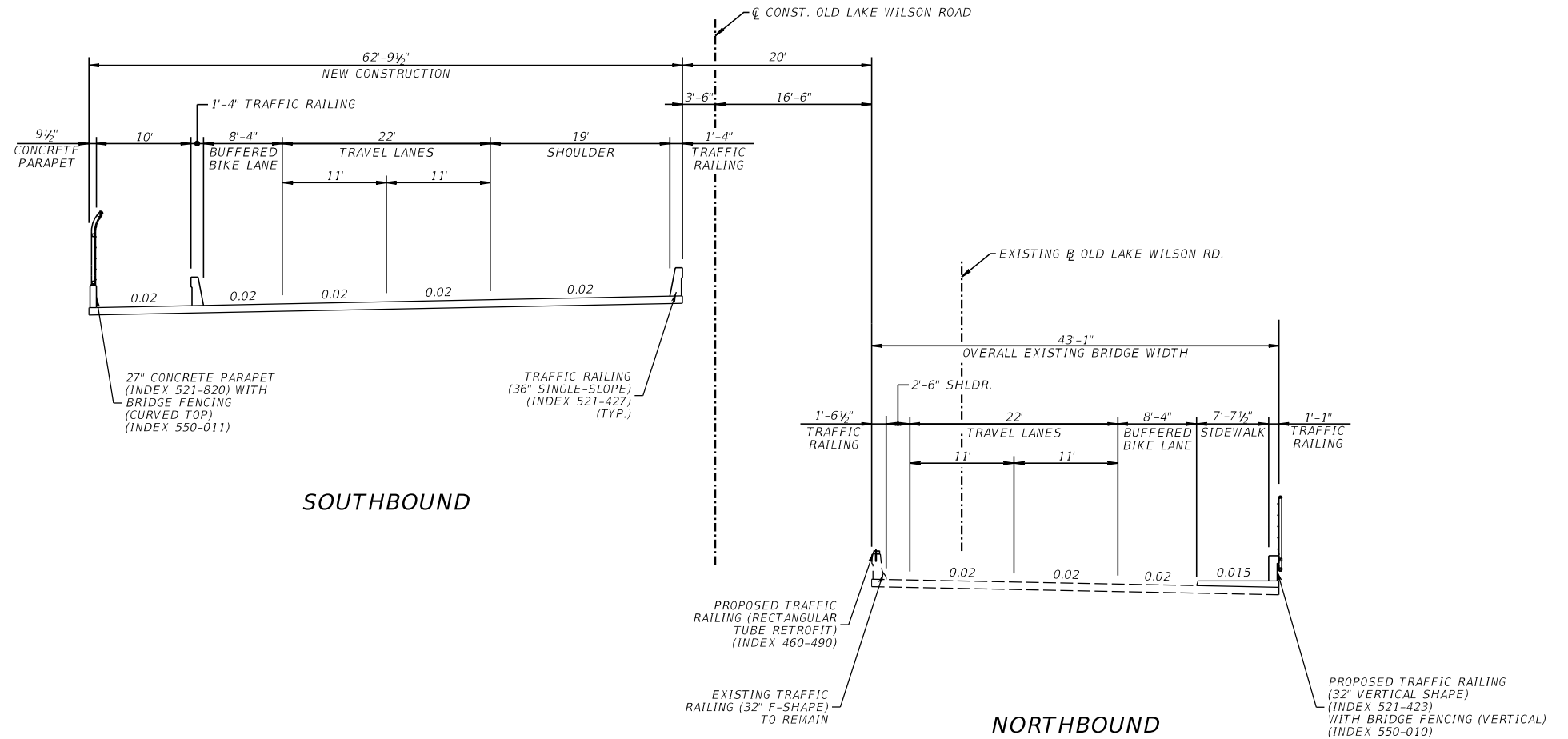( ) 7 - BOTH MEDIAN TYPES

(X) N/A - OFF-STATE HIGHWAY SYSTEM

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION: BIKE LANE WIDTH

TRAFFIC DATA
(SPINE ROAD TO FAIRFAX DRIVE)

CURRENT YEAR = 2020 AADT = 21500
ESTIMATED OPENING YEAR = 2030 AADT = 26000
ESTIMATED DESIGN YEAR = 2050 AADT = 33500
K = 9% D = 63% T = 7.5% (24 HOUR)
DESIGN HOUR T = 3.75%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = N/A (OFF-STATE HIGHWAY SYSTEM)

TYPICAL SECTION No. 4

SOUTHBOUND

NORTHBOUND

OLD LAKE WILSON ROAD
BRIDGE OVER I-4

STA. 187+08.43 TO STA. 196+32.16 (NB)
STA. 185+94.31 TO STA. 202+99.95 (SB)

NOTES:

1. STATION LIMITS SHOWN ABOVE INCLUDE APPROACH SLABS.
2. THE EXISTING (NORTHBOUND) BRIDGE WILL REQUIRE REPLACEMENT IF I-4 BTU IS CONSTRUCTED AS SHOWN IN TYPICAL SECTION No. 5.

NOT TO SCALE

SHEET NO.

5

5/12/2023   8:47:01 AM

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL   ( ) C3C : SUBURBAN COMM.

( ) C2 : RURAL   ( ) C4 : URBAN GENERAL

( ) C2T : RURAL TOWN   ( ) C5 : URBAN CENTER

( ) C3R : SUBURBAN RES.   ( ) C6 : URBAN CORE

(X) N/A : L.A. FACILITY   ( ) N/A : OFF-STATE HIGHWAY

FUNCTIONAL CLASSIFICATION

(X) INTERSTATE   ( ) MAJOR COLLECTOR

( ) FREEWAY/EXPWY.   ( ) MINOR COLLECTOR

( ) PRINCIPAL ARTERIAL   ( ) LOCAL

( ) MINOR ARTERIAL

HIGHWAY SYSTEM

(X) NATIONAL HIGHWAY SYSTEM

( ) STRATEGIC INTERMODAL SYSTEM

( ) STATE HIGHWAY SYSTEM
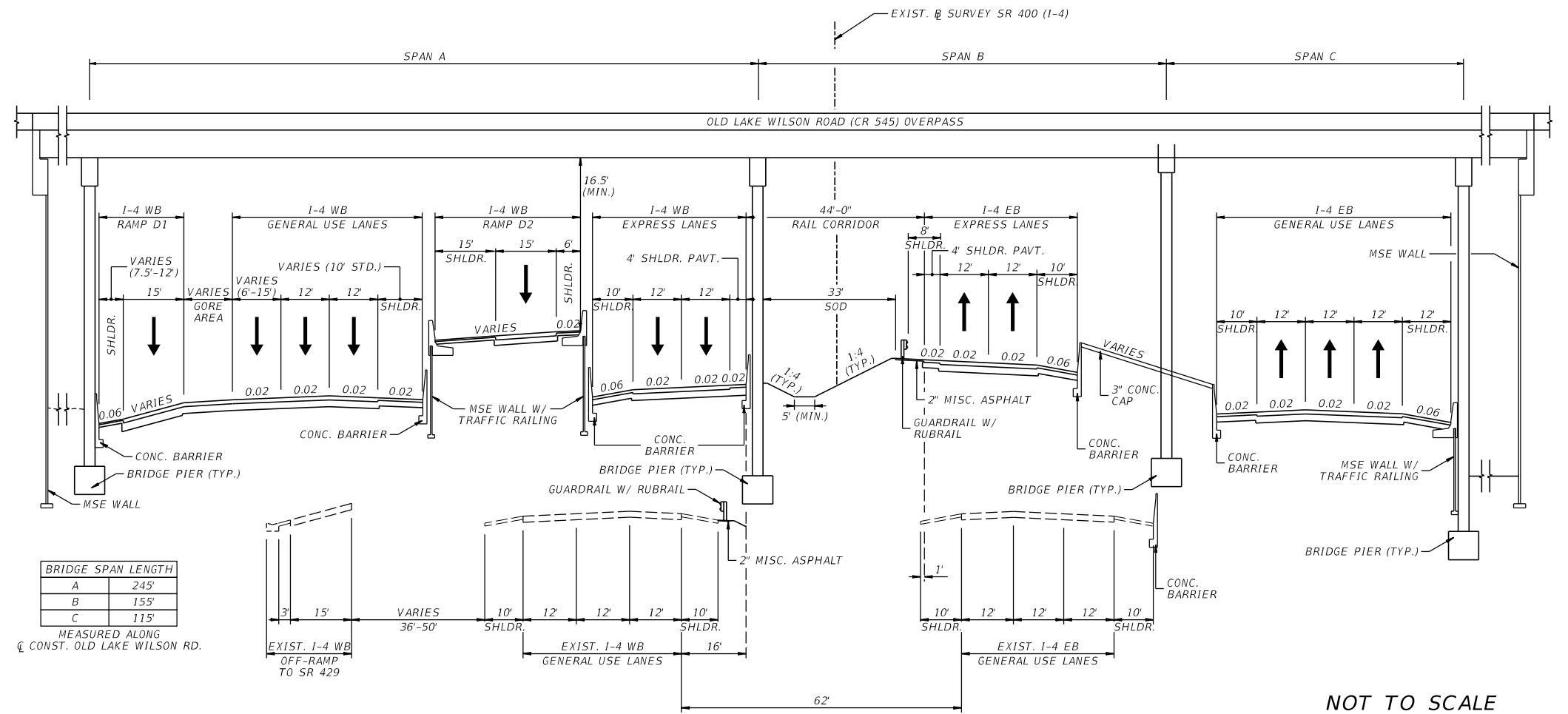
( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(X) 1 - FREEWAY

( ) 2 - RESTRICTIVE w/Service Roads

( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing

( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing

( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

( ) 7 - BOTH MEDIAN TYPES

( ) N/A - OFF-STATE HIGHWAY SYSTEM

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 5

BRIDGE SPAN LENGTH	
A	245'
B	155'
C	115'

MEASURED ALONG
℄ CONST. OLD LAKE WILSON RD.

NOT TO SCALE

SR 400 (I-4) "BEYOND THE ULTIMATE" AT OLD LAKE WILSON ROAD OVERPASS

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 161550
ESTIMATED OPENING YEAR = 2030 AADT = 176000
ESTIMATED DESIGN YEAR = 2050 AADT = 210400
K = 7% D = 55% T = 6% (24 HOUR)
DESIGN HOUR T = 3%
DESIGN SPEED = 70 MPH
POSTED SPEED = 60 MPH
TARGET SPEED = N/A (L.A. FACILITY)

SHEET NO.
6

5/12/2023   8:47:01 AM