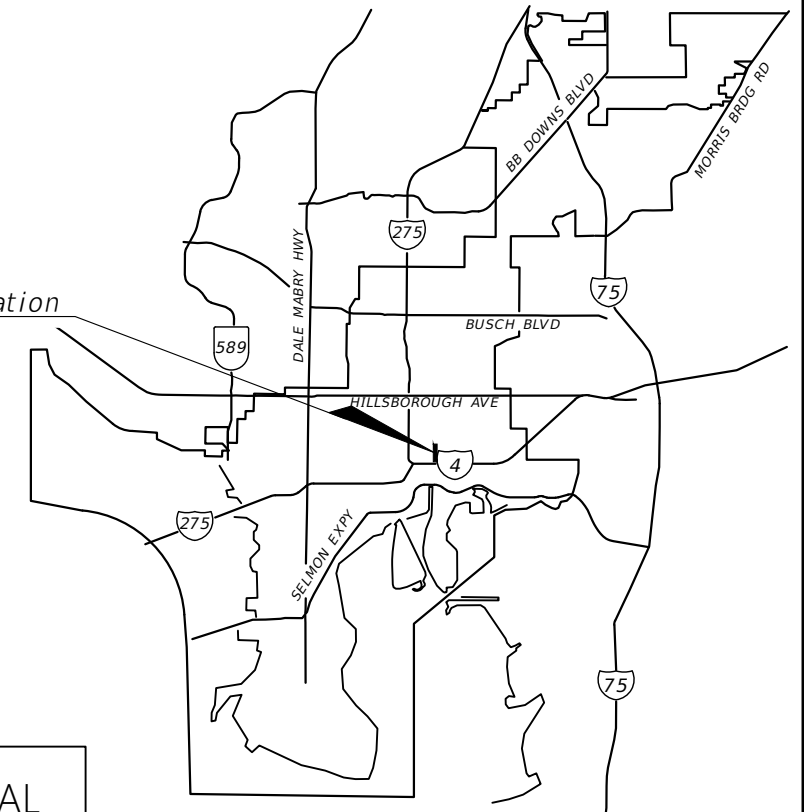


**CITY OF TAMPA
MOBILITY DEPARTMENT**

**QUICKBUILD PROJECT
N AVENIDA REPUBLICA DE CUBA
14TH STREET
COLUMBUS DR TO LAKE AVE**

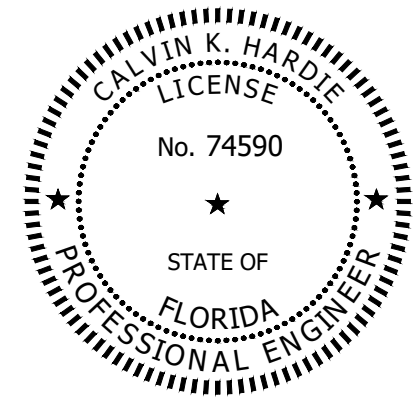
TOTAL PROJECT LENGTH 1 MILE

Project Location



Ending of Project

FINAL SUBMITTAL
04/13//2023



This item has been electronically signed and sealed by Calvin K. Hardie, P.E. using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ENGINEER OF RECORD:

CALVIN K. HARDIE
P.E. NO. 74590
CITY OF TAMPA PROFESSIONAL ENGINEER
TRANSPORTATION AND STORMWATER
SERVICES DEPARTMENT
306 E JACKSON ST
TAMPA, FLORIDA 33602
CONTRACT NO.:
VENDOR NO.:
CERTIFICATE OF AUTHORIZATION NO.:

SIGNING AND PAVEMENT MARKING PLANS	
SHEET	DESCRIPTION
1	KEY SHEET & VICINITY MAP
2	TABULATION OF QUANTITIES
3	NOTES
4	DETAILS
5 - 12	SIGNING AND PAVEMENT MARKING PLANS

DESIGN SPEED LIMIT		
	POSTED MPH	DESIGN MPH
N AVENIDA REPUBLICA DE CUBA	30	30

E LAKE AVE		
E 29th AVE		
E 28th AVE		
E 27th AVE		
E 26th AVE		
E 25th AVE		
E 24th AVE	CUBA	
E 23rd AVE	DE	
E 22nd AVE	REPUBLICA	
E 21st AVE	DE	
HOLMES AVE	AVENIDA	
E 20th AVE	REPUBLICA	
E 19th AVE	DE	
E 18th AVE	AVENIDA	
E 17th AVE	REPUBLICA	
E COLUMBUS AVE	DE	
E 15th AVE	AVENIDA	
E 14th AVE	REPUBLICA	
I-4 (SR-400)		

Beginning of Project

GOVERNING STANDARDS AND SPECIFICATIONS
FLORIDA DEPARTMENT OF TRANSPORTATION FY
2022-23 DESIGN STANDARDS AND REVISED
INDEX DRAWING AS APPENDED HEREIN, AND
FY 2022-23 STANDARD SPECIFICATIONS FOR
ROAD AND BRIDGE CONSTRUCTION, AS
AMENDED BY CONTRACT DOCUMENTS AND THE
CITY OF TAMPA.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	FY 2023	KEY

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

TABULATION OF QUANTITIES

Pay Item Number	Pay Item Description	Unit of Measure	Total Quantities
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	LF	7675
0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	LF	2176
0711 16401	THERMOPLASTIC, STANDARD-OTHER SURFACES, BLUE, SOLID, 6"	LF	37
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	1320
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF	98
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF	2992
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	LF	116
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	1637
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	508
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	270
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (BIKE SYMBOL)	EA	17
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW (BIKE LANE ARROW)	EA	17
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (BIKE, BUS, ONLY, WHEELCHAIR SYMBOL)	EA	11
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW (THRU, LEFT, THRU LEFT, THRU RIGHT ARROWS)	EA	8
0705 11 1	DELINEATORS FLEXIBLE TUBLAR, INSTALL, WHITE 36"	EA	147
0523 1 3	PATTERNED PAVEMENT, VEHICULAR AREAS, GREEN BIKE LANE	SY	753
0706 1 1	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW/RED	EA	162
0706 1 1	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE/RED	EA	130
0706 1 1	RETRO-REFLECTIVE PAVEMENT MARKERS, BLUE	EA	3
700 1 60	SIGN POST / ASSEMBLY, REMOVE, UP TO 12 SF	EA	17
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1
971 703	LOW MODULAR RUBBER BARRIERS (FOR BIKE LANES)	EA	36
711-17	REMOVE EXISTING SOLID 6" WHITE, 6" (2-4) SKIP WHITE GUIDE LINE	LF	75
705-11-1	DELINEATORS FOR MICRO-MOBILITY HUB, INSTALL, YELLOW 36"	EA	6
	QWICK KURB	EA	108
	MILLING & RESURFACING	SY	12,660
	MICROMOBILITY / SCOOTERS	EA	3

REVISIONS				CALVIN K. HARDIE, P.E. P.E. LICENSE NUMBER 74590 CITY OF TAMPA 306 E. JACKSON STREET TAMPA, FL 33602 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF TAMPA MOBILITY DEPARTMENT			TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		02
----	----	----	----		14TH STREET	HILLSBOROUGH	0000		

GENERAL NOTES

1. CITY OF TAMPA STANDARD DRAWINGS ARE AVAILABLE AT THE CITY HALL ANNEX, 306 E. JACKSON STREET, 6TH FLOOR, EAST WING.
2. CALL SUNSHINE (1-800-432-4770) AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. WHEN IN CONFLICT, UTILITY POLES, GAS LINES, UNDERGROUND ELECTRIC AND TELEPHONE CABLES WILL BE RELOCATED BY THE RESPECTIVE UTILITY OWNERS AT THEIR OWN EXPENSE AS DIRECTED BY THE ENGINEER.
4. SPECIAL CARE MUST BE TAKEN TO PROTECT WATER LINES DURING CONSTRUCTION. PROVIDE SUPPORTS AS NECESSARY.
5. STREET SIGNS AND STREET MARKERS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. ANY LOST OR DAMAGED SIGNS OR MARKERS SHALL BE REPLACED.
6. THIS PROJECT WAS NOT SURVEYED. ALL STATIONS WERE GENERATED THROUGH MAP INFORMATION. SIGN LOCATIONS WITH OFFSETS WERE DEVELOPED BY FIELD MEASUREMENTS. FIELD ADJUSTMENTS MAY BE REQUIRED BY THE ENGINEER FOR SIGNING AND PAVEMENT MARKING INSTALLATIONS.

TRAFFIC CONTROL NOTES:

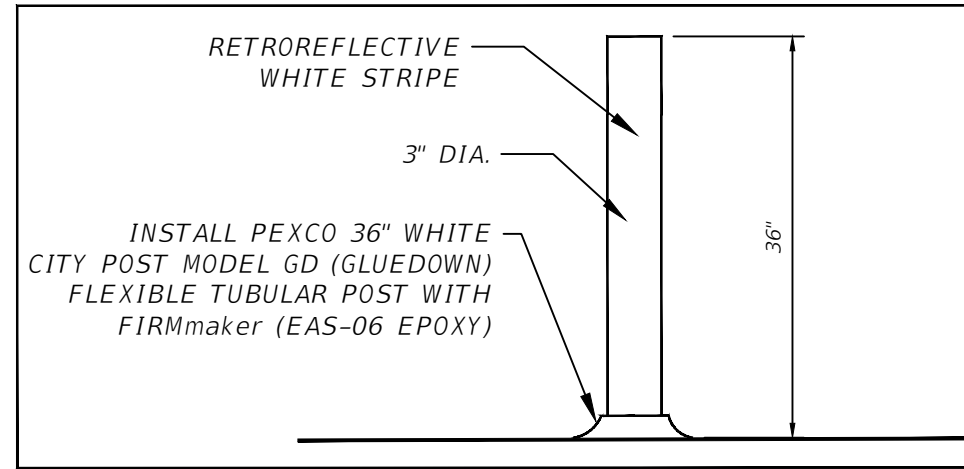
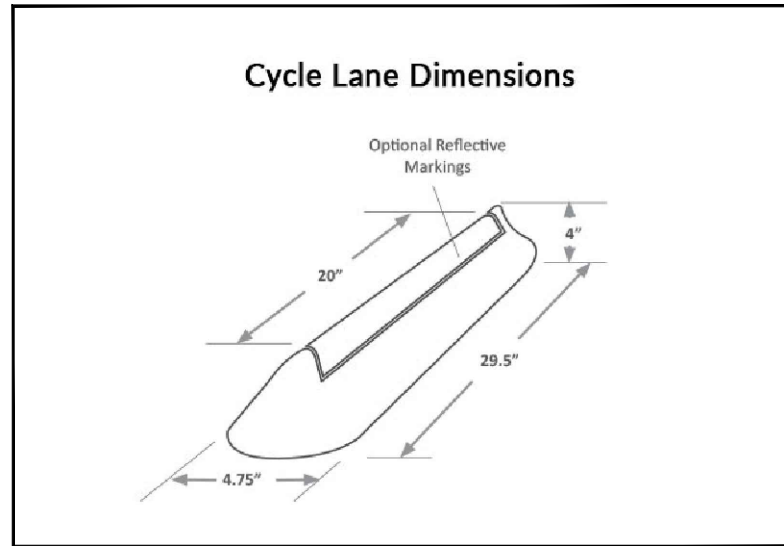
1. MILLING AND RESURFACING ACTIVITY SHALL BE IN COMPLIANCE WITH FDOT STANDARD INDEX IR102-000 SERIES.
2. SET UP WORK ZONE SIGNS IN ACCORDANCE WITH THE APPROPRIATE FDOT STANDARD INDEX 600 SERIES.
3. TRAFFIC FLOW SHALL BE MAINTAINED ALONG AFFECTED ROADWAYS AT ALL TIMES.
4. POSTED SPEED LIMITS SHALL BE MAINTAINED AT ALL TIMES.
5. ACCESS TO BUSINESSES AND/OR RESIDENTIAL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
6. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED AT ALL TIMES.
7. DAYTIME WORK ONLY, THE CITY OF TAMPA TRAFFIC ENGINEER MUST APPROVE NIGHT WORK AND LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE. NO WORK CAN BE DONE ON FUNCTIONAL CLASSIFIED ROADS DURING THE HOURS OF 7AM TO 9AM AND FROM 4PM TO 6PM WITHOUT APPROVAL OF THE TRAFFIC ENGINEER.
8. THE CONTRACTOR SHALL ADHERE TO FDOT STANDARD INDEX IR102-000 WITH REGARDS TO DROP OFFS IN WORK ZONES.

SIGNING AND PAVEMENT MARKING GENERAL NOTES:

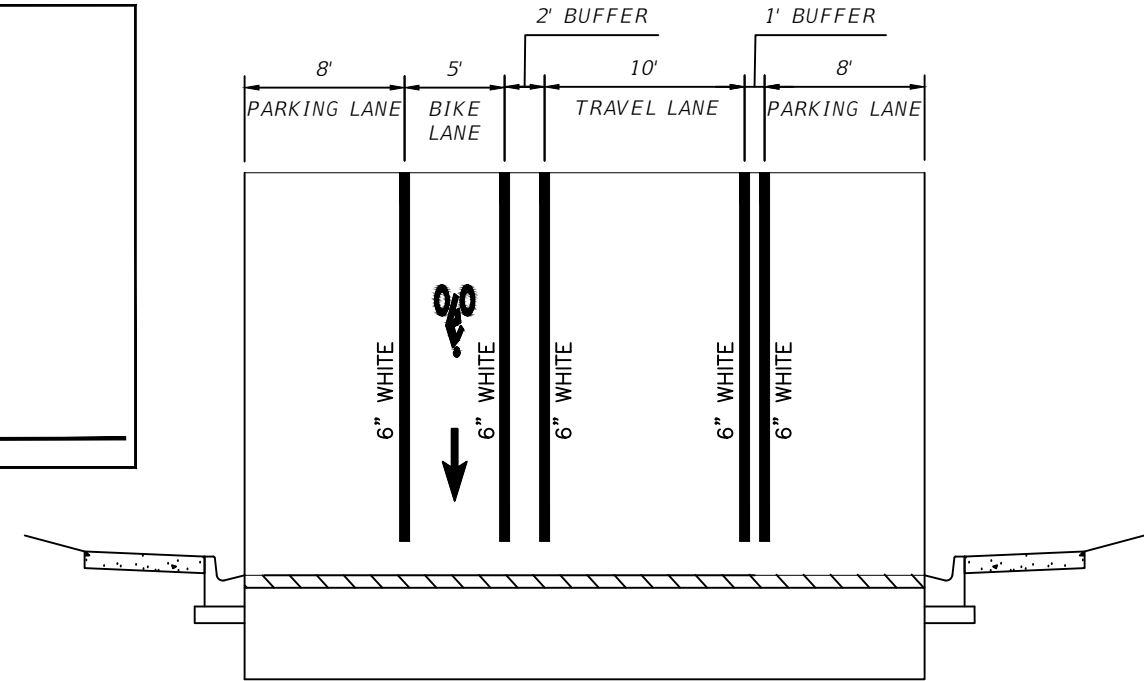
1. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS WITH THE APPROPRIATE FDOT DESIGN STANDARD INDEX AND MUTCD ADHERENCE. ALL PAVEMENT MARKINGS SHALL BE REINSTALLED ACCORDING TO EXISTING MARKINGS UNLESS OTHERWISE NOTED.
2. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
3. THE SIGN AND PAVEMENT MARKING LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
4. ANY EXISTING SIGN THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION.
5. SPECIAL PAVEMENT MARKINGS ARE REQUIRED AROUND CURB INLETS OR AROUND DRAIN GRATES. SEE SIGNING AND PAVEMENT MARKING SPECIAL DETAIL SHEET, IF APPLICABLE
6. REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH CURRENT FDOT STANDARD INDEX 706-001.
7. INSTALL PROPOSED SIGNS ACCORDING TO FDOT INDEX NO. 700-101 (TYPICAL SECTIONS FOR PLACEMENT OF SINGLE & MULTI-COLUMN SIGNS) UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER.
8. WHEN UPGRADING OR INSTALLING PEDESTRIAN CROSSWALKS, PED RAMPS SHALL BE MADE ADA COMPLIANT IF NEEDED.
9. EXISTING SIGNS ARE UNLESS OTHERWISE NOTED.
10. ALL EXISTING TRAFFIC SIGNS MUST BE MAINTAINED DURING CONSTRUCTION.
11. ALL TRAFFIC SIGN POSTS MUST BE COMPATIBLE (MAKE, DESIGN) WITH POSTS NOW IN USE BY THE HILLSBOROUGH COUNTY PUBLIC WORKS TRAFFIC OPERATIONS.
12. SIGN LOCATIONS SHOWN ARE APPROXIMATE. ANY FIELD ADJUSTMENT MUST BE AT THE DIRECTION OF THE CONSTRUCTION PROJECT MANAGER AND/OR THE ENGINEER OF RECORD.
13. "SHARE THE ROAD" MARKINGS WILL BE INSTALLED WITH PRE-FORMED THERMOPLASTIC PAVEMENT MARKINGS.
14. RECOMMENDED SPACING FOR SHARED LANE MARKING: IMMEDIATELY AFTER INTERSECTIONS AND AT A MAXIMUM SPACING OF 250 FEET.
15. APPLY BICYCLE MARKINGS 5' (MINIMUM) FROM CURB RADIUS RETURN OR AS INDICATED ON THE PLAN.
16. INSTALL QWICK KURB AT EACH INTERSECTION THAT HAS CROSS HATCHING, CAN BE FIELD ADJUSTED AS NEEDED

REVISIONS				CALVIN K. HARDIE, P.E. P.E. LICENSE NUMBER 74590 CITY OF TAMPA 306 E. JACKSON STREET TAMPA, FL 33602 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF TAMPA MOBILITY DEPARTMENT			SHEET NO. 03
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
----	----				14TH STREET	HILLSBOROUGH	0000	

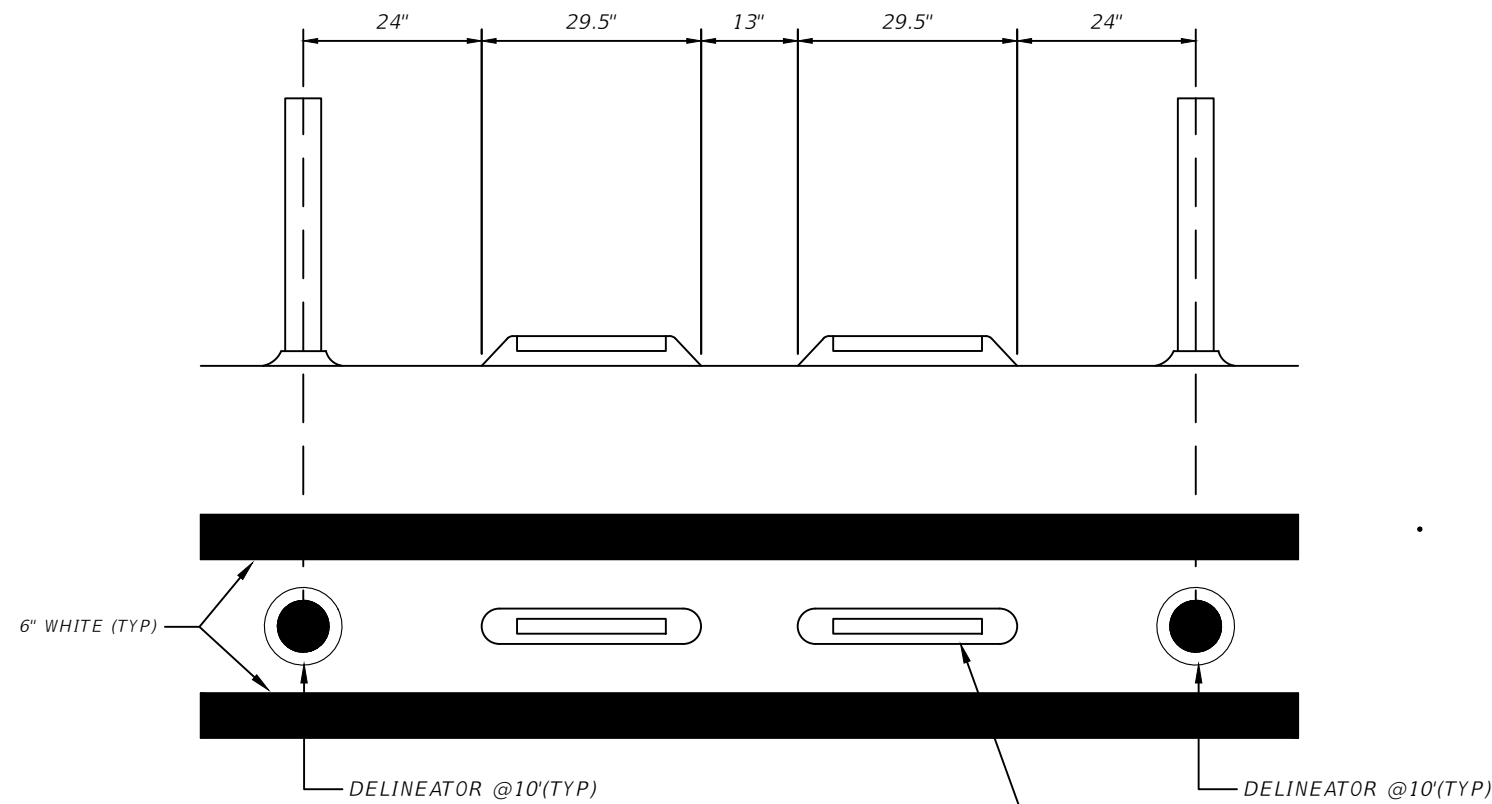
NOTES



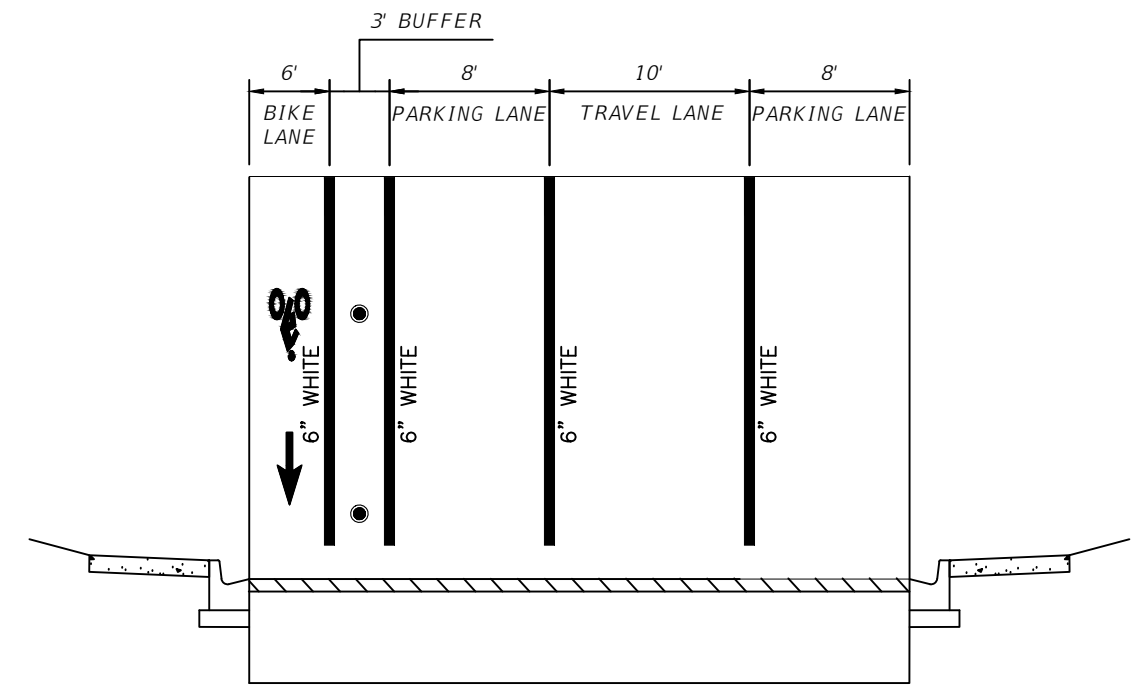
DELINEATOR PROFILE DETAIL
N.T.S.



TYPICAL SECTION
14TH STREET NORTH OF 26TH AVE
N.T.S.



CYCLE LANE BUFFER DETAIL
PLAN AND PROFILE VIEW
N.T.S.



TYPICAL SECTION
14TH STREET FROM COLUMBUS DR TO 26TH AVE
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

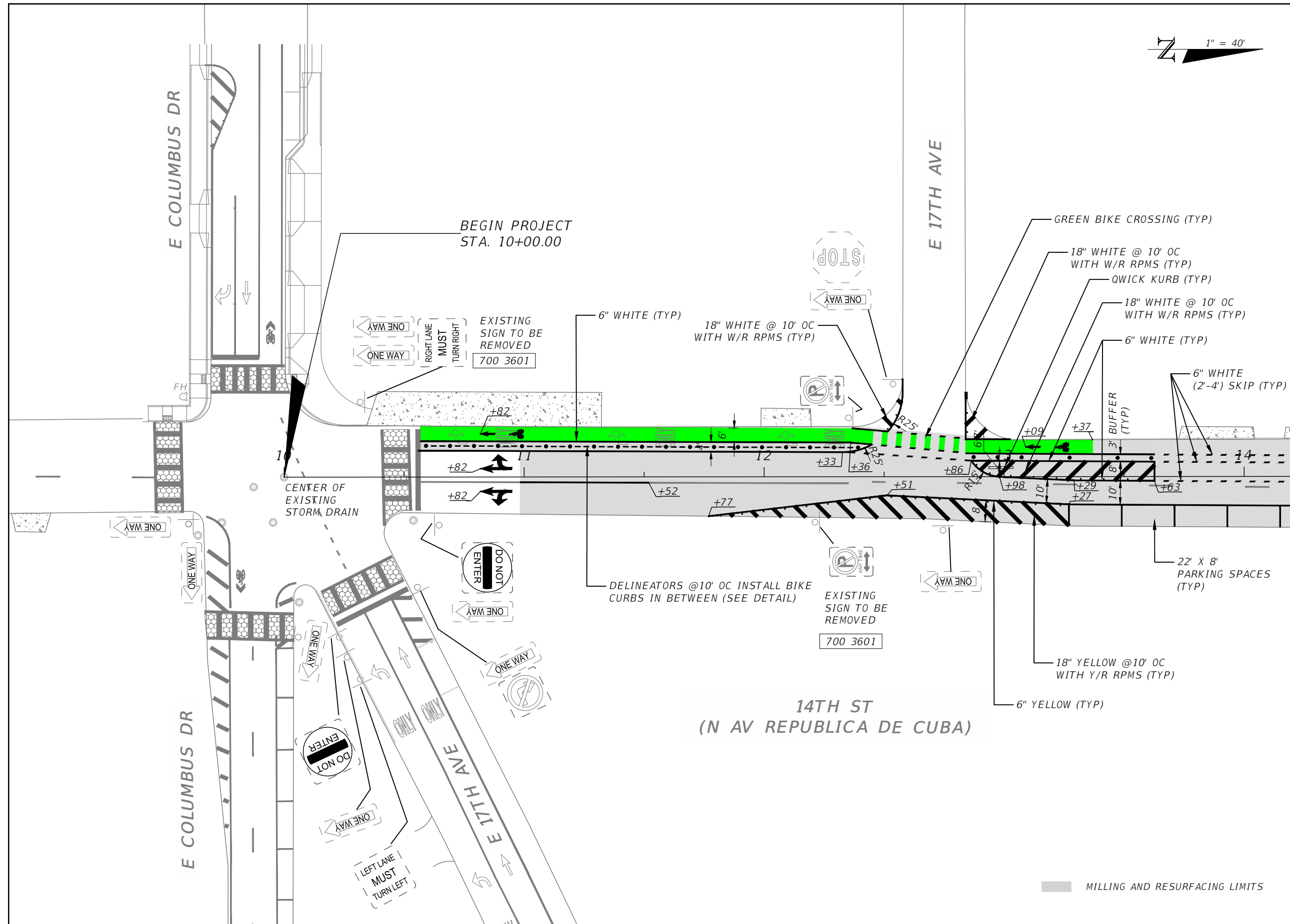
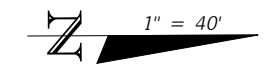
CALVIN K. HARDIE, P.E.
P.E. LICENSE NUMBER 74590
CITY OF TAMPA
306 E. JACKSON STREET
TAMPA, FL 33602
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

DETAILS

SHEET NO.
04

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 14+21.19

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CALVIN K. HARDIE, P.E.
 P.E. LICENSE NUMBER 74590
 CITY OF TAMPA
 306 E. JACKSON STREET
 TAMPA, FL 33602
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

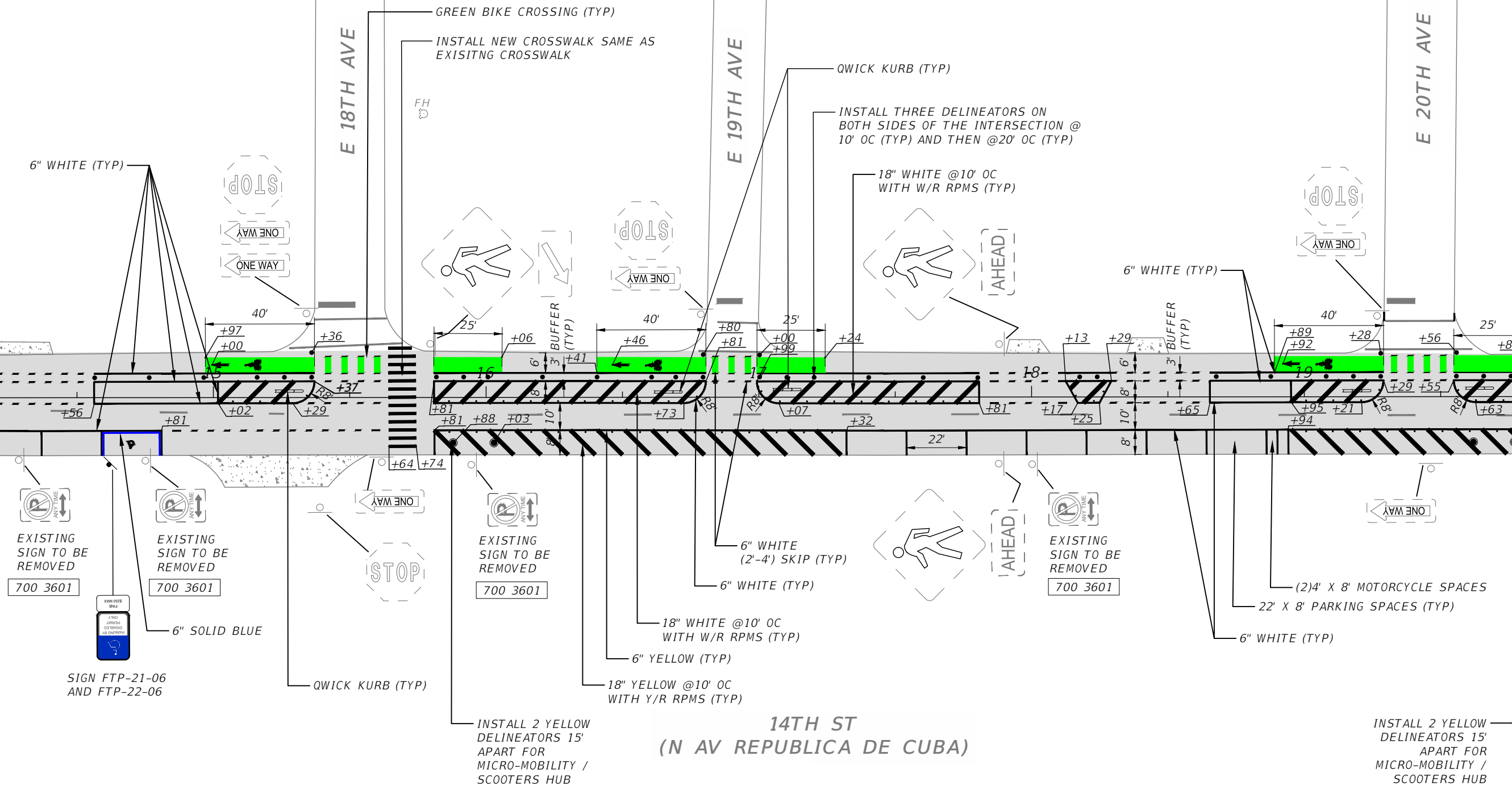
**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET NO.
05

N 1" = 40'

MATCHLINE STA. - 14+21.19

MATCHLINE STA. - 19+84.10



■ MILLING AND RESURFACING LIMITS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

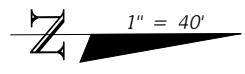
CALVIN K. HARDIE, P.E.
 P.E. LICENSE NUMBER 74590
 CITY OF TAMPA
 306 E. JACKSON STREET
 TAMPA, FL 33602
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

**SIGNING AND PAVEMENT
MARKING PLAN**

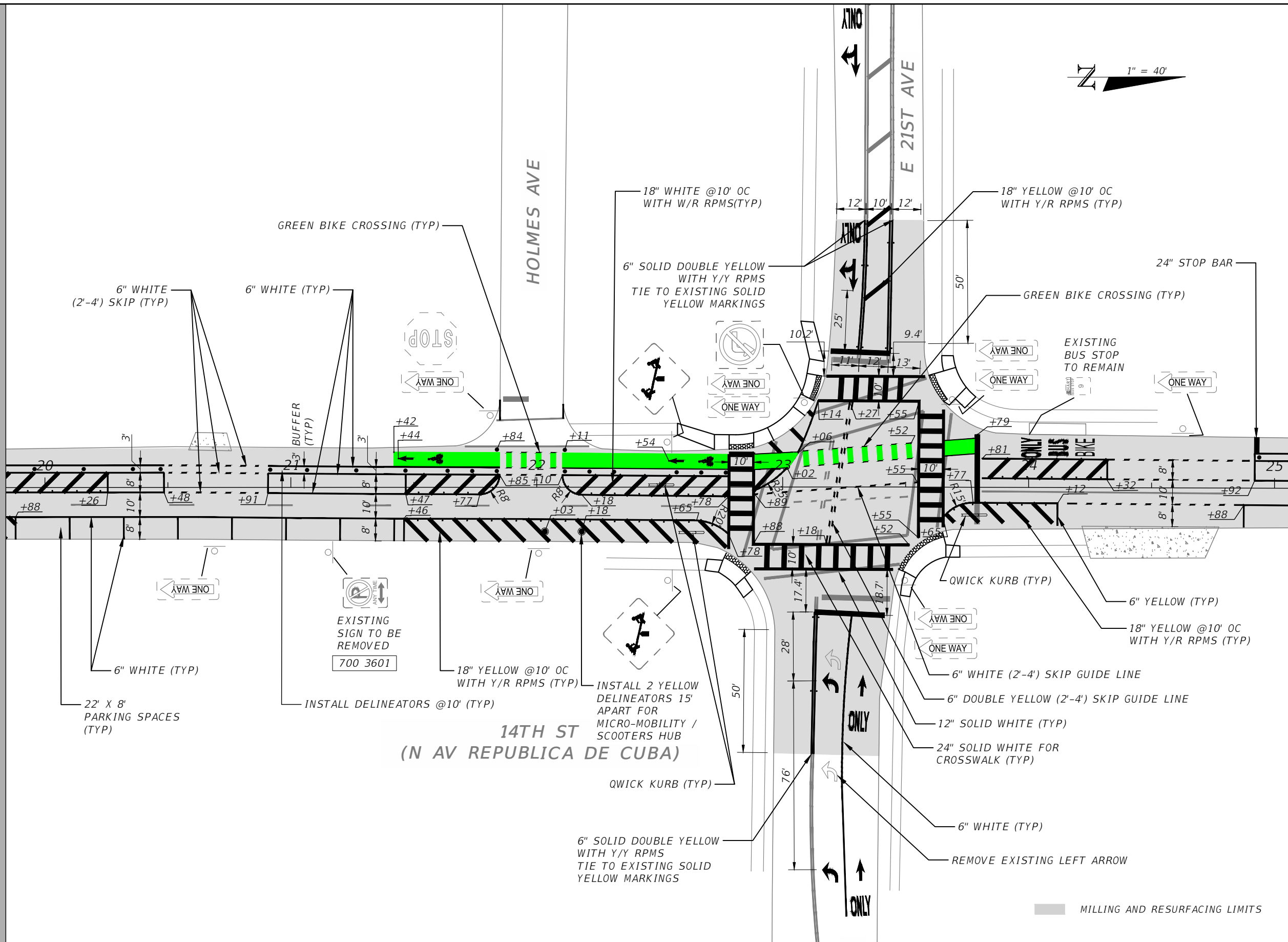
SHEET NO.
06

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 19+84.10

MATCHLINE STA. - 25+07.63



**14TH ST
(N AV REPUBLICA DE CUBA)**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

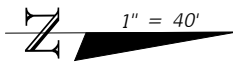
CALVIN K. HARDIE, P.E.
P.E. LICENSE NUMBER 74590
CITY OF TAMPA
306 E. JACKSON STREET
TAMPA, FL 33602
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

**SIGNING AND PAVEMENT
MARKING PLAN**

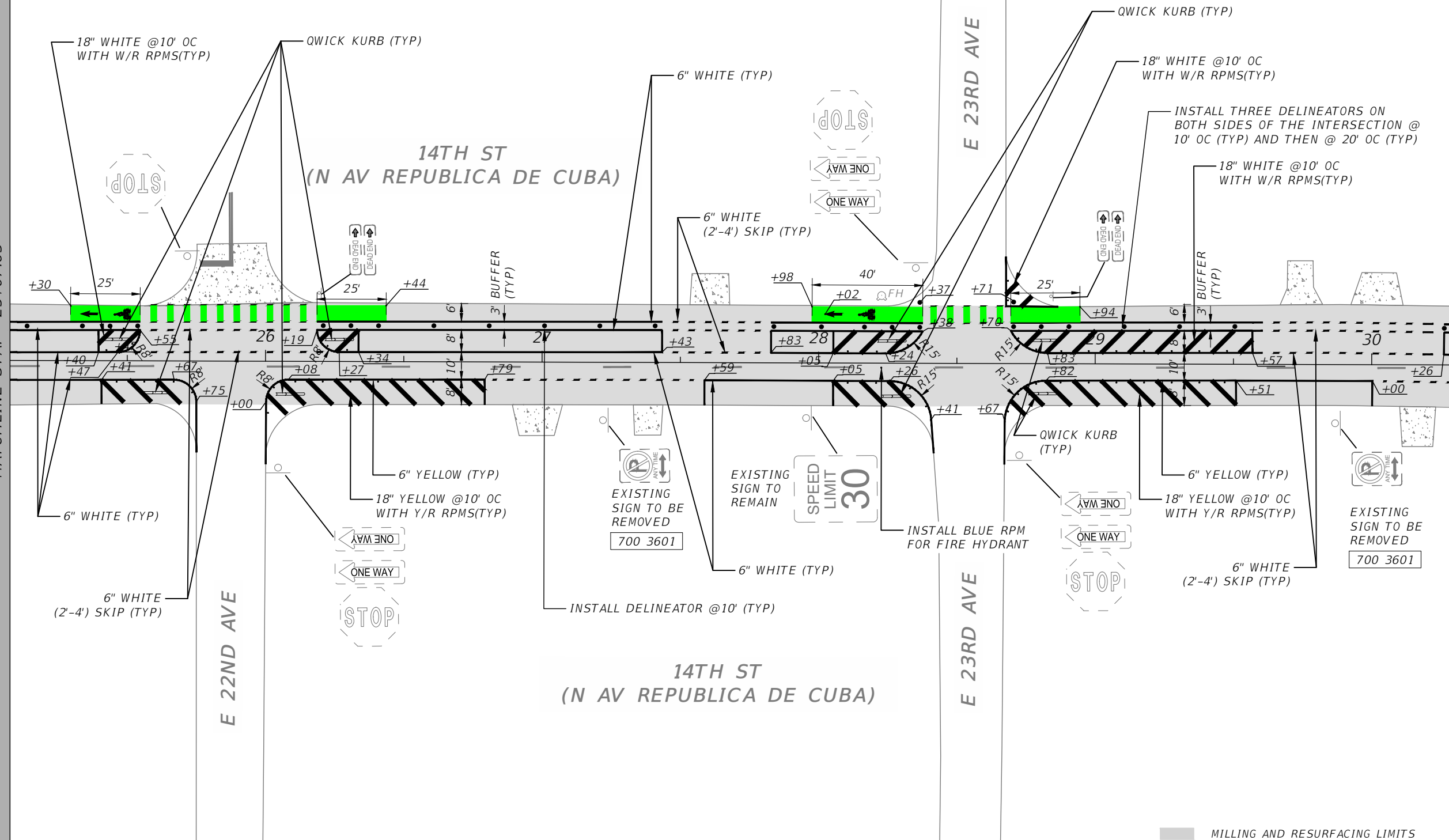
SHEET NO.
07

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 25+07.63

MATCHLINE STA. - 30+29.20



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

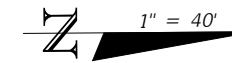
CALVIN K. HARDIE, P.E.
 P.E. LICENSE NUMBER 74590
 CITY OF TAMPA
 306 E. JACKSON STREET
 TAMPA, FL 33602
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

**SIGNING AND PAVEMENT
MARKING PLAN**

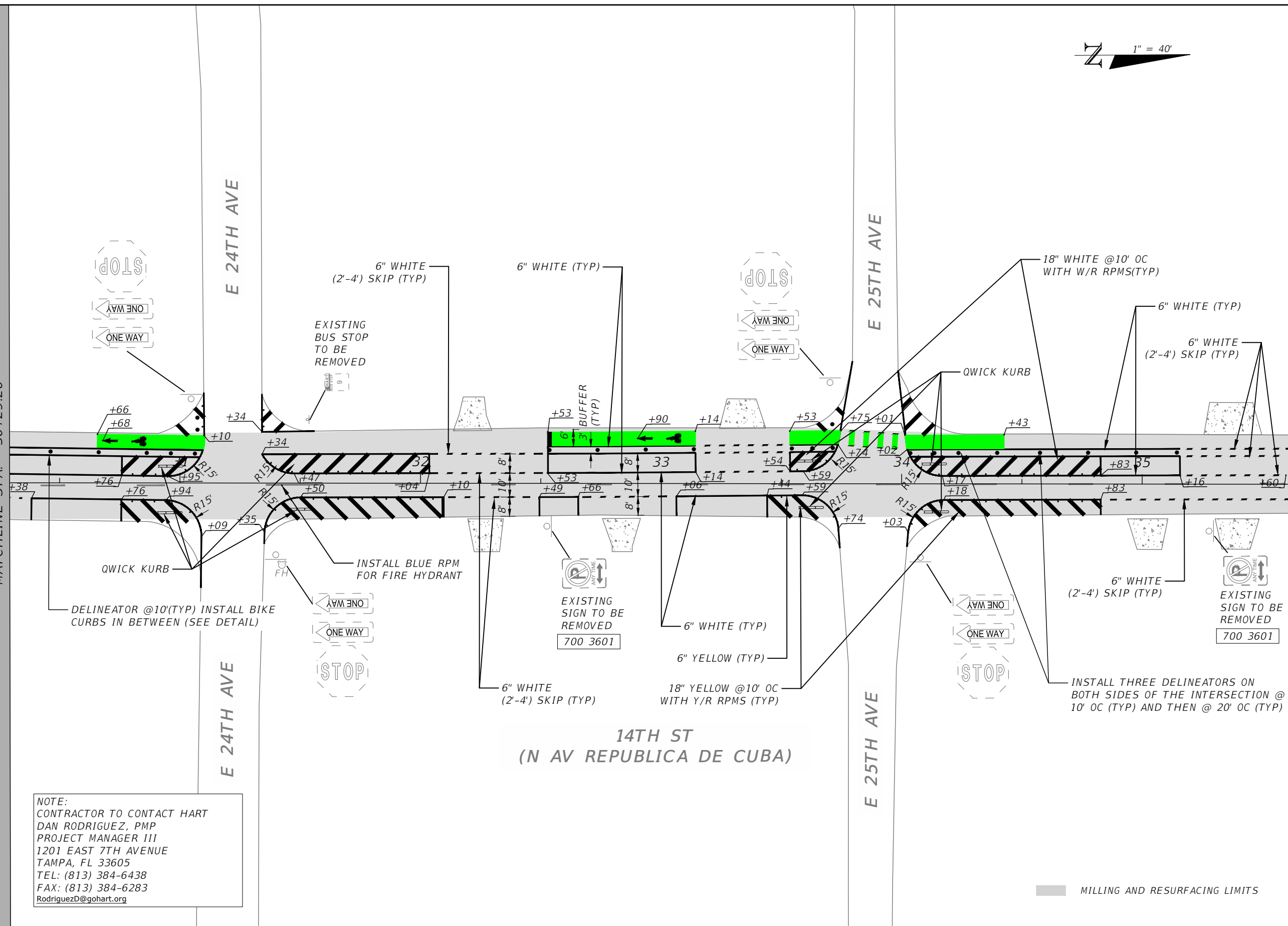
SHEET NO.
08

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 30+29.20

MATCHLINE STA. - 35+65.18



NOTE:
 CONTRACTOR TO CONTACT HART
 DAN RODRIGUEZ, PMP
 PROJECT MANAGER III
 1201 EAST 7TH AVENUE
 TAMPA, FL 33605
 TEL: (813) 384-6438
 FAX: (813) 384-6283
 RodriguezD@gohart.org

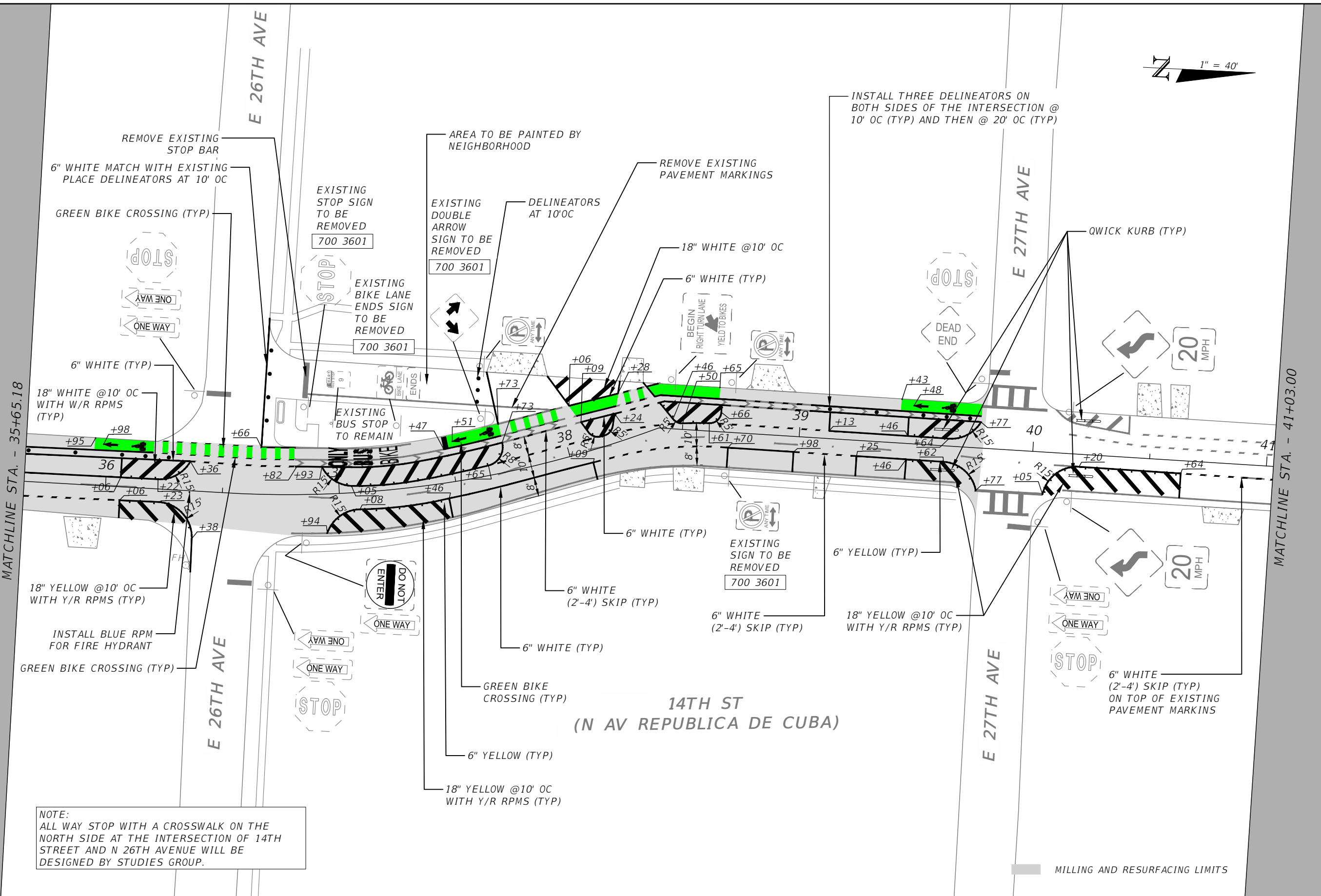
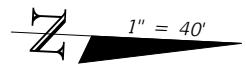
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CALVIN K. HARDIE, P.E.
 P.E. LICENSE NUMBER 74590
 CITY OF TAMPA
 306 E. JACKSON STREET
 TAMPA, FL 33602
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

**SIGNING AND PAVEMENT
MARKING PLAN**

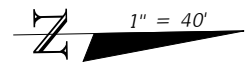
SHEET NO.
09



NOTE:
ALL WAY STOP WITH A CROSSWALK ON THE NORTH SIDE AT THE INTERSECTION OF 14TH STREET AND N 26TH AVENUE WILL BE DESIGNED BY STUDIES GROUP.

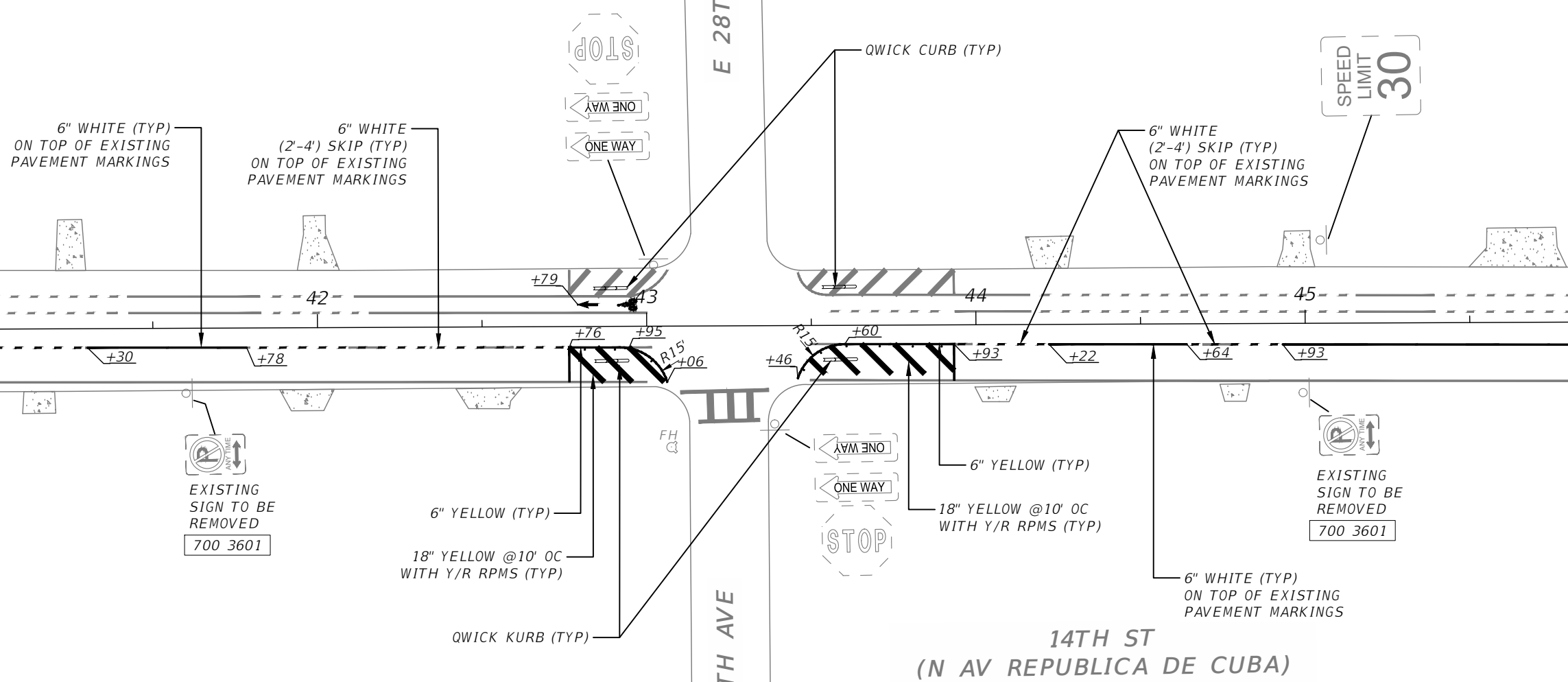
MILLING AND RESURFACING LIMITS

REVISIONS				CALVIN K. HARDIE, P.E. P.E. LICENSE NUMBER 74590 CITY OF TAMPA 306 E. JACKSON STREET TAMPA, FL 33602 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF TAMPA MOBILITY DEPARTMENT			SIGNING AND PAVEMENT MARKING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
---	---	---	---		14TH STREET	HILLSBOROUGH	0000		10



MATCHLINE STA. - 41+03.00

MATCHLINE STA. - 45+85.89



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

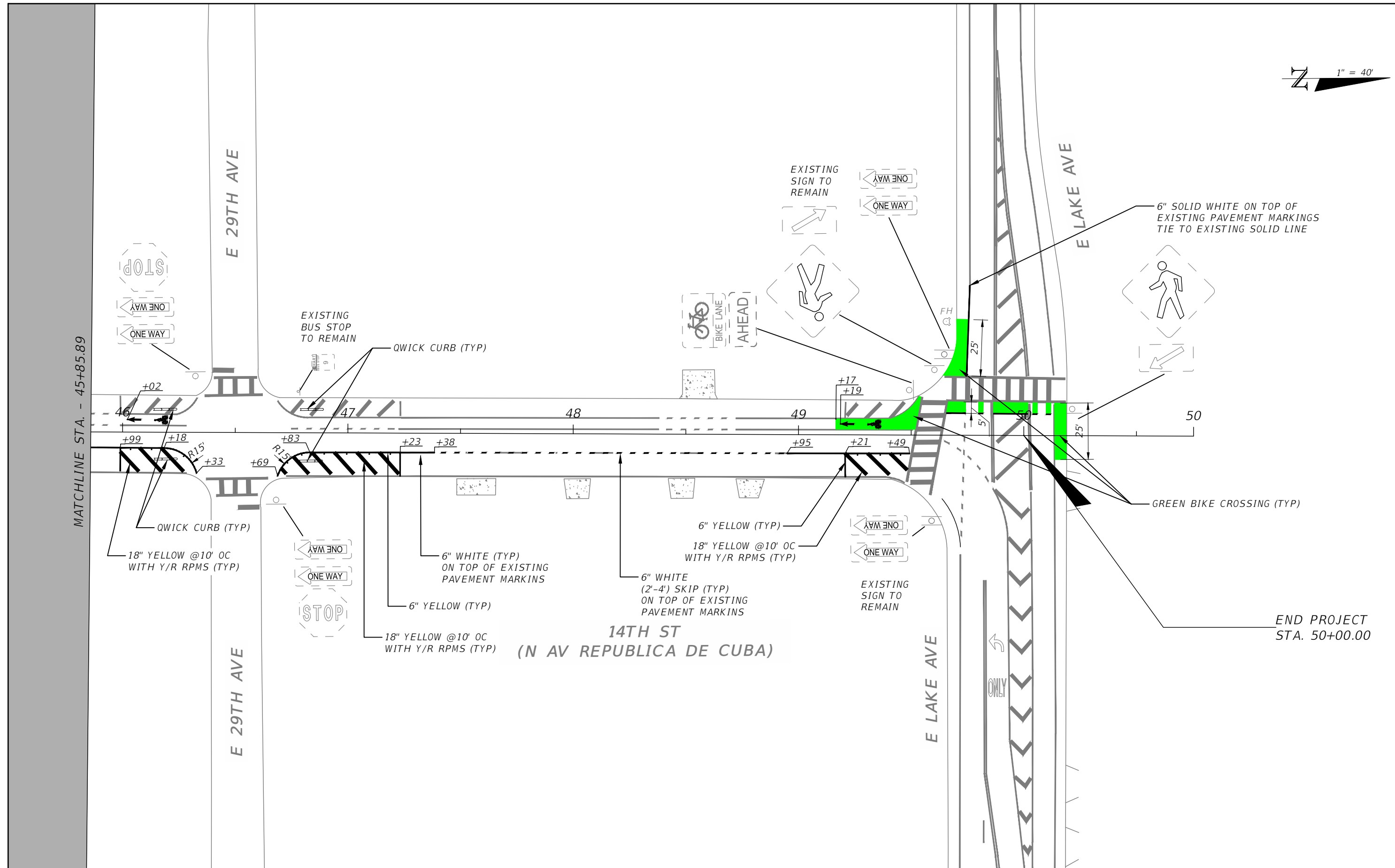
CALVIN K. HARDIE, P.E.
 P.E. LICENSE NUMBER 74590
 CITY OF TAMPA
 306 E. JACKSON STREET
 TAMPA, FL 33602
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET NO.
11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 45+85.89

END PROJECT
STA. 50+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CALVIN K. HARDIE, P.E.
P.E. LICENSE NUMBER 74590
CITY OF TAMPA
306 E. JACKSON STREET
TAMPA, FL 33602
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF TAMPA MOBILITY DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
14TH STREET	HILLSBOROUGH	0000

**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET
NO.

12

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.