CITY OF TAMPA
TRANSPORTATION DIVISION

CONTRACT PLANS

CITY OF TAMPA PROJECT NO. 0000005
CONTRACT NO: 12-D-00057
FINANCIAL PROJECT ID 437044-1-54-01
ARMENIA AVENUE AT BUSCH BOULEVARD

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
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S-4 - S-9	SIGNING AND PAVEMENT MARKING PLAN

DEREK M. GIL
LICENSE
No 54798
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Derek M Gil
2020.09.10 18:13:06 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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PLANS PREPARED BY:

ELEMENT
ENGINEERING GROUP
1713 E. 9th AVENUE | TAMPA, FL 33605
P 813.386.2101 | TF 888.603.1942 | F 813.386.2106
CERTIFICATE OF AUTHORIZATION NUMBER | 26921
EOR | DEREK M. GIL, PE 54798

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

SIGNING AND PAVEMENT MARKING PLANS
ENGINEER OF RECORD: DEREK M. GIL

P.E. NO.: 54798

FISCAL YEAR	SHEET NO.
21	S-1

CITY PROJECT MANAGER: NINA MABILLEAU, E.I.

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS S-4 PLAN	S-4 FINAL	S-5 PLAN	S-5 FINAL	S-6 PLAN	S-6 FINAL	S-7 PLAN	S-7 FINAL	S-8 PLAN	S-8 FINAL	S-9 PLAN	S-9 FINAL	PLAN	FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
0700 1 11	Single Post Sign, F&I Ground Mount, Up To 12 SF	AS	5		11		19		7				1				43		43	
0700 1 12	Single Post Sign, F&I Ground Mount, 12-20 SF	AS			1				2								3		3	
0700 1 50	Single Post Sign, Relocate	AS	1		3		5		4		1		1				15		15	
0700 1 60	Single Post Sign, Remove	AS	3		7		6		7				1				24		24	
0700 2 60	Multi-Post Sign, Remove	AS									1						1		1	
0700 3 601	Sign Panel, Remove, Up To 12 SF	EA			2				2								4		4	
0700 13 15	Retroreflective Sign Strip- Furnish and Install, 5'	EA	2														2		2	
0705 11 1	Delineator, Flexible Tubular	EA	3		2		2		1								8		8	
0710 11190	Painted Pavement Markings, Standard, White, Island Nose	SF					7										7		7	
0710 11290	Painted Pavement Markings, Standard, Yellow, Island Nose	SF	34		33		21		6								94		94	
710 90	Painted Pavement Markings - Final Surface	LS	1														1		1	
*	Retro-Reflective Pavement Marker (W/R)	EA	1		52		69		36		8						166		166	
*	Retro-Reflective Pavement Marker (Y/R)	EA	1		5												6		6	
*	Retro-Reflective Pavement Marker (Y/Y)	EA	13		8				42								63		63	
*	Painted Pavement Markings, Standard, White, Solid, 6"	GM	0.092		0.234		0.255		0.204		0.078		0.038				0.901		0.901	
*	Painted Pavement Markings, Standard, White, Solid, 8" For Urban Island	GM					0.031										0.031		0.031	
*	Painted Pavement Markings, Standard, White, Solid, 12" For Drop Lane	GM			0.046				0.041								0.087		0.087	
*	Painted Pavement Markings, Standard, White, Solid, 12" For Crosswalk	LF	108		188		611		278								1185		1185	
*	Painted Pavement Markings, Standard, White, Solid, 24" for Stop Line	LF	33		38		296		42								409		409	
*	Painted Pavement Markings, Standard, White, (10/30) Skip, 6"	GM			0.084		0.023										0.107		0.107	
*	Painted Pavement Markings, Standard, White, (3/9) Skip, 12"	GM			0.035		0.064		0.023								0.122		0.122	
*	Painted Pavement Markings, Standard, White, (2/4) Dotted Guide Line/(6/10) Gap Extension, 6"	GM	0.018		0.091		0.069		0.050								0.228		0.228	
*	Painted Pavement Markings, Standard, Message or Symbol (ONLY)	EA			3		1		4								8		8	
*	Painted Pavement Markings, Standard, Message or Symbol (RR)	EA					5										5		5	
*	Painted Pavement Markings, Standard, Arrows (LEFT)	EA			8		4		7								19		19	
*	Painted Pavement Markings, Standard, Arrows (RIGHT)	EA					2				3						5		5	
*	Painted Pavement Markings, Standard, Arrows (THRU-RIGHT)	EA					1		3								4		4	
*	Painted Pavement Markings, Standard, Yellow, Solid, 6"	GM	0.101		0.209		0.124		0.235								0.669		0.669	
*	Painted Pavement Markings, Standard, Yellow, Solid, 18" for Diagonals	LF	19		52				70								141		141	
*	Painted Pavement Markings, Standard, Yellow, (2/4) Dotted Guide Line/(6/10) Gap Extension, 6"	GM	0.008				0.040										0.048		0.048	
0711 11102	Thermoplastic, Standard, White, Solid, 8" For Urban Island	GM					0.031										0.031		0.031	
0711 11103	Thermoplastic, Standard, White, Solid, 12" For Drop Lane	GM			0.046				0.041								0.087		0.087	
0711 11123	Thermoplastic, Standard, White, Solid, 12" For Crosswalk	LF	108		188		611		278								1185		1185	
0711 11125	Thermoplastic, Standard, White, Solid, 24" for Stop Line	LF	33		38		296		42								409		409	
0711 11141	Thermoplastic, Standard, White, (2/4) Dotted Guide Line/(6/10) Gap Extension, 6"	GM	0.018		0.091		0.069		0.050								0.228		0.228	
0711 11160	Thermoplastic, Standard, White, Message or Symbol	EA															13		13	
	Thermoplastic, Standard, White, Message or Symbol (ONLY)	EA			3		1		4											
	Thermoplastic, Standard, White, Message or Symbol (RR)	EA					5													
0711 11170	Thermoplastic, Standard, White, Arrows	EA															28		28	
	Thermoplastic, Standard, White, Arrows (LEFT)	EA			8		4		7											
	Thermoplastic, Standard, White, Arrows (RIGHT)	EA					2				3									
	Thermoplastic, Standard, White, Arrows (THRU-RIGHT)	EA					1		3											
0711 11224	Thermoplastic, Standard, Yellow, Solid, 18" for Diagonals	LF	19		52				70								141		141	
0711 11241	Thermoplastic, Standard, Yellow, (2/4) Dotted Guide Line/(6/10) Gap Extension, 6"	GM	0.008				0.040										0.048		0.048	
0711 14125	Thermoplastic, Preformed, White, Solid, 24" For Crosswalk	LF	124		157		602		241								1124		1124	
0711 16101	Thermoplastic, Std - Other Surfaces, White, Solid, 6"	GM	0.092		0.234		0.255		0.204		0.078		0.038				0.901		0.901	
0711 16131	Thermoplastic, Std - Other Surfaces, White, (10/30) Skip, 6"	GM			0.084		0.023										0.107		0.107	
0711 16133	Thermoplastic, Std - Other Surfaces, White, (3/9) Skip, 12" For Drop Lane	GM			0.035		0.064		0.023								0.122		0.122	
0711 16201	Thermoplastic, Std - Other Surfaces, Yellow, Solid, 6"	GM	0.101		0.209		0.124		0.235								0.669		0.669	
0711 17 1	Thermoplastic, Remove Existing Thermoplastic Pavement Markings- Surface To Remain	SF	85														85		85	

* 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.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ELEMENT
ENGINEERING GROUP
1713 E. 9th AVENUE | TAMPA, FL 33605
P 813.386.2101 | TF 888.603.1942 | F 813.386.2106
EOR | DEREK M. GIL, PE 54798

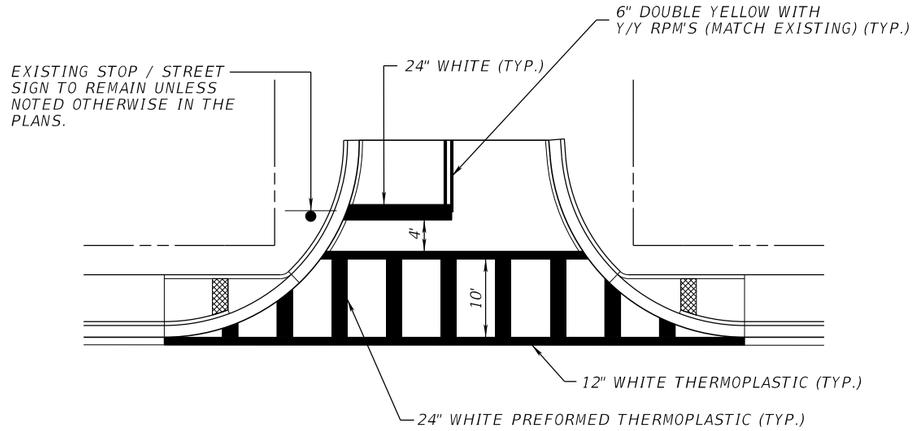
CITY OF TAMPA
TRANSPORTATION DIVISION

CONTRACT NO: 12-D-00057

ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

TABULATION OF QUANTITIES

SHEET NO.
S-2



NOTE: UNLESS LABELED OTHERWISE, ALL CROSSWALKS SHALL BE 10' WIDE MEASURED INSIDE TO INSIDE OF 12" STRIPE, AND CENTERED ON A PROJECTION BETWEEN THE RAMPS. SEE FDOT STANDARD PLAN 711-001 FOR ADDITIONAL DETAILS.

CROSSWALK DETAIL

SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. SIGNING AND PAVEMENT MARKINGS SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL SIGNING AND PAVEMENT MARKING STATIONING LABELS ARE BASED ON BASELINE SURVEY ARMENIA AVE. AND BASELINE BUSCH AS SHOWN IN THE PLANS.
3. ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED AND REINSTALLED.
4. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
5. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT DAMAGE. IF ANY SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE PROJECT ENGINEER, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
7. VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
8. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN IN THE PLANS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION.
9. THE CONTRACTOR IS TO CONTACT DAN RODRIGUEZ (RODRIGUEZD@GOHART.ORG) OF HILLSBOROUGH AREA REGIONAL TRANSIT AUTHORITY AT (813) 309-1616, TO COORDINATE ANY WORK RELATED TO THE TRANSIT BUS SIGNS.
10. ALL SIGNS ALONG SR580/BUSCH BLVD. SHALL BE INSTALLED IN ACCORDANCE WITH THE JULY 2020 FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

SIGNING & PAVEMENT MARKING PAY ITEM NOTES:

1. 700-1-11:
   ALL PEDESTRIAN SIGNS INCLUDING: R10-15, W11-2, W16-7P, W16-9P AND S1-1 SHALL UTILIZE FLUORESCENT YELLOW-GREEN SHEETING.
2. 711-14-125
   FOR FINAL CROSSWALK PAVEMENT MARKINGS USE PREFORMED THERMOPLASTIC FOR 24" WHITE.

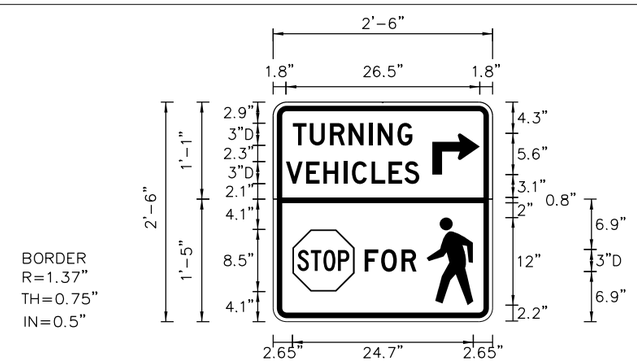
ABBREVIATIONS:

PFTP - PREFORMED THERMOPLASTIC

SIGN NAME	R10-15 MOD	QTY	3	SIGN NUMBER	STATION(S)
PANEL		BORDER			Varies
WIDTH	2'-6"	WIDTH	0.75"		
HEIGHT	2'-6"	RADII	1.38"		
LEGEND	Black	COLOR	Black		
COLOR	Top-FLG Bot-White				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR90R1	0	21.8	3.4	6.5	5.6
STOP Shield	0	2.6	4.1	8.5	8.5
Pedestrian	0	21	2.3	6.4	12

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

COPY		T	U	R	N	I	N	G		L													
SPACE	2.7	2.3	2.8	2.5	2.8	1.2	2.7	2	11	16.3													
COPY		V	E	H	I	C	L	E	S		L												
SPACE	1.8	2.7	2.4	2.8	1.1	2.7	2.3	2.2	2	10	18.2												
COPY		F	O	R		L																	
SPACE	12.5	2.2	2.8	2	10.4	7.1																	

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CITY OF TAMPA
TRANSPORTATION DIVISION

CONTRACT NO: 12-D-00057

ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

GENERAL NOTES

SHEET NO.
S-3

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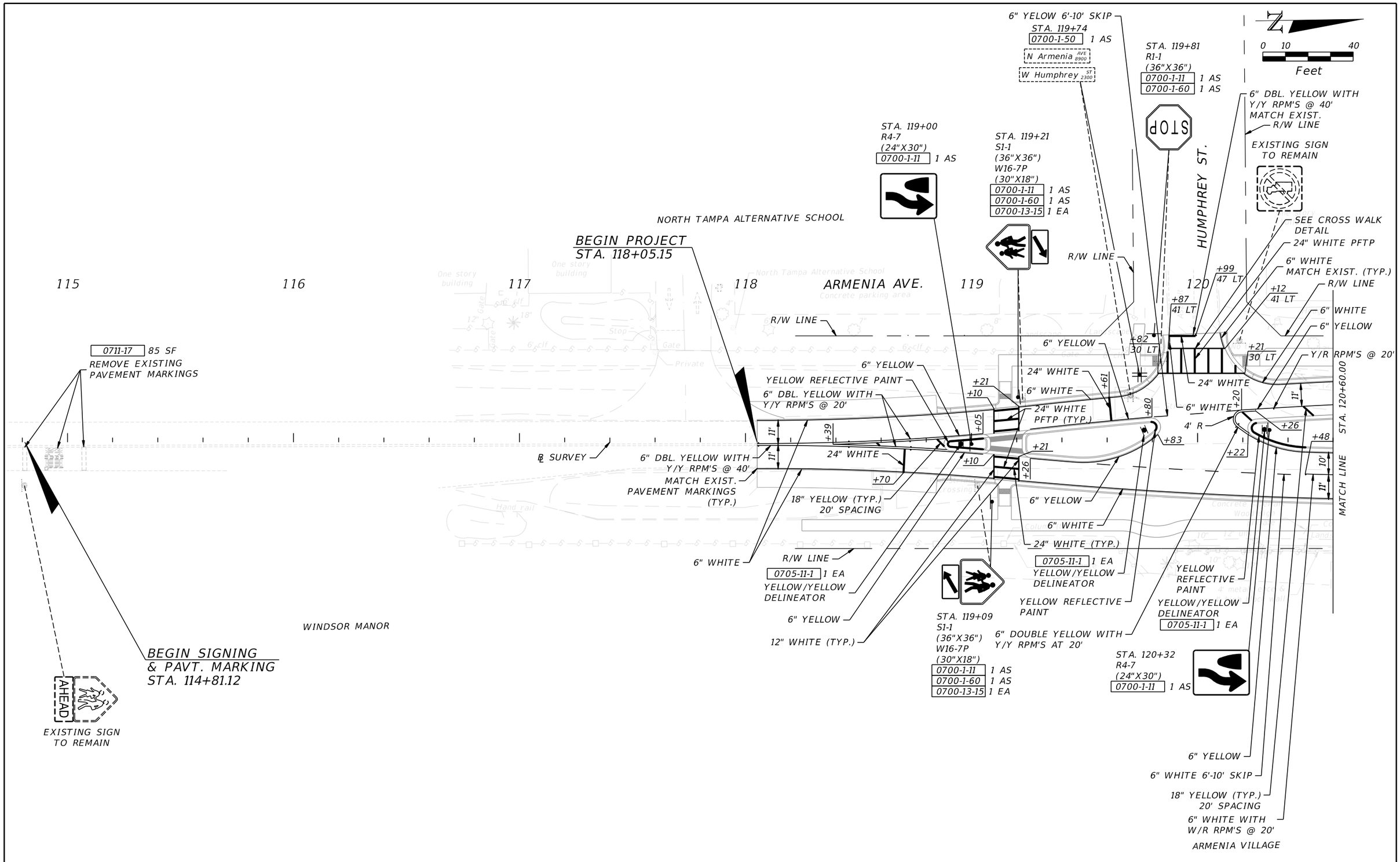

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CITY OF TAMPA
TRANSPORTATION DIVISION

CONTRACT NO: 12-D-00057

ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-4

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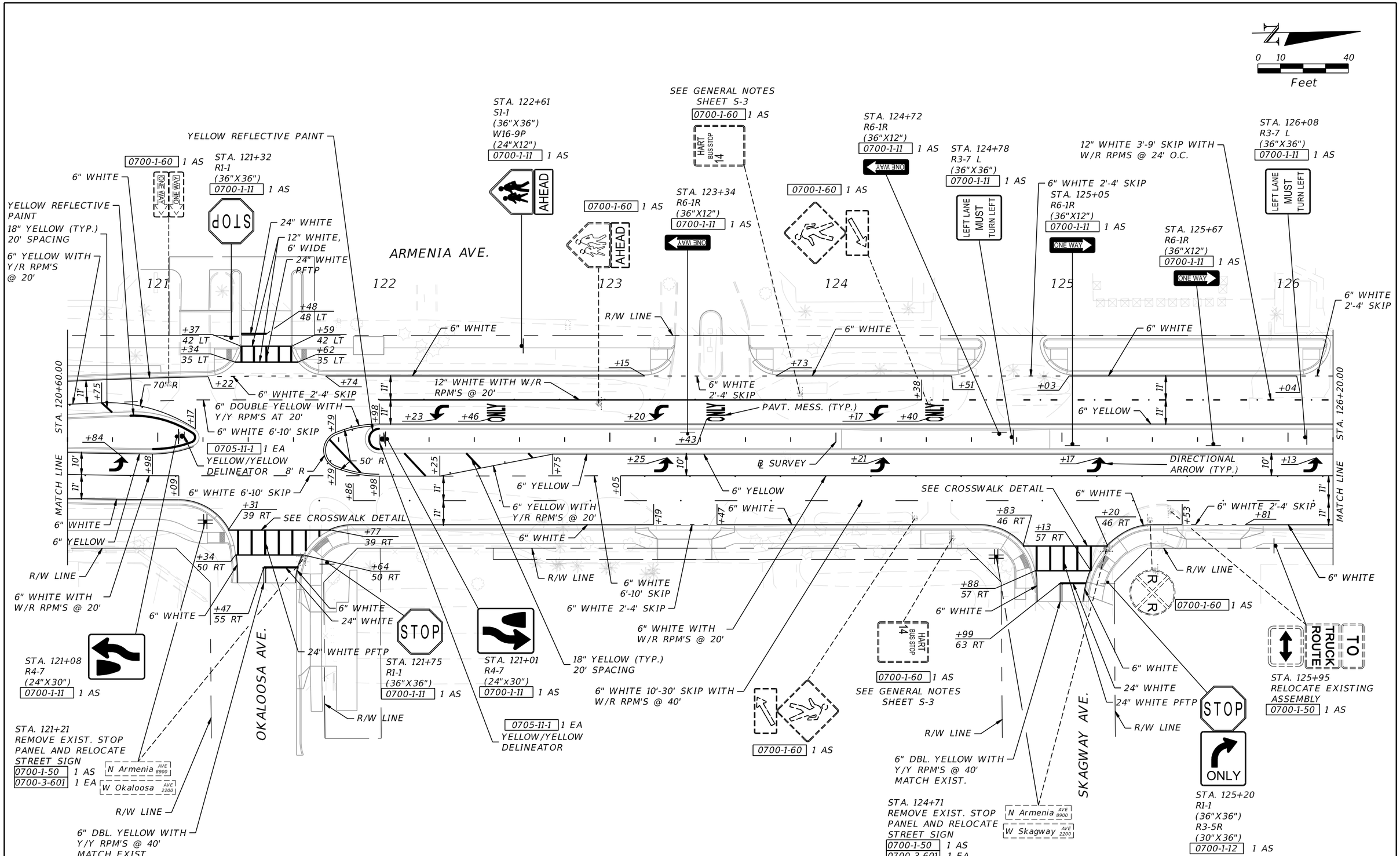

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ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-5

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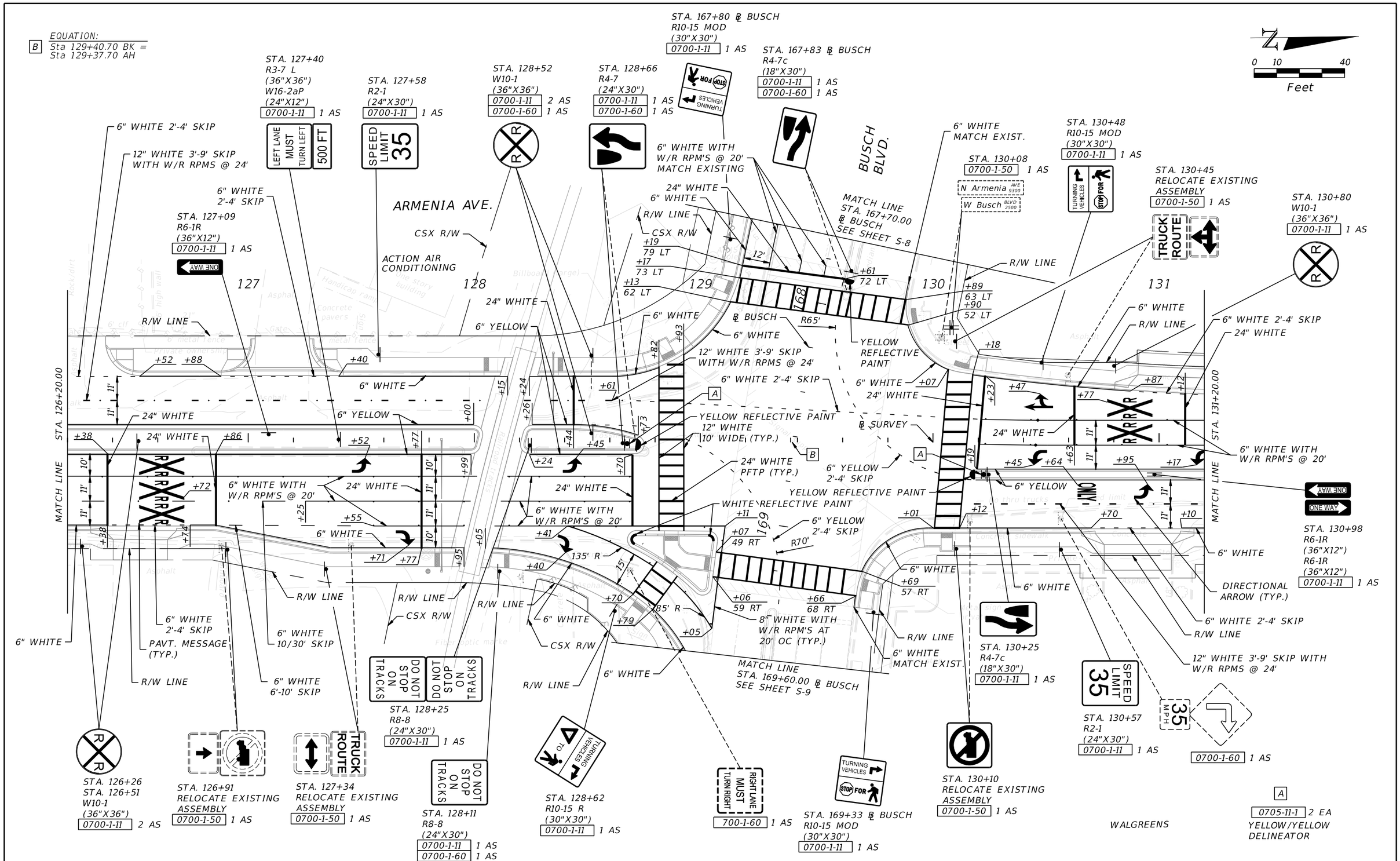

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ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-6

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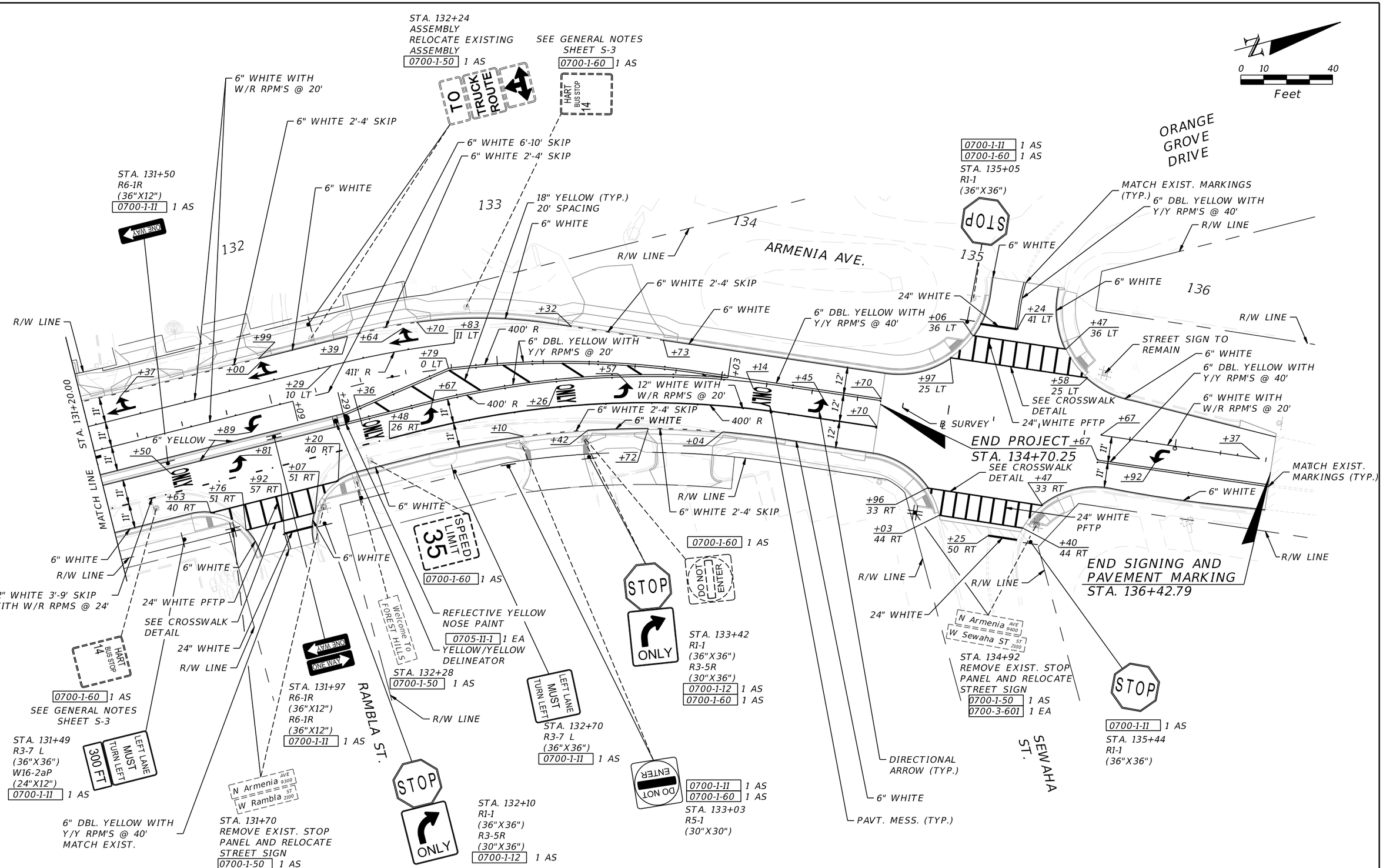

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ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-7

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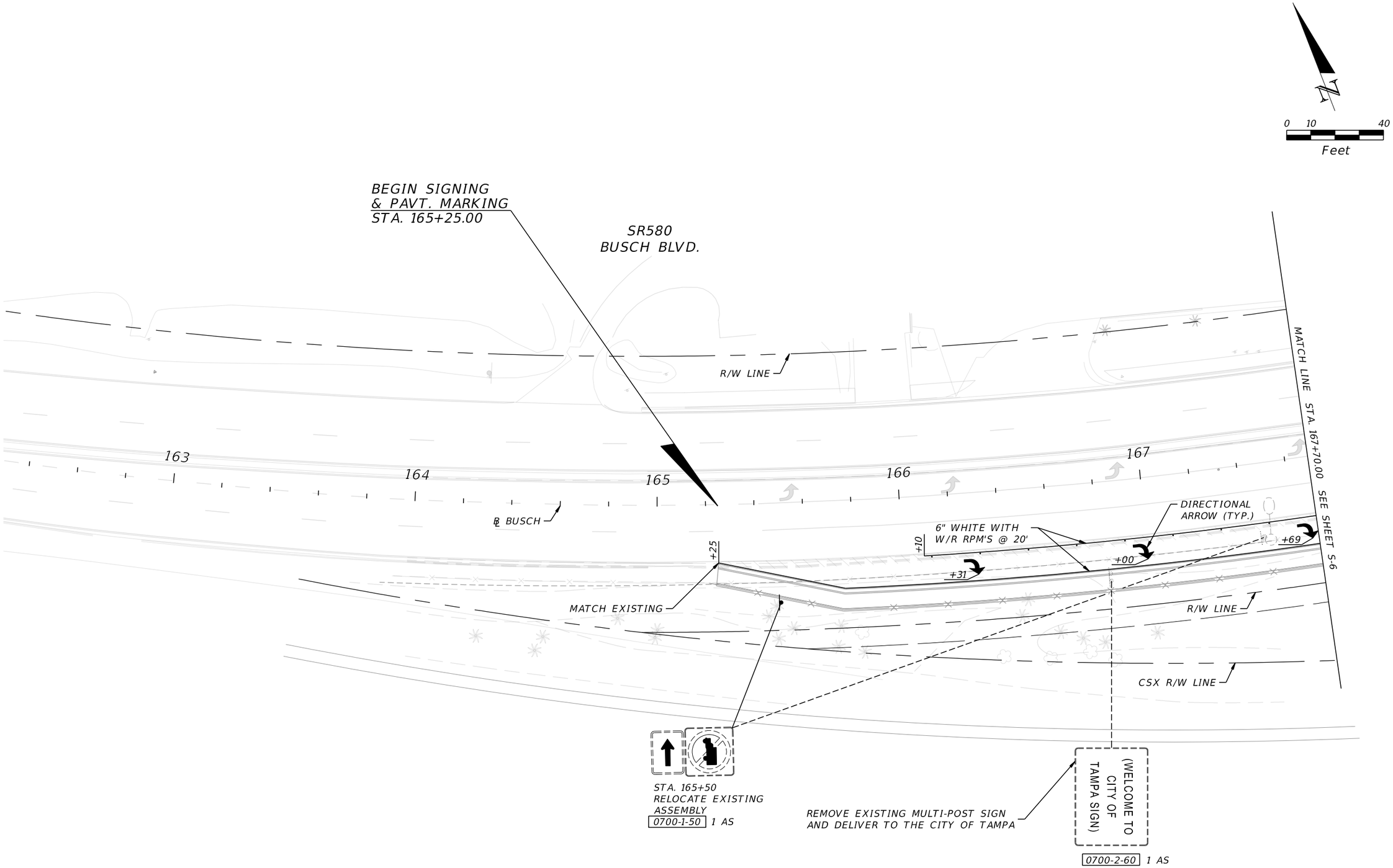

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ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-8

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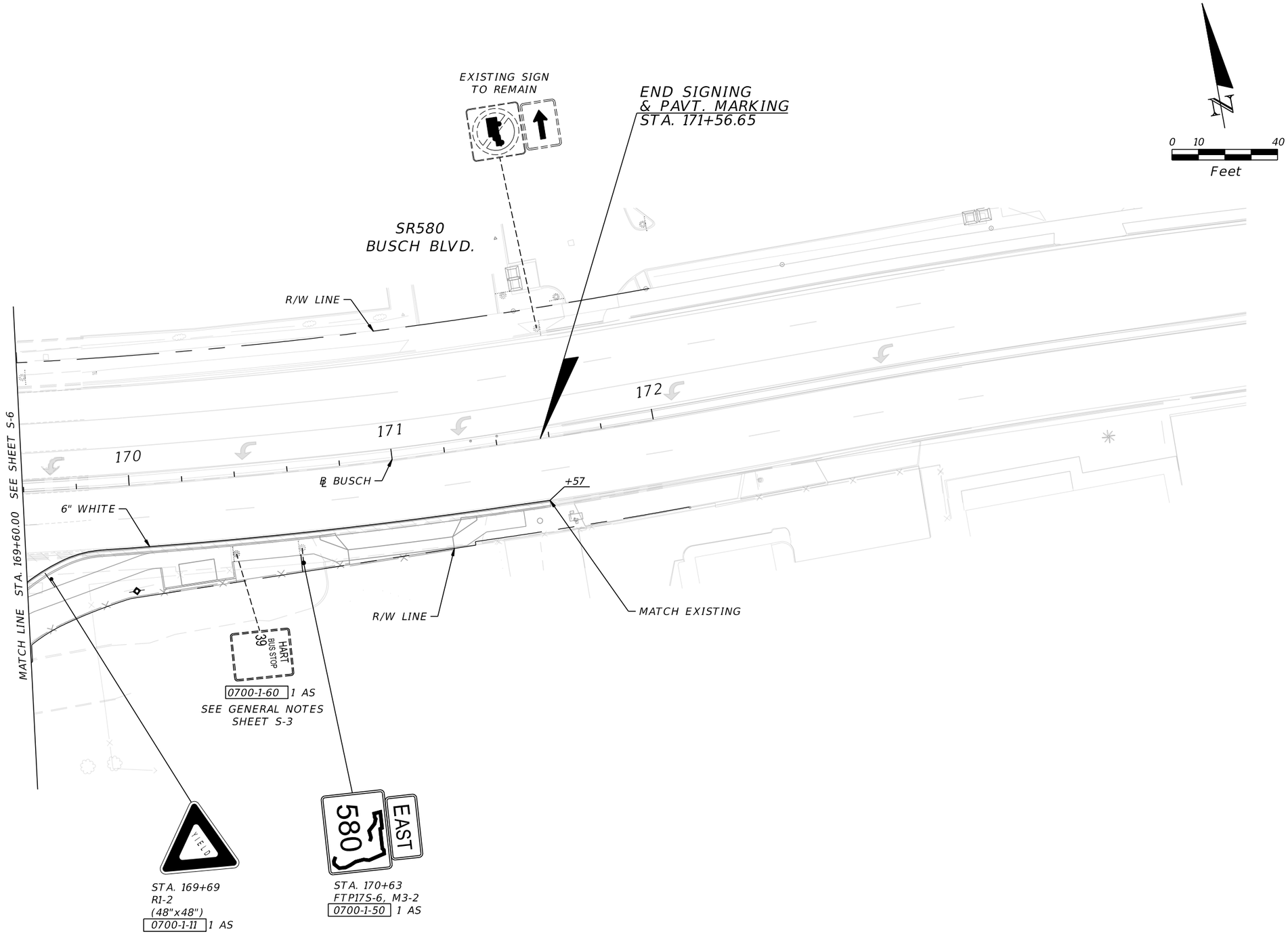

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ARMENIA AVENUE INTERSECTION PROJECT
AT SR 580/BUSCH BLVD.

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-9

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