

CITY OF TAMPA
MOBILITY DEPARTMENT

CONTRACT PLANS

FINANCIAL PROJECT ID 443516-1-58-01
(FEDERAL FUNDS)
HILLSBOROUGH COUNTY

EL PRADO BOULEVARD COMPLETE STREETS DESIGN
FROM OMAR AVENUE TO LOIS AVENUE

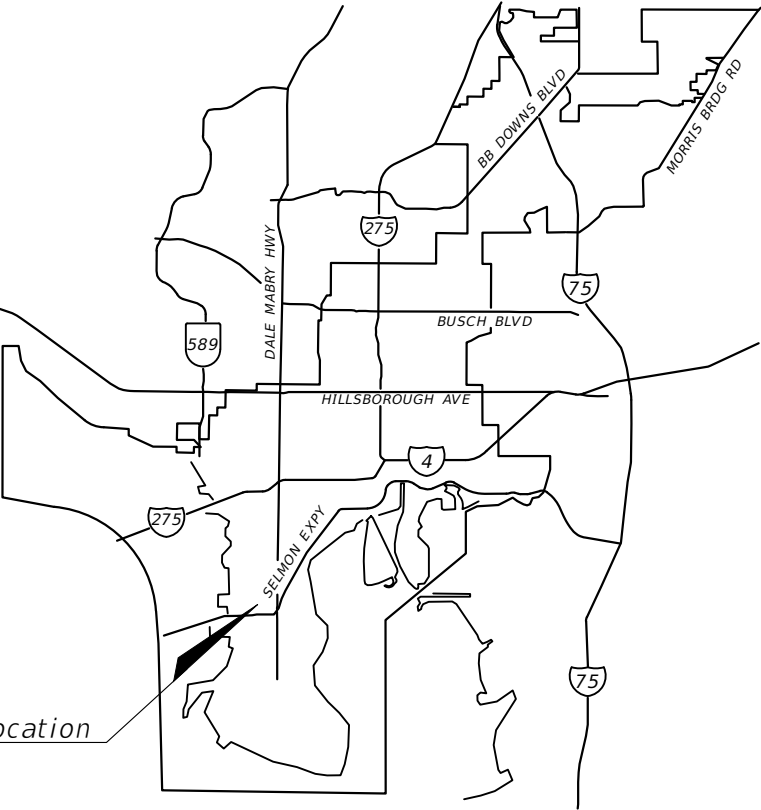
SIGNING AND PAVEMENT MARKING PLANS

INDEX OF SIGNING AND PAVEMENT
MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
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S-4	GENERAL NOTES
S-5 - S-12	SIGNING AND PAVEMENT MARKING PLAN

CITY OF TAMPA RRFB DETAILS ARE ATTACHED
TO THIS PLAN SET FOR REFERENCE.

Project Location

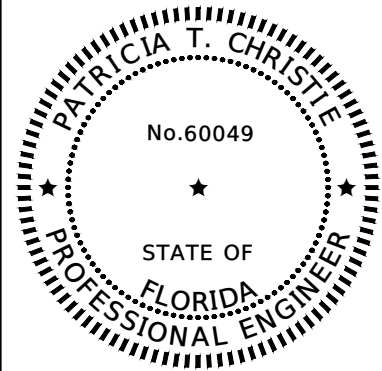


SIGNING AND PAVEMENT MARKING PLANS
ENGINEER OF RECORD:

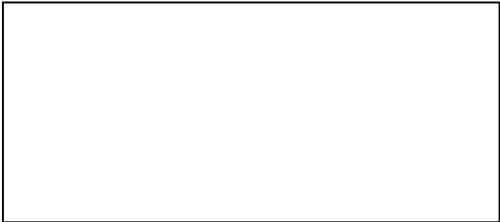
PATRICIA T. CHRISTIE, P.E.
P.E. NO.: 60049
FALLER, DAVIS & ASSOCIATES, INC.
1150 ASSEMBLY DR., SUITE 400
TAMPA, FLORIDA 33607-4874
TEL: (813) 261-5136
CONTRACT NO.: 21-D-00016 (1001930)
VENDOR NO.: F592594956001

CITY OF TAMPA PROJECT MANAGER:
JORGE UY, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
24-C-00015	24	S-1



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY



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.

FALLER, DAVIS & ASSOCIATES, INC.
1150 ASSEMBLY DR., SUITE 400
TAMPA, FLORIDA, 33607-4874
PATRICIA T. CHRISTIE, P.E. NO.: 60049

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3	TABULATION OF QUANTITIES
S-4	GENERAL NOTES
S-5 - S-12	SIGNING AND PAVEMENT MARKING PLAN

R E V I S I O N S				CITY OF TAMPA MOBILITY DEPARTMENT			SIGNATURE SHEET
DATE	DESCRIPTION	DATE	DESCRIPTION				
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				OFF_SYS	HILLSBOROUGH	443516-1-58-01	S-2

TABULATION OF QUANTITIES																				
PAY ITEM NO.	DESCRIPTION	UNIT	S-5		S-6		S-7		S-8		S-9		S-10		S-11		S-12		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF									15								15	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF									73								73	
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA									3								3	
654-2-21	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSY- SINGLE DIRECTION	AS									2								2	
654-2-22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS									1								1	
700-1-11	SINGLE POST SIGN (F&I GROUND MOUNT) (UP TO 12 SF)	AS	11						1		5		6		3		1		27	
700-1-12	SINGLE POST SIGN (F&I GROUND MOUNT) (12-20 SF)	AS	1												1				2	
700-1-60	SINGLE POST SIGN (REMOVE)	AS	9								1		9		3				22	
700-3-501	SIGN PANEL (RELOCATE) (UP TO 12 SF)	EA	5												5				10	
700-3-601	SIGN PANEL (REMOVE) (UP TO 12 SF)	EA											2						2	
700-13-15	RETROREFLECTIVE SIGN STRIP (F&I) (5')	EA	2		2						2				3		2		11	
704-1-1	TUBULAR MARKER (DURABLE) (36" WHITE POST)	EA	4		3		1		2		18								28	
705-11-1	DELINEATOR (FLEXIBLE TUBULAR)	EA	2		4		2		2		4				4		3		21	
706-1-3	RAISED PAVEMENT MARKER (TYPE B) (W/R)	EA									8		52		69		31		160	
710-12-290	PAINTED PAVEMENT MARKINGS (DURABLE PAINT) (YELLOW) (ISLAND NOSE)	SF	88		88		44		44		88		132		88		66		638	
710-90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS																	1	
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (12" FOR CROSSWALK AND ROUNDABOUT)	LF	411		114				28		268		544		149		123		1637	
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (18" FOR DIAGONALS AND CHEVRONS)	LF											285		1129		619		2033	
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (24" FOR STOP LINE AND CROSSWALK)	LF	91		23						22		91		40		16		283	
*	PAINTED PAVEMENT MARKINGS (WHITE) (DOTTED) (6") (2'-4')	GM	0.087		0.054						0.088		0.109		0.121		0.095		0.576	
*	PAINTED PAVEMENT MARKINGS (WHITE) (DOTTED) (6") (6'-10')	GM											0.022							
*	PAINTED PAVEMENT MARKINGS (WHITE) (MESSAGE) (ONLY)	EA	3										5		1				12	
*	PAINTED PAVEMENT MARKINGS (WHITE) (MESSAGE) (SHARROW)	EA									2		1							
*	PAINTED PAVEMENT MARKINGS (WHITE) (ARROW) (LEFT)	EA											6						13	
*	PAINTED PAVEMENT MARKINGS (WHITE) (ARROW) (THRU)	EA											2							
*	PAINTED PAVEMENT MARKINGS (WHITE) (ARROW) (RIGHT)	EA	3										2							
*	PAINTED PAVEMENT MARKINGS (YELLOW) (SOLID) (18" FOR DIAGONAL OR CHEVRON)	LF											98						98	
*	PAINTED PAVEMENT MARKINGS (YELLOW) (DOTTED) (6") (6'-10')	GM			0.023		0.009		0.009		0.023				0.029		0.015		0.108	
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (6")	GM	0.278		0.382		0.425		0.425		0.279		0.228		0.326		0.209		2.552	
*	PAINTED PAVEMENT MARKINGS (WHITE) (SKIP) (6") (10'-30')	GM									0.032								0.032	
*	PAINTED PAVEMENT MARKINGS (WHITE) (SKIP) (12") (3'-9')	GM									0.015		0.043		0.004				0.062	
*	PAINTED PAVEMENT MARKINGS (YELLOW) (SOLID) (6")	GM	0.161		0.179		0.199		0.199		0.176		0.176		0.172		0.127		1.389	
711-11-123	THERMOPLASTIC (STD) (WHITE) (SOLID) (12" FOR CROSSWALK AND ROUNDABOUT)	LF	411		114				28		268		544		149		123		1637	
711-11-124	THERMOPLASTIC (STD) (WHITE) (SOLID) (18" FOR DIAGONALS AND CHEVRONS)	LF											285		1129		619		2033	
711-11-125	THERMOPLASTIC (STD) (WHITE) (SOLID) (24" FOR STOP LINE AND CROSSWALK)	LF	91		23						22		91		40		16		283	
711-11-141	THERMOPLASTIC (STD) (WHITE) (DOTTED) (6") (2'-4')	GM	0.087		0.054						0.088		0.109		0.121		0.095		0.576	
	THERMOPLASTIC (STD) (WHITE) (DOTTED) (6") (6'-10')	GM											0.022							
711-11-160	THERMOPLASTIC (STD) (WHITE) (MESSAGE) (ONLY)	EA	3										5		1				12	
	THERMOPLASTIC (STD) (WHITE) (MESSAGE) (SHARROW)	EA									2		1							
711-11-170	THERMOPLASTIC (STD) (WHITE) (ARROW) (LEFT)	EA											6						13	
	THERMOPLASTIC (STD) (WHITE) (ARROW) (THRU)	EA											2							
	THERMOPLASTIC (STD) (WHITE) (ARROW) (RIGHT)	EA	3										2							
711-11-224	THERMOPLASTIC (STD) (YELLOW) (SOLID) (18" FOR DIAGONAL OR CHEVRON)	LF											98						98	
711-11-241	THERMOPLASTIC (STD) (YELLOW) (DOTTED) (6") (6'-10')	GM			0.023		0.009		0.009		0.023				0.029		0.015		0.108	
711-14-125	THERMOPLASTIC (PREFORMED) (WHITE) (SOLID) (24" FOR CROSSWALK)	LF	291		36						84		420		36		18		885	
711-14-160	THERMOPLASTIC (PREFORMED) (WHITE) (MESSAGE)	EA	6		4						4		2		7		3		26	
711-14-170	THERMOPLASTIC (PREFORMED) (WHITE) (ARROW)	EA	6		4						4		2		6		4		26	
711-16-101	THERMOPLASTIC (STD-OTHER) (WHITE) (SOLID) (6")	GM	0.278		0.382		0.425		0.425		0.279		0.228		0.326		0.209		2.552	
711-16-131	THERMOPLASTIC (STD-OTHER) (WHITE) (SKIP) (6") (10'-30')	GM									0.032								0.032	
711-16-133	THERMOPLASTIC (STD-OTHER) (WHITE) (SKIP) (12") (3'-9')	GM									0.015		0.043		0.004				0.062	
711-16-201	THERMOPLASTIC (STD-OTHER) (YELLOW) (SOLID) (6")	GM	0.161		0.179		0.199		0.199		0.176		0.176		0.172		0.127		1.389	
920-714-100	GREEN COLORED PAVEMENT MARKINGS (BIKE LANE)	SF	1320		895		275				1330		1414		2802		2718		10754	

* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE) LUMP SUM - ITEM NO. 710-90.
THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

R E V I S I O N S				PATRICIA T. CHRISTIE, P.E. P.E. LICENSE NUMBER 60049 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DR., SUITE 400 TAMPA, FLORIDA, 33607-4874	CITY OF TAMPA MOBILITY DEPARTMENT			TABULATION OF QUANTITIES	SHEET NO. S-3
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF_SYS	HILLSBOROUGH	443516-1-58-01		

SIGNING AND PAVEMENT MARKING

GENERAL NOTES:

1. ENSURE THAT ALL SIGNS OVER SIDEWALKS HAVE A VERTICAL CLEARANCE OF EIGHT FEET (8') STANDARD.
2. ALL PEDESTRIAN WARNING SIGNS, INCLUDING SUPPLEMENTAL SIGNS AND TOP PORTION OF R10-15A SIGNS, ARE TO BE FLOURESCENT YELLOW GREEN BACKGROUND.
3. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS RECOMMENDED BY THE ENGINEER.
4. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO SIGN FOUNDATIONS AS DETERMINED BY THE CONTRACTOR, HAND DIG THE FIRST FOUR FEET (4') OF THE HOLE FOR THE SIGN POST FOUNDATION.
5. MEASURE ALL CROSSWALKS FROM INSIDE TO INSIDE OF 12" STRIPES.

PAY ITEM NOTES:

654-2-21 / 654-2-22:
REMOVE SIDE PANELS FROM RRFB FLASHER HOUSINGS IN ORDER TO UNCOVER SIDE FLASHERS.

ALL RRFB'S MUST HAVE SUPPORT COLLARS WITH ROLL PINS.

FOR PEDESTRIAN SIGN PANEL, USE R10-25P. SEE DETAILS AT THE END OF PLAN SET.

FOR THE RRFB SYSTEM AT HESPERIDES STREET, USE THE CARMANAH SC3015 SYSTEM IN THE MEDIAN WITH A 50 W SOLAR PANEL AND A 35 AH BATTERY. NO SOLAR PANELS ARE NEEDED ON THE NORTH OR SOUTH INSTALLATIONS SINCE THEY ARE POWERED FROM THE MEDIAN SOLAR INSTALLATION. ALL WIRING HARNESSSES, POLE MOUNTED CABINET AND ADDITIONAL HARDWARE FOR A FULL RRFB INSTALLATION ARE INCLUDED IN THESE PAY ITEM NUMBERS.

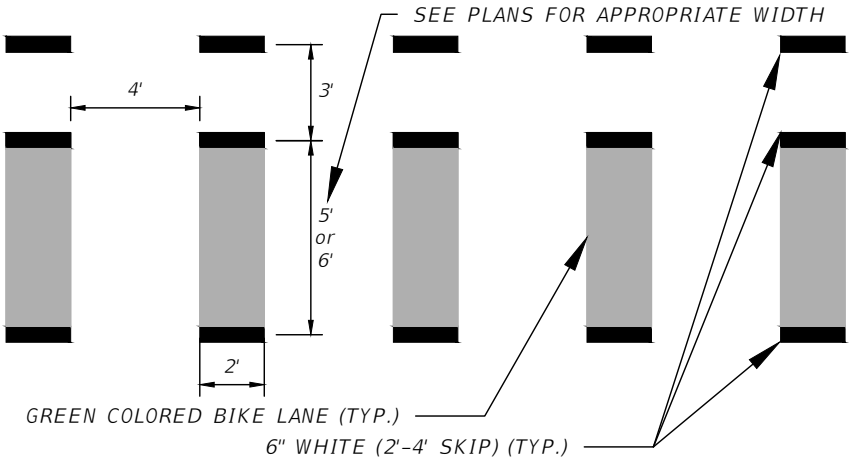
704-1-1:
TUBULAR MARKERS TO BE 48" TALL.

700-13-15:
PROVIDE RED RETROREFLECTIVE SIGN STRIPS FOR R1-1 AND R5-1 ASSEMBLIES.

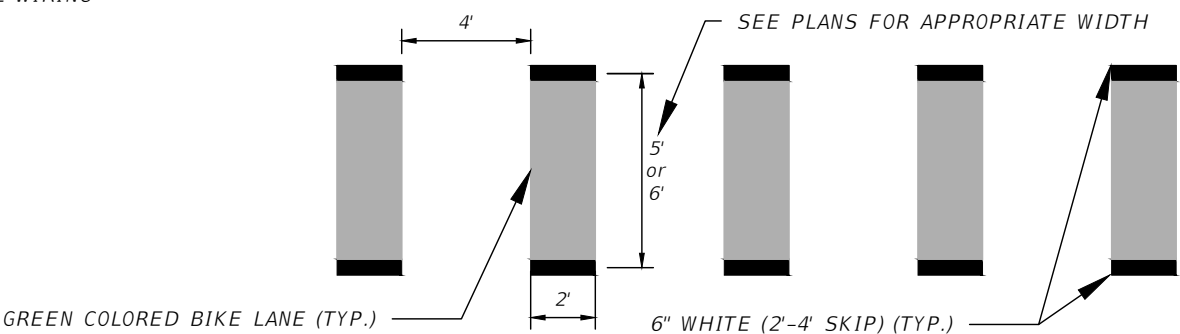
LEGEND:

PFTP = PREFORMED THERMOPLASTIC

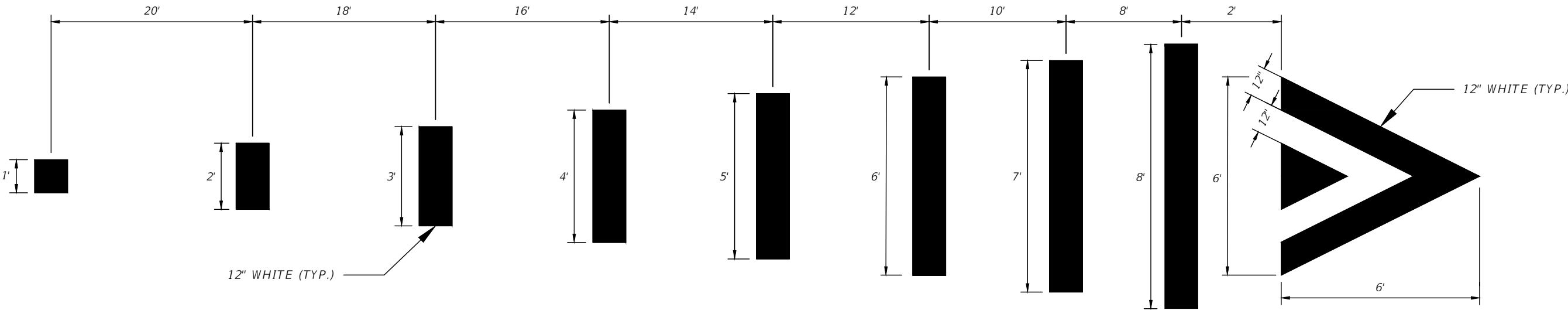
BUFFERED BIKE LANE DETAIL (TYP.)



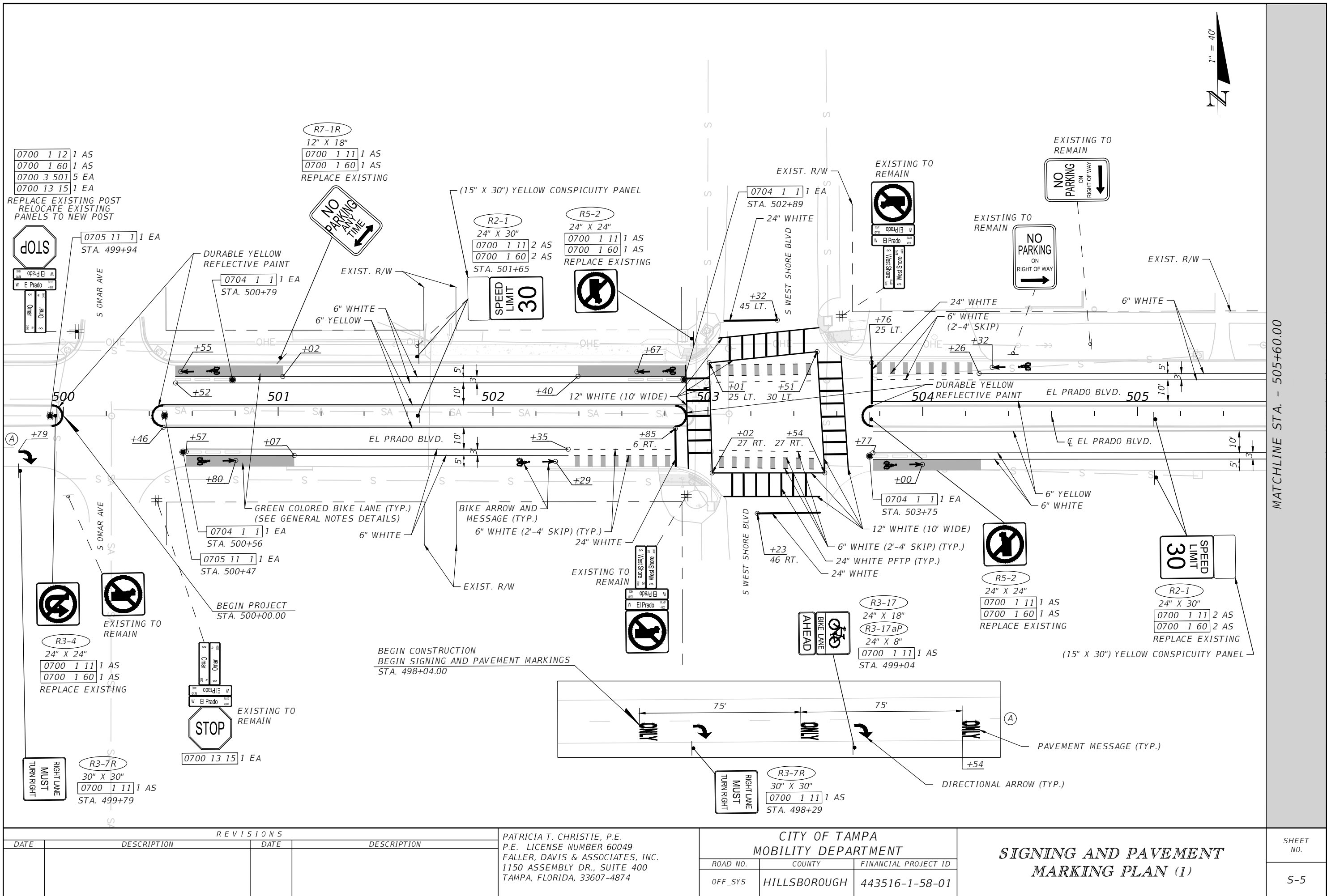
BIKE LANE DETAIL (TYP.)



SPEED TABLE PAVEMENT MARKING DETAIL (TYP.)



REVISIONS				PATRICIA T. CHRISTIE, P.E. P.E. LICENSE NUMBER 60049 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DR., SUITE 400 TAMPA, FLORIDA, 33607-4874	CITY OF TAMPA MOBILITY DEPARTMENT			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF_SYS	HILLSBOROUGH	443516-1-58-01		S-4



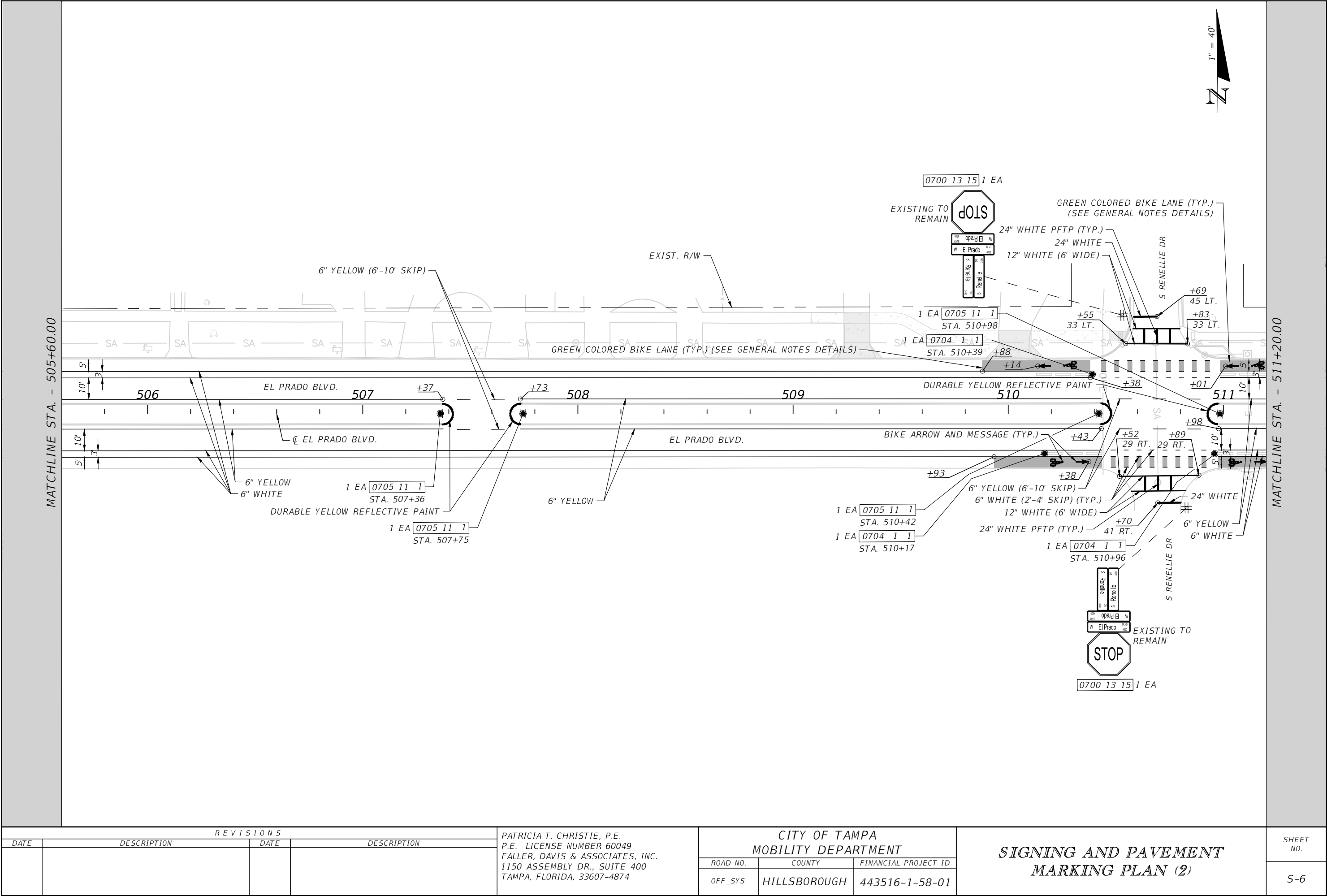
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PATRICIA T. CHRISTIE, P.E.
P.E. LICENSE NUMBER 60049
FALLER, DAVIS & ASSOCIATES, INC.
1150 ASSEMBLY DR., SUITE 400
TAMPA, FLORIDA, 33607-4874

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF_SYS	HILLSBOROUGH	443516-1-58-01

**SIGNING AND PAVEMENT
MARKING PLAN (1)**

SHEET NO.
S-5



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

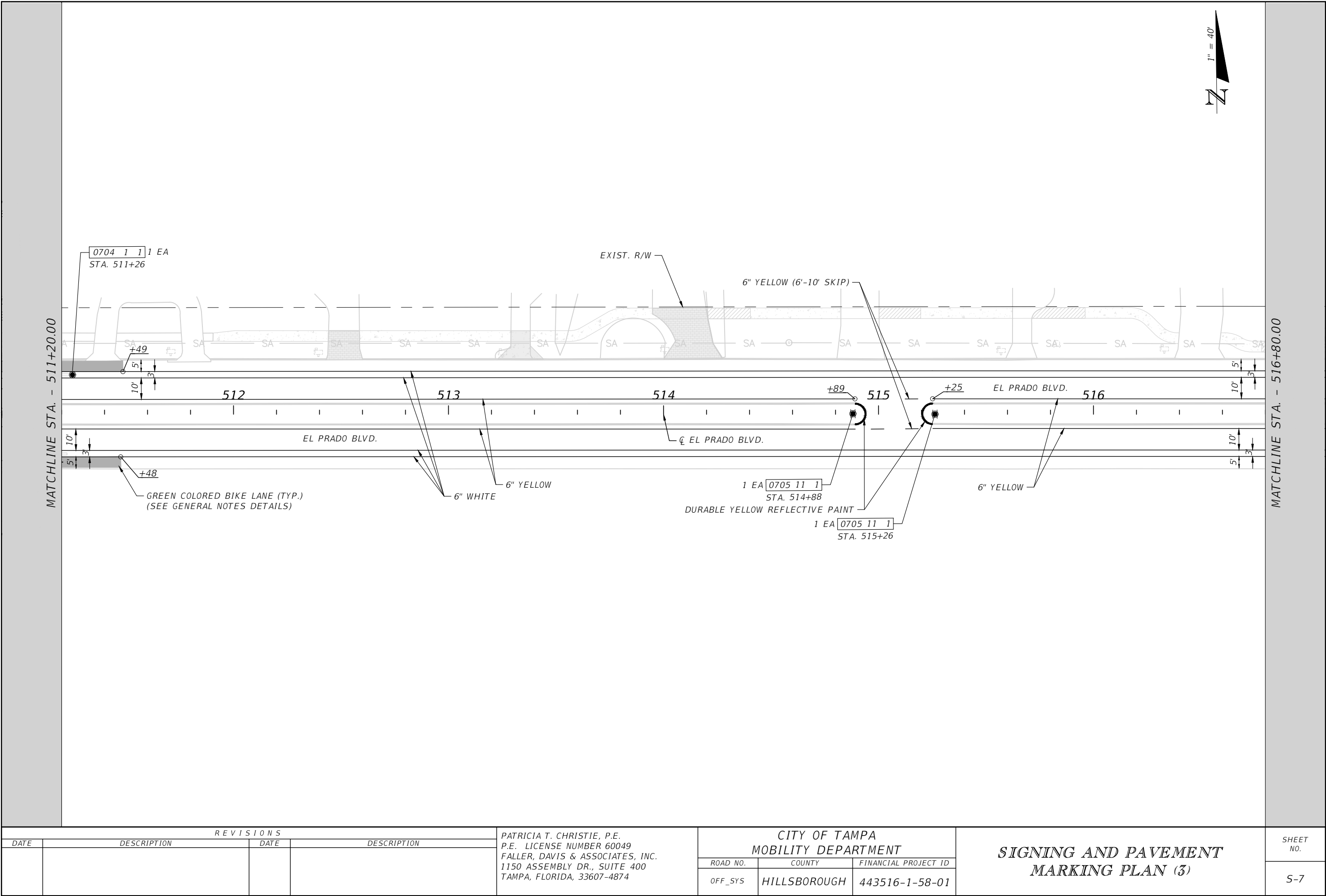
PATRICIA T. CHRISTIE, P.E.
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CITY OF TAMPA MOBILITY DEPARTMENT		
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OFF_SYS	HILLSBOROUGH	443516-1-58-01

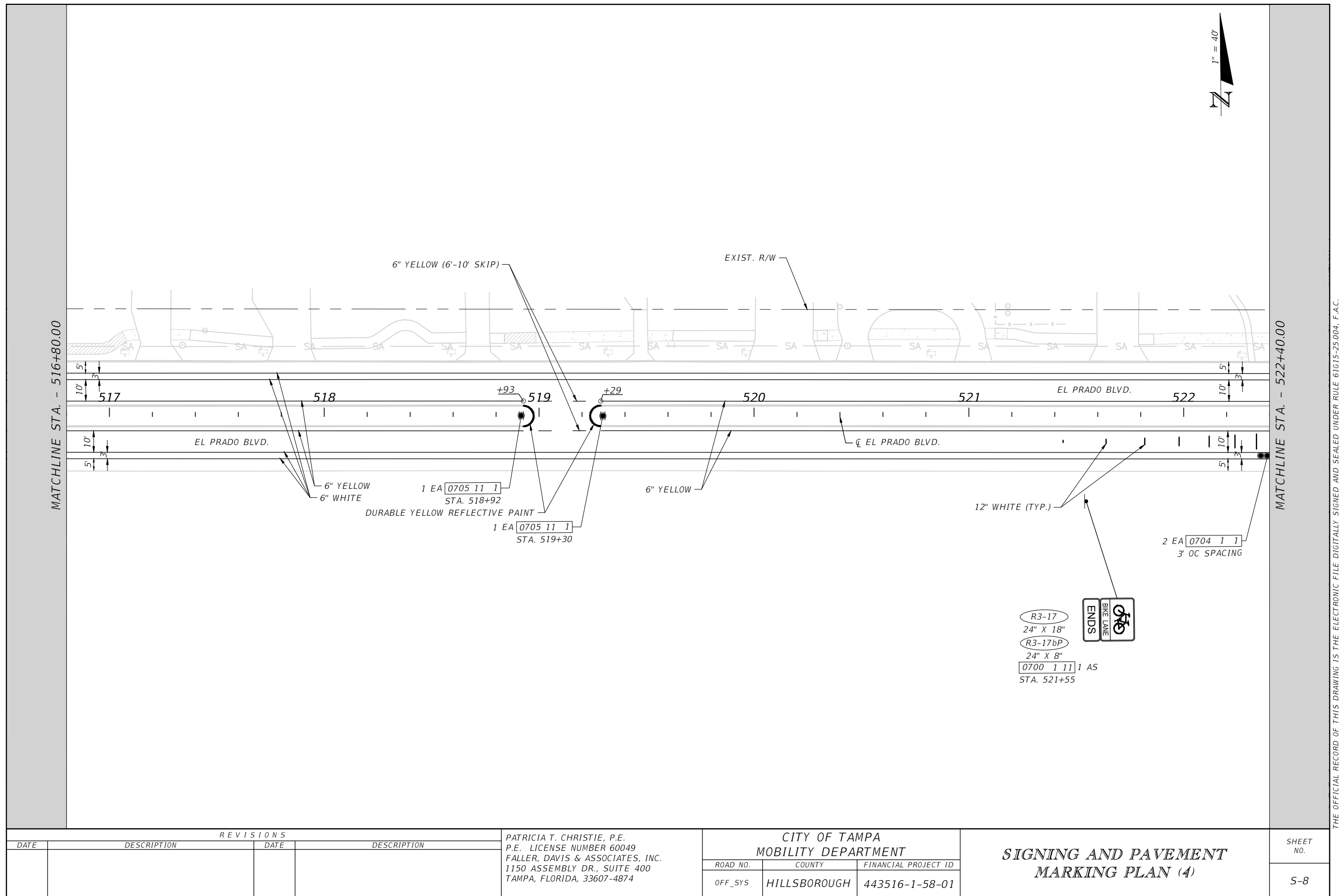
SIGNING AND PAVEMENT
MARKING PLAN (2)

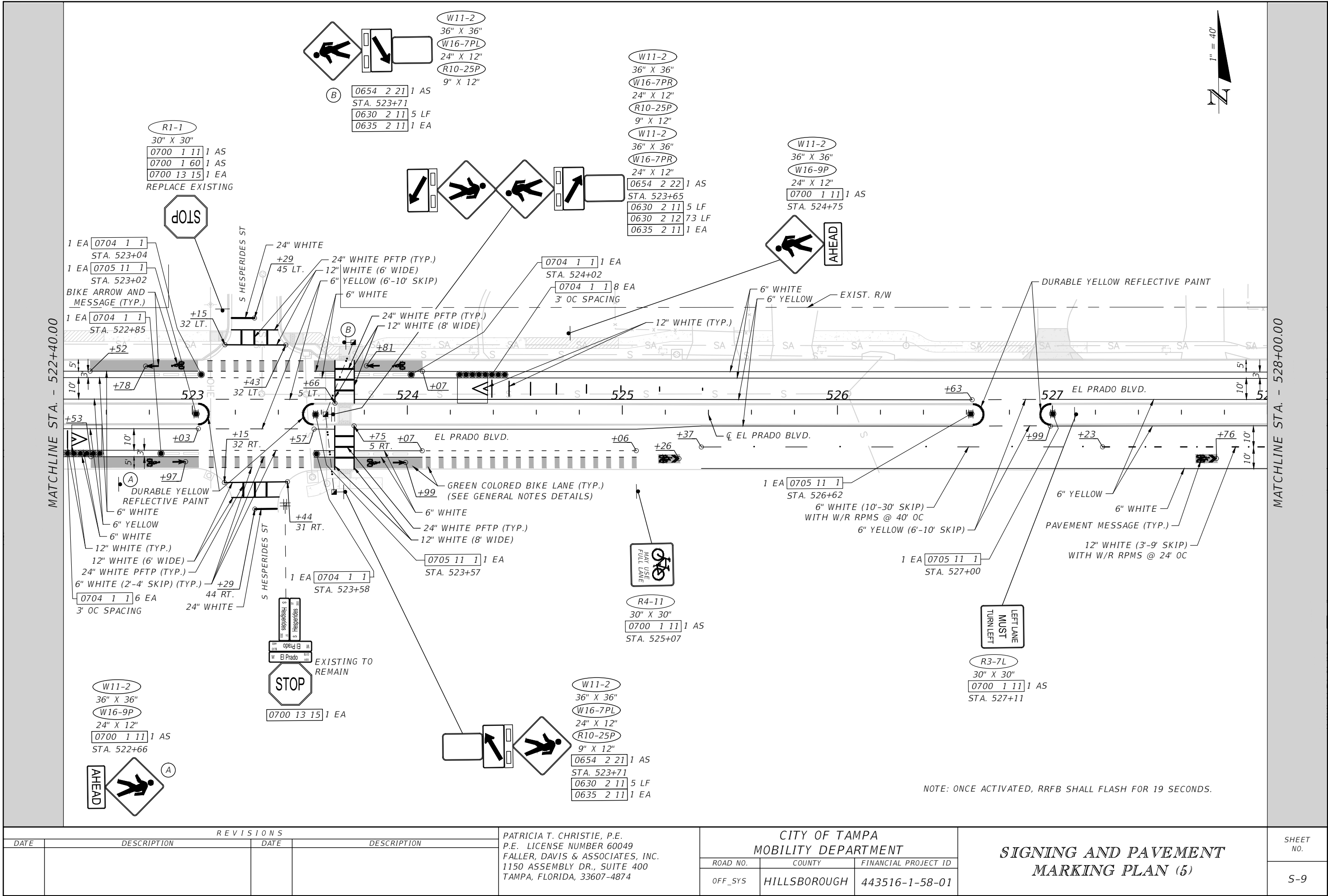
SHEET NO.
S-6

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-7
					OFF_SYS	HILLSBOROUGH	443516-1-58-01		





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

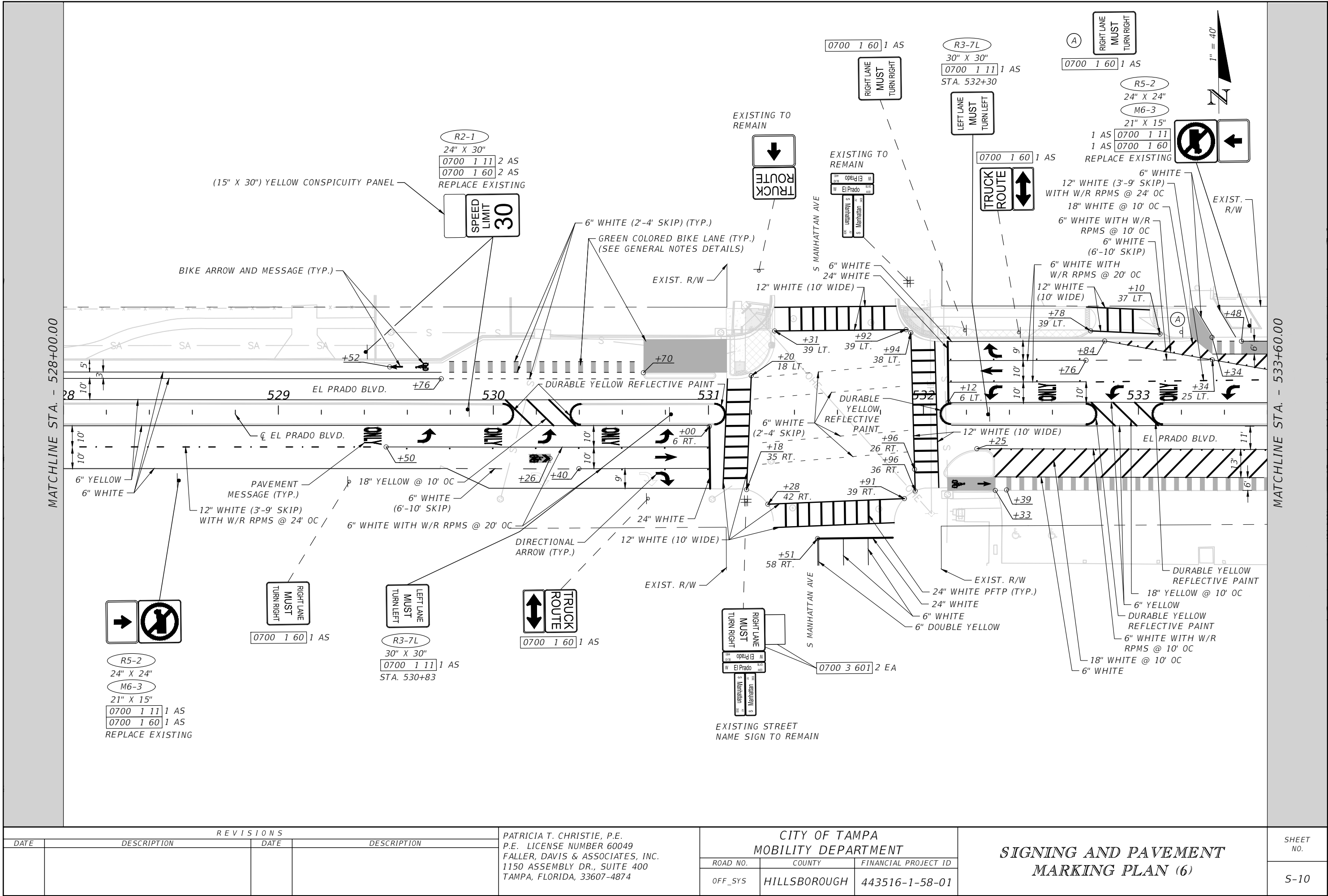
PATRICIA T. CHRISTIE, P.E.
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FALLER, DAVIS & ASSOCIATES, INC.
1150 ASSEMBLY DR., SUITE 400
TAMPA, FLORIDA, 33607-4874

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF_SYS	HILLSBOROUGH	443516-1-58-01

SIGNING AND PAVEMENT MARKING PLAN (5)	

SHEET NO.
5-9

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

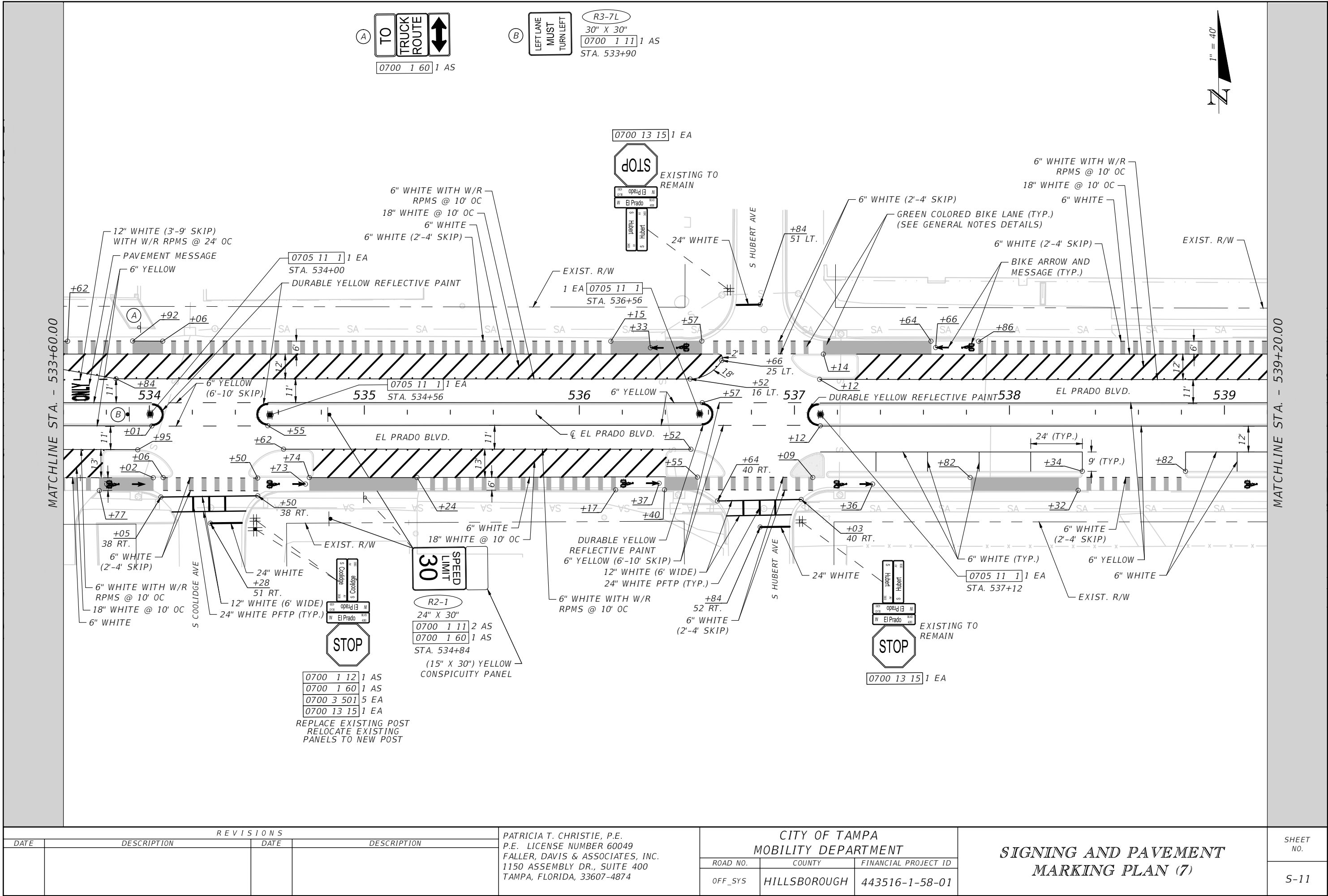
PATRICIA T. CHRISTIE, P.E.
P.E. LICENSE NUMBER 60049
FALLER, DAVIS & ASSOCIATES, INC.
1150 ASSEMBLY DR., SUITE 400
TAMPA, FLORIDA, 33607-4874

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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SIGNING AND PAVEMENT MARKING PLAN (6)	

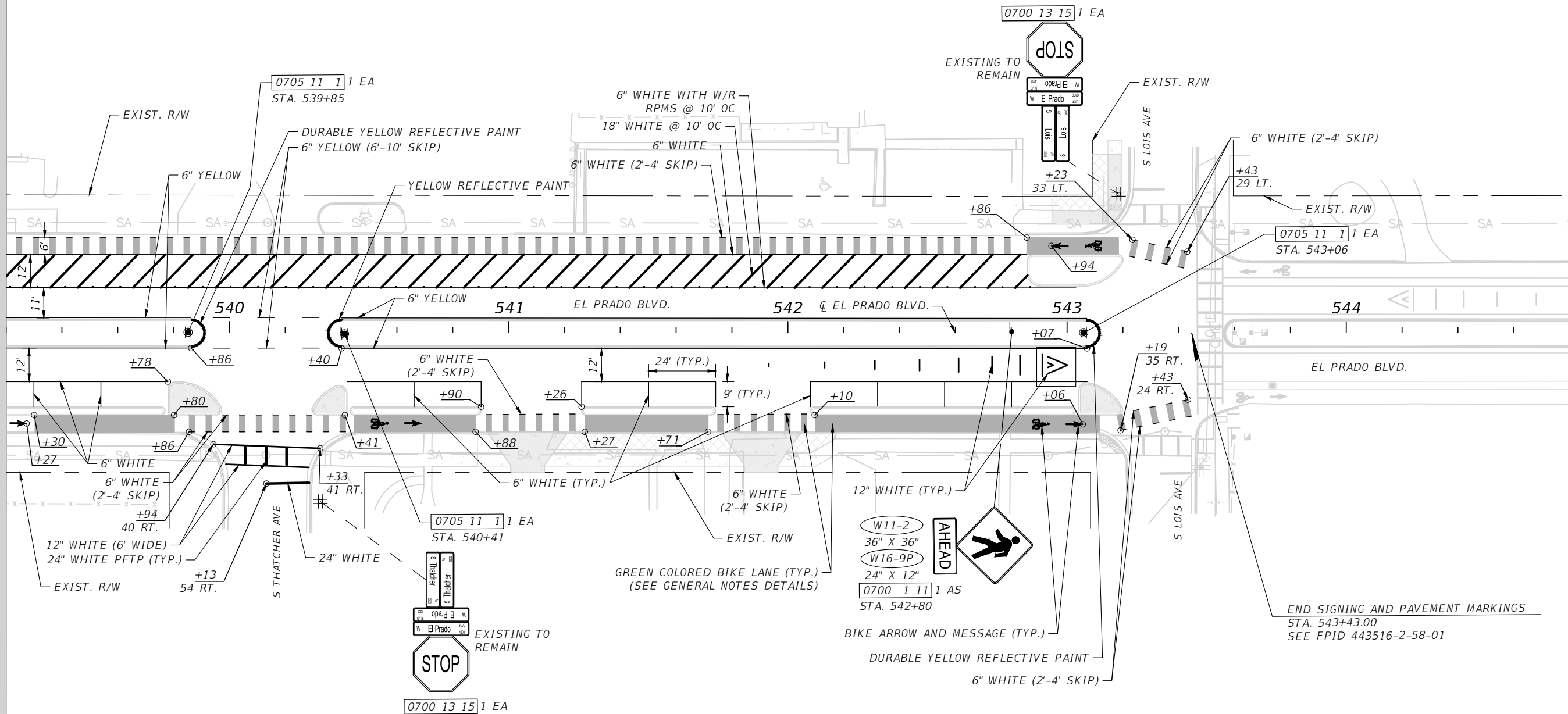
SHEET NO.
5-10

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MATCHLINE STA. - 539+20.00



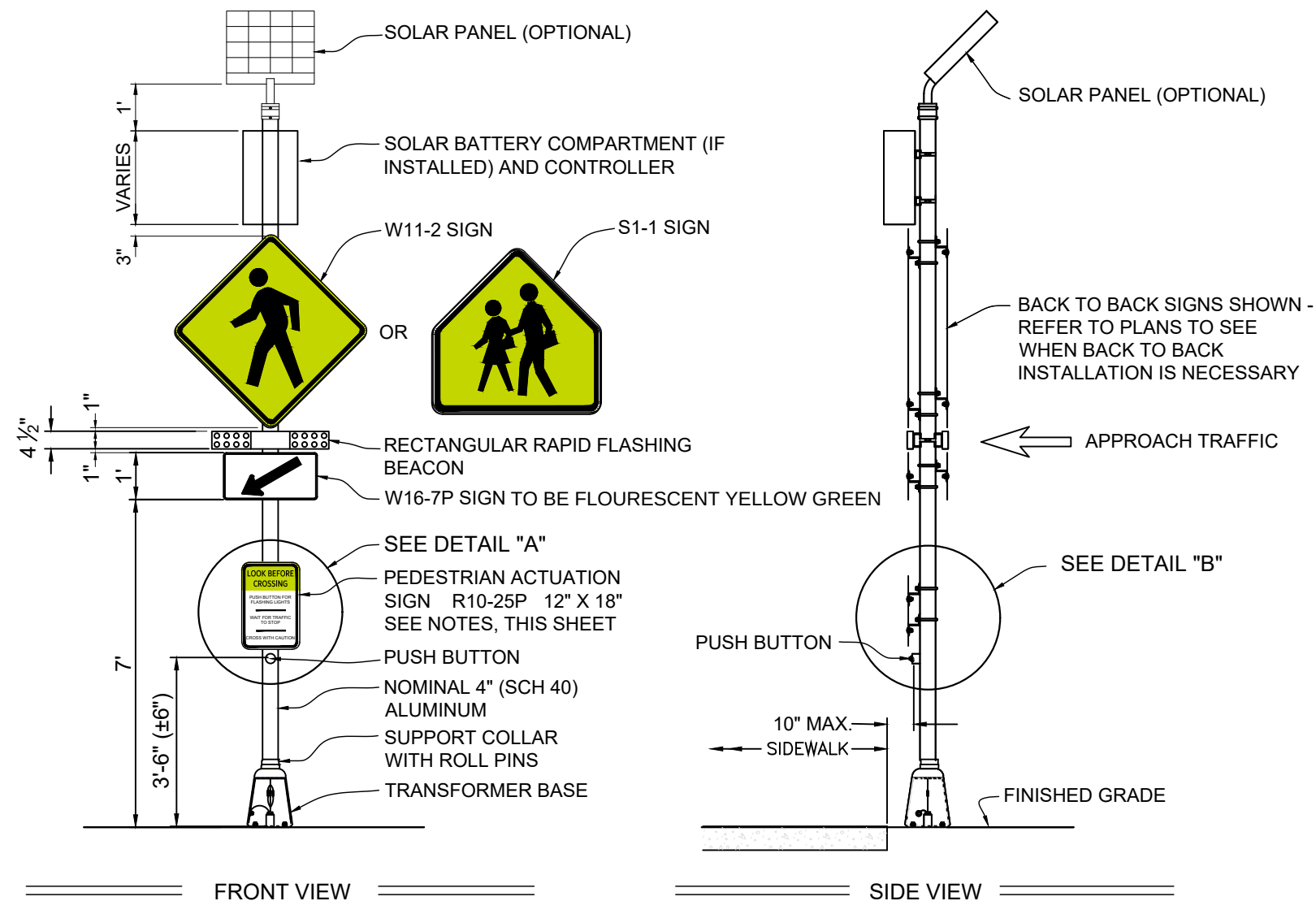
REVISIONS			
			DESCRIPTION

PATRICIA T. CHRISTIE, P.E.
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1150 ASSEMBLY DR., SUITE 400
TAMPA, FLORIDA, 33607-4874

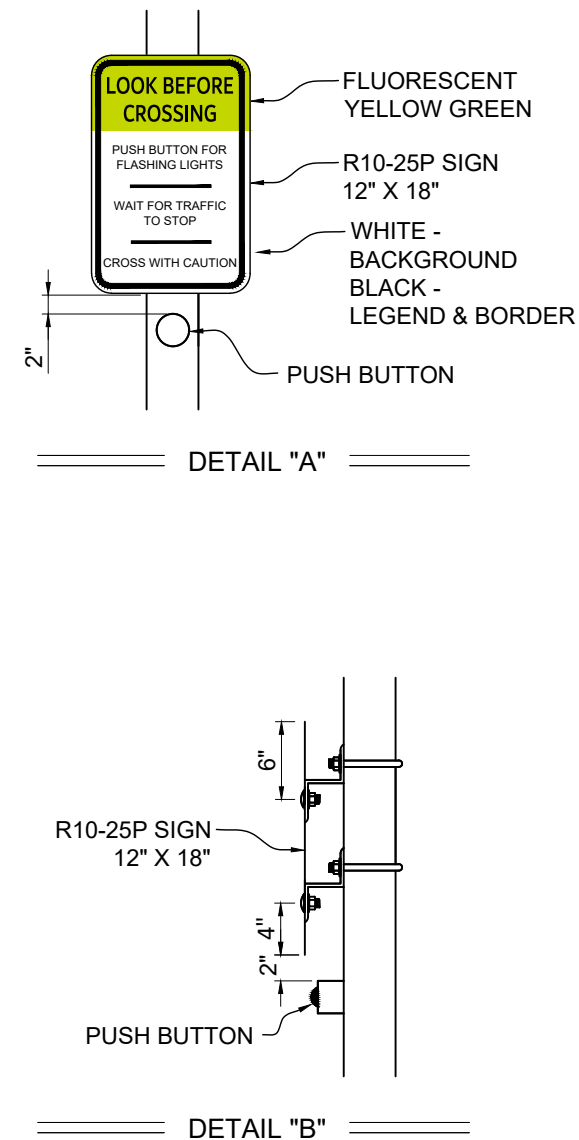
CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF_SYS	HILLSBOROUGH	443516-1-58-01

SIGNING AND PAVEMENT MARKING PLAN (8)	
S-12	

SHEET NO.
5-12



RECTANGULAR RAPID FLASHING BEACON ASSEMBLY DETAIL



RRFB ASSEMBLY NOTES:

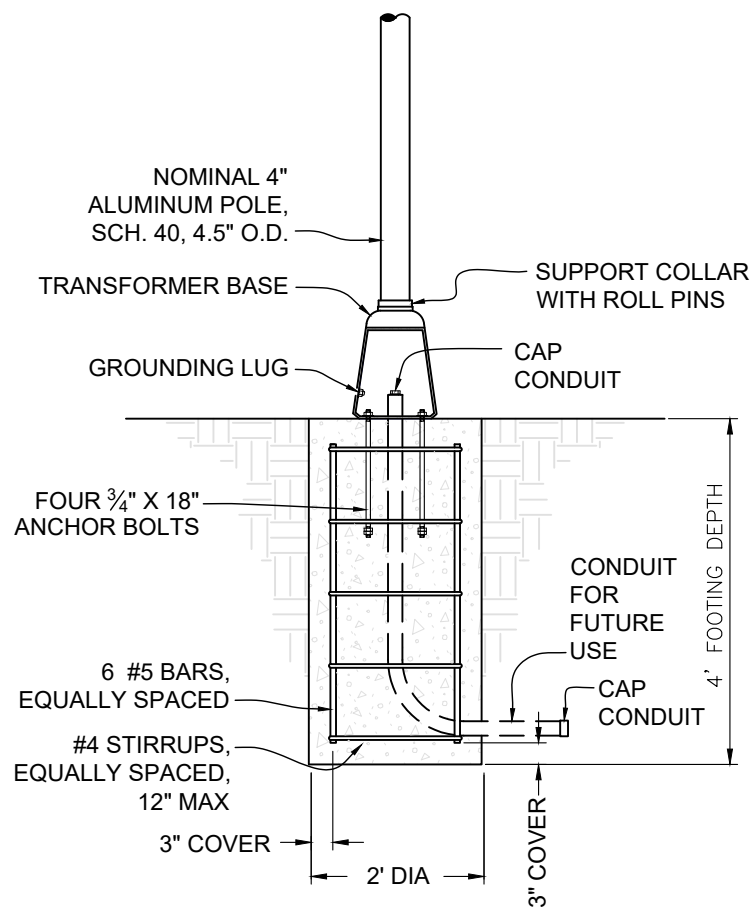
1. A TRANSFORMER BASE IS REQUIRED FOR BOTH CONVENTIONALLY-POWERED AND SOLAR-POWERED APPLICATIONS.
2. TRANSFORMER BASE MUST HAVE AN ALUMINUM DOOR NOT PLASTIC.
3. ALUMINUM POLES AND TRANSFORMER BASES MUST MEET THE MATERIAL REQUIREMENTS OF FDOT SPECIFICATION 646.
4. ENGAGE ALL THREADS ON THE TRANSFORMER BASE AND POST UNLESS THE ALUMINUM POST IS FULLY SEATED INTO BASE.
5. INSTALL CONTROLLER ON THE BACKSIDE OF POST FROM APPROACH TRAFFIC.
6. WHEN WIRE ENTRY HOLES ARE DRILLED IN THE SIGN COLUMN, USE A BUSHING OR RUBBER GROMMET TO PROTECT CONDUCTORS.
7. FOR SOLAR-POWERED APPLICATIONS, ORIENT SOLAR PANEL TO FACE SOUTH FOR OPTIMAL EXPOSURE TO SUNLIGHT.
8. END CAPS TO FLASHER BAR MUST BE REMOVED AFTER INSTALLATION.
9. CONTRACTOR MUST "BAG" ALL SIGNS UNTIL CITY OF TAMPA INSPECTION HAS BEEN PERFORMED.
10. CONTRACTOR MUST SCHEDULE, 10 DAYS IN ADVANCE, AN INSPECTION THROUGH:
DAVIDWORLEY, SIGNAL SHOP SUPERVISOR
DAVID.WORLEY@TAMPAGOV.NET
3802 E 26TH AVENUE, TAMPA, FL 33605
PHONE: 813.393.8425

PEDESTRIAN ACTUATION SIGN & PUSH BUTTON NOTES:

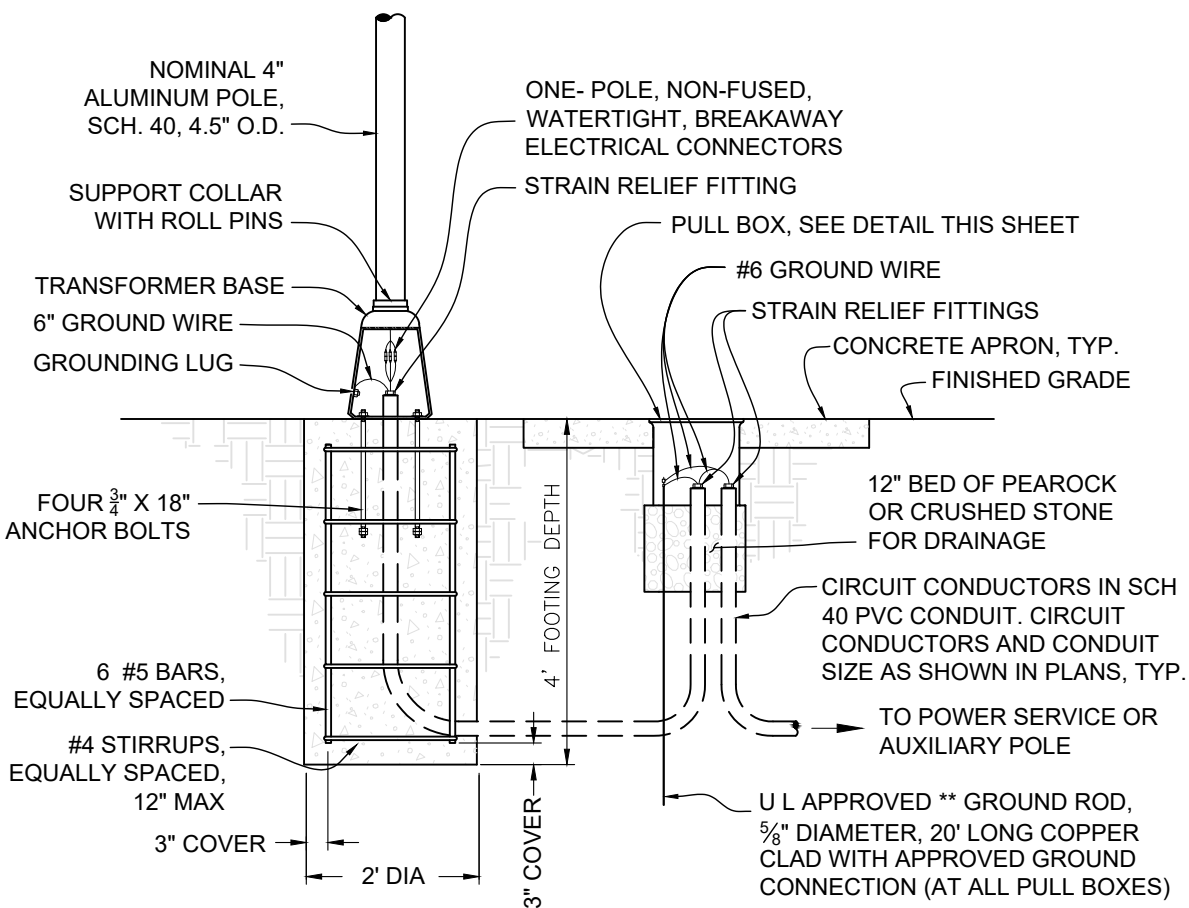
1. INSTALL PUSH BUTTON AND PEDESTRIAN ACTUATION SIGNS WITH FACES PARALLEL TO THE CROSSING DIRECTION.
2. PEDESTRIAN PUSH BUTTON AND ACTUATION SIGN MUST BE LOCATED AT THE FLAT LANDING.
3. PEDESTRIAN PUSH BUTTONS MUST BE WITHIN A 10" REACH FROM THE FLAT LANDING, AND 42" FROM THE ALL WEATHER SURFACE TO THE CENTER OF THE BUTTON PER ADA SPECIFICATIONS.
4. SEE DETAIL B FOR ACTUATION SIGN MOUNTING INSTRUCTIONS. SIGN MOUNTING HEIGHT IS MEASURED FROM THE TOP OF THE PUSH BUTTON ACTUATION SWITCH. MOUNT SIGN 2" ABOVE THE PEDESTRIAN PUSH BUTTON ACTUATOR.
5. PEDESTRIAN PUSH BUTTONS MUST HAVE A RAISED TACTILE ARROW POINTING IN THE DIRECTION OF CROSSING. PUSH BUTTON SHALL NOT HAVE LEDS.
6. INSTALL A SINGLE PEDESTRIAN ACTUATION SIGN PER RRFB ASSEMBLY.

FOUNDATION NOTES:

1. CONTRACTOR TO CALL SUNSHINE 811 (800.432.4770) FOR UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
2. IN THE CASE THAT UNDERGROUND UTILITIES MAY INTERFERE WITH FOUNDATIONS, USING A SPREAD FOOTER MAY BE CONSIDERED. CONTRACTOR MUST CONTACT THE EOR TO DESIGN AND PROVIDE DETAILS.
3. WHEN IN CONFLICT, UTILITY POLES, GAS LINES, UNDERGROUND ELECTRIC AND AND TELEPHONE CABLES WILL BE RELOCTAED BY THE RESPECTIVE UTILITY OWNERS AT THEIR OWN EXPENSE AS DIRECTED BY THE ENGINEER.
4. ALL DISTURBED AREAS SHALL BE SODDED AS DIRECTED BY THE ENGINEER.
5. SEE GROUND ROD NOTE BELOW.



RRFB FOUNDATION DETAIL
WITHOUT PULL BOX

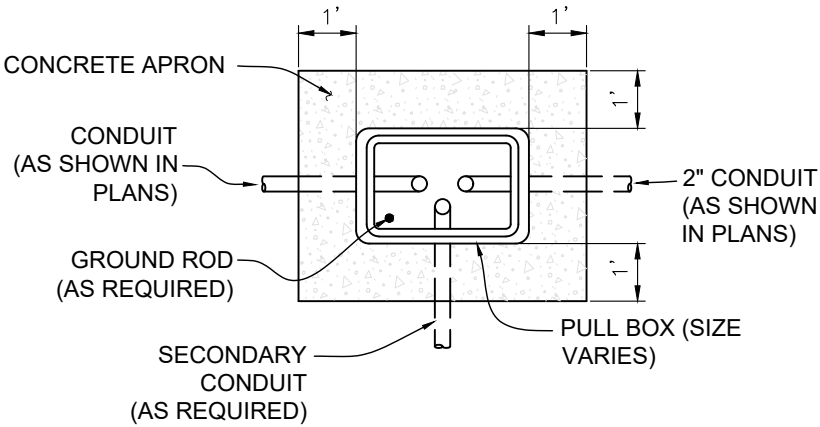


**GROUND ROD MUST BE WITHIN 10' OF THE POLE.
IF PULL BOX IS MORE THAN 10', THEN A GROUND ROD MAY BE INSTALLED IN FOUNDATION

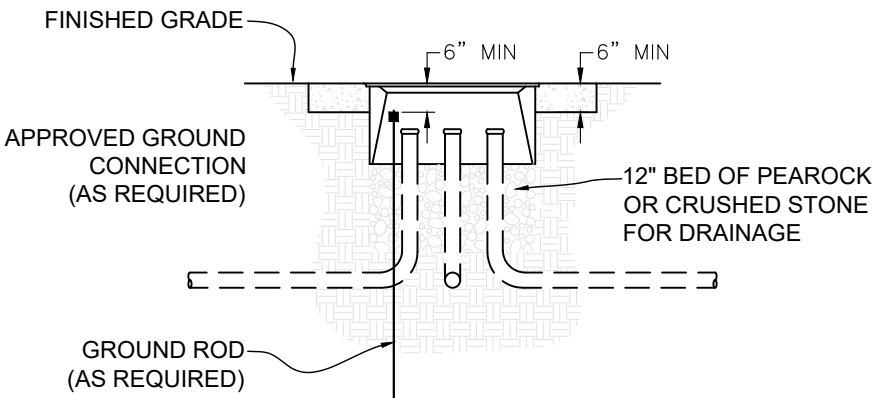
RRFB FOUNDATION DETAIL
WITH PULL BOX

PULL BOX NOTES:

1. INSTALL A 1'-0" WIDE (MIN.) CONCRETE APRON AROUND ALL BOXES USING CLASS NS CONCRETE. SLOPE THE APRON AWAY FROM THE BOX.
2. WHERE MULTIPLE PULL BOXES ARE PLACED SIDE BY SIDE, MAINTAIN AT LEAST 8" BETWEEN THE PULL BOXES.
3. RECTANGULAR BOXES SHOWN, OTHERS SIMILAR.



PLAN VIEW



SECTION VIEW

PULL BOX - DETAIL AND NOTES