The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

CITY OF TAMPA

DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

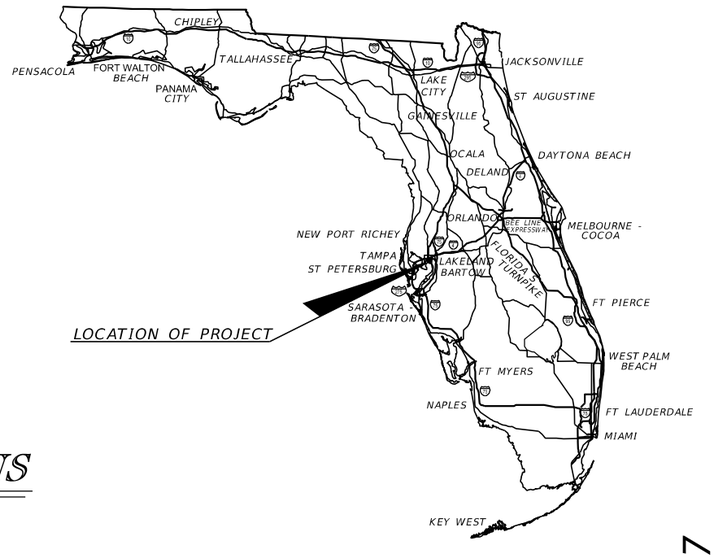
CITY OF TAMPA PROJECT ID 1000260

FINANCIAL PROJECT ID: 432717-1-58-01

(FEDERAL FUNDS)

WILLOW AVENUE FROM SWANN AVENUE TO MAIN STREET
BIKE LANE/SIDEWALK PROJECT

SIGNING AND PAVEMENT MARKING PLANS



INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2 - S-3	TABULATION OF QUANTITIES
S-4	GENERAL NOTES
S-5 TO S-18	SIGNING AND PAVEMENT PLANS

ROADWAY PLANS
ENGINEER OF RECORD:

GREGORY S. TRIM, P.E. NO.: 52935
SAM SCHWARTZ ENGINEERING, D.P.C., PA
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
(813) 289-7771
CONTRACT NO.: 13-05-1893
VENDOR NO.: 46-1885050
CERTIFICATE OF AUTHORIZATION NO.: 30268

GEC PROJECT MANGER:

CHRIS MEARES, P.E.

CITY OF TAMPA
PROJECT MANAGER:

NINA S. MABILLEAU, E.I.

FINAL PLANS SUBMITTAL - 03/10/17

FISCAL YEAR	SHEET NO.
17	S-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL	
			S-5		S-6		S-7		S-8		S-9		S-10		S-11		S-12		S-13		S-14					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
700-1-11	Single Post Sign, F&I Ground Mount, Up to 12 SF	AS	2						3		1		2						3		2		13			
700-1-12	Single Post Sign, F&I Ground Mount, 12-20 SF	AS							2														2			
700-1-50	Single Post Sign, Relocate	AS																	1		1		2			
700-1-60	Single Post Sign, Remove	AS	1						2		1												4			
706-3	Retro Reflective Pavement Markers																									
	Bi-Dir., Yellow	EA							20		2								20				42			
	Bi-Dir., White/Red	EA							60		9								4				73			
711-11-123	THRMPLSTC, Standard, White, Solid, 12"	LF	63						159		196								447		179		1044			
711-11-124	THRMPLSTC, Standard, White, Solid, 18"	LF							164		77												241			
711-11-125	THRMPLSTC, Standard, White, Solid, 24"	LF							36		27								60		42		165			
711-11-141	THRMPLSTC, Standard, White, Skip, 6"																									
	2/4 Skip	GM							0.010		0.050		0.001										0.061			
	6/10 Skip	GM							0.020														0.020			
711-11-160	THRMPLSTC, Standard, White, Message																									
	ONLY	EA							8														8			
	PLATT	EA							2														2			
	EXWY	EA							2														2			
711-11-170	THRMPLSTC, Standard, White, Arrows																									
	Left	EA							7		1												8			
	Thru	EA							2														2			
711-12-123	THRMPLSTC, Refurbishment, White, Solid, 12"	LF																								
711-12-125	THRMPLSTC, Refurbishment, White, Solid, 24"	LF																								
711-14-125	THRMPLSTC, Preformed, White, Solid, 24"	LF	48						132		187								405		174		946			
711-14-160	THRMPLSTC, Preformed, White, Message																									
	BIKE	EA							3		5												8			
	SHARROW	EA											4		3		4		3		4		18			
711-14-170	THRMPLSTC, Preformed, White, Arrows (BIKE Thru)	EA							3		5												8			
711-16-101	THRMPLSTC, Std - Other Surfaces, White, Solid, 6"	GM							0.240		0.120		0.001										0.361			
711-16-102	THRMPLSTC, Std - Other Surfaces, White, Solid, 8"	GM							0.080		0.010								0.020				0.110			
711-16-133	THRMPLSTC, Std - Other Surfaces, White, Skip, 12" (3/9)	GM							0.040														0.040			
711-16-201	THRMPLSTC, Std - Other Surfaces, Yellow, Solid, 6"	GM							0.450		0.010								0.036				0.496			
711-17	THRMPLSTC, Remove Existing Pavement Markings	SF							11										176		295		482			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANICAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

TABULATION OF QUANTITIES

SHEET NO. S-2

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL	
			S-15		S-16		S-17		S-18																	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
700-1-11	Single Post Sign, F&I Ground Mount, Up to 12 SF	AS	1		5		1		1														8		21	
700-1-12	Single Post Sign, F&I Ground Mount, 12-20 SF	AS																							2	
700-1-50	Single Post Sign, Relocate	AS			1				1														2		4	
700-1-60	Single Post Sign, Remove	AS	1		3																		4		8	
706-3	Retro Reflective Pavement Markers																									
	Bi-Dir., Yellow	EA	4		8																		12		54	
	Bi-Dir., White/Red	EA																							73	
711-11-123	THRMPLSTC, Standard, White, Solid, 12"	LF			67																		67		1111	
711-11-124	THRMPLSTC, Standard, White, Solid, 18"	LF																							241	
711-11-125	THRMPLSTC, Standard, White, Solid, 24"	LF			37																		37		202	
711-11-141	THRMPLSTC, Standard, White, Skip, 6"																									
	2/4 Skip	GM																							0.061	
	6/10 Skip	GM																							0.020	
711-11-160	THRMPLSTC, Standard, White, Message																									
	ONLY	EA																							8	
	PLATT	EA																							2	
	EXWY	EA																							2	
711-11-170	THRMPLSTC, Standard, White, Arrows																									
	Left	EA																							8	
	Thru	EA																							2	
711-12-123	THRMPLSTC, Refurbishment, White, Solid, 12"	LF			68				98														166		166	
711-12-125	THRMPLSTC, Refurbishment, White, Solid, 24"	LF			74				29														103		103	
711-14-125	THRMPLSTC, Preformed, White, Solid, 24"	LF			56				119														175		1121	
711-14-160	THRMPLSTC, Preformed, White, Message																									
	BIKE	EA																							8	
	SHARROW	EA	4		4		2		1														11		29	
711-14-170	THRMPLSTC, Preformed, White, Arrows (BIKE Thru)	EA																							8	
711-16-101	THRMPLSTC, Std - Other Surfaces, White, Solid, 6"	GM																							0.361	
711-16-102	THRMPLSTC, Std - Other Surfaces, White, Solid, 8"	GM																							0.110	
711-16-133	THRMPLSTC, Std - Other Surfaces, White, Skip, 12" (3/9)	GM																							0.040	
711-16-201	THRMPLSTC, Std - Other Surfaces, Yellow, Solid, 6"	GM	0.030		0.053																		0.083		0.579	
711-17	THRMPLSTC, Remove Existing Pavement Markings	SF	10		44																		54		536	

REVISIONS			
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GREGORY S. TRIM, P.E.
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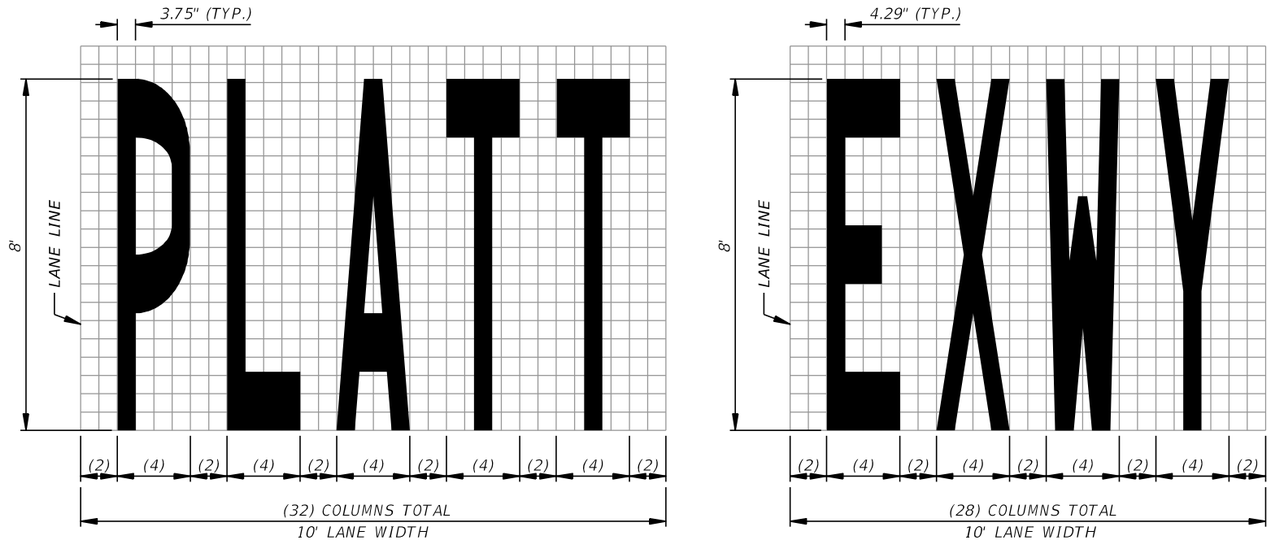
TABULATION OF QUANTITIES

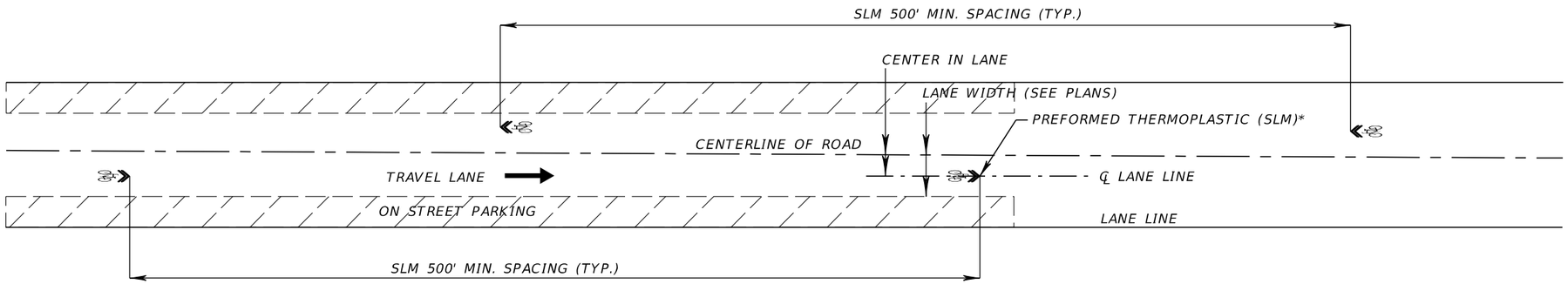
SHEET NO. S-3

SIGNING AND PAVEMENT MARKING NOTES

1. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE REFLECTED IN THE PAY ITEM NO. 102-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
2. ALL SINGLE COLUMN SIGNS WITHIN THE LIMITS OF CLEARING AND GRUBBING SHALL BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS. PAYMENT SHALL BE REFLECTED IN THE PAY ITEM NO. 110-1-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
3. ALL EXISTING SIGNS SHALL BE CLEARED OF ALL VEGETATION WHICH IMPEDES VISIBILITY OF SIGN.
4. RECOMMENDED SHARED LANE MARKING IMMEDIATELY AFTER INTERSECTIONS.
5. IF REMOVAL OF EXISTING MARKINGS IS REQUIRED, IT SHALL BE DONE BY HYDRO-BLASTING OR MICRO-GRINDING AS APPROVED BY THE ENGINEER. HYDRO-BLASTING TO BE USED WHEN REMOVING MARKINGS ON BRICK PAVEMENT.
6. APPLY BICYCLE MARKINGS 5' (MINIMUM) FROM CURB RADIUS RETURN OR AS INDICATED ON THE PLAN.
7. UNDERGROUND SIGNAL CABLE, FIBER OPTIC LINES AND CONDUIT EXIST AT SIGNALIZED INTERSECTIONS. ALL SIGNS WITHIN 50' OF A SIGNALZED INTERSECTION MUST BE MARKED IN WHITE PRIOR TO CONTACTING SUNSHINE AND INSTALLATION.
8. ALL PEDESTRIAN SIGNS ARE TO BE FLUORESCENT YELLOW-GREEN BACKGROUND COLOR.



PAVEMENT MARKING DETAILS



SHARED LANE MARKING (SLM) PLACEMENT
SLM PLACEMENT WITH ON STREET PARKING
INDEX NO. 17347

*RECOMMENDED PLACEMENT FOR SHARED LANE MARKING (SLM):
IMMEDIATELY AFTER INTERSECTIONS AND AT A MAXIMUM SPACING OF 500 FT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
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TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANICAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

GENERAL NOTES

SHEET NO. S-4

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (1)

SHEET NO. S-5

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
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TRANSPORTATION DEPARTMENT

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N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (2)

SHEET NO. S-6

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
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CITY OF TAMPA
TRANSPORTATION DEPARTMENT

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432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (3)

SHEET NO. S-7

N. WILLOW AVENUE

W. PLATT STREET

MATCH LINE AT STA. 24+80

MATCH LINE AT STA. 30+40

R4-11
30"x30"
STA. 25+29
700-1-11 1 AS

MAY USE FULL LANE

TO REMAIN

TO REMAIN

ANYTIME

Exist. LA R/W

Span Wire

Conc. Walk

REMOVAL OF EXIST. PAVT. MARKING (GUIDELINE SKIP) (11 SF)

N 0°44'59" E

N 0°34'05" E

6" WHITE (2'-4' SKIP) 35' R

TO REMAIN

ONE WAY

ONE WAY

TO REMAIN

ANYTIME

TO REMAIN

Exist. R/W

WEST

EAST

SPEEDWAY

SPEEDWAY

TO REMAIN

R3-8
90"x30"
D3-1 (3)
12"x30"
STA. 27+57
700-1-12 1 AS

ONLY

ONLY

EXWY

PLATT

WILLOW

R3-17
24"x18"
R3-17bp
24"x8"
STA. 26+71
700-1-11 1 AS

ONE WAY

ONE WAY

BIKE LANE ENDS

TO REMAIN

8" WHITE W/BI-DIR. W/R RPM'S @ 20' O.C.

6" WHITE W/BI-DIR. W/R RPM'S @ 20' O.C.

6" WHITE (TYP.)

Exist. LA R/W

Conc. Columns(Typ.)

2' Conc. C & G

Conc. Walk

700-1-60 1 AS
TO BE REMOVED

R3-8
90"x30"
D3-1 (3)
12"x30"
STA. 29+74
700-1-12 1 AS

ONLY

ONLY

EXWY

PLATT

WILLOW

+38

+63

24" WHITE

10' TYP.

℄ Survey

+44

+84

+64

+74

+00

+53

+54

+14

12" WHITE (3'-9" SKIP) W/ BI-DIR. W/R RPM'S @ 12' O.C.

6" WHITE (10'-30' SKIP) W/ BI-DIR. W/R RPM'S @ 40' O.C.

DIRECTIONAL ARROWS (TYP.)

PREFORMED 24" WHITE SPECIAL EMPHASIS CROSSWALK FDOT INDEX NO. 17346 (TYP.)

12" WHITE (TYP.)

MATCH TO EXIST. PAVT. MARKINGS

AHEAD

BIKE LANE

PROPOSED PAVEMENT MESSAGES (TYP.)

6" DBL. YELLOW W/BI-DIR. YELLOW RPM'S @ 40' O.C.

PREFORMED BIKE ARROWS & MESSAGES (TYP.)

Exist. LA R/W

Conc. Columns(Typ.)

18" WHITE @ 10' O.C.

8" WHITE W/BI-DIR. W/R RPM'S @ 10' O.C.

R3-17
24"x18"
R3-17ap
24"x8"
STA. 26+63
700-1-11 1 AS

700-1-60 1 AS
TO BE REMOVED

0 10 40
Feet

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
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TAMPA, FL 33607
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FINANICAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (4)

SHEET NO. S-8

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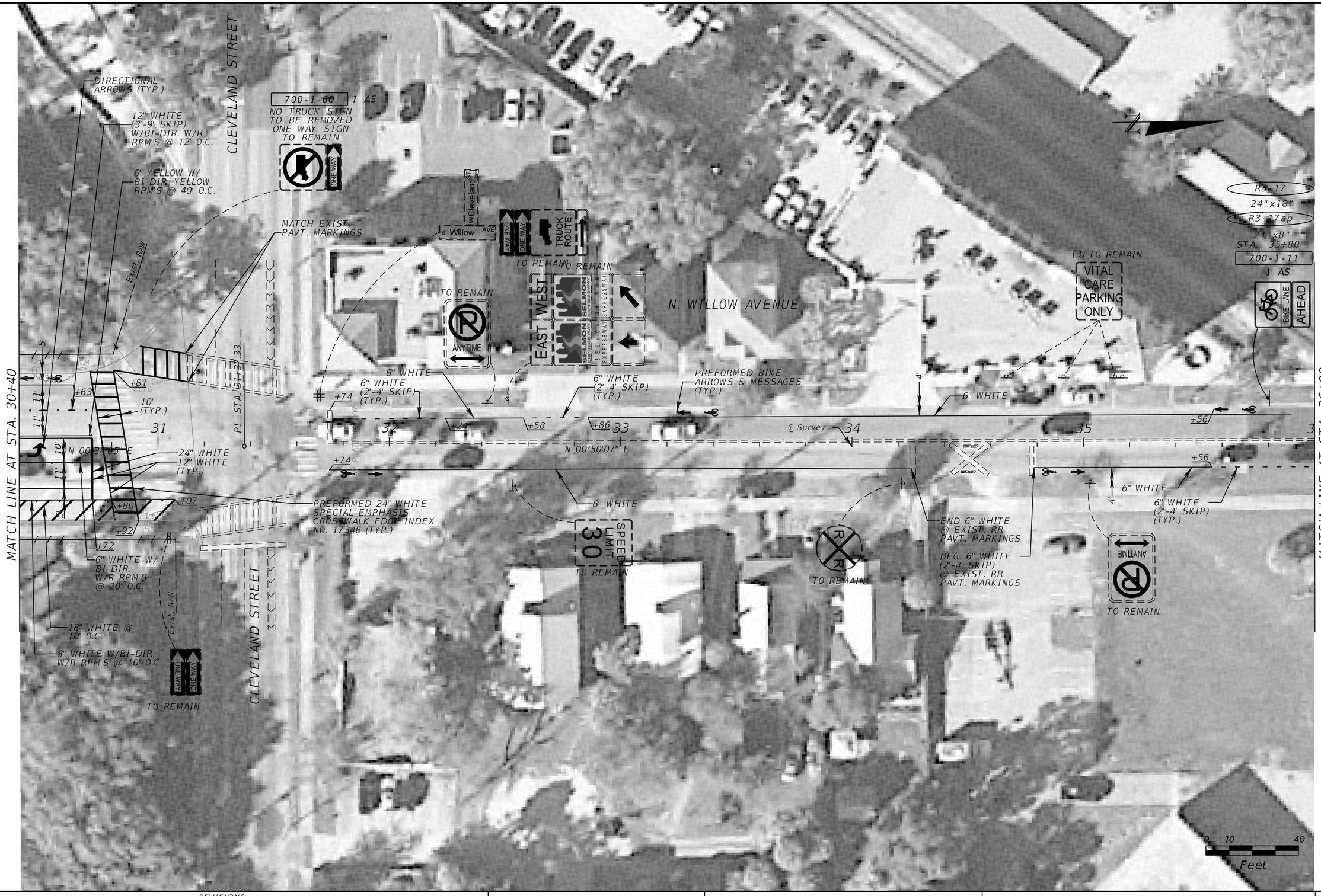

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
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2709 N. ROCKY POINT DR., SUITE 104
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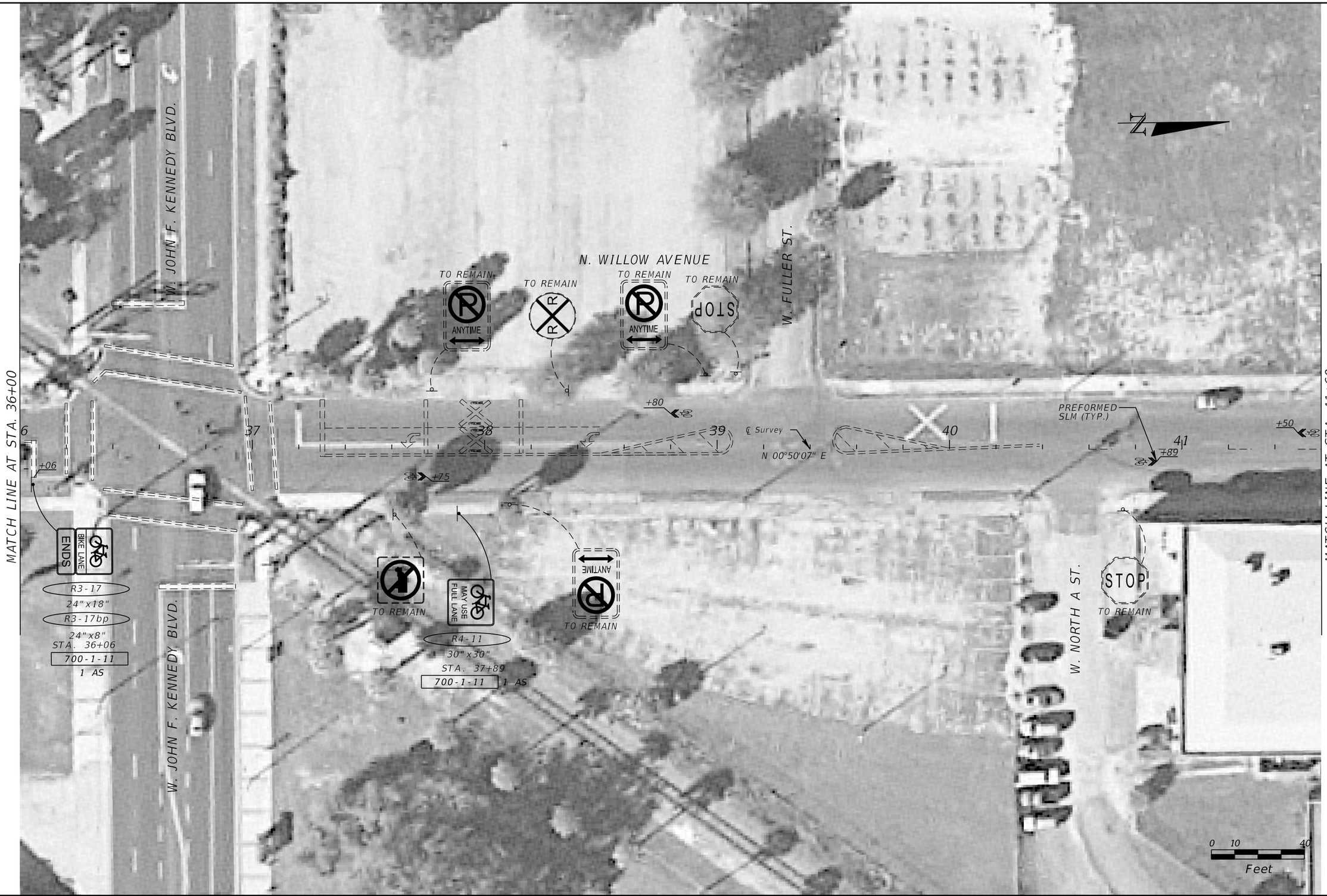
CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANICAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (5)

SHEET NO.
S-9



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
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TRANSPORTATION DEPARTMENT

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432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (6)

SHEET NO. S-10

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
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CITY OF TAMPA
TRANSPORTATION DEPARTMENT

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N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (7)

SHEET NO.
S-11

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
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2709 N. ROCKY POINT DR., SUITE 104
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N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (8)

SHEET NO. S-12

MATCH LINE AT STA. 52+80

MATCH LINE AT STA. 58+40

+32
MATCH EXIST.

6" DBL. YELLOW W/BI-DIR. YELLOW RPMS @ 40' O.C.

REMOVAL OF EXIST. PAVT. MARKING (18" YELLOW & 6" DBL. YELLOW, 128 SF)

W. CASS STREET

TO REMAIN (ON CONC. POLE)

TRUCK ROUTE

N. WILLOW AVENUE

W. LEMON STREET

TO REMAIN

STOP

W Lemon ST

N Willow AVE

Exist. R/W

R4-11
30"x30"
STA. 54+80
700-1-11
1 AS

MAY USE FULL LANE

TO REMAIN

ANYTIME

TO REMAIN

SPEED LIMIT 30

W Cass ST

N Willow AVE

REFURBISH EXIST. PAVT. MARKING (24" WHITE)

TO REMAIN

Exist. R/W

Asph.

Pedestrian Walk Post

Sign

Light Pole

TSV

Conc.

Drive

Asph.

PI STA. 54+70.06

+36

+08

+63

+71

REFURBISH EXIST. PAVT. MARKING (12" WHITE)

24" WHITE (TYP.)

REMOVAL OF EXIST. PAVT. MARKING (24" WHITE & 6" DBL. YELLOW, 48 SF)

Exist. R/W

+66

+80

53

54

55

56

57

58

℄ Survey

N 00°50'07" E

N 00°48'41" E

+80

PREFORMED SLM (TYP.)

+10

10' (TYP.)

+83

+80

+81

+22

+11

+57

8" WHITE

12" WHITE (TYP.)

REFURBISH EXIST. PAVT. MARKING (24" WHITE)

BI-DIR WAR RPM'S @ 20' O.C.

+88

Extension of Collins Addition

1-Story Masonry Lot 1, Block 21

Pedestrian Walk Post

Face of Bldg.

Exist. R/W

Exist. R/W

0.5' Conc. Curb

0.5' Conc. Curb

W. CASS STREET

PREFORMED 24" WHITE SPECIAL EMPHASIS CROSSWALK FDOT INDEX NO. 17346 (TYP.)

TO BE RELOC.
STA. 56+61
700-1-50
(ON POLE)

Lot 5, Block 30

Lot 4, Block 30

Lot 2, Block 30

Addition

R1-2
36"x36"x36"
STA. 54+80
700-1-11
1 AS

R4-11
30"x30"
STA. 56+70
700-1-11
1 AS

MAY USE FULL LANE

0 10 40
Feet

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
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N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (9)

SHEET NO.
S-13

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
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432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (10)

SHEET NO. S-14

aepperson 3/9/2017 4:38:47 PM Y:\13-05-1893 RFP 13 D 000027 4 Walk Bike Projs Design Willow Av\432717100000\signing

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
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432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (11)

SHEET NO. S-15

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

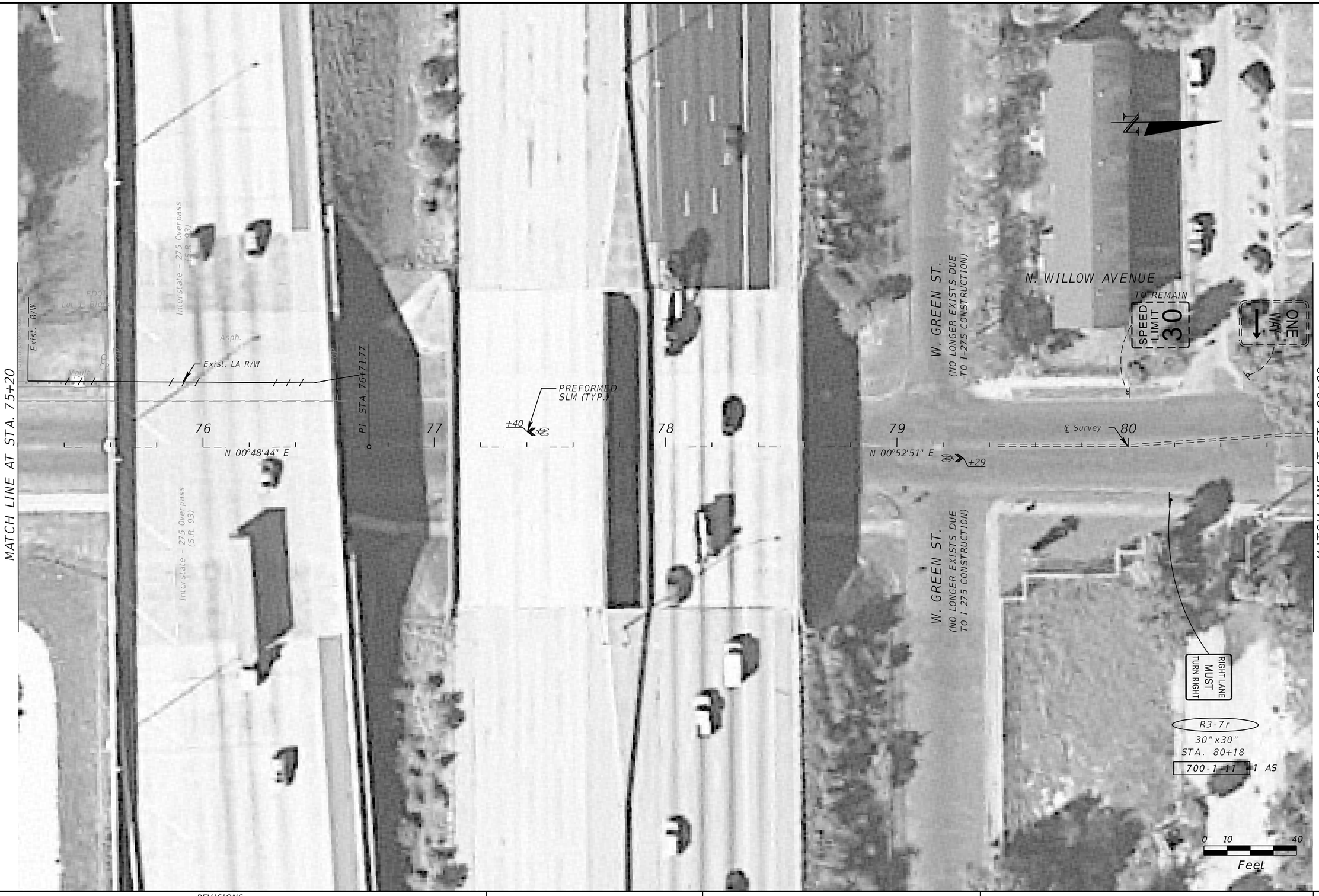
CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANICAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE
SIGNING AND PAVEMENT
MARKING PLANS (12)

SHEET NO.
S-16

aepperson 3/9/2017 4:39:02 PM Y:\13-05-1893 RFP 13 D 000027 4 Walk Bike Projs Design Willow Av\43271710000\signing



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANICAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (13)

SHEET NO.
S-17

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANICAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE SIGNING AND PAVEMENT MARKING PLANS (14)

SHEET NO. S-18

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