BCTED NO. 210111060

BROWARD COUNTY COMMISSION HIGHWAY CONSTRUCTION & ENGINEERING DIVISON

SIGNING AND PAVEMENT MARKING PLANS

COPANS ROAD FROM EAST OF NW 49 TERRACE TO WEST OF NW 42 AVENUE BROWARD COUNTY PROJECT NO. 104518

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. SHEET DESCRIPTION KEY SHEET S-1 TABULATION OF QUANTITIES 5-2 S-3 GENERAL NOTES S-4 THRU S-8 SIGNING AND PAVEMENT MARKING PLANS 5-9 GUIDE SIGN WORK SHEET S-10 MULTI-COLUMN SIGN DATA PAVEMENT MARKING AND SIGNS DETAILS (*) S-11 S-12 THRU S-13 BICYCLE PAVEMENT MARKING AND SIGN DETAILS (*) S-14 GROUND SIGN ASSEMBLY DETAILS (*) S-15 STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS (*)

(*) FOR INFORMATION ONLY

SIGNING & PAVEMENT MARKING SHOP DRAWINGS TO BE SUBMITTED TO:

JOSEPH C. CHAN, P.E. EBS ENGINEERING, INC. 4715 NW 157 TH STREET, SUITE #202 MIAMI, FL 33014

PLANS PREPARED BY: JOSEPH C. CHAN, P.E. EBS ENGINEERING, INC. 4715 NW 157 TH STREET, SUITE #202 MIAMI, FL 33014



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

SIGNING AND PAVEMENT
MARKING PLANS
ENGINEER OF RECORD: JOSEPH C. CHAN, P.E.

P.E. NO.: 40587

FISCAL YEAR	SHEET NO.
2020	<i>S-01</i>

TABULATION OF QUANTITIES

PAY	DESCRIPTION					Si	HEET NUMBE	R <i>S</i>			TOTAL THIS	GRAND
TEM NO.	DESCRIPTION DESCRIPTION	UNIT	5 - 4	S - 5	S	- 6	S-7	5-8			SHEET	TOTAL
vo.			PLAN FINAL	PLAN FI	NAL PLAN	FINAL	PLAN FINAL	PLAN FINAL P	LAN FINAL P	LAN FINAL	PLAN FINAL	PLAN FIN
	SINGLE POST SIGN, F&I GROUND MT, UP TO 12 SF	AS	5	5	7	7	1 1	2			28	28
	SINGLE POST SIGN, F&I GROUND MT, 12-20 SF	AS		4							4	4
	SINGLE POST SIGN, RELOCATE	AS		1		?	2				5	5
	SINGLE POST SIGN, REMOVE	AS	1		5	5	10	2			18	18
	MULTI- POST SIGN, F&I GROUND MOUNT, 12 SF MULTI- POST SIGN, REMOVE	AS AS		2		2		1			5	5
	SIGN PANEL, RELOCATE, 21-30 SF	EA		1		-	7	1			3	3
	DELINEATOR, FLEXIBLE TUBULAR	EA		1			1	1			1	1
	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS										
* /	RAISED PAVEMENT MARKER, TYPE B	EA	60	99	103	3	110	48			420	420
	PAINTED PM, STD, WHITE, SOLID, 6"	GM	0.322	0.306	0.247		0.323	0.229			1.427	1.427
	PAINTED PM, STD, WHITE, SOLID, 8"	GM		0.034	0.081		0.020				0.136	0.136
	PAINT, STD., WHITE, SOLID, CROSSWALK/RA, 12"	LF	24.0	201.0	795.0)	295.0				1291.0	1291.0
	PAINT, STD., WHITE, SOLID, CROSSWALK/RA, 18" PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24"	LF LF	34.0	79.0	650.0	1	128.0				34.0 857.0	34.0 857.0
	PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24 PAINT, STD., WHITE, DOTTED, 6" (10/30)	GM	0.144	0.295	0.167		0.243	0.208			1.058	1.058
	PAINT, STD., WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	GM	0.050	0.293	0.107		0.132	0.208			0.428	0.428
	PAINT, STD., MESSAGE OR SYMBOL (ONLY)	EA	13	22	45	_	22	14			116	116
	PAINT, STD., ARROWS	EA	12	13	16		12	4			57	57
* /	PAINTED PM, STD, YELLOW, SOLID, 6"	GM	0.180	0.194	0.170)	0.177	0.152			0.873	0.873
	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF		64.9	26.4	1	5.20	5.2			101.7	101.7
	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 8"	SF		0.03	0.081		0.020				0.136	0.136
	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF		201.00	795.0)	295.0				1291.0	1291.0
	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF.	34.0	70.0	650		122.0				34.0	34.0
	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF GM	0.050	79.0	650.0		128.0	0.05			857.0	857.0 0.428
	THERMO., STD., WHITE, GUIDE LINE, 6" (2/4)/ 6-10 DOTTED EXTENSION, 6" THERMO., STD., MESSAGE OR SYMBOL (ONLY)	EA	0.050	0.092	0.1		22	14			0.428 116	116
	THERMO., STD., MESSAGE OR STMBOL (UNLT)	EA	12	13	16		12	4			57	57
	THERMO., PREFORMED, ARROWS (BIKE THRU)	EA	5.0	6.00	8.0		6.0	8			33	33
	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0.322	0.306	0.247		0.323	0.23			1.427	1.427
16102	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 8"	GM		0.034	0.081	1	0.020				0.136	0.136
16131	THERMO., STD OTHER, WHITE, DOTTED, 6" (10/30)	GM	0.144	0.295	0.17	7	0.24	0.21			1.058	1.058
	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0.180	0.194	0.170		0.177	0.15			0.873	0.873
7142	GREEN COLORED PAVEMENT MARKINGS, BIKE LANE	SF		140.0	440.0)	225.0				805.0	805.0
						1						
							+					
										1		
				+ +		1	+ + +					
						+	+					
				+ +			 	 				
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TAMARAC

R E V I S I O N S

DATE DESCRIPTION
P.E. LICENSE NUMBER 40587
EBS ENGINEERING, INC.
4715 NW 157TH STREET, SUITE #202
MIAMI, FL 33014



PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION CITY COUNTY ROAD COUNTY PROJECT NO.

COPANS LYONS

Y PROJECT NO. 104518

SIGNING AND PAVEMENT MARKING PLAN SHEET NO. S-02

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- 1. ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS. ALL SIGN PANELS SHALL BE FABRICATED TO COMPLY WITH THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION STANDARD HIGHWAY SIGNS.
- 2. THE CONTRACTOR SHALL MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS AND OFFSETS.
- 3. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC., MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY ENGINEER AND BROWARD COUNTY TRAFFIC ENGINEERING DIVISION.
- 4. INCORRECTLY PLACED THERMOPLASTIC OR PAINT MARKINGS OVER FRICTION COURSE WILL BE REMOVED BY MILLING AND FRICTION COURSE WILL BE REPLACED TO THE FULL LANE WIDTH OF THE IMPACTED AREA FOR A MINIMUM OF 50' ON EITHER SIDE OF THE DEFICIENCY AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATIVE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.
- 5. THE CONTRACTOR SHALL RELOCATE ALL EXISTING CONFLICTING POST-MOUNTED SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS DURING CONSTRUCTION. COST OF RELOCATION AND REATTACHMENT OF STREET NAME SIGN SHALL BE PAID FOR UNDER PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- 6. ALL RELOCATED SIGNS MUST COMPLY WITH THE STANDARD

 SPECIFICATIONS, SPECIAL PROVISIONS AND ROADWAY DESIGN AND TRAFFIC STANDARDS AS IF THEY WERE NEW SIGNS. IF EXISTING

 CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEMS.
- 7. THE CONTRACTOR SHALL SUBMIT EXISTING SIGNS INVENTORY, INCLUDING PHOTOS, TO THE ENGINEER OF RECORD PRIOR TO GROUND BREAKING. ANY LOST OR DAMAGED DURING CONSTRUCTION SIGNS SHALL BE REPLACED AT NO ADDITIONAL COST. COST OF MAINTAINING OF EXISTING SIGNS TO BE INCLUDED IN ITEM 102-1, MAINTENANCE OF TRAFFIC.

PAY ITEM NOTES: TBD

700-1-11 CONTRACTOR SHALL FOLLOW BCTED GROUND SIGN ASSEMBLY DETAILS. ALL SIGNS SHALL USE TYPE XI SHEETING.

700-1-60 INCLUDES DELIVERY OF REMOVED ASSEMBLY TO BROWARD COUNTY TRAFFIC ENGINEERING DIVISION OPERATIONS BUILDING AT 2300 WEST COMMERCIAL BOULEVARD, FORT LAUDERDALE, FLORIDA. PLEASE CONTACT THE TRAFFIC SIGNS SUPERINTENDENT AT (954) 847-2717 TO COORDINATE THE DELIVERY OF MATERIALS.

710-90 INCLUDES ALL FINAL PAINTED PAVEMENT MARKING. FOR QUANTITIES SEE 710-XX-XXX PAY ITEMS.
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. ITEMS ARE FOR A ONE TIME APPLICATION OF FINAL
SURFACE. DO NOT PLACE THERMOPLASTIC PAVEMENT MARKING PRIOR TO 14 CALENDAR DAYS OF

PLACEMENT OF THE FINAL ASPHALT SURFACE COURSE.

PATTERNED PAVEMENT/STAMPED ASPHALT WITH SPECIAL EMPHASIS MARKINGS WILL BE MAINTAINED BY CITY OF COCONUT CREEK (ALL 4 LEGS)

JOSEPH C.	REVISIONS	
P.E. LICENSE NU	DESCRIPTION	DATE
EBS ENGINEER		
4715 NW 157TH STR		
MIAMI, FL 3		

JOSEPH C. CHAN
P.E. LICENSE NUMBER 40587
EBS ENGINEERING, INC.
IS NW 157TH STREET, SUITE #202
MIAMI, FL 33014



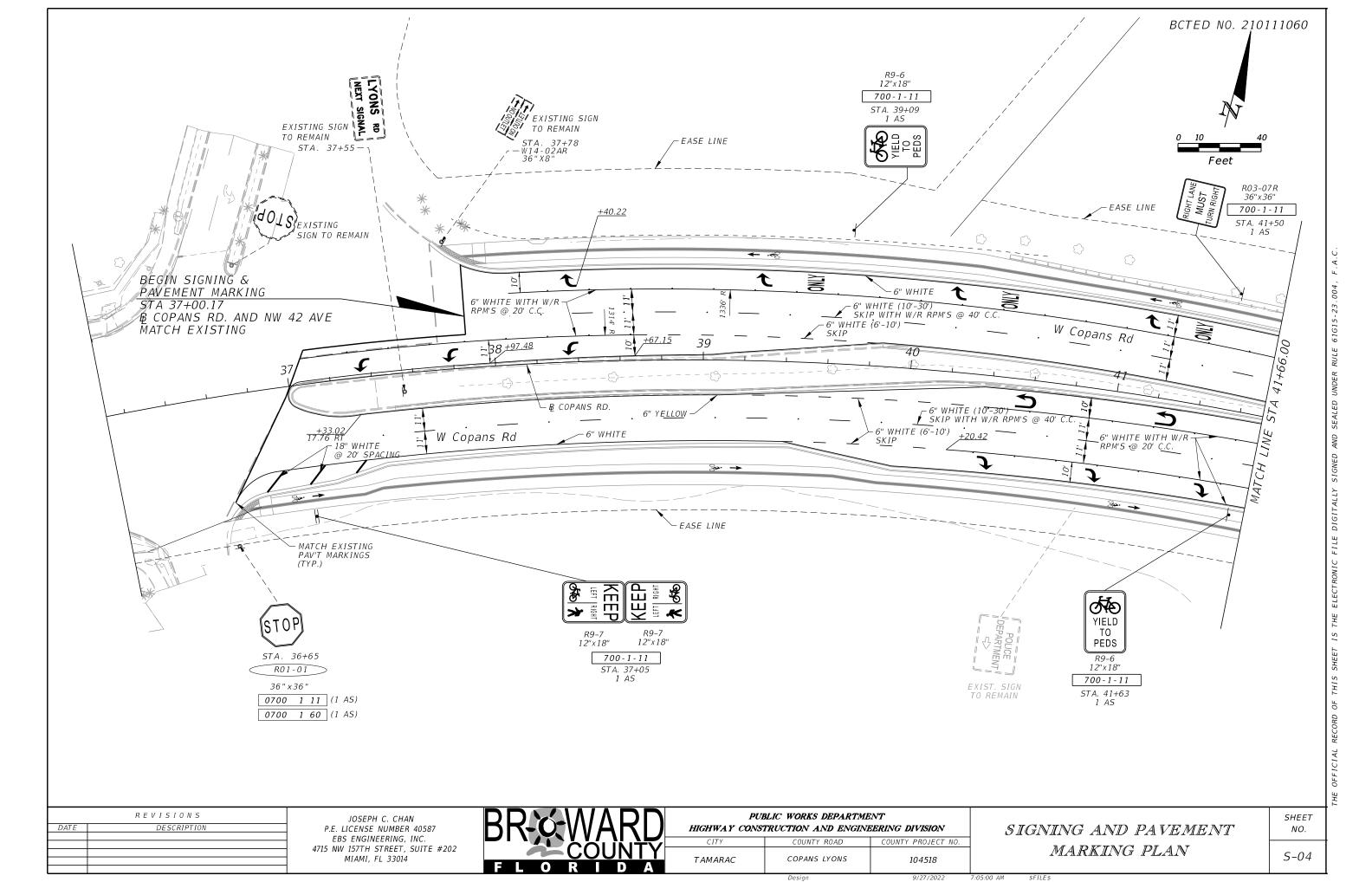
PUBLIC WORKS DEPARTMENT
HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

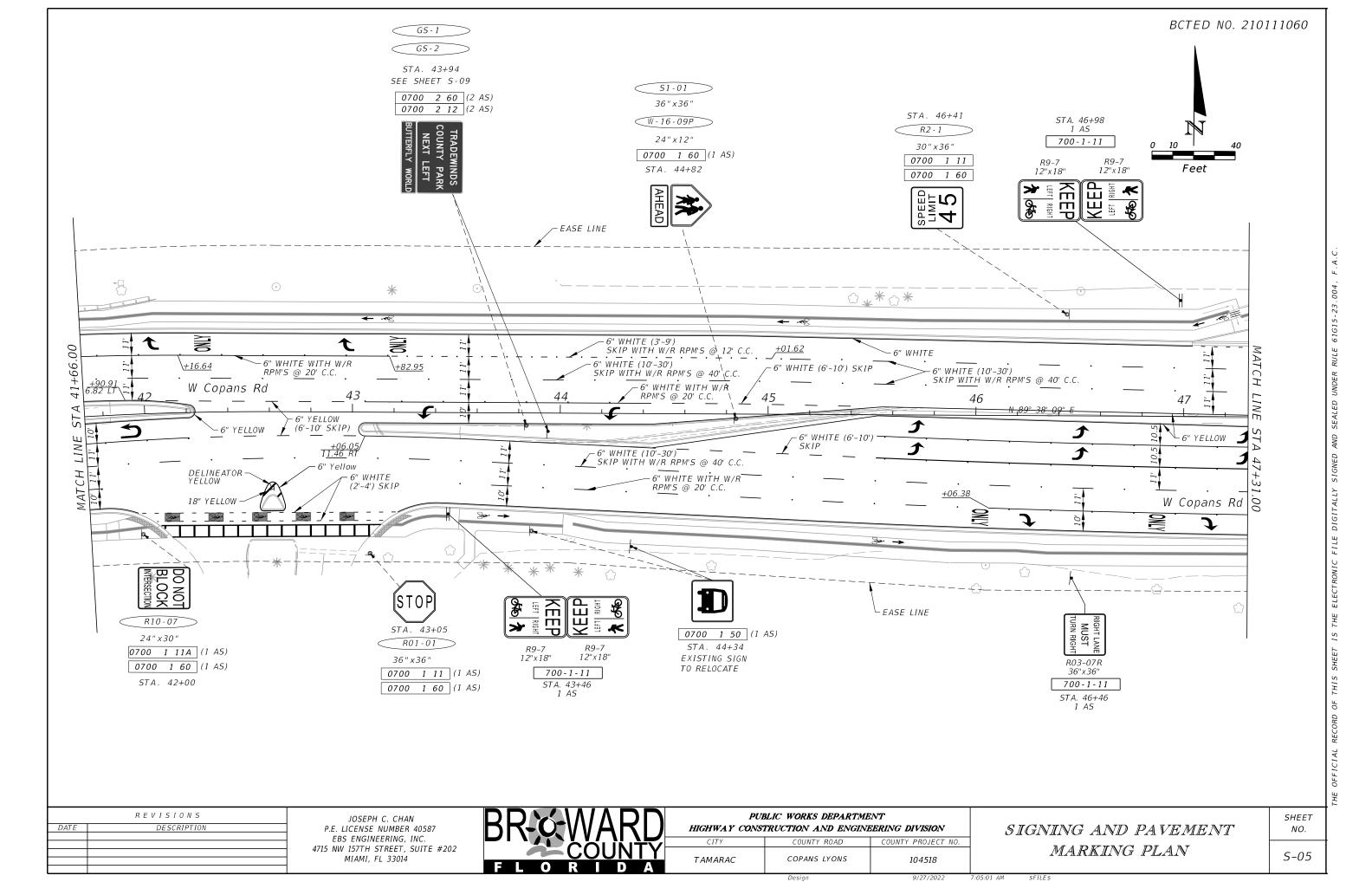
CITY COUNTY ROAD COUNTY PROJECT NO.

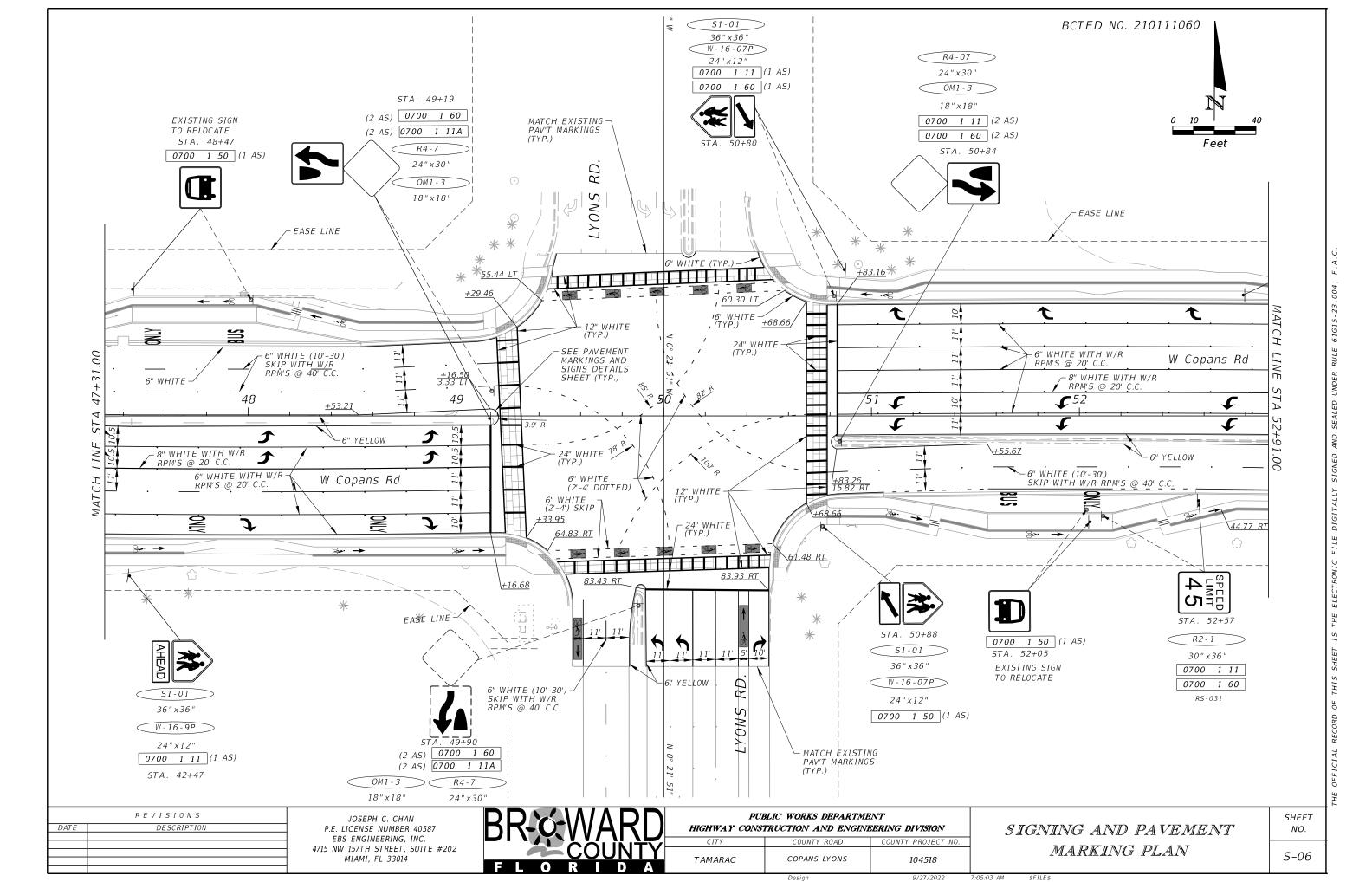
TAMARAC COPANS LYONS 104518

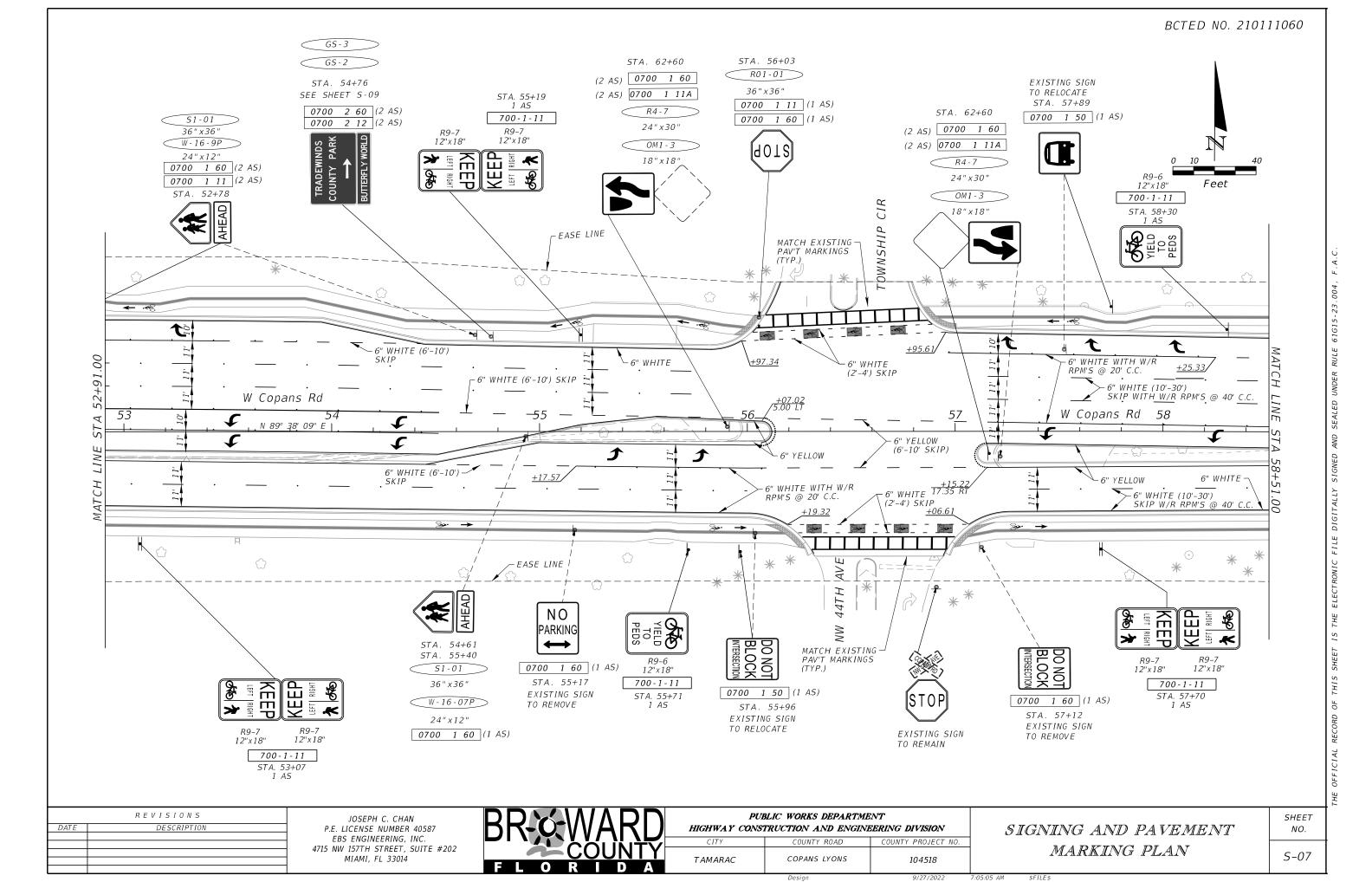
SIGNING AND PAVEMENT
MARKING PLAN

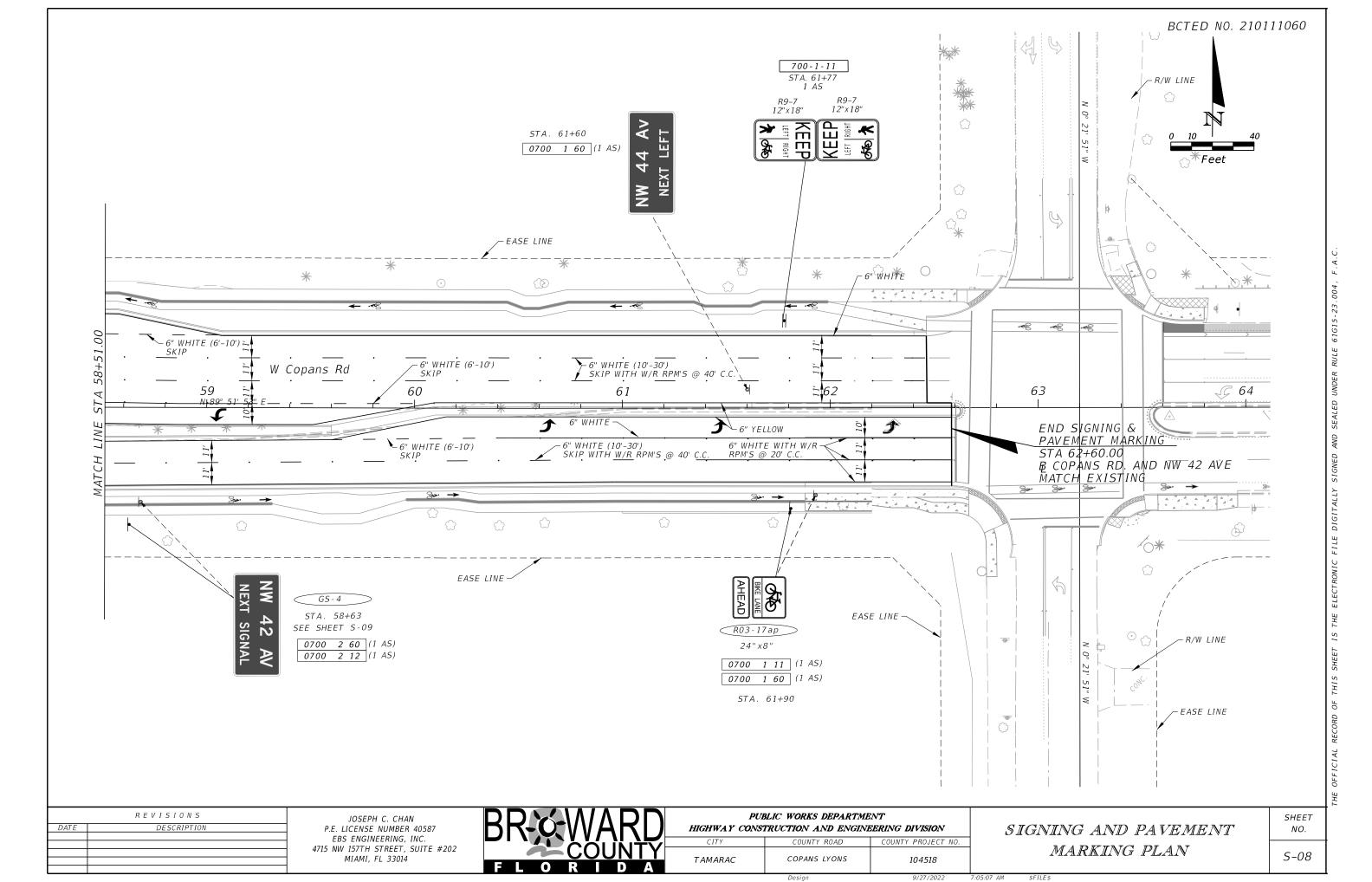
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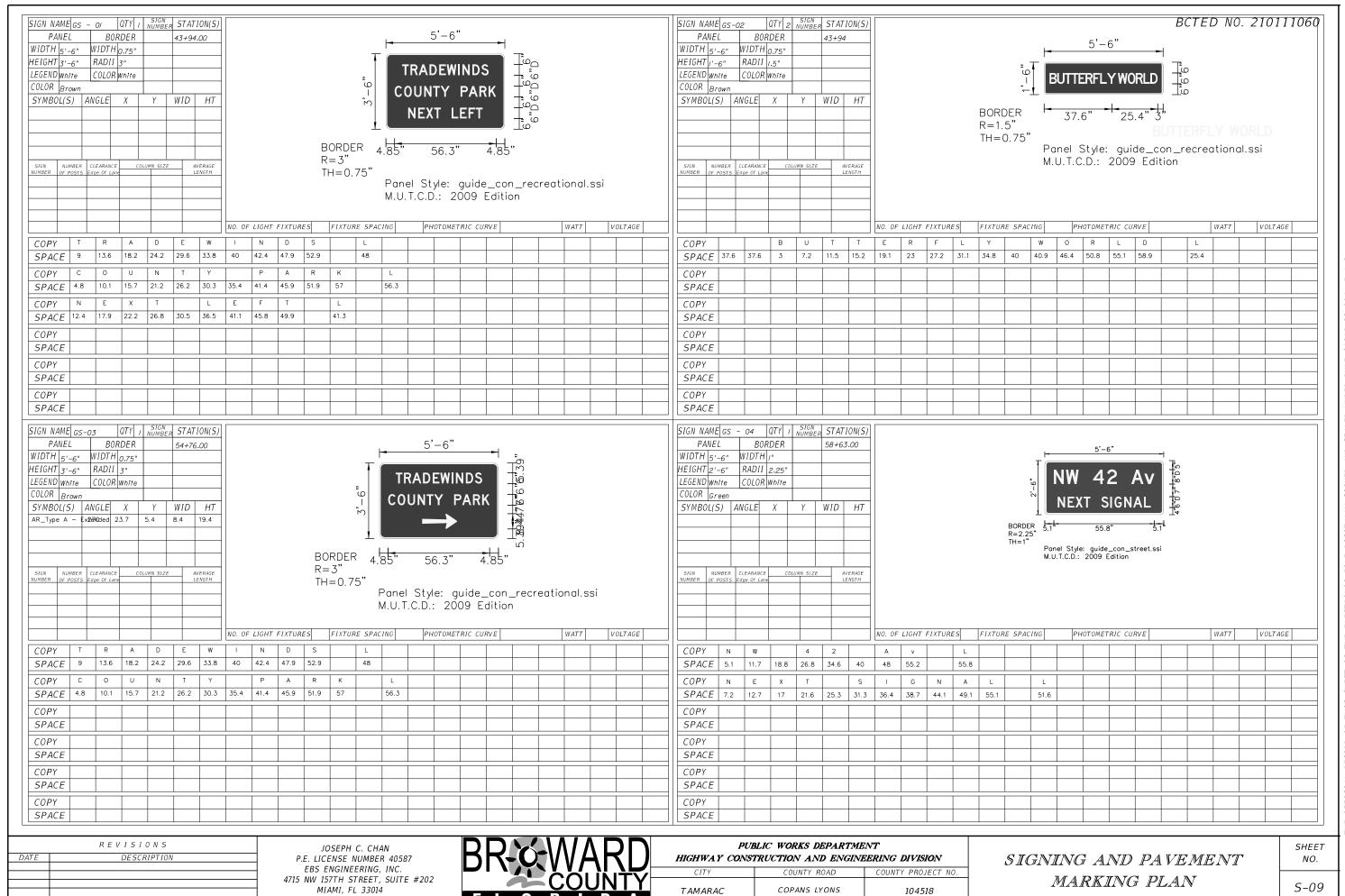






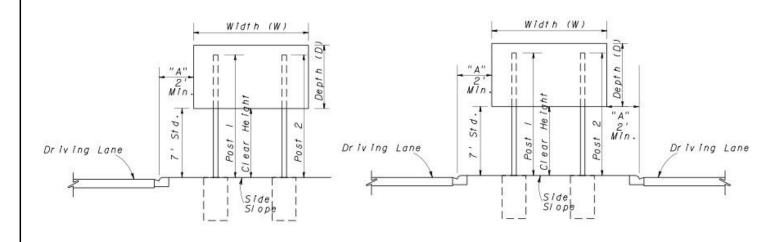






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						MULTI	COLU	MN SIGN	DATA					
FACE TO E	ANCE FROM OF CURB EDGE OF N ("A")	STATION	SIGN NO.	SIGN SIZE (W X D)	SIDE SLOPE (RUN:RISE)	CLEAR HEIGHT	NO. OF POSTS	AVERAGE LENGTH OF POSTS	STEEL POSTS	ALUMINUM BEAMS	ALUMINUM TUBES	AVERAGE LENGTH OF POSTS AND FOOTING	U-CHANNEL POSTS	SQUARE STEEL TUBES
	2'	37+60	GS - 1	4.5 x 2.5	FLAT	7.00	2	XXXX	TWO S 3 x 5.7	N/A	N/A	XXXX	N/A	N/A



TYPICAL SECTIONS
FOR PLACEMENT OF
MULTI-COLUMN SIGNS

NOTES

- 1. CLEAR HEIGHT IS THE DISTANCE BETWEEN THE BOTTOM OF THE MAIN SIGN PANEL AND THE GROUND AT THE CENTER OF THE MAIN SIGN PANEL
- 2. AVERAGE LENGTH OF POSTS COLUMN IS APPLICABLE TO STEEL POSTS

	REVISIONS
DATE	DESCRIPTION

JOSEPH C. CHAN
P.E. LICENSE NUMBER 40587
EBS ENGINEERING, INC.
4715 NW 157TH STREET, SUITE #202
MIAMI, FL 33014



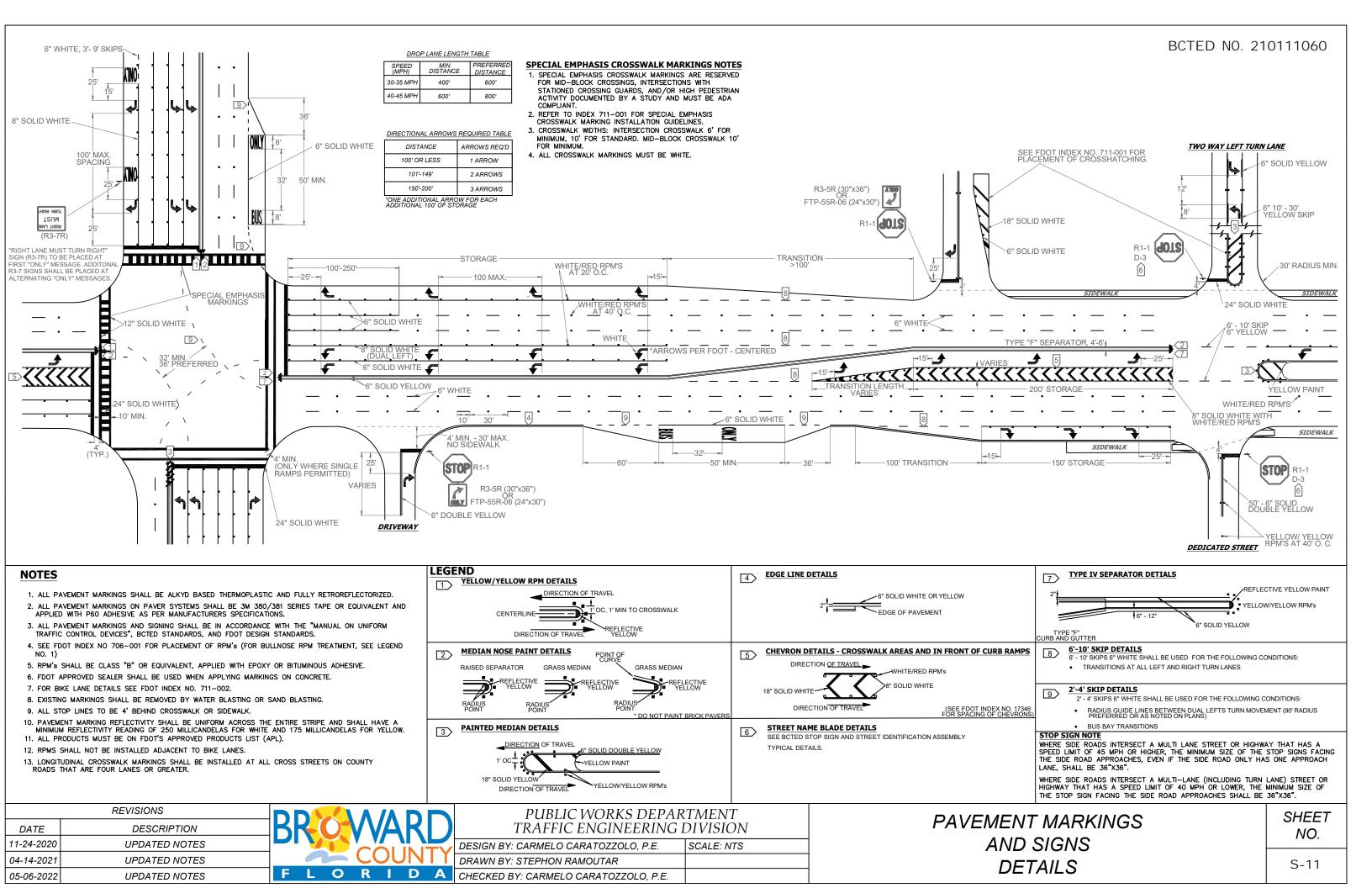
PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION							
CITY	COUNTY ROAD	COUNTY PROJECT NO.					
TAMARAC	COPANS LYONS	104518					

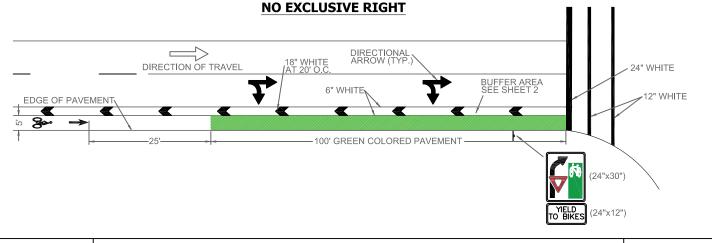
SIGNING AND PAVEMENT
MARKING PLAN

SHEET NO. S-10

5-

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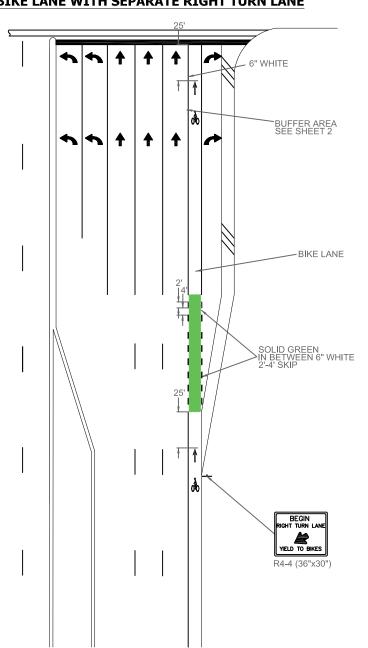




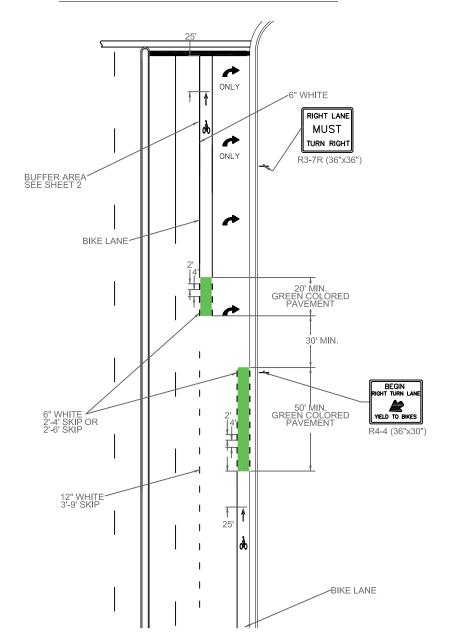
BIKE LANE WITH SEPARATE RIGHT TURN LANE

LEGEND

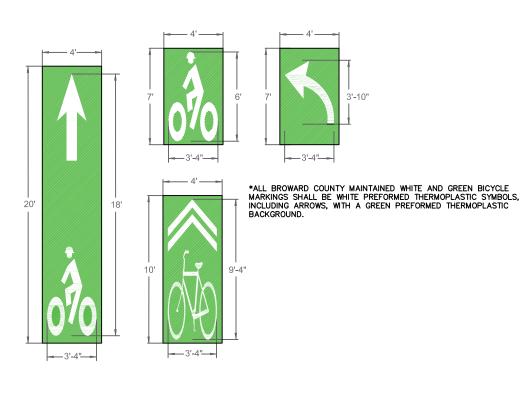
GREEN PATTERNED PAVEMENT



BIKE LANE WITH RIGHT TURN DROP LANE



BICYCLE PAVEMENT MARKING STANDARDS



NOTES

- 1. THE PREFORMED THERMOPLASTIC MARKINGS SHALL MEET STATE SPECIFICATIONS AND BE APPROVED FOR USE BY THE APPROPRIATE MAINTAINING AGENCY. GREEN AND WHITE PREFORMED THERMOPLASTIC MARKINGS <u>MUST</u> BE ON THE FDOT APL. SPECIFICATION 523 FOR GREEN AND 711 FOR WHITE PREFORMED THERMOPLASTIC MARKINGS.
- 2. THE SURFACE OF THE PREFORMED THERMOPLASTIC MATERIAL SHALL CONTAIN FACTORY APPLIED NON—SKID MATERIAL WITH A MINIMUM HARDNESS OF 8 (MOHS SCALE). UPON APPLICATION THE MATERIAL SHALL PROVIDE A MINIMUM SKID RESISTANCE VALUE OF 60 BPN WHEN TESTED ACCORDING TO ASTM E 303.
- 3. THE MATERIAL MUST BE APPLIED AT A MINIMUM THICKNESS OF 90 MILS (2.29 MM) OR 125 MILS (3.15 NUN).
- 4. THE MATERIAL MUST CONTAIN A MINIMUM OF THIRTY PERCENT (30%) INTERMIXED GRADED GLASS BEADS BY WEIGHT. THE INTERMIXED BEADS SHALL BE CLEAR AND TRANSPARENT. NO MORE THAN TWENTY PERCENT (20%) SHALL CONSIST OF IRREGULAR FUSED SPHEROIDS OR SILICA
- 5. THE MATERIALS SHALL BE APPLIED USING THE PROPANE TORCH METHOD RECOMMENDED BY THE MANUFACTURER. THE MATERIAL MUST BE APPLIED WITHOUT PREHEATING OF THE PAVEMENT TO A SPECIFIC TEMPERATURE. FOR CONCRETE APPLICATION, A COMPATIBLE PRIMER SEALER MAY BE APPLIED BEFORE APPLICATION TO ASSURE PROPER ADHESION.

	REVISIONS
DATE	DESCRIPTION
07-31-2017	N/A
08-16-2019	UPDATED SPACING

B	2	O-	V		R	D	
		0	C	Óι	JN	TY	
F	L	0	R	1	D	A	

PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATOZZOLO, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: ANDREW SEBO, P.E., P.T.O.E	

BICYCLE PAVEMENT MARKINGS AND SIGNS DETAILS

SHEET NO.

SPECIAL AREA MARKING DETAIL #1 NOTES

USE DETAIL #1 WHEN BIKE LANE CANNOT BE MAINTAINED ADJACENT TO RIGHT TURN LANE.

TYPICAL SECTION: TRANSPORTATION COMPONENTS

Functional Classification	Posted Speed (MPH)		ycle ace	On-Street Parallel Parking Requested Through Land Development Code Process for Context Sensitive Corridor Designation		
		Bicycle Lane **	Buffer ***	Door Zone This is in addition to the bicycle space	Parking Space Measured from curb face ****	
Local Streets	30 or less	N/A	N/A	4'	7'	
Residential Collector	30 or less	4'-5'^	2'-3'^	4'	7'	
Collector & Above	35	4'-5'^	2'-3'^	4'	7'	
Collector & Above	40	4'-5'	2'-3'	4'-5'	7'	
Minor Arterial	45 or less	4'-5'	2'-3'	4'-5'	7'	
Principal Arterial	55 or less	5'-6'	3' or Greater	N/A	N/A	

TYPICAL SECTION: TRANSPORTATION COMPONENTS NOTES

1.** A FIVE-FOOT BICYCLE LANE IS THE COUNTY'S TARGET BICYCLE LANE WIDTH. IF A FIVE-FOOT BIKE LANE CANNOT BE ACHIEVED, A FOUR-FOOT BIKE LANE WIDTH SHALL BE USED.

2.*** IF A BUFFER CAN BE INCORPORATED, THREE FEET IS THE TARGET BUFFER WIDTH. A FOUR-FOOT BIKE LANE WITH A THREE-FOOT BUFFER IS PREFERRED TO A FIVE-FOOT BICYCLE LANE WITH A TWO-FOOT BUFFER. IF A BUFFER CANNOT BE PROVIDED, A SOLID DOUBLE 6 INCH WHITE LINE WITH 8 INCH GAP WILL BE USED AS THE BIKE LANE STRIPE. THE BUFFER AREA SHOULD INCLUDE CHEVRON PAVEMENT MARKINGS. SEE BIKE BUFFER LANE OPTIONS

3.*** IF CURB AND GUTTER DOES NOT EXIST, THE PARKING SPACE WOULD BE EIGHT FEET WIDE MEASURED FROM THE EDGE OF PAVEMENT. PEDESTRIAN AND BICYCLE SPACE TAKES PRIORITY OVER ON-STREET PARKING WHEN RIGHT-OF-WAY IS LIMITED.

 $4.^{\circ}$ SLM - SHARED LANE MARKING (FDOT STANDARD PLAN 711-002) CAN BE USED ON COLLECTORS AND ABOVE WHEN APPROPRIATE.

5.^^^ WILL CONSIDER A THREE-FOOT DOOR ZONE ON A CASE-BY-CASE BASIS.

BIKE BUFFER LANE - OPTIONS #1 BIKE BUFFER LANE 3' BUFFER CHEVRON PAVEMENT MARKINGS REQUIRED DIRECTION OF TRAVEL **#2 BIKE BUFFER LANE** 2' BUFFER CHEVRON PAVEMENT MARKINGS REQUIRED DIRECTION OF TRAVEL **#3 BIKE BUFFER LANE** SOLID DOUBLE 6" WHITE LINE BUFFER W/ 8 INCH GAP CHEVRON PAVEMENT MARKINGS NOT REQUIRED DIRECTION OF TRAVEL g., **#4 BIKE BUFFER LANE** NO BUFFER DIRECTION OF TRAVEL \rightarrow 6" WHITE CURB **BIKE BUFFER LANE OPTIONS NOTES** 1. OPTION #1 IS DESIRED FIVE FOOT BICYCLE LANE WITH THREE FOOT BUFFER. 2. IF OPTION #1 CANNOT BE ACHIEVED THEN CONSIDER OPTION #2 AND OPTION #3 3. USE OPTION #4 ONLY IF NO BUFFER CAN BE ACHIEVED

REVISIONS DATE DESCRIPTION 07-31-2017 N/A 08-16-2019 UPDATED SPACING



PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

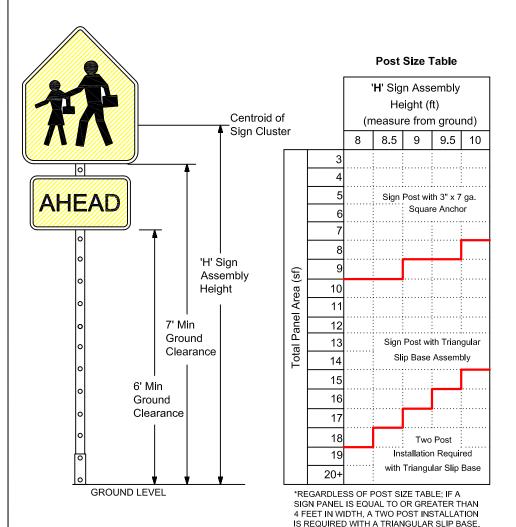
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DESIGN BY: CARMELO CARATOZZOLO, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: ANDREW SEBO, P.E., P.T.O.E	

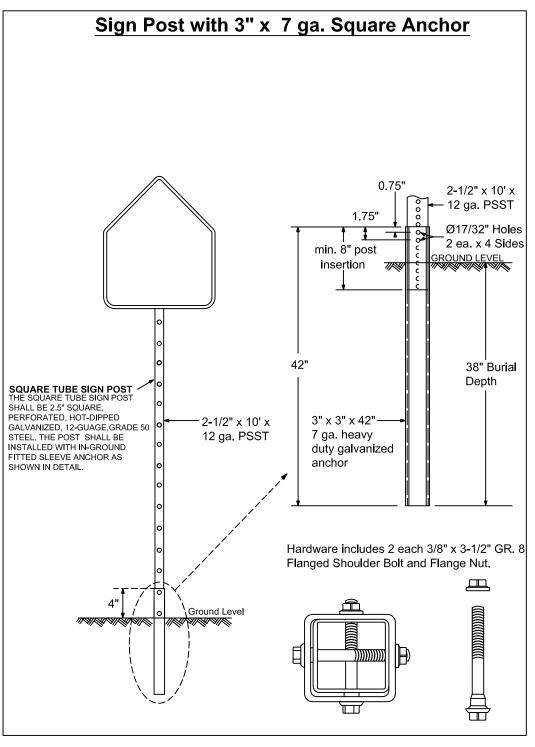
BICYCLE PAVEMENT MARKINGS AND SIGNS DETAILS SHEET NO.

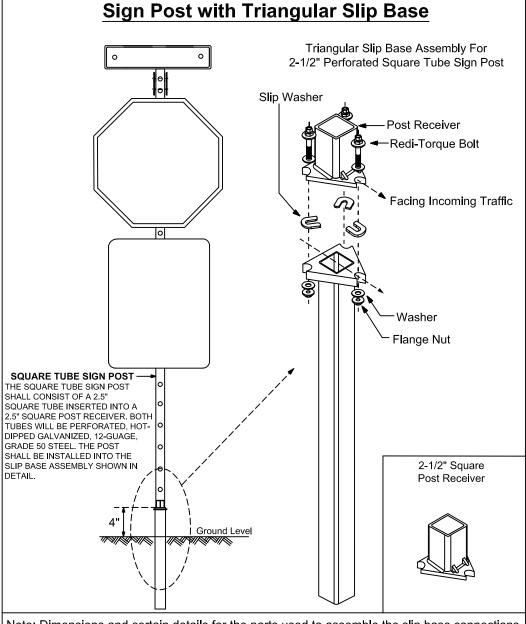
SPECIAL SIGN DETAIL (36"x30")

GUIDE TO USE THIS STANDARD:

- Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
- 2. Determine the height 'H' from the groundline for the individual sign or the cluster.
- Consult the Post Size Table and find the intersection point.
- 4. Design the post and the foundation according to the required Post Size and Assembly Details.







Note: Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

	REVISIONS
DATE	DESCRIPTION
03-21-2017	UPDATED POST SIZE
11-24-2020	ADDED POST SIZE NOTE
02-05-2021	UPDATED POST BASE HEIGHT



PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

	I KAFFIC ENGINEERING DIVISION					
,	DESIGN BY: YVES D'ANJOU, P.E.	SCALE: NTS				
	DRAWN BY: STEPHON RAMOUTAR					
ı	CHECKED BY: ANDREW SEBOLPE PTOF					

GROUND SIGN ASSEMBLY DETAILS

SHEET NO.

Typical Details STREET ID (D3-1) **Street Name** stree: 2-CROSS STREET **BLADES** THE ENDS OF THE STREET ID SIGNS MUST BE BOLTED Isometric TOGETHER: View **BOLTS - #18 HEX HEAD STAINLESS** STEEL 5/16" x 3/4" NUTS - 5/16" HEX HEAD STAINLESS STEEL W/ 3/8"NYLON WASHERS **SQUARE TUBE SIGN POST** shall be 2.5" square, perforated, hot-dipped galvanized, 12-guage, grade 50 steel. The post shall be installed with in-ground fitted sleeve anchor as shown in detail "A" below. **DETAIL "A"** 2-1/2" x 10' x 12 ga. PSST 1.75" Ø17/32" Holes 2 2 ea. x 4 Sides insertion 3" x 3" x 42"-7 ga. heavy duty galvanized anchor Burial Hardware includes 2 each 3/8" x 3-1/2" GR. Depth Flanged Shoulder Bolt and Flange Nut. Щ

STREET ID (D3-1) MATERIALS:

LETTERS

WHITE TYPE XI SHEETING LETTERING OF STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWERCASE LETTERS WITH INITIAL UPPERCASE LETTERS

BORDER

BORDER WIDTHS WILL VARY BASED ON LETTER HEIGHTS

LETTER HEIGHTS - BORDER WIDTHS

4 INCH LETTER = 0.375 INCH BORDER WIDTH 6 INCH LETTER = 0.500 INCH BORDER WIDTH 8 INCH LETTER = 0.750 INCH BORDER WIDTH

GREEN BACKGROUND

GREEN TRANSLUSCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT

LETTER SIZES

SEE MUTCD TABLE 2D-2 (PG 163) FOR MINIMUM LETTER HEIGHTS LENGTH VARIES BY STREET NAME

HARDWARE

BOLTS - #18 HEX HEAD STAINLESS STEEL 5/16" x 3" NUTS - 5/16" STAINLESS STEEL W/ NYLON WASHERS.

REGULATORY SIGN

WHEN NO STREET ID IS PRESENT THE STOP SIGN SHALL BE MOUNTED FLUSH TO THE TOP OF THE POST WHILE MAINTAINING 7 FEET MIN. CLEARANCE BETWEEN BOTTOM OF SIGN AND GROUND LEVEL. ANY SIGN INSTALLED BACK TO BACK WITH THE STOP SIGN SHALL BE SMALLER THAN THE STOP SIGN

STOP, DO NOT ENTER OR YIELD WHITE TYPE XI SHEETING

PRESSURE-SENSITIVE RED TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT.

HARDWARE

FRONT: #18 HEX HEAD STAINLESS STEEL 5/16" x 3" BOLT W/ 3/8" NYLON WASHER BACK: 5/16" HEX HEAD STAINLESS STEEL NUT

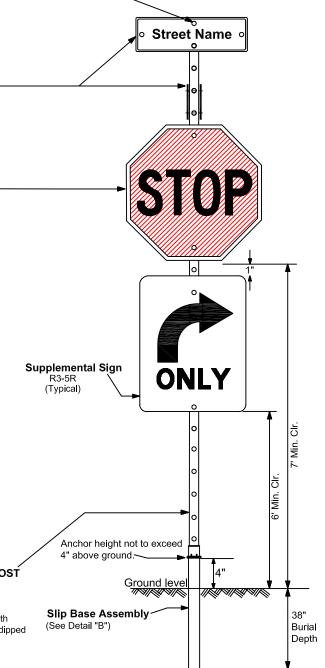
W/ 3/8" STAINLESS STEEL WASHER NOTES: 1. ALL TYPE XI SHEETING UTILIZED MUST BE ON THE FDOT APL LIST.

SEE BCTED TECHNICAL POLICY MEMO #TPM - 16-001 - SPECIFICATIONS FOR RETROFLECTIVE TRAFFIC SIGN MATERIALS.

SQUARE TUBE SIGN POST

The Square Tube Sign Post shall consist of a 2.5' square tube inserted into a 2.5" square post receiver. Both tubes will be perforated, hot-dipped galvanized, 12-guage, grade 50 steel. The post shall be installed into the slip base assembly shown in detail

Typical Details



DETAIL "B"

Triangular Slip Base Assembly For 2-1/2" Perforated Square Tube Sign Post Slip Washer -Post Receiver -Redi-Torque Bolt Facing Incoming Traffic Washer Flange Nut 2-1/2" Square Post Receiver

1. Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

2. For standard ground sign installation, see detail entitled " Ground Sign Assembly Details".

REVISIONS					
DATE	DESCRIPTION				
04-09-2019	UPDATED MATERIAL NOTES				
02-28-2020	ADDED ISOMETRIC VIEW				
02-05-2021	UPDATED POST BASE HEIGHT				

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PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATOZZOLO, P.E. SCALE: NTS DRAWN BY: STEPHON RAMOUTAR CHECKED BY: ANDREW SEBO, P.E., PTOE

STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS

SHEET NO.