PERMANENT RETAINING WALL SYSTEM DATA TABLES

		GEOTECHN	ICAL INFO	RMATION	Та	Table Date 1-01-11		
		Reinforced Soil & Random Backfill	Loose Fine Sand	Firm Fine Sand	Loose Clayey Fine Sand	Firm Clayey Fine Sand		
Depth Below Existing	Wall No. 1		0'-6'	6'-33'	33'-39'			
Ground Line (ft.)	Wall No. 2		0'-6'	6'-33'	33'-39'			
Effective Unit	Weight (pcf)	110 (moist weight in-place)	118	118	120	110		
Cohesic	on (psf)	0	0	0	122	122		
Internal Frid	ction Angle	<i>30°</i>	<i>30°</i>	<i>32</i> °	0	0		

NOTE

If the unit weight and/or internal friction angle of the fill proposed by the Contractor differs from that shown above, the Project Engineer will contact both the District Geotechnical Engineer and the Wall Designer for a possible redesign.

RETAINING WALL VARIABLES Table Date 1-01-11										
	Wall Settlement									
Wall No.	Long Term	Short Term	Differentia	al Settlement						
wan wo.	Settlement (in.)	Settlement (in.)	Longitudinal (%) (ft./100ft.)	Transverse (in.)						
1	2" to 3"	1" to 2"	0.50	N/A						
2	2" to 3"	1" to 2"	0.50	N/A						

NOTE

Design walls for the settlements noted in the table. Long term settlement is measured from the end of wall fill placement. Transverse differential settlement is measured from the face of wall to the end of the soil reinforcement.

	SOIL REINFORCEMENT LENGTHS FOR EXTERNAL STABILITY											Table Date 1-01-11	
). 1	Wall Height (ft.)	0-11	12	13-14	15	16-17	18	19-20	21	22-23	24	25	
Wall No.	Reinforcement Length (ft.)	8	9	10	11	12	13	14	15	16	17	18	
	Factored Bearing Resistance (psf)	1984	2295	2546	2857	3108	3419	3671	3980	4233	4543	4851	
. 2	Wall Height (ft.)	0-11	12	13-14	15	16-17	18	19-20	21	22-23	24	25	
Wall No.	Reinforcement Length (ft.)	8	9	10	11	12	13	14	15	16	17	18	
W	Factored Bearing Resistance (psf)	1984	2295	2546	2857	3108	3419	3671	3980	4233	4543	4851	

NOTES

- 1. The reinforcement strap lengths shown above are the minimum lengths required for external stability. The reinforcement lengths used in the construction of the retaining walls will be the longer of that required for external or internal stability (determined by proprietary wall companies).
- 2. The Factored Bearing Resistances shown above are the critical (lowest) values from all the load cases analyzed using LRFD methodology.

NOTES:

- 1. Concrete facing panel surfaces treatment will be a fluted, trapezoid, V-groove, fractured rib $\frac{3}{4}$ " on $1\frac{1}{2}$ " centers similar to Burke Form Liner, Pattern No. BG312 (Waterfall).
- 2. If required, the soil reinforcement and fasteners for the abutement back wall will be designed and furnished by proprietary wall company. The soil reinforcement will be designed to resist a factored horizontal load of 3.5 kips/ft of back wall width. The cost of soil reinforcement and fasteners will be included in the cost of the retaining wall system.
- 3. Applicable FDOT Wall Types for each wall location are listed below. See the Qualified Products List for approved wall systems and Design Standards Index No. 6020 for allowable wall type substitutions.

Wall No. 1 & 2 - FDOT Wall Type 2B

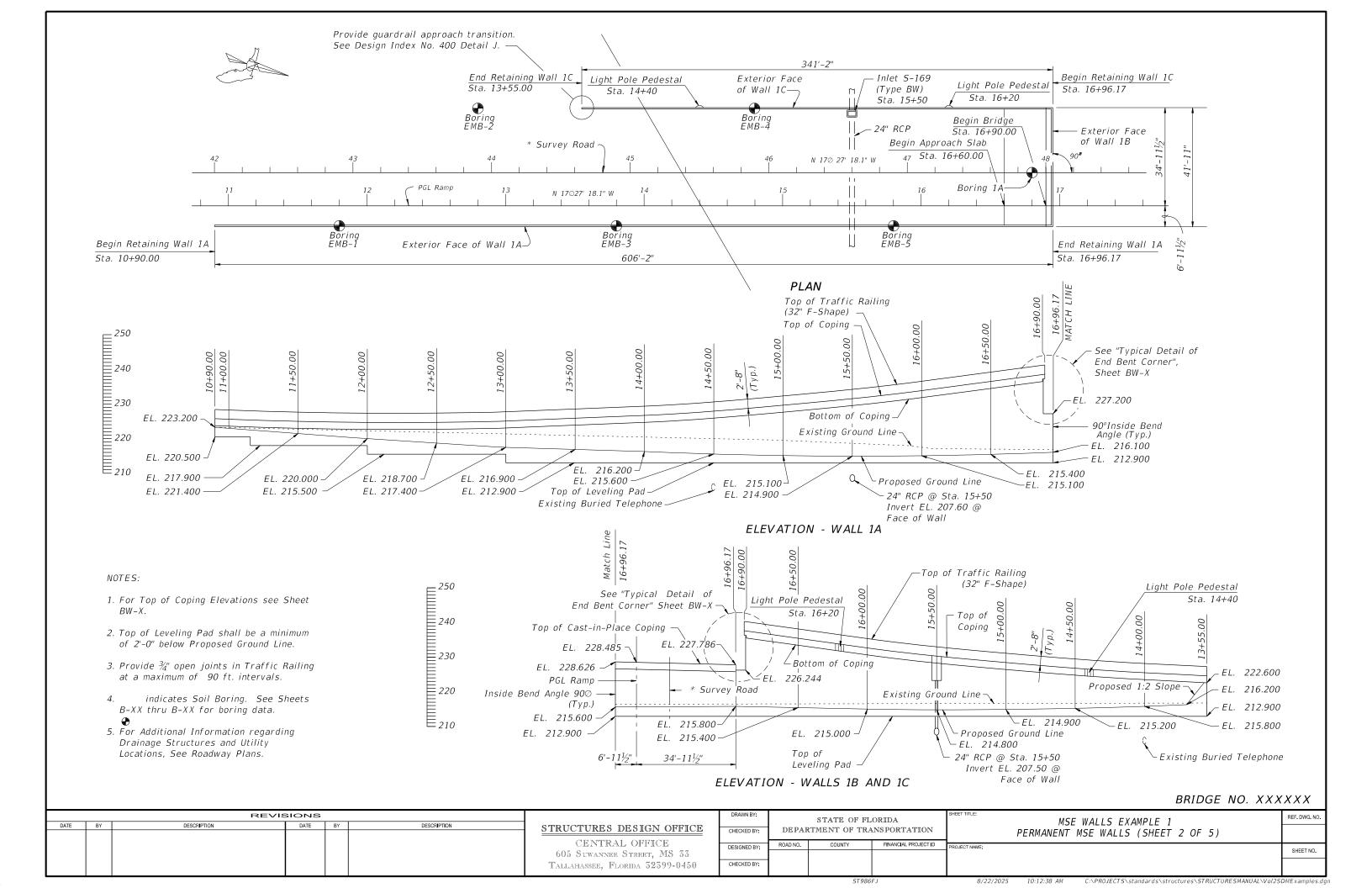
- 4. Concrete for Coping and/or Junction Slab shall be Class II (f'c = 3,400 psi) without Calcium
- 5. See Design Standards Index No. 6020 for General Notes And Details.
- 6. Longitudinal dimensions shown in the plans are measured along the exterior face of the wall . Elevations shown are to the top of coping, top of leveling pad or top of wall footing.

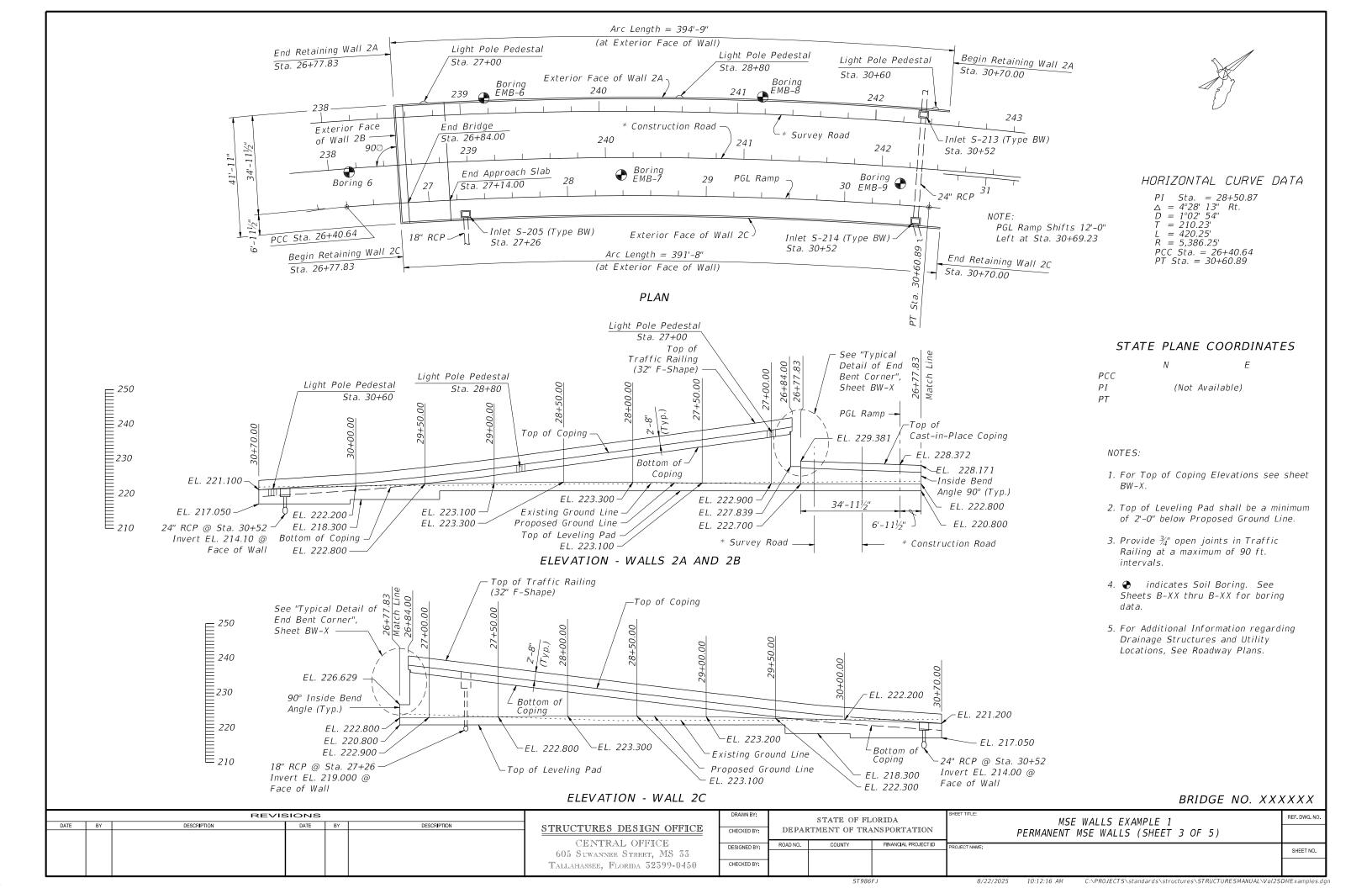
	ESTIMATED QUANTITIES									
WALL NO.	ITEM	UNIT	QUANTITY							
7	Retaining Wall System, Permanent, Excluding Barrier	SF	15,497							
1	Concrete Traffic Railing With Junction Slab (32" F-Shape)	LF	934							
2	Retaining Wall System, Permanent, Excluding Barrier	SF	7,798							
2	Concrete Traffic Railing With Junction Slab (32" F-Shape)	LF	770							

BRIDGE NO. XXXXXX

		REVI	SIONS				DRAWN BY:		STATE OF FLO	ORIDA	SHEET TITLE:	MSE WALLS EXAMPLE 1	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STRUCTURES DESIGN OFFICE	OUEOVED DV	DEDAI	RTMENT OF TRA				1
						STREET CREED BESTOTI OF THEE	CHECKED BY:	DEFAI	KINDINI OF IKA	MSFORTATION		PERMANENT MSE WALLS (SHEET 1 OF 5)	1
			1			CENTRAL OFFICE	DEGIGNED DV	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	BDG (FOT HAME		
			1			605 SUWANNEE STREET, MS 33	DESIGNED BY:				PROJECT NAME:		SHEET NO.
			l			· · · · · · · · · · · · · · · · · · ·		1					
			1			Tallahassee, Florida 32399-0450	CHECKED BY:						1

36FJ 8/19/2025 8:47:48 AM C:\PROJECTS\standards\structures\STRUCTURESMANUAL\Vol2SDMExamp.





WALL No. 1A

WALL No. 2A

PGL Ramp Station	Exposed Face of Wall 1A Offset from PGL Ramp (ft.)	Top of Coping Elevation @ Wall 1A (ft.)
10+90.00	6.958	225.647
11+00.00	6.958	225.486
11+25.00	6.958	225.139
11+50.00	6.958	224.872
11+75.00	6.958	224.685
12+00.00	6.958	224.578
12+25.00	6.958	224.551
12+50.00	6.958	224.604
12+75.00	6.958	224.737
13+00.00	6.958	224.950
13+25.00	6.958	225.243
13+50.00	6.958	225.616
13+75.00	6.958	226.069
14+00.00	6.958	226.603
14+25.00	6.958	227.216
14+50.00	6.958	227.909
14+75.00	6.958	228.683
15+00.00	6.958	229.536
15+25.00	6.958	230.470
15+50.00	6.958	231.483
15+75.00	6.958	232.577
16+00.00	6.958	233.750
16+25.00	6.958	235.004
16+50.00	6.958	236.323
16+75.00	6.958	237.648
16+90.00	6.958	238.477
16+93.50	6.958	-

	Exposed Face of Wall 2A Offset from	Top of Copir Elevation
PGL Ramp	PGL Ramp	@ Wall 2A
Station	(ft.)	(ft.)
26+78.83	34.958	-
26+84.00	34.958	239.246
27+00.00	34.958	238.327
27+25.00	34.958	236.948
27+50.00	34.958	235.569
27+75.00	34.958	234.191
28+00.00	34.958	232.812
28+25.00	34.958	231.433
28+50.00	34.958	230.055
28+75.00	34.958	228.676
29+00.00	34.958	227.297
29+25.00	34.958	226.058
29+50.00	34.958	224.927
29+75.00	34.958	223.891
30+00.00	34.958	222.950
30+25.00	34.958	222.109
30+50.00	34.958	221.525
30+70.00	22.958	221.121

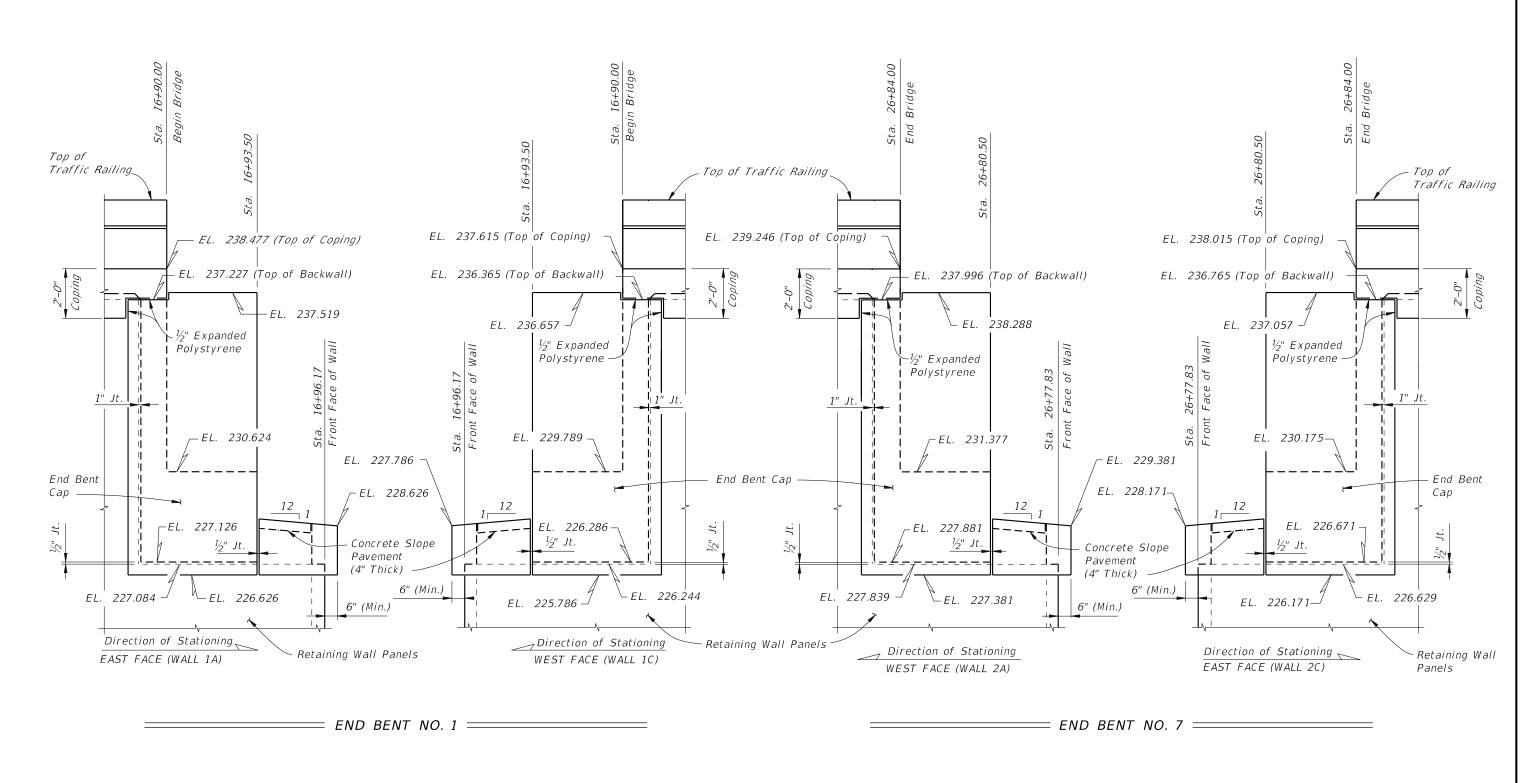
WALL No. 1C

WALL No. 2C

PGL Ramp Station	Exposed Face of Wall 1C Offset from PGL Ramp (ft.)	Top of Coping Elevation @ Wall 1C (ft.)	PGL Ramp Station	Exposed Face of Wall 2C Offset from PGL Ramp (ft.)	Top of Coping Elevation @ Wall 2C (ft.)
13+55.00 13+75.00	34.958 34.958	224.600 224.969	26+78.83 26+84.00	6.958 6.958	- 238.015
14+00.00	34.958	225.503	27+00.00	6.958	237.310
14+25.00	34.958	226.116	27+25.00	6.958	236.055
14+50.00	34.958	226.809	27+50.00	6.958	234.804
14+75.00	34.958	227.583	27+75.00	6.958	233.554
15+00.00	34.958	228.436	28+00.00	6.958	232.314
15+25.00	34.958	229.370	28+25.00	6.958	231.102
15+50.00	34.958	230.383	28+50.00	6.958	229.890
15+75.00	34.958	231.477	28+75.00	6.958	228.678
16+00.00	34.958	232.650	29+00.00	6.958	227.466
16+25.00	34.958	233.904	29+25.00	6.958	226.258
16+50.00	34.958	235.390	29+50.00	6.958	225.127
16+75.00	34.958	236.848	29+75.00	6.958	224.091
16+90.00	34.958	237.615	30+00.00	6.958	223.150
			30+25.00	6.958	222.307
			30+50.00	6.958	221.656
			30+70.00	18.958	221.201

- NOTES:
 1. Offsets are given to the exterior face of the proprietary wall.
- 2. For proposed ground elevations for all walls, see Sheets BW-X and BW-X.

		REVI	SIONS	;			DRAWN BY: STATE OF FLORIDA		SHEET TITLE:	SHEET TITLE: MSE WALLS EXAMPLE 1			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STRUCTURES DESIGN OFFICE	CHECKED BY:	DEPA		NSPORTATION			
							ONEONED D1.					PERMANENT MSE WALLS (SHEET 4 OF 5)	
						CENTRAL OFFICE	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		CHEET NO.
						605 Suwannee Street, MS 33							SHEET NO.
						Tallahassee, Florida 32399-0450	CHECKED BY:						



NOTE: ½" and 1" Joints to be Preformed Joint Filler, unless otherwise shown.

BRIDGE NO. XXXXXX

	REVISIONS					DRAWN BY:		STATE OF FL	ORIDA	SHEET TITLE:	MSE WALLS EXAMPLE 1	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STRUCTURES DESIGN OFFICE	CHECKED BY:	DEPAR	DEPARTMENT OF TRANSPORTATION		PERMANENT MSE WALLS (SHEET 5 OF 5)		
						CENTRAL OFFICE							<u> </u>
						605 SUWANNEE STREET, MS 33	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						,	CHECKED BY:	-					—
				1 1		Tallahassee, Florida 32399-0450	CHECKED BY.						1 /

ST986F1

2025 8:45:34 AM

C:\PROJECTS\standards\structures\STRUCTURESMANUAL\Vol2SDMExamples.