AUTORIDAD
METROPOLITANA DE
AUTOBUSES

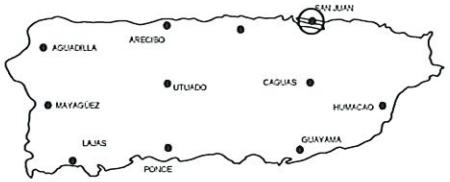
SUBASTA FORMAL NÚM. 45-2223-001

RENOVACIÓN Y ROTULACIÓN DE PARADAS

PLANOS RUTA 5

37 Ave. De Diego, Urb. San Francisco, Río Piedras / Box 195349, San Juan, PR 00919-5349
Teléfono 787-294-0500 / Fax 787-751-0527

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOPS



AUTORIDAD
METROPOLITANA DE
AUTOBUSES

SCHEDULE OF DRAWING

SHEET NO.	DRAWING NO.	DESCRIPTION
1	TI-1	TITLE SHEET
2	GR-1.01	INDEX SHEET: ROUTE 5 | BUS STOPS
3	MOT-1.01	MAINTENACE OF TRAFFIC: NOTES AND DETAILS
4	MOT-1.02	MAINTENACE OF TRAFFIC DETAILS
5	MOT-1.03	MAINTENACE OF TRAFFIC DETAILS
6	MOT-1.04	MAINTENACE OF TRAFFIC DETAILS
ROUTE 5 | FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL		
7 - 38	TS-1.01 TO TS-1.32: ROUTE 5 | BUS STOPS	
ROUTE 5 | FROM SAN JUAN TERMINAL TO ITURREGUI TERMINAL		
39 - 72	TS-2.01 TO TS-2.34: ROUTE 5 | BUS STOPS	
73 - 88	TS-3.01 TO TS-3.16: TRAFFIC SIGNS DETAILS	

MUNICIPALITIES OF SAN JUAN AND CAROLINA
LOCALIZACION 1:20,000

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
BALDORIOTY DE CASTRO AVE. (HIGHWAY PR-26) - MARGINAL ST.
HIGHWAY PR-37, PR-25, DEL TREN STREET & AIRPORT AVE.
MUNICIPALITIES OF CAROLINA & SAN JUAN

NOTE
ALL WORK ON THIS PROJECT SHALL BE PERFORMED AND ALL MATERIALS SHALL BE IN SUBSTANTIAL CONFORMITY WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND GENERAL PROVISIONS APPROVED BY THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY IN 2011

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
LIC. 18154
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Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y/o preparó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OCPs.

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OWNER:

DRAWING TYPE: TI-1

SHEET: 1 OF 88

ROUTE 5 | BUS STOPS

ROUTE 5: FROM SAN JUAN TO ITURREGUI TERMINAL

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
			SAN JUAN TERMINAL	
7	TS-1.01	9	ONLY LANE JUAN PONCE DE LEÓN AVE. AFTER OLIMPO ST.	SAN JUAN
8	TS-1.02	10	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF MADRID ST.	SAN JUAN
9	TS-1.03	11	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF WAYMOUTH ST.	SAN JUAN
10	TS-1.04	12	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE CERRA ST.	SAN JUAN
11	TS-1.05	13	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF RONCABADO ST.	SAN JUAN
12	TS-1.06	14	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE CONDADO ST.	SAN JUAN
13	TS-1.07	15	ONLY LANE JUAN PONCE DE LEÓN AVE. OPPOSITE SIDE OF VILLAMIL ST.	SAN JUAN
14	TS-1.08	16	ONLY LANE JUAN PONCE DE LEÓN AVE. AFTER OPPOSITE SIDE OF DUFFAUT ST.	SAN JUAN
15	TS-1.09	17	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE LLOVERAS ST.	SAN JUAN
16	TS-1.10	18	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF DE DIEGO AVE.	SAN JUAN
17	TS-1.11	22	LOÍZA ST. INT. DEL PARQUE ST.	SAN JUAN
18	TS-1.12	23	LOÍZA ST. INT. TAFT ST.	SAN JUAN
19	TS-1.13	24	LOÍZA ST. BEFORE JEFFERSON ST.	SAN JUAN
20	TS-1.14	25	LOÍZA ST. BEFORE APONTE ST.	SAN JUAN
21	TS-1.15	26	LOÍZA ST. BEFORE MARÍA MOCZO ST.	SAN JUAN
22	TS-1.16	27	LOÍZA ST. INT. SANTA CECILIA ST.	SAN JUAN
23	TS-1.17	28	LOÍZA ST. AFTER OPPOSITE SIDE OF RAMPLA DEL ALMIRANTE ST.	SAN JUAN
24	TS-1.18	29	LOÍZA ST. BEFORE PROVIDENCIA ST.	SAN JUAN
25	TS-1.19	47	LAGUNA AVENUE BEFORE OPPOSITE SIDE OF ACUARIO ST.	CAROLINA
26	TS-1.20	48	LAGUNA AVENUE BEFORE OPPOSITE SIDE OF LUNA ST.	CAROLINA
27	TS-1.21	49	LUNA ST. INT. ANDRÓMEDA ST.	CAROLINA
28	TS-1.22	50	LUNA ST. INT. ASTRO ST.	CAROLINA
29	TS-1.23	51	LUNA ST. BEFORE TAURO ST.	CAROLINA
30	TS-1.24	52	LUNA ST. BEFORE SOL ST.	CAROLINA
31	TS-1.25	53	SOL ST. OPPOSITE SIDE OF SAGITARIO ST.	CAROLINA
32	TS-1.26	54	BALDORIOTY DE CASTRO MARGINAL FRONT METHODIST CHURCH	CAROLINA
33	TS-1.27	55	BALDORIOTY DE CASTRO MARGINAL INT. JOAQUINA ST.	CAROLINA
34	TS-1.28	56	BALDORIOTY DE CASTRO MARGINAL FRONT ENTERPRISE	CAROLINA
35	TS-1.29	57	BALDORIOTY DE CASTRO MARGINAL FRONT INTERSUITE CONDOMINIUM	CAROLINA
36	TS-1.30	58	BALDORIOTY DE CASTRO MARGINAL BEFORE SANTANA AVENUE	CAROLINA
37	TS-1.31	59	BALDORIOTY DE CASTRO MARGINAL FRONT FUENTE AGUA VIVA CHURCH	CAROLINA
38	TS-1.32	60	BALDORIOTY DE CASTRO MARGINAL BEFORE ITURREGUI AVENUE	CAROLINA
			ITURREGUI STATION	

ROUTE 5: FROM ITURREGUI TERMINAL TO SAN JUAN

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
			ITURREGUI STATION	
39	TS-2.01	1	BALDORIOTY DE CASTRO MARGINAL AFTER ITURREGUI AVENUE	CAROLINA
40	TS-2.02	2	BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF FUENTE AGUA VIVA CHURCH	CAROLINA
41	TS-2.03	3	BALDORIOTY DE CASTRO MARGINAL AFTER SANTANA AVENUE	CAROLINA
42	TS-2.04	4	BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF INTERSUITE CONDOMINIUM	CAROLINA
43	TS-2.05	5	BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF JOAQUINA ST.	CAROLINA
44	TS-2.06	6	SOL ST. BEFORE PISCIS ST.	CAROLINA
45	TS-2.07	7	LUNA ST. AFTER SOL ST.	CAROLINA
46	TS-2.08	8	LUNA ST. INT. PEGASO ST.	CAROLINA
47	TS-2.09	9	LUNA ST. BEFORE ARIES ST.	CAROLINA
48	TS-2.10	10	LUNA ST. INT. ASTRAL ST.	CAROLINA
49	TS-2.11	11	LUNA ST. INT. COSMOS ST.	CAROLINA
50	TS-2.12	12	LAGUNA AVENUE BEFORE ACUARIO ST.	CAROLINA
51	TS-2.13	13	COSMOS ST. BEFORE LUNA ST.	CAROLINA
52	TS-2.14	14	ESTRELLA DEL NORTE ST. INT. ANDRÓMEDA ST.	CAROLINA
53	TS-2.15	15	CRUZ DEL SUR ST. BEFORE ASTRAL ST.	CAROLINA
54	TS-2.16	16	CRUZ DEL SUR ST. INT. LOS ÁNGELES ST.	CAROLINA
55	TS-2.17	33	LOÍZA ST. AFTER LAS AMÉRICAS AVENUE	SAN JUAN
56	TS-2.18	34	LOÍZA ST. AFTER RAMPA DEL ALMIRANTE ST.	SAN JUAN
57	TS-2.19	35	LOÍZA ST. BEFORE OPPOSITE SIDE OF MANUEL CORCHADO ST.	SAN JUAN
58	TS-2.20	36	LOÍZA ST. AFTER CORDERO ST.	SAN JUAN
59	TS-2.21	37	LOÍZA ST. INT. FAMILY COURT ST.	SAN JUAN
60	TS-2.22	38	LOÍZA ST. BEFORE F. KING'S COURT ST	SAN JUAN
61	TS-2.23	39	LOÍZA ST. BEFORE DE DIEGO AVE.	SAN JUAN
62	TS-2.24	43	JUAN PONCE DE LEÓN AVENUE BEFORE OPPOSITE SIDE OF LLOVERAS ST.	SAN JUAN
63	TS-2.25	44	JUAN PONCE DE LEÓN AVENUE BEFORE OPPOSITE SIDE OF HIPÓDROMO ST.	SAN JUAN
64	TS-2.26	45	JUAN PONCE DE LEÓN AVENUE BEFORE DEFFAUT ST.	SAN JUAN
65	TS-2.27	46	JUAN PONCE DE LEÓN AVENUE BEFORE LABRA ST.	SAN JUAN
66	TS-2.28	47	JUAN PONCE DE LEÓN AVENUE BEFORE JESÚS TIZOL ST.	SAN JUAN
67	TS-2.29	48	JUAN PONCE DE LEÓN AVENUE INT RUCABADO ST.	SAN JUAN
68	TS-2.30	49	JUAN PONCE DE LEÓN AVENUE INT. MONSERRATE ST.	SAN JUAN
69	TS-2.31	50	JUAN PONCE DE LEÓN AVENUE BEFORE HOARE ST.	SAN JUAN
70	TS-2.32	51	JUAN PONCE DE LEÓN AVENUE BEFORE TRIGO ST.	SAN JUAN
71	TS-2.33	52	JUAN PONCE DE LEÓN AVENUE BEFORE ENSENADA ST.	SAN JUAN
72	TS-2.34	53	JUAN PONCE DE LEÓN AVENUE OPPOSITE SIDE OF OLIMPO ST.	SAN JUAN
			SAN JUAN TERMINAL	

Yo, Hernan E. López Báez, ingeniero, licencia 18134, certifico que soy el profesional que certificó, diseñó y preparó esos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias, Juntas, Reglamentaciones o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia es así por mí, mis agentes o empleados, y por esta personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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BUS STOP SIGNAGE PROJECT - PHASE 1
INDEX SHEET: ROUTE 5 | BUS STOPS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITIES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY: ABZ
DWG. TYPE GR-1.01	SHEET NO. 2 OF 88

ROUTE 5 | BUS STOPS

GENERAL NOTES:

1. NO WORK OTHER THAN MOBILIZATION, TRAFFIC CONTROL, AND PROJECT FIELD OFFICE, SHALL BE PERFORMED UNTIL THE PROGRESS SCHEDULE IS APPROVED BY THE ENGINEER.

2. ALL TEMPORARY CONTROL DEVICES SHALL COMPLY WITH THE SUPPLEMENTAL SPECIFICATION NUMBER 638 - "MAINTENANCE AND PROTECTION OF TRAFFIC" OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 EDITION.

3. EQUIPMENT, MATERIALS AND OTHER DEVICES USED FOR CONSTRUCTION SHALL BE REMOVED FROM THE ROADWAY AFTER WORK HOURS AND SHALL BE STAGED A MINIMUM OF 10 METERS FROM THE TRAVEL WAY.

4. THE DRUM SPACING SHALL BE 5 METERS.

5. ANY ALTERATION TO THE SCHEDULE THAT MAY IMPROVE TRAFFIC OPERATIONS WITHIN THE CONSTRUCTION AREA, IN ACCORDANCE WITH THE CURRENT MUTCD AND WITH NO ADDITIONAL COST TO THE AUTHORITY, SHALL BE SUBMITTED TO THE ENGINEER AT LEAST TWENTY ONE (21) CALENDAR DAYS IN ADVANCE TO THE PROPOSED DATE OF IMPLEMENTATION FOR REVIEW. IF THE PROPOSED ALTERATION IS APPROVED IT SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER.

6. THE CONTRACTOR CAN PERFORM, WITH THE APPROVAL OF THE ENGINEER, SEVERAL SIMULTANEOUS ACTIVITIES WITHIN A STAGE, AND AS PERMITTED BY THE CONTRACT PROPOSAL QUANTITIES ON THE TRAFFIC CONTROL ITEMS.

7. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THE INSTALLATION OF TEMPORARY TRAFFIC CONTROL DEVICES FOR EACH PHASE AT LEAST FOURTEEN (14) CALENDAR DAYS IN ADVANCE FOR THE RELEASE OF PUBLIC NOTICE. THE CONTRACTOR SHALL NOT COMMENCE ANY OF THE CONSTRUCTION PHASES WITHOUT A PUBLIC NOTICE IS ISSUED OR WITHOUT DIRECT CONSENT FROM THE ENGINEER.

9. THE CONTRACTOR SHALL FURNISH TEMPORARY TRAFFIC CONTROL DEVICES THAT MEET NCHRP 350 CRITERIA FOR THE APPLICABLE CRASHWORTHINESS STANDARD.

10. ALL TRAFFIC CONTROL SIGNS DETERMINED BY THE ENGINEER TO BE UNNECESSARY FOR THE APPLICABLE CONSTRUCTION OPERATION SHALL BE IMMEDIATELY COVERED IN ITS ENTIRETY WITH NON ABRASIVE MATERIAL AND SHALL BE INSPECTED DURING DAY AND NIGHT TIME TO ENSURE THAT THE SIGN IS NOT READABLE. THIS WORK IS A SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

11. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS AND MEASURES TO AVOID FALLING DEBRIS, TOOLS, EQUIPMENT OR ANY OTHER MATERIALS INTERFERE OR IMPACT THE MOTORING PUBLIC IN THE ROADWAY. ALL THE MATERIALS, LABOR EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

12. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO ADJACENT PROPERTIES DURING CONSTRUCTION. THIS WORK WILL REQUIRE COORDINATION WITH BUSINESSES AND PRIVATE OWNERS. ALL THE MATERIALS, LABOR, EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

13. TEMPORARY CONCRETE BARRIER SHOULD HAVE AN OFF-SET END SECTION AS APPROVED BY THE ENGINEER.

14. NO EXCAVATION AND/OR PAVEMENT DROP-OFF SHAL REMAIN OPEN WITHIN THE TRAVELED WAY WHEN THE CONTRACTOR OR ITS PERSONNEL IS NOT WORKING AND PHYSICALLY PRESENT AT THE WORK SITE.

CONSTRUCTION SCHEDULE:

FOR THE CONSTRUCTION OPERATIONS FOR THE IMPROVEMENTS AND SIGNAGE AT THE BUS-STOPS OF THE PRMBA FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL, INCLUDING BALDORIOTY DE CASTRO AVE. (HIGHWAY PR-26) - MARGINAL ST., HIGHWAY PR-37, PR-25, DEL TREN STREET AND AIRPORT AVE. IN THE MUNICIPALITIES OF CAROLINA AND SAN JUAN. THE FOLLOWING CONSTRUCTION SCHEDULE AND BASIC SAFETY PRINCIPLES SHALL BE FOLLOWED IN ORDER TO MAINTAIN TRAFFIC FLOW WITH THE LEAST POSSIBLE INTERFERENCE FROM THE WORK. ANY ALTERATIONS TO THIS SCHEDULE, SHALL BE SUBMITTED IN WRITING TO THE EXECUTIVE DIRECTOR FOR FINAL APPROVAL PRIOR TO EXECUTION.

TYPICAL DETAILS ARE SUBMITTED FOR THE TEMPORARY TRAFFIC CONTROL ACTIVITIES FOR A VARIETY OF SITUATIONS COMMONLY ENCOUNTERED. IT IS REQUIRED FROM THE ENGINEER TO ADJUST THESE GUIDELINES TO FIELD CONDITIONS. ALSO A MAINTENANCE OF TRAFFIC IS INCLUDED FOR EACH ONE OF THE RAMPS THAT REQUIRE A PARCIAL CLOSURE DURING THE PAVEMENT AND BRIDGE DECK REHABILITATION.

TRAFFIC FLOW:

1. THE TRAFFIC FLOW WILL BE FLOWING AS INDICATED ON THE TYPICAL DETAIL USED FOR THE CONSTRUCTION AREA.

2. ALL WORKS FOR THIS PROJECT, EXCEPT THE ACTIVITIES THAT REQUIRE THE FULL DEPTH EXCAVATION FOR THE REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR PARTIAL REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR THE CLOSURE OF A TRAFFIC LANE FOR AT LEAST ONE DAY, SHALL BE PERFORMED DURING THE NIGHT, FROM MONDAY TO THURSDAY BETWEEN 8:30 PM TILL 4:30 AM. ALL TRAVELED LANES SHALL BE OPENED TO THE TRAFFIC DURING NON-WORKING HOUR.

3. ALL WORKS FOR THIS PROJECT, EXCEPT THE ACTIVITIES THAT REQUIRE THE FULL DEPTH EXCAVATION FOR THE REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR PARTIAL REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR THE CLOSURE OF A TRAFFIC LANE FOR MORE THAN ONE DAY, SHALL BE PERFORMED DURING WEEKENDS. FROM FRIDAY AT 9:30 PM TO MONDAY AT 4:30 AM.

5. ALL PROPOSED ACTIVITIES FOR THE PROJECT, WHICH AFFECTS THE NORMAL FLOW OF THE BUSES OWN BY THE PRMBA, SHALL BE COORDINATE WITH THE PRMBA PERSONNEL.

6. ALL CONSTRUCTION SIGNS SHALL BE REMOVED AFTER CONSTRUCTION DAY ENDS.

PHASES:

1. INSTALL TEMPORARY SAFETY DEVICES AND CONSTRUCTION SIGNS AS INDICATED ON PLANS.
2. THE INSTALLATION OPERATIONS SHALL BE PERFORMED WITHOUT THE MINIMUM INTERFERENCE TO TRAFFIC FLOW.
3. TRAFFIC MOVEMENT ON EXISTING ROADWAY.
4. REMOVAL OF EXISTING SIGNS AND POSTS IN THE BUS-STOPS.
5. INSTALL THE BUS-STOPS SIGNS, POSTS AND SITE IMPROVEMENTS.
6. REMOVE ALL THE CONSTRUCTION SIGNS AND SAFETY DEVICES AT THE COMPLETION OF THE WORK DAYS.

SIGNS COLORS		
SIGN CODE	BACKGROUND	LEGEND/BORDER
W21-4, G20-2(a), W20-7A, W-20-8	FLUORESCENT ORANGE	NON REFLECTIVE BLACK
R1-1	REFLECTIVE RED	REFLECTIVE WHITE

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC: NOTES AND DETAILS

FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

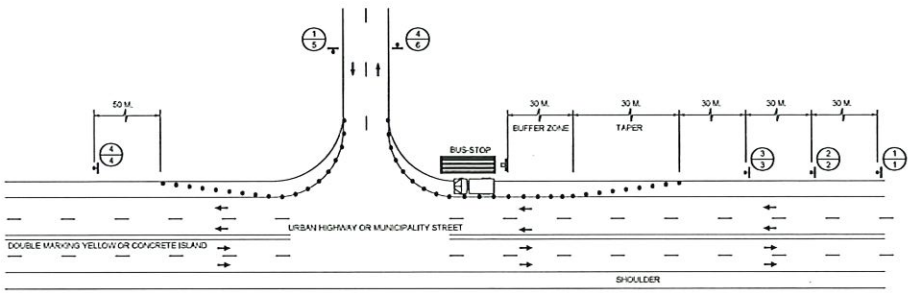
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

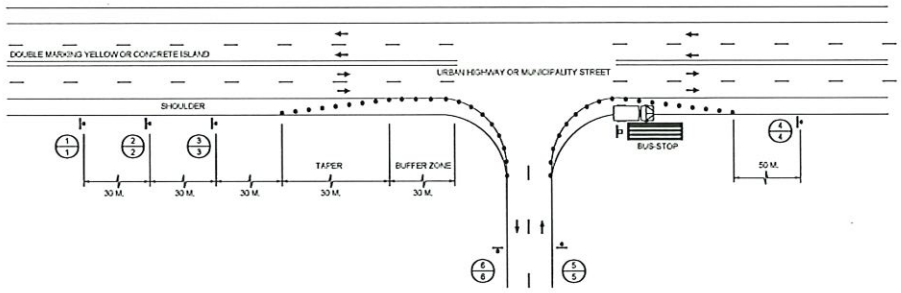
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE MOT-1.01	SHEET NO. 3 OF 88

ROUTE 5 | BUS STOPS

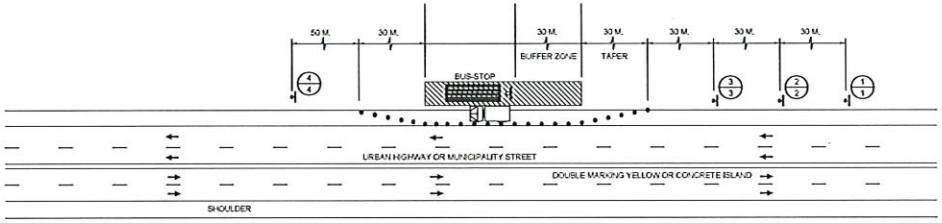
DETAIL - A



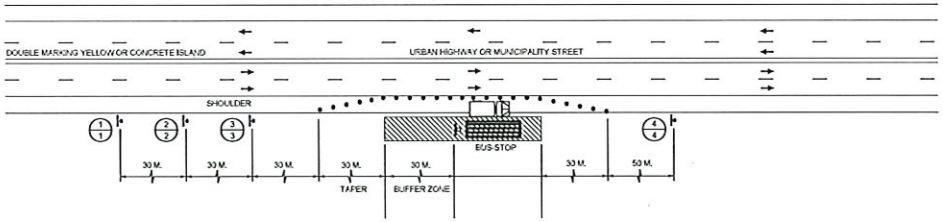
DETAIL - B



DETAIL - C



DETAIL - D



LEGEND:

- TRAFFIC FLOW
- TEMPORARY TRAFFIC SIGN (MOUNTED ON WOOD PORTABLE SUPPORT)
- TEMPORARY SIGN IDENTIFICATION
  X = CODE NUMBER
  Y = LOCATION NUMBER
- RETROREFLECTIVE PLASTIC DRUMS (3.00 MTS. SPACING) SEE MPT 1, PRHTA STANDARD DRAWINGS
- WORKING TRUCK

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC DETAILS

FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

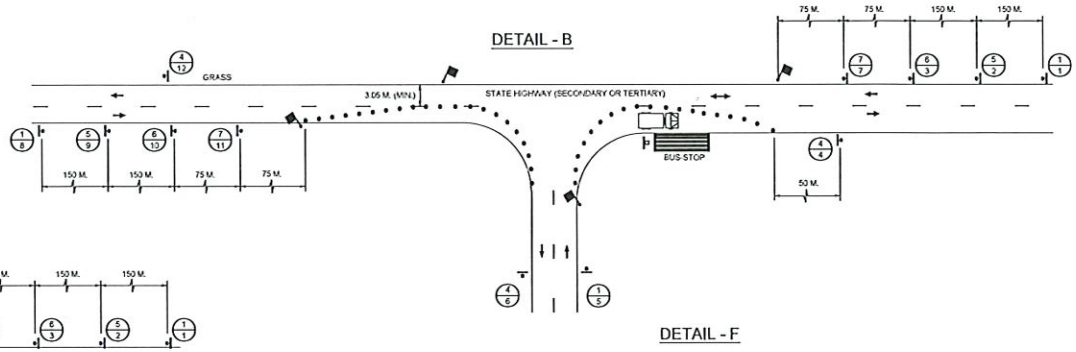
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY. ABZ
DWG. TYPE MOT-1.02	SHEET NO. 4 OF 88

ROUTE 5 | BUS STOPS

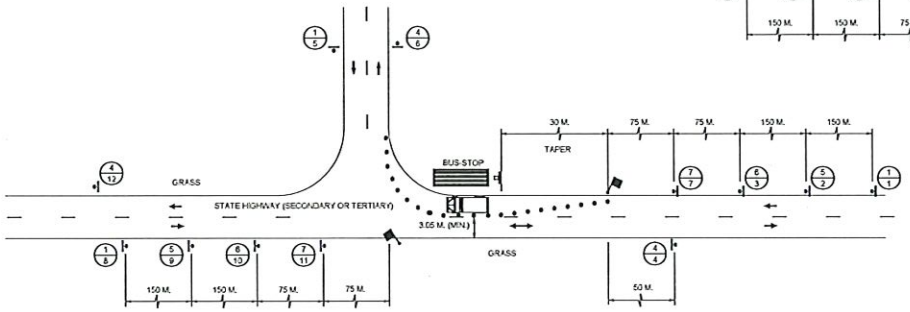
LEGEND:

- TRAFFIC FLOW
- TEMPORARY TRAFFIC SIGN (MOUNTED ON WOOD PORTABLE SUPPORT)
- TEMPORARY SIGN IDENTIFICATION
  X = CODE NUMBER
  Y = LOCATION NUMBER
- RETROREFLECTIVE PLASTIC DRUMS (3.00 MTS. SPACING) SEE MPT 1, PRHTA STANDARD DRAWINGS
- WORKING TRUCK
- FLAG PERSON WITH RADIO COMMUNICATION SYSTEM SEE MUTCD SECTION 6E.07: FLAGGER PROCEDURES

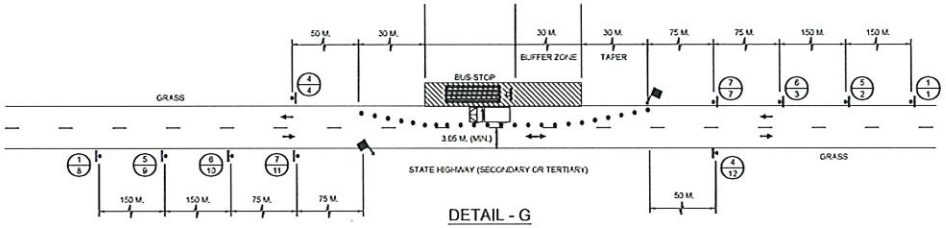


DETAIL - B

DETAIL - F



DETAIL - E



DETAIL - G

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Renuncio a cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. M15APE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC DETAILS

FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

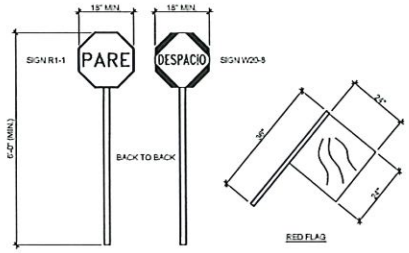
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE MOT-1.03	SHEET NO. 5 OF 88

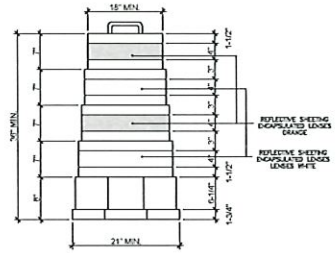
ROUTE 5 | BUS STOPS

TEMPORARY SIGN DATA

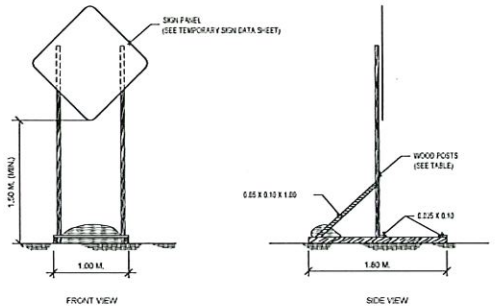
CODE NUMBER	LOCATION NUMBER	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	OVERHEAD STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	1, 5	W21-4	TRABAJO EN CARRETERA ADELANTE	36" X 36"	N/A	SEE MUTCD 2009 EDITION	1
2	2	W21-4	TRABAJO EN CARRETERA 50 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	1
3	3	W21-4	TRABAJO EN CARRETERA 30 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	1
4	4, 6	635-2(a)	TERMINA TRABAJO EN CARRETERA	36" x 24"	N/A	SEE MUTCD 2009 EDITION	2
5	2, 9	W21-4	TRABAJO EN CARRETERA 300 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	2
6	3, 10	W21-4	TRABAJO EN CARRETERA 150 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	2
7	7, 11	W20-7A		30" x 30"	N/A	SEE MUTCD 2009 EDITION	1
8	STOP/SLOW PADDLE	R1-1 W20-5	PARE • DESPACIO BACK TO BACK	18" x 18"	N/A	LIGHT WEIGHT PADDLE	1



HAND-SIGNALING DEVICES BY FLAGGERS
NOT TO SCALE



REFLECTORIZED PLASTIC DRUM



TEMPORARY WOOD PORTABLE SUPPORT
FOR CONSTRUCTION SIGNS
NOT TO SCALE

TEMPORARY WOOD PORTABLE SUPPORT TABLE

WOOD POST SIZES		MAXIMUM SIGN PANEL AREA (SQUARE METERS)	
MT. X MT.	IN. X IN.	1 POST	2 POSTS
0.10 X 0.10	4 X 4	1.00	2.00
0.10 X 0.15	4 X 6	N/A	3.00
0.15 X 0.15	6 X 6	N/A	4.50
0.15 X 0.20	6 X 8	N/A	8.00

Yo, Hernan E. Lopez Baez, ingeniero licencia 18156, certifico que soy el profesional que certificamos, diseño y preparo estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigente de las Agencias, Junta Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, y por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18156FE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC DETAILS

FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE MOT-1.04	SHEET NO. 6 OF 88

ROUTE 5 | BUS STOP #9

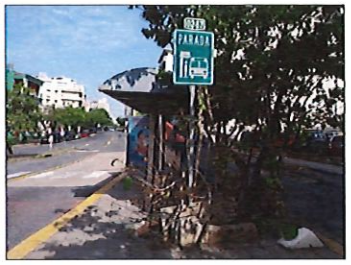
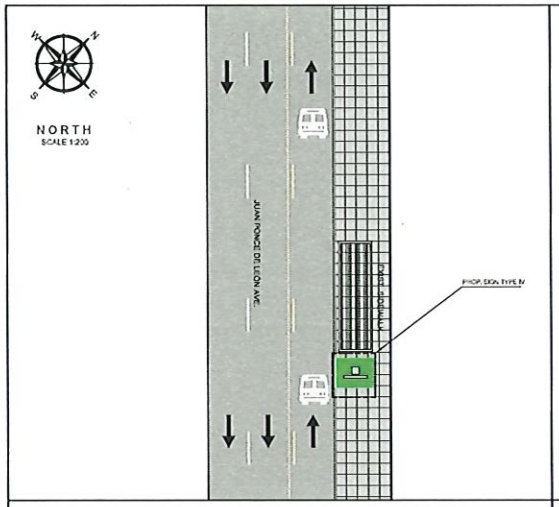


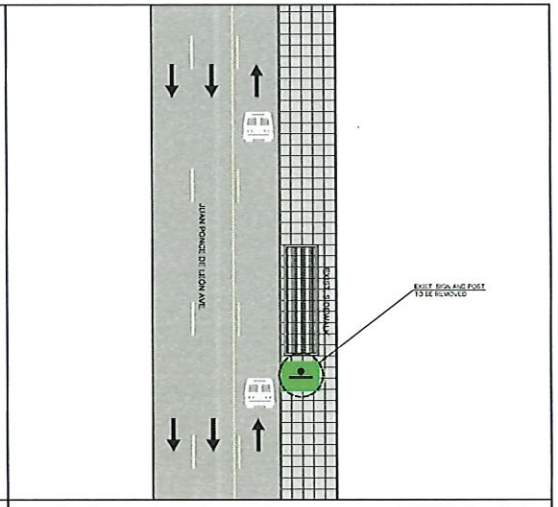
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

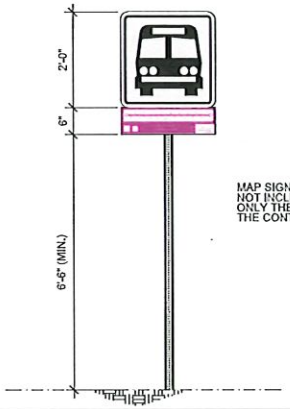


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#9



EXIST. CONDITIONS - ROUTE 5 | B.S.#9

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

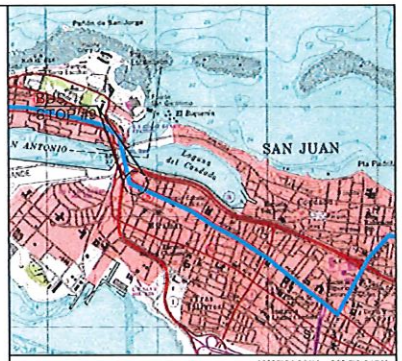
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE THE EXISTING TREE & INSTALL THE PROPOSED SIGN IN THE PLANTING AREA (SEE TO PHOTO #3).
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION, OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.



LOCATION PLAN
SCALE 1:20,000

18°27'24.59"N , 66° 5'8.84"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completas de las Tarjetas, certifico que se tiene que ellas, planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier enmienda, adición o modificación de los mismos que se haga o permita por desconocimiento o por negligencia, o sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5495

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #9

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. AFTER OLIMPO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

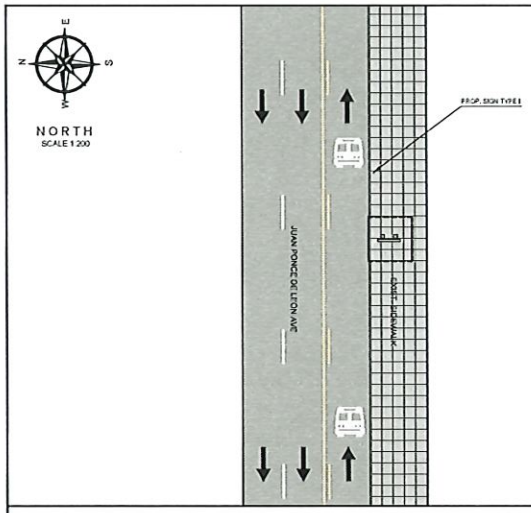
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.01	SHEET NO. 7 OF 88

ROUTE 5 | BUS STOP #10

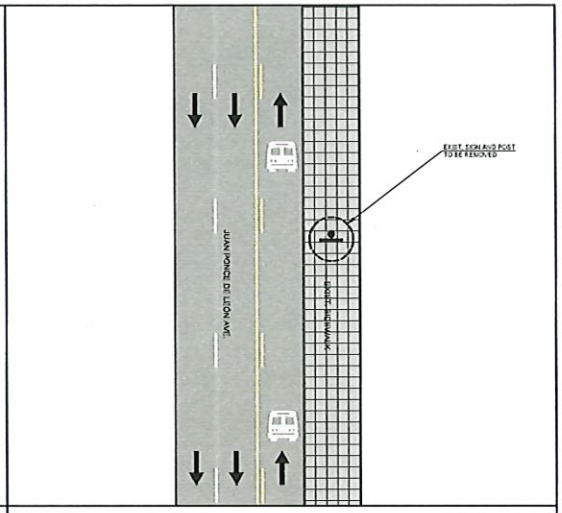
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

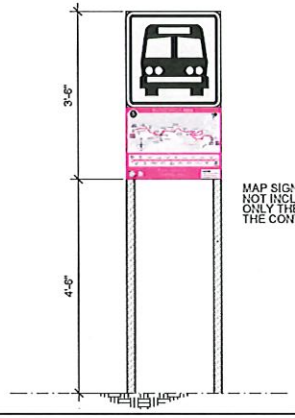


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#10



EXIST. CONDITIONS - ROUTE 5 | B.S.#10

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
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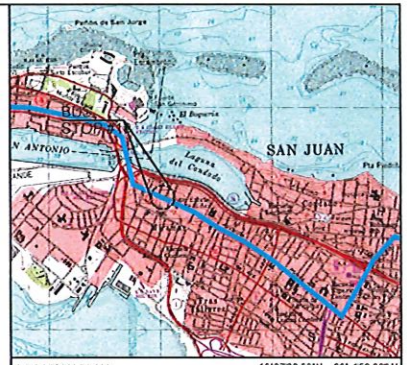
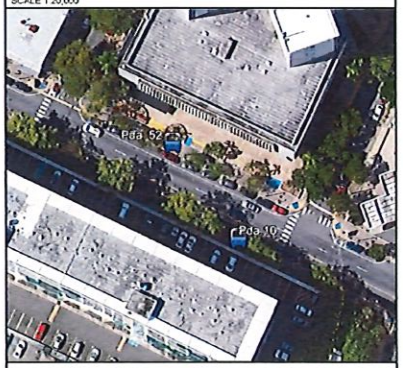
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PWD OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TILE TO INSTALL. BUY THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.80 M.



LOCATION PLAN
SCALE 1:20,000
18°27'20.83"N , 66° 4'59.86"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mi, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la COPA.

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TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #10

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE
OPPOSITE SIDE OF MADRID ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

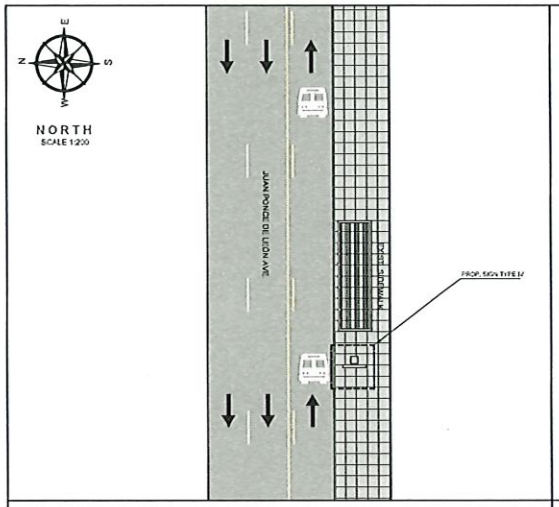
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.02	SHEET NO. 8 OF 88

ROUTE 5 | BUS STOP #11

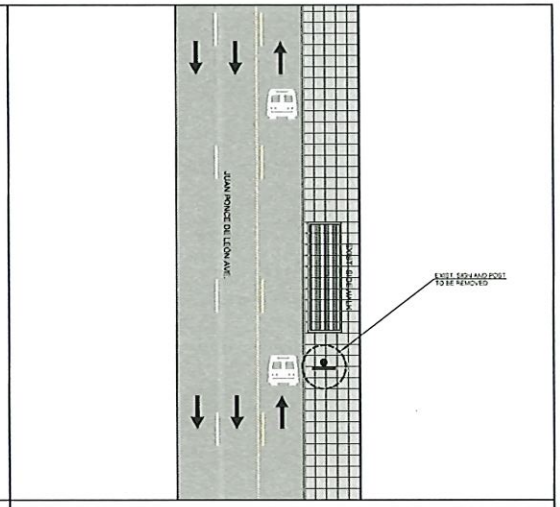
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

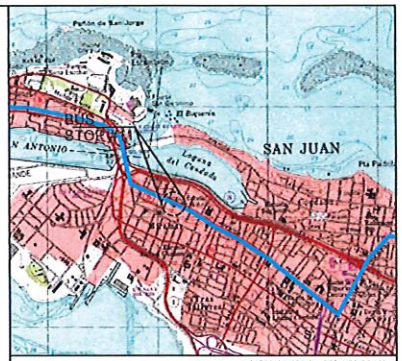


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#11



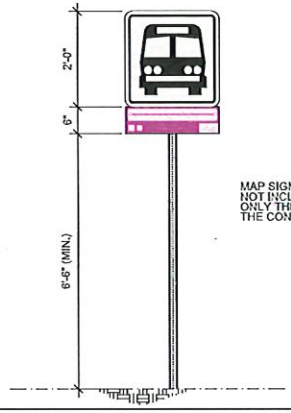
EXIST. CONDITIONS - ROUTE 5 | B.S.#11

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'17.69"N , 66° 4'53.02"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

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4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH FWD OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TILE TO INSTALL. BUY THREE TILES (3), REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.

Yo, Hernan E. Lopez Baez, Ingeniero Licenciado M-54, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que el diseño de estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Algunos de los Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #11

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE
OF WAYMOUTH ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

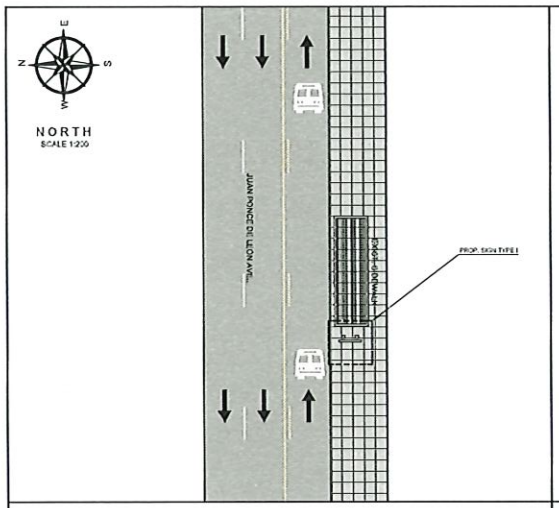
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.03	SHEET NO. 9 OF 88

ROUTE 5 | BUS STOP #12

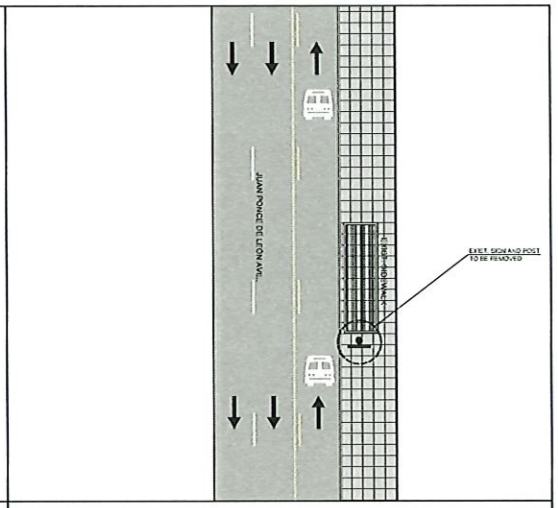
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

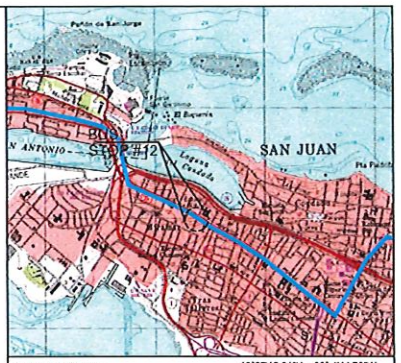


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#12



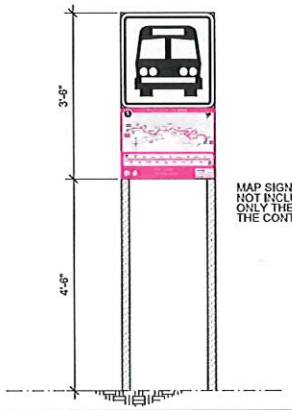
EXIST. CONDITIONS - ROUTE 5 | B.S.#12

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'12.81"N , 66° 4'44.76"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TYPES I, II, III AND IV THE EXISTING LOCATION. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PMO OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TIME TO INSTALL BUT THERE TYPE III, IV, (IV, REFER TO IP-107D-01).
6. THE VERTICAL DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18134, certifico que soy el profesional que contribuyó, diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier cambio sobre o falsificación de los hechos que se vean precedidos por desconocimiento, o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y delito tipificado por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaraño, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18134

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #12

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE CERRA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.04	SHEET NO. 10 OF 88

ROUTE 5 | BUS STOP #13

PHOTO - 1

PHOTO - 2

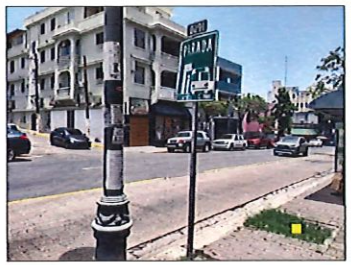
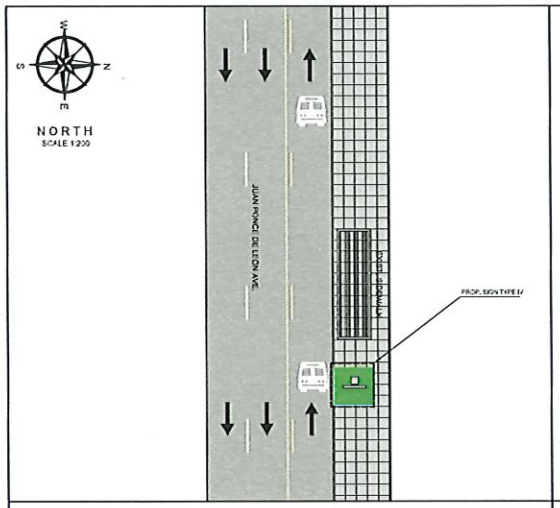
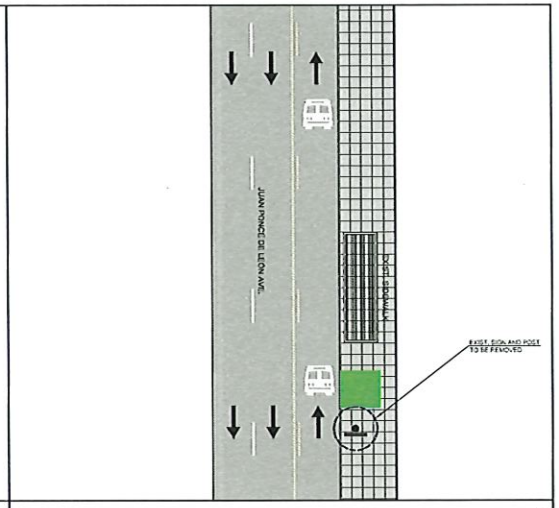


PHOTO - 3: PROPOSED SIGN LOCATION

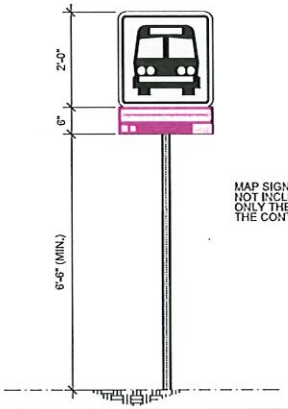


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#13



EXIST. CONDITIONS - ROUTE 5 | B.S.#13

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

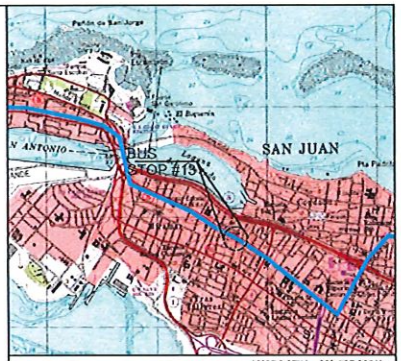
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

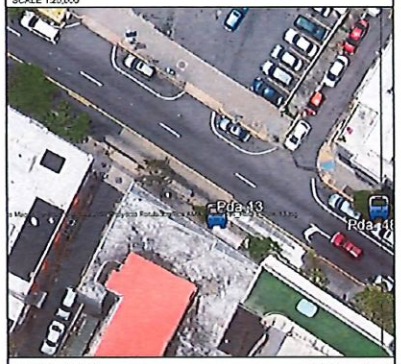
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PRES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION, OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.



LOCATION PLAN
SCALE 1:20,000

18°27'8.67"N , 65° 4'37.38"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-51, certifico que soy el profesional que certificó diseñó y/o preparó estos planos y las especificaciones completas incluyendo, pero sin excluir, que se ajustan a las leyes y reglamentaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aplicables de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación hecha a la(s) misma(s) por terceras personas sin mi consentimiento me hacer responsable de cualquier acción, solidaria o individual, por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaraño, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5495

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #13

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF RONCABADO ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

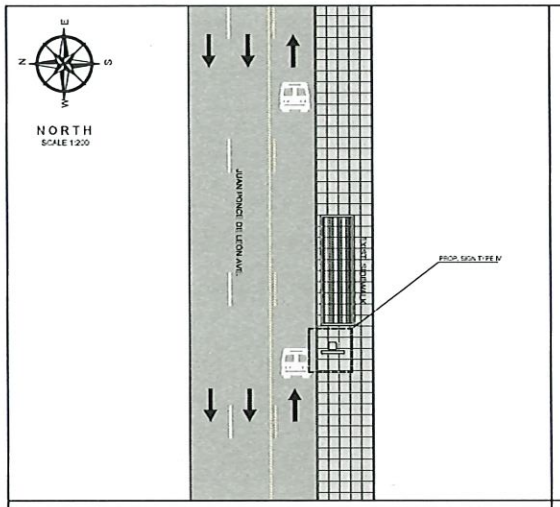
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.05	SHEET NO. 11 OF 88

ROUTE 5 | BUS STOP #14

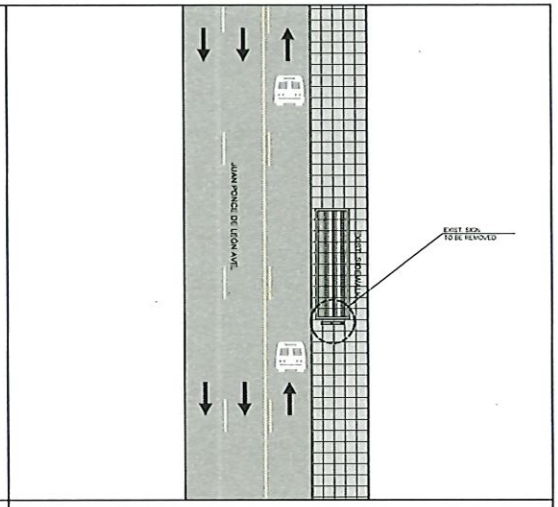
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

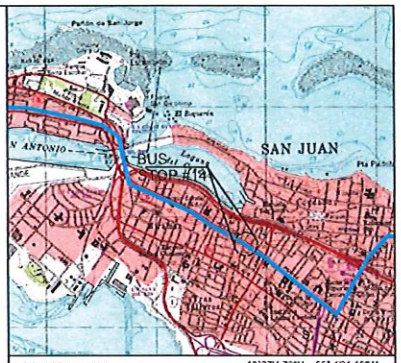


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#14

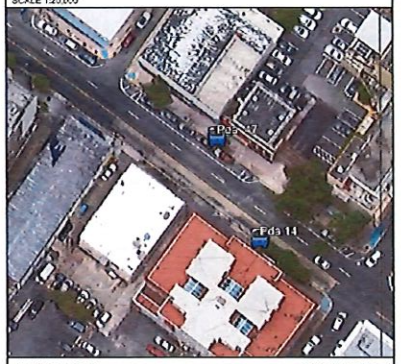


EXIST. CONDITIONS - ROUTE 5 | B.S.#14

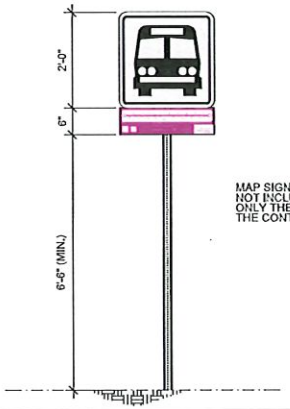
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'4.73"N , 66° 4'31.10"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #14

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE CONDADO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

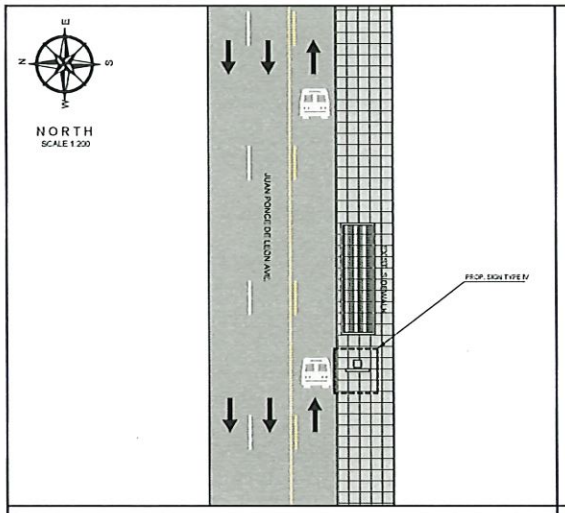
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.06	SHEET NO. 12 OF 88

ROUTE 5 | BUS STOP #11

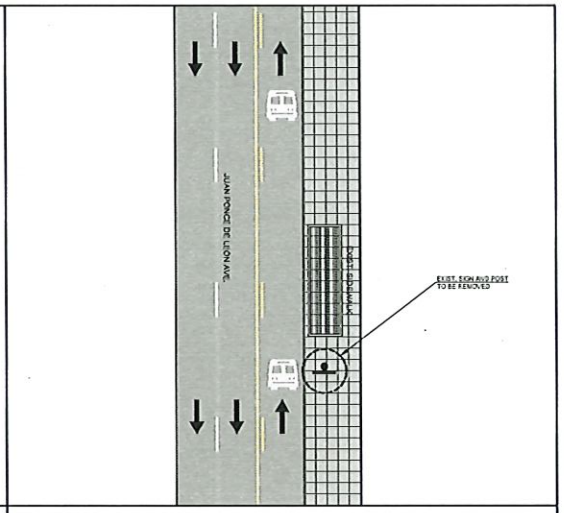
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

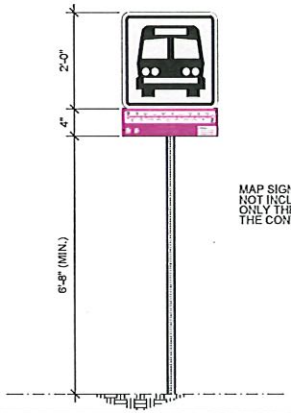


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#11



EXIST. CONDITIONS - ROUTE 5 | B.S.#11

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

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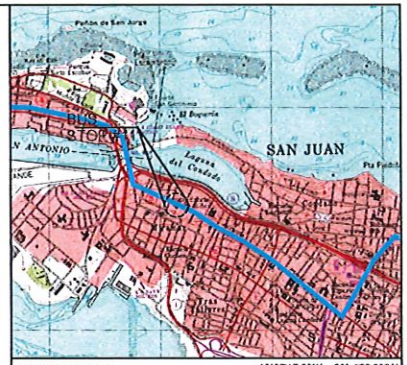
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PWD OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL, BUY THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.80 M.



LOCATION PLAN
SCALE 1:20,000
18°27'17.69"N , 66° 4'53.02"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y prepara estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPe.

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Gurabo, PR 00778
TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #11

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE
OF WAYMOUTH ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.05	SHEET NO. 13 OF 88

ROUTE 5 | BUS STOP #16

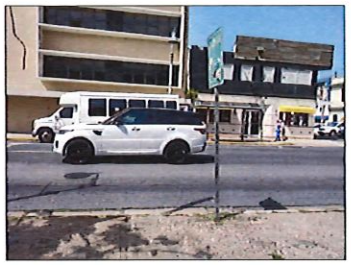
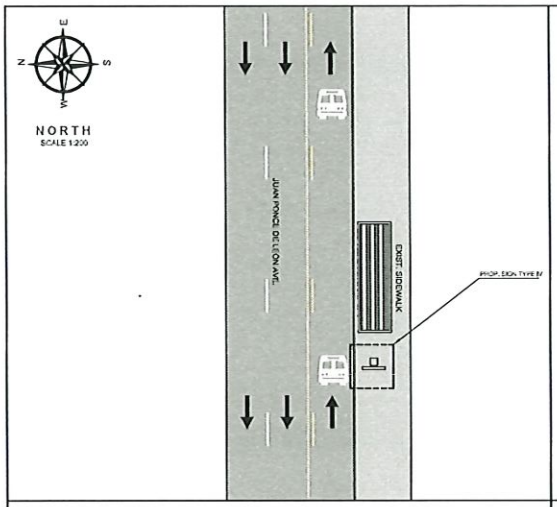


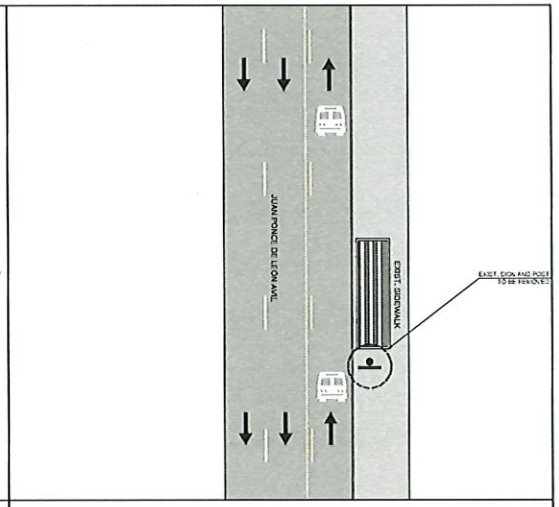
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

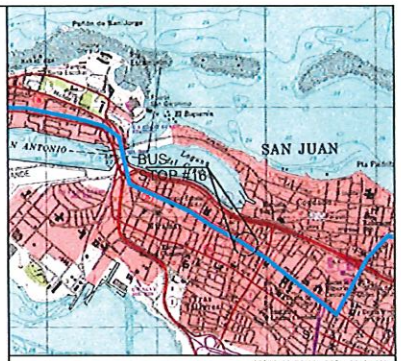


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#16



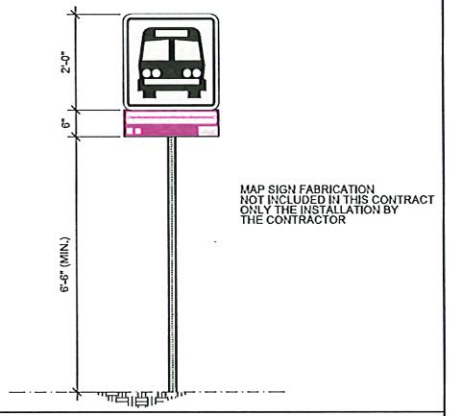
EXIST. CONDITIONS - ROUTE 5 | B.S.#16

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°26'55.55"N , 65° 4'20.14"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA, REFER TO PHOTO #3.

Yo Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseño y/o preparó estos planos y las especificaciones complementarias. También certifico que el diseño que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Guraboo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #16

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. AFTER OPPOSITE SIDE
OF DUFFAUT ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.08	SHEET NO. 14 OF 88

ROUTE 5 | BUS STOP #17

PHOTO - 1

PHOTO - 2

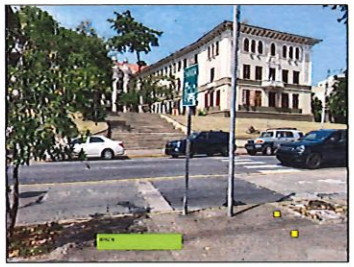
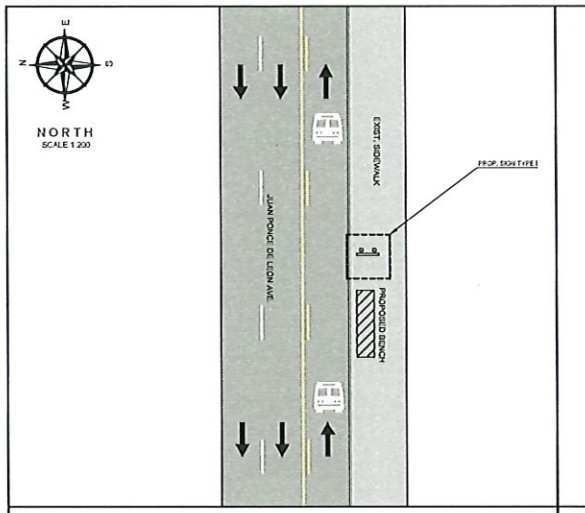
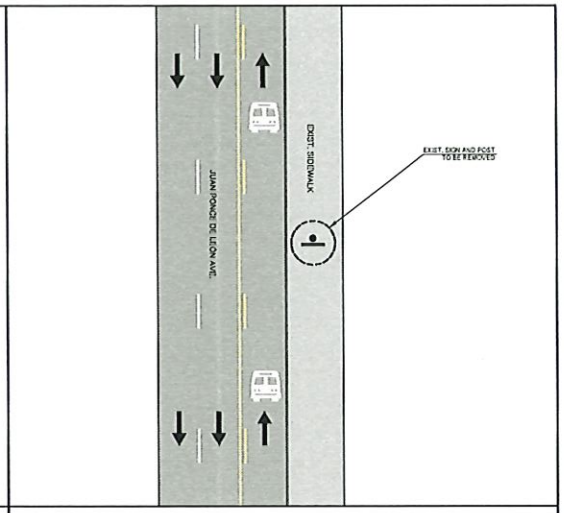


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#17



EXIST. CONDITIONS - ROUTE 5 | B.S.#17

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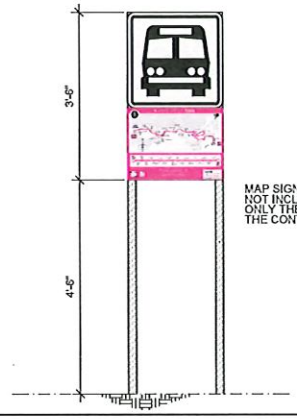
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

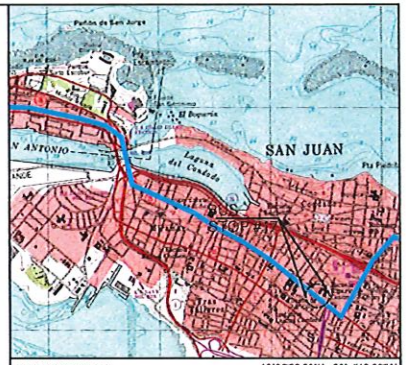
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FIRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION
- PROPOSED BENCH

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, EXECUTION AND PRIOR PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FIRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED BENCH AND SIGN IN THE SIDEWALK AREA. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. THE CONTRACTOR SHALL TRIM THE BRANCHES TREE.



LOCATION PLAN
SCALE 1:20,000
18°26'50.82"N , 66° 4'12.93"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.66.42 PRO

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18164, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18164PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #17

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE LLOVERAS ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-1.09	SHEET NO. 15 OF 88

ROUTE 5 | BUS STOP #18

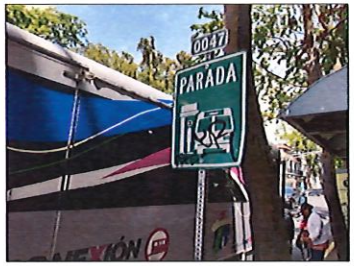
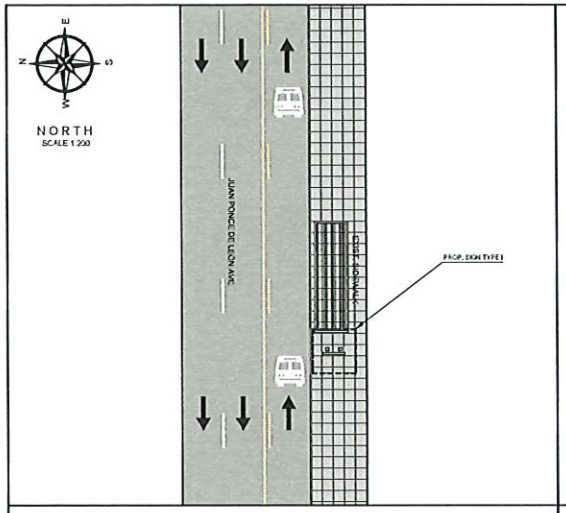


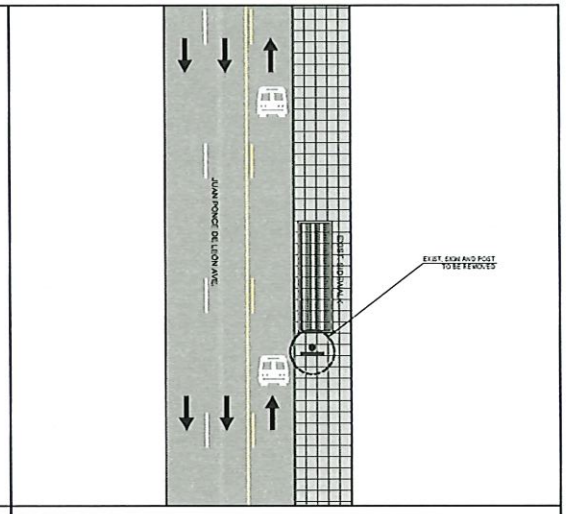
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

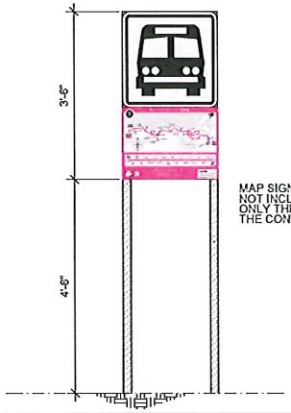


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#18



EXIST. CONDITIONS - ROUTE 5 | B.S.#18

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE I

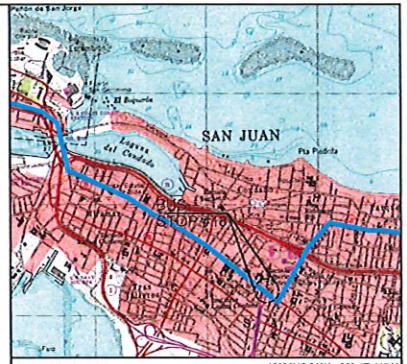
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FIRES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PWD OF THE MUNICIPALITY OF SAN JUAN, ABOUT THE SAME TILE TO INSTALL, BUY THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.80 M.



LOCATION PLAN
SCALE 1:20,000
18°26'46.81"N , 66° 47.41"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y a proyecto estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias. Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DGPe.

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INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #18

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE
OF DE DIEGO AVE. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

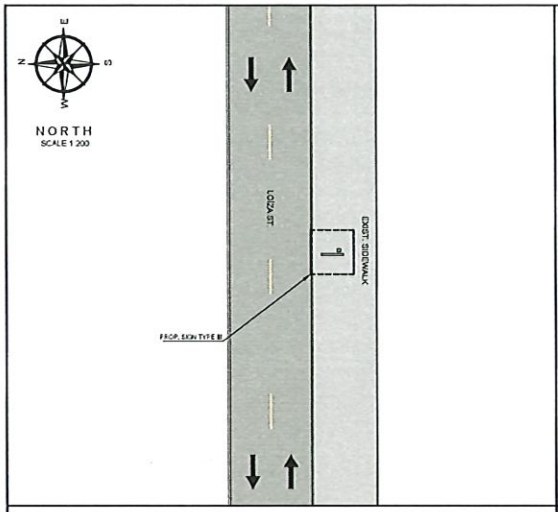
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.10	SHEET NO. 16 OF 88

ROUTE 5 | BUS STOP #22

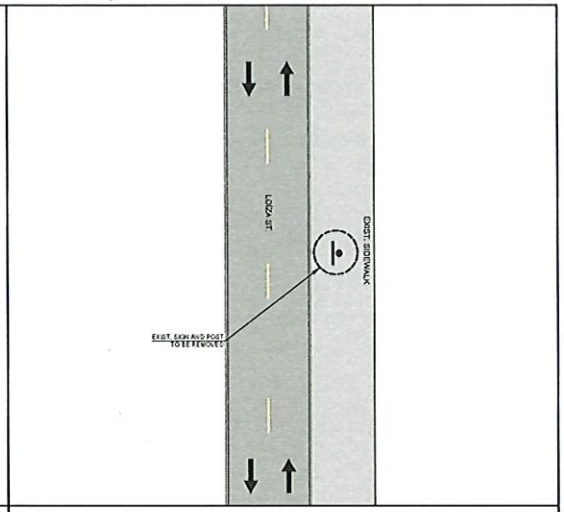
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

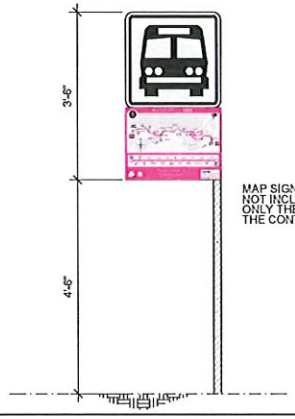


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#22



EXIST. CONDITIONS - ROUTE 5 | B.S.#22

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE III

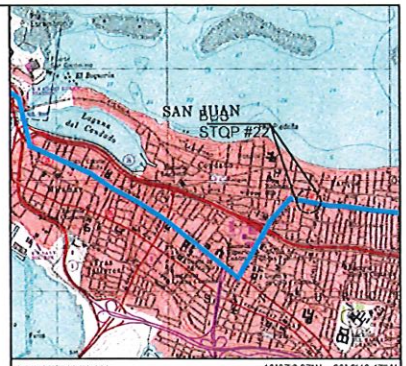
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FIRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE FIRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPSED CANTILEVER SIGN NEXT TO PROPERTY'S WALL. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.50 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.



LOCATION PLAN
SCALE 1:20,000
18°27'6.87"N , 65° 3'46.47"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

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INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #22

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. INT. DEL PARQUE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

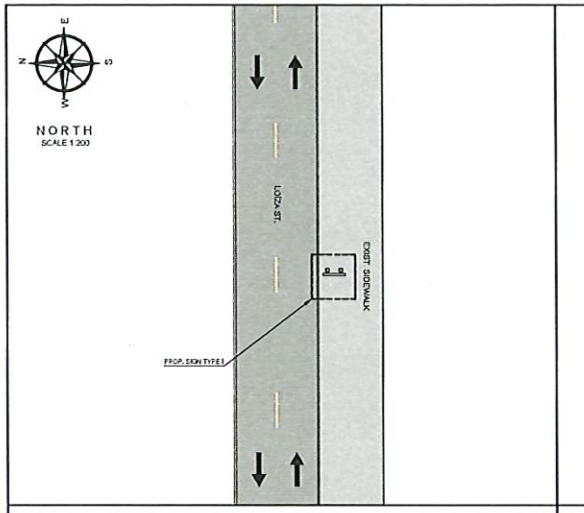
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.11	SHEET NO. 17 OF 88

ROUTE 5 | BUS STOP #23

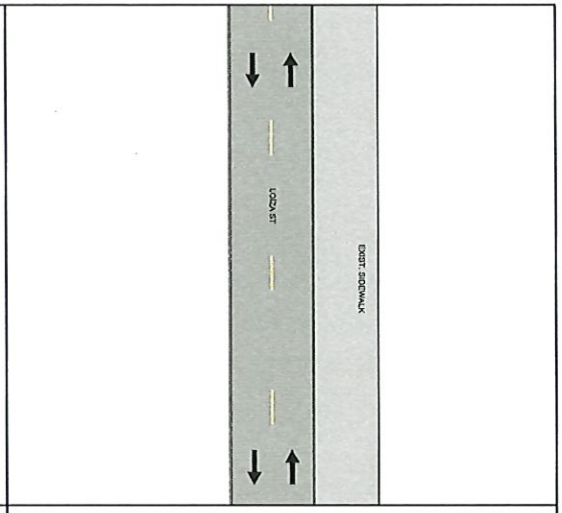
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

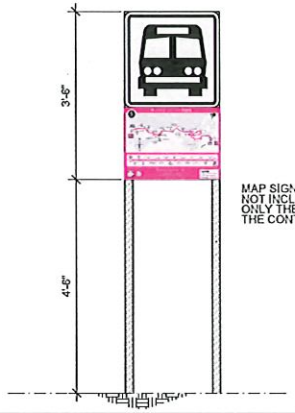


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#23



EXIST. CONDITIONS - ROUTE 5 | B.S.#23

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

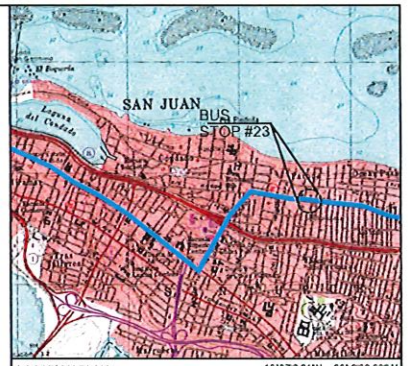
NOT TO SCALE

LEGEND:

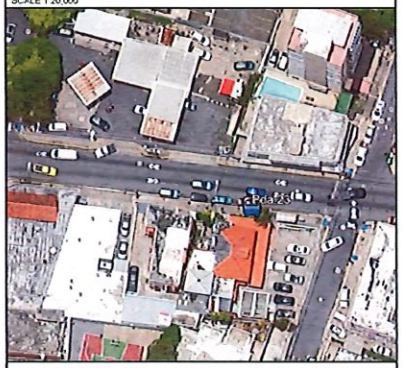
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
4. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.50 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°27'6.01"N , 66° 3'39.99"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completamente. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Renuncio que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #23

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. INT. TAFT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

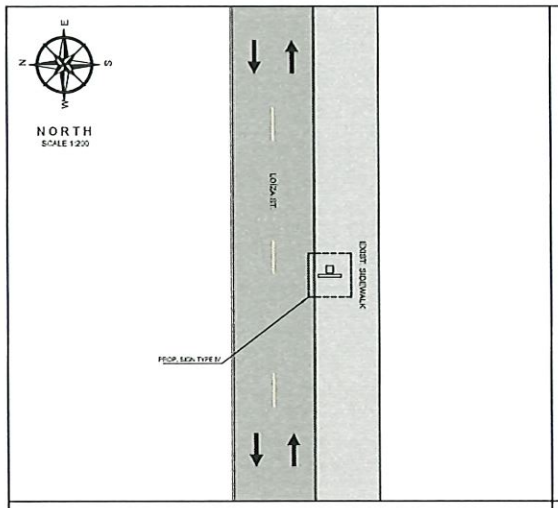
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-1.12	SHEET NO. 18 OF 88

ROUTE 5 | BUS STOP #24

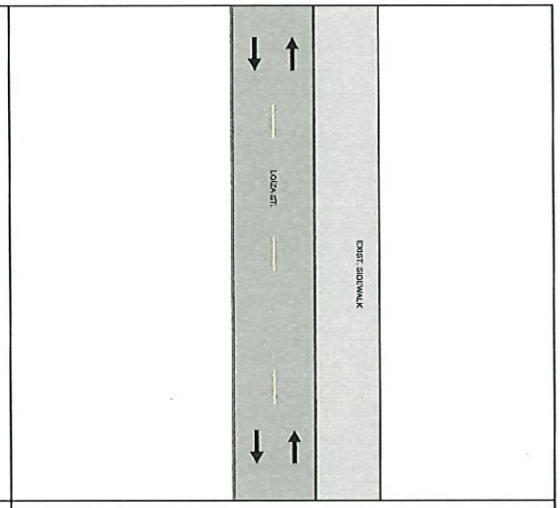
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

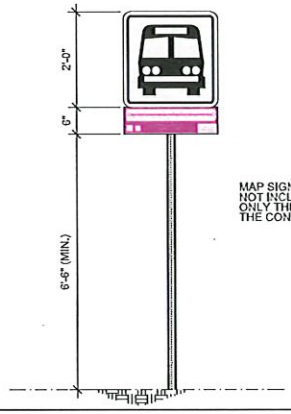


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#24



EXIST. CONDITIONS - ROUTE 5 | B.S.#24

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
4. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

LOCATION PLAN
SCALE 1:20,000
18°27'5.04"N , 66° 3'32.46"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y/o proyectó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #24

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE JEFFERSON ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.13	SHEET NO. 19 OF 88

ROUTE 5 | BUS STOP #25

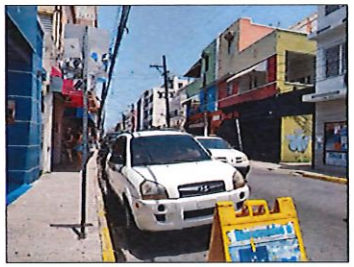
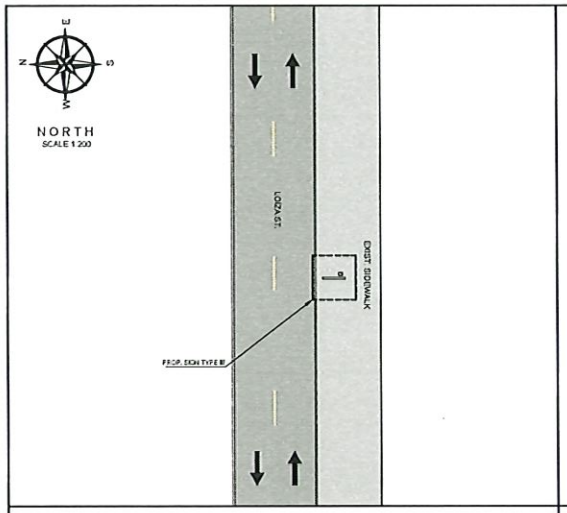


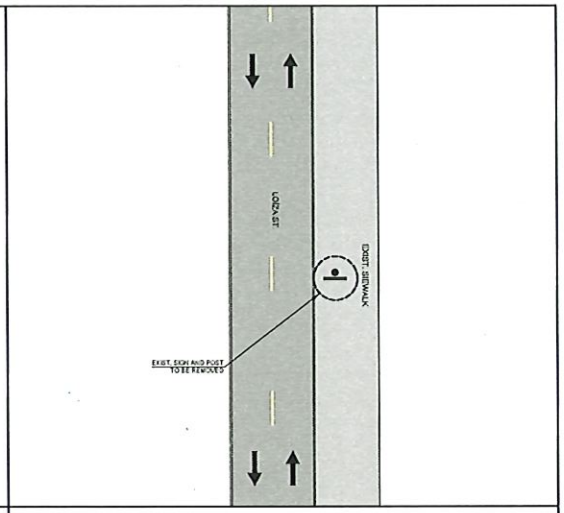
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

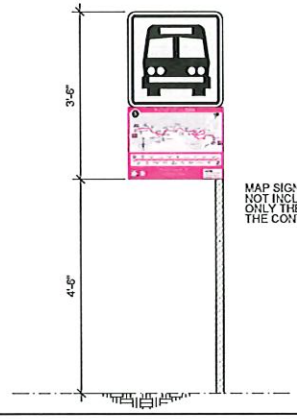


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#25



EXIST. CONDITIONS - ROUTE 5 | B.S.#25

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE III

NOT TO SCALE

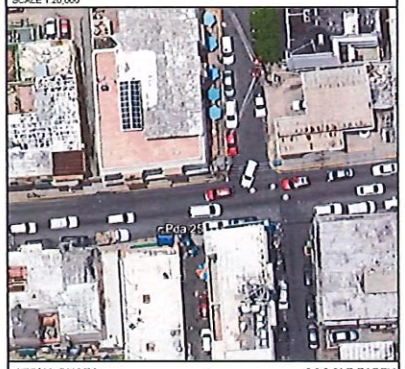
LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE THE EXISTING POST WITHOUT SIGN IN FRONT OF THE PROPERTY & SHALL INSTALL THE PROPOSED SIGN IN THIS LOCATION. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
8. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

LOCATION PLAN
SCALE 1:20,000
18°27'4.29"N , 66° 3'27.01"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y preparo estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPA.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #25

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE APONTE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

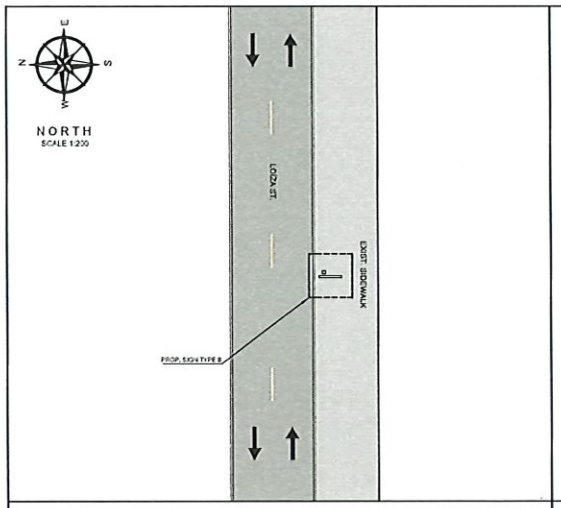
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.14	SHEET NO. 20 OF 88

ROUTE 5 | BUS STOP #26

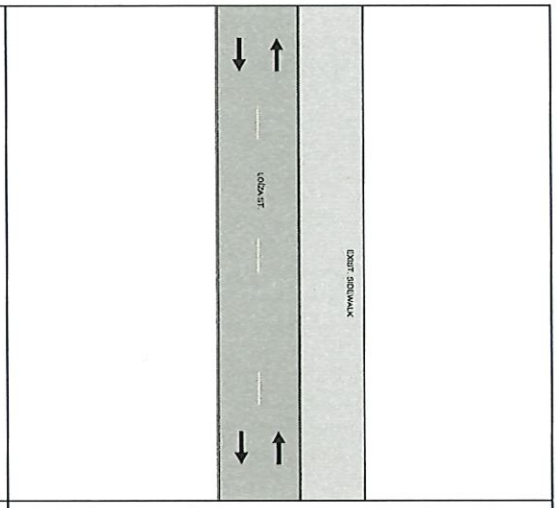
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

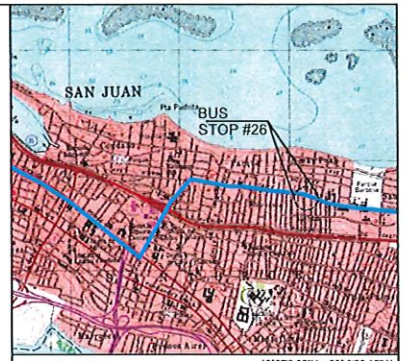


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#26

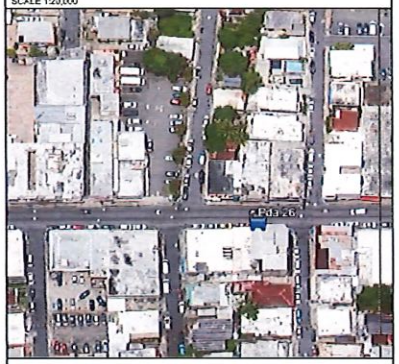


EXIST. CONDITIONS - ROUTE 5 | B.S.#26

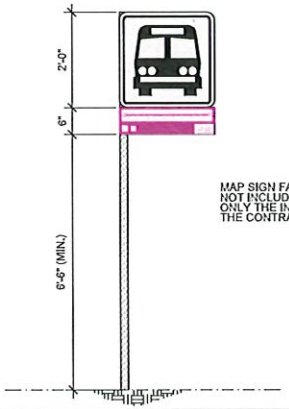
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'3.85"N , 65° 3'22.15"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE II

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK IN FRONT OF THE WOODEN POLE. REFER TO PHOTO #3.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.85 M.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 13154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #26

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE MARÍA MOCZO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

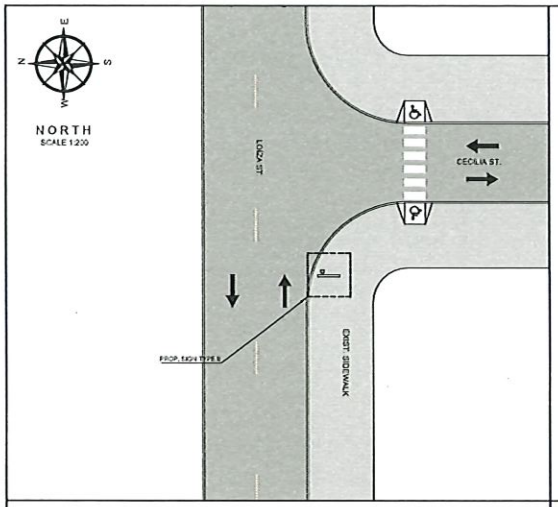
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.15	SHEET NO. 21 OF 88

ROUTE 5 | BUS STOP #27

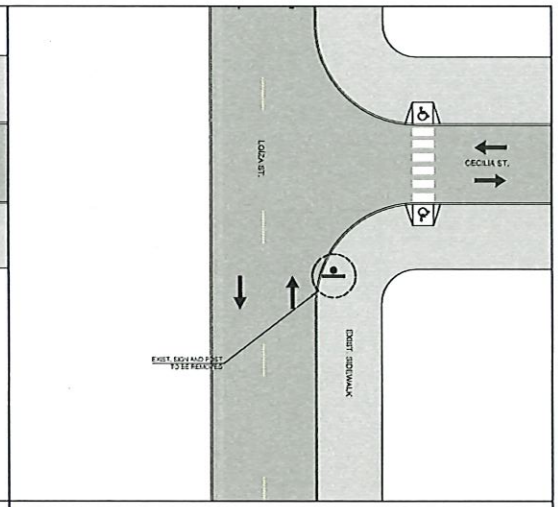
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

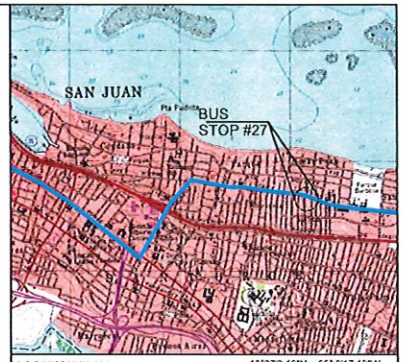


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#27



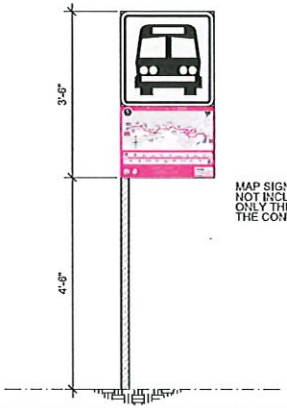
EXIST. CONDITIONS - ROUTE 5 | B.S.#27

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'3.16"N , 66° 3'17.13"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE II

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
7. THE CONTRACTOR SHALL SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero Licencia Nº 54, certifico que soy el profesional que confeccionó, diseño y/o preparó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Algunos de los Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 13154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #27

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. INT. SANTA CECILIA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

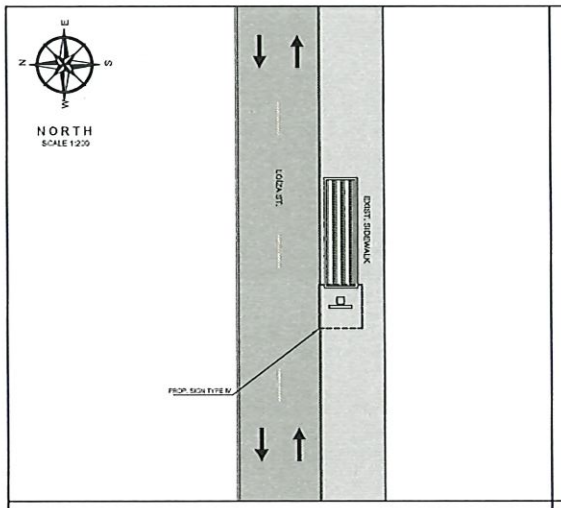
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.16	SHEET NO. 22 OF 88

ROUTE 5 | BUS STOP #28

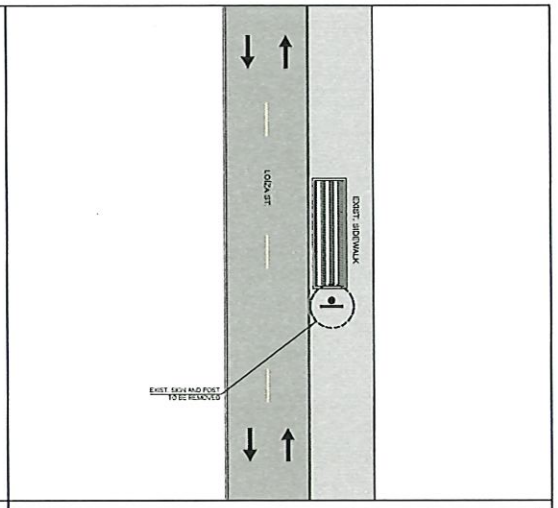
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

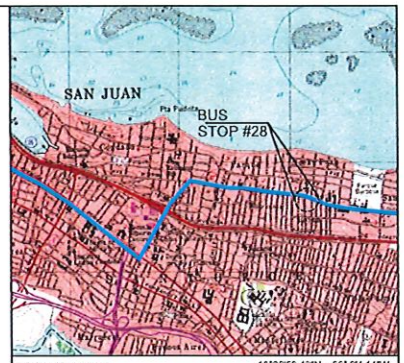


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#28



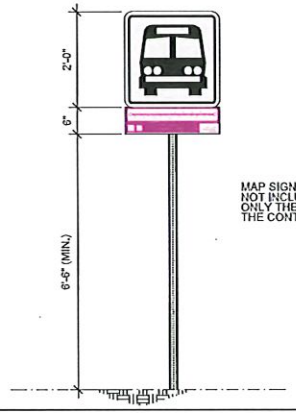
EXIST. CONDITIONS - ROUTE 5 | B.S.#28

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°26'59.43"N , 66° 3'4.14"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
6. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que certificó, diseñó y/o preparó estos planos y las especificaciones complementarias. Certifico certifico que el diseño que aparece en estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto, las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de los Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación falsa o falsificación de los hechos que se haya producido por desconocimiento, por negligencia o por error, nos hará responsables de cualquier acción judicial y/o civil que pueda ser interpuesta por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5-SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #28

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. AFTER OPPOSITE SIDE OF RAMPLA DEL ALMIRANTE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

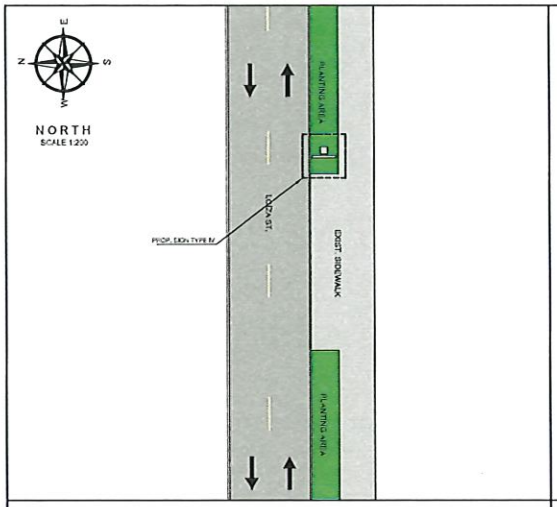
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.17	SHEET NO. 23 OF 88

ROUTE 5 | BUS STOP #29

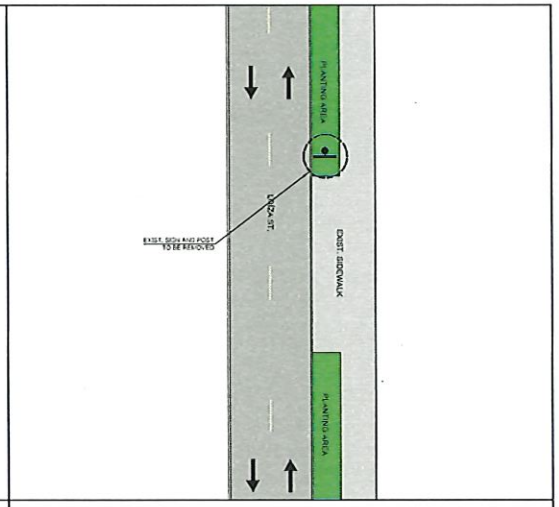
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#29

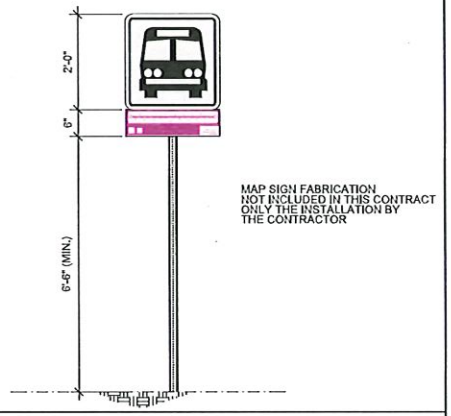


EXIST. CONDITIONS - ROUTE 5 | B.S.#29

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°26'58.05"N , 66° 2'53.77"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.62 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero Licenciado M-54, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones completas de los Terminos, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #29

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE PROVIDENCIA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

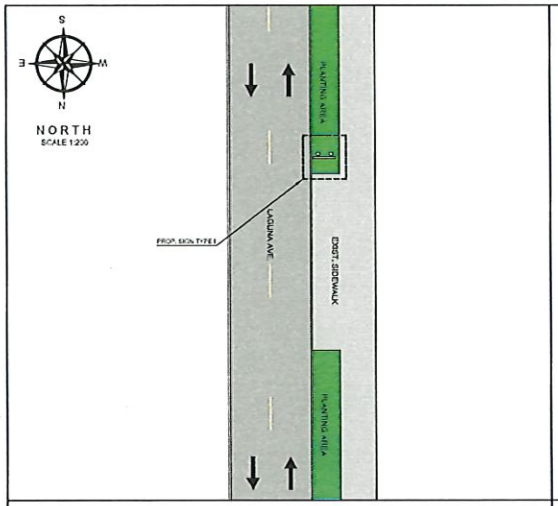
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.18	SHEET NO. 24 OF 88

ROUTE 5 | BUS STOP #47

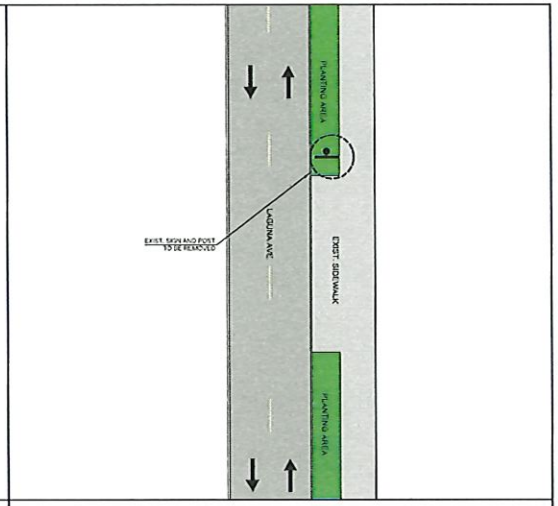
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

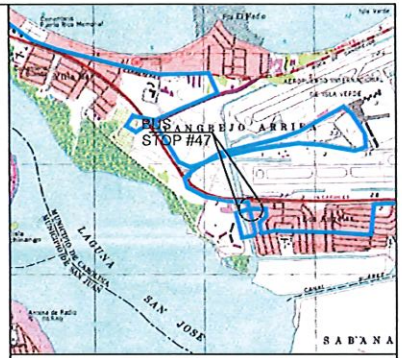


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#47

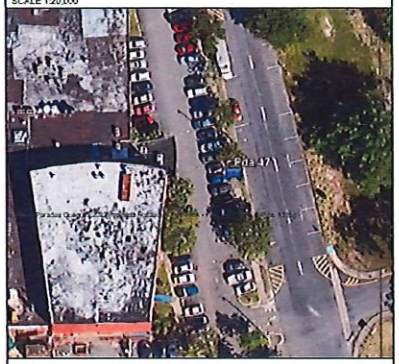


EXIST. CONDITIONS - ROUTE 5 | B.S.#47

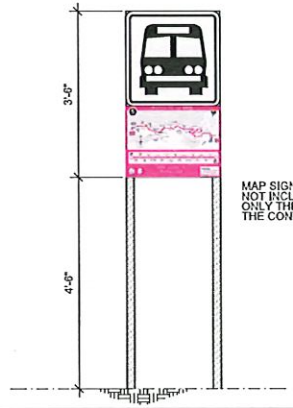
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'52.63"N , 66° 0'55.17"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTIN AREA. REFER TO PHOTO 3.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #47

FROM SAN JUAN TO ITURREGUI AVENUE
LAGUNA AVENUE BEFORE OPPOSITE SIDE OF ACUARIO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.19	SHEET NO. 25 OF 88

ROUTE 5 | BUS STOP #48

PHOTO - 1

PHOTO - 2

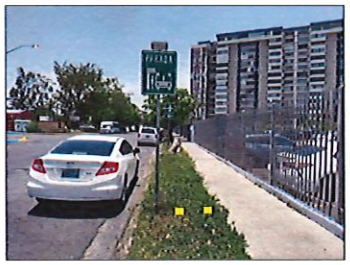
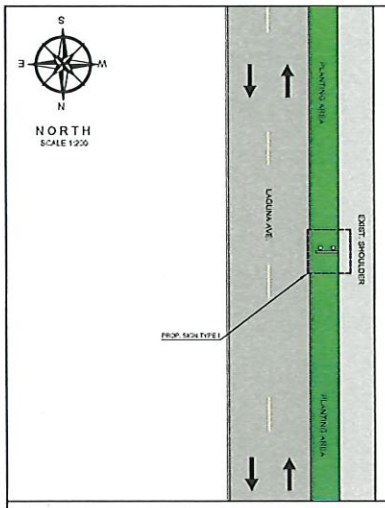
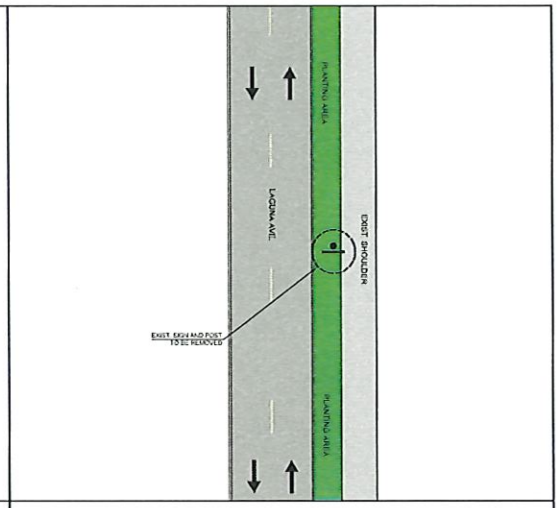


PHOTO - 3: PROPOSED SIGN LOCATION

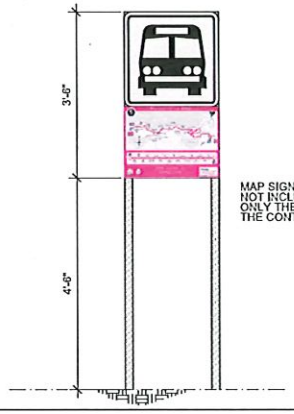


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#48



EXIST. CONDITIONS - ROUTE 5 | B.S.#48

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

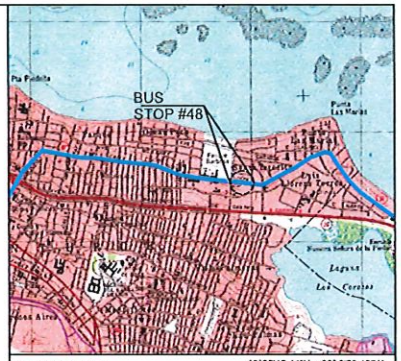
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.



LOCATION PLAN
SCALE 1:20,000

18°25'45.44"N , 66° 0'53.48"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que certificaremos, diseñé y/o preparé estas planos y las especificaciones, cumplen y están Técnicas certifico que en diseño que Actos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, que no por mi, mis agentes o empleados o por otras personas con el consentimiento, me hacer responsable de cualquier acción Solidaria y disciplinaria por la OGPe.

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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18-34

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #48

FROM SAN JUAN TO ITURREGUI AVENUE
LAGUNA AVENUE BEFORE OPPOSITE SIDE OF LUNA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

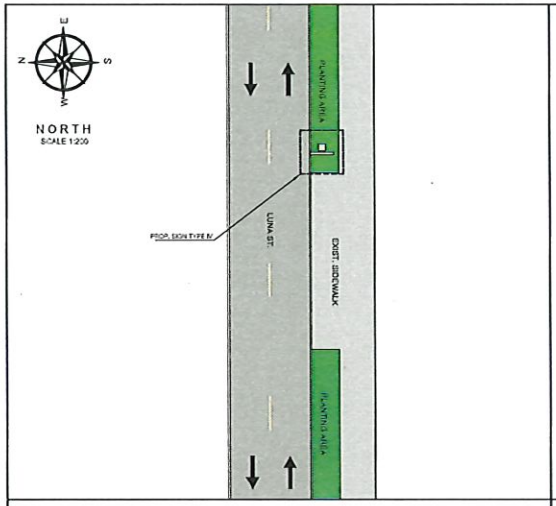
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.20	SHEET NO. 26 OF 88

ROUTE 5 | BUS STOP #49

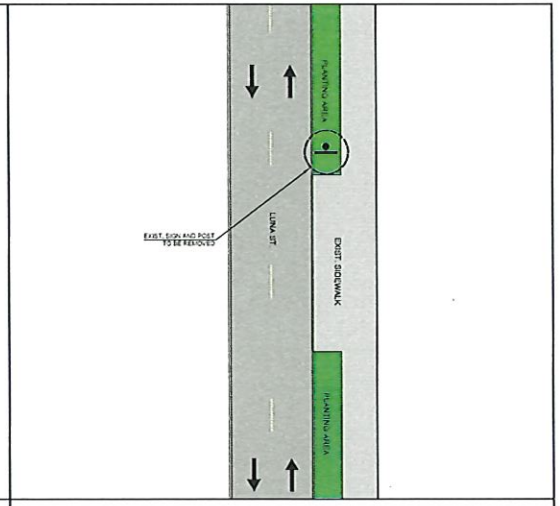
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

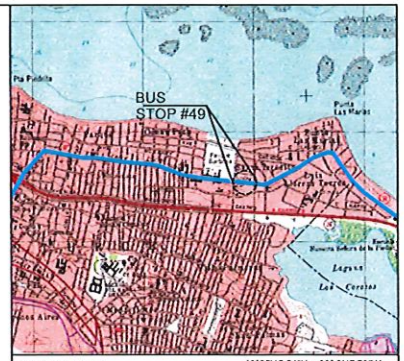


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#49



EXIST. CONDITIONS - ROUTE 5 | B.S.#49

2.5 0 5 15
SCALE 1:200

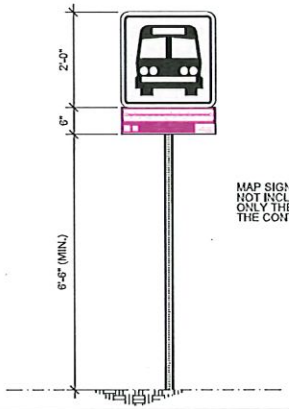


LOCATION PLAN
SCALE 1:20,000

18°25'45.21"N , 66° 0'47.79"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA 2'-0" BEHIND EXISTING LOCATION. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. Tambien certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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Guaynabo, PR 00778
TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #49

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. INT. ANDRÓMEDA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

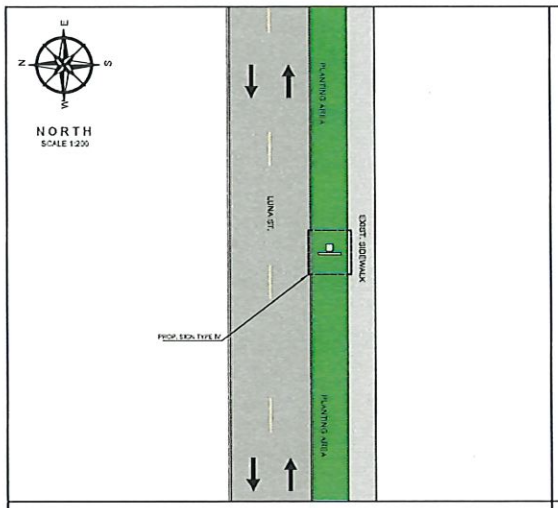
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.21	SHEET NO. 27 OF 88

ROUTE 5 | BUS STOP #50

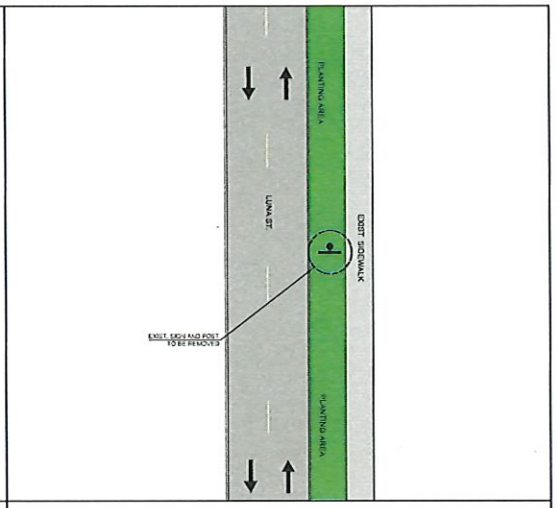
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

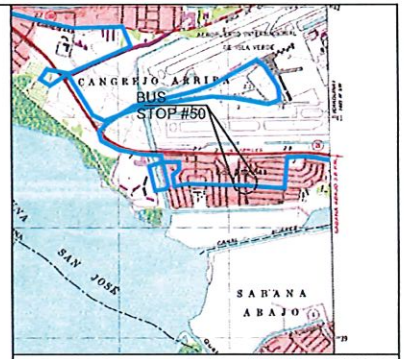


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#50



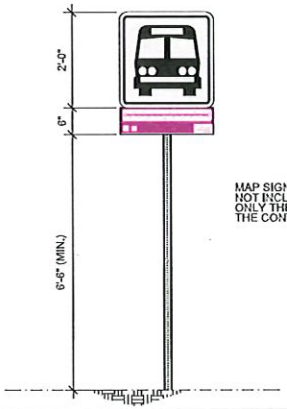
EXIST. CONDITIONS - ROUTE 5 | B.S.#50

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'45.96"N , 66° 0'36.24"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, 3'-0" IN FRONT THE EXISTING ELECTRICAL POLE MOUNTED TRANSFORMER. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6'-0" M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, cumplieron todos, formales, certifico que en dichos planos y especificaciones cumplir con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas, Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier incumplimiento total o satisfacción de los hechos que se vaya producir por desconocimiento, por negligencia, por mi, mi agente o empleados, o por otra persona con el consentimiento, me hacer responsable de cualquier acción judicial y administrativa por la OGPe.

ENZO Engineering, psc.
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #50

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. INT. ASTRO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

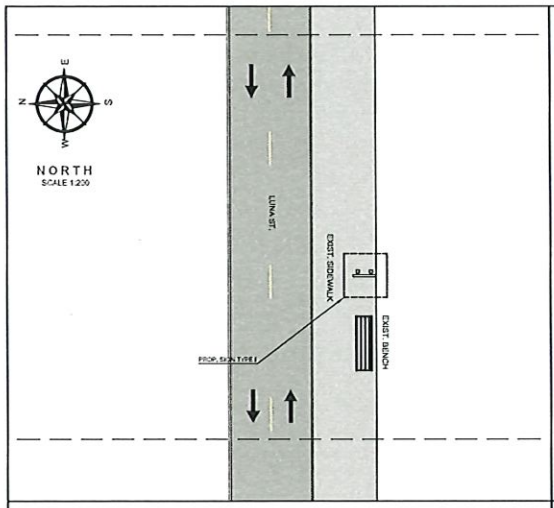
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.22	SHEET NO. 28 OF 88

ROUTE 5 | BUS STOP #51

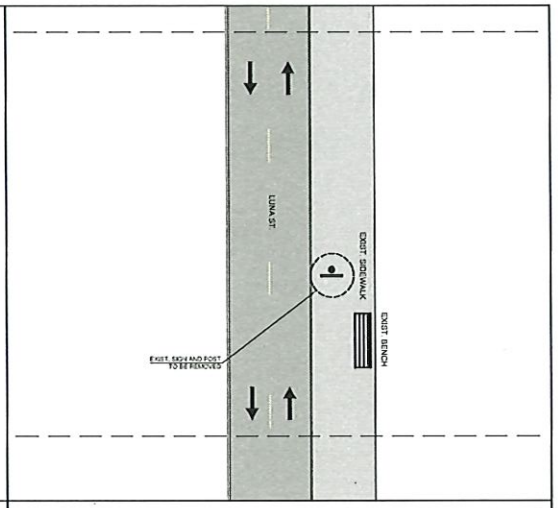
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

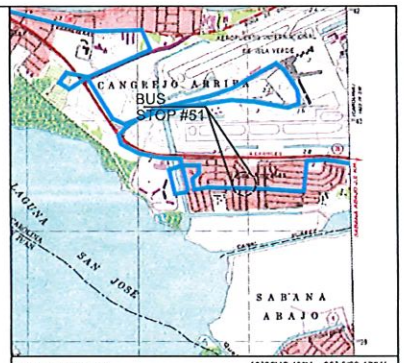


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#51



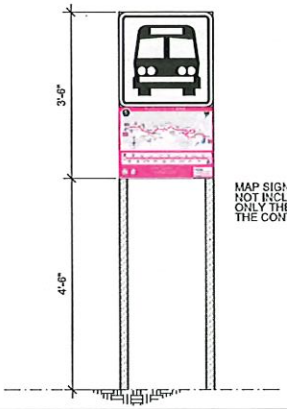
EXIST. CONDITIONS - ROUTE 5 | B.S.#51

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'45.49"N , 66° 0'29.17"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK, NEXT TO BRIDGE WALL PAPER TO INSTEAD.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que confeccionó, diseñó y/o preparó estas planos y las especificaciones complete bajo. Certifico, además, que el diseño que dicho plano y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aplicables de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación futura o falsificación de los hechos que se haya producido por desconocimiento, por negligencia, por error o por omisión de mi parte, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #51

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. BEFORE TAURO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

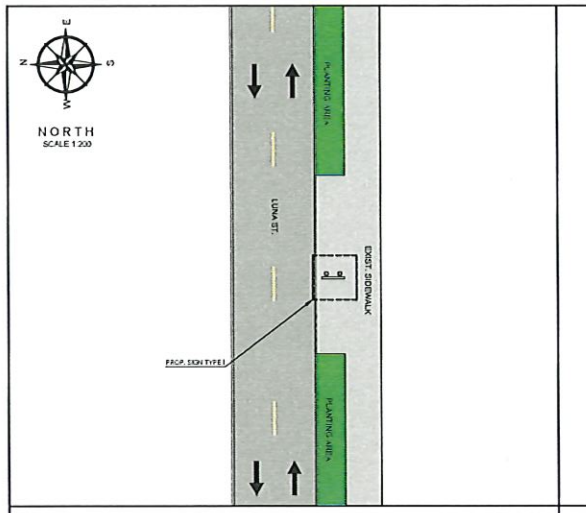
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.23	SHEET NO. 29 OF 88

ROUTE 5 | BUS STOP #52

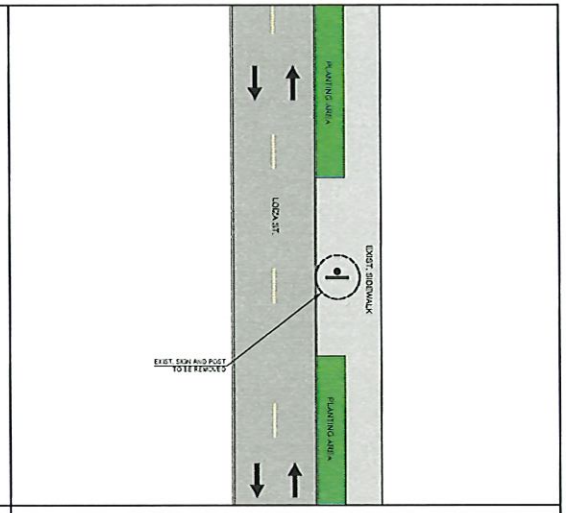
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

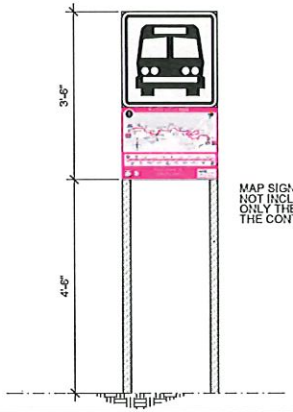


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#52



EXIST. CONDITIONS - ROUTE 5 | B.S.#52

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE I

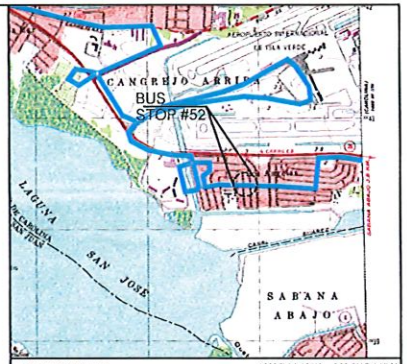
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°25'44.19"N , 66° 0'15.11"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseño y a prepara estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DGPe.

ENZO Engineering, psc.
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #52

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. BEFORE SOL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

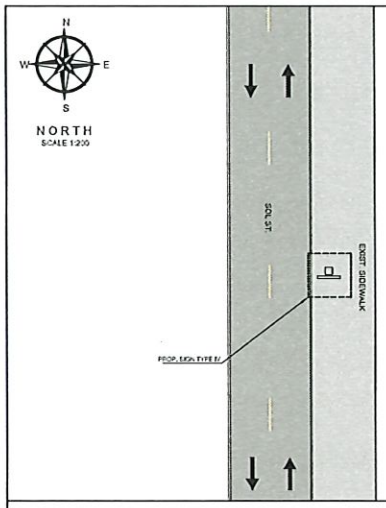
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-1.24	SHEET NO. 30 OF 88

ROUTE 5 | BUS STOP #53

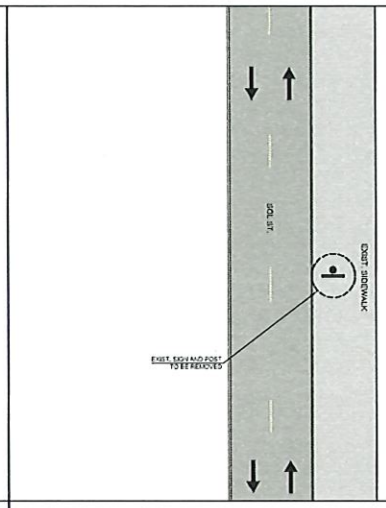
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

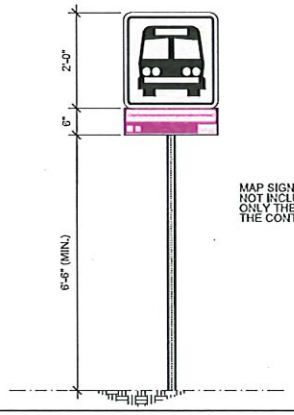


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#53



EXIST. CONDITIONS - ROUTE 5 | B.S.#53

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

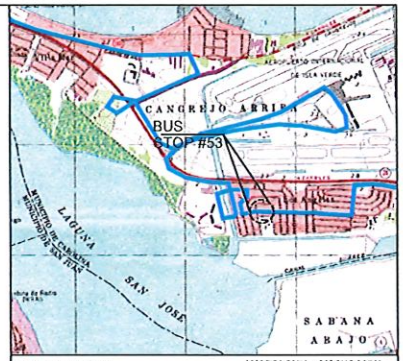
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

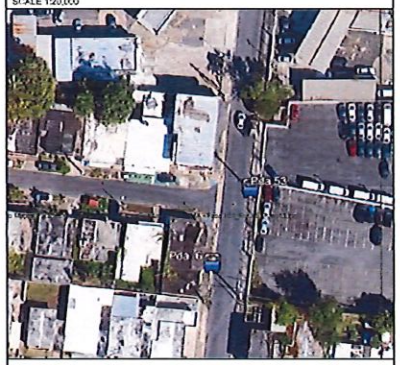
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'51.50"N , 66° 0'12.38"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que conceptualizó, diseñó y preparó estos planos y las especificaciones cumpliendo estas, también certifico que en donde dice dichos planos y especificaciones cumplir con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #53

FROM SAN JUAN TO ITURREGUI AVENUE
SOL ST. OPPOSITE SIDE OF SAGITARIO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

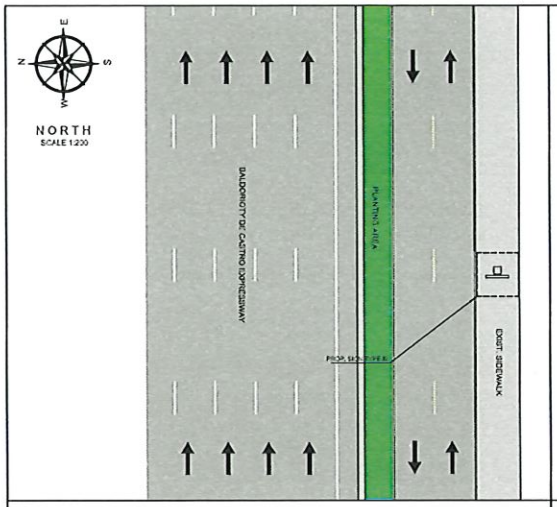
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.25	SHEET NO. 31 OF 88

ROUTE 5 | BUS STOP #54

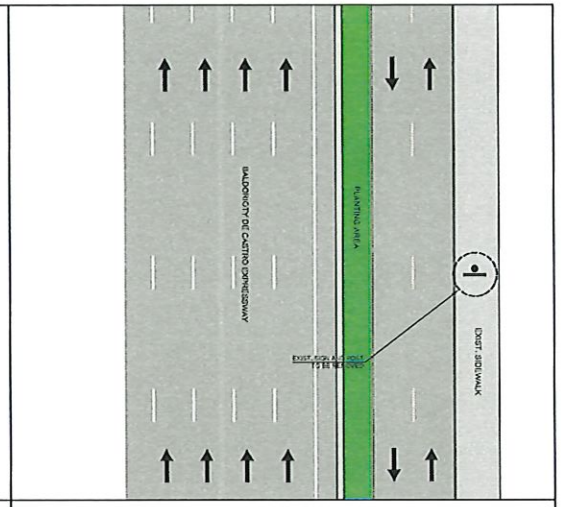
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

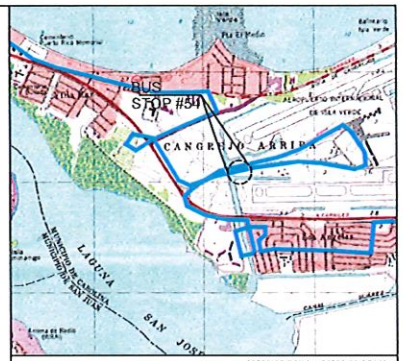


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#54



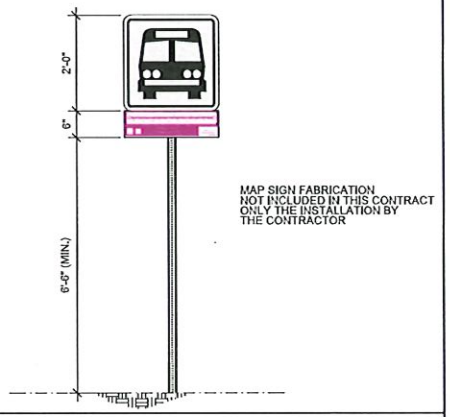
EXIST. CONDITIONS - ROUTE 5 | B.S.#54

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'52.72"N , 65°59'59.35"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA, IN FRONT OF THE PROPERTY WALL. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo Hernan E. Lopez Baez, Ingeniero Licenciado TS-54, certifico que soy el profesional que confeccionó, diseño y/o preparó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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Gurabo, PR 00778
TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #54

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT METHODIST CHURCH
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

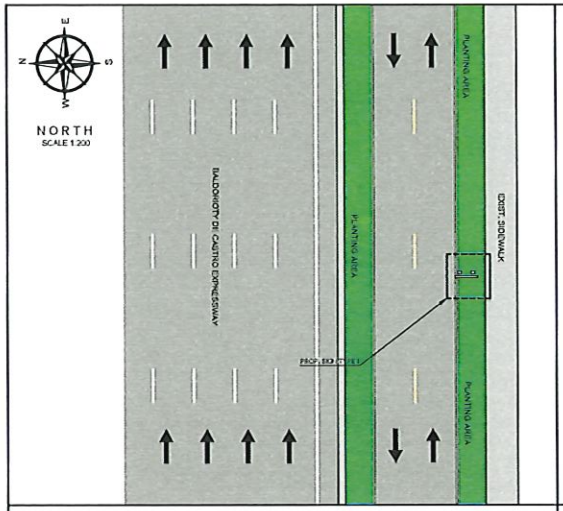
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.26	SHEET NO. 32 OF 88

ROUTE 5 | BUS STOP #55

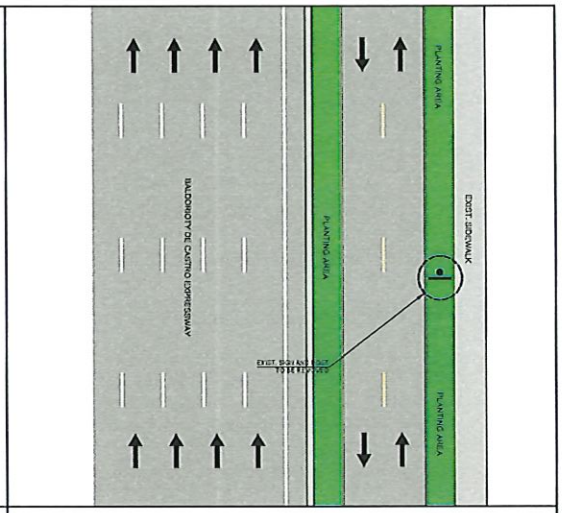
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

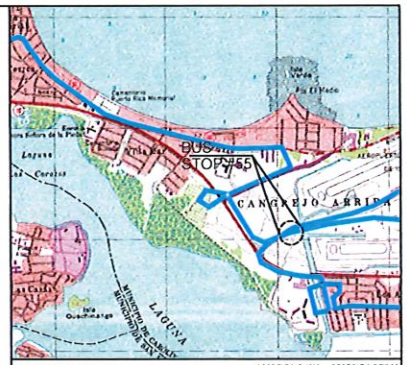


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#55

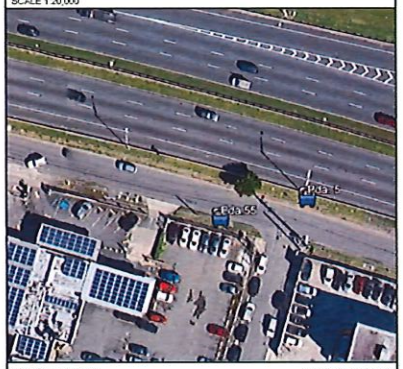


EXIST. CONDITIONS - ROUTE 5 | B.S.#55

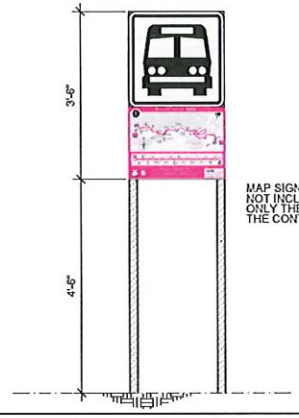
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'51.84"N , 65°59'54.35"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 10154, certifico que soy el profesional que confeccione, diseño y prepare estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de los Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPs.

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Gurabo, PR 00778
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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 10154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #55

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL INT. JOAQUINA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

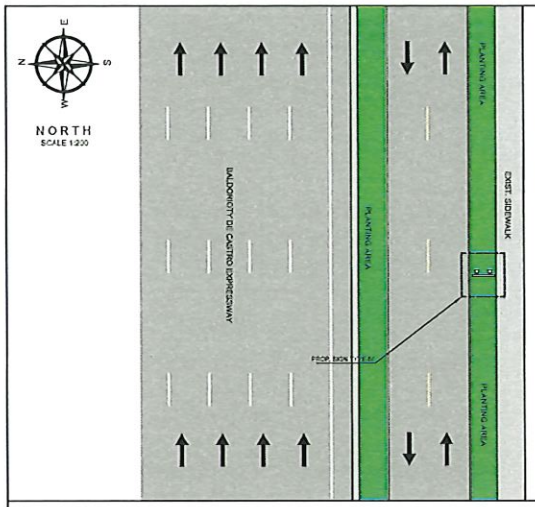
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.27	SHEET NO. 33 OF 88

ROUTE 5 | BUS STOP #56

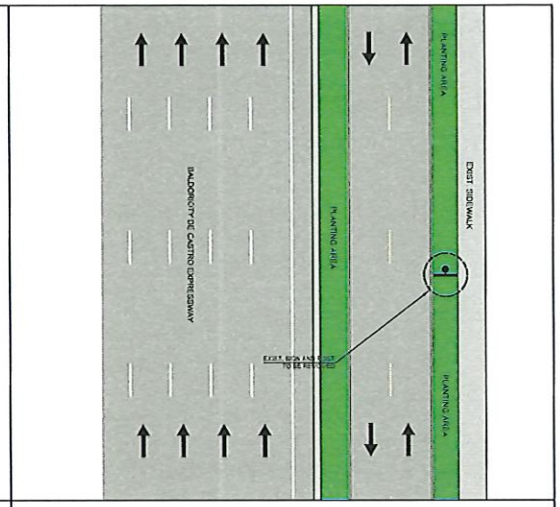
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

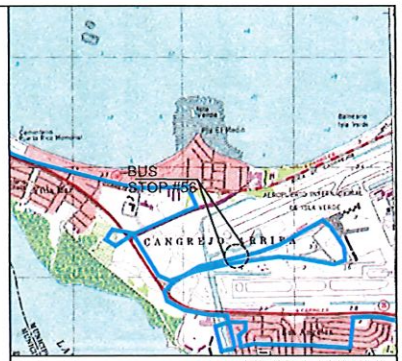


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#56



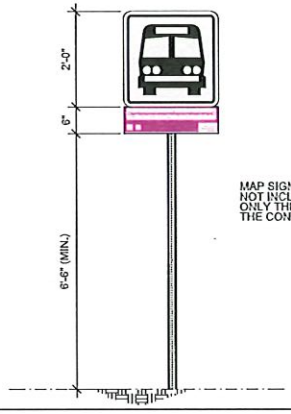
EXIST. CONDITIONS - ROUTE 5 | B.S.#56

2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°25'49.02"N , 65°59'44.69"W
SCALE 1:20,000

AERIAL PHOTO GOOGLE EARTH
SCALE 1:1,000 VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, Recinto 18184, certifico que soy el profesional que certificaremos, diseñ y/o preparé estos planos y las especificaciones conforme a leyes, Reglamentos, certifico que el diseño que definen que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aplicables de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier inobservancia o falsificación de la información que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Guaraño, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18 SAPE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #56

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT ENTERPRISE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.28	SHEET NO. 34 OF 88

ROUTE 5 | BUS STOP #57

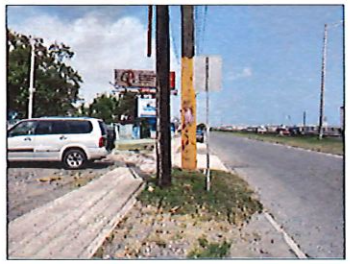
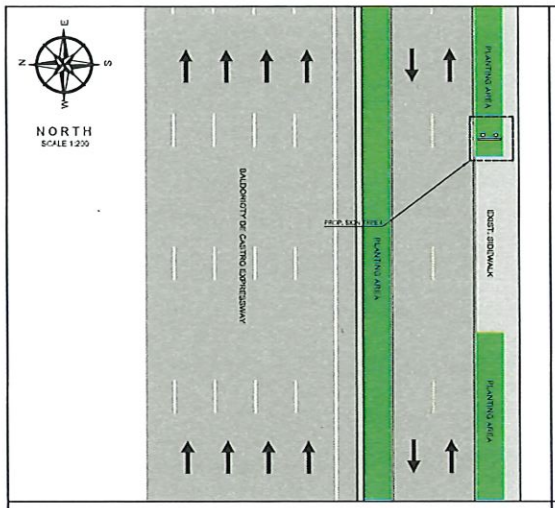


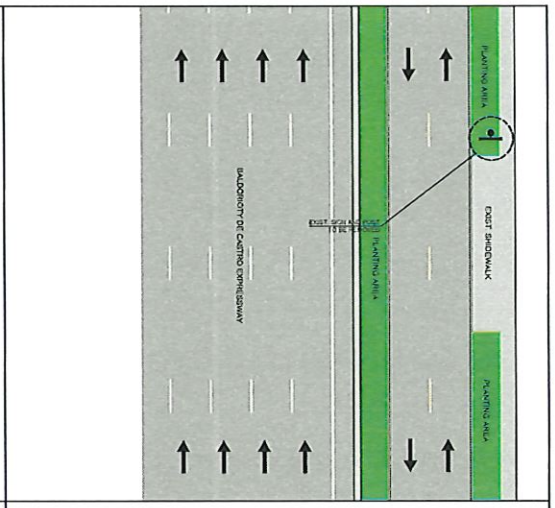
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

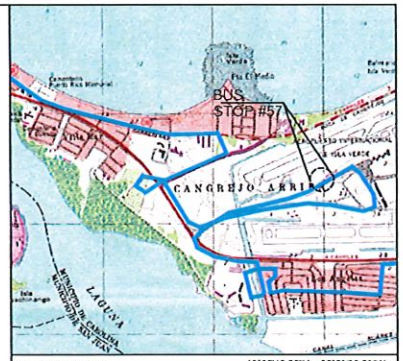


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#57



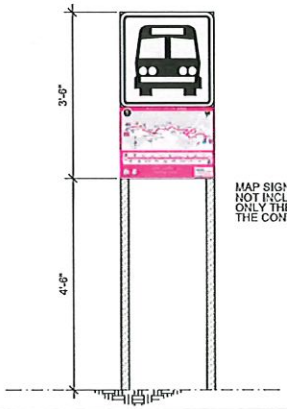
EXIST. CONDITIONS - ROUTE 5 | B.S.#57

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'48.55"N , 65°59'36.58"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que contraviene la ley y habilitación de las leyes que se hayan producido por desconocimiento, por negligencia, por mi parte o por mis agentes o empleados, o por otras personas con el conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #57

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT INTERSUITE CONDOMINIUM
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.29	SHEET NO. 35 OF 88

ROUTE 5 | BUS STOP #58

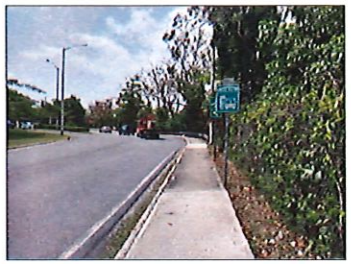
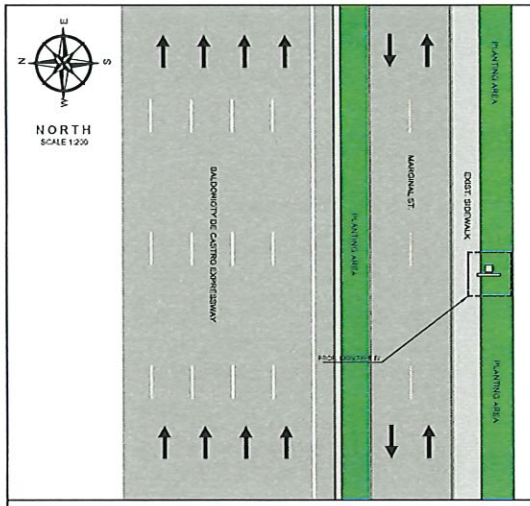


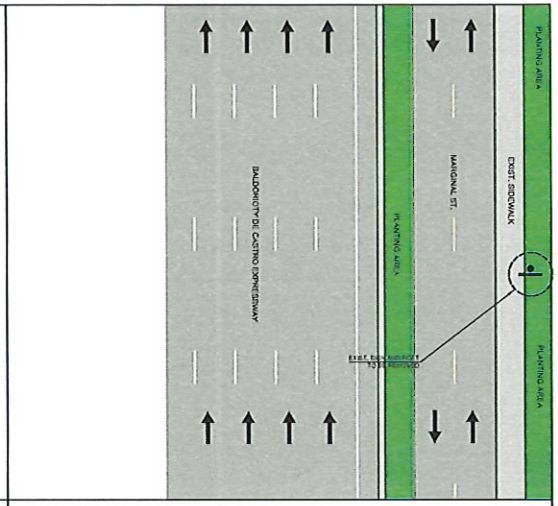
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

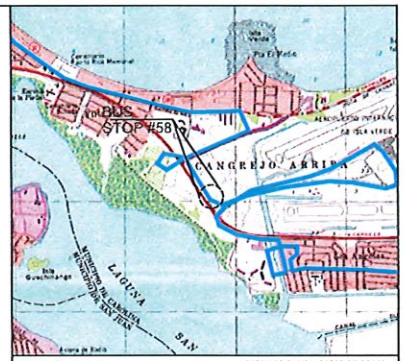


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#58

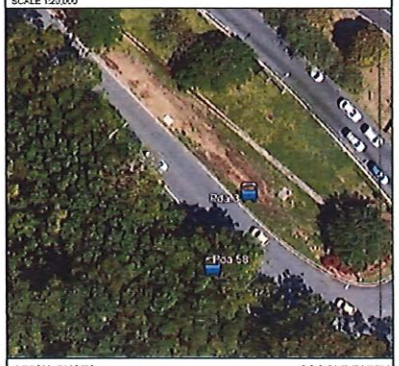


EXIST. CONDITIONS - ROUTE 5 | B.S.#58

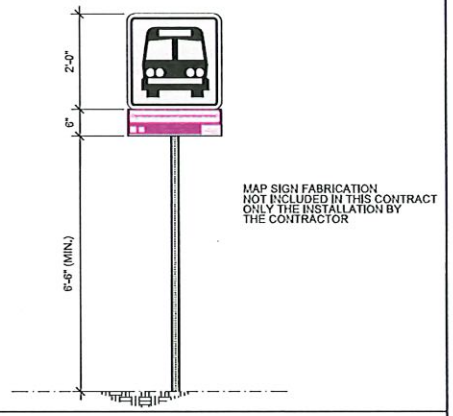
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'41.04"N , 65°59'27.06"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aplicables de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #58

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL BEFORE SANTANA AVENUE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

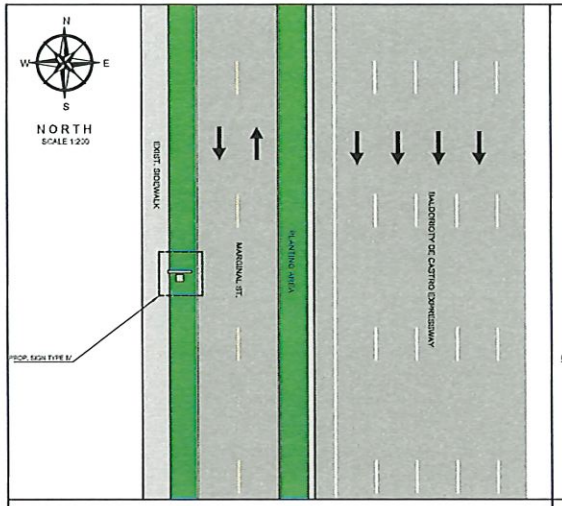
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.30	SHEET NO. 36 OF 88

ROUTE 5 | BUS STOP #59

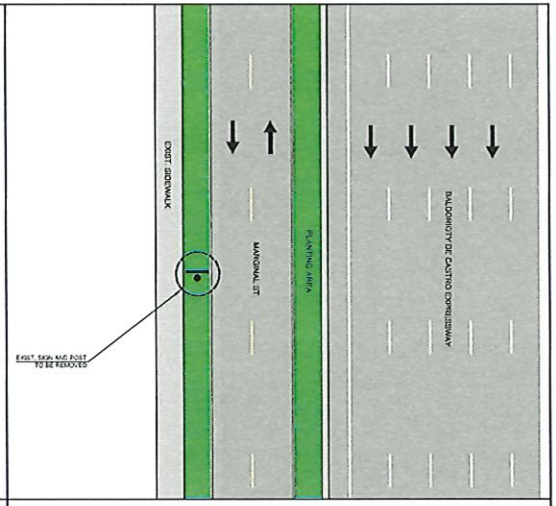
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

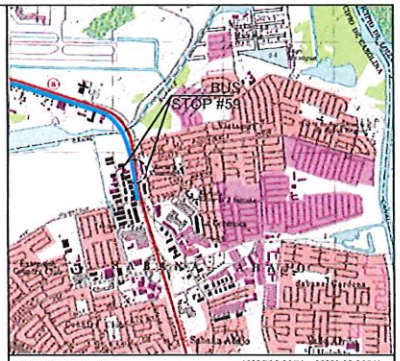


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#59



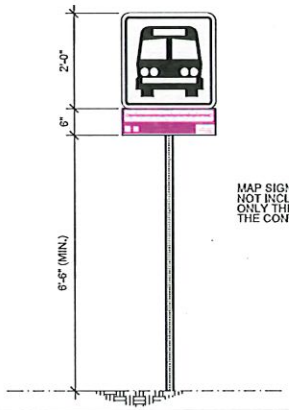
EXIST. CONDITIONS - ROUTE 5 | B.S.#59

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'32.33"N , 65°59'22.08"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.87 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #59

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT FUENTE AGUA VIVA CHURCH
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

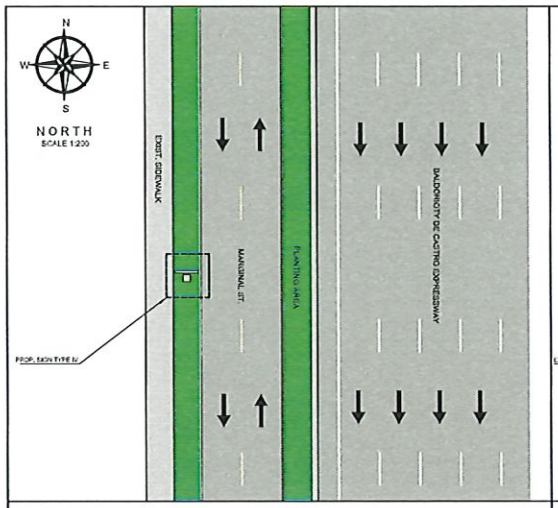
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.31	SHEET NO. 37 OF 88

ROUTE 5 | BUS STOP #60

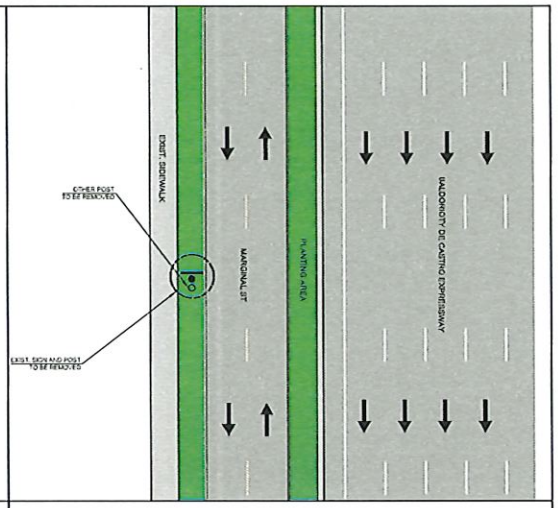
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

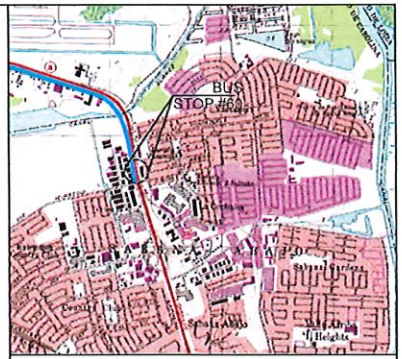


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#60



EXIST. CONDITIONS - ROUTE 5 | B.S.#60

2.5 0 5 15
SCALE 1:200

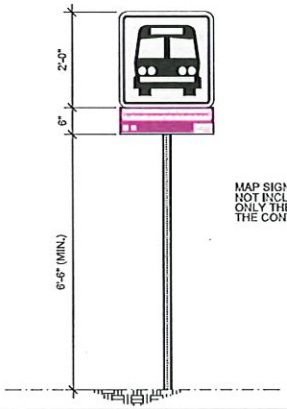


LOCATION PLAN
SCALE 1:20,000

LAT: 18°25'23.27"N , 65°59'20.40"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMIT FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE THE ANOTHER EXISTING POST WITH OUT SIGN, REFER TO PHOTO #2.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.00 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo Hernan E. Lopez Baez Ingeniero Licencia No 24 certifico que soy el profesional que corresponde, diseño y/o preparó estos planos y las especificaciones complementarias. Por tanto certifico que el diseño que aquí se refiere cumple con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que particular énfasis sobre la información de la hecha que se haya preparado por desconocimiento, por negligencia, por error del mío agentes o empleados o por otra persona con mi conocimiento, no tener responsable de cualquier acción, falta y daño causado por la OGPe.

ENZO Engineering, psc.
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 24PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #60

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL BEFORE ITURREGUI AVENUE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.32	SHEET NO. 38 OF 88

ROUTE 5 | BUS STOP #1

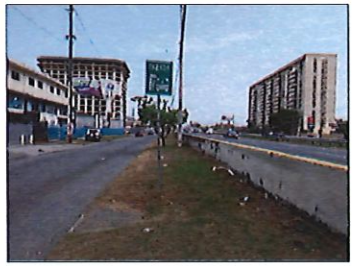


PHOTO - 1

PHOTO - 2

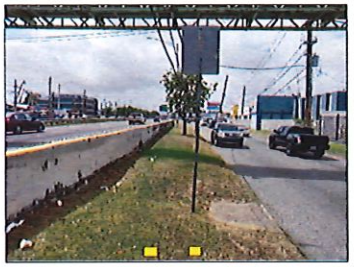
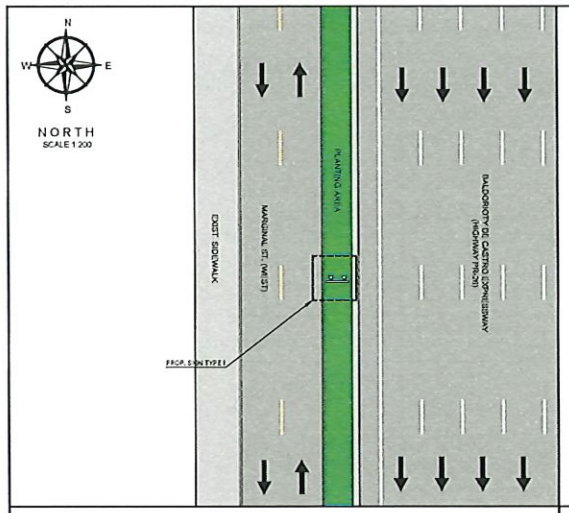
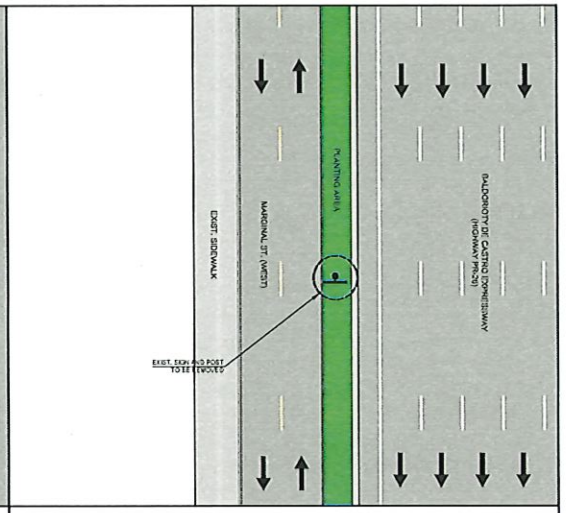


PHOTO - 3: PROPOSED SIGN LOCATION

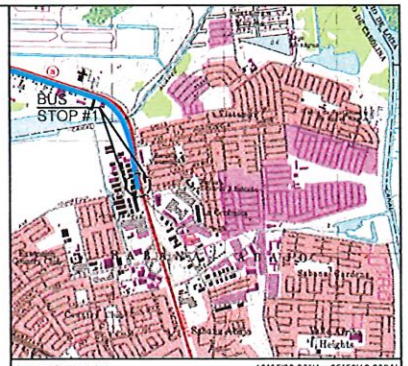


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#1



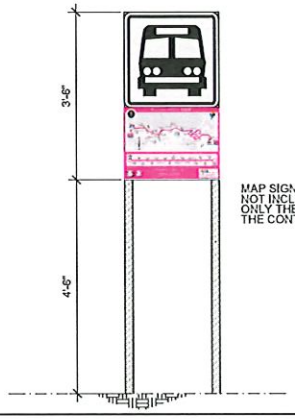
EXIST. CONDITIONS - ROUTE 5 | B.S.#1

2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°25'22.08"N , 65°59'19.82"W
SCALE 1:20,000

AERIAL PHOTO GOOGLE EARTH
SCALE 1:1,000 VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES.

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que el diseño planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas por mí consentidas, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #1

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO AVE. (HIGHWAY PR-26) - MARGINAL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY. BEV	DRAW BY. ABZ
DWG. TYPE TS-2.01	SHEET NO. 39 OF 88

ROUTE 5 | BUS STOP #2

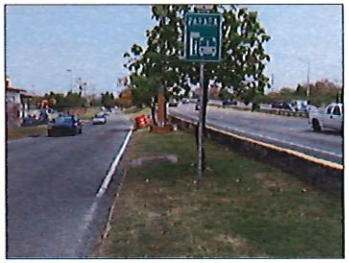
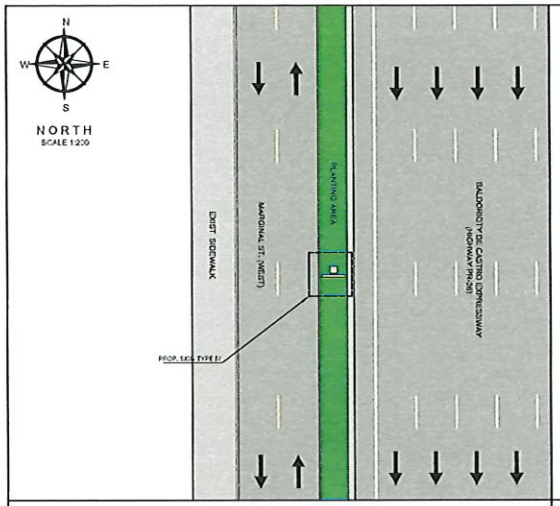


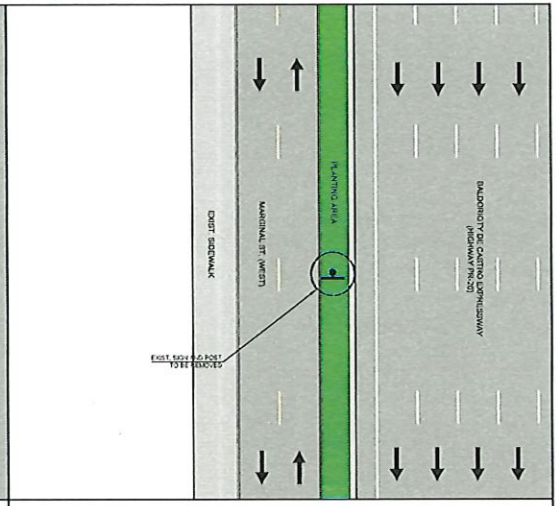
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#2



EXIST. CONDITIONS - ROUTE 5 | B.S.#2

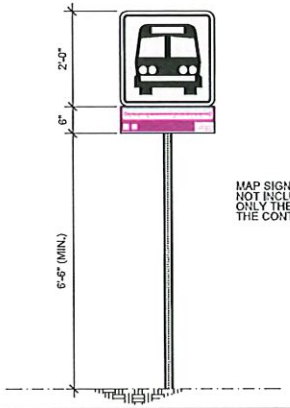
2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000

18°25'29.82"N , 65°59'21.16"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. López Báez, Ingeniero, licencia 19151, certifico que soy el profesional que certificaremos diseño y/o proyectos planos y las especificaciones conforme certifico, formales, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias Juntas Reglamentadoras a Corporaciones Públicas con jurisdicción. Reconozco que cualquier incumplimiento falso o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, propia por mí, mis agentes o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción Judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaraño, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 19 SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #2

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF
FUENTE AGUA VIVA CHURCH MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

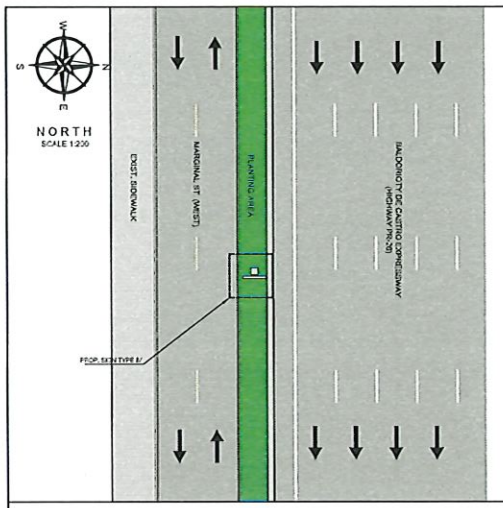
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.02	SHEET NO. 40 OF 88

ROUTE 5 | BUS STOP #3

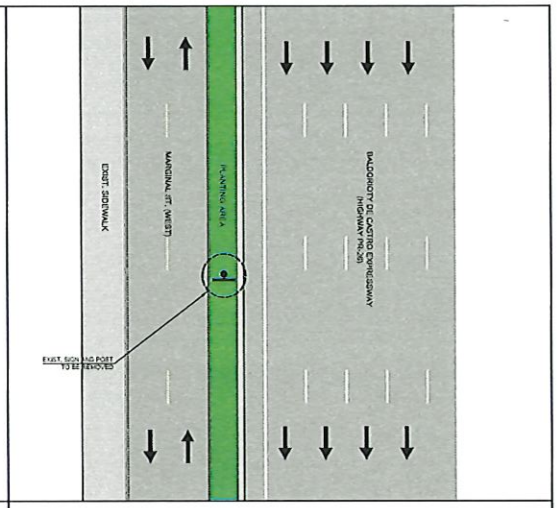
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

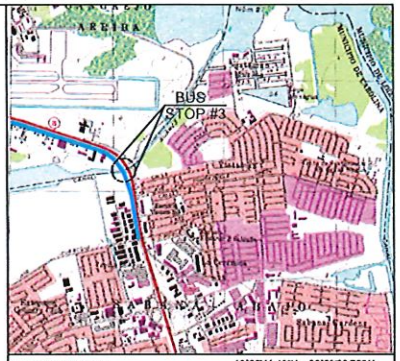


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#3

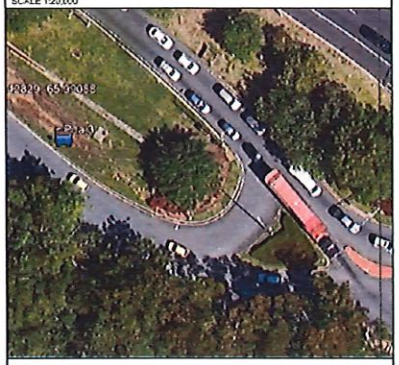


EXIST. CONDITIONS - ROUTE 5 | B.S.#3

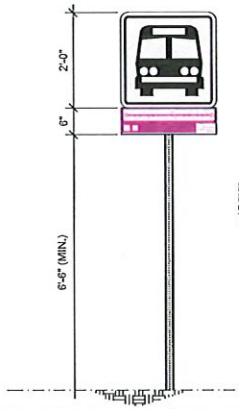
2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°25'41.48"N , 65°59'26.75"W
SCALE 1:20,000



AERIAL PHOTO GOOGLE EARTH
SCALE 1:1,000 VERSION: 7.3.4.8542 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FREE PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
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4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING GROUND IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que certificaron, diseño y/o preparó estos planos y las especificaciones complementarias. Certifico, verifico y/o entiendo que estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que la(s)(el) aceptación total o bloqueo de los hechos que se vierten y/o plasman por desconocimiento y por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #3

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL AFTER SANTANA AVENUE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.03	SHEET NO. 41 OF 88

ROUTE 5 | BUS STOP #4

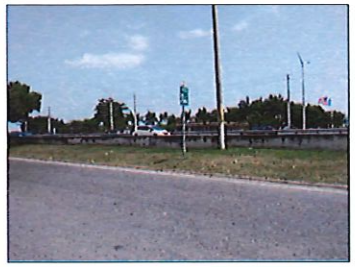


PHOTO - 1

PHOTO - 2

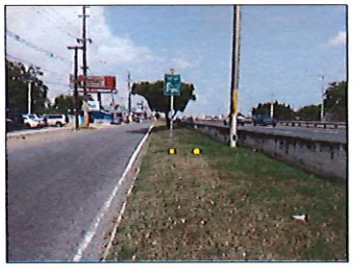
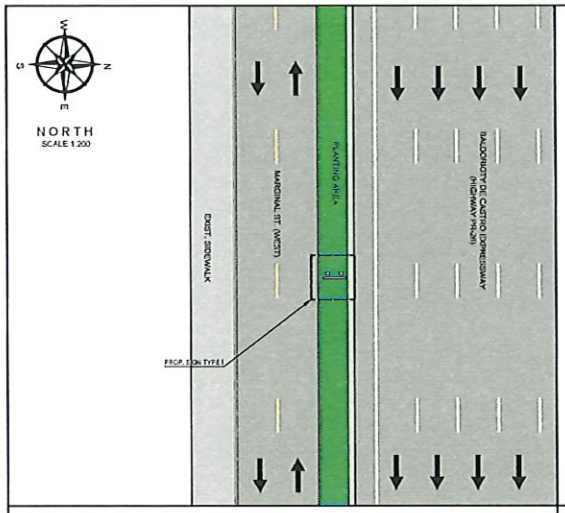
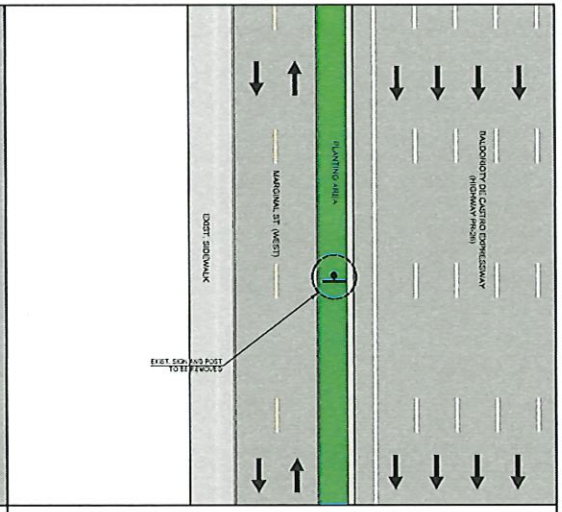


PHOTO - 3: PROPOSED SIGN LOCATION

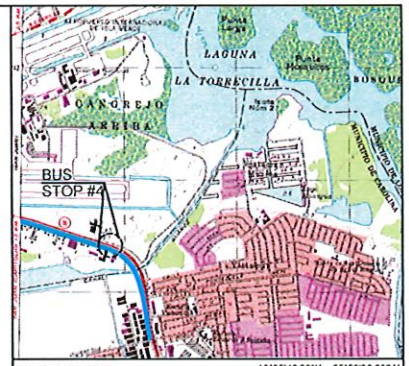


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#4



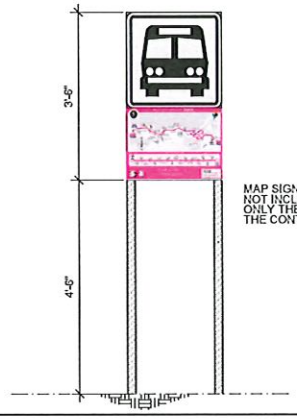
EXIST. CONDITIONS - ROUTE 5 | B.S.#4

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'46.80"N , 65°59'36.08"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
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4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE GROUND IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD DURE SHALL BE 0.50 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseño y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la SOPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #4

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF
INTERSUITE CONDOMINIUM MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

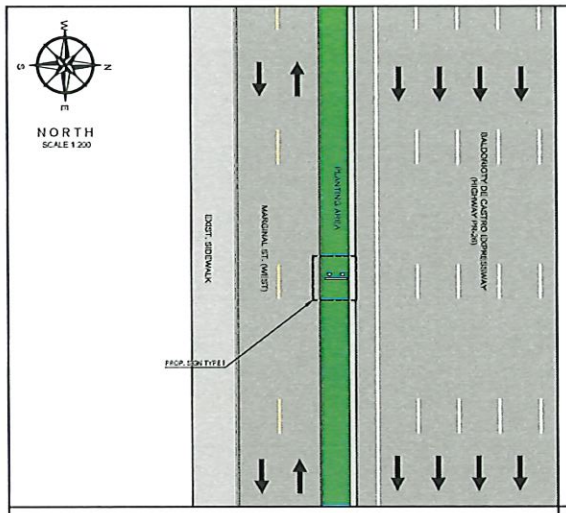
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.04	SHEET NO. 42 OF 88

ROUTE 5 | BUS STOP #5

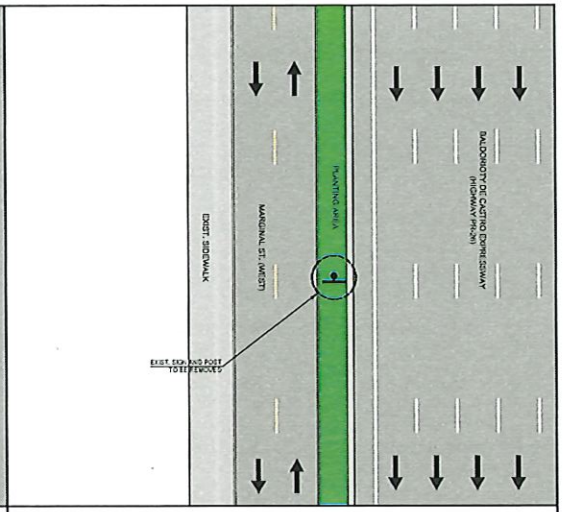
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

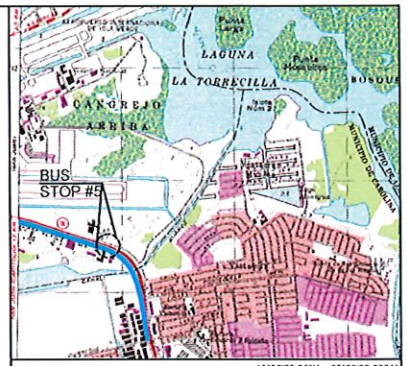


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#5

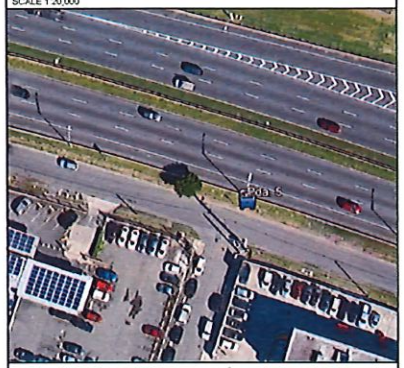


EXIST. CONDITIONS - ROUTE 5 | B.S.#5

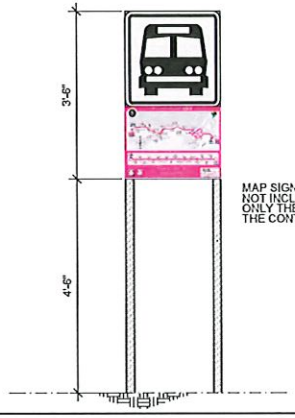
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'52.00"N , 65°59'53.63"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

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5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING GROUND IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
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ENZO Engineering, psc.
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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #5

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF JOAQUINA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

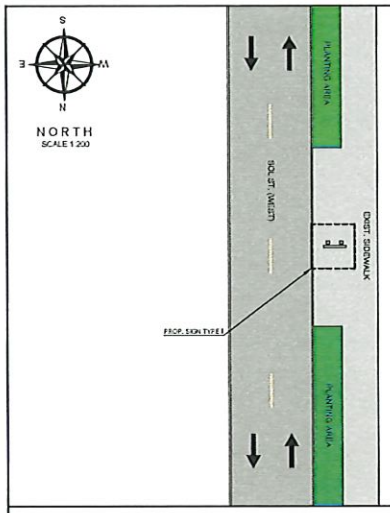
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.05	SHEET NO. 43 OF 88

ROUTE 5 | BUS STOP #6

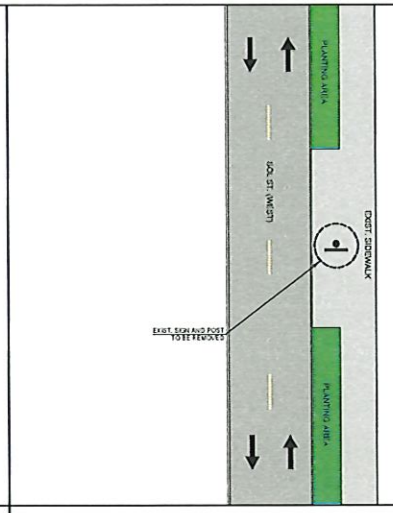
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

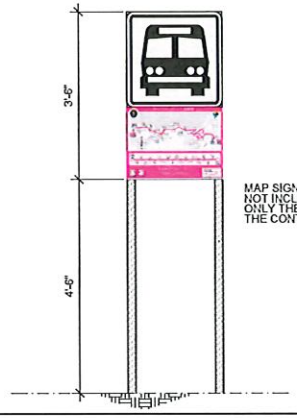


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#6



EXIST. CONDITIONS - ROUTE 5 | B.S.#6

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FIRMBA (EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
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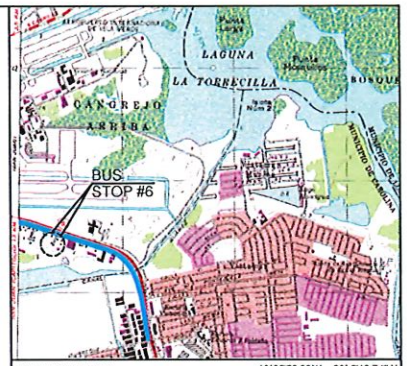
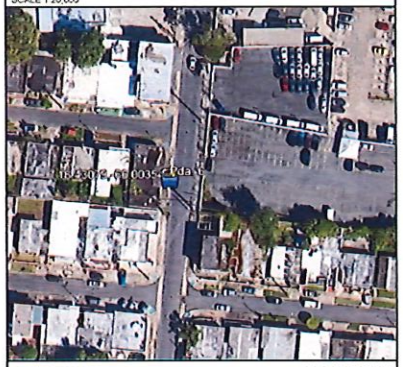
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVELS OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°25'50.83"N , 66° 0'12.74"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigente de los Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Guraboo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #6

FROM ITURREGUI AVENUE TO SAN JUAN
SOL ST. BEFORE PISCIS ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

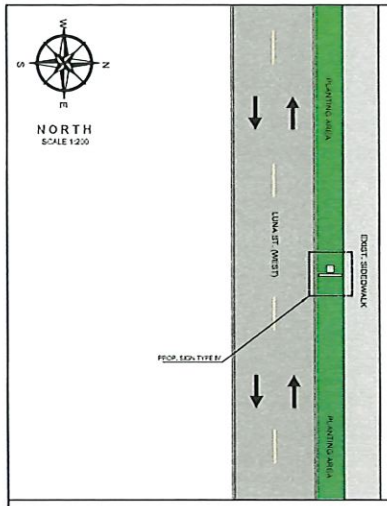
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE TS-2.06	SHEET NO. 44 OF 88

ROUTE 5 | BUS STOP #7

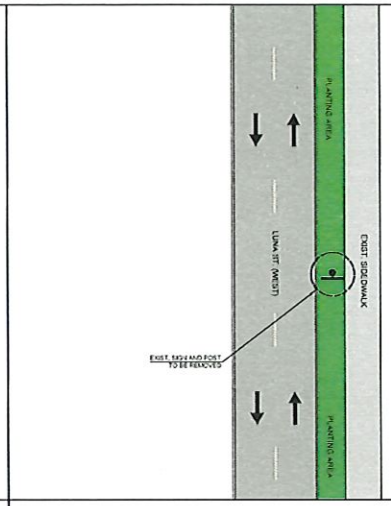
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

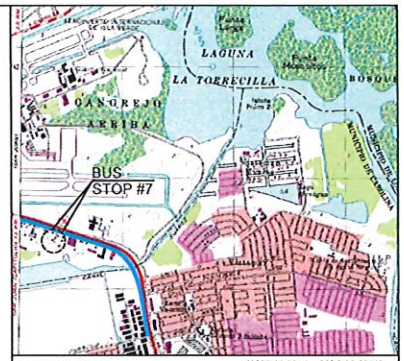


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#7

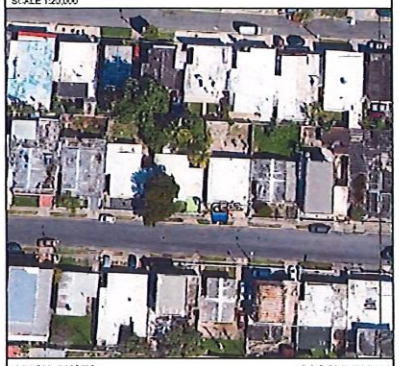


EXIST. CONDITIONS - ROUTE 5 | B.S.#7

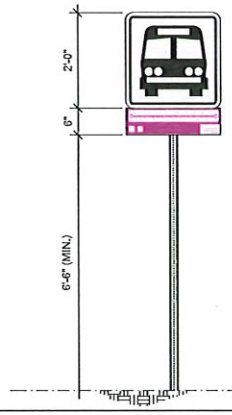
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'44.52"N , 66° 0'15.15"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia Nº 54, certifico que soy el profesional que confeccionó, diseño y/o proyectó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Algunos de los Agencias. Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier inclusión falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guraso, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #7

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. AFTER SOL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

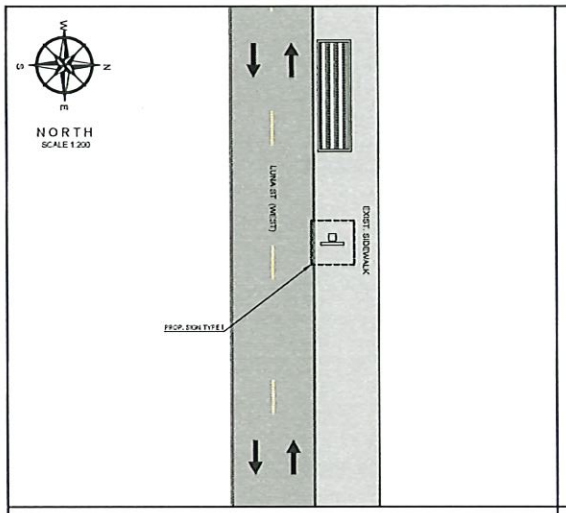
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.07	SHEET NO. 45 OF 88

ROUTE 5 | BUS STOP #8

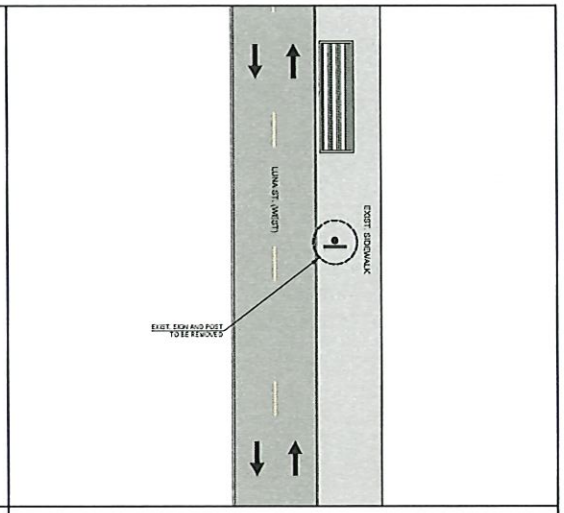
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

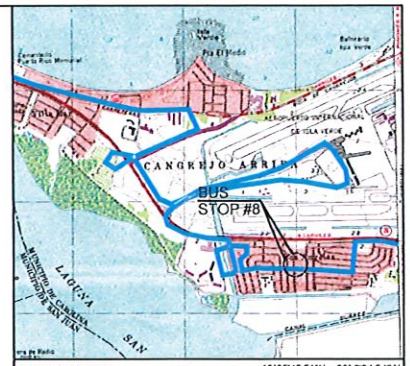


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#8



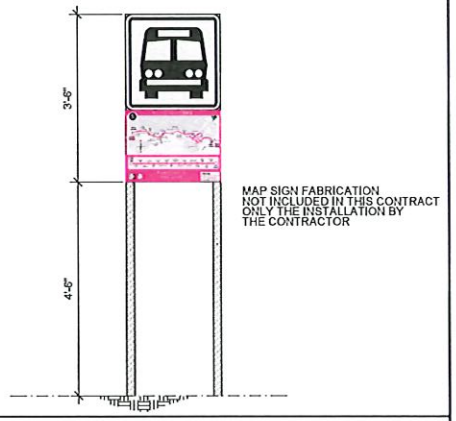
EXIST. CONDITIONS - ROUTE 5 | B.S.#8

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'45.51"N , 66° 0'24.54"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE FRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia por mi o por mis empleados o por otras personas con mi conocimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #8

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. INT. PEGASO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

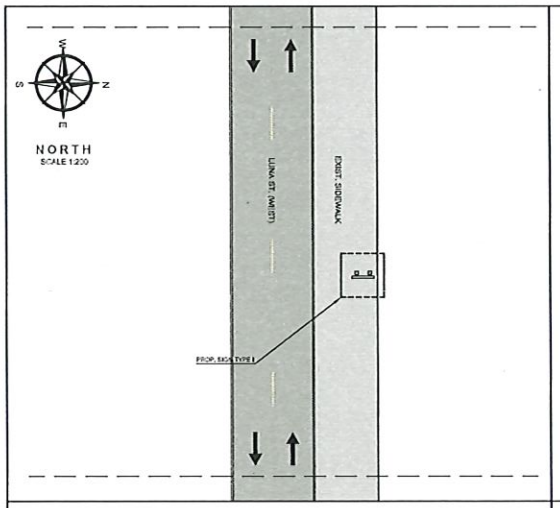
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-2.08	SHEET NO. 46 OF 88

ROUTE 5 | BUS STOP #9

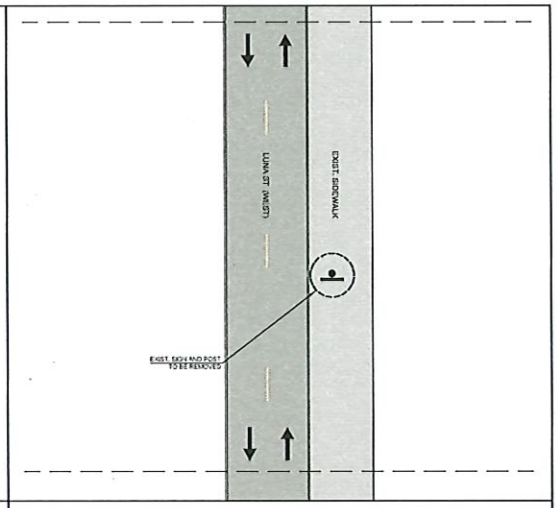
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

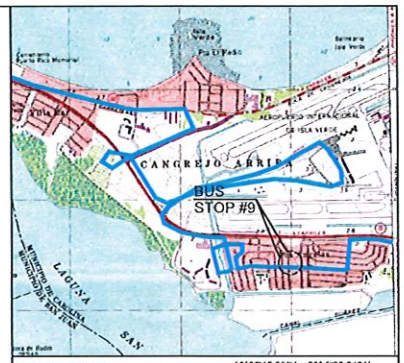


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#9



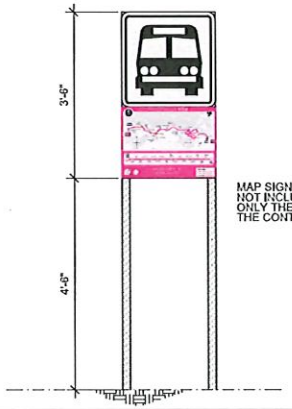
EXIST. CONDITIONS - ROUTE 5 | B.S.#9

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'45.83"N , 65° 0'28.84"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FIRES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK, NEXT TO THE WALL BRIDGE.

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseño y/o preparó estos planos y las especificaciones completas. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #9

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. BEFORE ARIES ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.09	SHEET NO. 47 OF 88

ROUTE 5 | BUS STOP #10

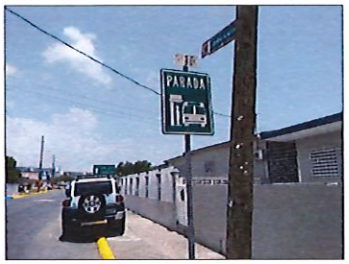
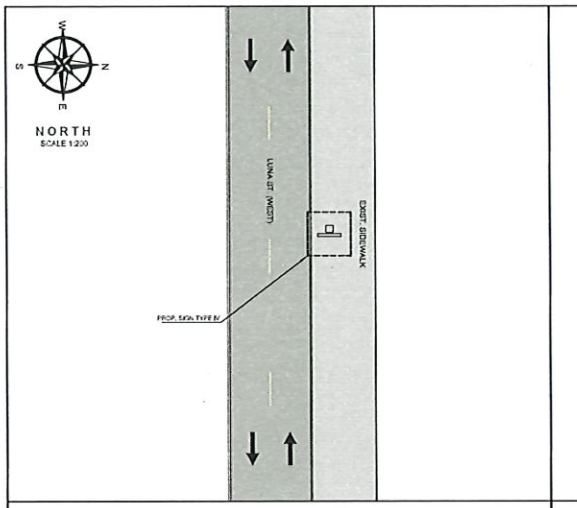


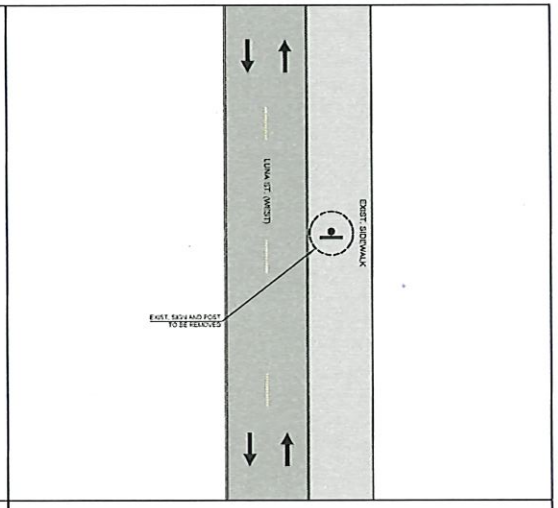
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#10



EXIST. CONDITIONS - ROUTE 5 | B.S.#10

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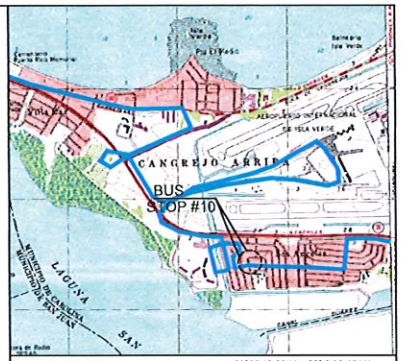
SCALE 1:200

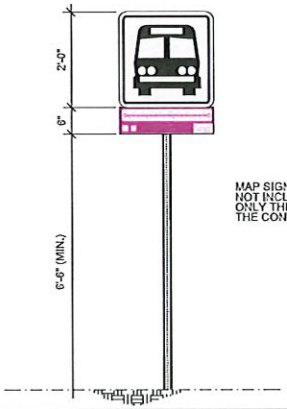


LOCATION PLAN
SCALE 1:20,000

18°25'45.26"N , 65° 0'36.15"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMIT BID FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia N° 54, certifico que soy el profesional que conceptualiza, diseña y/o prepara estos planos y las especificaciones complementarias. También certifico que el diseño que aparece en estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aplicables de la Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación total o bifurcación de la misma que se haga posteriormente por desconocimiento, por negligencia o por error del mismo, agentes o empleados, o por otra persona con el consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, PR 00778
TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ
INGENIERO MECANICO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #10

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. INT. ASTRAL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.10	SHEET NO. 48 OF 88

ROUTE 5 | BUS STOP #11

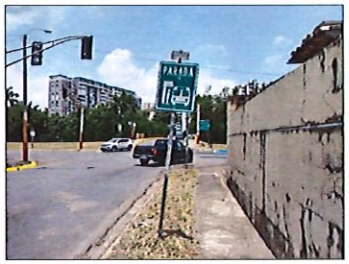
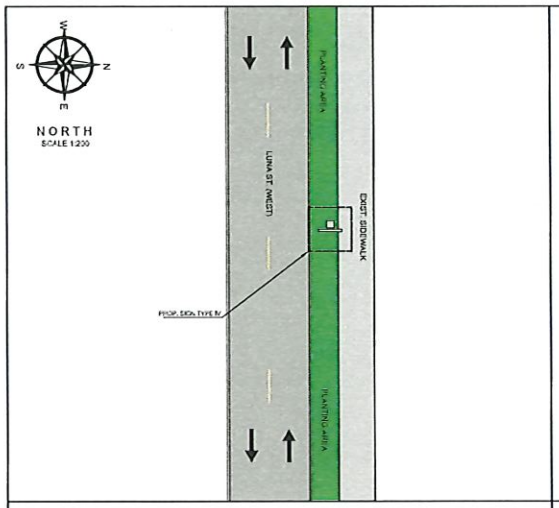


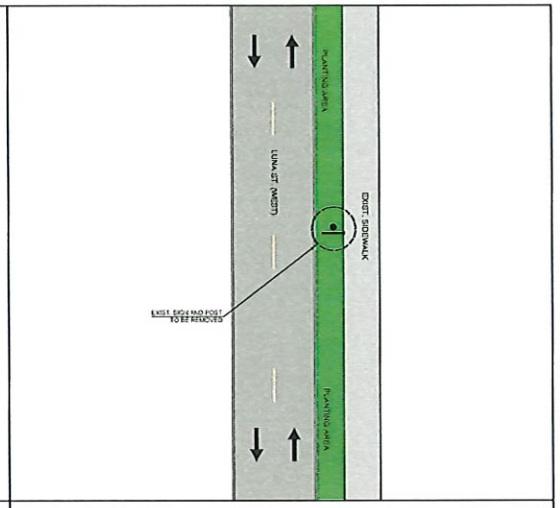
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

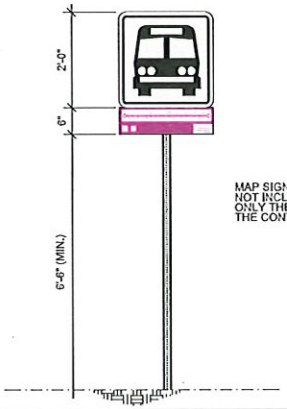


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#11



EXIST. CONDITIONS - ROUTE 5 | B.S.#11

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

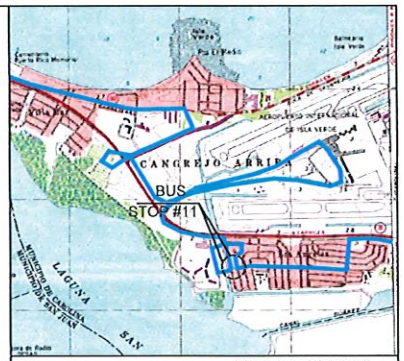
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

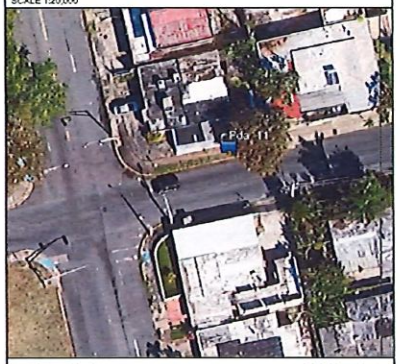
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERTS PERMIT FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'45.48"N , 65° 0'48.12"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, Bando 18 St. certifico que soy el profesional que certificaré, diseño y/o preparé esos planos y las especificaciones completas bajo Terminos, certifico que he tomado por Ley las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Codigos de Construcción vigentes de la Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdicción. Reconozco que cualquier incumplimiento o falsificación de los hechos que se haya producido por desconocimiento, por negligencia, por mi parte o por el de agentes o empleados a por otras personas con mi consentimiento, me hacer responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Guaynabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENSADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18 SAPE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #11

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. INT. COSMOS ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

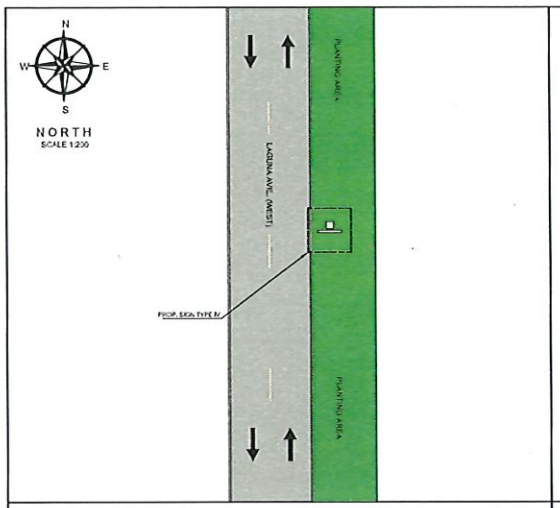
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.11	SHEET NO. 49 OF 88

ROUTE 5 | BUS STOP #12

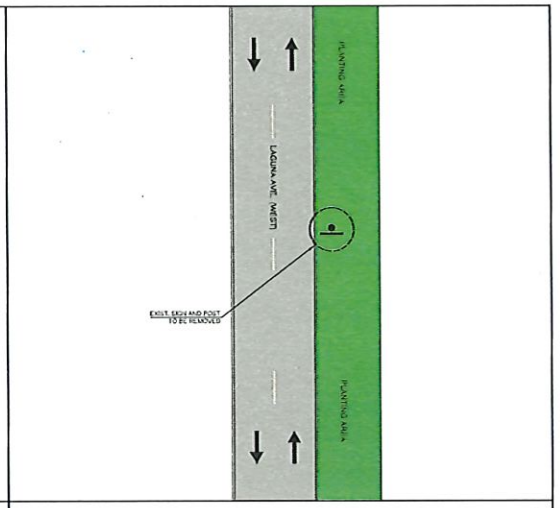
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

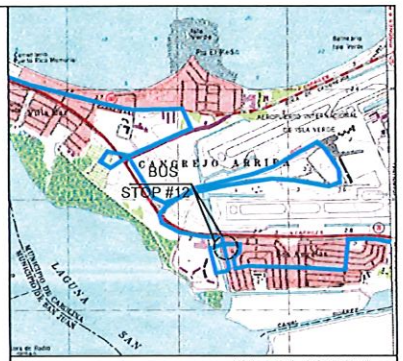


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#12



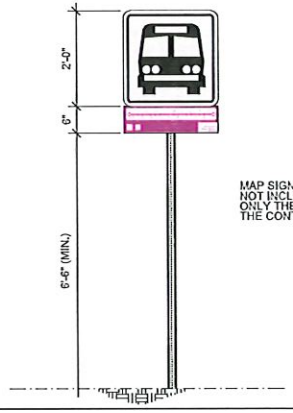
EXIST. CONDITIONS - ROUTE 5 | B.S.#12

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'48.76"N , 65° 0'53.67"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL CUT THE BRANCHES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 3.07 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero Licencia 18184, certifico que soy el profesional que certificaría, diseñó y preparó estos planos y las especificaciones complementarias. Certifico, además, que el diseño que ahora aparece y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación hecha a satisfacción de la ley o que se haya producido por desconocimiento, por negligencia, por mal uso o por el uso agresivo o imprudente, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y deslindo de por lo cual.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, PR 00778
TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #12

FROM ITURREGUI AVENUE TO SAN JUAN
LAGUNA AVENUE BEFORE ACUARIO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

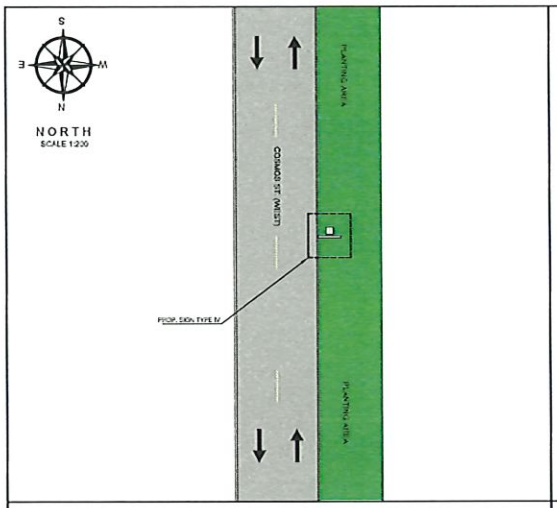
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.12	SHEET NO. 50 OF 88

ROUTE 5 | BUS STOP #13

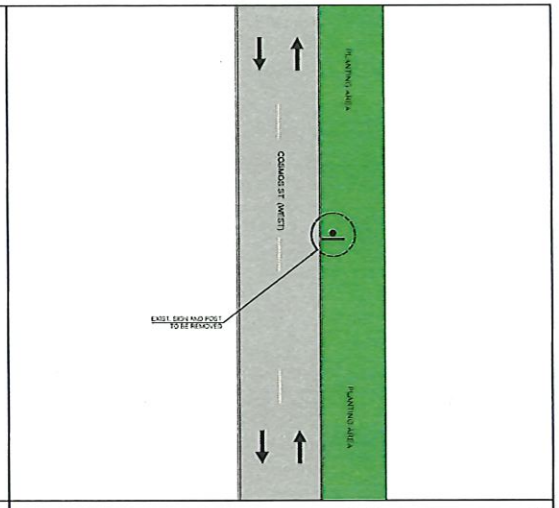
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

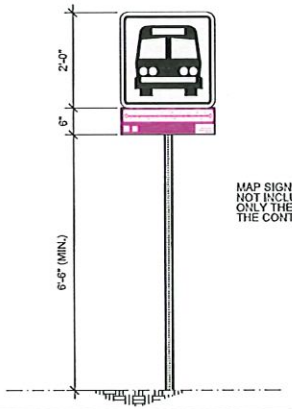


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#13



EXIST. CONDITIONS - ROUTE 5 | B.S.#13

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

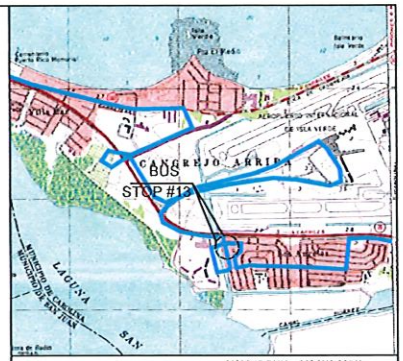
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°25'47.71"N , 66° 0'49.92"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que sus planos, diseño y proyecto, estas planos y las especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Cuerpos Normativos Pertinentes con Jurisdicción. Reconozco que cualquier omisión total o falsificación de los hechos que se haya producido por desconocimiento, por negligencia o no por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18-34

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #13

FROM ITURREGUI AVENUE TO SAN JUAN
COSMOS ST. BEFORE LUNA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

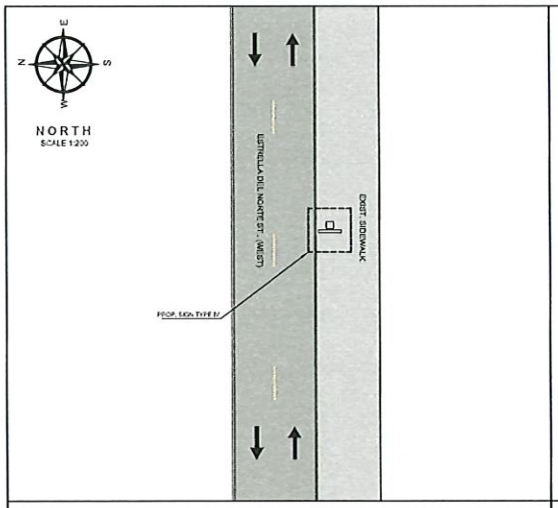
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.13	SHEET NO. 51 OF 88

ROUTE 5 | BUS STOP #14

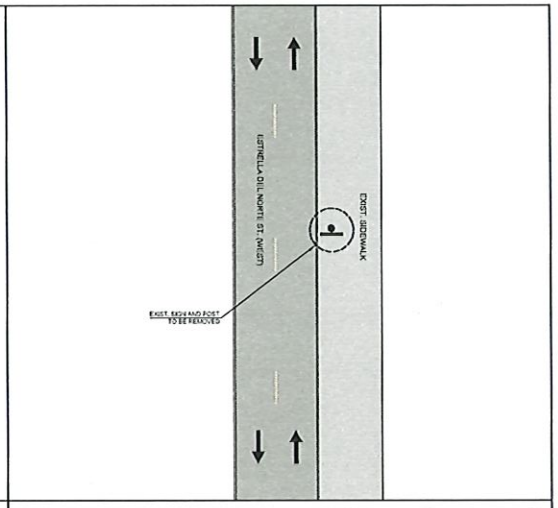
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

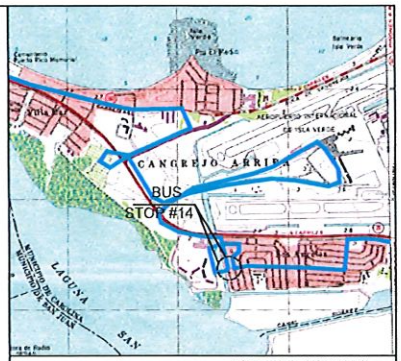


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#14



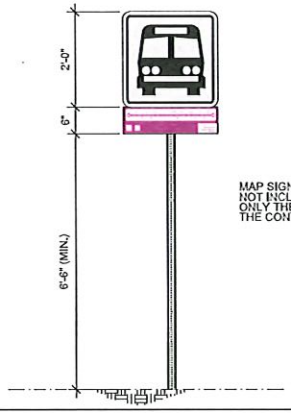
EXIST. CONDITIONS - ROUTE 5 | B.S.#14

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'38.29"N , 66° 0'45.95"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseño y/o presentó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #14

FROM ITURREGUI AVENUE TO SAN JUAN
ESTRELLA DEL NORTE ST. INT. ANDRÓMEDA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

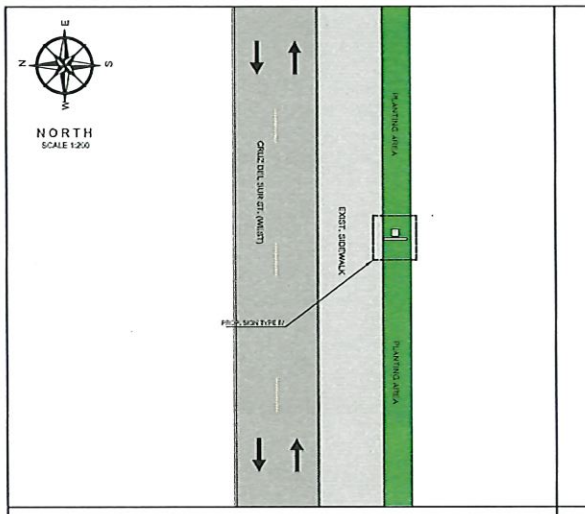
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.14	SHEET NO. 52 OF 88

ROUTE 5 | BUS STOP #15

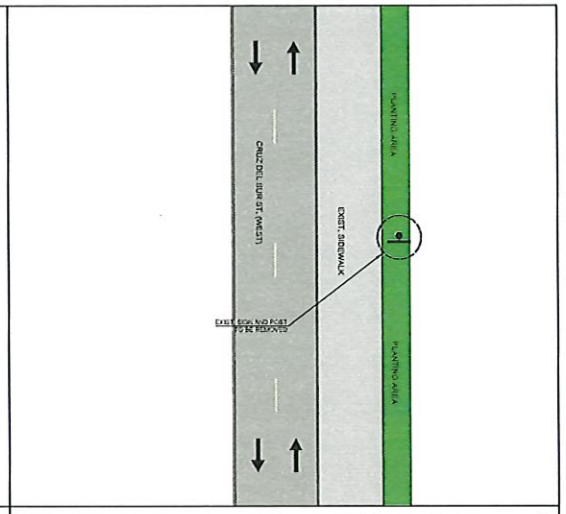
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

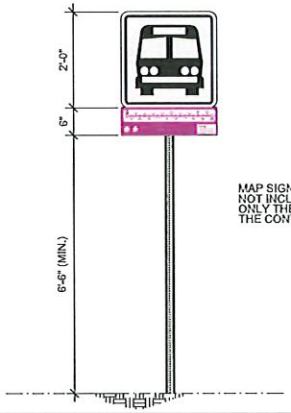


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#15



EXIST. CONDITIONS - ROUTE 5 | B.S.#15

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

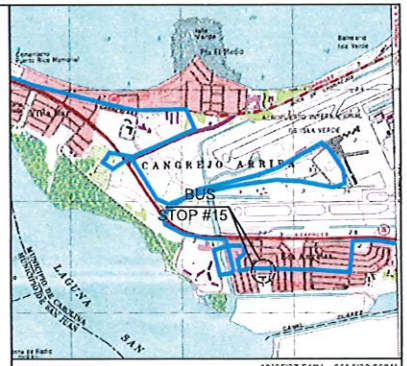
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL COORDINATE THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000

18°25'37.51"N , 66° 0'39.29"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18134, certifico que soy el profesional que certificará, diseña y/o preparó estos planos y las especificaciones completas aquí. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación, falta o modificación de los mismos, así como por omisión o por otra persona carente de capacidad, me hacen responsable de cualquier acción jurídica, civil o penal por parte del Gobierno.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, PR 00778
TEL. (787) 649-5200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18134PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #15

FROM ITURREGUI AVENUE TO SAN JUAN
CRUZ DEL SUR ST. BEFORE ASTRAL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.15	SHEET NO. 53 OF 88

ROUTE 5 | BUS STOP #16

PHOTO - 1

PHOTO - 2

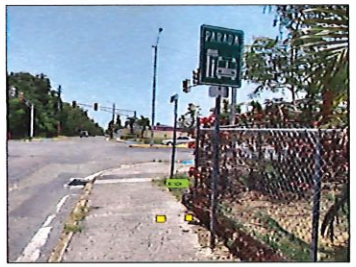
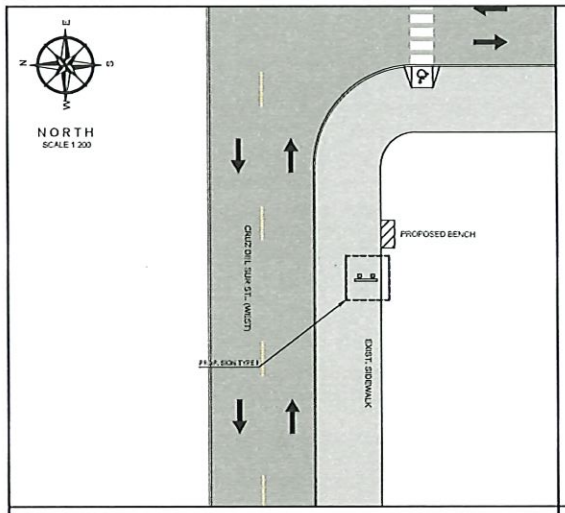
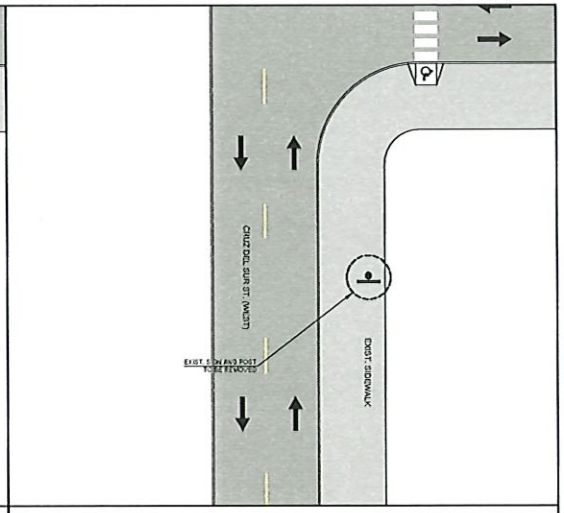


PHOTO - 3: PROPOSED SIGN LOCATION

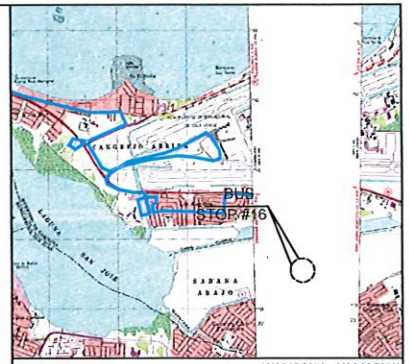


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#16



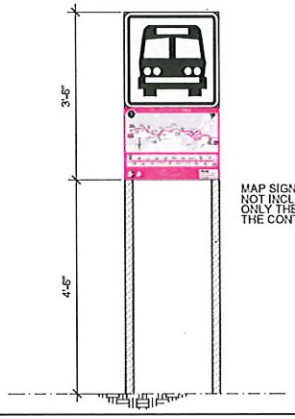
EXIST. CONDITIONS - ROUTE 5 | B.S.#16

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'37.53"N , 66° 0'29.76"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION
- PROPOSED BENCH

NOTES.

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED BENCH IN THE PLANTING AREA.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

INGENIERO LICENCIADO HERNAN E. LOPEZ BAEZ PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #16

FROM ITURREGUI AVENUE TO SAN JUAN
CRUZ DEL SUR ST. INT. LOS ÁNGELES ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.16	SHEET NO. 54 OF 88

ROUTE 5 | BUS STOP #33

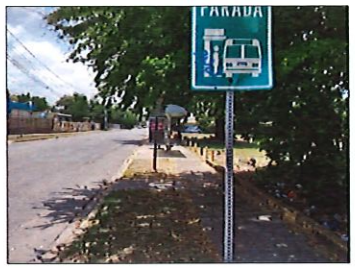
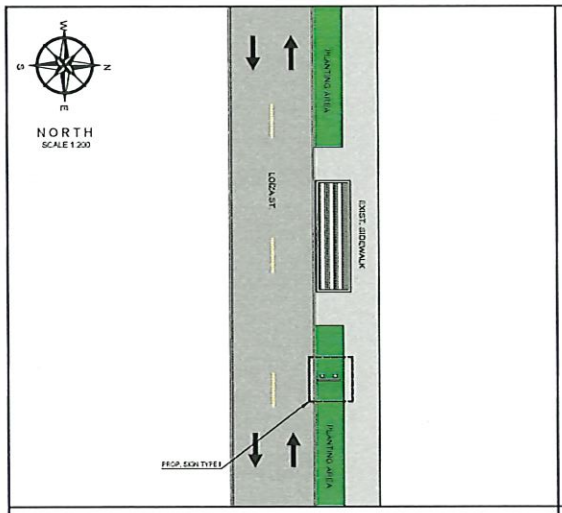


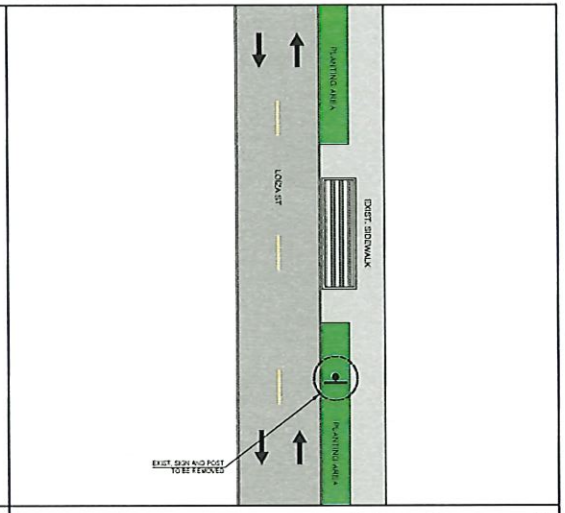
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

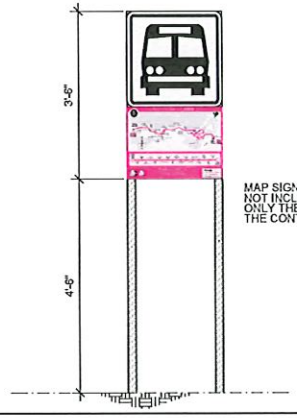


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#33



EXIST. CONDITIONS - ROUTE 5 | B.S.#33

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE I

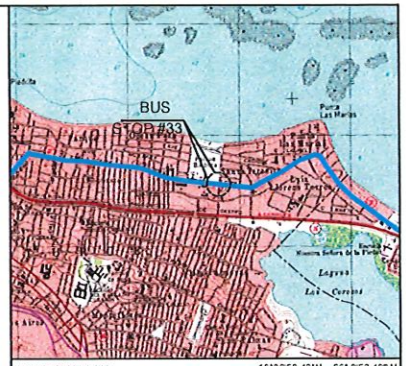
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.80 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°26'58.43"N , 66° 2'53.40"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DCPa.

ENZO Engineering, psc.
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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #33

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. AFTER LAS AMÉRICAS AVENUE
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

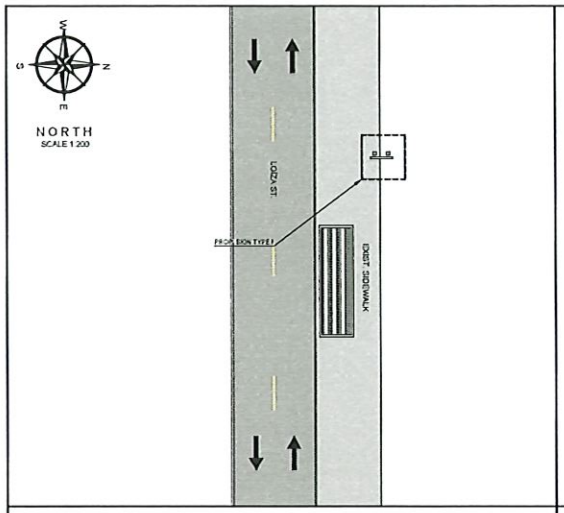
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.17	SHEET NO. 55 OF 88

ROUTE 5 | BUS STOP #34

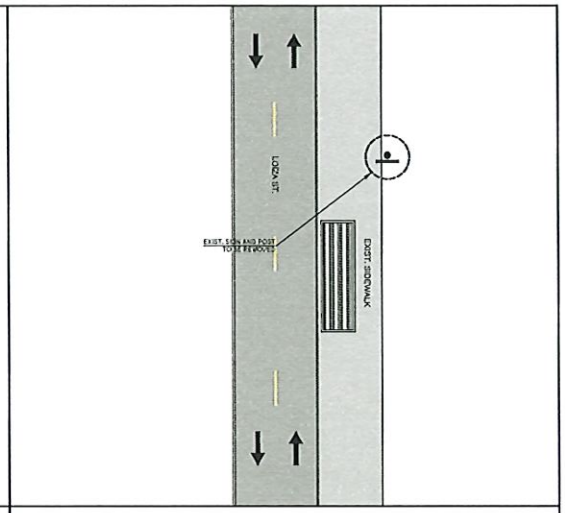
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

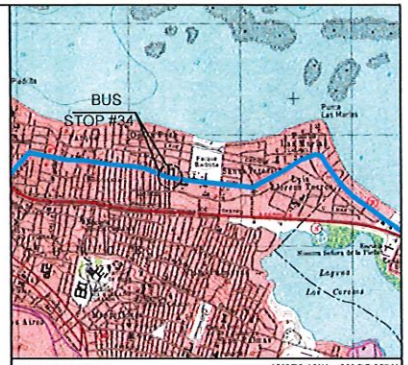


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#34



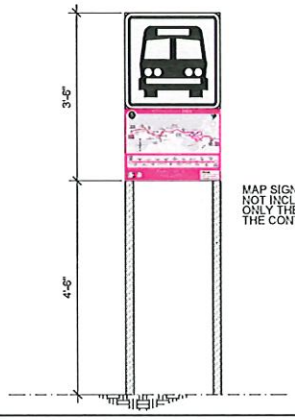
EXIST. CONDITIONS - ROUTE 5 | B.S.#34

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'0.10"N , 65° 35'.65"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRIMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.50 ft.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN BETWEEN THE SIDEWALK AND PLANTING AREA, REFER TO PHOTO #3.

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completas. También certifico que entiendo que estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #34

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. AFTER RAMPA DEL ALMIRANTE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

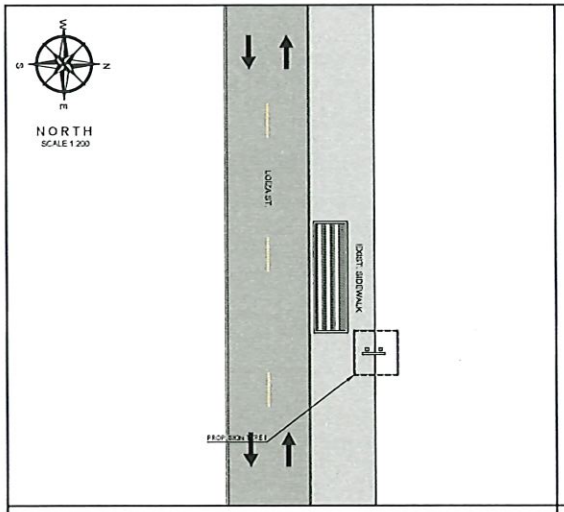
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.18	SHEET NO. 56 OF 88

ROUTE 5 | BUS STOP #35

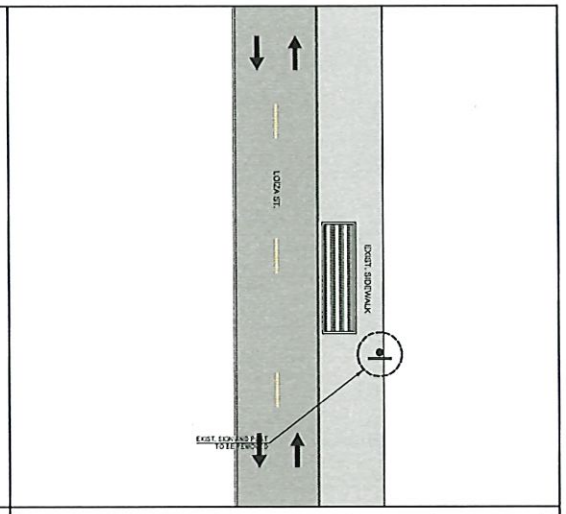
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

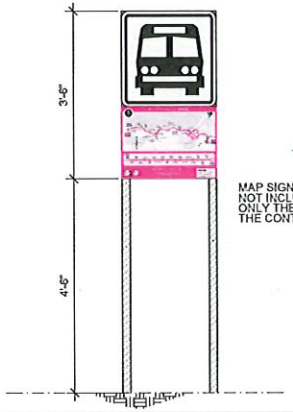


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#35



EXIST. CONDITIONS - ROUTE 5 | B.S.#35

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

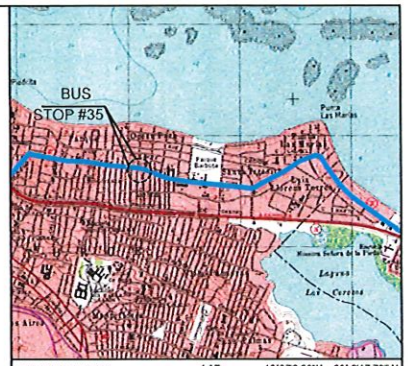
NOT TO SCALE

LEGEND:

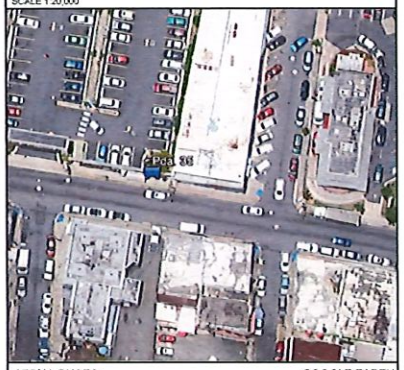
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN BETWEEN PLANTING & SIDEWALK. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROADWAYS SHALL BE 0.60 M.



LOCATION PLAN LAT: 18°27'3.66"N , 66° 3'17.70"W
SCALE 1:20,000



AERIAL PHOTO GOOGLE EARTH
SCALE 1:1,000 VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Renuncio que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas por mí consultadas, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #35

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. BEFORE OPPOSITE SIDE OF MANUEL CORCHADO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.19	SHEET NO. 57 OF 88

ROUTE 5 | BUS STOP #36

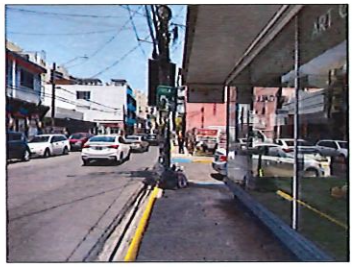
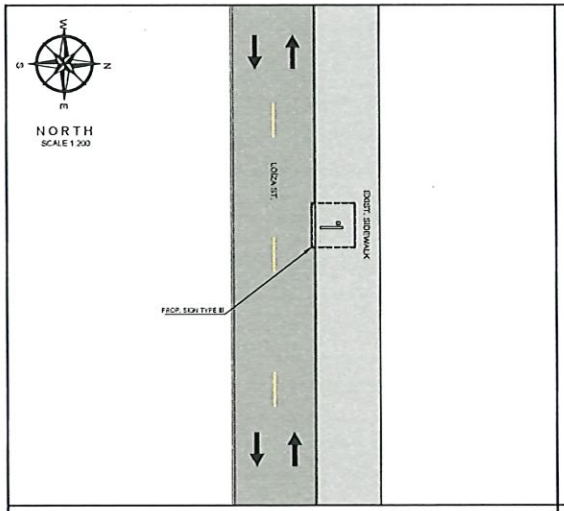


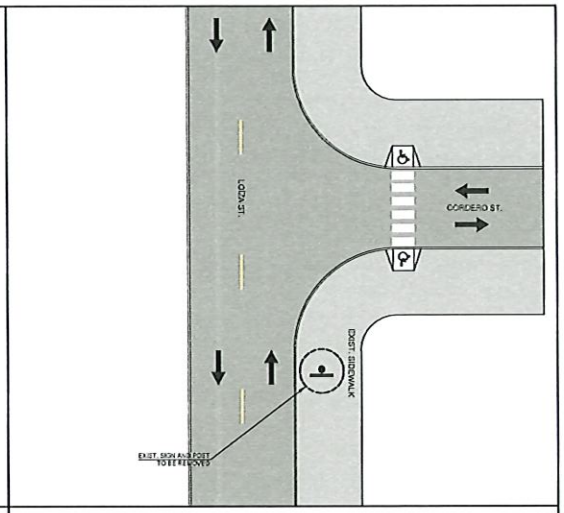
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

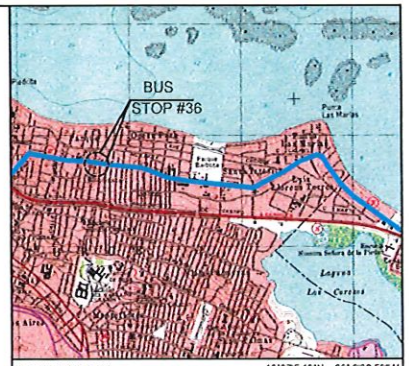


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#36

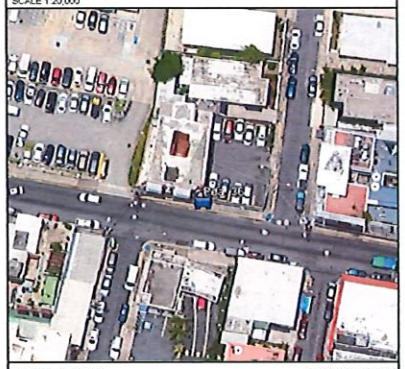


EXIST. CONDITIONS - ROUTE 5 | B.S.#36

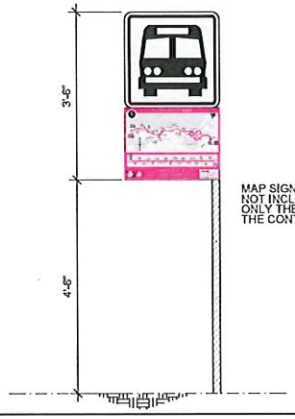
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'5.12"N , 66° 3'30.59"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD OUTER SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN IN THE SIDEWALK. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y y preparó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que incurriré en delito de Falsedad de los hechos que en tal sentido por desconocimiento o por negligencia que sea por mí, me ocasione a emplear otra, o por otras personas con mi consentimiento, me hacer responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE VIEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #36

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. AFTER CORDERO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.20	SHEET NO. 58 OF 88

ROUTE 5 | BUS STOP #37

PHOTO - 1

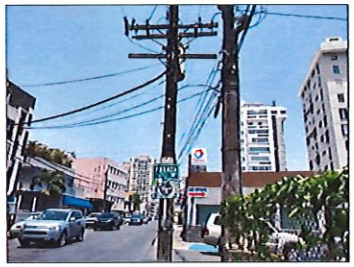
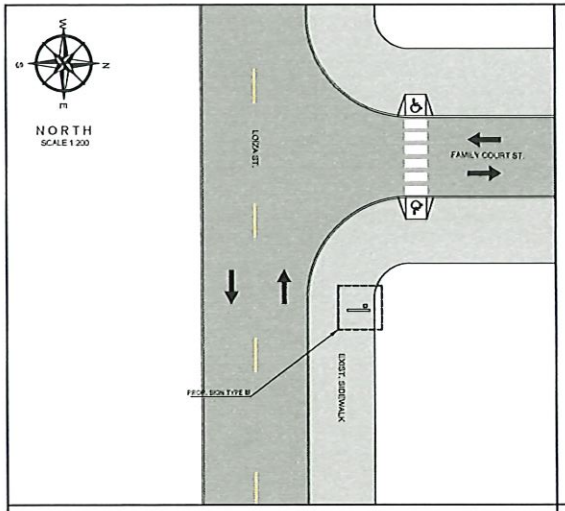
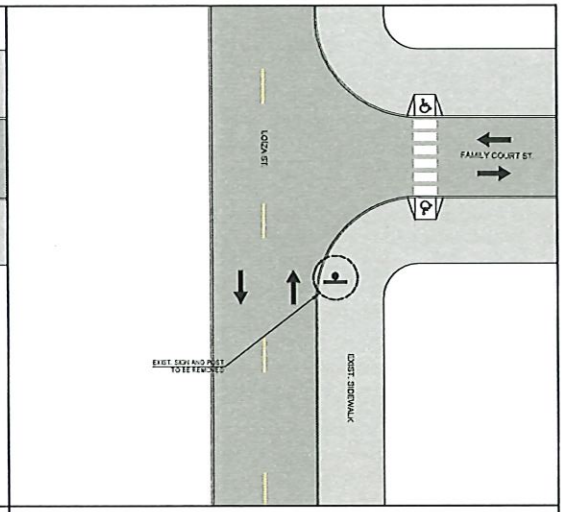


PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#37

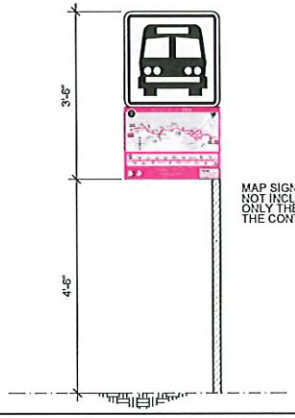


EXIST. CONDITIONS - ROUTE 5 | B.S.#37

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°27'6.00"N , 66° 3'35.77"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FIRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES

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3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE FIRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN, 2-0" AWAY THE WOODEN POLE & NEXT TO FENCE. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6 IN.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que certificaré, diseña y prepara estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Renuncio a cualquier declaración falsa o falseamiento de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #37

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. INT. FAMILY COURT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

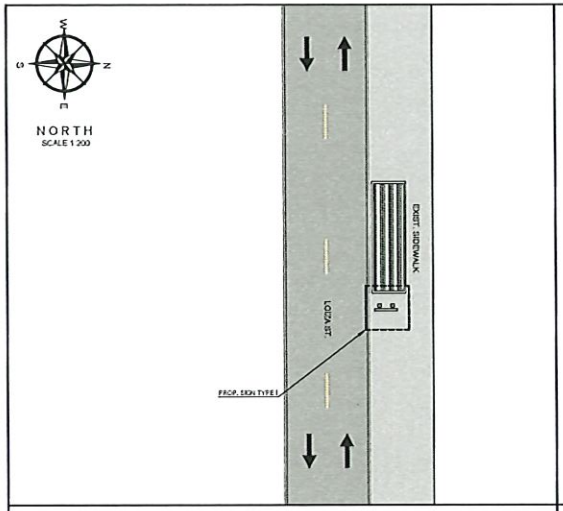
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.21	SHEET NO. 59 OF 88

ROUTE 5 | BUS STOP #38

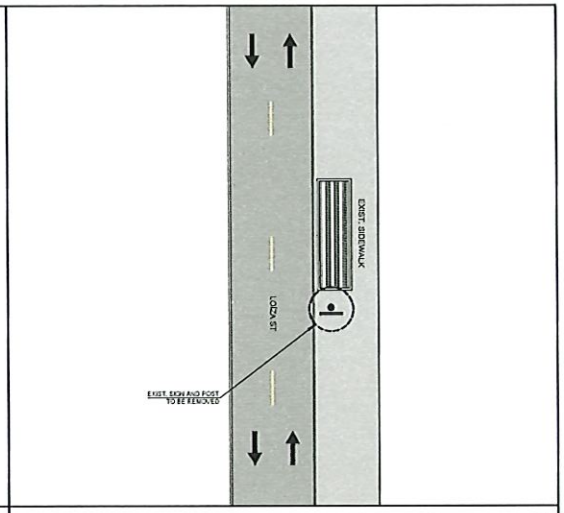
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

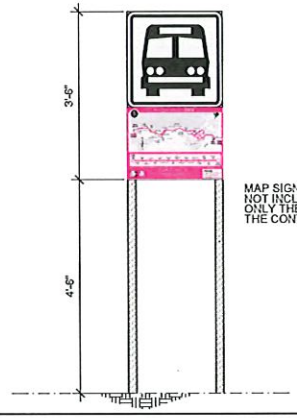


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#38



EXIST. CONDITIONS - ROUTE 5 | B.S.#38

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

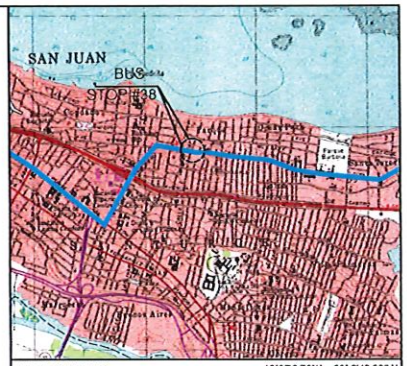
NOT TO SCALE

LEGEND:

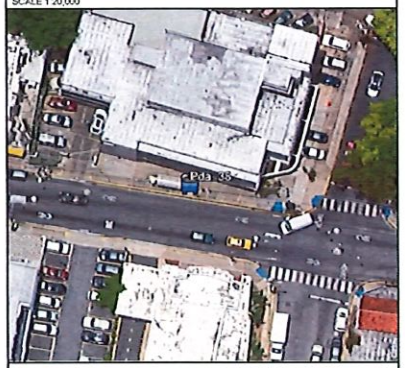
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.80 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.



LOCATION PLAN
SCALE 1:20,000
18°27'6.76"N , 66° 3'42.93"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPA.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #38

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. BEFORE F. KING'S COURT ST
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.22	SHEET NO. 60 OF 88

ROUTE 5 | BUS STOP #39

PHOTO - 1

PHOTO - 2

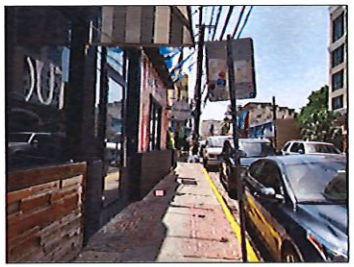
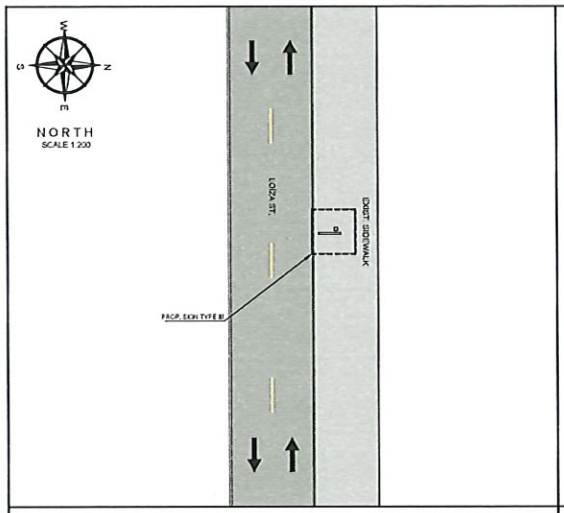
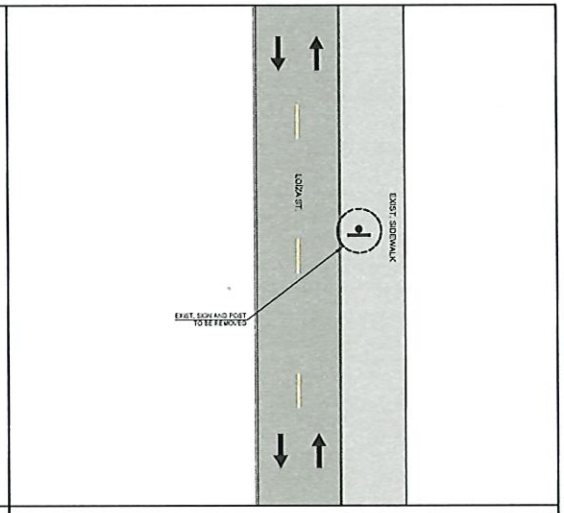


PHOTO - 3: PROPOSED SIGN LOCATION



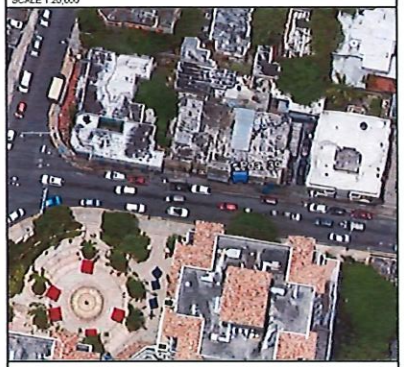
PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#39



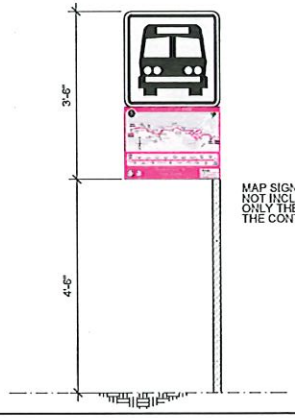
EXIST. CONDITIONS - ROUTE 5 | B.S.#39

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°27'7.50"N , 66° 3'48.18"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 FRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN NEXT TO PROPERTY WALL (NOT IN THE COURTAIN AREA). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccioné, diseño y a propuesta estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de los Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #39

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. BEFORE DE DIEGO AVE.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

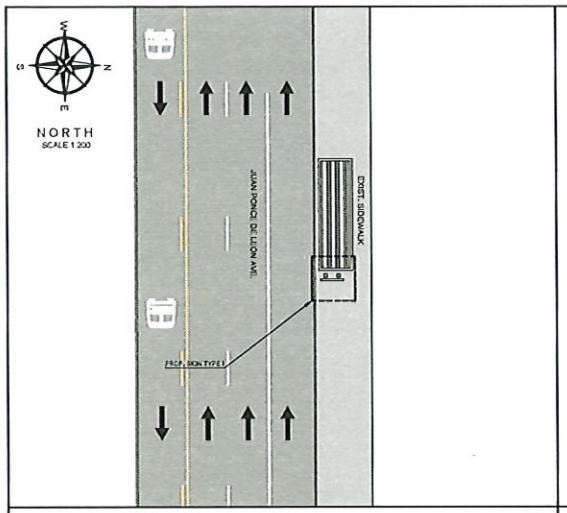
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.23	SHEET NO. 61 OF 88

ROUTE 5 | BUS STOP #43

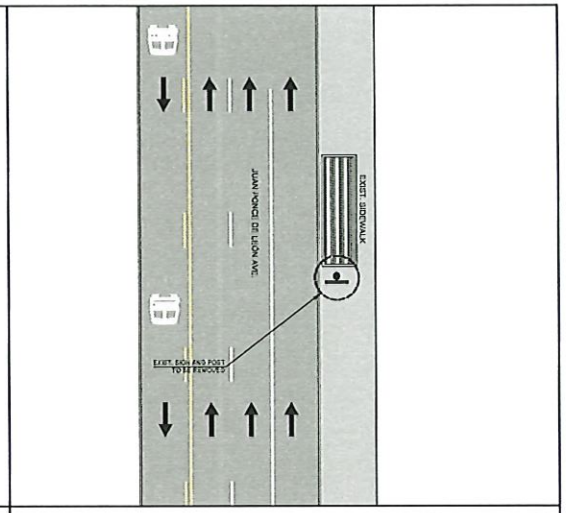
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

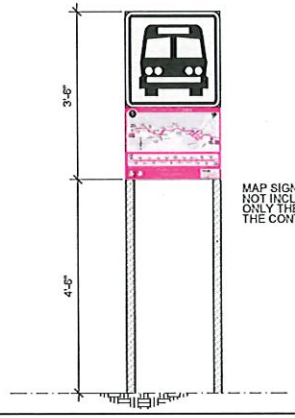


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#43



EXIST. CONDITIONS - ROUTE 5 | B.S.#43

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

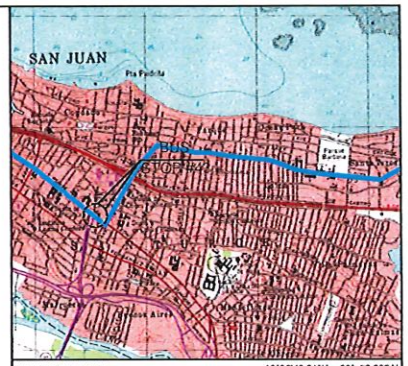
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.

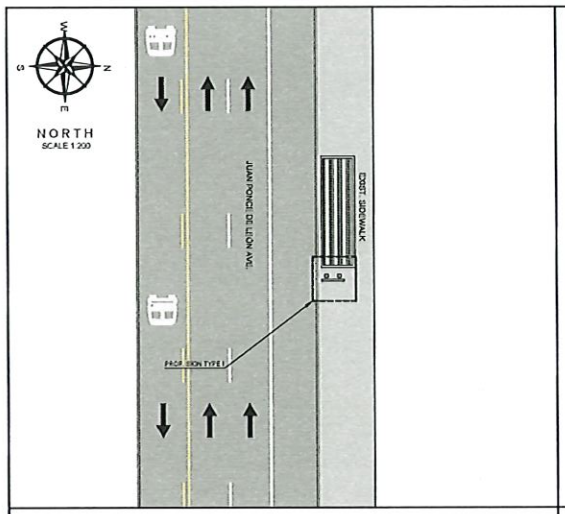

SAN JUAN
Pta Puerta de Tierra
Parque Barbosa
Parque Luis Muñoz Rivera
Parque Ceremonial Indígena de Caguax
Cementerio Santa Maria Magdalena de Pazzis
Cementerio Municipal
Cementerio Santa Ana
Cementerio Buen Pastor
Cementerio Parque Memorial
Cementerio Puerto Rico
Cementerio Monte Hermoso
Cementerio Santa Rosa
Cementerio Santa Ana
Cementerio Santa Rosa
Cementerio Santa Ana
Cementerio Santa Rosa
Cementerio Santa Ana

ROUTE 5 | BUS STOP #44

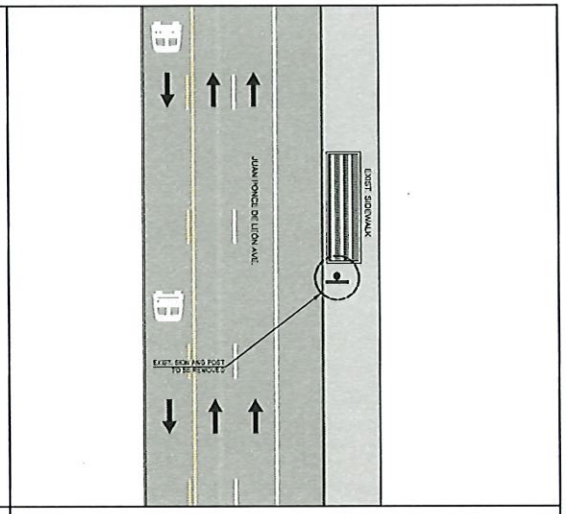
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

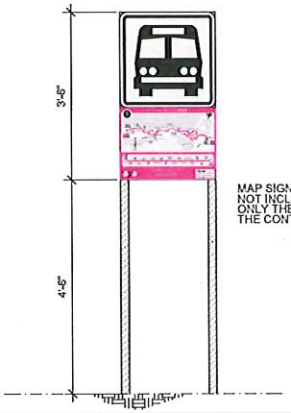


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#44



EXIST. CONDITIONS - ROUTE 5 | B.S.#44

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

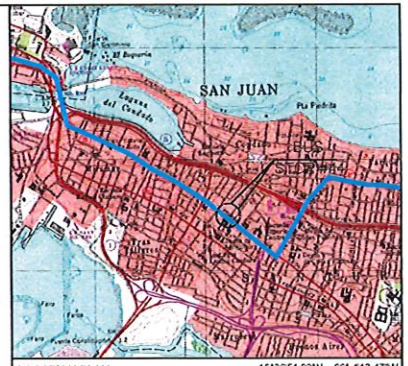
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.80 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°26'51.93"N , 66° 4'13.47"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseño y a preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias. Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DCPa.

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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #44

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE OPPOSITE SIDE OF
HIPÓDROMO ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

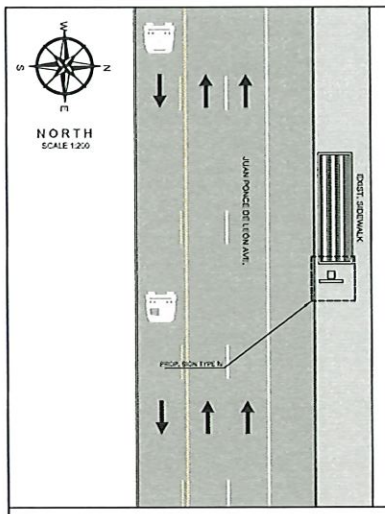
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.25	SHEET NO. 63 OF 88

ROUTE 5 | BUS STOP #45

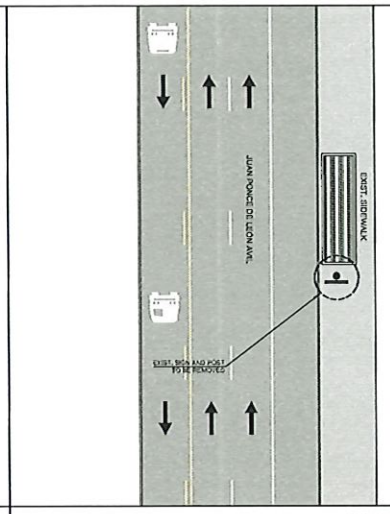
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

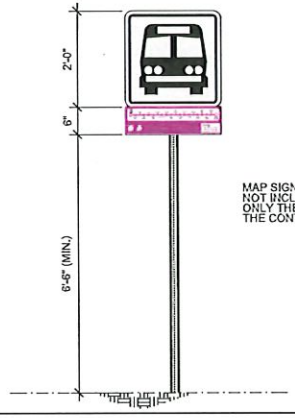


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#45



EXIST. CONDITIONS - ROUTE 5 | B.S.#45

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

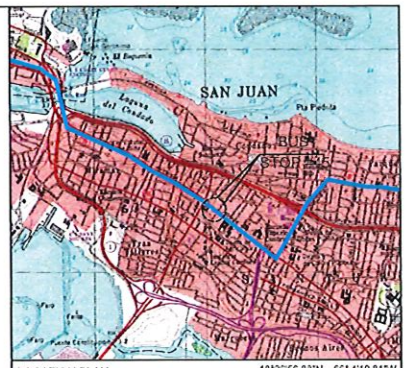
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRIMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRIMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.5'.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°26'56.83"N , 66° 4'19.81"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.5642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero Licenciado 19184 certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones conforme aquí se indican. También certifico que el diseño de estos planos y especificaciones se cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Cuerpos de Planificación de Jurisdicción. Reconozco que cualquier desviación sobre lo establecido en los mismos podrá ser sancionable o que conllevará que se me responsabilice por cualquier acción judicial y/o delito de ley por parte de DTPW.

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Guraabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 19184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #45

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE DEFFAUT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.26	SHEET NO. 64 OF 88

ROUTE 5 | BUS STOP #46

PHOTO - 1

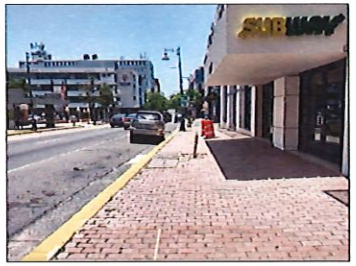


PHOTO - 2

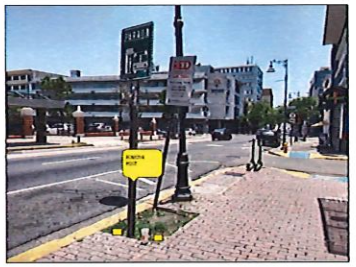
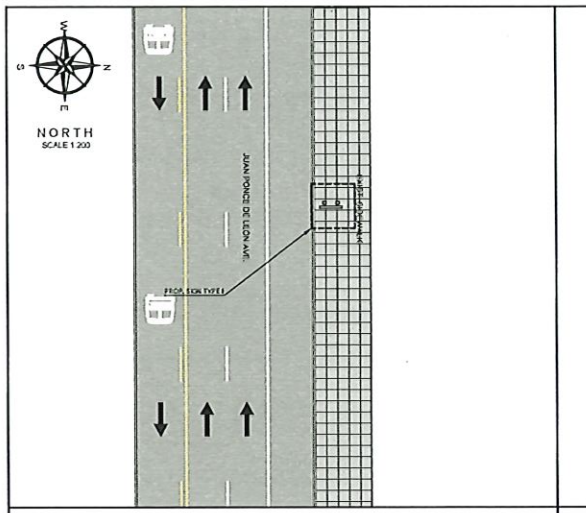
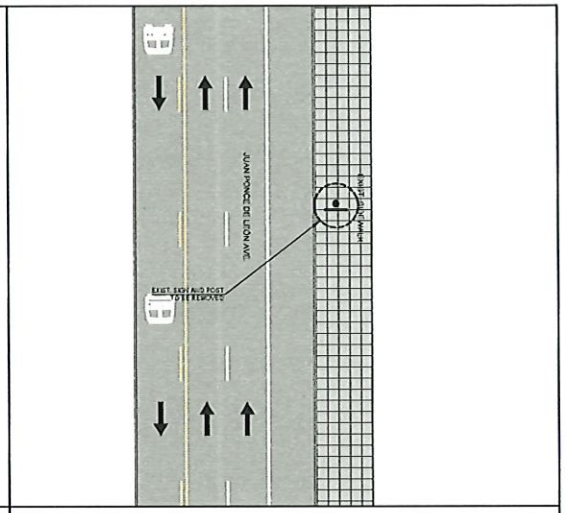


PHOTO - 3: PROPOSED SIGN LOCATION

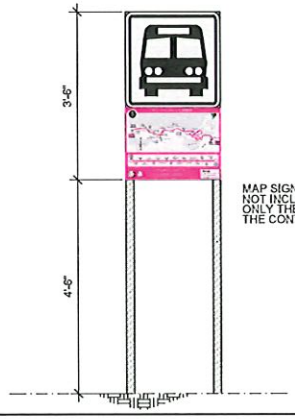


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#46



EXIST. CONDITIONS - ROUTE 5 | B.S.#46

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

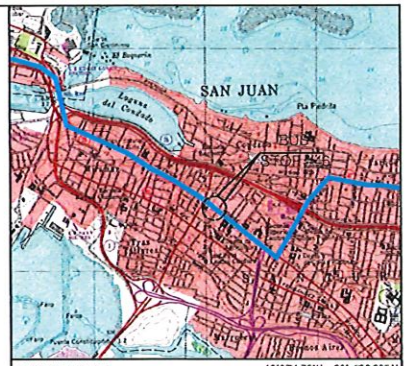
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE OTHER POST WITHOUT SIGN IN THE SAME PLACE.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°27'1.75"N , 66° 4'26.03"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Ye Hernan E. Lopez Baez, ingeniero licencia 18154, certifica que soy el profesional que confeccioné, diseño y a preparé estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Favorezco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #46

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE LABRA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

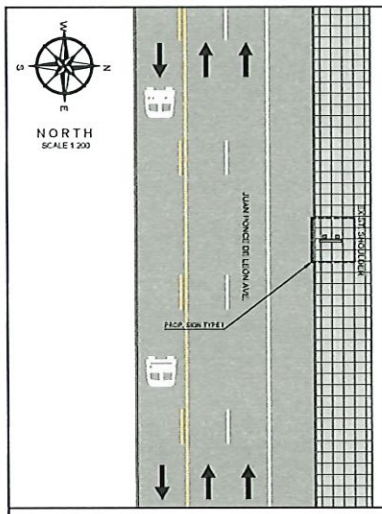
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.27	SHEET NO. 65 OF 88

ROUTE 5 | BUS STOP #47

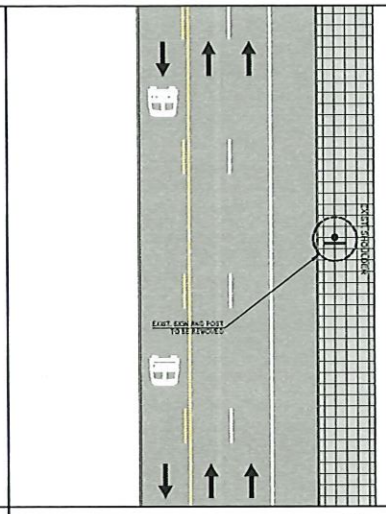
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

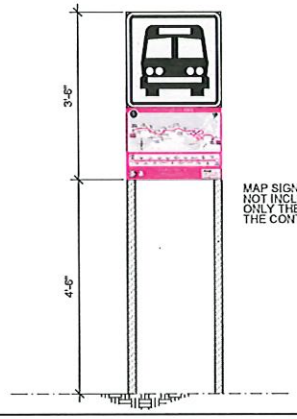


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#47



EXIST. CONDITIONS - ROUTE 5 | B.S.#47

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

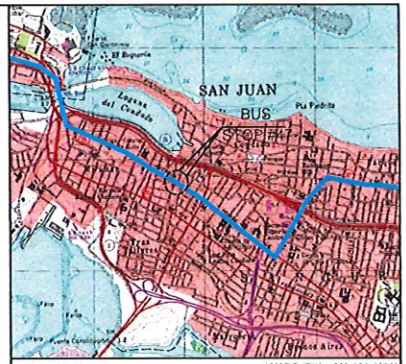
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FERMIA (EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

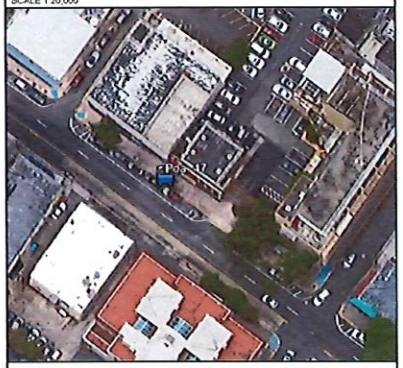
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE FRIMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH ONE OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAVE TILE TO INSTALL, BUY THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.30 M.



LOCATION PLAN
SCALE 1:20,000

18°27'5.47"N , 66° 4'31.45"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que estando que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación falsa o falsificación de los hechos que se haya incurrido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #47

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE JESÚS TIZOL ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

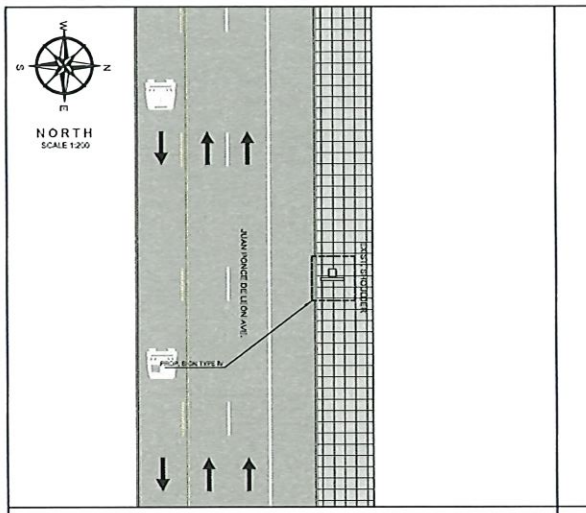
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.28	SHEET NO. 66 OF 88

ROUTE 5 | BUS STOP #48

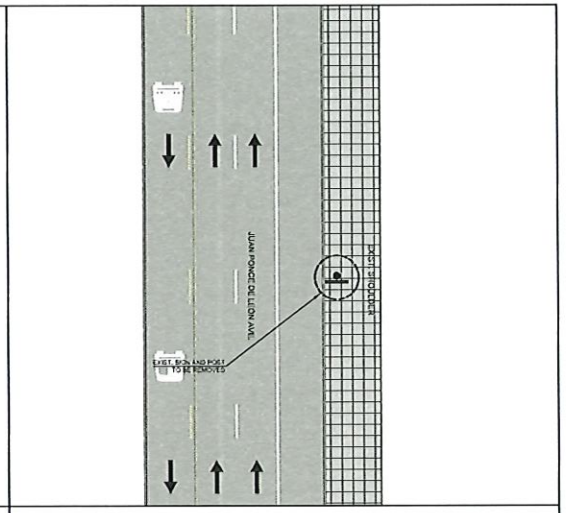
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

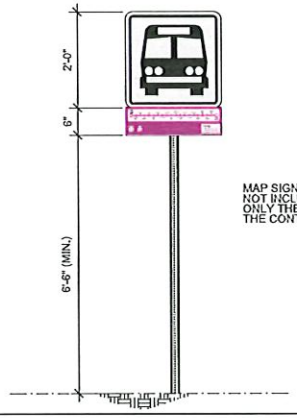


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#48



EXIST. CONDITIONS - ROUTE 5 | B.S.#48

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

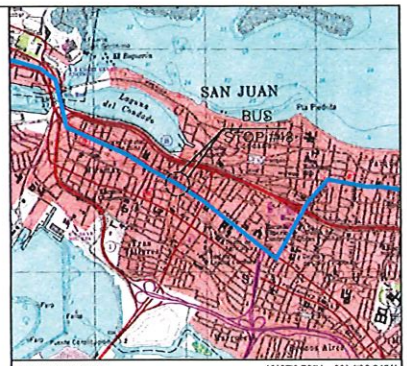
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVER TO THE PRIMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TIES NEXT TO LUMINAIRE POLE. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PHD OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL BUS THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.



LOCATION PLAN
SCALE 1:20,000

18°27'8.72"N , 65° 4'36.64"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18184 certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones conforme a estas. Tambien certifico que entiendo que dichos planos y especificaciones se ajustan con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de la Reglamentos y Código de Construcción Vigente de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se hayan producido por descuido, error o por negligencia de mi parte, así como por omisión o simplicidad o por otra persona por mi consentida, me hacen responsable de cualquier acción judicial y de multa de ley de hasta 500$.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaraba, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #48

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE INT RUCABADO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

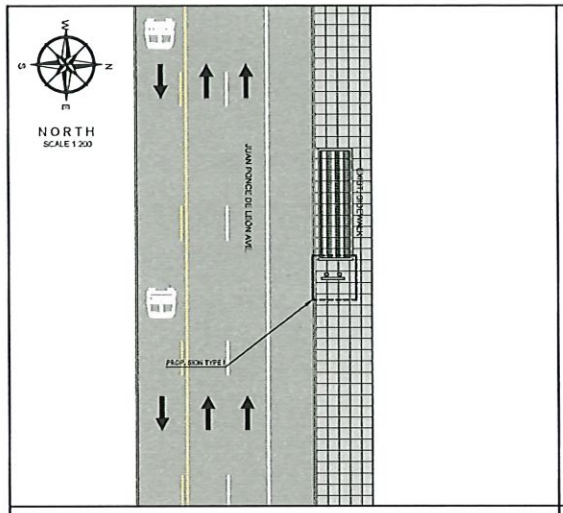
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.29	SHEET NO. 67 OF 88

ROUTE 5 | BUS STOP #49

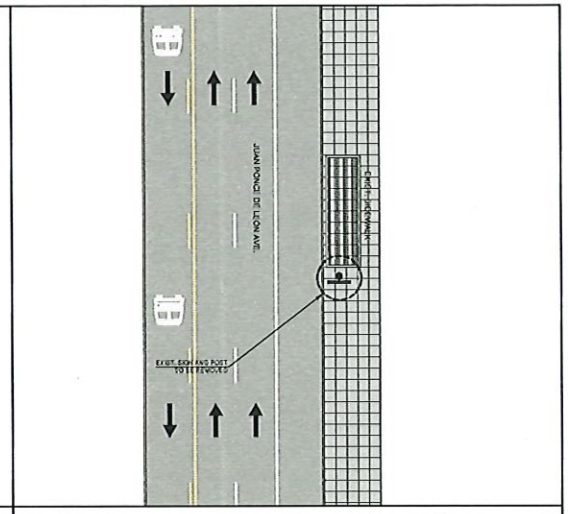
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

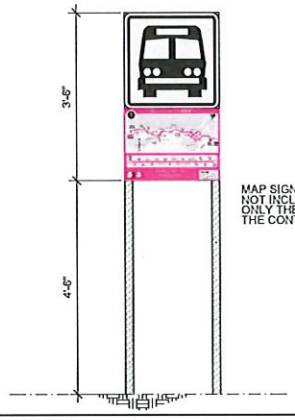


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#49



EXIST. CONDITIONS - ROUTE 5 | B.S.#49

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

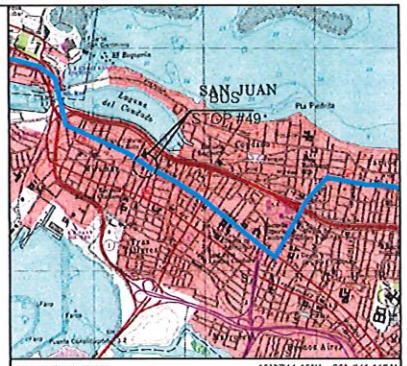
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PWD OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TILE TO INSTALL. BUY THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.



LOCATION PLAN
SCALE 1:20,000
18°27'11.18"N , 66° 4'41.11"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccioné, diseño y a preparé estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPe.

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TEL. (787) 649-6200 | lopezbaez@enzogroupllc.org

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #49

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE INT. MONSERRATE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

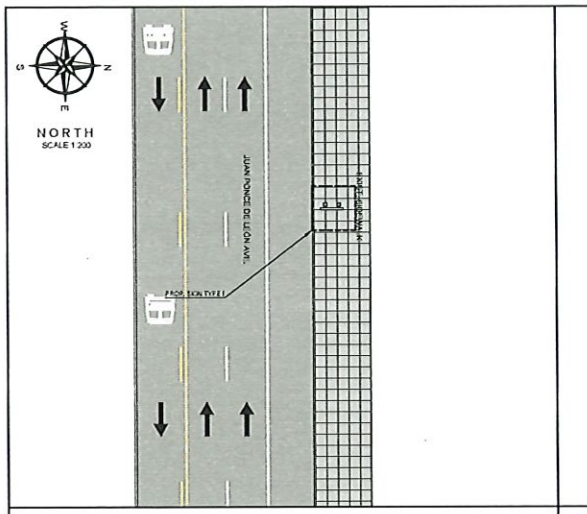
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.30	SHEET NO. 68 OF 88

ROUTE 5 | BUS STOP #50

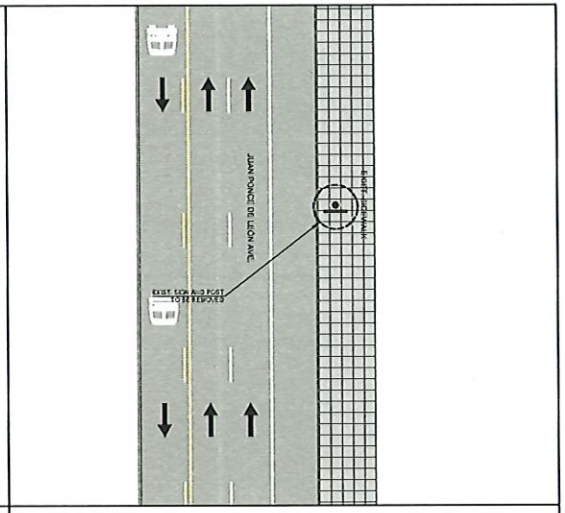
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

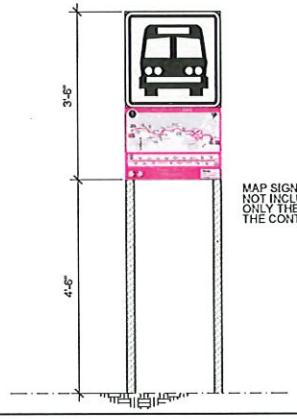


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#50



EXIST. CONDITIONS - ROUTE 5 | B.S.#50

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
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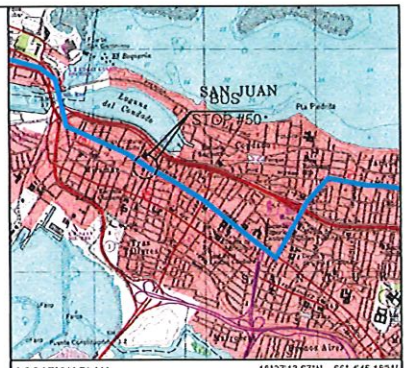
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PMD OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TILE TO INSTALL, BUY THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.30 M.



LOCATION PLAN
SCALE 1:20,000
18°27'13.67"N , 66° 4'45.18"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseño y a propiedad estos planos y las especificaciones complementarias. Tambien certifico que estando que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #50

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE HOARE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

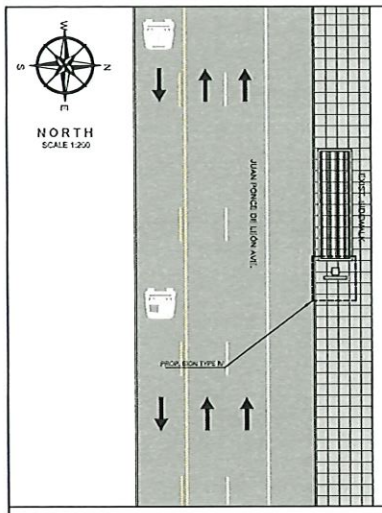
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.31	SHEET NO. 69 OF 88

ROUTE 5 | BUS STOP #51

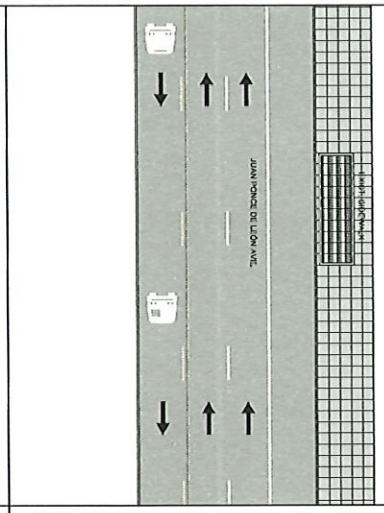
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

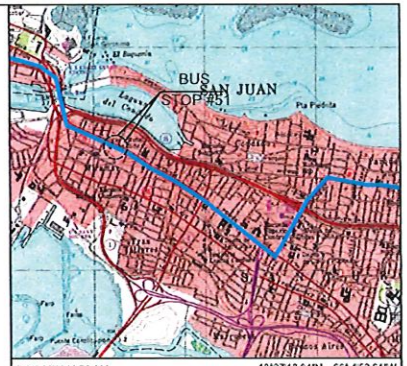


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#51



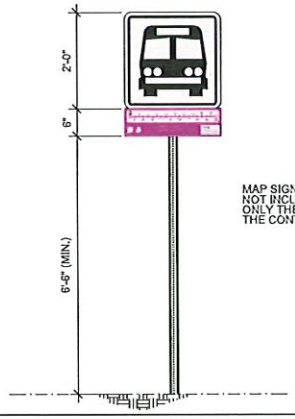
EXIST. CONDITIONS - ROUTE 5 | B.S.#51

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'18.047"N , 66° 4'52.61"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.6542 PRO



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TIERS. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PRO OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TILE TO INSTALL, SIX THREE TIERS (3). REFER TO PHOTO #3.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.6 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 19154, certifico que soy el profesional que certificó, diseñó y preparó estos planos y las especificaciones cumplen en todo. También certifico que en todo lo que diseñé planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se hayan producido por desconocimiento o por negligencia que sea por mi, mis agentes o empleados o por otra persona por mi convenida, me hacen responsable de cualquier acción judicial y delito bajo la ley.

ENZO Engineering, psc.
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 19154

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #51

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE TRIGO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

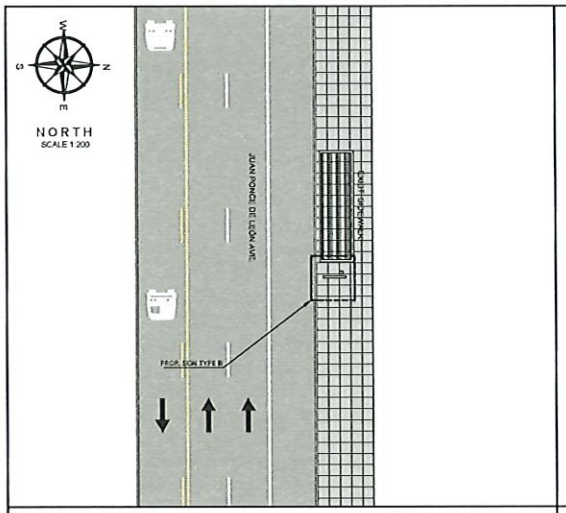
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.32	SHEET NO. 70 OF 88

ROUTE 5 | BUS STOP #52

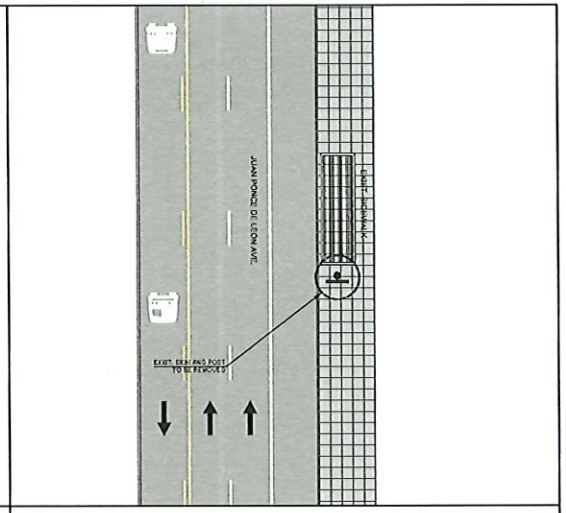
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

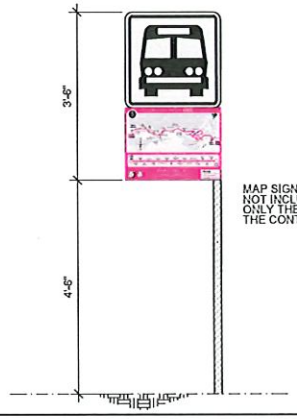


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#52



EXIST. CONDITIONS - ROUTE 5 | B.S.#52

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

PROPOSED SIGN TYPE III

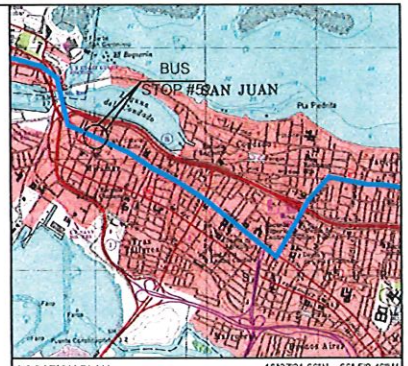
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

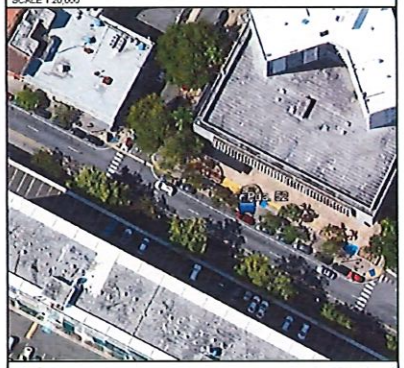
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PNP OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL, BUT THREE TILES (3). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.



LOCATION PLAN
SCALE 1:20,000

18°27'21.66"N , 66° 50.45"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. López Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otra persona por mí consentida me hacen responsable de incurrir acción judicial y disciplinaria por la JCPs.

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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #52

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE ENSENADA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

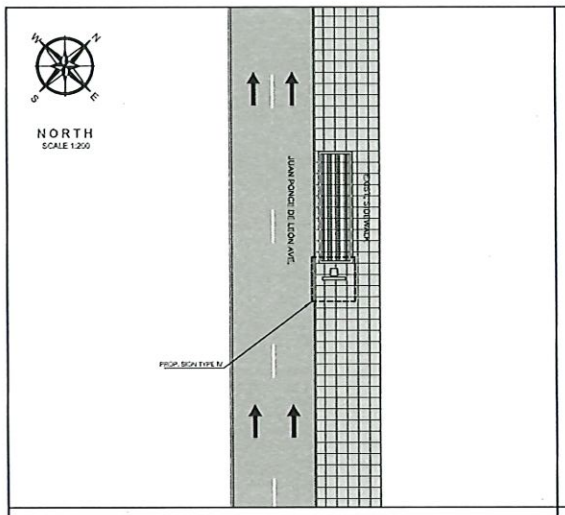
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.33	SHEET NO. 71 OF 88

ROUTE 5 | BUS STOP #53

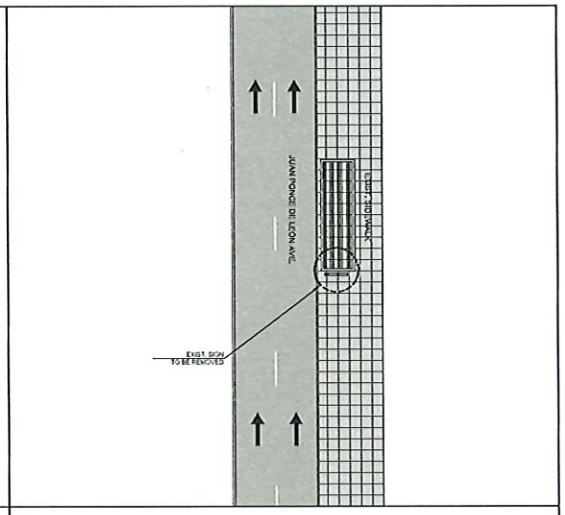
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

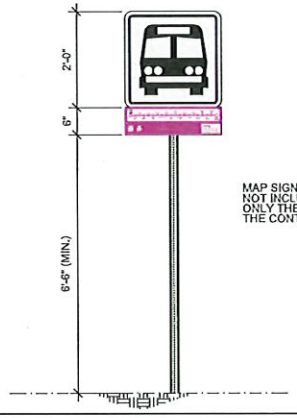


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#53



EXIST. CONDITIONS - ROUTE 5 | B.S.#53

2.5 0 5 15
SCALE 1:200



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

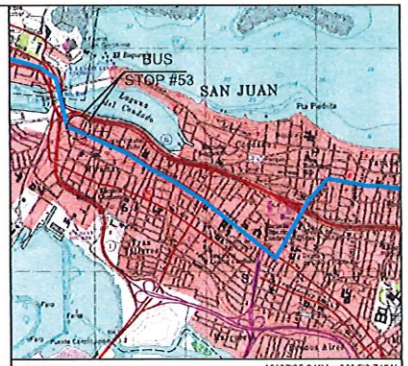
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK, REFER TO PHOTO #3.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.



LOCATION PLAN
SCALE 1:20,000
18°27'25.94"N , 66° 58.74"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez Ingeniero, licencia 18154 certifico bajo mi responsabilidad profesional que certifico, diseño y preparé estos planos y las especificaciones, cumplen con las normas Federales, estatales y municipales aplicables, que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de la Reglamentación y Código de Construcción Vigentes de la Agencia Junta Reglamentadora y Corporaciones Públicas con Jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se hacen producto por descuido intencional o por negligencia, ya sea por mí o de alguna persona con mi conocimiento, no hacer responsable de cualquier acción judicial y/o delito por la DOPR.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #53

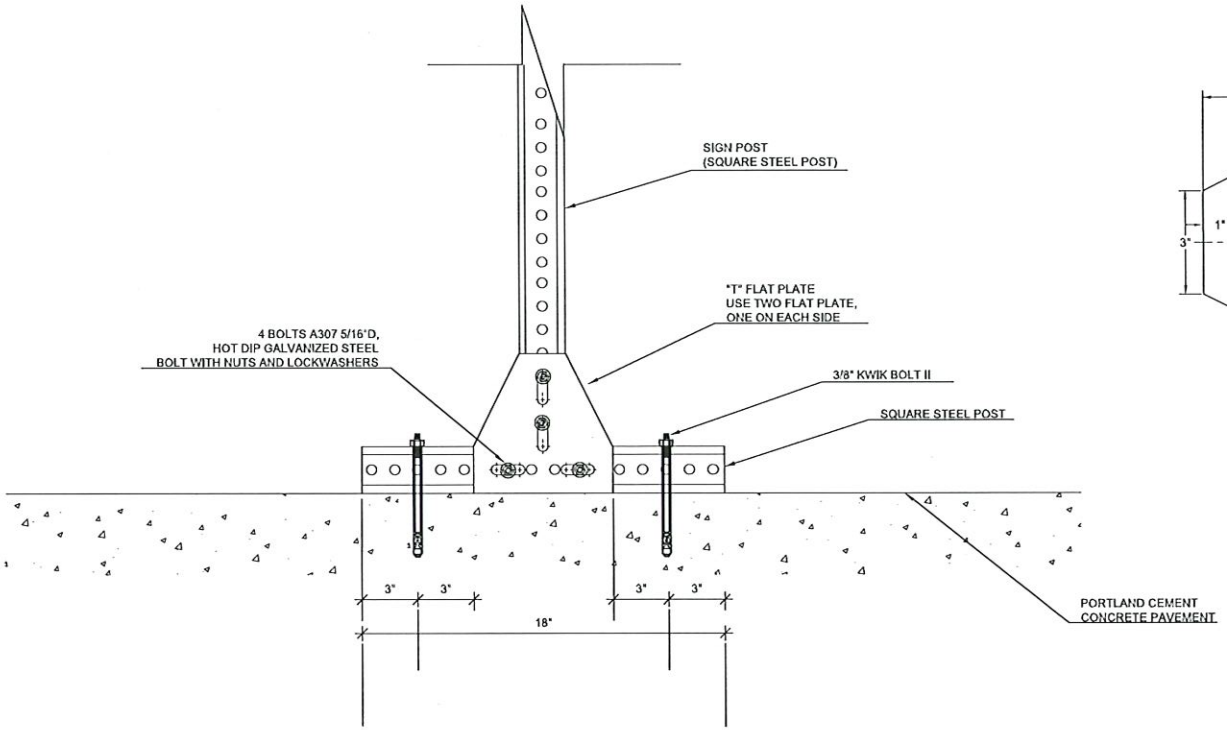
FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE OPPOSITE SIDE OF OLIMPO ST.
MUNICIPALITY OF SAN JUAN

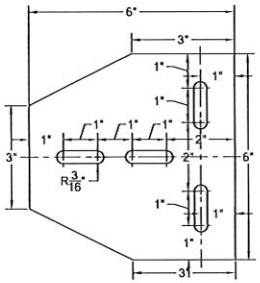
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

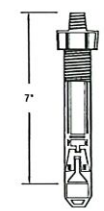
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.34	SHEET NO. 72 OF 88

ROUTE 5 | BUS STOPS





"T" FLAT PLATE



3/8" KWIK BOLT II AS
MANUFACTURED BY HILTI

GENERAL NOTES:

1. THE STEEL FLAT PLATE SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A570 GRADE 33 OR ASTM A36.
2. AFTER ALL PUNCHING, DRILLING, STAMPING AND WELDING IS COMPLETE, THE STEEL FLAT PLATE SHALL BE ZINC-COATED BY THE HOT-DIP PROCESS ACCORDING TO AASHTO M111 (ASTM A123).
3. STEEL FLAT PLATE THICKNESS SHALL BE 1/8".
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST CONNECTIONS AS A SUBSIDIARY OBLIGATION.

Yo, Hernan E. Lopez Baez Ingeniero licencia 18104 certifico que soy el profesional que confeccionó, diseño y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con Jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OCPs.

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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18104PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - INSTALATION TO CONCRETE SLAB

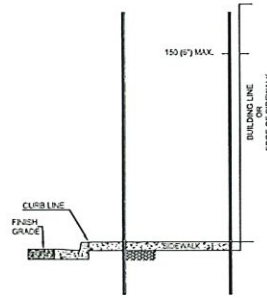
FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

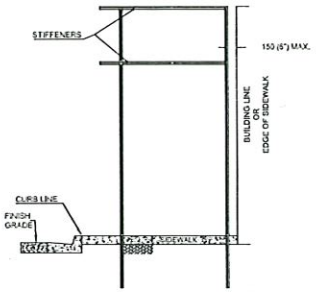
AUTORIDAD METROPOLITANA DE AUTOBUSES

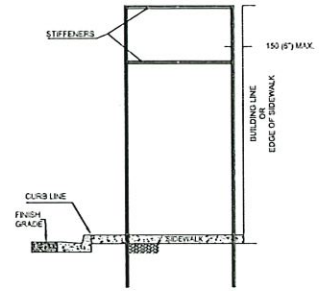
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.01	SHEET NO. 73 OF 88

ROUTE 5 | BUS STOPS

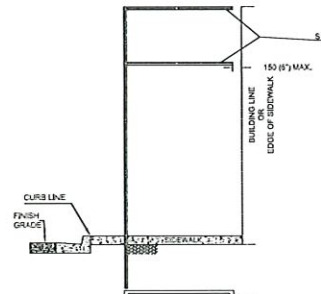






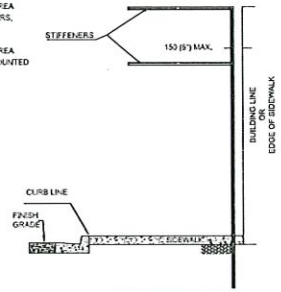
H SUPPORT MOUNTING

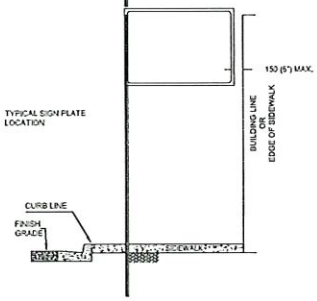
1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.8 SQUARE METERS, 28 SQUARE FEET.
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQF USE GROUND MOUNTED BREAK-AWAY INSTALLATION.



CANTILEVER SUPPORT MOUNTING

1. FOR SQUARE, RECTANGULAR, PENTAGONAL, OCTAGONAL, DIAMOND AND EQUILATERAL TRIANGLE SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH GREATER THAN 600 (24").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").

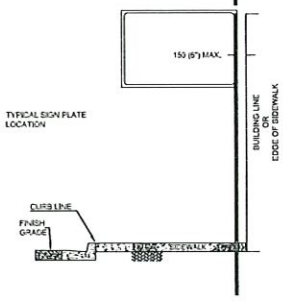




SINGLE SUPPORT MOUNTING

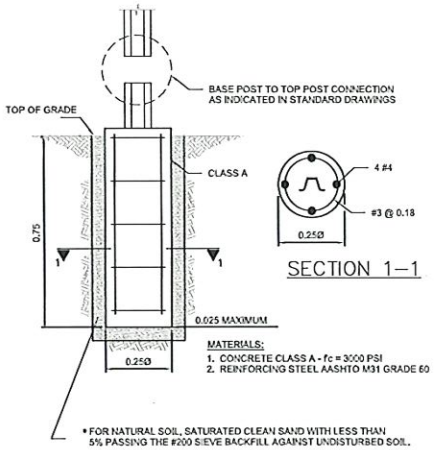
1. FOR SQUARE AND RECTANGULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24")

   FOR ISOSCELES TRIANGLE SIGN PANEL USE SINGLE SUPPORT
2. MOUNTING.



GENERAL NOTES:

1. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2,130 (7'-0") TO 2,300 (7'-6") FROM SIDEWALK GRADE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. THE FOUNDATIONS SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS FOR SIDEWALK OR CONCRETE PAVED AREA STANDARD DRAWING.
   TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS STANDARD DRAWING.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
5. ALL VERTICAL POSTS SHALL BE CONTINUOS IN LENGTH.
6. THE MAXIMUM AREA PERMITTED FOR SINGLE AND CANTILEVER SUPPORT MOUNTING SHALL BE 6 SQUARE FEET.
7. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
8. MINIMUM OFFSET FROM CURB LINE TO SIGN PANEL SHALL BE 600 (24") MIN.
9. THE CONTRACTOR SHALL LOCATE POST AND STIFFENERS AS PER TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS



SECTION 1—1

MATERIALS:
1. CONCRETE CLASS A - fc = 3000 PSI
2. REINFORCING STEEL AASHTO M31 GRADE 60

- FOR NATURAL SOIL, SATURATED CLEAN SAND WITH LESS THAN 5% PASSING THE #200 SIEVE BACKFILL AGAINST UNDISTURBED SOIL.
- FOR ROCK CONDITION, BACKFILL WITH 1,000 PSI GROUT

NOTE:
ALL DIMENSIONS SHOW ARE IN METERS UNLESS OTHERWISE SPECIFIED.

Yo, Hernan E. Lopez Baez Ingeniero Licencia 18164 certifico que soy el responsable de confeccionar, diseñar y preparar estos planos y las especificaciones complementarias, también certifico que el diseño que aparece en los mismos cumple con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se vean producidos por desconocimiento o por negligencia grave por mi o de agentes o empleados a cargo o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y/o de la ley 9 de 1975 y la ley 9 de 1976.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guraabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18 SATE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - INSTALATION TO CONCRETE SLAB
STEEL FLANGED CHANNEL

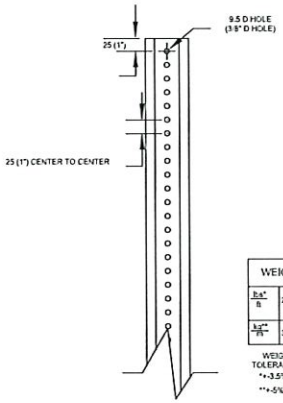
FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

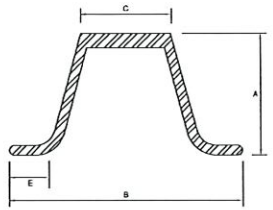
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.02	SHEET NO. 74 OF 88

ROUTE 5 | BUS STOPS





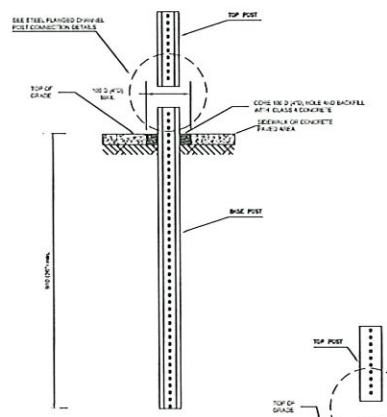
WEIGHT			NOMINAL DIMENSIONS			
lbs/ft	2.00	IN	"A"	"B"	"C"	"E"
			1.45 TO 1.55	3.00 TO 3.15	1.25 TO 1.33	0.62 TO 0.67
kg/m	3.00	MM	37 TO 38.5	77.5 TO 79.5	31.75 TO 32.5	15.8 TO 17.0

WEIGHT TOLERANCES
**-3.5%
**+5%

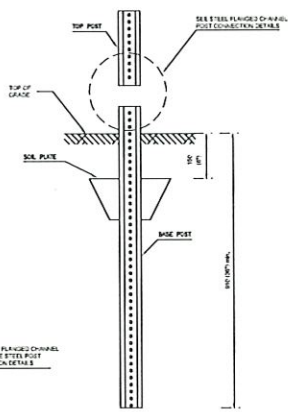
GENERAL NOTES:

1. STEEL POST SHALL CONFORM TO THE REQUIREMENTS OF ASTM A499, GRADE 60 OR MARION STEEL COMPANY GRADE SP-80.
2. AFTER FABRICATION, POST SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123).
3. THE BASE POST MAY HAVE SLOTTED HOLE 9.5 X 13 FOR THE FIRST AND FIFTH HOLE.

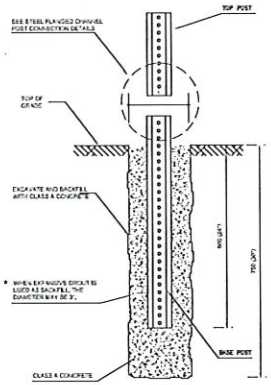
STEEL FLANGED CHANNEL
TOP OR BASE POST



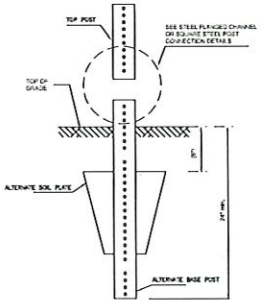
SIDEWALK OR CONCRETE
PAVED AREA



NATURAL SOIL
USE SOIL PLATE



ROCK CONDITION



NATURAL SOIL
ALTERNATE BASE POST AND SOIL PLATE

GENERAL NOTES:

1. THE CONTRACTOR SHALL USE APPROPRIATE SIZE DRIVE CAP TO DRIVE POSTS.
2. FOR SIDEWALK OR CONCRETE PAVED AREA, THE CONTRACTOR SHALL CORE SIDEWALK 9.5 (3/8") AND BACKFILL WITH CLASS A CONCRETE AS A SUBSIDIARY OBLIGATION.
3. FOR ROCK CONDITION, THE CONTRACTOR SHALL EXCAVATE (8" DIAMETER HOLE) AND BACKFILL WITH CLASS A CONCRETE OR EXCAVATE (8" DIAMETER HOLE) AND BACKFILL WITH EXPANSIVE GROUT AS A SUBSIDIARY OBLIGATION.

NOTE APPLICABLE TO ALL SMALL TRAFFIC SIGNS DRAWINGS:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
   DIMENSIONS GIVEN IN METERS SHALL BE INDICATED WITH: M
   DIMENSIONS GIVEN IN INCHES SHALL BE INDICATED WITH: "
   DIMENSIONS GIVEN IN FEET SHALL BE INDICATED WITH: '
2. SYSTEMS IN ENGLISH UNITS ARE ACCEPTABLE.
3. DIAMETER SHALL BE INDICATED WITH "D"
4. REFLECTIVE SHEETING USED ON ALL SIGNS SHALL CONFORM TO ASTM D4956, TYPE III. THE BACKING SHALL BE CLASS 1 OR 2.

NOTE APPLICABLE TO ALL BASE TO TOP POST CONNECTION DETAILS:

1. CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF COUPLINGS BETWEEN THE BASE AND TOP POST MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: COPY OF FHWA LETTER OF ACCEPTANCE THAT THE DEVICE COMPLIES WITH THE NCHRP REPORT 350 REQUIREMENTS. FULL DESCRIPTION AND DRAWINGS OF THE COUPLER INCLUDING DIMENSIONS OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION OF THE BASE METAL, GALVANIZING, FASTENERS AND OTHER PERTINENT INFORMATION.

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18104, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias, y certifico que el diseño que aparece en estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Conservadoras Pertinentes con Jurisdicción. Asumiendo que cualquier modificación total o fraccionada de los mismos que se haga posteriormente y/o cualquier error, negligencia o omisión en el diseño aquí certificado o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y/o daños que se le pueda ocasionar.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18104

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL DETAILS AND FOUNDATIONS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

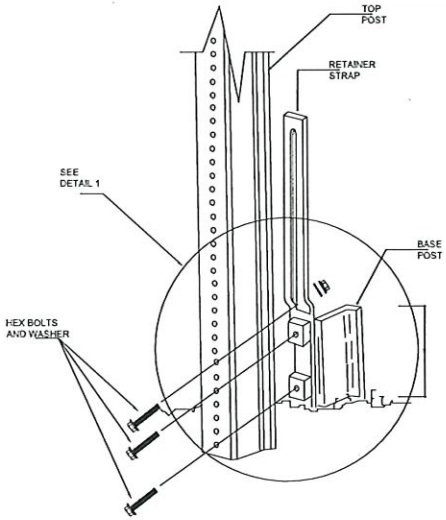
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

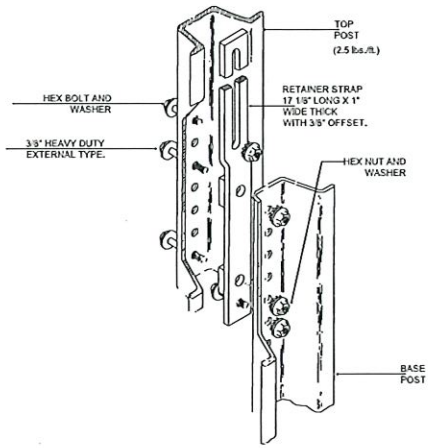
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.03	SHEET NO. 75 OF 88

EZE-ERECT SYSTEM

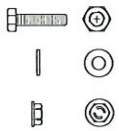
AS MANUFACTURED BY FRANKLIN INDUSTRIES



EZE-ERECT CONNECTION DETAIL



DETAIL 1

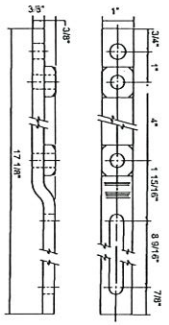


CLASS 12.9 HEX BOLT, WASHER AND NUT

AS SPECIFIED BY FRANKLIN INDUSTRIES

GENERAL NOTES FOR EZE-ERECT SIGN SUPPORT SYSTEM

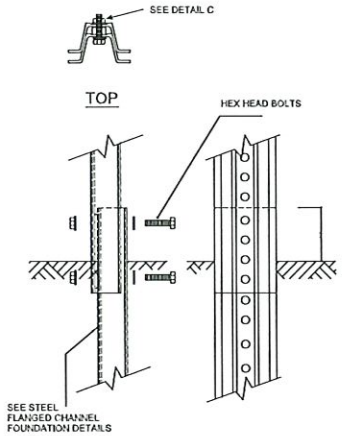
1. THE RETAINER STRAP SHALL BE GALVANIZED BY THE HOT DIP PROCESS CONFORMING TO ASTM A123.
2. HEX BOLT SHALL BE MANUFACTURED ACCORDING TO THE GEOMETRIC SPECIFICATIONS INCLUDED IN ANSI B18.2.3.5M THREADS SHALL CONFORM TO ANSI B1.13M FOR CLASS 6g THREADS.
3. MATERIALS FOR BOLTS SHALL CONFORM TO ASTM F568 FOR CLASS 12.9 (1220 MPA TENSILE STRENGTH AND 1100 MPA YIELD STRENGTH). BOLT HEAD SHALL BE MARKED AS SPECIFIED IN ASTM F568 SECTION 9 WITH THE MANUFACTURER'S IDENTIFICATION SYMBOL AND THE SYMBOL "12.9".
4. NUTS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONS AND TOLERANCES IN ANSI B18.2.4.4M FOR METRIC HEX FLANGE NUTS. THE M8x1.25 THREADS SHALL CONFORM TO ANSI B1.13M FOR CLASS 6H.
5. NUTS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M291M FOR CLASS 12 NUTS. PLAIN ROUND STEEL WASHERS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONAL AND TOLERANCES IN ANSI B18.22M FOR REGULAR SERIES WASHERS.
6. BOLTS, NUTS AND WASHER SHALL BE ZINC COATED ACCORDING TO AASHTO M232.
7. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER INSTALLATION INSTRUCTIONS.



RETAINER-SPACER STRAP

LAP SPLICE BREAKAWAY SYSTEM

AS MANUFACTURED BY MARION STEEL COMPANY

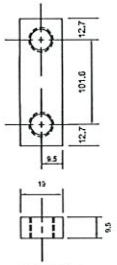


DETAIL A

SPLICE CONNECTION

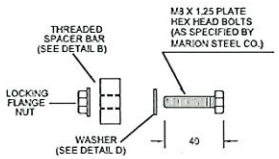
DETAIL D

PLAIN ROUND STEEL WASHER



DETAIL B

LAP SPLICE SPACER BAR (PROPRIETARY)



DETAIL C

CONNECTORS (PROPRIETARY)

GENERAL NOTES FOR LAP SPLICE BREAKAWAY SYSTEM

1. THE SPACER BAR SHALL BE FABRICATED FROM HOT ROLLED CARBON STEEL BARS CONFORMING TO AASHTO M183M.
2. SPACER BAR SHALL BE DRILLED AND TAPPED WITH M 8 X 1.25 THREADS AS SPECIFIED IN ANSI B1.13M FOR CLASS G THREADS.
3. SPACER BAR SHALL BE SILVER COLORED AS PER MARION STEEL.
4. SPLICE HARDWARE SHALL BE ZINC PLATED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM B633.
5. HEX BOLT SHALL BE IDENTIFIED BY HEAD MARKINGS OF "M180" AS WELL AS A RED FINISH.
6. PLAIN ROUND STEEL WASHERS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONS AND TOLERANCES IN ANSI B18.22M FOR REGULAR SERIES WASHER.
7. PLAIN ROUND STEEL WASHER SHALL BE ZINC-COATED ACCORDING TO AASHTO M232 FOR CLASS D.

Yo, Hernan E. Lopez Baez Ingeniero licencia 18104, certifico que soy el profesional que confeccionó, diseñó y preparó estos dibujos y las especificaciones complementarias. También certifico que el diseño de dichos dibujos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias Antes Reglamentarias o Gubernamentales Pertinentes con jurisdicción. Asimismo que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia propia por parte de mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5

STEEL POST - STEEL FLANGED CHANNEL DETAILS AND FOUNDATIONS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL

MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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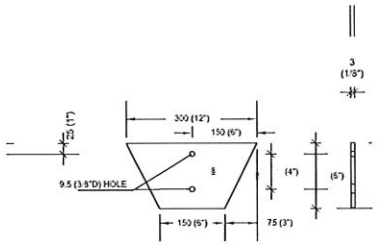
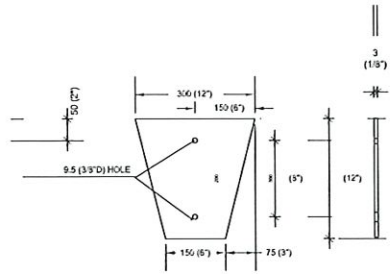
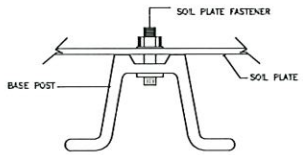
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.04	SHEET NO. 76 OF 88



SOIL PLATE

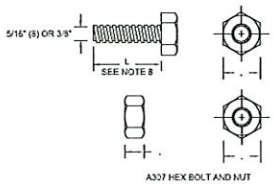


ALTERNATE SOIL PLATE



FLANGED CHANNEL POST

METHOD OF ATTACHING SOIL PLATE TO POST



SOIL PLATE FASTENER

GENERAL NOTES:

1. SOIL PLATE SHALL BE MANUFACTURED ACCORDING TO AASHTO M183.
2. AFTER ALL PUNCHING, DRILLING, STAMPING AND WELDING IS COMPLETE, THE SOIL PLATE SHALL BE ZINC-COATED BY THE HOT-DIP PROCESS ACCORDING TO AASHTO M111 (ASTM A 123). THICKNESS GRADE 65.
3. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.
4. THE CONTRACTOR SHALL USE TWO (2) SOIL PLATE FASTENERS FOR ATTACHING SOIL PLATE TO BASE POST.

Yo, Hernan E. Lopez Baez Ingeniero licencia 18164, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias, y certifico que el diseño que refleja estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias. Además Reglamentos Generales Aplicables (en lo aplicable). Reconozco que cualquier modificación total o fraccionada que se haga posteriormente a por negligencia o sea por mal uso o aplicada a por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y/o delito en virtud de la ley de 1929.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
SOIL PLATE DETAILS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL

MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
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SAN JUAN, PR 00919-5349

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DATE: JUNE 2022	
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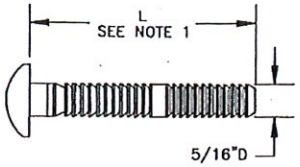
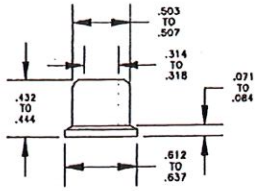
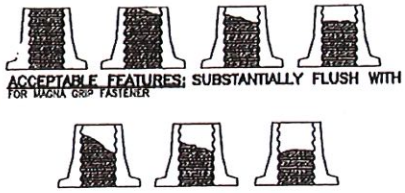
DWG. TYPE: TS-3.05	SHEET NO. 77 OF 88



MAGNA GRIP FASTENER
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGPB–E 5/16" – 22 G

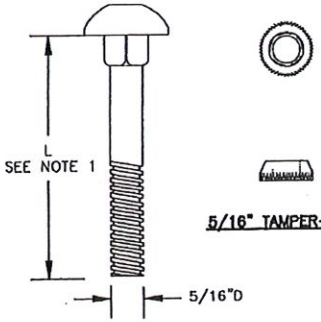


MAGNA GRIP COLLAR
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGC–F 5/16" G

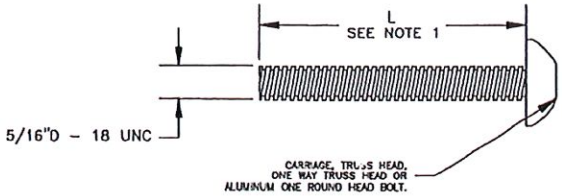


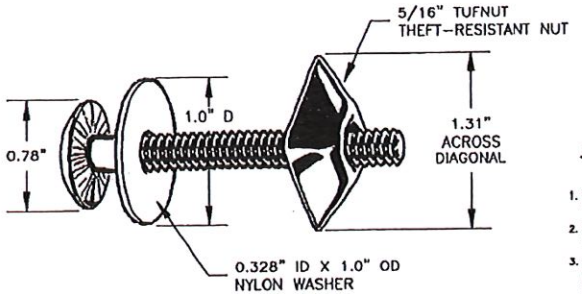
ACCEPTABLE FEATURES: SUBSTANTIALLY FLUSH WITH END
FOR MAGNA GRIP FASTENER

UNACCEPTABLE FEATURES
FOR MAGNA GRIP FASTENER



5/16" TAMPER–NUT





TUFBOLT SYSTEM – TBS 25
AS MANUFACTURED BY THE TUFNUT WORKS
A DIVISION OF SANTA FE SYSTEMS, INC.

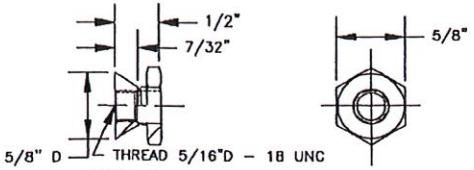
ALUMINUM VANDAL RESISTANT
GENERAL NOTES

1. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT ACCORDING TO THE POST TYPE. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.
2. THE CONTRACTOR SHALL USE A NYLON, NEOPRENE OR FIBER WASHER BETWEEN REFLECTIVE SHEATHING SIGN FACE AND THE BOLT HEAD.
3. CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF FASTENERS FOR SIGN PLATES MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: FULL DESCRIPTION AND DRAWINGS OF THE FASTENERS AND COMPLETE MATERIAL DESCRIPTION, GALVANIZING AND OTHER PERTINENT INFORMATION.
4. FASTENER DETAILS ARE FOR ILLUSTRATIVE PURPOSE ONLY.

CARRIAGE BOLT

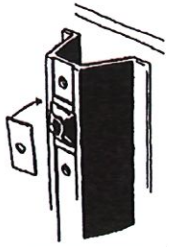
TRUSS HEAD BOLT

ONE WAY TRUSS HEAD BOLT
OR ALUMINUM ONE WAY ROUND HEAD



ALUMINUM STD THREAD VANDLGARD–NUT
VCN 138–5

AS MANUFACTURED BY SIMI FASTENING



TUFNUT MARION
POST WASHERS

Yo, Hernan E. Lopez Baez Ingeniero licencia 18164, certifico que soy el profesional que confeccionó, diseñó y preparó estas láminas y las especificaciones complementarias. También certifico que el diseño que Aparece plasmado en estas láminas y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de la Reglamento y Código de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Asumiendo que cualquier declaración falsa o falsificación de los hechos que he sido producida por desconocimiento o por negligencia grave por mi o la agencia o empleados o por otras personas con mi conocimiento, no tienen responsabilidad de cualquier acción jurídica y disciplinaria por la OGPe.

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LIC. 18164

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
FOR ATTACHING SIGN PLATES TO TOP POST
FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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REVISION	
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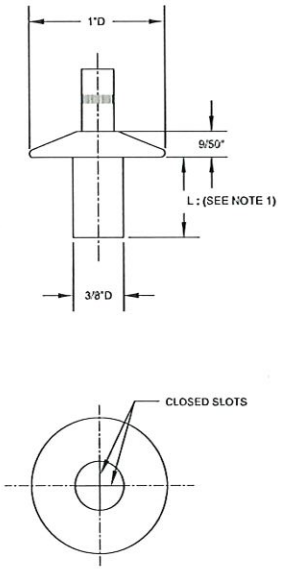
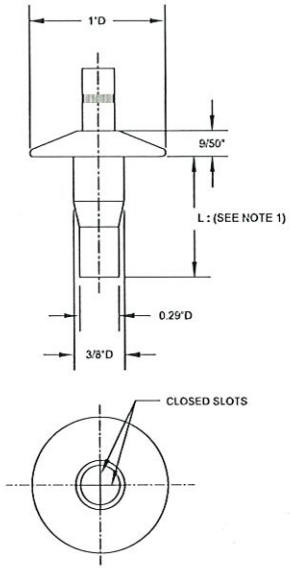
DWG. TYPE: TS-3.06	SHEET NO. 78 OF 88



ALUMINUM SIGN RIVET - JUMBO HEAD

VCR 221
AS MANUFACTURED BY SIMI FASTENING



MODIFIED ALUMINUM DRIVE RIVET

(RIVET = 2117 ALUMINUM NATURAL, P/N = 7075 ALUMINUM NATURAL)
AS MANUFACTURED BY SOUTHCO

GENERAL NOTES

1. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT ACCORDING TO THE POST TYPE. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.
2. THE CONTRACTOR SHALL USE A NYLON, NEOPRENE OR FIBER WASHER BETWEEN REFLECTIVE SHEATHING SIGN FACE AND THE BOLT HEAD.
3. CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF FASTENERS FOR SIGN PLATES MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: FULL DESCRIPTION AND DRAWINGS OF THE FASTENERS AND COMPLETE MATERIAL DESCRIPTION, GALVANIZING AND OTHER PERTINENT INFORMATION.
4. FASTENER DETAILS ARE FOR ILLUSTRATIVE PURPOSE ONLY.

Yo, Hernan E. Lopez Baez Ingeniero licencia 18104 certifico que soy el profesional que confeccionó, diseñó y/o preparó estas planos y las especificaciones complementarias, también certifico que el diseño que Ustea planea y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas (en lo aplicable). Reconozco que cualquier modificación hecha a los mismos que se haya producido por desconocimiento o por negligencia de uso por relevo agentes o empleados, o por otras personas con el consentimiento, me hacen responsable de cualquier acción y daños ocasionados a la obra por la OCPR.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
SOIL PLATE FASTENERS DETAILS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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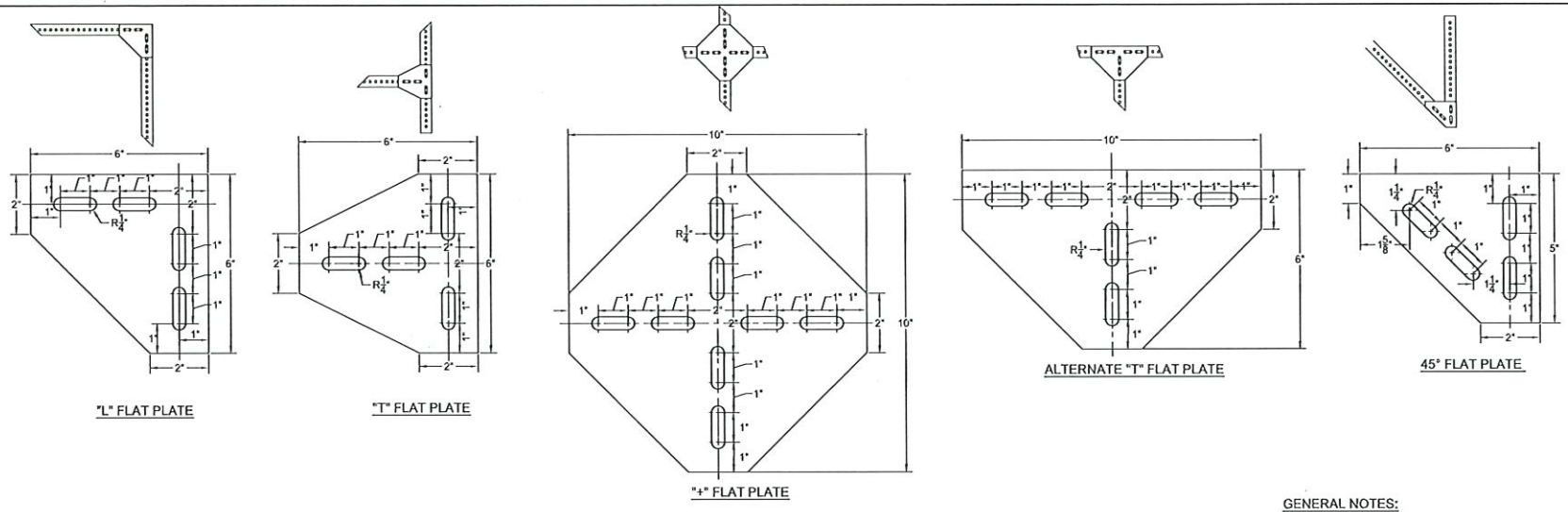
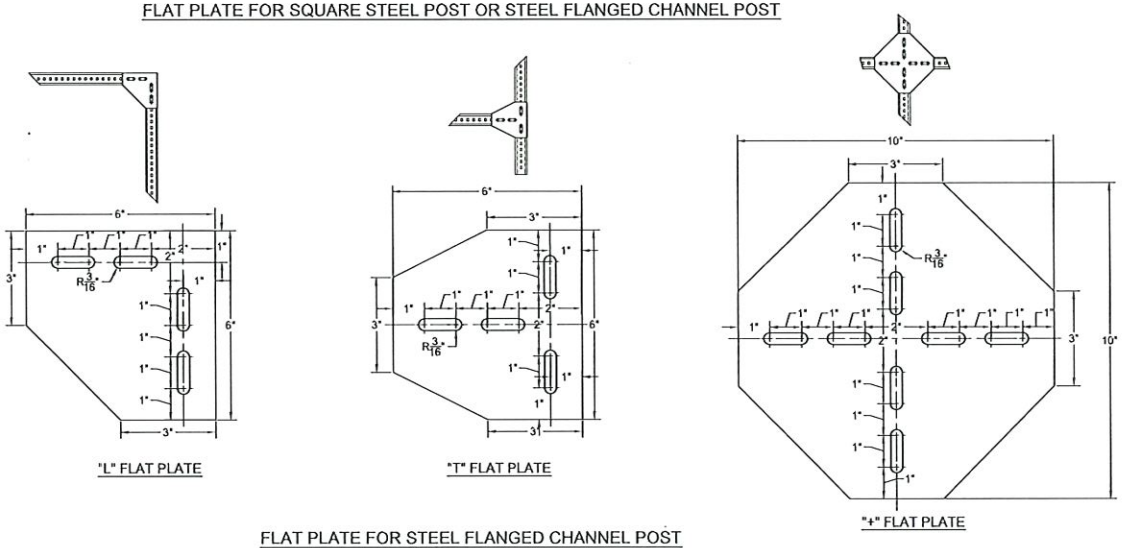


FLAT PLATE FOR SQUARE STEEL POST OR STEEL FLANGED CHANNEL POST



FLAT PLATE FOR STEEL FLANGED CHANNEL POST

GENERAL NOTES:

1. THE STEEL FLAT PLATE SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A570 GRADE 33 OR ASTM A36.
2. THE CONTRACTOR MAY USE ALUMINUM FLAT PLATE AS AN ALTERNATE. ALTERNATE FLAT PLATE SHALL CONFORM TO ASTM B-209, ALLOY 5052 H-32. THE CONTRACTOR SHALL DRILL NECESSARY HOLES TO COMPLETE INSTALLATION AS A SUBSIDIARY OBLIGATION.
3. AFTER ALL PUNCHING, DRILLING, STAMPING AND WELDING IS COMPLETE, THE STEEL FLAT PLATE SHALL BE ZINC-COATED BY THE HOT-DIP PROCESS ACCORDING TO AASHTO M111 (ASTM A123).
4. ALUMINUM OR STEEL FLAT PLATE THICKNESS SHALL BE 1/8".
5. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST AND STIFFENER CONNECTIONS AS A SUBSIDIARY OBLIGATION.
6. THE CONTRACTOR SHALL PLACE AT LEAST TWO 5/16" ALUMINUM FLAT HEAD MACHINE SCREWS WITH NUTS AND LOCK WASHER PER EACH POST.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
"L","T","+" AND"45" FLAT PLATES

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GENERAL NOTES APPLICABLE TO ALL SMALL TRAFFIC SIGNS STANDARD DRAWINGS

1. NO SPLICES IN SIGN PLATES SHALL BE PERMITTED WHEN SIGN DIMENSIONS ARE 1200 (4') X 1200 (4') MILLIMETERS OR LESS.

2. NO SPLICES IN THE REFLECTIVE SHEETING WILL BE PERMITTED WHEN THE SIGN HEIGHT IS 1200 MILLIMETERS (4') OR LESS. NO REFLECTIVE SHEETING SPLICES WILL BE PERMITTED IN DIAMOND SIGNS WITH DIMENSIONS OF 1200 MILLIMETERS (4') OR LESS. ON SIGNS WITH HEIGHTS IN EXCESS OF 1200 MILLIMETERS (4'), A SINGLE HORIZONTAL SPLICE WILL BE PERMITTED. THE SPLICE UPPER PANEL SHALL OVERLAP 3/8" MAX. THE LOWER PANEL.

3. SIGN PLATES SHALL CONFORM TO ASTM B-209, ALLOYS 5052 H-32, 5052 H-36, 5052 H-38, 5086 H-34, 5154 H-36 OR 6061 T-6.

4. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOS IN LENGTH.

5. THE SIGN BACKGROUND, LEGEND AND BORDER SHALL BE APPLIED BY THE SILK SCREEN PROCESS, BY DIRECT APPLICATION OF CUT OUT CHARACTERS, OR BY THE APPLICATION OF ELECTRONIC CUTTABLE FILM, SERIES 1170, AS MANUFACTURED BY 3M OR ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM, SERIES 4800, AS MANUFACTURED BY STIMSONITE. REGARDLESS OF THE METHOD OF FABRICATION, THE BACKGROUND, LEGEND AND BORDER SHALL MEET THE REFLECTIVITY STANDARDS OF ASTM D4956, TYPE III.

6. SIGN PLATES THICKNESS SHALL BE AS FOLLOWS:

MINIMUM PLATE THICKNESS IN (MM)	PLATE AREA SQF (SQM)
1/16" (1.5)	UP TO 10.8 (UP TO 1.00)
1/8" (3.175)	10.85 TO 53.8 (1.01 TO 5.00)

7. THE CONTRACTOR SHALL DRILL ALL ADDITIONAL HOLES, AS A SUBSIDIARY OBLIGATION, AS NECESSARY TO ACCOMMODATE MOUNTING REQUIREMENTS. THE HOLE DIAMETER SHALL NOT EXCEED 1/16" THE BOLT DIAMETER.

8. THE CONTRACTOR SHALL USE ON ALL BOLTS WHICH CONTACT THE REFLECTIVE SHEETING, A NYLON, NEOPRENE OR FIBER WASHER BETWEEN THE REFLECTIVE SHEETING SIGN FACE AND THE BOLT HEAD.

9. ALL BOLTS IDENTIFIED AS A307 SHALL CONFORM WITH ASTM A307 REQUIREMENTS AND BE PROVIDED WITH CORRESPONDING NUT AND WASHER. BOLTS A307 SHALL BE EITHER GRADE A OR B AND SHALL BE HOT-DIP GALVANIZED. UNLESS OTHERWISE SPECIFIED, BOLT HEAD MAY BE EITHER HEX OR CARRIAGE.

10. REFLECTIVE SHEETING FROM DIFFERENT MANUFACTURERS SHALL NOT BE MIXED WITHIN THE SAME SIGN PANEL. SIGN PANELS FABRICATED WITH REFLECTIVE SHEETING FROM DIFFERENT MANUFACTURERS SHALL NOT BE MIXED WITHIN THE SAME SIGN SUPPORT.

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LIC. 18 SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
GENERAL NOTES

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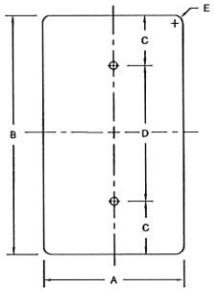
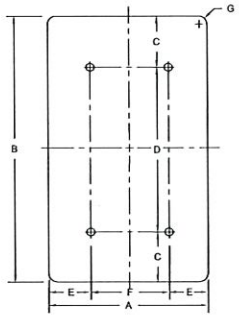


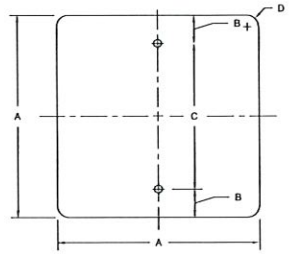
VERTICAL RECTANGLE

A	B	C	D	E
300	450	35	380	35
450	600	75	450	35
600	750	75	600	35
750	900	75	750	45



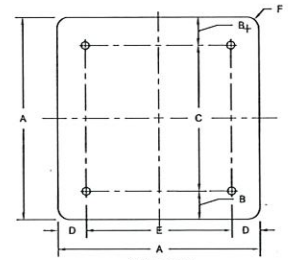
VERTICAL RECTANGLE

A	B	C	D	E	F	G
900	1200	150	900	150	600	55
1200	1500	150	1200	225	750	75



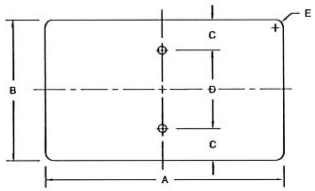
SQUARE

A	B	C	D
450	75	300	35
600	75	450	35
750	75	600	45



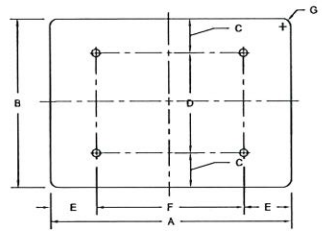
SQUARE

A	B	C	D	E	F
900	150	600	150	600	55
1200	150	900	225	750	75



HORIZONTAL RECTANGLE

A	B	C	D	E
525	375	35	305	35
600	300	70	230	35
600	450	75	300	35
750	375	70	305	35
750	600	75	450	35
900	300	70	230	35



HORIZONTAL RECTANGLE

A	B	C	D	E	F	G
900	600	75	450	150	600	35
1200	600	75	450	225	750	45
1200	900	150	600	225	750	55
1500	600	75	450	300	900	35
1500	900	300	600	600	900	55

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
BLANK PLATE STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
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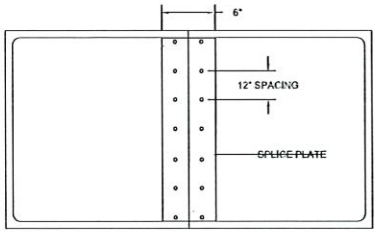

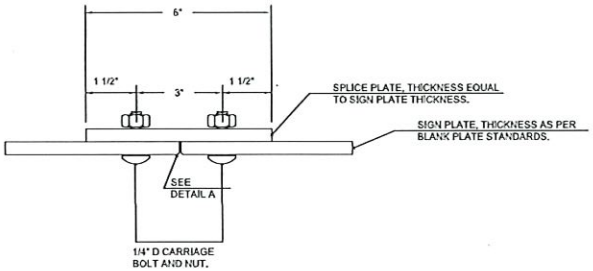

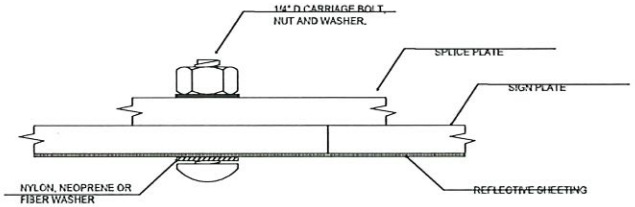

DETAIL A

GENERAL NOTES:

1. NO SPLICES IN SIGN PLATES SHALL BE PERMITTED WHEN SIGN DIMENSIONS ARE 1200 (4) X 1200 (4) OR LESS.

2. THE CONTRACTOR SHALL ADJUST THE LENGTH OF CARRIAGE BOLT. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.

SIGN PLATE SPLICES

Yo, Hernan E. Lopez Baez Ingeniero licencia 18341, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que el diseño que aparece en los planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Asumiendo que cualquier desviación total o fraccionaria de los trabajos que se vaya producir por desconocimiento o por negligencia al no ser por mi o mis agentes o empleados, o por otros personas con mi conocimiento, me hacen responsable de cualquier auditor jurídico y/o judicial a la parte de OCPR.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
SIGN PANEL SPLICES

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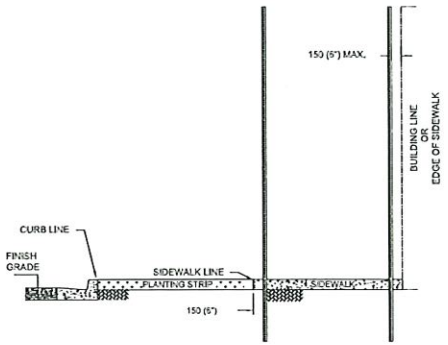
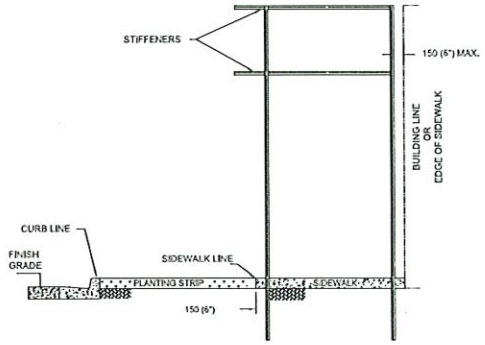
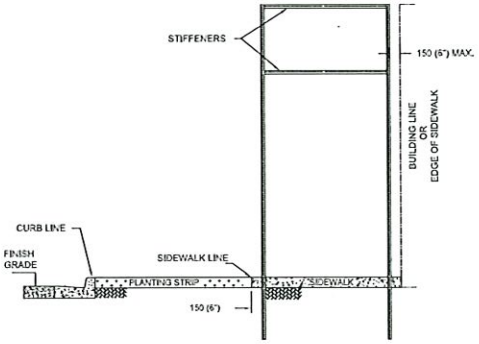
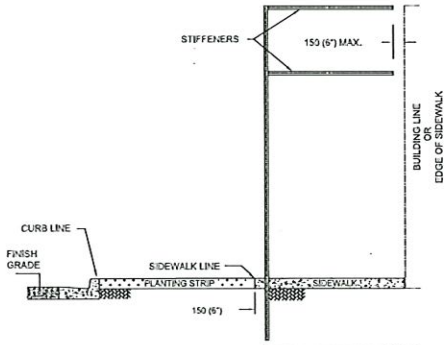






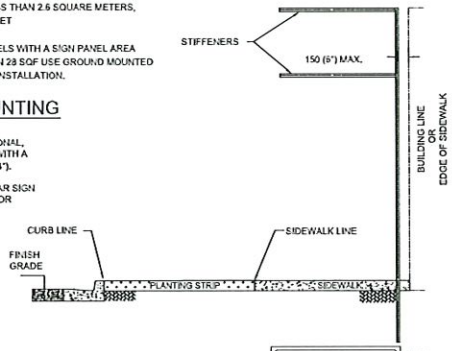
H SUPPORT MOUNTING

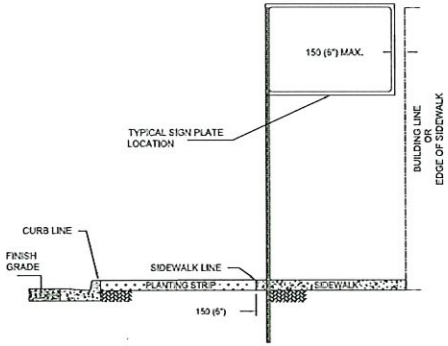
1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.6 SQUARE METERS, 28 SQUARE FEET
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQF USE GROUND MOUNTED BREAK-AWAY INSTALLATION.



CANTILEVER SUPPORT MOUNTING

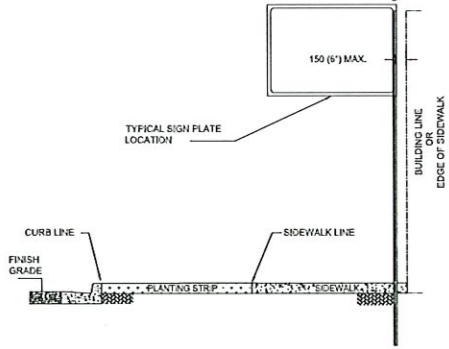
1. FOR SQUARE, RECTANGULAR, PENTAGONAL, OCTAGONAL, DIAMOND AND EQUILATERAL TRIANGLE SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH GREATER THAN 600 (24").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").





SINGLE SUPPORT MOUNTING

1. FOR SQUARE AND RECTANGULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").
2. FOR ISOSCELES TRIANGLE SIGN PANEL USE SINGLE SUPPORT MOUNTING.



GENERAL NOTES:

1. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2,130 (7'-0") TO 2,300 (7'-6") FROM SIDEWALK GRADE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. THE FOUNDATIONS SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS STANDARD DRAWING. TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS STANDARD DRAWING.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
5. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOS IN LENGTH.
6. THE MAXIMUM AREA PERMITTED FOR SINGLE AND CANTILEVER SUPPORT MOUNTING SHALL BE 6 SQUARE FEET.
7. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
8. MINIMUM OFFSET FROM CURB LINE TO SIGN PANEL SHALL BE 600 (24") MIN.
9. THE CONTRACTOR SHALL LOCATE POST AND STIFFENERS AS PER TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS.

Yo, Hernan E. Lopez Baez Ingeniero licencia 18104, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos dibujos y las especificaciones complementarias. También certifico que en lo que dichos dibujos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Asumiendo que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia que surgen del dibujo aprobado o emplazado, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y/o multa que la OGPe.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5

STEEL POST - STEEL FLANGED CHANNEL
MOUNTING ON SIDEWALK AND PLANTING AREAS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
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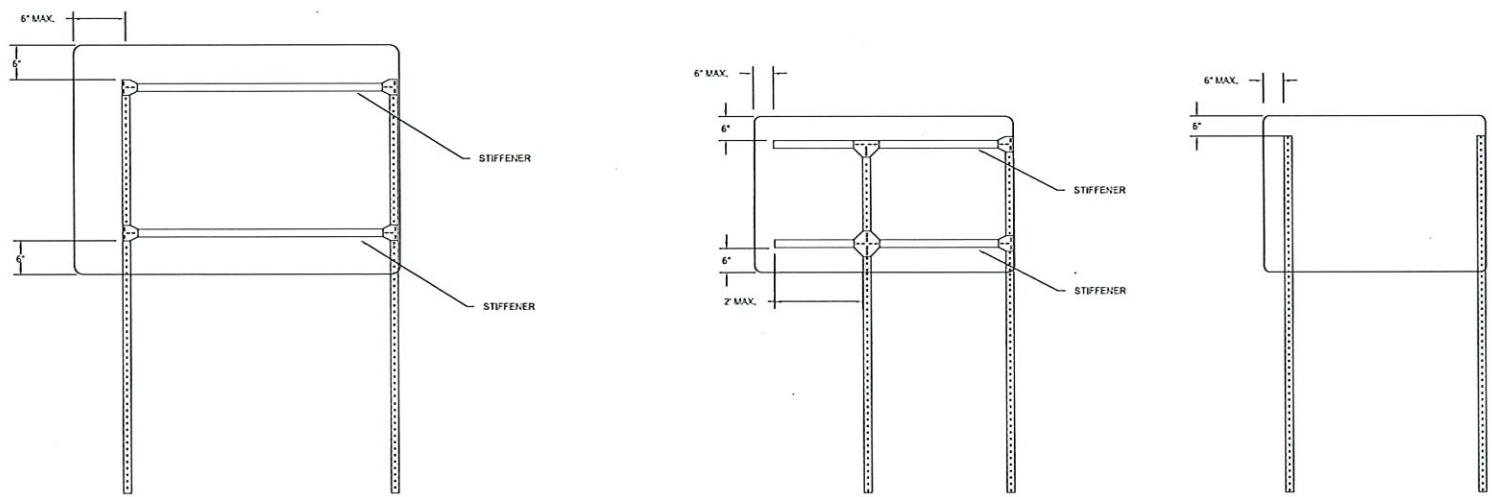
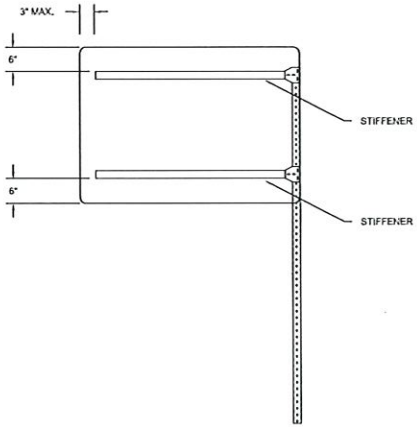


TYPICAL POST LOCATION FOR H SUPPORT MOUNTING



TYPICAL POST LOCATION FOR CANTILEVER SUPPORT MOUNTING

GENERAL NOTES:

1. TO DETERMINE THE APPLICATION FOR CANTILEVER OR SUPPORT MOUNTING SEE MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS.

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18104, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OCPs.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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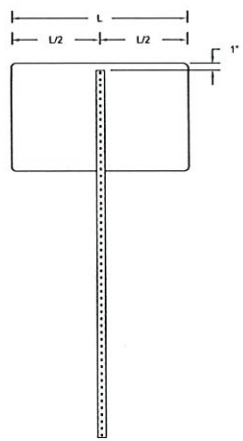
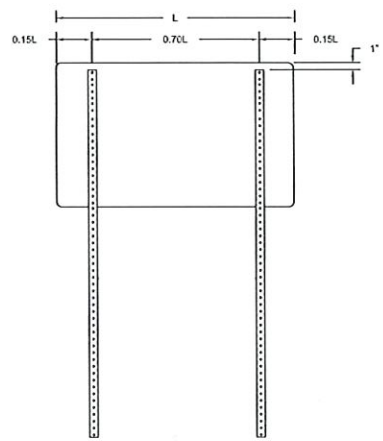


1 POST



2 POSTS

NOTE:

1. TO DETERMINE THE NUMBER OF POSTS, SEE NOTES ON STEEL FLANGED CHANNEL AND SQUARE STEEL POST..
2. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
3. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
4. MAXIMUM DEVIATION FROM VERTICAL FOR ANY COMPONENT, IN ANY DIRECTION, SHALL BE 1/8 INCH PER FOOT.
5. MAXIMUM DEVIATION FROM HORIZONTAL FOR ANY COMPONENT, IN ANY DIRECTION, SHALL BE 1/8 INCH PER FOOT.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - TYPICAL POST LOCATION
FOR MOUNTING STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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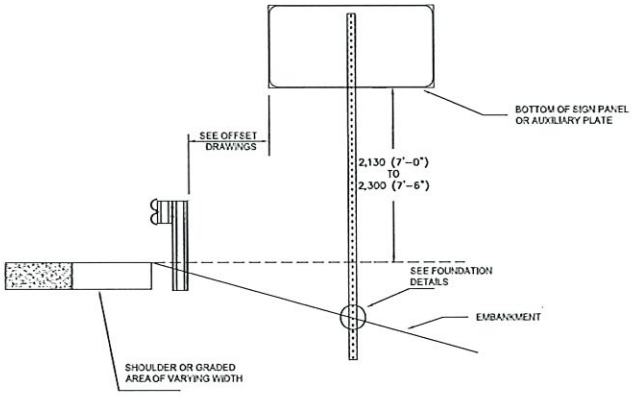
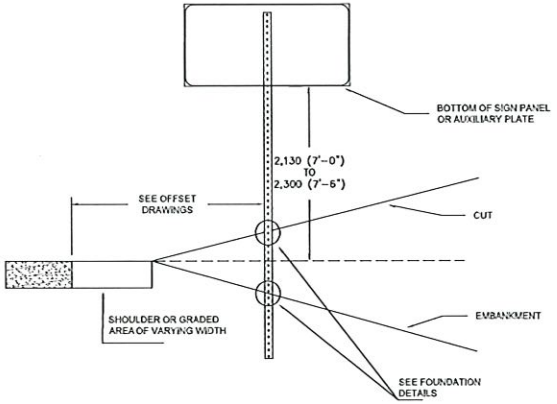
GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCREASING OR DECREASING THE LENGTH OF POST TO ACHIEVE THE MOUNTING HEIGHT ABOVE FINISH GRADE OF THE NEAREST LANE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. FOUNDATION SHALL BE AS STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS STANDARD DRAWINGS.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENER CONNECTION.
5. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOS IN LENGTH.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NUMBER OF POSTS BASED UPON THE SIGN PANEL AREA, IN CONFORMANCE WITH THE FOLLOWING TABULATION:

NUMBER OF POSTS	MAXIMUM SIGN AREA (SQUARE FEET)	MAXIMUM SIGN AREA (SQUARE METER)
1	4	0.37
2	16	1.50
3	25	2.32
4	36	3.35

7. THE CONTRACTOR SHALL LOCATE POSTS AS PER TYPICAL POST LOCATION STANDARD DRAWING.
8. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2,130 (7'-0") TO 2,300 (7'-6") FROM THE FINISH GRADE OF THE NEAREST LANE.





Yo, Hernan E. Lopez Baez, Ingeniero licencia 18104, certifico que soy el profesional que confeccionó, diseño y/o preparó estos planos y las especificaciones complementarias. También certifico que se tiende que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de los Agencias Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí o de agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OCPs.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - TYPICAL POST LOCATION
FOR GRASS MOUNTING STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
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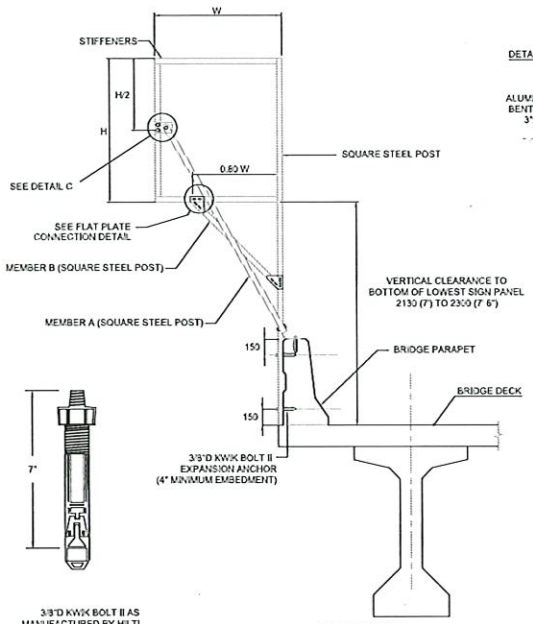
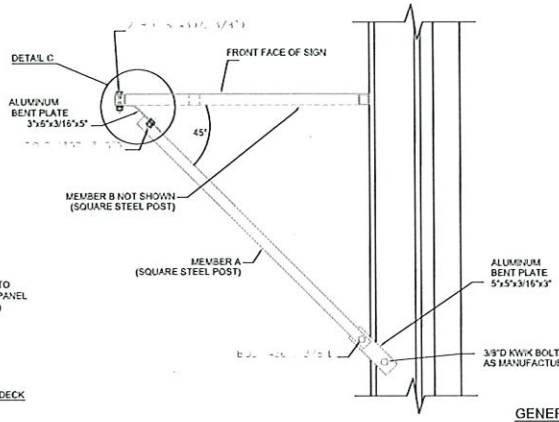


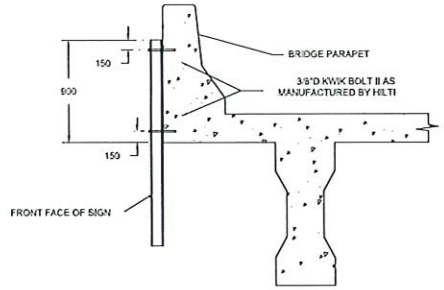
ELEVATION

3/8"D KWIK BOLT II AS MANUFACTURED BY HILTI

ANCHOR



PLAN



OVERHEAD MOUNTING

USE ONE STEEL FLANGED CHANNEL POST OR ONE SQUARE STEEL POST FOR SIGNS W12-2 600 (2') X 600 (2'), 750 (2'-6") X 750 (2'-6"), AND 900 (3') X 900 (3').

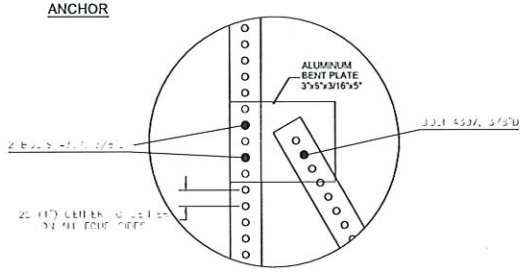
USE TWO STEEL FLANGED CHANNEL POST OR TWO SQUARE STEEL POST FOR SIGNS W12-2 1200 (4') X 1200 (4') AND 1500 (5') X 1500 (5') OR GREATER, OR ANY OTHER SIGNS INDICATED IN THE CONSTRUCTION PLANS.

GENERAL NOTES:

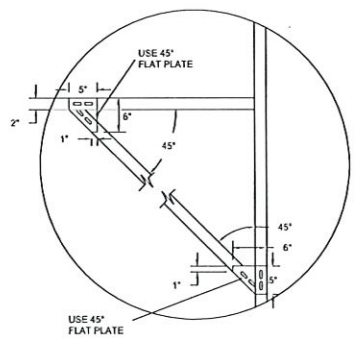
1. FOR CANTILEVER SUPPORT MOUNTING ONLY SQUARE STEEL POST SHALL BE USED.
2. CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF ANCHORS MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: FULL DESCRIPTION AND DRAWINGS OF THE ANCHOR INCLUDING DIMENSION OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION, GALVANIZING AND OTHER PERTINENT INFORMATION.

   KWIK BOLT SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, TYPE III FE/ZN 5.
3. THE CONTRACTOR SHALL FOLLOW HILTI INSTRUCTIONS FOR 3/8" KWIK BOLT II INSTALLATION.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION AS A SUBSIDIARY OBLIGATION.
5. ALL POSTS SHALL BE CONTINUOS IN LENGTH.
6. FOR OVERHEAD MOUNTING, THE SIGN SHALL BE INSTALLED WITHOUT REDUCTION IN THE EXISTING BRIDGE CLEARANCE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST THE LENGTH OF STIFFENERS ACCORDING TO THE PANEL SHAPE.
8. THE CONTRACTOR SHALL USE THREE VANDAL RESISTANT FASTENERS TO ATTACH THE SIGN PANEL TO EACH STIFFENER. THE FASTENERS
9. SHALL BE LOCATED ONE IN EACH EXTREME AND ONE IN THE CENTER OF STIFFENER.

   THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT TO PENETRATE THE ENTIRE THICKNESS OF THE NUT.
10. ALL ALUMINUM BENT PLATES SHALL CONFORM TO ASTM B-209, ALLOYS 5052 H-32, 5052 H-36,
11. 5052 H-38, 5086 H-34, 5154 H-36 OR 6061 T-6.



DETAIL C



FLAT PLATE CONNECTION DETAIL

CANTILEVER SUPPORT MOUNTING

1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 18 SQUARE FEET AND WIDTH EQUAL OR LESS THAN 1,200 (48").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").

Yo, Hernan E. Lopez Baez Ingeniero licencia 18164, certifico que soy el profesional que confeccionó, diseñó y preparó estas láminas y las especificaciones complementarias. También certifico que he hecho que dichas especificaciones cumplan con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de las Reglamentos y Códigos de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Generadoras Peritas con Jurisdicción. Asumimos la cualquier responsabilidad total y limitadora de los hechos que se hayan producido por desconocimiento o por negligencia ya sea por mí o de agentes o empleados, o por otras personas con mi consentimiento, no hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - TYPICAL POST LOCATION FOR MOUNTING STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
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