



Asbestos Inspection Report

Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz

Prepared for:

Puerto Rico Highway and Transportation Authority
Centro Gubernamental Roberto Sánchez Vilella
PO Box 42007, San Juan, P.R. 00940-2007

A handwritten signature in blue ink that reads "Norma I. Torres".

Inspector: Norma I. Torres
Asb. PREQB I.D. # ASB-0319-0160-SI

Survey Dates: March 19 and 20, 2019

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EXECUTIVE SUMMARY

The Puerto Rico Highway & Transportation Authority (PRHTA), as part of their project “Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz”, requested an Asbestos-containing material (ACM) survey. Refer to Attachment 1.0 for the Location maps. The project’s scope of work included the following road’s segments:

Road ID	Kilometer	City
PR-359	km 0.0 a 0.24	Yauco
PR-128	km 0.0 to 58.90	Yauco
PR-535	km 0.0 to 6.9	Juana Díaz
PR-551	km 0.0 to 3.75	Juana Díaz
PR-132	km 0.0 to 25.50	Guayanilla/Peñuelas/Ponce
PR-552	km 0.0 to 3.5	Juana Díaz
PR-149	km 12.80 to 72.30	Ciales/Orocovis/Villalba/Juana Díaz

The assessment was conducted by Nortol Environmental & Occupational Safety, Inc., under agreement with Integra Design Group (IDG) as PRHTA representative. The field work was executed within March 19 and 20, 2019 in coordination with Ms. Luz M. Rodríguez from IDG.

At the time of this survey, suspect asbestos-containing materials (ACM) were not identified within the scope of the project. See Attachment 2.0 for the PGC-009 (no asbestos presence certification) related to this project.



I. INTRODUCTION

A. Asbestos background

Asbestos is a known human carcinogen. Health effects of asbestos exposure include lung cancer, asbestosis, mesothelioma and other cancers. Cigarette smoking and asbestos exposure can have a combined effect which puts the exposed person at a risk 50-90 times that of a non-exposed person of contracting lung cancer. The presence of asbestos material does not in itself constitute a danger. However, it is hazardous when disturbed without proper controls or damaged. Activities which give rise to airborne dust, e.g. breaking, sawing, cutting, drilling etc. are most likely to present risks.

B. Survey Purpose and Scope

The purpose of this survey was to determine if Asbestos-Containing Materials (ACM) are present in the PRHTA "*ACT-Signing and Guardrails*" project located in segments from various PR roads. The scope of work for this project consisted of the following tasks:

- ✓ Review the information for proposal as provided by the client;
- ✓ Coordinate field work with the client's representative;
- ✓ Achieve inventory of suspect asbestos materials (if any);
- ✓ Report findings.

II. REGULATORY REVIEW

According to NESHAP's standards (40 CFR 61.141), Asbestos Containing Building Materials are classified into three categories: Category I - Nonfriable asbestos-containing material (ACM), Category II – other Nonfriable ACM, and Regulated asbestos-containing material (RACM).

According to EPA-AHERA/ASHARA's standards (40 CFR Part 763), ACM's are classified into three categories: Surfacing material, Thermal System Insulation (TSI) and Miscellaneous material.

Once the inspector has identified the ACM in a building, he or she must perform a physical assessment of TSI and friable material. Under § 763.88 of the AHERA Rule, the physical assessment of ACBM involve classifying the material into one of the following seven Categories: Damaged or significantly damaged TSI ACM; Damaged friable surfacing ACM; Significantly damaged friable surfacing ACM; Damaged or significantly damaged friable miscellaneous ACM; ACBM with potential for damage; ACBM with potential for significant damage; and Any remaining friable ACBM or friable suspected ACBM.



The PR Environmental Quality Board (Regulation for the Control of Atmospheric Pollution-Rule 422) enacted in 1996, required all commercial and public building, including industries to identify asbestos containing building materials in their structures and take appropriate actions to control the release of asbestos fiber. Asbestos inspection is part of the permitting application process for any future project in the buildings which may include renovation or demolition activities regulated by the PR State/Municipal Offices. To obtain demolition permits in Puerto Rico is necessary to include a certification (OGP-PGC-009 or equivalent) stating that there is not asbestos containing material in the project. See Attachment 2.0 for the PGC-009 related to this project.

III. SURVEY DESIGN & METHODOLOGY

Inspection scope and schedule was coordinated with Luz M. Rodríguez from Integra Design Group as PRHTA representative to be conducted within specific days/hours.

The applicable guardrail's in the project scope areas were inspected for ACM. The survey was performed following applicable current regulations leading accredited inspections in Puerto Rico. It involved a visual walk-through inspection of the accessible areas of the project to develop an inventory of suspect ACM homogeneous materials.

When suspect ACM are present, samples of the homogeneous accessible materials are collected in quantities enough to determine asbestos content, and then placed in airtight bags. The bagged samples shall be properly collected, labeled, and identified. A Chain of Custody form shall be completed for collected bulk samples which are analyzed by an independent laboratory using the Polarized Light Microscopy (PLM) method. The laboratory utilizes dispersion staining techniques according to US EPA method 600/M4-82-020 incorporating visual estimates of identified material percentages.

IV. ASBESTOS SURVEY RESULTS

Suspect asbestos-containing materials were not found in the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz", project's scope of work. Representative pictures are included as Attachment 3.0.



V. CONCLUSION AND LIMITATIONS

Suspect asbestos-containing materials were not found in the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz"; project's scope of work.

The results, findings, and conclusions expressed in this report are based only on conditions that were noted during the Nortol's assessment of the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz"; project's scope of work within March 19 and 20, 2019.

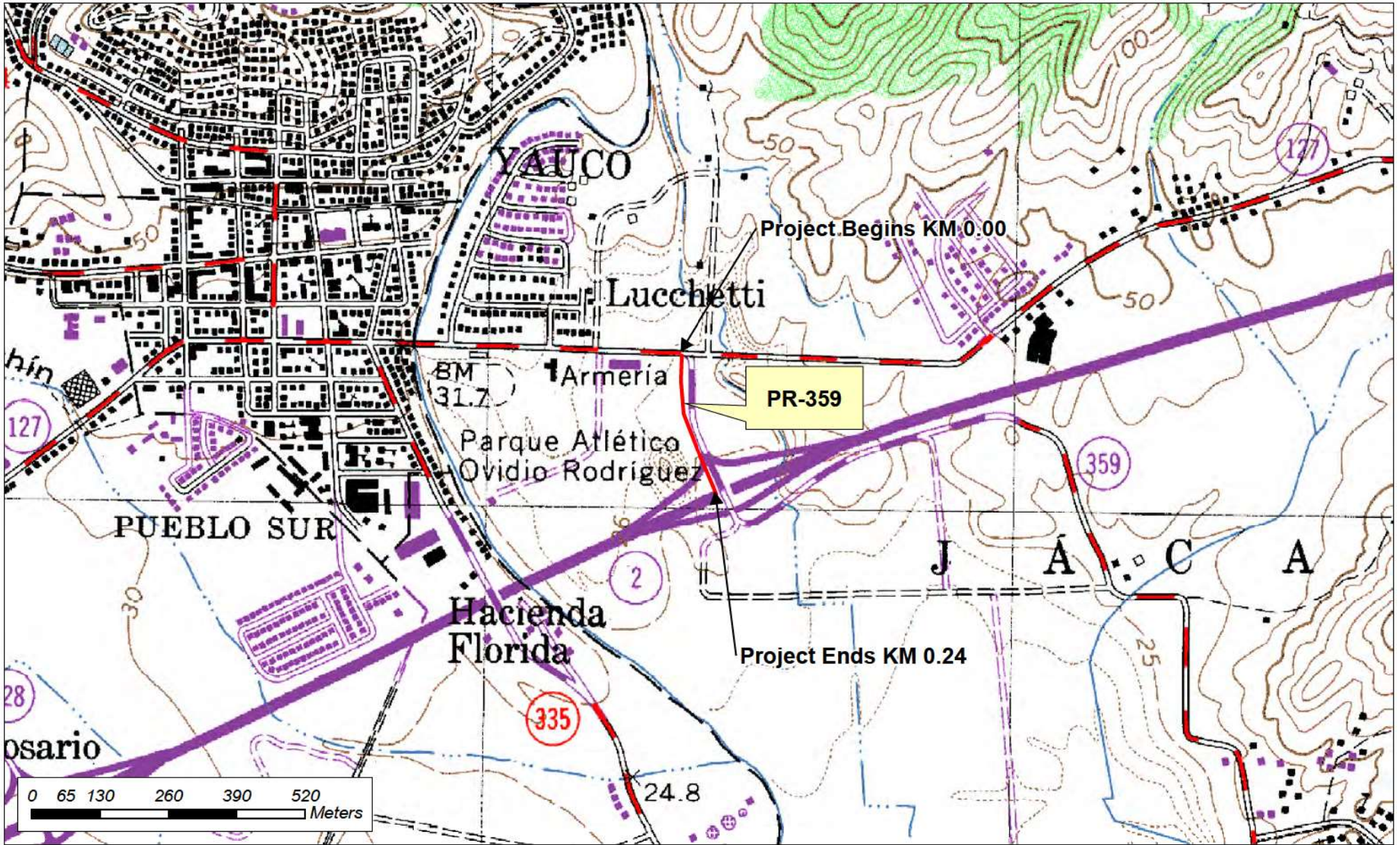
Any conditions or materials that could not be visually identified on the surface were not inspected and may differ from those conditions or materials noted. It was not within the scope of the inspection to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Nortol's selection of assessment locations and frequency of assessments was based on Nortol's observations and the assumption that like components in the same area are homogeneous. The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating asbestos.

See Attachment 4.0 for inspector's certifications.



ATTACHMENT 1.0
LOCATION MAPS
ASBESTOS WAS NOT FOUND





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-359, FROM KM 0.00 TO 0.24 YAUCO, PR

ID: OPE-F-24-B FRAME LETTER

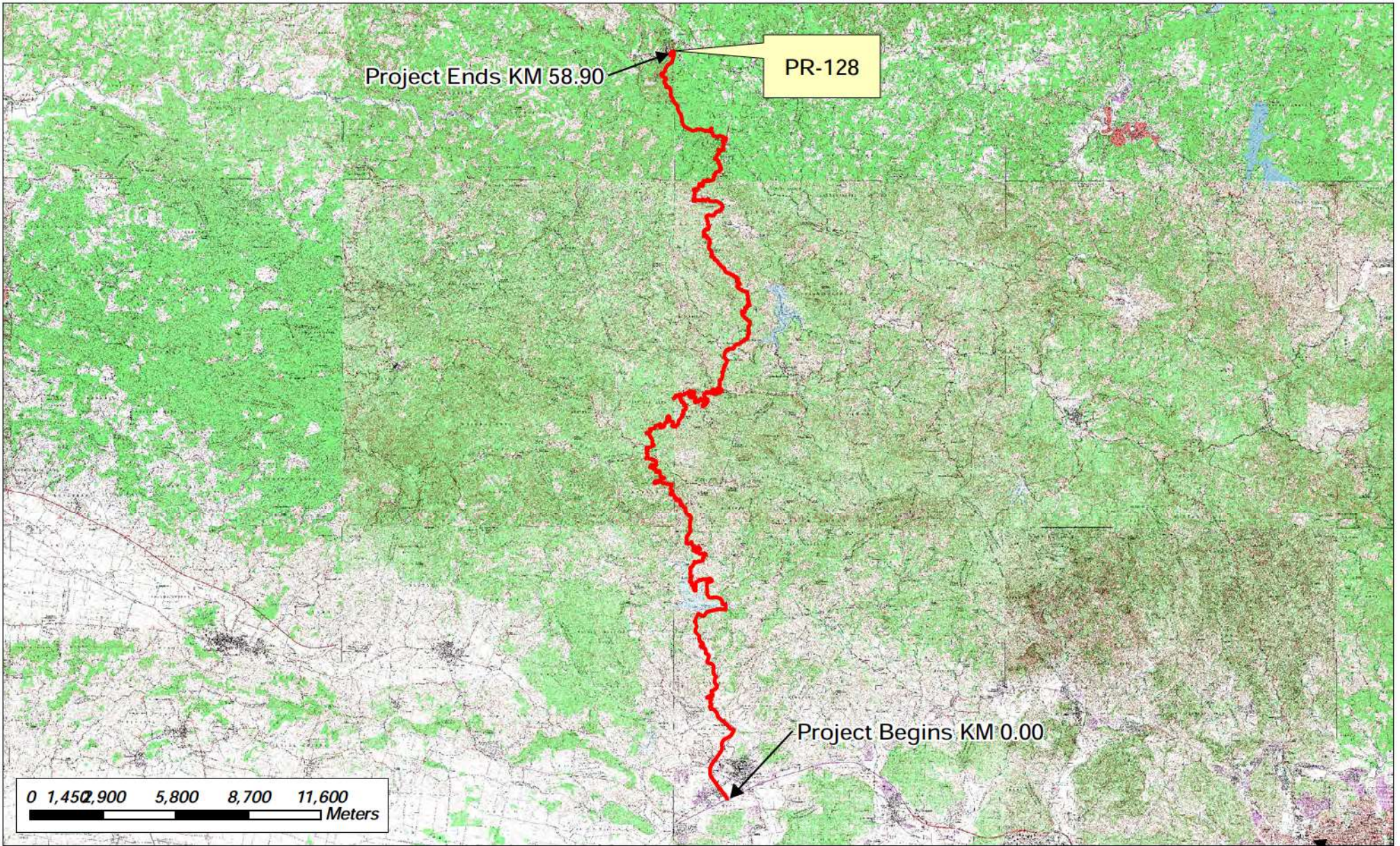
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 INTEGRA DESIGN GROUP PSC
 (787) 767 2111 www.integrapr.com

Location Map

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SHEET INFORMATION	
DATE SUBMITTED: 2/3/2020	PROJECT NO. 100-1924.0
SCALE: 1:10,000	DESCRIPTION FIGURE





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-128, FROM KM 0.00 TO 58.90 LARES, MARICAO & YAUCO, PR

ID: OPE-F-24-B FRAME LETTER



Location Map

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SHEET INFORMATION	
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SCALE: 1:210,000	DESCRIPTION FIGURE





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-535, FROM KM 0.00 TO 6.50 JUANA DIAZ, PR

ID: OPE-F-24-B FRAME LETTER

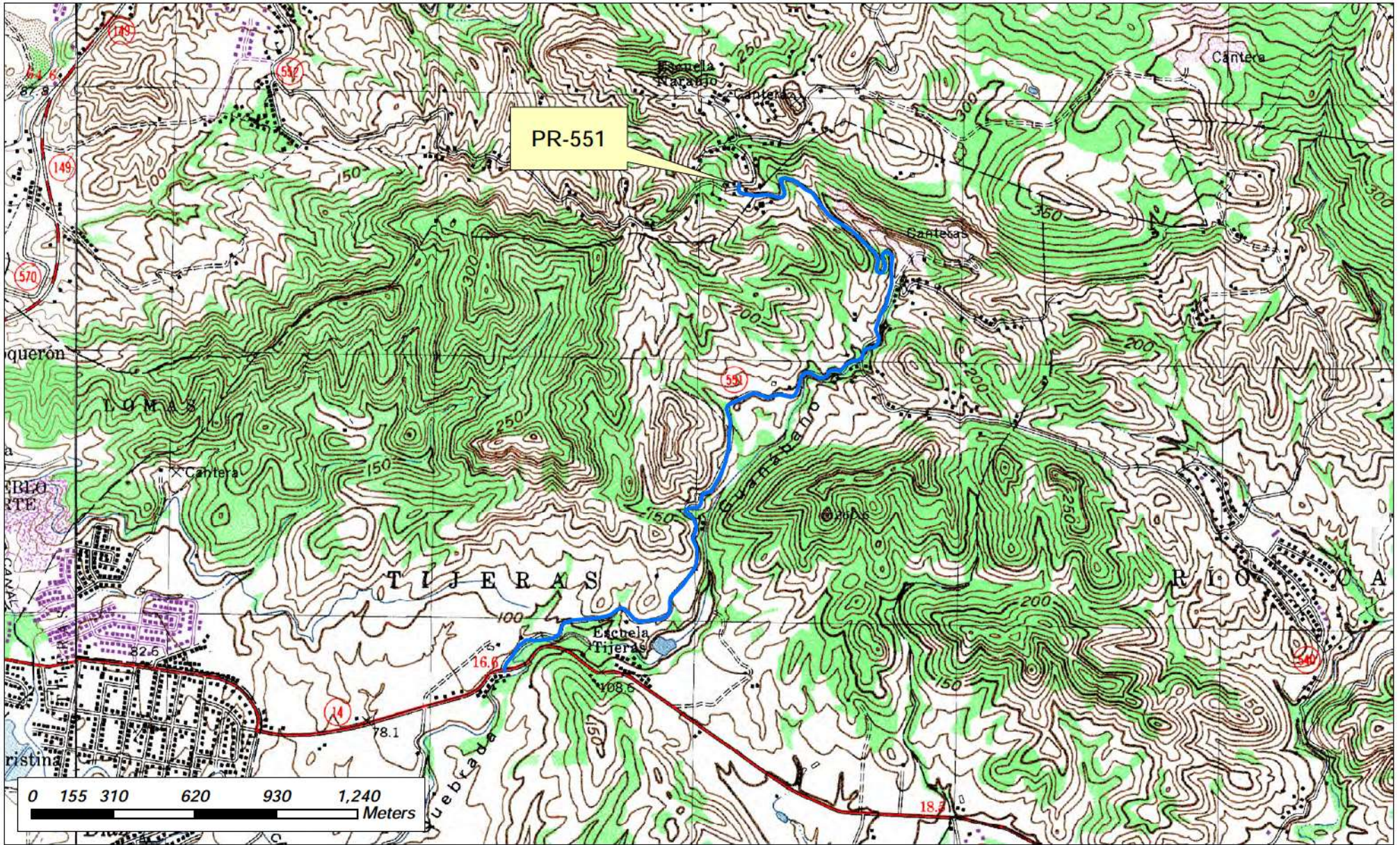
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SCALE: 1:50,000	DESCRIPTION FIGURE





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-551, JUANA DIAZ, PR

ID: OPE-F-24-B FRAME LETTER

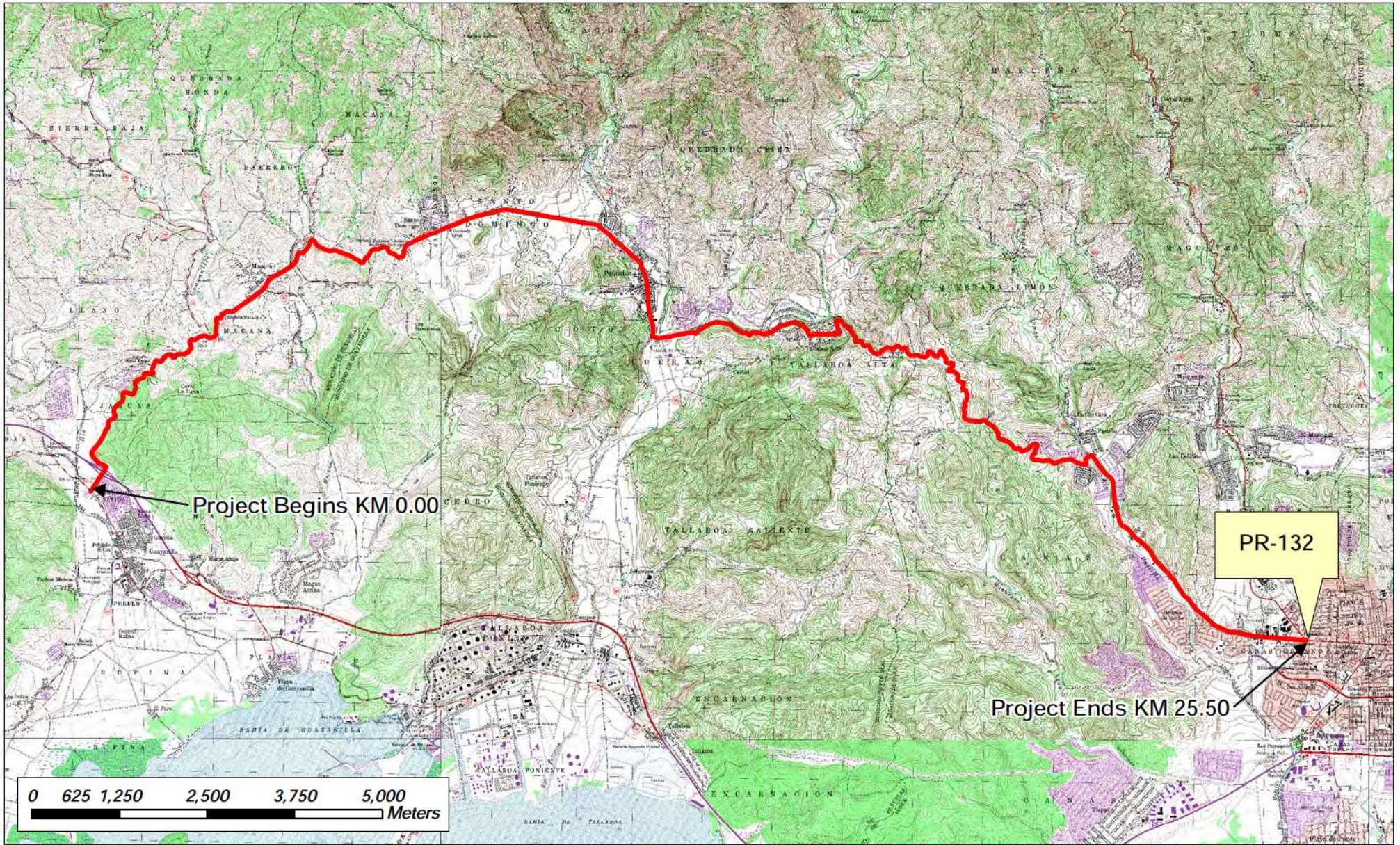
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SCALE: 1:20,000	DESCRIPTION FIGURE





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-132 FROM KM 0.00 TO KM 25.50 GUAYANILLA, PENUELAS & PONCE, PR

ID: OPE-F-24-B FRAME LETTER

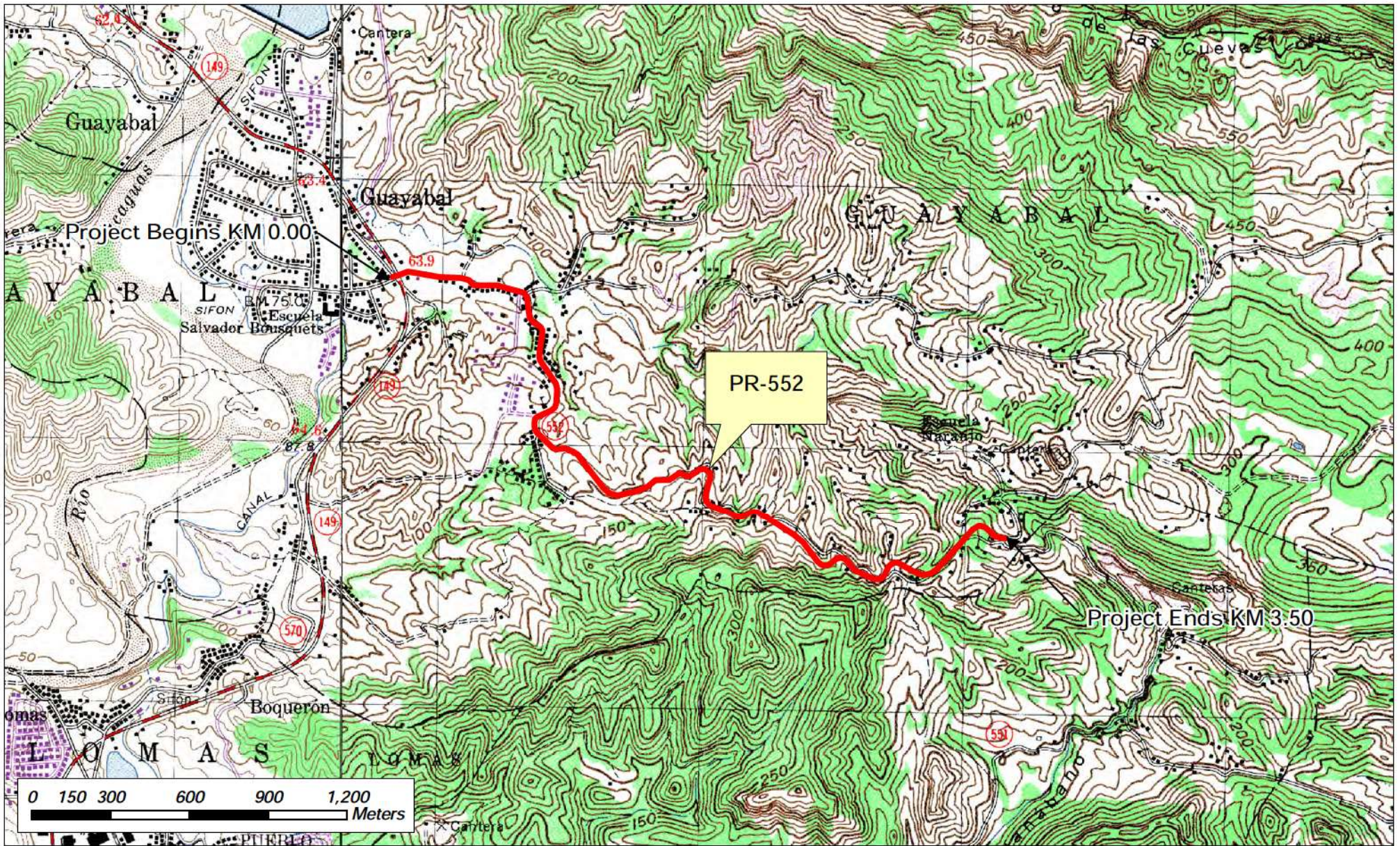
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SCALE: 1:75,000	DESCRIPTION FIGURE





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-552 FROM KM 0.00 TO 3.50 JUANA DIAZ, PR

ID: OPE-F-24-B FRAME LETTER

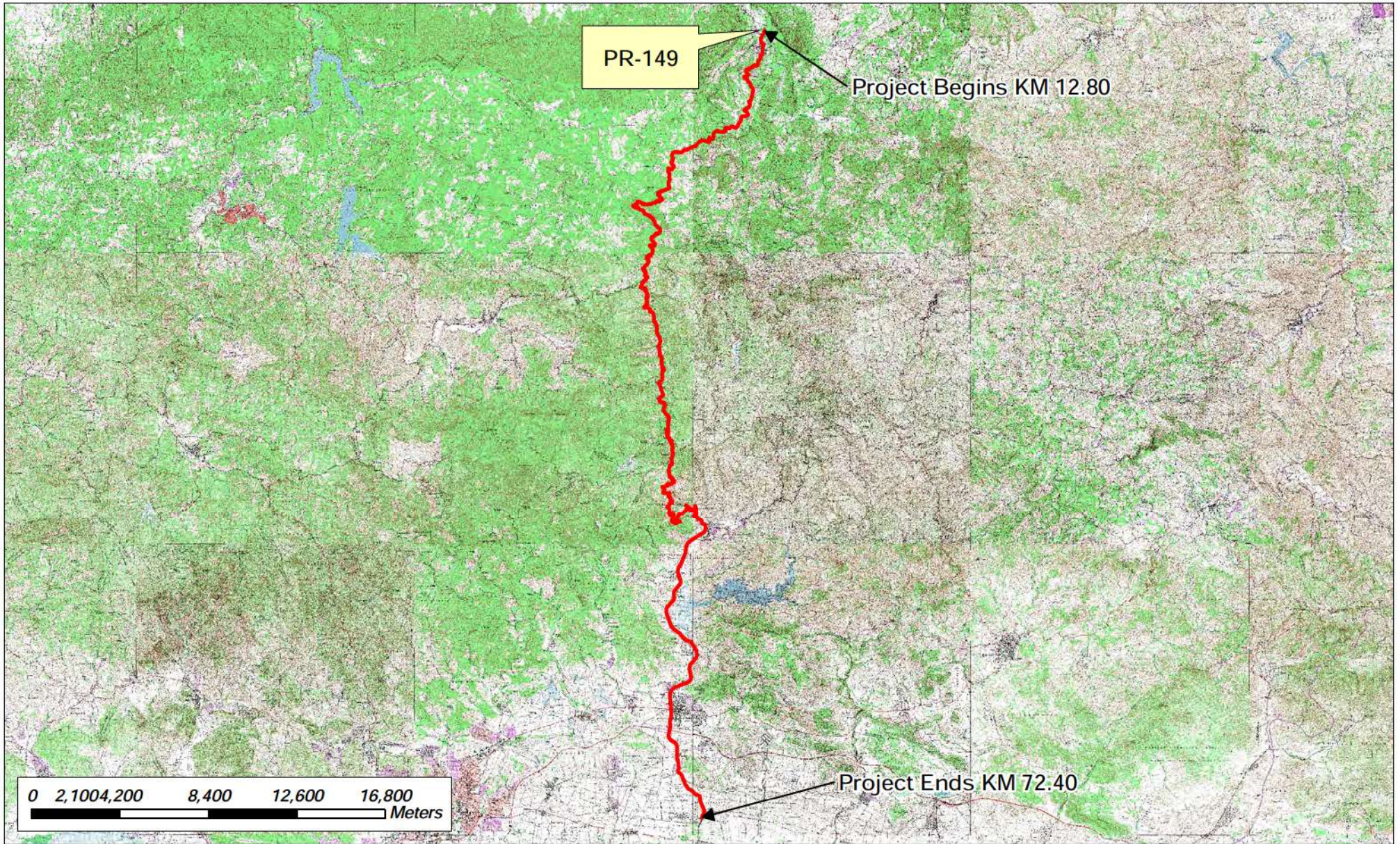
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Location Map

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SCALE: 1:20,000	DESCRIPTION FIGURE





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-149 FROM KM 12.80 TO KM 72.40 CIALES, VLLALBA, OROCOVIS & JUANA DIAZ, PR

ID: OPE-F-24-B FRAME LETTER

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Location Map

SHEET INFORMATION	
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SCALE: 1:250,000	DESCRIPTION FIGURE



ATTACHMENT 2.0

PGC-009 CERTIFICATION (NO PRESENCE OF ASBESTOS)





**CERTIFICACION DE NO PRESENCIA DE ASBESTO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

PGC- _____
PARA USO OFICIAL

Yo, Norma I. Torres Lebrón, mayor de edad, soltera, y vecina de San Juan, Puerto Rico
(Nombre) (Estado Civil) (Municipio)

Dirección Postal P.O. Box 366457, San Juan P.R. 00936-6457
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 761-5527 Oficina (787) 420-0220
Fax (787) 293-5774

Certifico que:

1. La estructura "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project" localizada en segmentos identificados de las carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz, P.R., la cual será objeto de una demolición se encuentra libre de asbesto.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en San Juan de Puerto Rico,
(Municipio)
hoy día 22 de noviembre de 2019.


Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)







Nota: Ingenieros o Arquitectos deberán someter evidencia de que se encuentra al día en el pago de sus cuotas de colegiación e Inspectores de Asbesto deberán someter evidencia de la tarjeta de registro provista por la JCA.




ATTACHMENT 3.0

REPRESENTATIVE PICTURES



Road ID	Location	Length(m)	Representative Pictures	Comment
PR-359	Yauco	km 0.5 to 1.05		Suspect asbestos containing materials are not present within the scope of work.
PR-128	Yauco	km 0.0 to 58.90		Suspect asbestos containing materials are not present within the scope of work.
PR-535	Juana Díaz	km 0.0 to 6.9		Suspect asbestos containing materials are not present within the scope of work.
PR-551	Juana Díaz	km 0.0 to 3.75		Suspect asbestos containing materials are not present within the scope of work.



Road ID	Location	Length(km)	Representative Pictures	Comment
PR-132	Guayanilla/ Peñuelas/ Ponce	km 0.0 to 25.50		Suspect asbestos containing materials are not present within the scope of work.
PR-552	Juana Díaz	km 0.0 to 3.5		Suspect asbestos containing materials are not present within the scope of work.
PR-149	Ciales/ Orocovis/ Villalba/ Juana Díaz	km 12.80 to 72.30		Suspect asbestos containing materials are not present within the scope of work.



ATTACHMENT 4.0
ASBESTOS INSPECTOR'S
QUALIFICATION





PR Environmental Quality Board
Asbestos Inspector Accreditation



ASBESTOS

Inspection Report

For

PROJECT AC-808541

Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements
PR-512- Kms 0.0 - 4.5 Juana Díaz

Prepared for:

Puerto Rico Highway and Transportation Authority
Centro Gubernamental Roberto Sánchez Vilella
PO Box 42007, San Juan, P.R. 00940-2007

Inspectors:

A handwritten signature in blue ink, appearing to be "Angel A. Burgos".

Angel A. Burgos - Asb. PREQB I.D. # ASB-0319-0191-SI

A handwritten signature in blue ink, appearing to be "Eduardo Colón".

Eduardo Colón - Asb. PREQB I.D. # ASB-0919-0595-SI

A handwritten signature in blue ink, appearing to be "Emanuel Ortíz".

Emanuel Ortíz - Asb. PREQB I.D. # ASB-0519-0286-SI

Survey Date: November 22, 2019

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I. INTRODUCTION

As part of the environmental due diligence for demolition and repair, an Asbestos a survey was done at the project "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements, PR-512 (kms 0.0 – 4.50) Project AC-808541. See Attachment 1.0 for location map and figures. The field activities were achieved by Nortol Environmental & Occupational Safety, Inc. on November 22, 2019 in coordination with Integra Design Group as representatives from the Puerto Rico Highway and Transportation Authority (PRHTA).

Suspect asbestos-containing materials were not found. Previous asbestos survey information was not made available for this project. The scope of work under contract included the following tasks within referenced project:

- Inspection, sampling (if apply) and assessment of suspected Asbestos Containing Materials.
- Determine the overall composition of the collected samples (if any) by means of Polarized Light Microscopy (PLM) analysis.
- Prepare this Inspection Report with findings and suggestions.

II. SUMMARY OF FINDINGS

Existing materials at the subject project such as concrete or asphalt components and metal rails were considered as non-suspect to asbestos. See Attachment 2.0 for representative pictures.

III. ASBESTOS SURVEY REPORT

A. Asbestos-Containing Findings:

Suspect asbestos-containing materials were not found in the "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements, PR-512 (kms 0.0 – 4.50) Project AC-808541. See Attachment 3.0 for the PGC-009 (no asbestos presence certification) for these road's guardrails.

B. Survey Protocol:

This activity was conducted following the latest protocol for assessing materials suspected of containing asbestos as defined by the U.S. Environmental Protection Agency (EPA). It



involved a visual walk-through inspection of the accessible areas of this project to develop an inventory of Suspect asbestos-containing material (ACM) homogeneous materials.

C. Regulatory Review:

According to NESHAP's standards (40 CFR 61.141), Asbestos Containing Building Materials are classified into three categories: Category I - Nonfriable asbestos-containing material (ACM), Category II - Nonfriable ACM, and Regulated asbestos-containing material (RACM). According to EPA-AHERA/ASHARA's standards (40 CFR Part 763), ACBM's are classified into three categories: Surfacing material, Thermal System Insulation (TSI) and Miscellaneous material.

Once the inspector has identified the ACM in a building, he or she must perform a physical assessment of TSI and friable material. Under § 763.88 of the AHERA Rule, the physical assessment of ACBM involve classifying the material into one of the following seven Categories: Damaged or significantly damaged TSI ACM; Damaged friable surfacing ACM; Significantly damaged friable surfacing ACM; Damaged or significantly damaged friable miscellaneous ACM; ACBM with potential for damage; ACBM with potential for significant damage; and Any remaining friable ACBM or friable suspected ACBM.

The PR *Departamento de Recursos Naturales y Ambientales*-former Environmental Quality Board (Regulation for the Control of Atmospheric Pollution-Rule 422) enacted in 1996, required all commercial and public building, including industries to identify asbestos containing building materials in their structures and take appropriate actions to control the release of asbestos fiber. Asbestos inspection is part of the permitting application process for any future project in the buildings which may include renovation or demolition activities regulated by the PR State/Municipal Offices. To obtain demolition permits in Puerto Rico is necessary to includes a certification (OGP-PGC-009 or equivalent) stating that there is not asbestos containing material in the project.



IV. CONCLUSION AND LIMITATIONS

Asbestos containing materials were not found at the project "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements, PR-512 (kms 0.0 – 4.50) Project AC-808541.

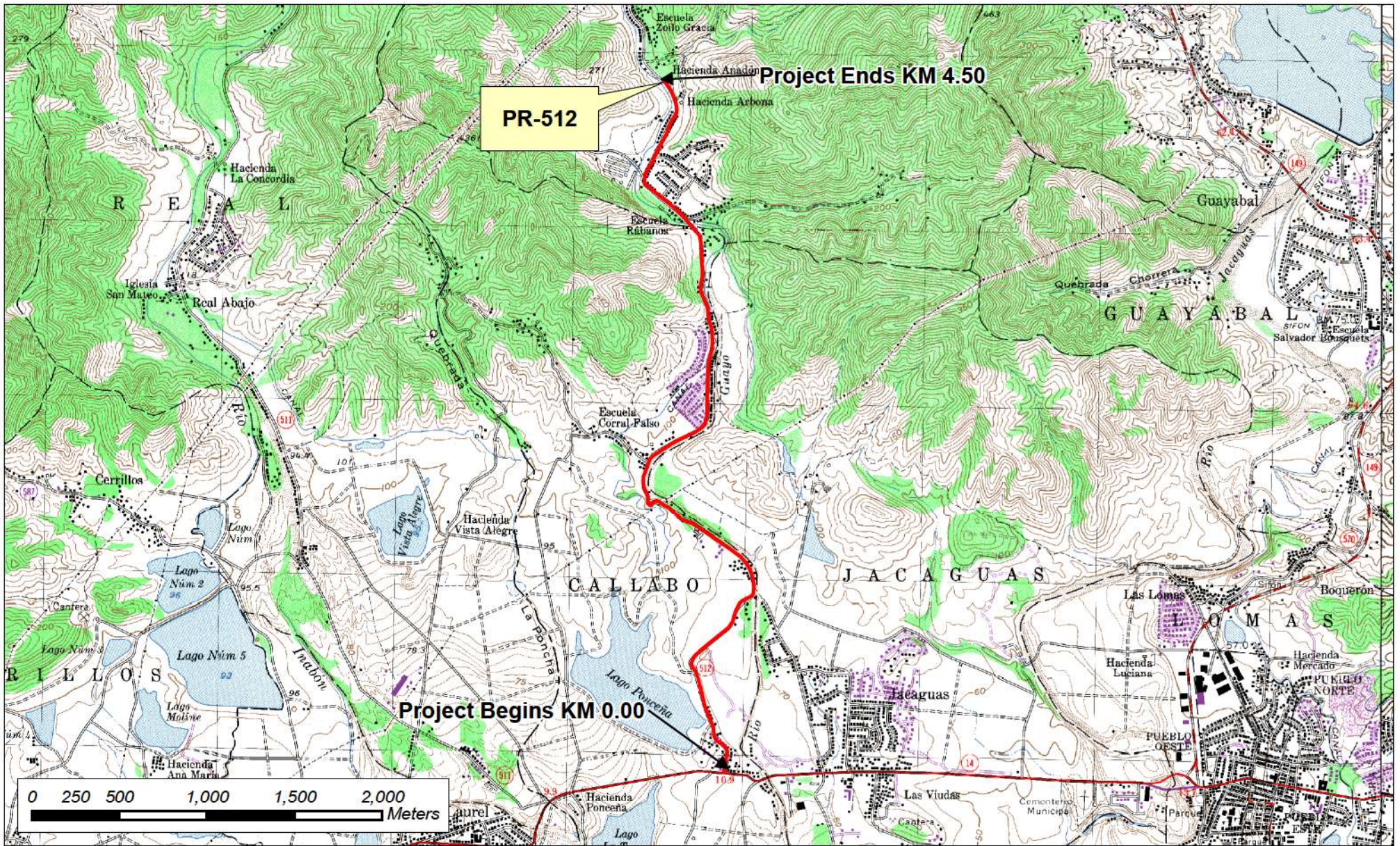
The results, findings, and conclusions expressed in this report are based only on conditions that were noted during the Nortol's assessment of the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, PR-512 (kms 0.0 – 4.50) Project AC-808541, on November 22, 2019. Any conditions or materials that could not be visually identified on the surface were not inspected and may differ from those conditions or materials noted. It was not within the scope of the inspection to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Nortol's statement was based on Nortol's observations and the assumption that like components in the same area are homogeneous.

See Attachment 4.0 for inspector's certifications.



Attachment 1.0 – Location Map & Diagrams





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-512 FROM KM 0.00 TO KM 4.50 JUANA DIAZ, PR

ID: OPE-F-24-B FRAME LETTER

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Location Map

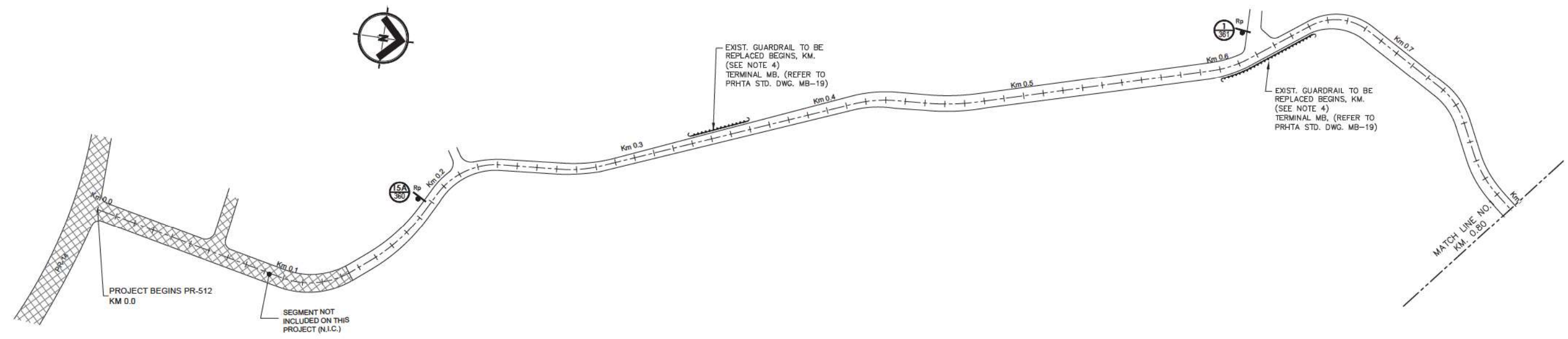
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SHEET INFORMATION	
DATE SUBMITTED: 2/3/2020	PROJECT NO. 100-1924.0
SCALE: 1:30,000	DESCRIPTION FIGURE

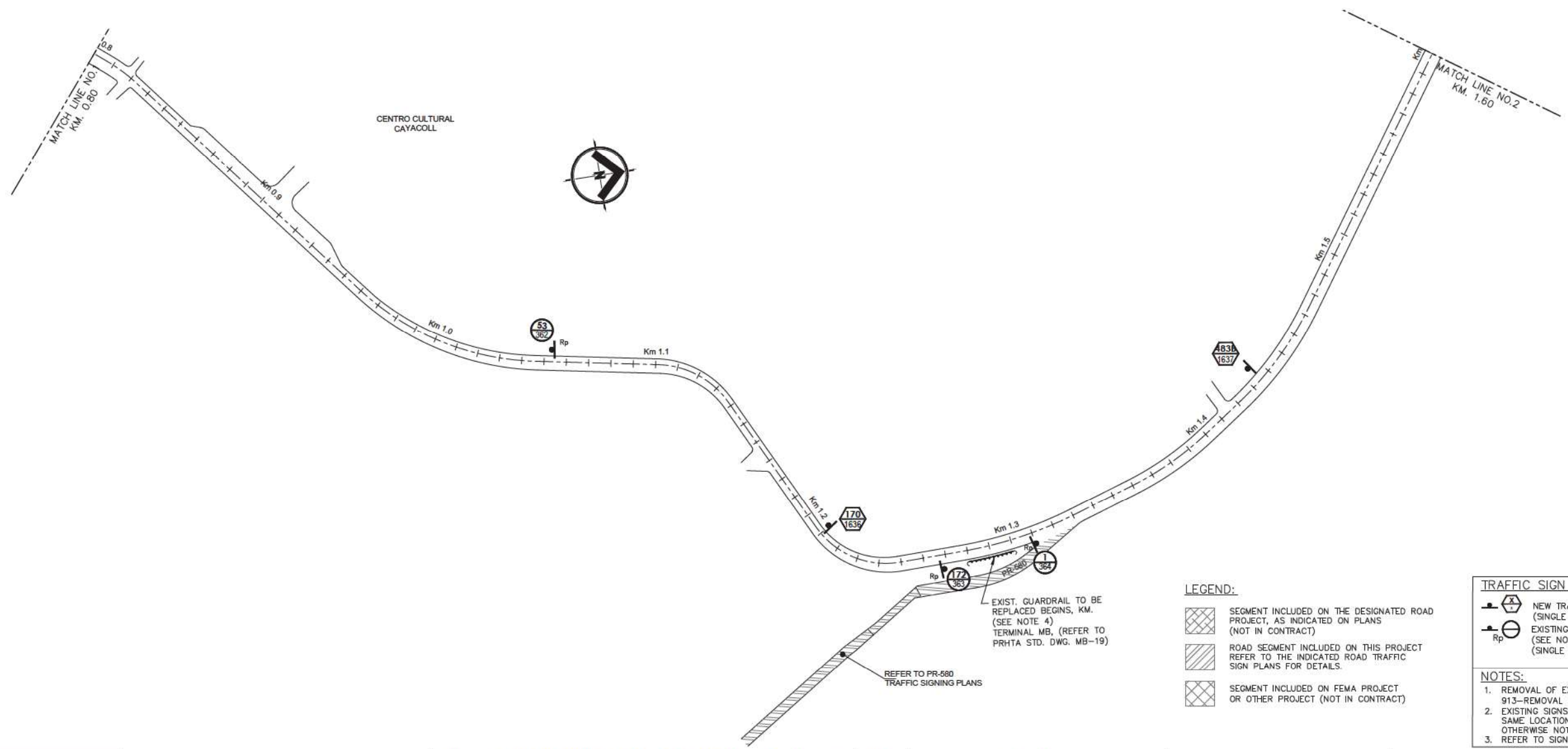


ORACLE NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-512	JUANA DIAZ	PR	2019	193	288

LAGO PONCEÑA



CENTRO CULTURAL CAYACOLL



LEGEND:

- SEGMENT INCLUDED ON THE DESIGNATED ROAD PROJECT, AS INDICATED ON PLANS (NOT IN CONTRACT)
- ROAD SEGMENT INCLUDED ON THIS PROJECT REFER TO THE INDICATED ROAD TRAFFIC SIGN PLANS FOR DETAILS.
- SEGMENT INCLUDED ON FEMA PROJECT OR OTHER PROJECT (NOT IN CONTRACT)

TRAFFIC SIGN LEGEND:

- NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)
- EXISTING SIGN TO BE REMOVED (SEE NOTE 1)
- EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
- EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)
- EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.

WORK	BY	DATE
DESIGN	##	##/##/##
DRAWING	##	##/##/##
TRACED	##	##/##/##
CHECK	##	##/##/##
FINAL CHECK	##	##/##/##

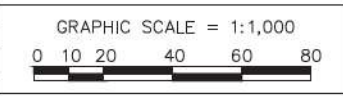
FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-512\01-SHEET_PR-512_TS-1-3 PLANS.DWG



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

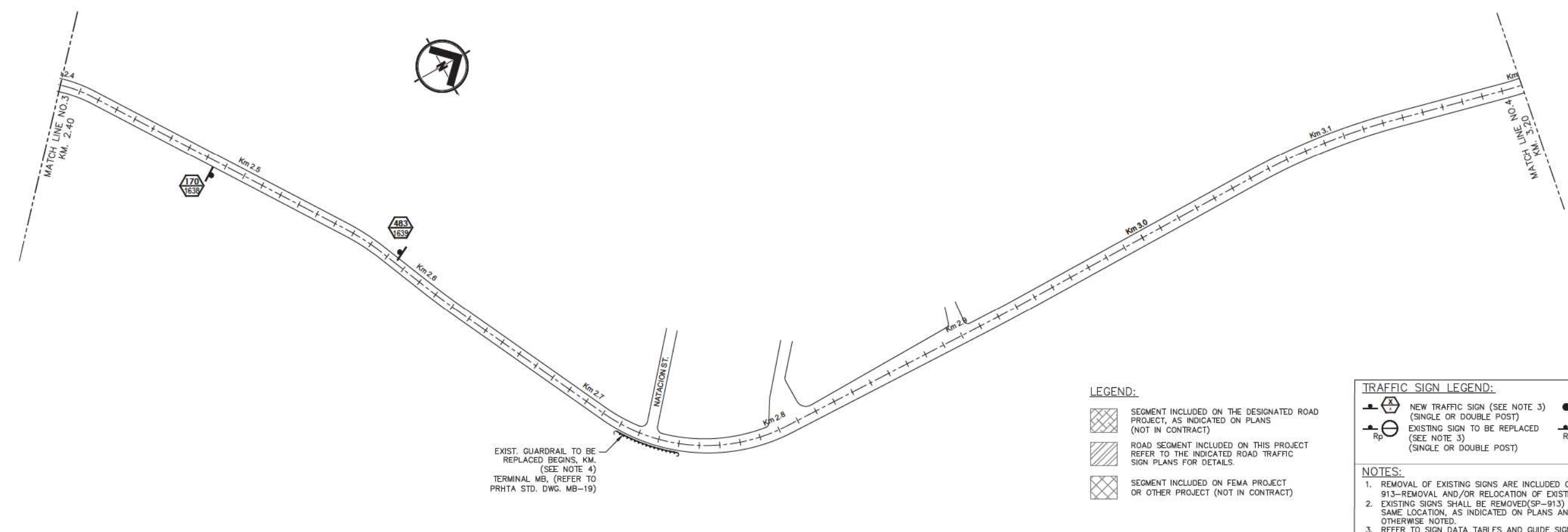
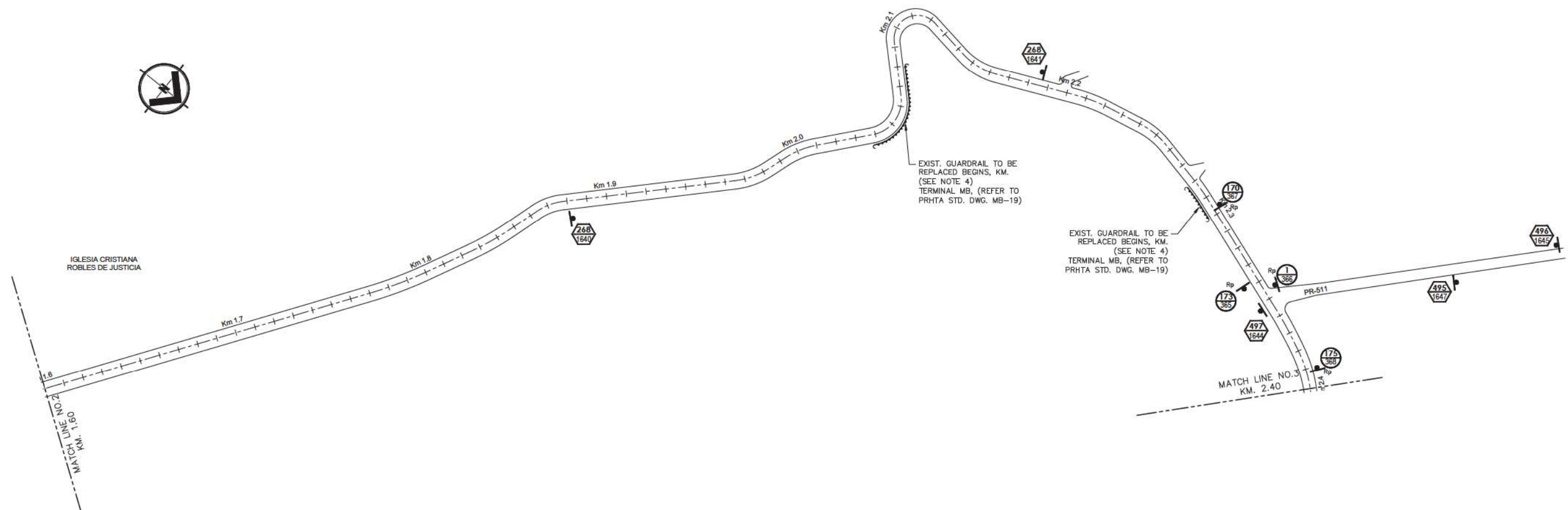
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
PR-512 FROM KM.0.0 TO KM.4.50
JUANA DIAZ, P.R.

DATE	REVISIONS



TRAFFIC SIGNING PLAN

ORACLE NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-512	JUANA DIAZ	PR	2019	194	288



LEGEND:

- SEGMENT INCLUDED ON THE DESIGNATED ROAD PROJECT, AS INDICATED ON PLANS (NOT IN CONTRACT)
- ROAD SEGMENT INCLUDED ON THIS PROJECT REFER TO THE INDICATED ROAD TRAFFIC SIGN PLANS FOR DETAILS.
- SEGMENT INCLUDED ON FEMA PROJECT OR OTHER PROJECT (NOT IN CONTRACT)

TRAFFIC SIGN LEGEND:

- NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)
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- EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
- EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)
- EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)

NOTES:

- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
- EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
- REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

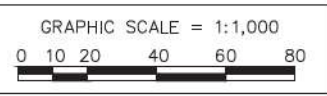
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

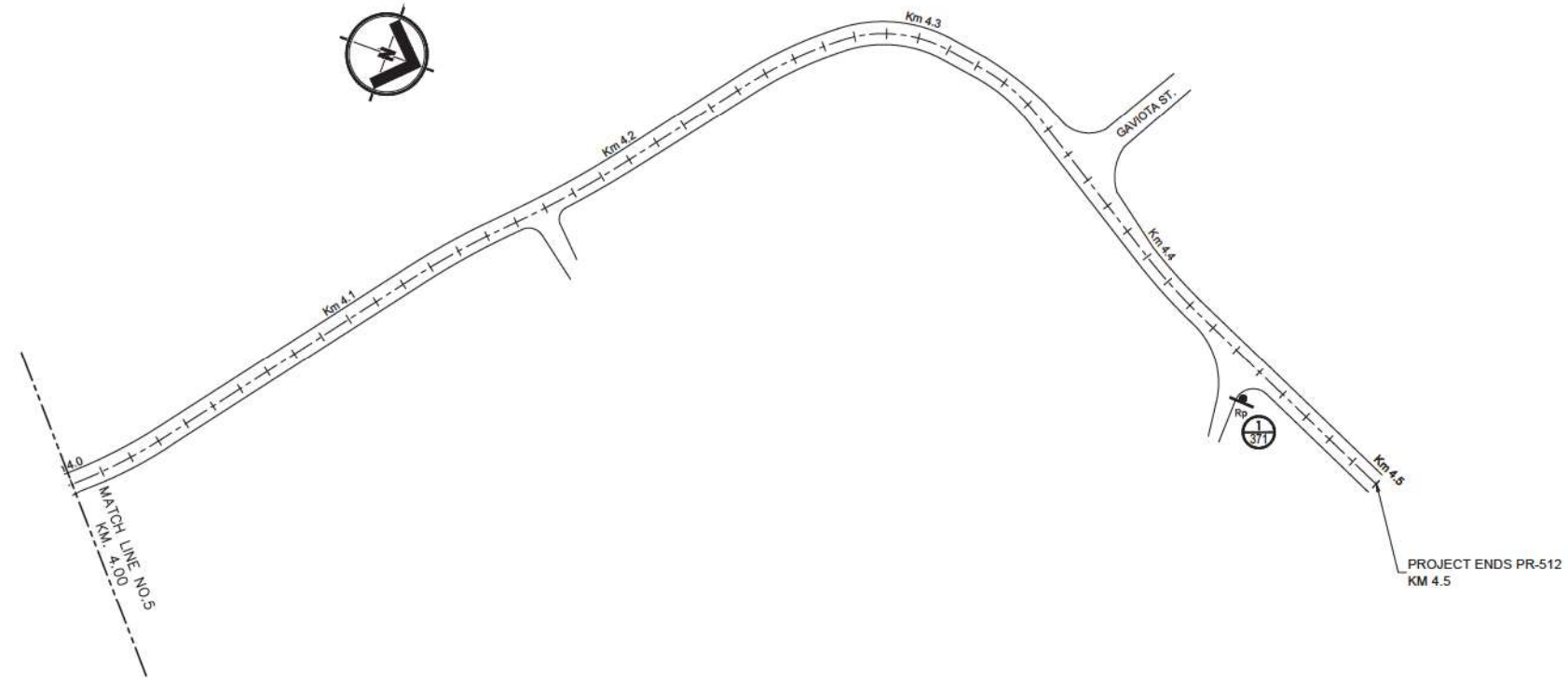
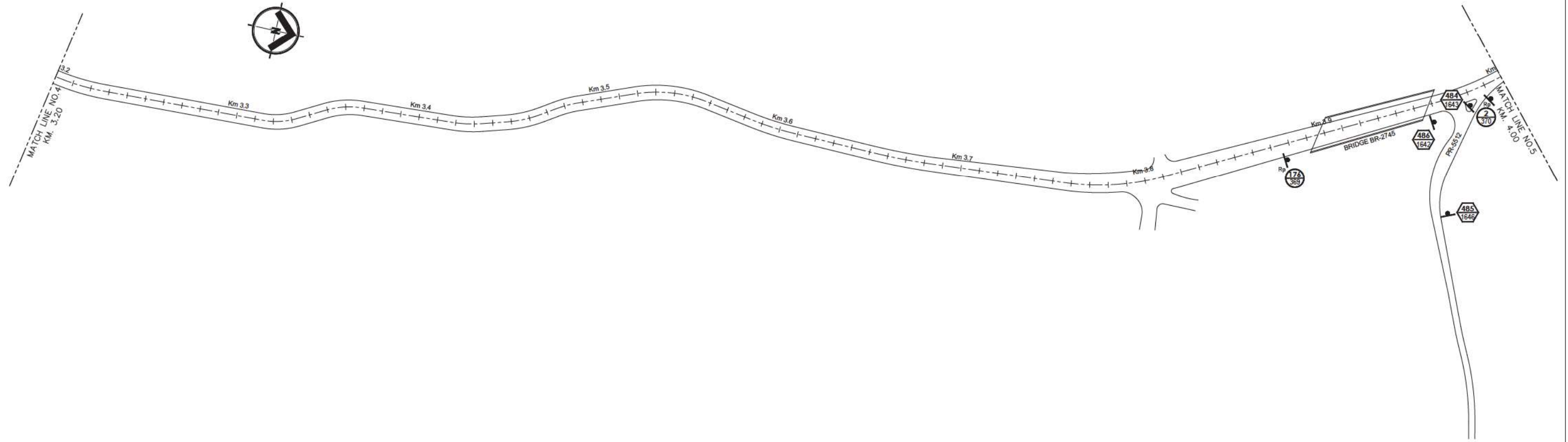
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
PR-512 FROM KM.0.0 TO KM.4.50
JUANA DIAZ, P.R.

DATE	REVISIONS



TRAFFIC SIGNING PLAN

ORACLE NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-512	JUANA DIAZ	PR	2019	195	288



LEGEND:

- SEGMENT INCLUDED ON THE DESIGNATED ROAD PROJECT, AS INDICATED ON PLANS (NOT IN CONTRACT)
- ROAD SEGMENT INCLUDED ON THIS PROJECT REFER TO THE INDICATED ROAD TRAFFIC SIGN PLANS FOR DETAILS.
- SEGMENT INCLUDED ON FEMA PROJECT OR OTHER PROJECT (NOT IN CONTRACT)

TRAFFIC SIGN LEGEND:

- NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)
- EXISTING SIGN TO BE REMOVED (SEE NOTE 1)
- EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
- EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)
- EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)

NOTES:

- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
- EXISTING SIGNS SHALL BE REMOVED(SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
- REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

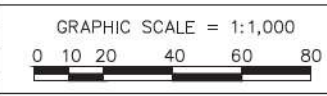
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
PR-512 FROM KM.0.0 TO KM.4.50
JUANA DIAZ, P.R.

DATE	REVISIONS



Attachment 2.0 – Representative Pictures





Kms 0.33 - 0.37





Kms 0.60 - 0.65





Kms 1.26 - 1.30





Km 2.04 - 2.08





Kms 2.28 - 2.32





Kms 2.71 - 2.75



Attachment 3.0 – PGC009 (no asbestos)





**CERTIFICACION DE NO PRESENCIA DE ASBESTO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

PGC- _____
PARA USO OFICIAL

Yo, Angel A. Burgos Torres, mayor de edad, casado, y vecino de Gurabo, Puerto Rico
(Nombre) (Estado Civil) (Municipio)

Dirección Postal P.O. Box 366457, San Juan P.R. 00936-6457
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 761-5527 Oficina (787) 420-0220
Fax (787) n/a

Certifico que:

1. La estructura "segmento kms 0.0 al 4.5" localizada en la PR-512, Juana Díaz, P.R., la cual será objeto de una demolición se encuentra libre de asbesto.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en San Juan de Puerto Rico,
(Municipio)
hoy día 21 de febrero de 2020.


Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)



Nota: Ingenieros o Arquitectos deberán someter evidencia de que se encuentra al día en el pago de sus cuotas de colegiación e Inspectores de Asbesto deberán someter evidencia de la tarjeta de registro provista por la JCA.



PR Environmental Quality Board
Asbestos Inspector Accreditation

Attachment 4.0 – Inspector's Accreditations





PR Environmental Quality Board
Asbestos Inspector Accreditation



PR Environmental Quality Board
Asbestos Inspector Accreditation



PR Environmental Quality Board
Asbestos Inspector Accreditation



CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

PGC-_____
PARA USO OFICIAL

Yo, Norma I. Torres Lebrón, mayor de edad, soltera, y vecina de San Juan, Puerto Rico
(Nombre) (Estado Civil) (Municipio)

Dirección Postal P.O. Box 366457, San Juan P.R. 00936-6457
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 761-5527 Oficina (787) 420-0220
Fax (787) 293-5774

Certifico que:

1. La estructura "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project" localizada en segmentos identificados de las carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz, P.R., la cual será objeto de una demolición se encuentra libre de asbesto.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en San Juan de Puerto Rico, (Municipio)
hoy día 22 de noviembre de 2019.



Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)



Nota: Ingenieros o Arquitectos deberán someter evidencia de que se encuentra al día en el pago de sus cuotas de colegiación e Inspectores de Asbesto deberán someter evidencia de la tarjeta de registro provista por la JCA.



PR Environmental Quality Board
Asbestos Inspector Accreditation



Lead Based Paint Inspection Report

Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements
Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-
551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz
and PR-149-Ciales/Orocovis/Villalba/Juana Díaz

Prepared for:

Puerto Rico Highway and Transportation Authority
Centro Gubernamental Roberto Sánchez Vilella
PO Box 42007, San Juan, P.R. 00940-2007

Inspector:

Norma I. Torres

LBP PREQB I.D. # 3253-1218-LI-003
NORTOL'S PREQB Lead Firm #: 5550-0219-LF-007
NORTOL'S USEPA Lead Firm #: NAF-F121771-2
XRF-direct reading Instrument: *Pb200i Alpha (serial # 1142)*

Survey Dates: March 19 and 20, 2019

Table of Contents

Executive Summary	3
Introduction	4
Regulatory Review	5
Survey Design & Methodology	6
Lead Based Paint Results	6
Conclusion and Limitations	7

Attachment 1 – Location Maps

Attachment 2 – Representative Pictures

Attachment 3 – LBP XRF Readings

Attachment 4 – PGC-010 LBP Certification (no presence, as applicable)

Attachment 5 – Inspector, Company and XRF-instrument Certificates



EXECUTIVE SUMMARY

The Puerto Rico Highway & Transportation Authority (PRHTA), as part of their project “Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz”, requested a Lead Based Paint (LBP) survey. The project is located at following PR road’s segments as indicated in Attachment 1.0 (Location Maps):

Road ID	Kilometer	City
PR-359	km 0.0 a 0.24	Yauco
PR-128	km 0.0 to 58.90	Yauco
PR-535	km 0.0 to 6.9	Juana Díaz
PR-551	km 0.0 to 3.75	Juana Díaz
PR-132	km 0.0 to 25.50 (km 20.24 a 20.27)	Guayanilla/Peñuelas/Ponce
PR-552	km 0.0 to 3.5	Juana Díaz
PR-149	km 12.80 to 72.30	Ciales/Orocovis/Villalba/Juana Díaz
Segment with guardrails positive to lead-based paint. See Attachment 1.0-Location Map.		

The assessment was conducted by Nortol Environmental & Occupational Safety, Inc., under agreement with Integra Design Group (IDG) as PRHTA representative. The field work was executed within March 19 and 20, 2019 in coordination with Ms. Luz M. Rodríguez from IDG.

The XRF-readings shown that metal safety guardrails from segment at PR-132 (km 20.24 to 20.27) are positive to Lead-based Paint. The established threshold for the classification of painted components as lead bearing per federal and local regulations is 1.0 mg/cm². Other guardrails are negative to LBP or are unpainted. Representative pictures are included as Attachment 2.0



I. INTRODUCTION

A. Lead-based Paint background

Lead is one of the most common over exposure found in industry. It is also a major potential public health risk. Lead poisoning is a leading environmentally induced illness in children. At greatest risk are children under the age of six because they are undergoing rapid neurological and physical development. In general population, lead may be present at hazardous concentrations in food, water, and air. Sources include lead-based paint, urban soil and dust, and drinking water.

Lead is commonly added to industrial paints because of its characteristic to resist corrosion. Industries with particularly high potential exposures include: construction work involving welding, cutting, brazing, blasting, etc., on lead paint surfaces; most smelter operations either as a trace contaminant or as a major product; secondary lead smelters where lead is recovered from batteries; radiator repair shops; and firing ranges. Oral ingestion may represent a major route of exposure in contaminated workplaces. Once in the blood, lead is distributed primarily among three routes - blood, soft tissue (kidney, bone marrow, liver, and brain) and mineralizing tissue (bones and teeth).

B. Survey Purpose and Scope

The purpose of this survey was to locate and identify if Lead-based Painted components are present in the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/ Villalba/Juana Díaz". The scope of work for this project consisted of the following tasks:

- ✓ Review the information for proposal as provided by the client;
- ✓ Coordinate field work with the client's representative;
- ✓ Achieve inventory of painted surfaces (guardrails);
- ✓ Select locations to be tested;
- ✓ Perform XRF testing;
- ✓ Review and evaluate the data;
- ✓ Report findings.



II. REGULATORY REVIEW

Hazard of lead in paint has been defined by the Department of Housing and Urban Development as 1.0 mg/cm² as measured by an XRF instrument, or Atomic Absorption Spectroscopy (AAS); or 0.5% by weight (or 5,000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X and by local regulation.

Although Occupational Safety and Health Administration (OSHA) regulations for occupational lead exposure have been in effect since 1971 for the construction and general industries, the agency recognized the need to provide better protection and revised the regulations for general industry in 1978. The 1978 lead standard, however, excluded the construction industry from coverage because of insufficient information regarding lead use in construction.

In 1990, the National Institute for Occupational Safety and Health (NIOSH) set a national goal to eliminate worker exposures resulting in blood lead concentrations greater than 25 micrograms per deciliter (25 µg/dl) of whole blood. Consequently, OSHA began developing a proposal for a comprehensive standard regulating occupational exposure to lead in construction. In October 1992, the Congress passed Section 1031 of Title X of the Housing and Community Development Act of 1992 (P. L. 102-550) requiring OSHA to issue an interim final lead standard for the construction industry, effective until OSHA issues a final standard. The interim final rule, published on May 4, 1993, amends the OSHA standards for occupational health and environmental controls in Subpart D of Title 29 *Code of Federal Regulations* (CFR) 1926 by adding a new section 1926.62, containing employee protection requirements for construction workers exposed to lead.

On July 1998 the PR *Departamento de Recursos Naturales y Ambientales*-former PR Environmental Quality Board regulations regarding to Lead Based Paint was created to issue activity permits, accredit institutions and certificate persons involved in Lead Based Paint activities in Puerto Rico. Local regulations require **all lead to be managed as a special waste**. On August 2019 this regulation was replaced by the new *Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo*. To obtain a demolition permit in Puerto Rico is necessary to includes a certification (OGP-PGC-010 or equivalent) stating that there is no lead-based paint in the project.



III. SURVEY DESIGN & METHODOLOGY

Inspection scope and schedule was coordinated with Luz M. Rodríguez from Integra Design Group as PRHTA representative to be conducted within specific days/hours.

The applicable guardrail's in the project scope areas were inspected for LBP. The survey was performed following applicable current regulations leading accredited inspections in Puerto Rico.

The technique used for the assessment of the painted components was the XRF instrument. Portable XRF instruments expose a component to X-ray or gamma radiation, which causes lead to emit X rays with a characteristic frequency or energy. The intensity of this radiation is measured by the instrument. The XRF instrument was set at Standard Paint Mode showing reading "Positive" or "Negative" with a 95% confident reading. The result is reported in mg/cm².

IV. Lead Based Paint Survey Results

By definitions set forth in 24 CFR Part § 35.86: *"Lead-Based Paint (LBP) means paint or other surface coatings that contain lead equal to or in excess of 1.0 milligram per square centimeter or 0.5 percent by weight."*

At the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/ Villalba/Juana Díaz", the metal safety guardrails from the segment described in Table 2.0 were found to contain lead-based paint at or above PR DNR and Department of Housing and Urban Development regulatory limit of 1.0 mg/cm².

Table 2.0
Guardrails positive to Lead-based Paint

Road ID	Kilometer	Location	Approximated amount
PR-132	km 20.24 a 20.27	Ponce	100 ft ²

The XRF-instrument's readings were between 1.4 and 2.0 mg/cm². Some of metal barriers have only the remnants of yellow paint. The XRF readings are tabulated in the Attachment 3.0.

Other guardrails are negative to LBP or are unpainted. See Attachment 4.0 for the PGC-009 (no Lbp presence certification) for these road's guardrail.



V. Conclusion and Limitations

The following options are promulgating by the PR *Departamento de Recursos Naturales y Ambientales* - former PR Environmental Quality Board regulations and/or the US Environmental Protection Agency (EPA):

- A Lead-Based Paint mitigation project shall be conducted prior to any demolition when lead is present in painted components. The LBP abatement project shall be in accordance with PR Environmental Quality Board applicable regulations. This requirement is particularly applicable to concrete components.

- Federal and local regulation provides that steel (or metal) structures with Lead-based Paint be considered as recycling material. Scrap metal is a relatively easy waste to recycle. Many operators have found that scrap metal recycling companies will collect and remove materials such as tanks, drums, and other types of scrap metal from the lease. Additional consideration should be given to the associated regulatory requirements. Scrap metal that is recycled is not subject to hazardous waste regulations; but it can be considered hazardous waste if disposed.

The results, findings, and conclusions expressed in this report are based only on conditions that were noted during the Nortol's assessment of the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce, PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz"; within March 19 and 20, 2019. Any conditions or materials that could not be visually identified on the surface were not inspected and may differ from those conditions or materials noted. It was not within the scope of the inspection to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Nortol's selection of reading locations and frequency of readings was based on Nortol's observations and the assumption that like components in the same area are homogeneous in paint content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential lead abatement contractors in locating lead-based paint. The abatement bidders are responsible for visiting the project to confirm the estimated amounts.

See Attachment 5.0 for company, personnel and instrument's certifications.

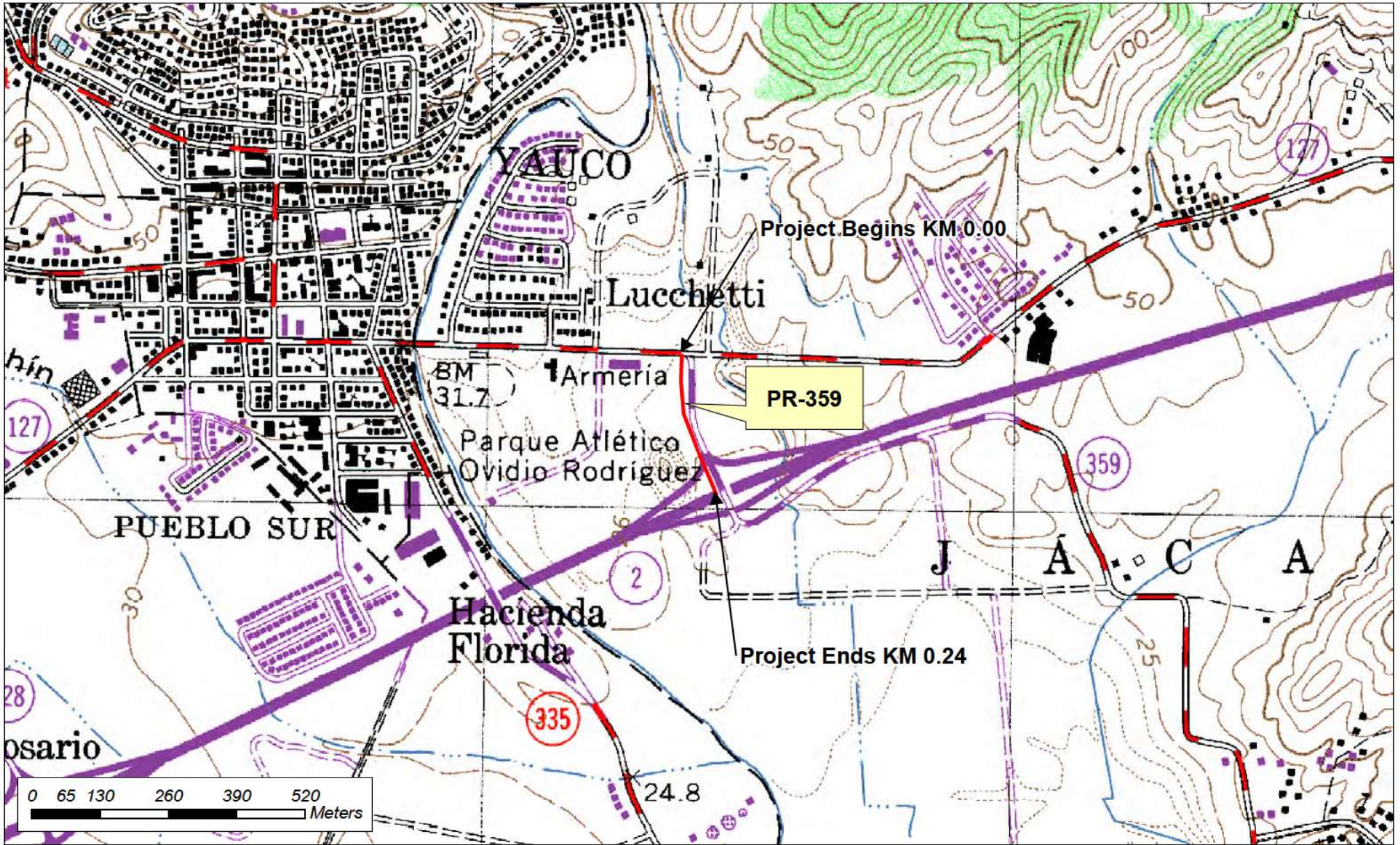


ATTACHMENT 1

LOCATION MAPS

(REFER TO PR-132 LOCATION MAP FOR GUARDRAIL POSITIVE TO LBP)





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-359, FROM KM 0.00 TO 0.24 YAUCO, PR

ID: OPE-F-24-B FRAME LETTER

INTEGR
 INTEGRA DESIGN GROUP PSC
 (787) 767 2111 www.integrapr.com

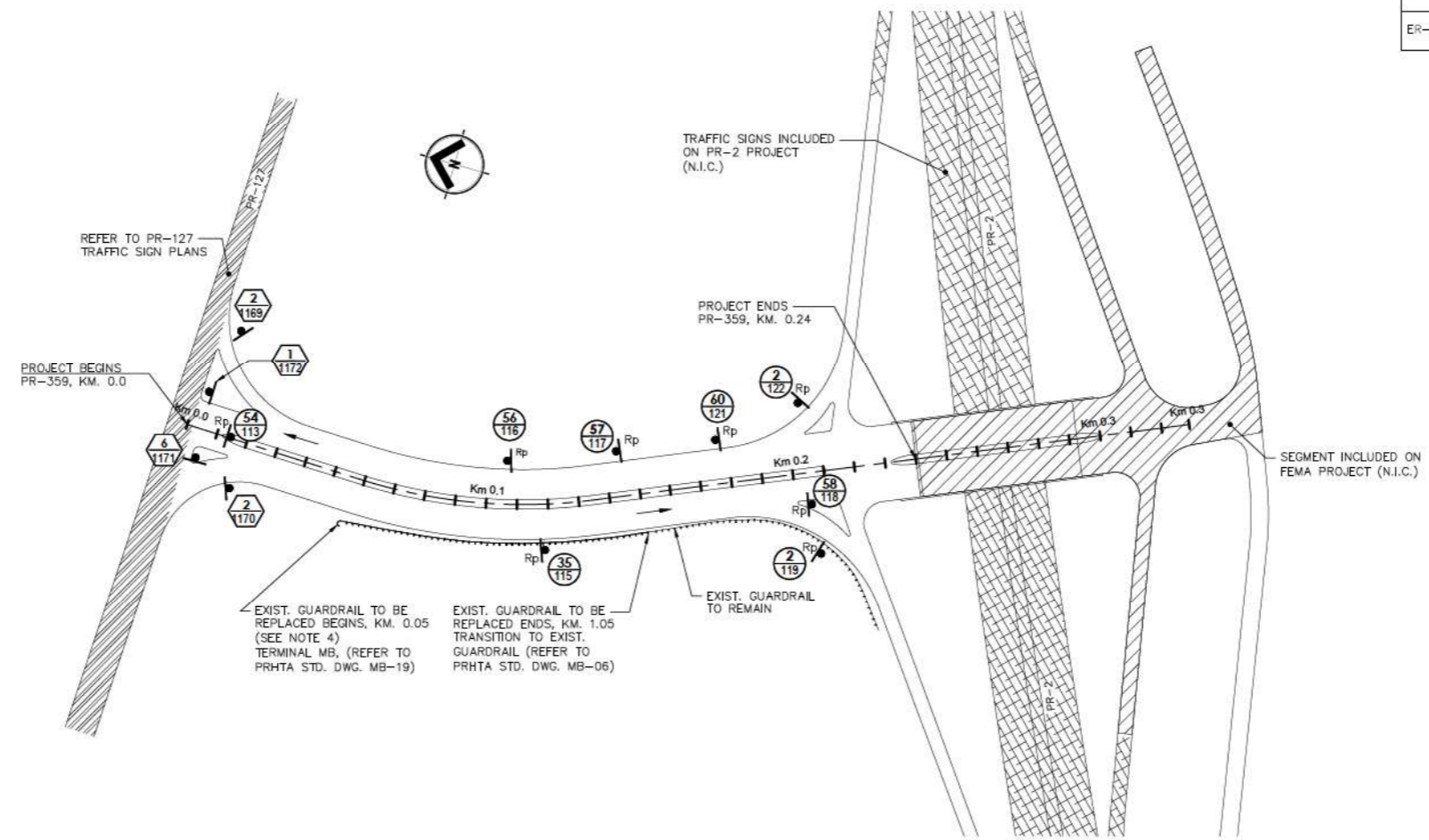
Location Map

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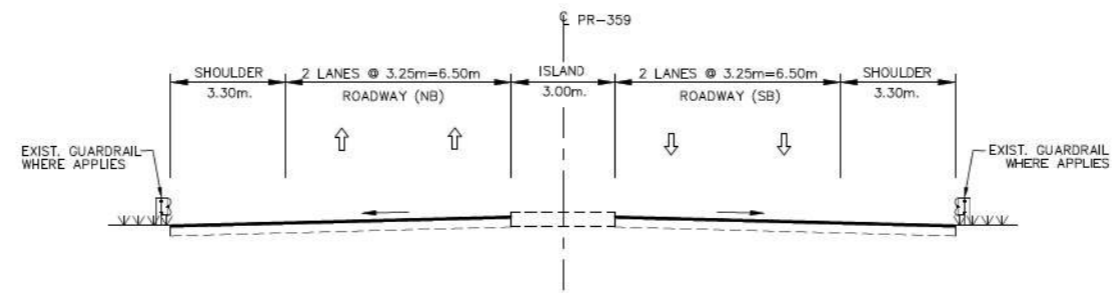
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DATE SUBMITTED: 2/3/2020	PROJECT NO. 100-1924.0
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FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-359	YAUCO	PR	2018	28	285



SPEC.	PAY ITEM	QUANTITY	UNIT
606	REMOVAL, STORAGE AND DELIVERY OF EXISTING GUARDRAILS (ANY TYPE)	100	LNM
606	W-BEAM GUARDRAIL, SINGLE FACE	100	LNM



TYPICAL SECTION A-A
FROM KM. 0.0 TO KM. 0.24

TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO REMAIN
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 2)		

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

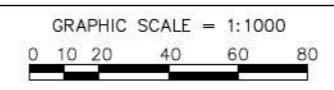
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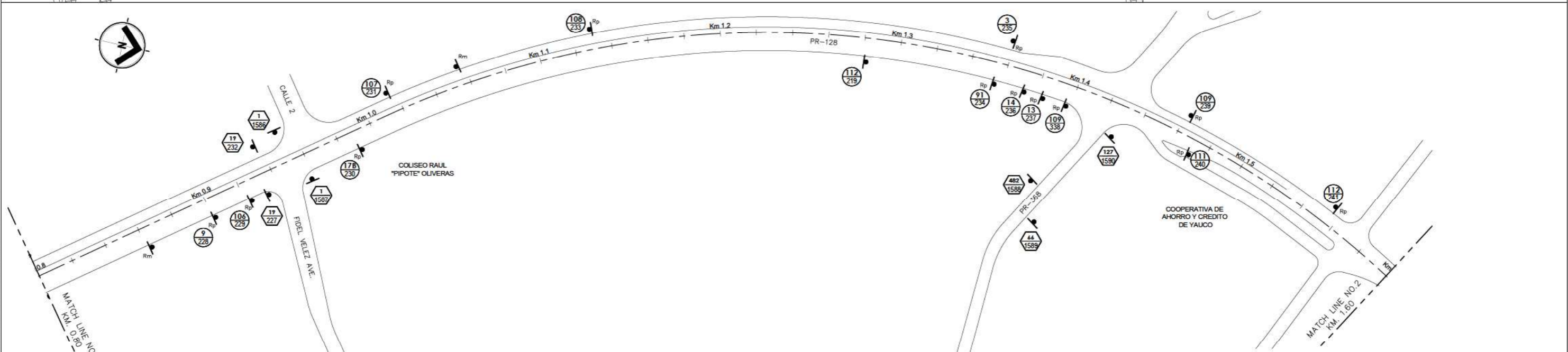
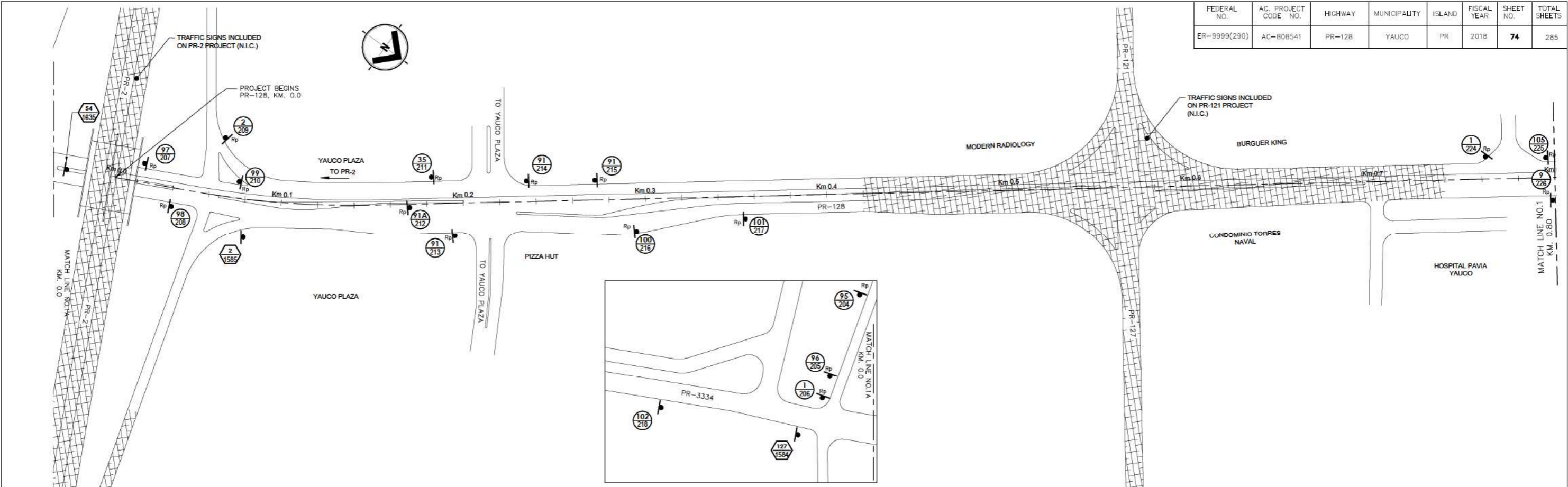
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 359 FROM KM 0.0 TO KM 0.24
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	74	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

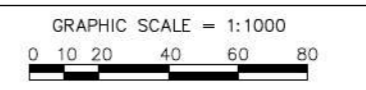
WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

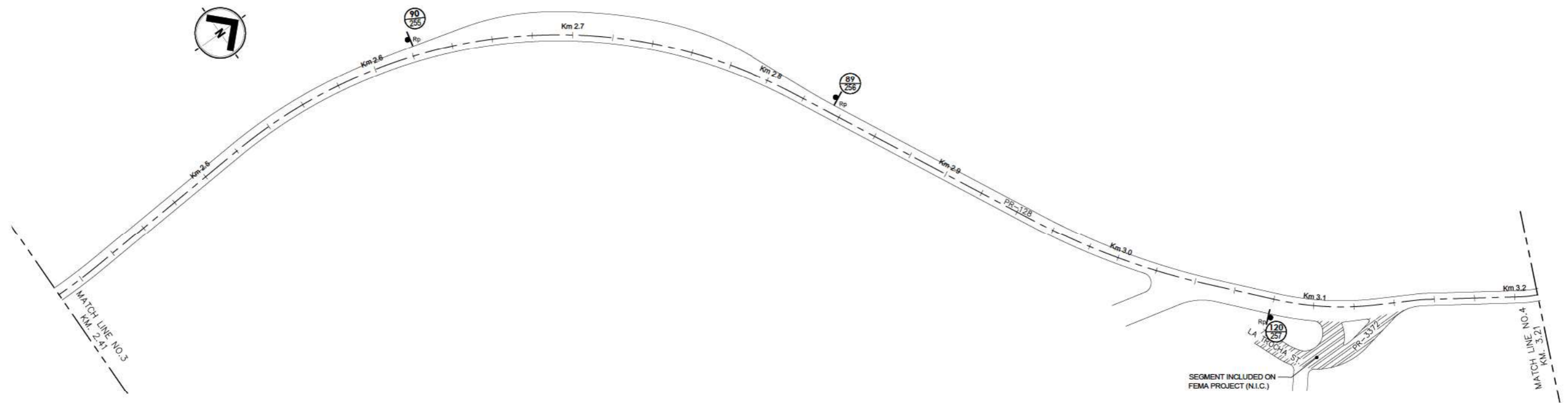
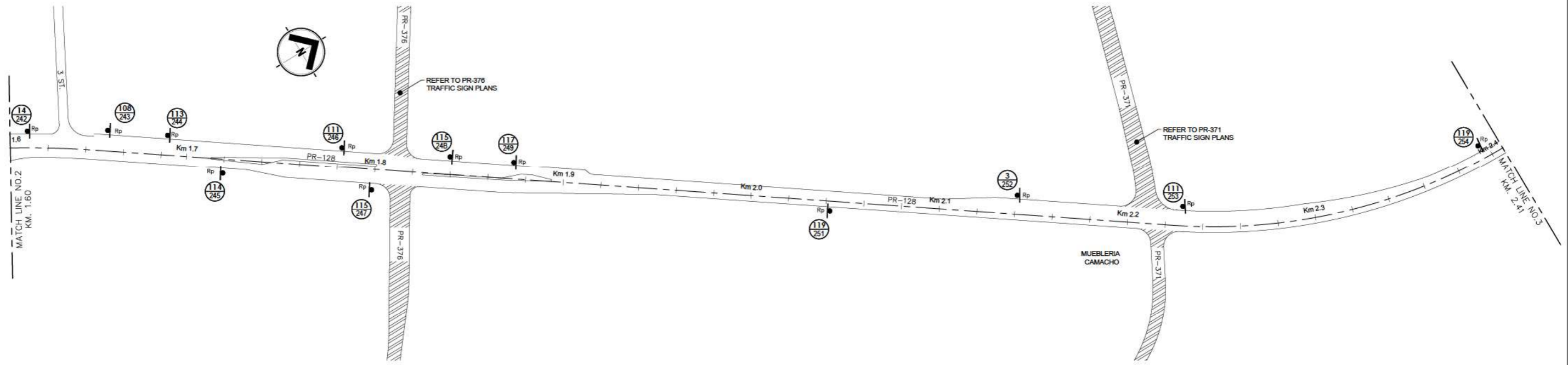
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA_HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 1\PR-128\PR-128-TS-1-37 PLAN.DWG

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	75	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

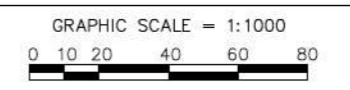
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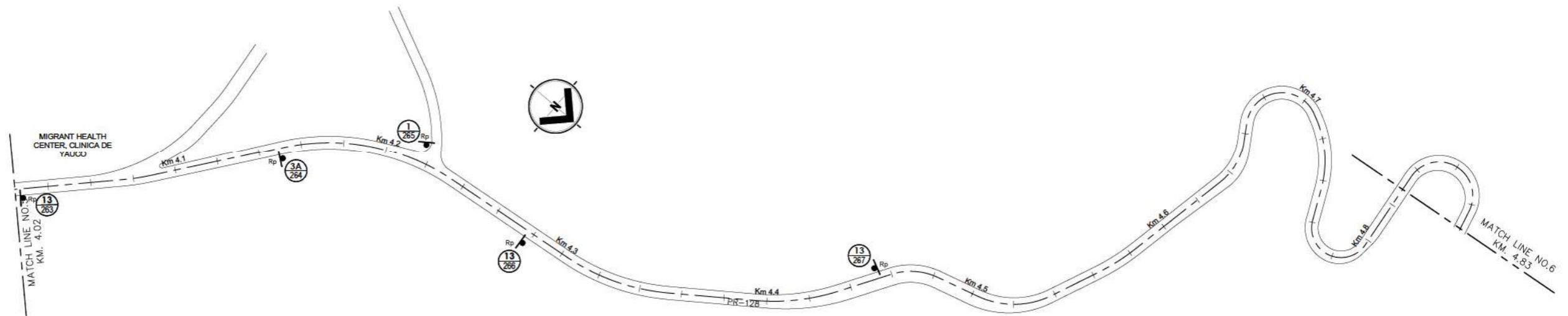
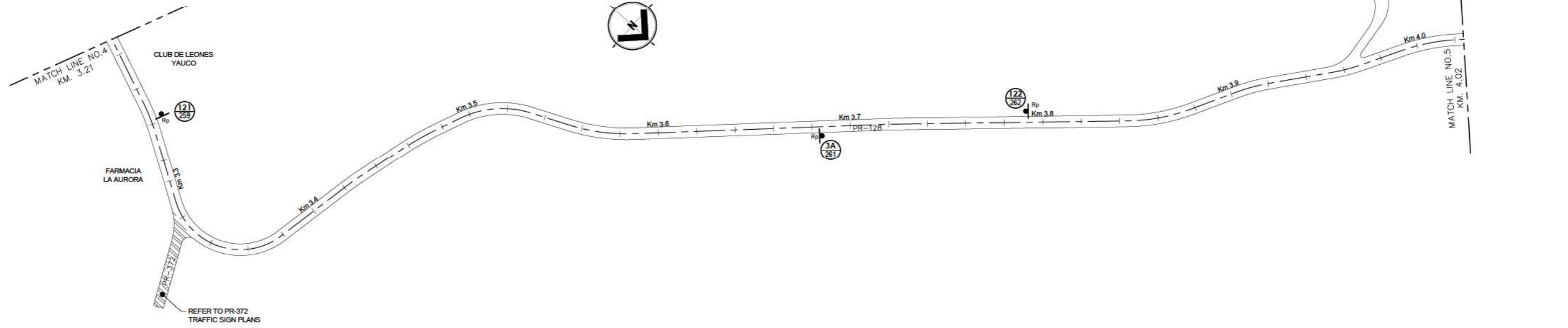
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	76	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

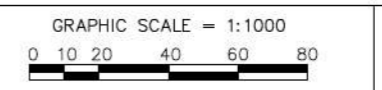
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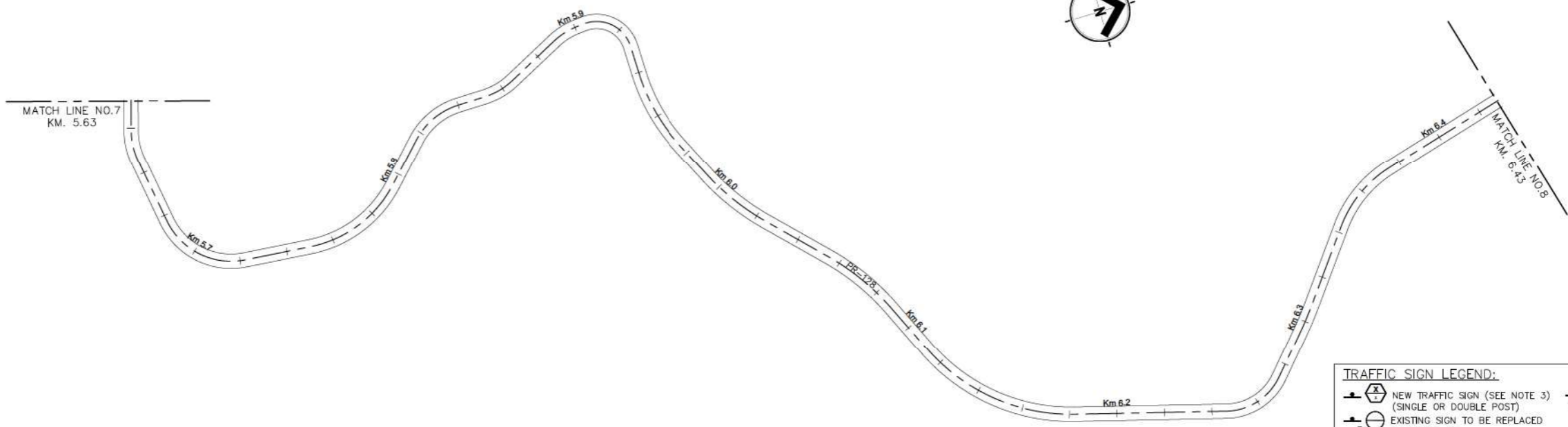
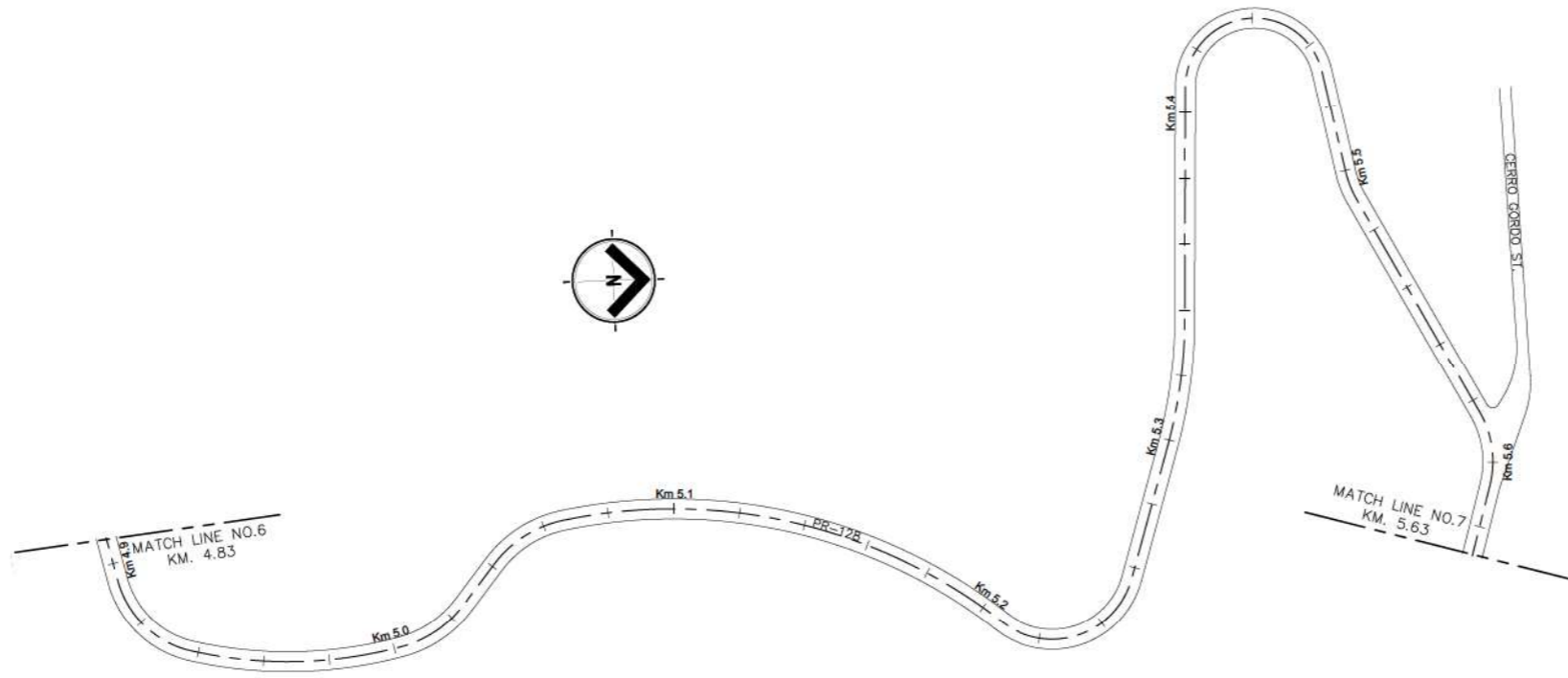
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	77	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

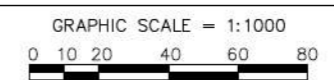
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 WORK BY DATE
 DESIGN # # #
 DRAWING # # #
 TRACED # # #
 CHECK # # #
 FINAL CHECK # # #



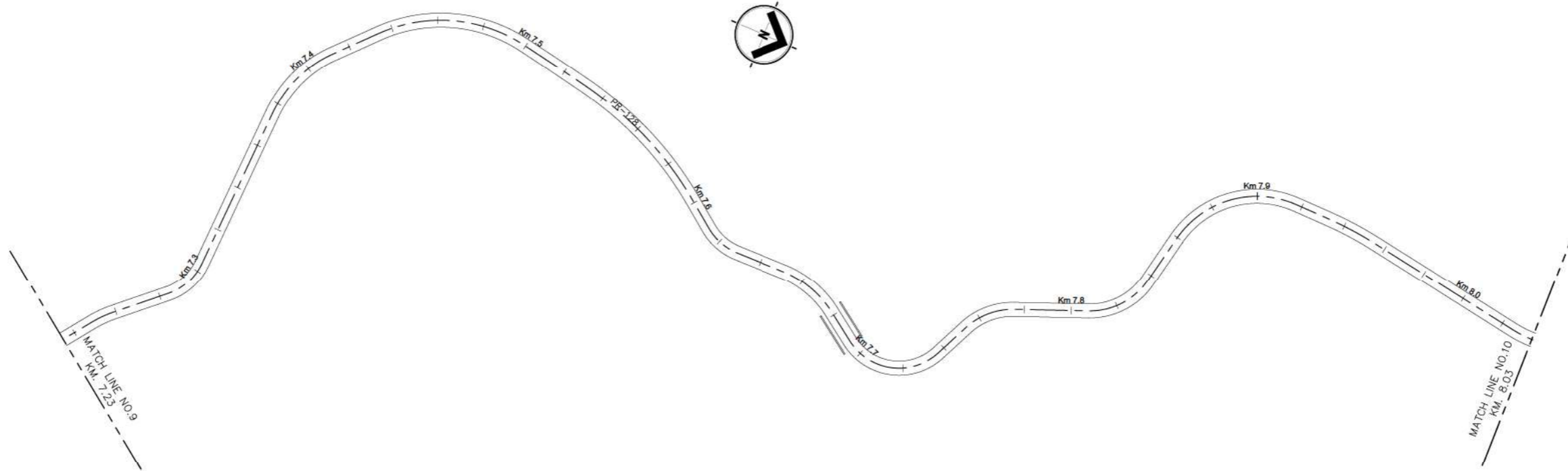
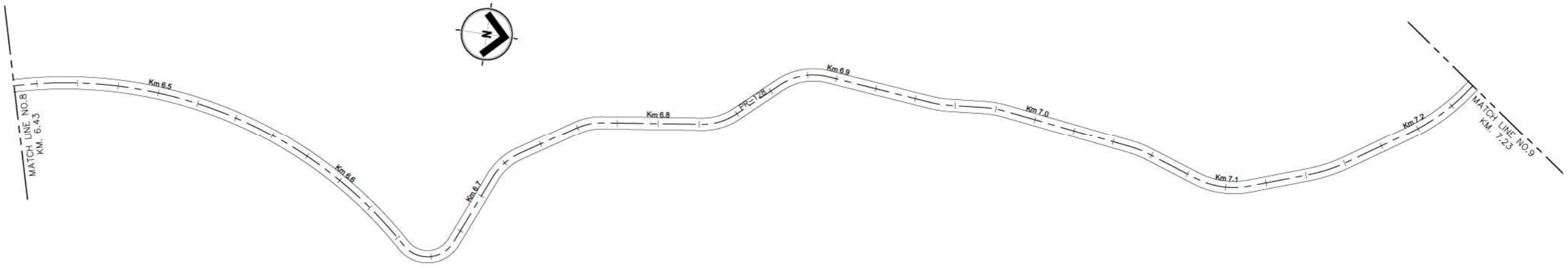
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R.- 128 FROM KM 0.0 TO KM 58.90
 YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	78	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

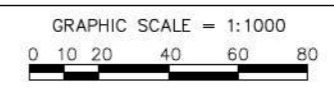
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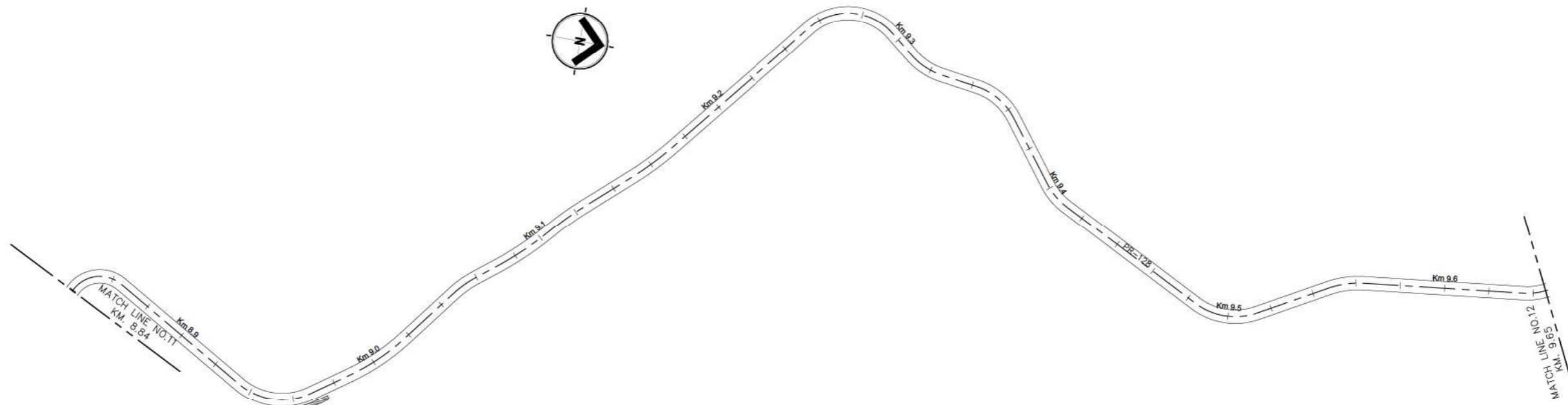
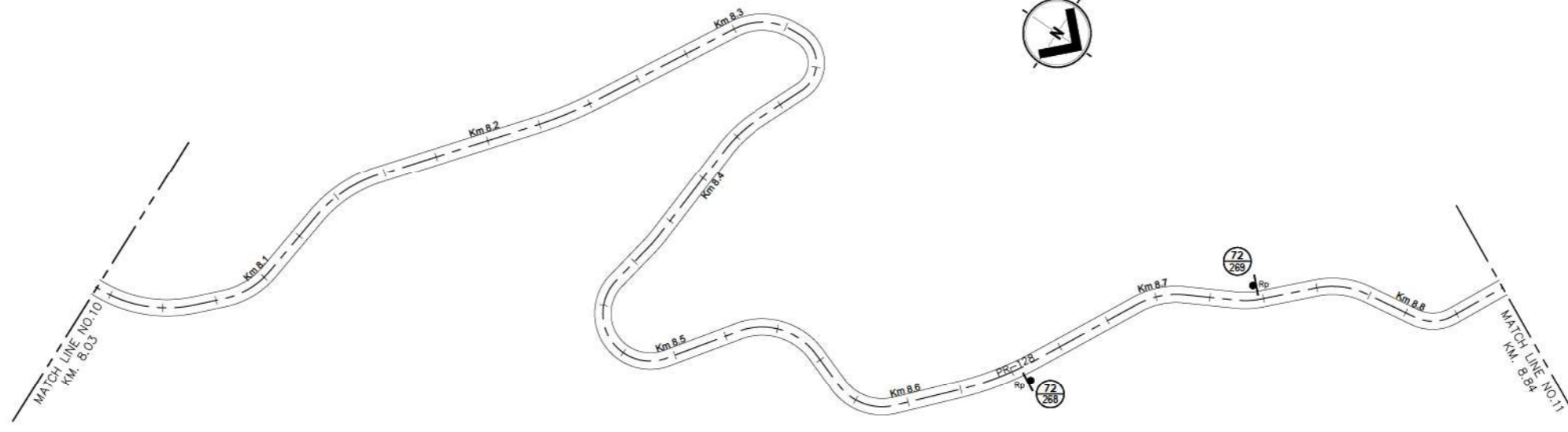
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	79	285



LANDSLIDE OBSERVED ON Km 8.97 APROX.
(NOT INCLUDED ON FEMA PROJECT OR
LANDSLIDE & ROAD DAMAGE EVALUATION
AND REPAIR PROJECT)

TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

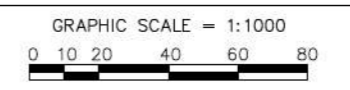
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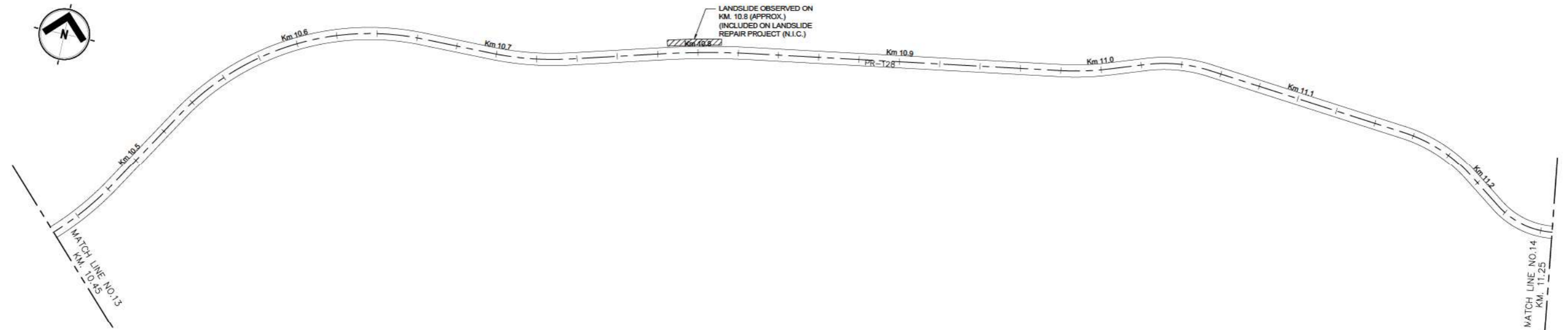
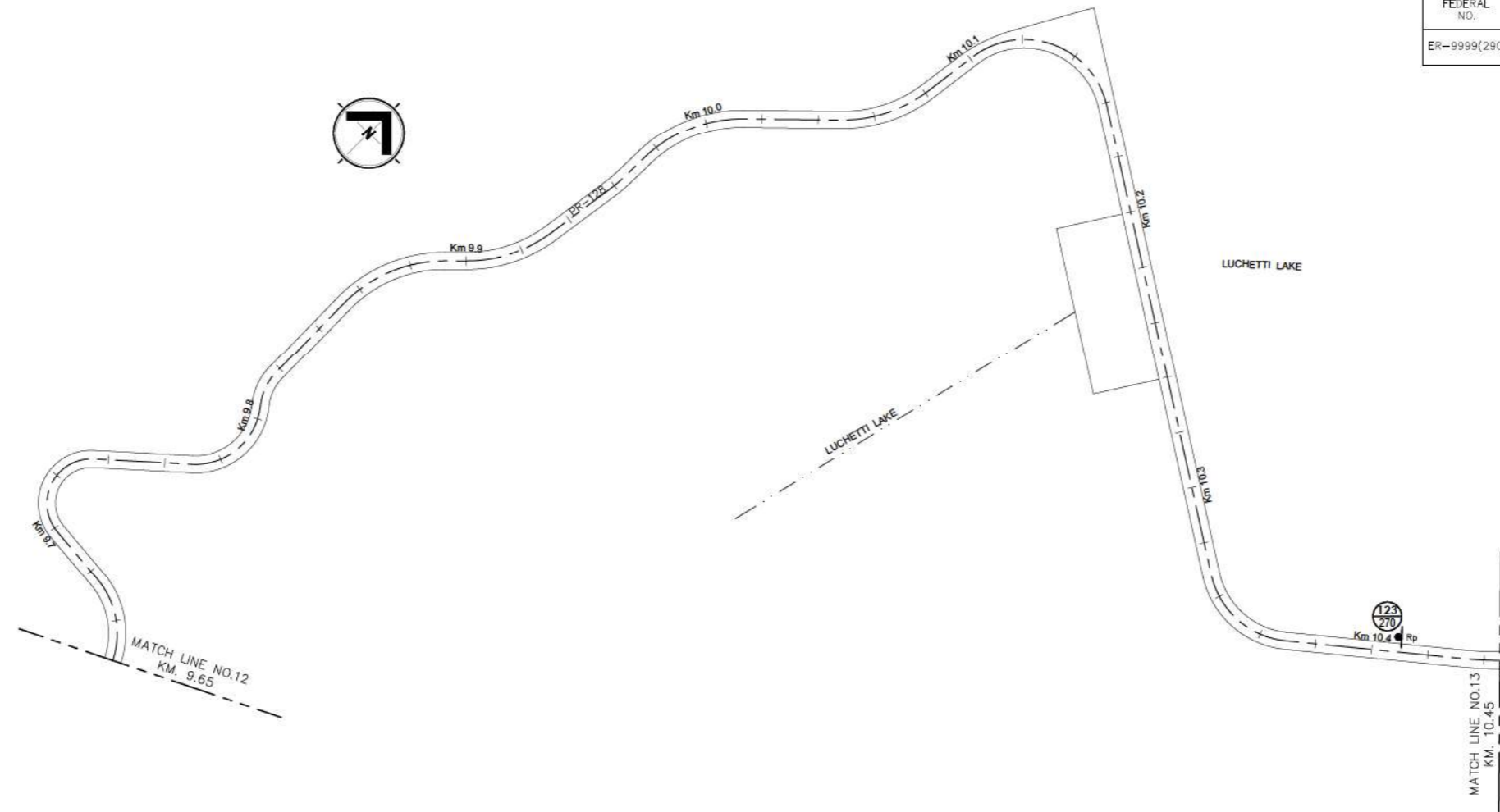
PUERTO RICO HIGHWAY AND
TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	80	285



TRAFFIC SIGN LEGEND:

NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)	EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)	EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 1\PR-128\PR-128-TS-1-37 PLAN.DWG



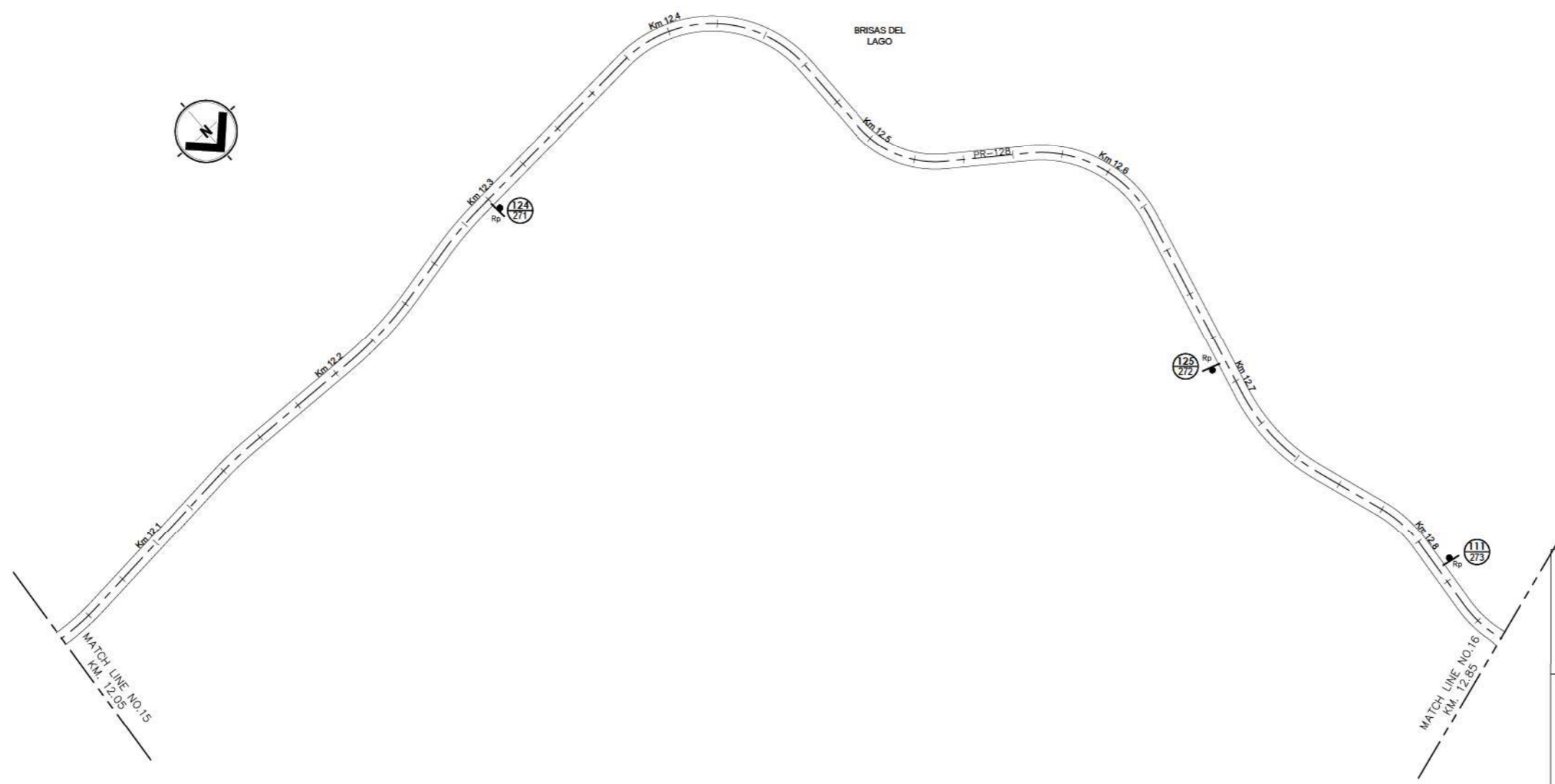
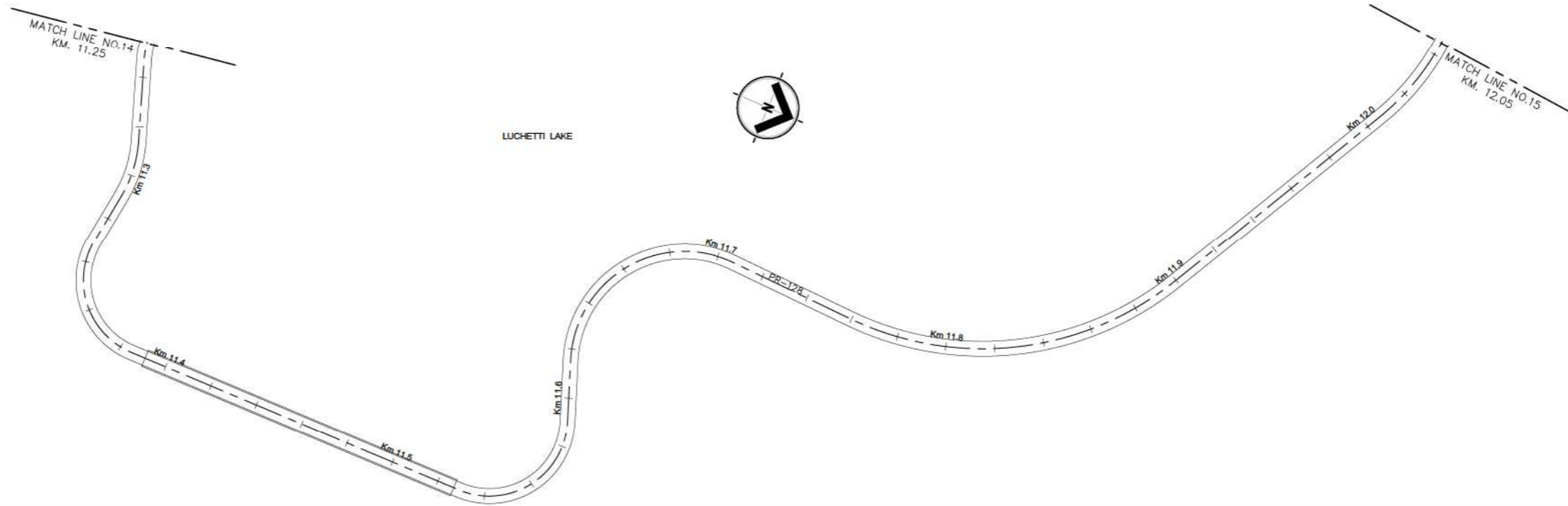
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	81	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

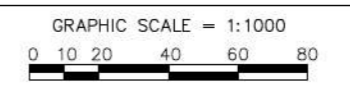
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 DESIGN # # # # #
 DRAWING # # # # #
 TRACED # # # # #
 CHECK # # # # #
 FINAL CHECK # # # # #



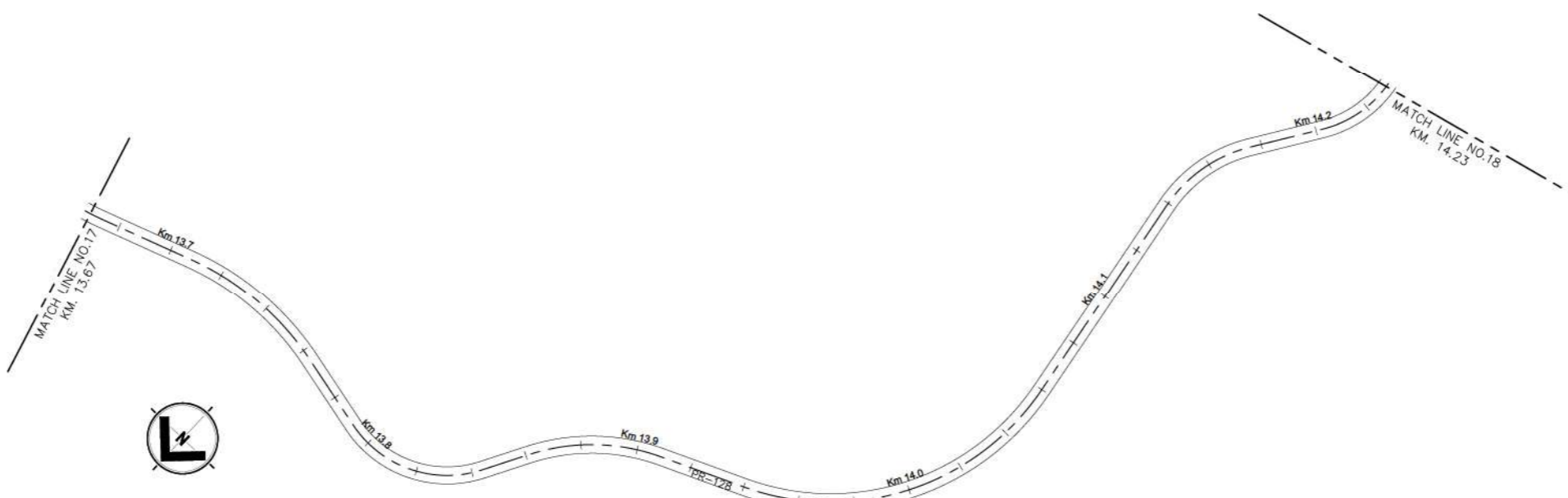
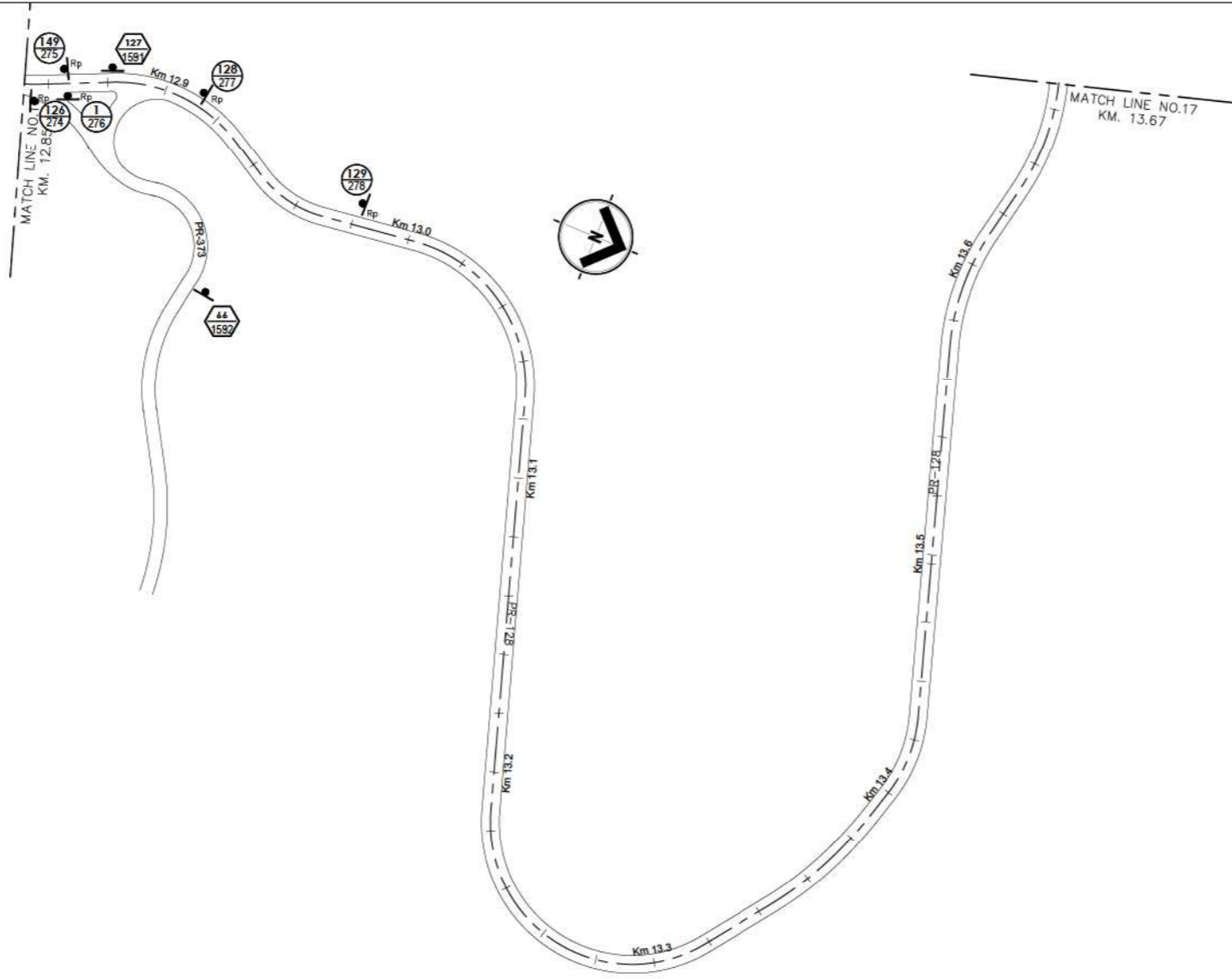
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R.- 128 FROM KM 0.0 TO KM 58.90
 YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	82	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	DATE
DESIGN	##
DRAWING	##
TRACED	##
CHECK	##
FINAL CHECK	##

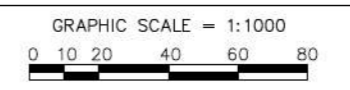
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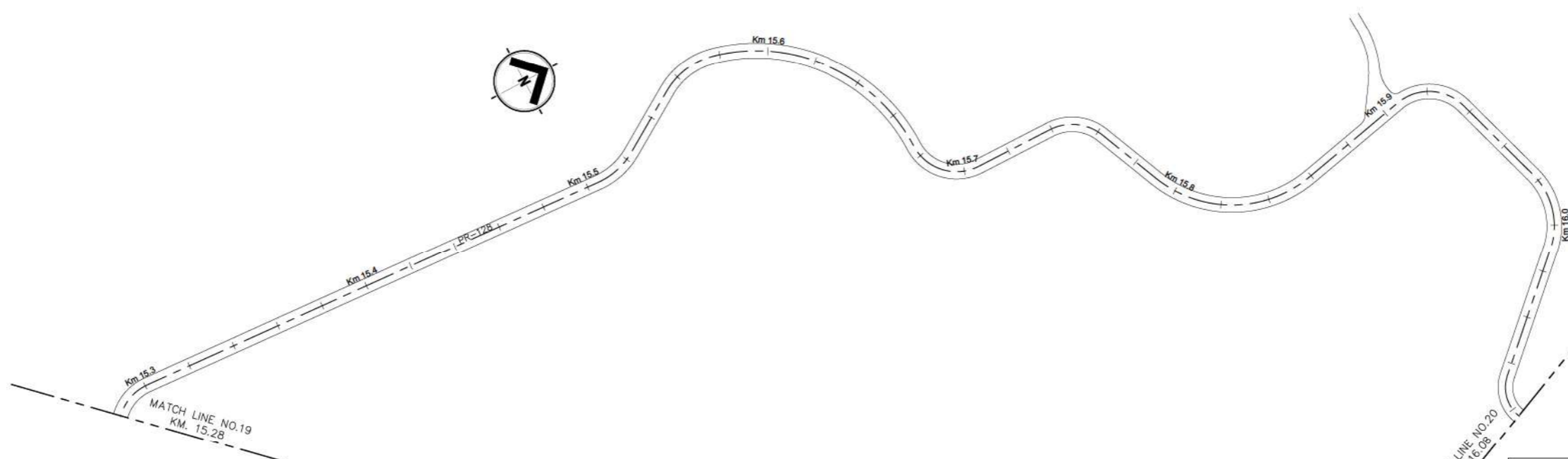
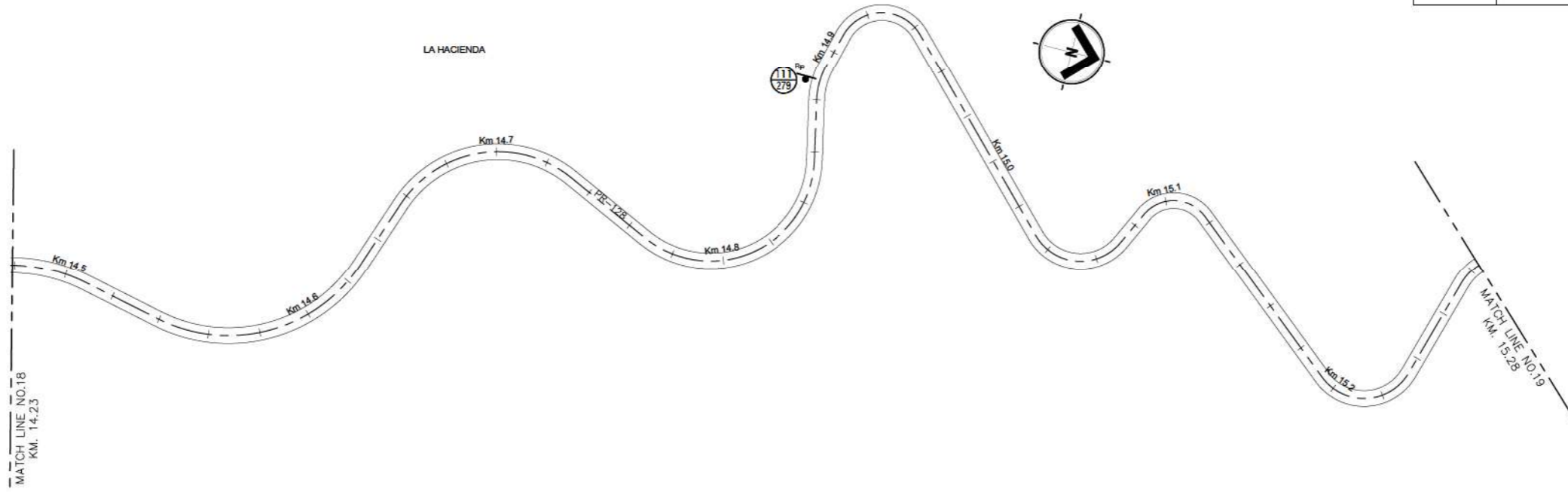
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	83	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

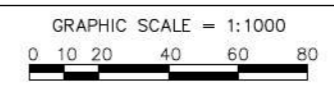
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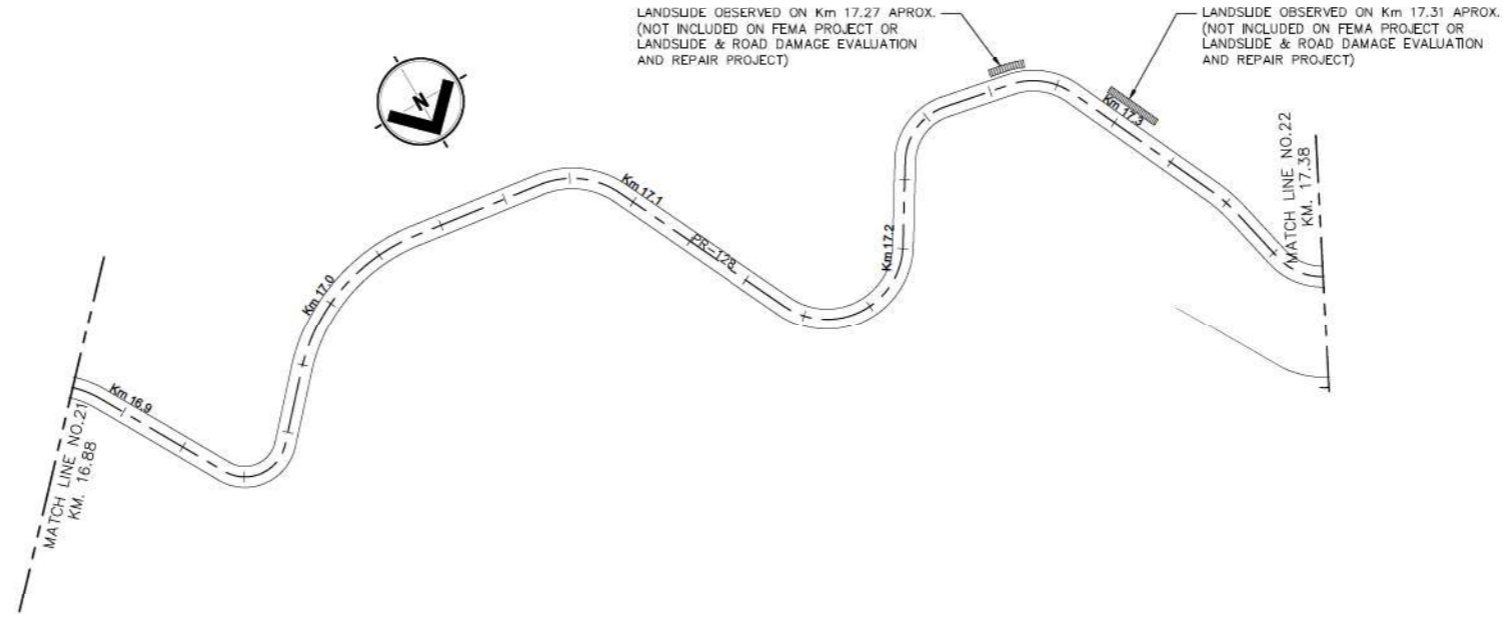
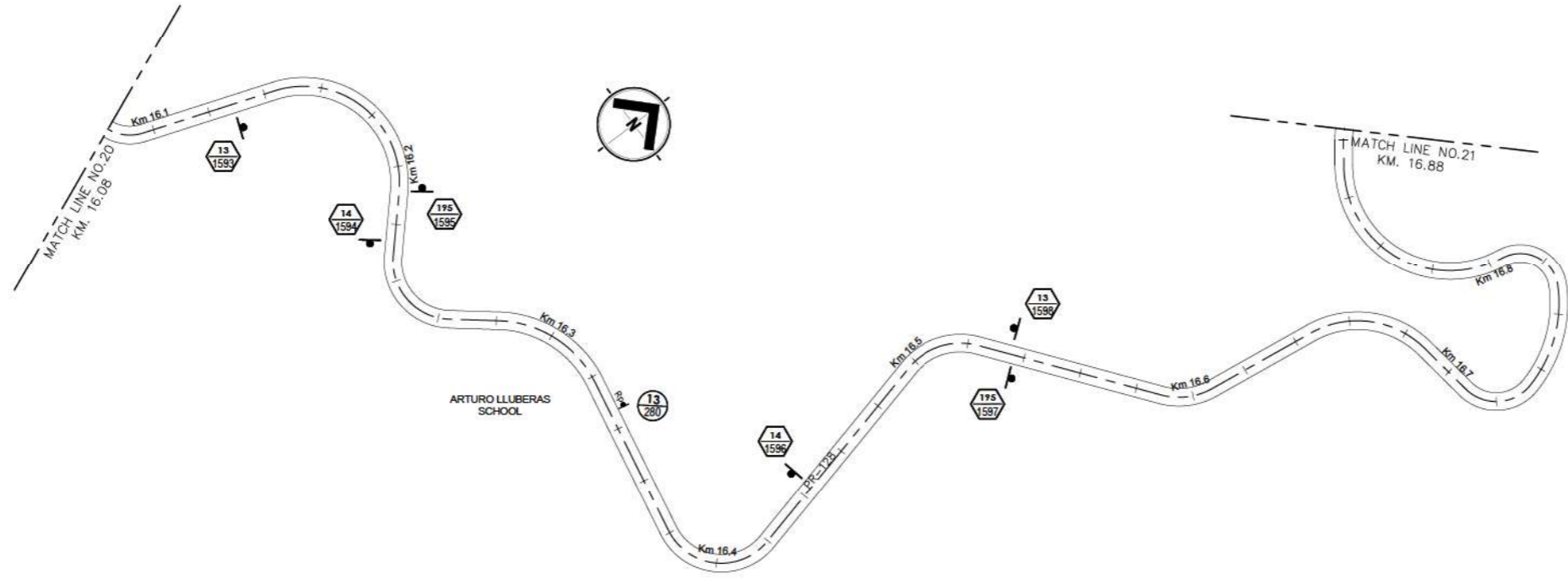
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	84	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

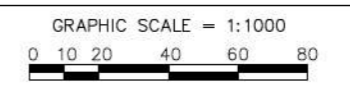
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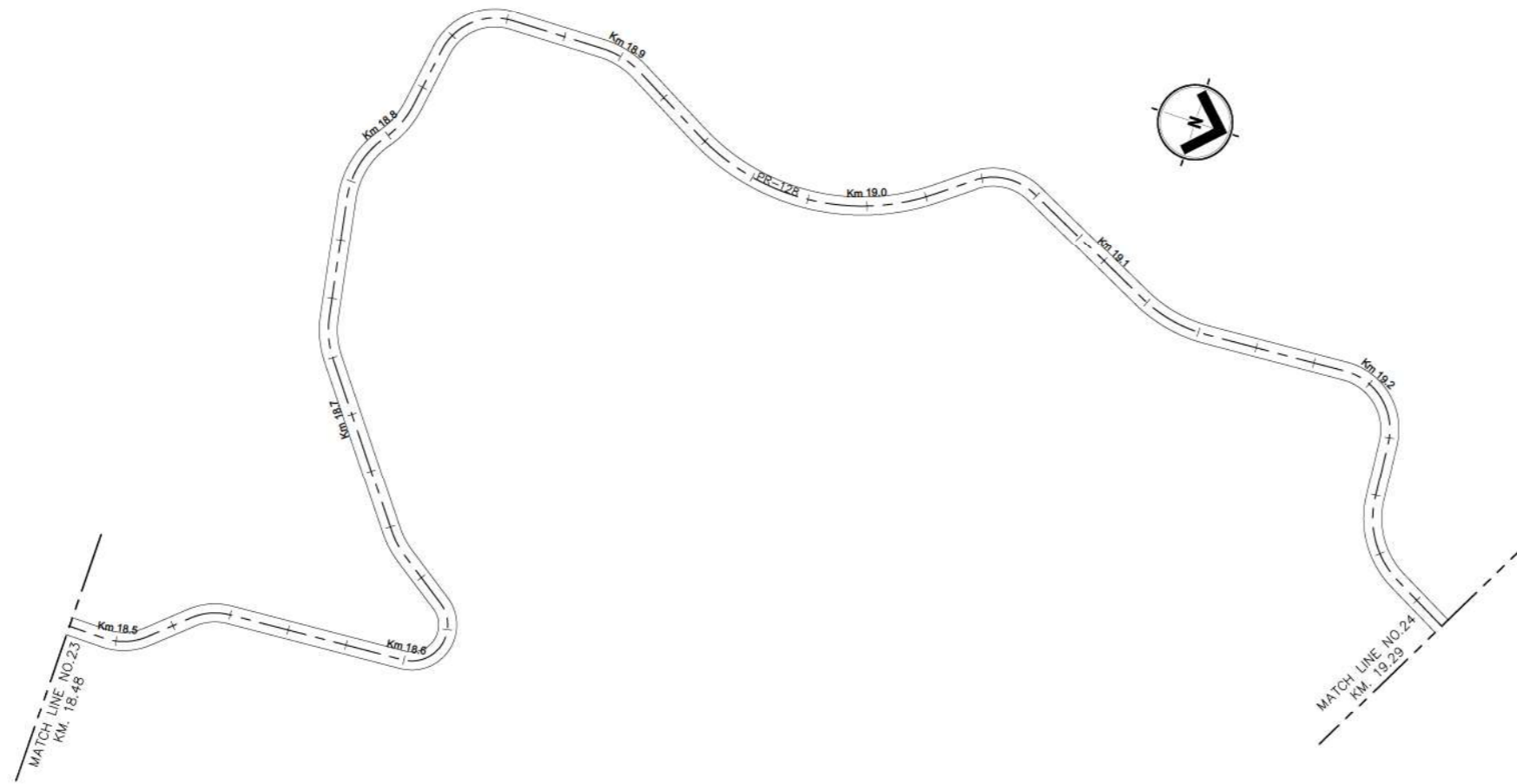
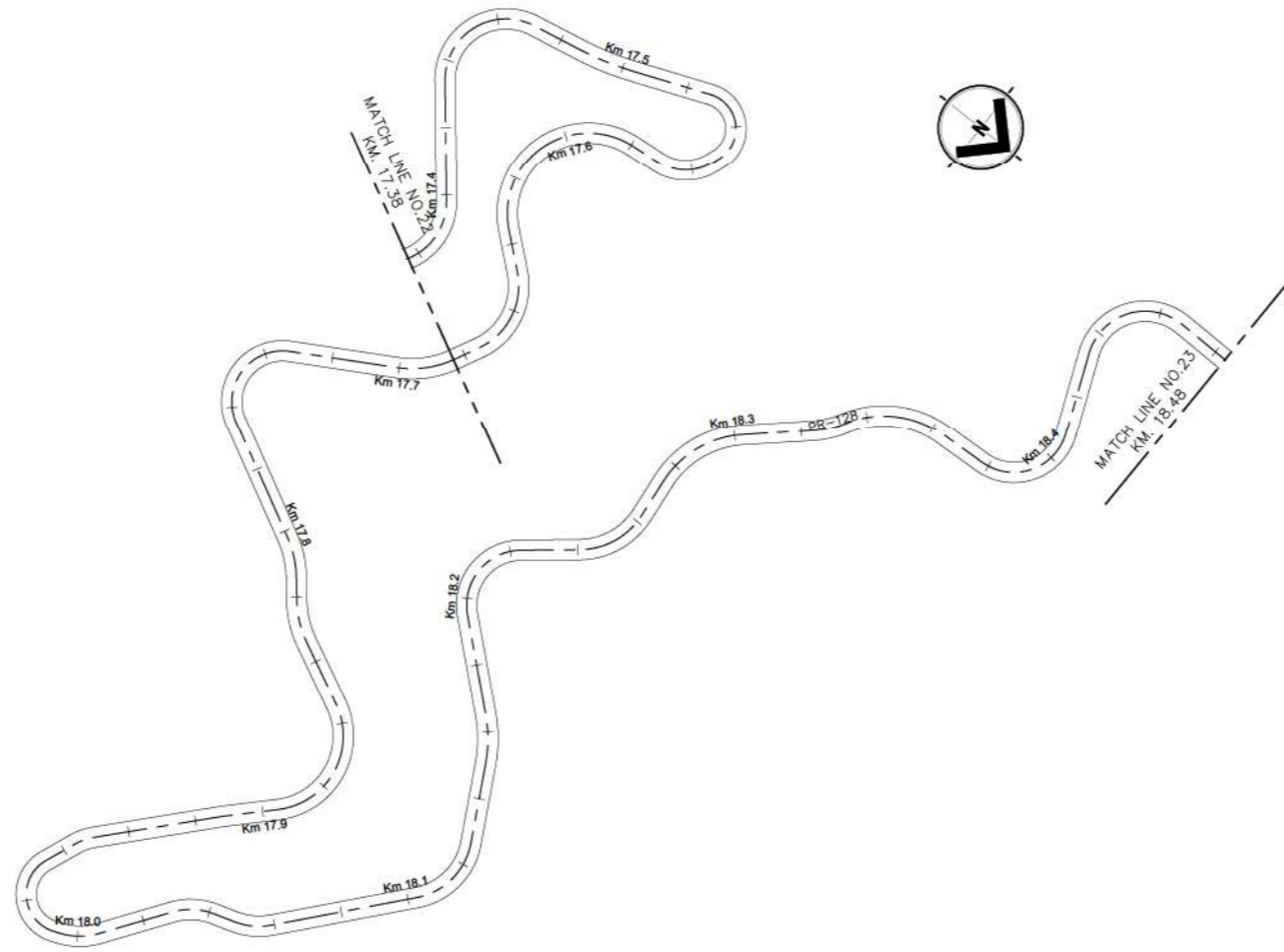
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R.- 128 FROM KM 0.0 TO KM 58.90
 YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	85	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

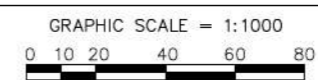
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

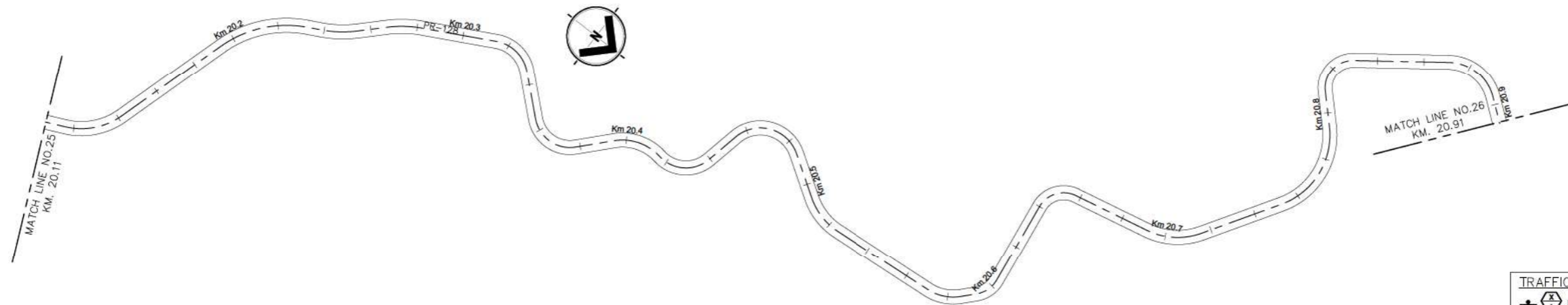
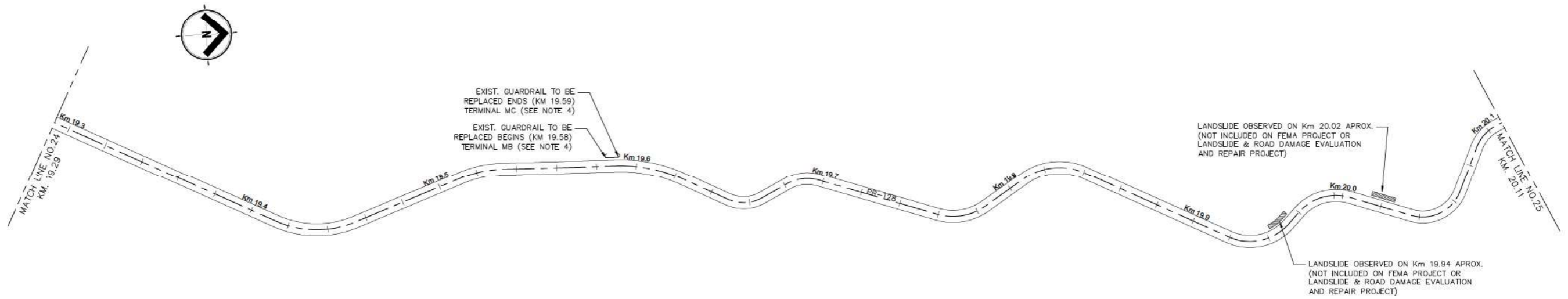
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	86	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

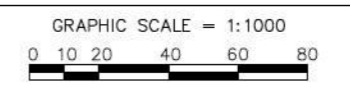
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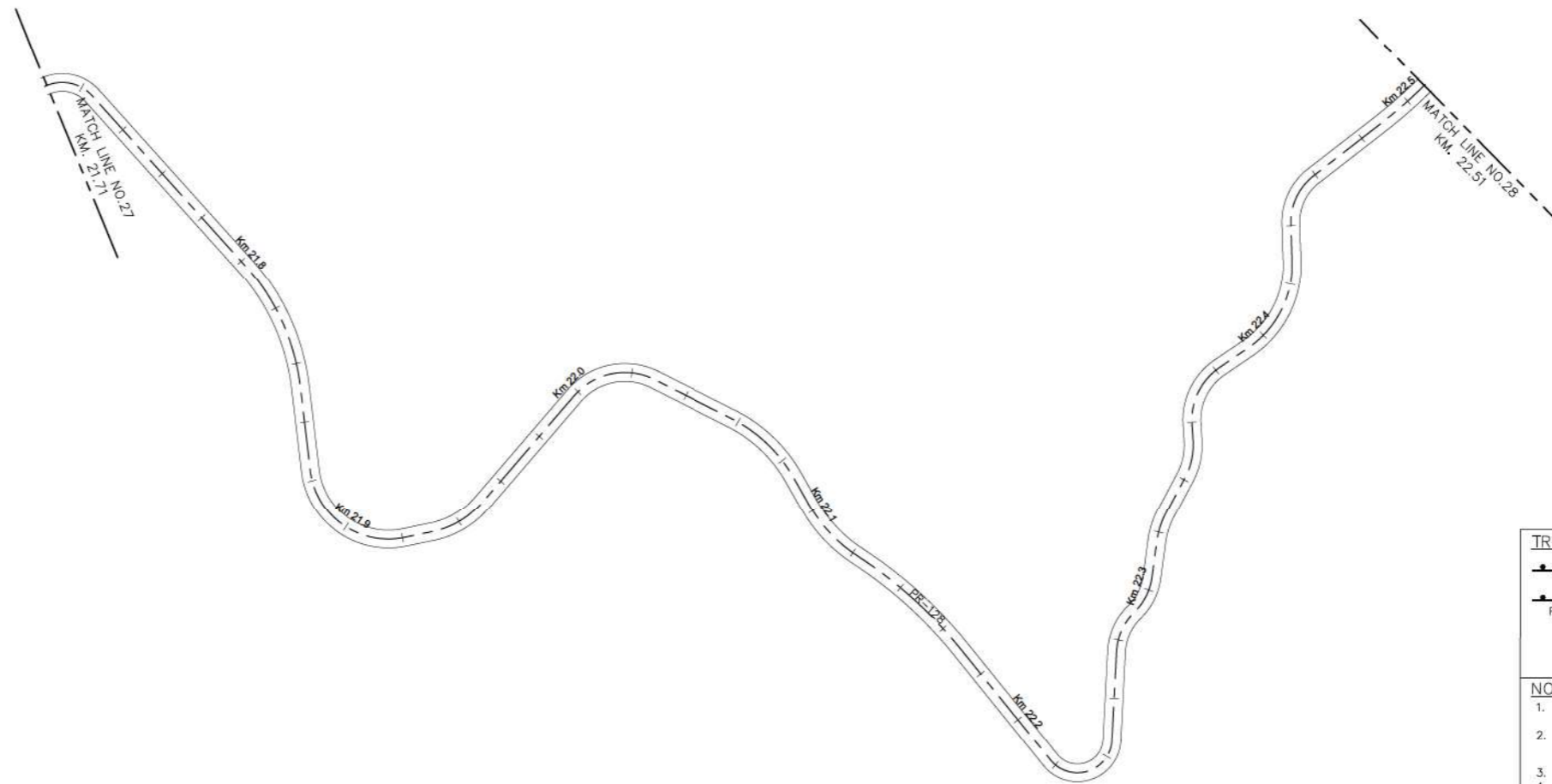
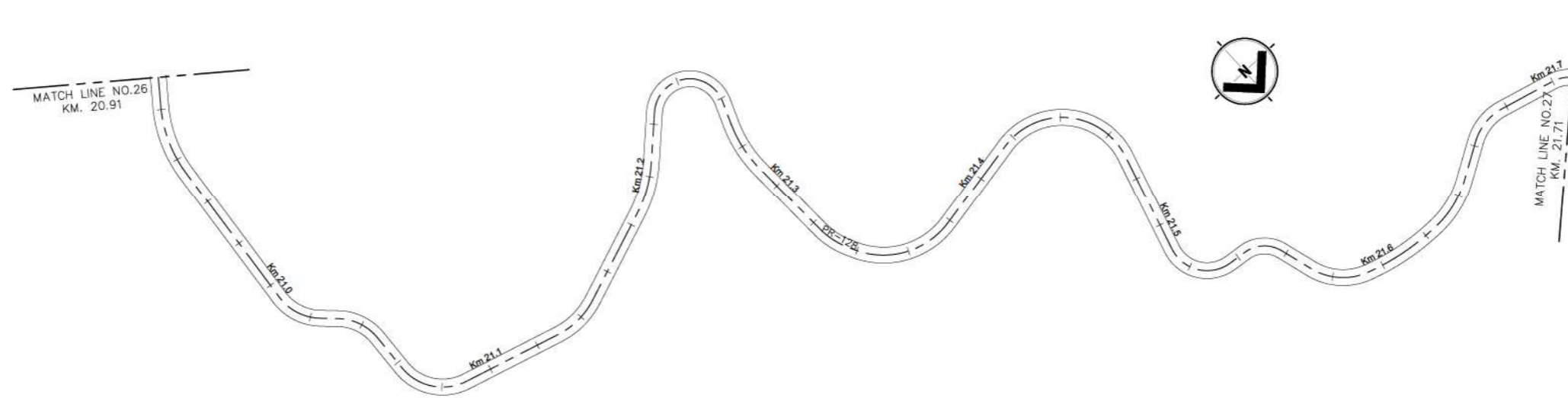
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	87	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

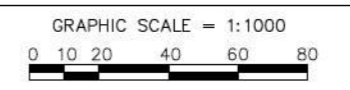
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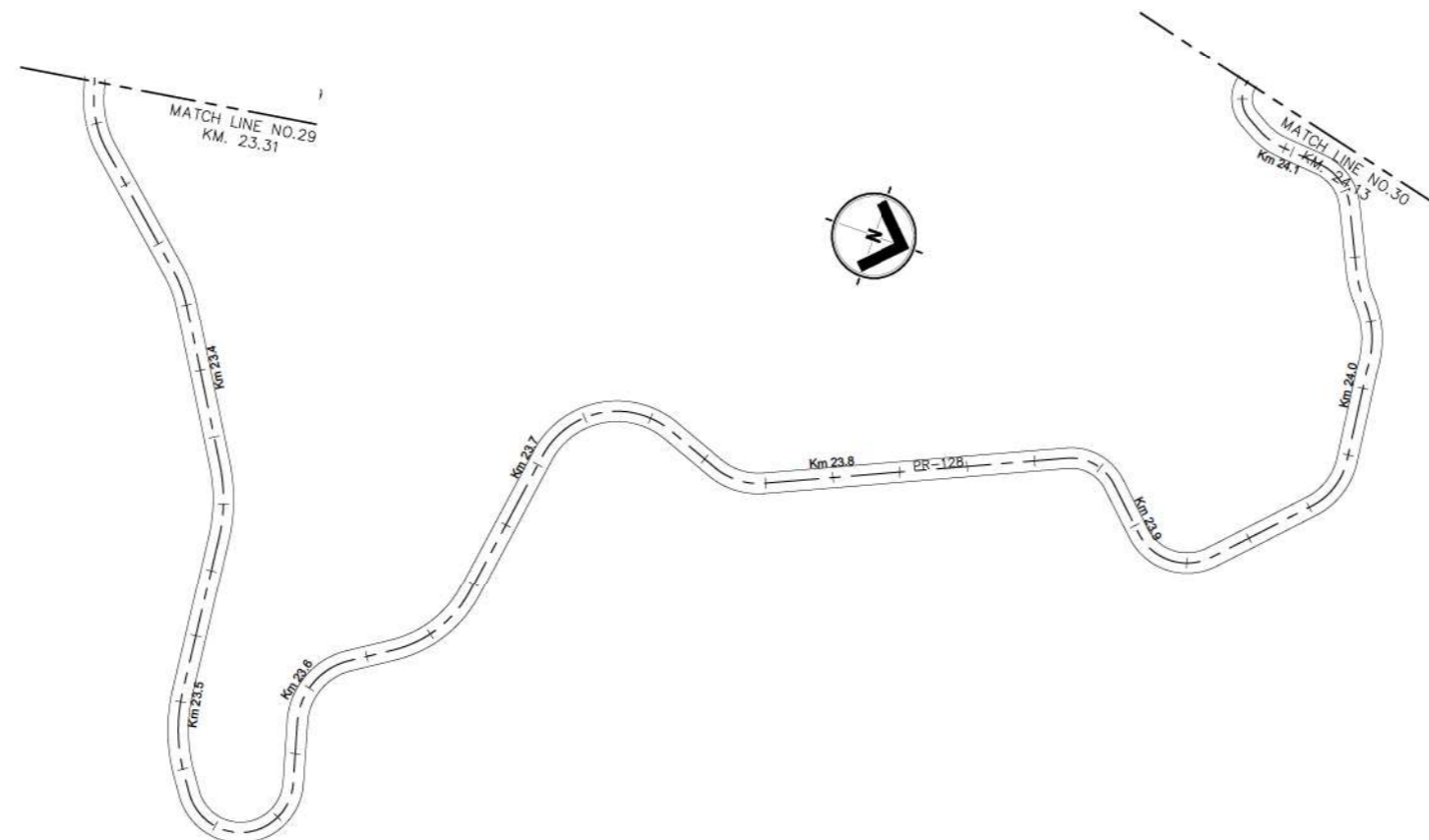
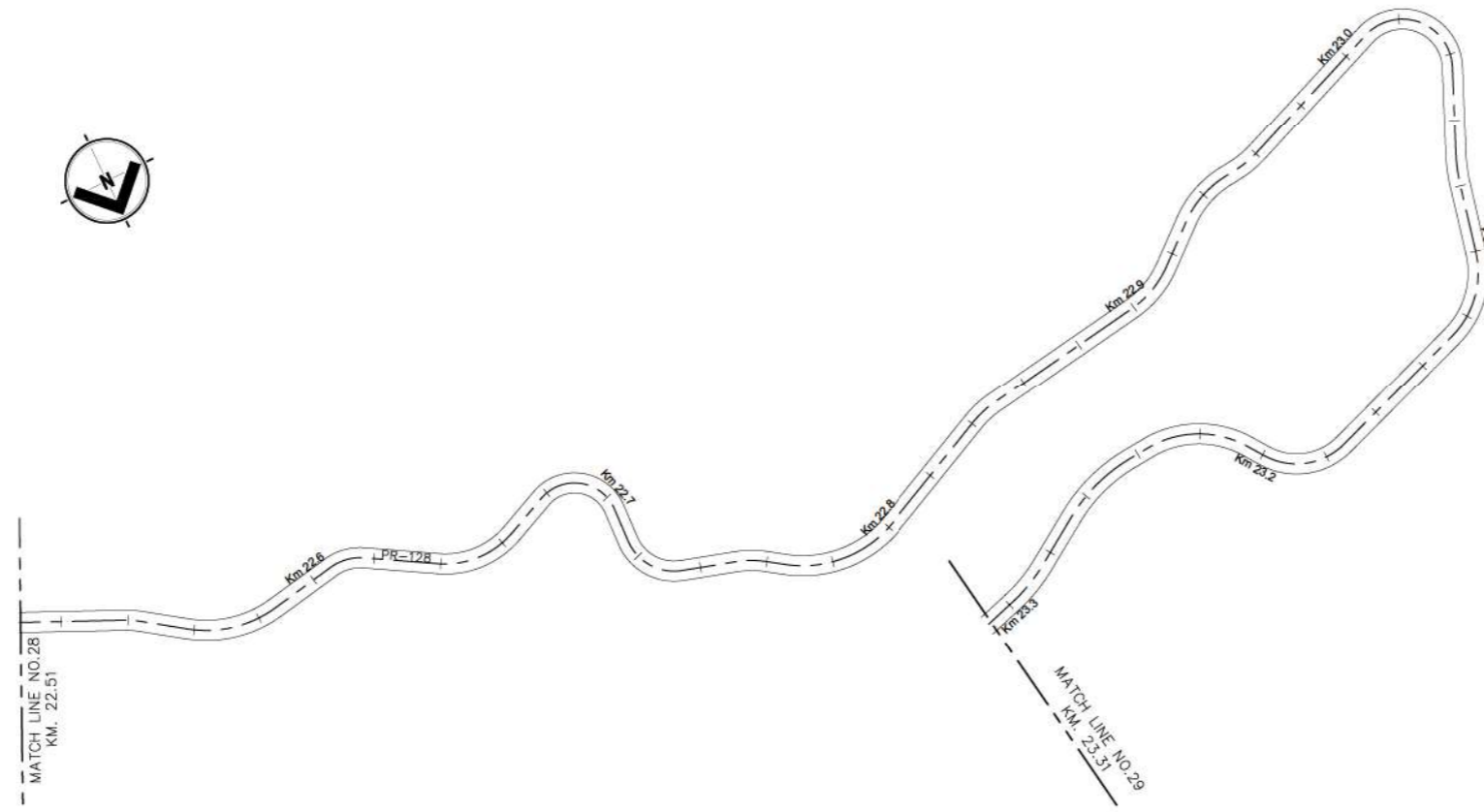
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	88	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

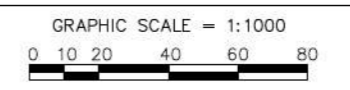
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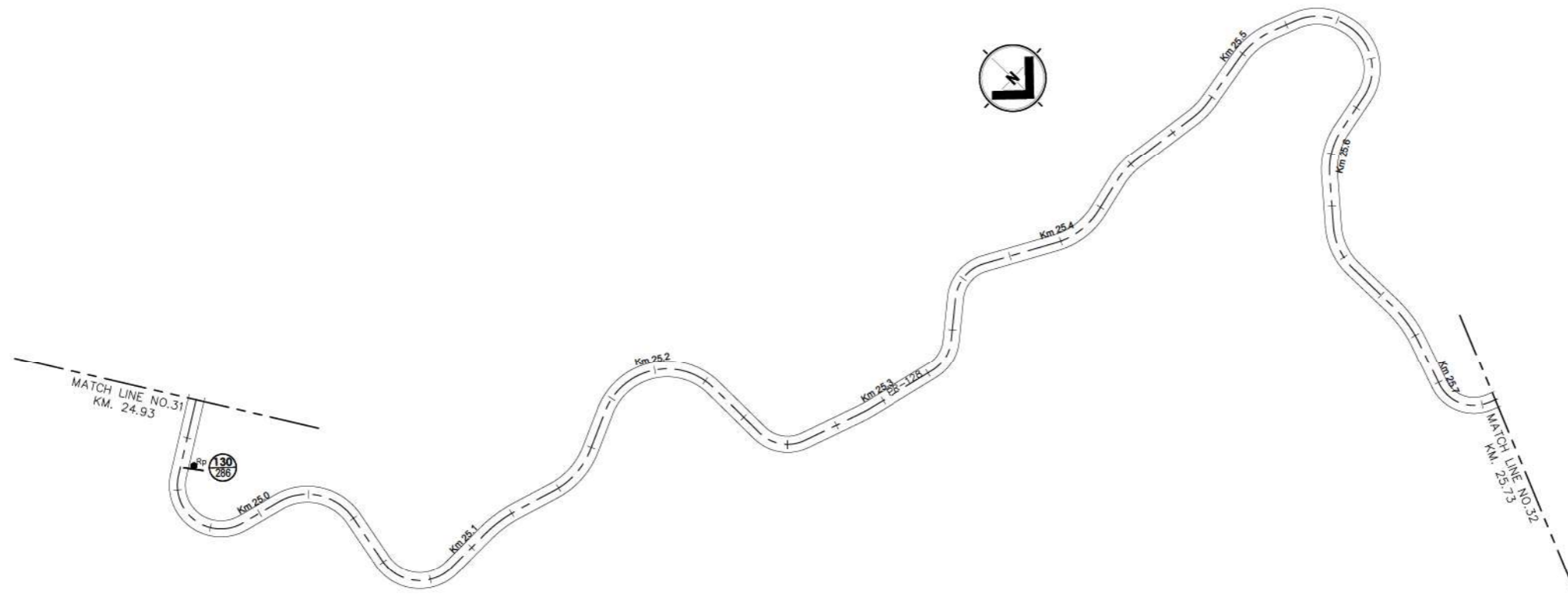
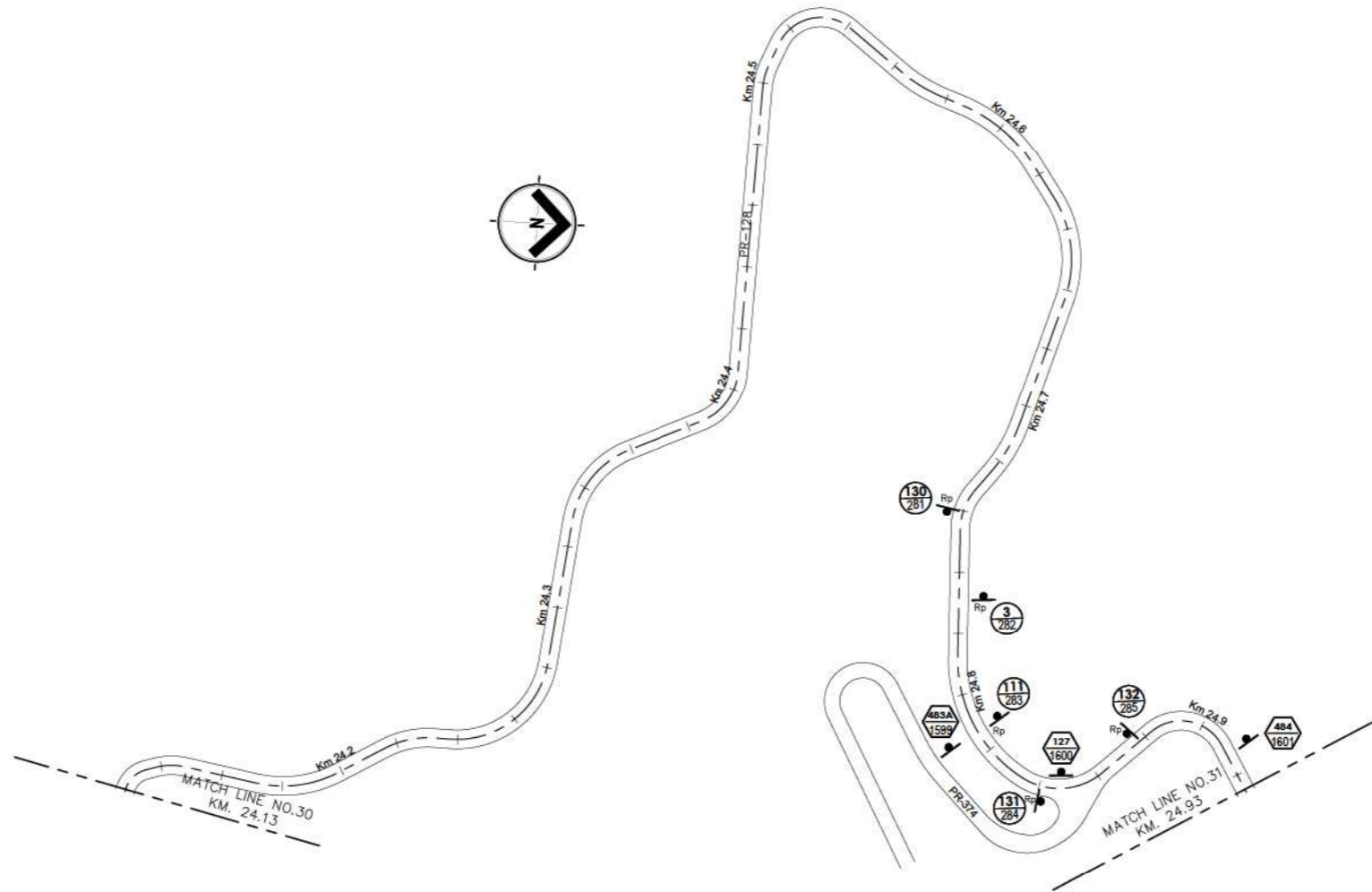
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	89	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

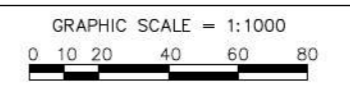
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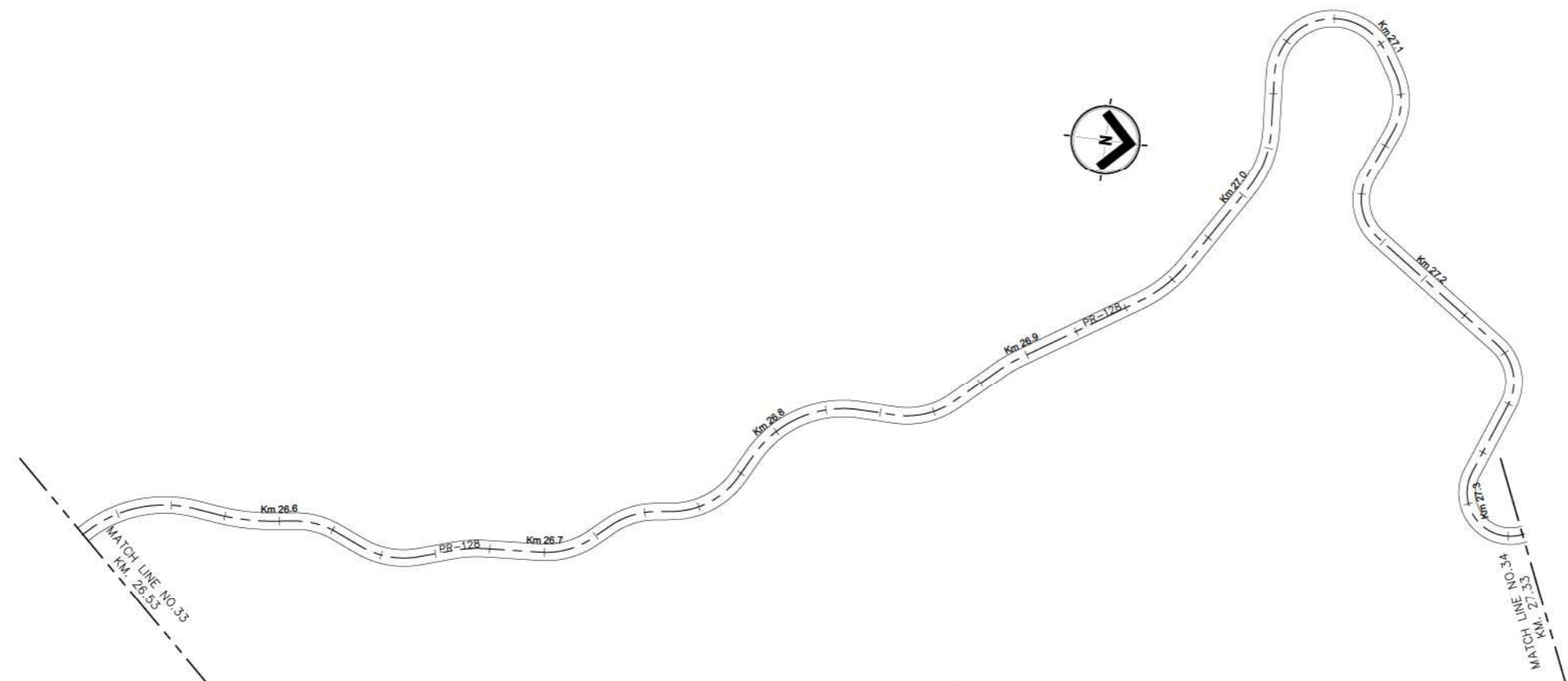
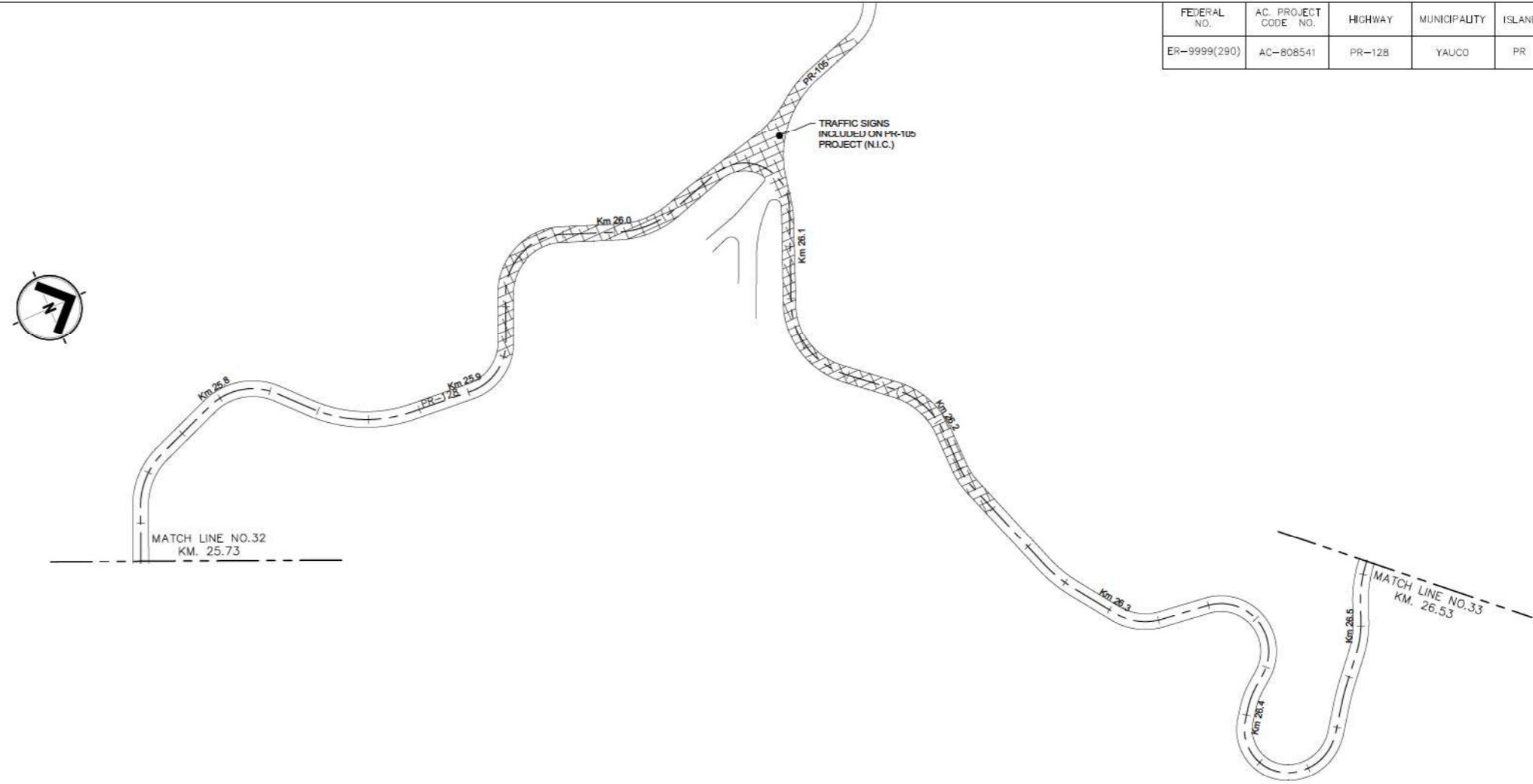
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	90	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

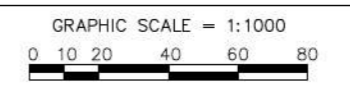
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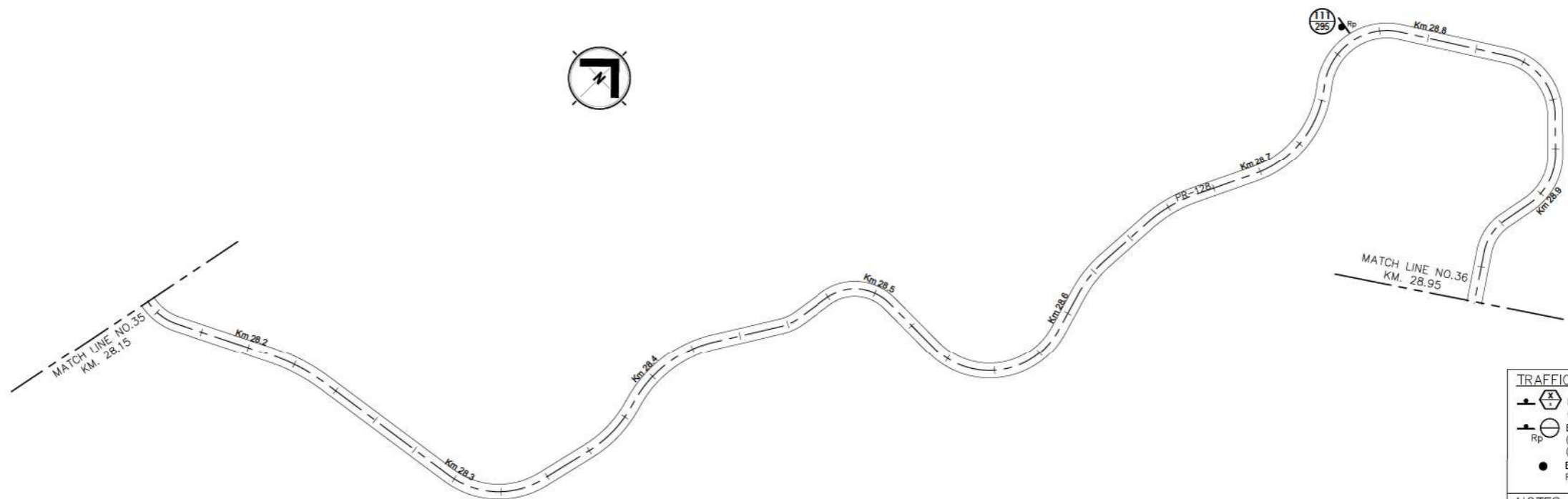
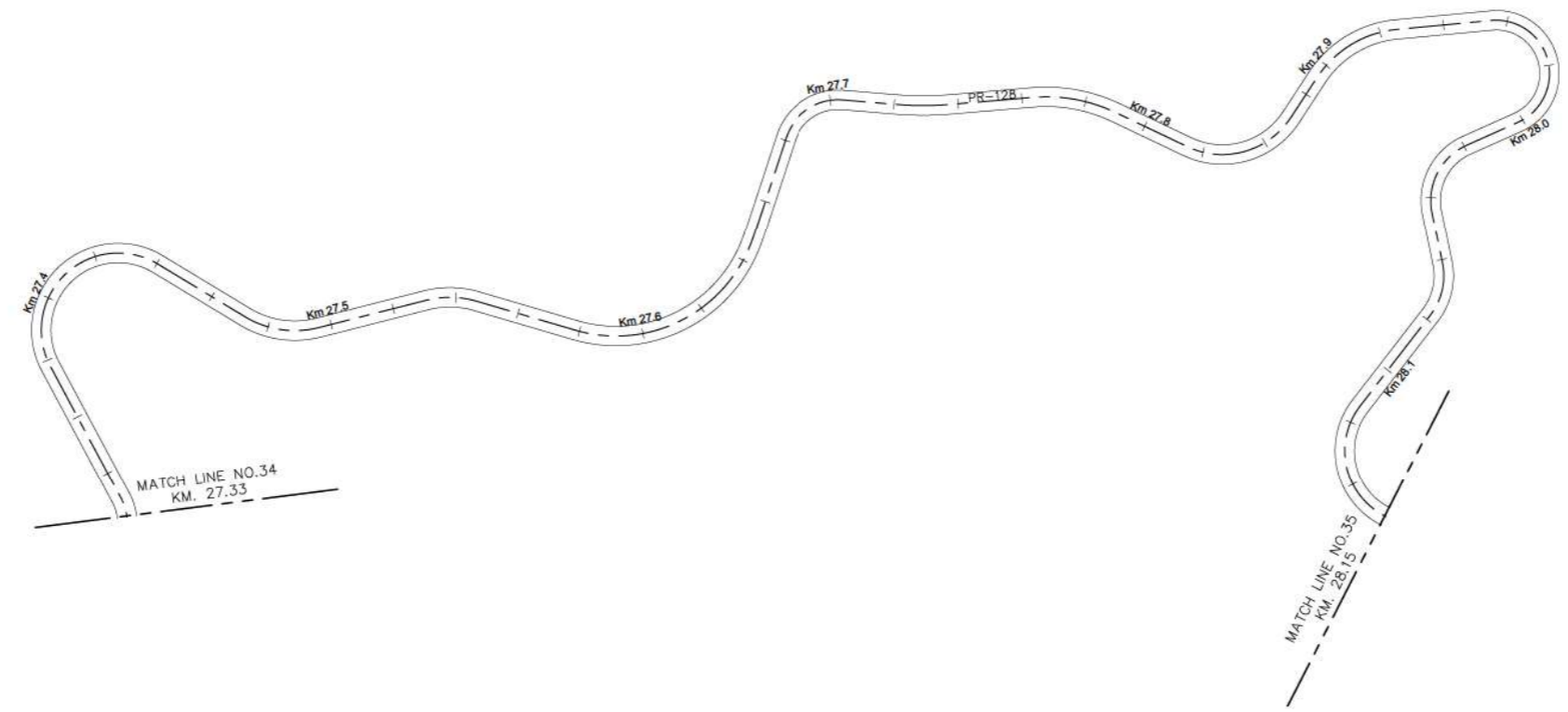
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	91	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

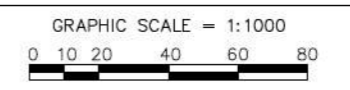
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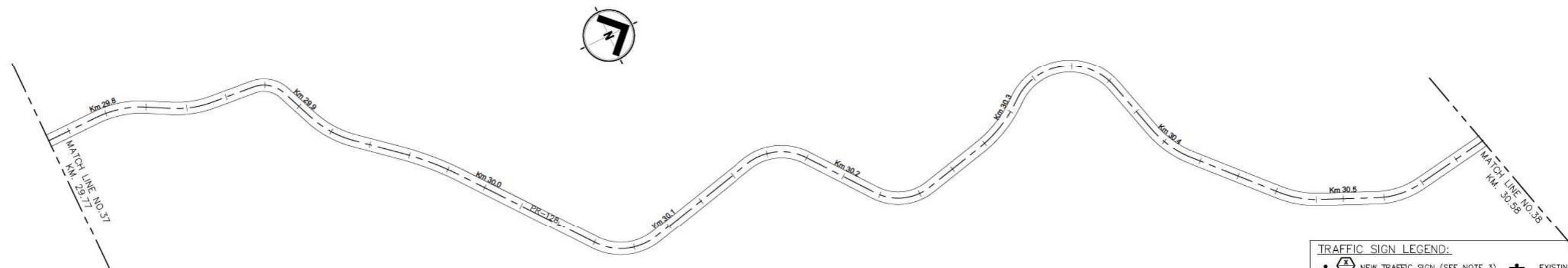
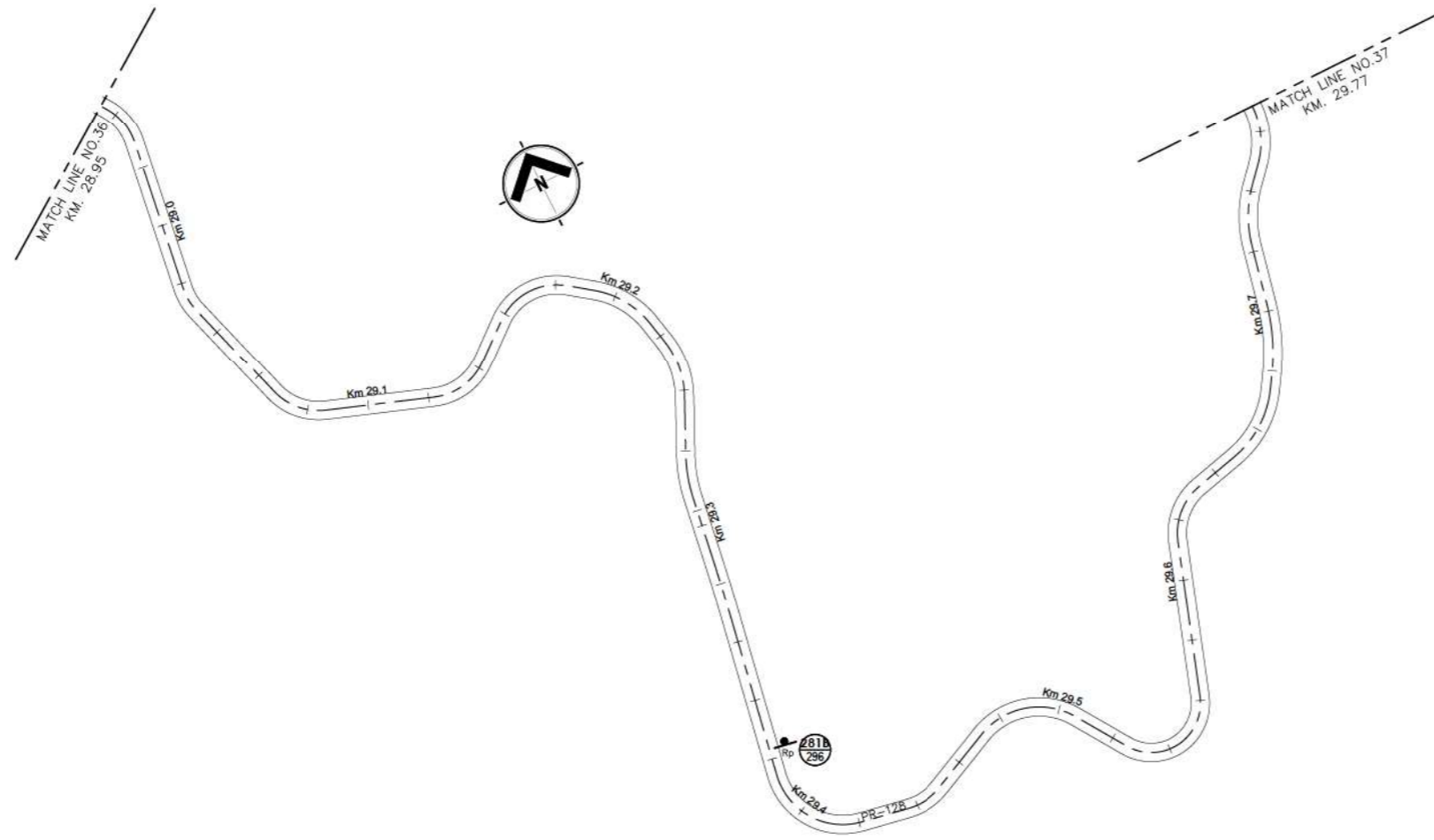
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	92	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

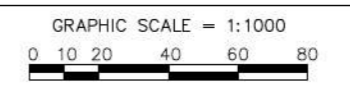
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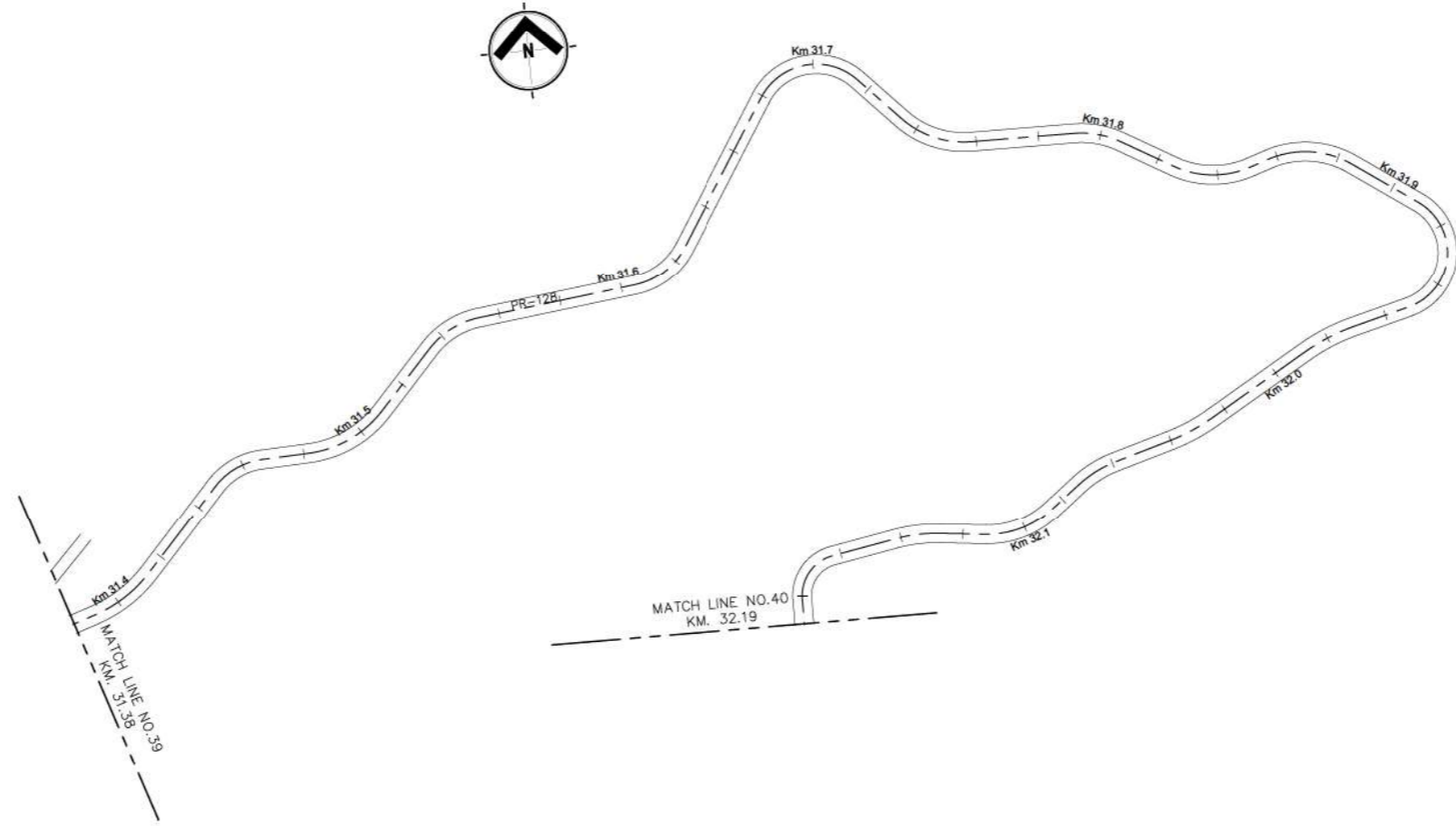
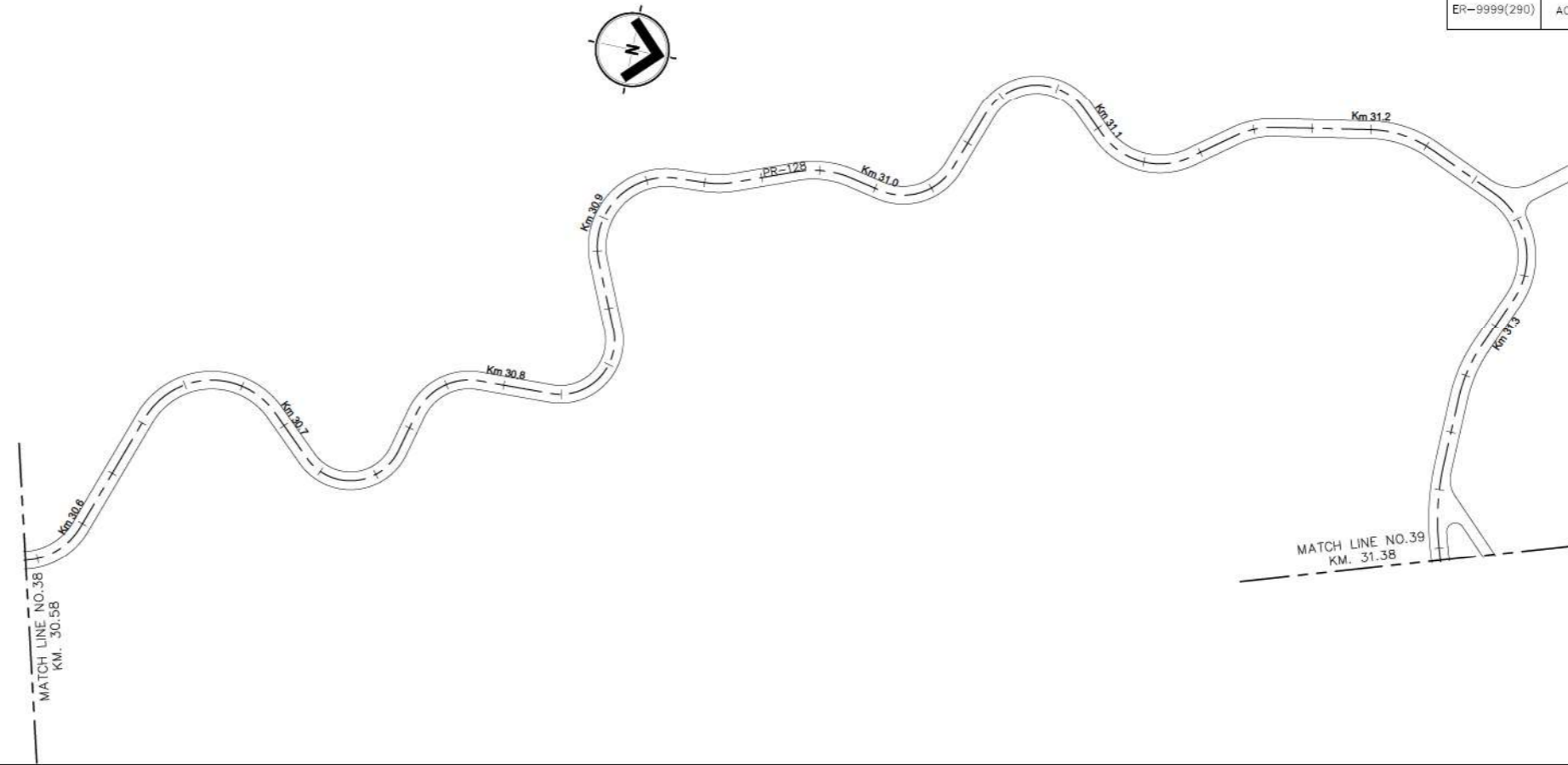
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

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FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	93	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

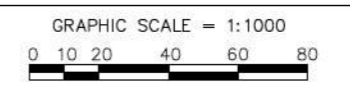
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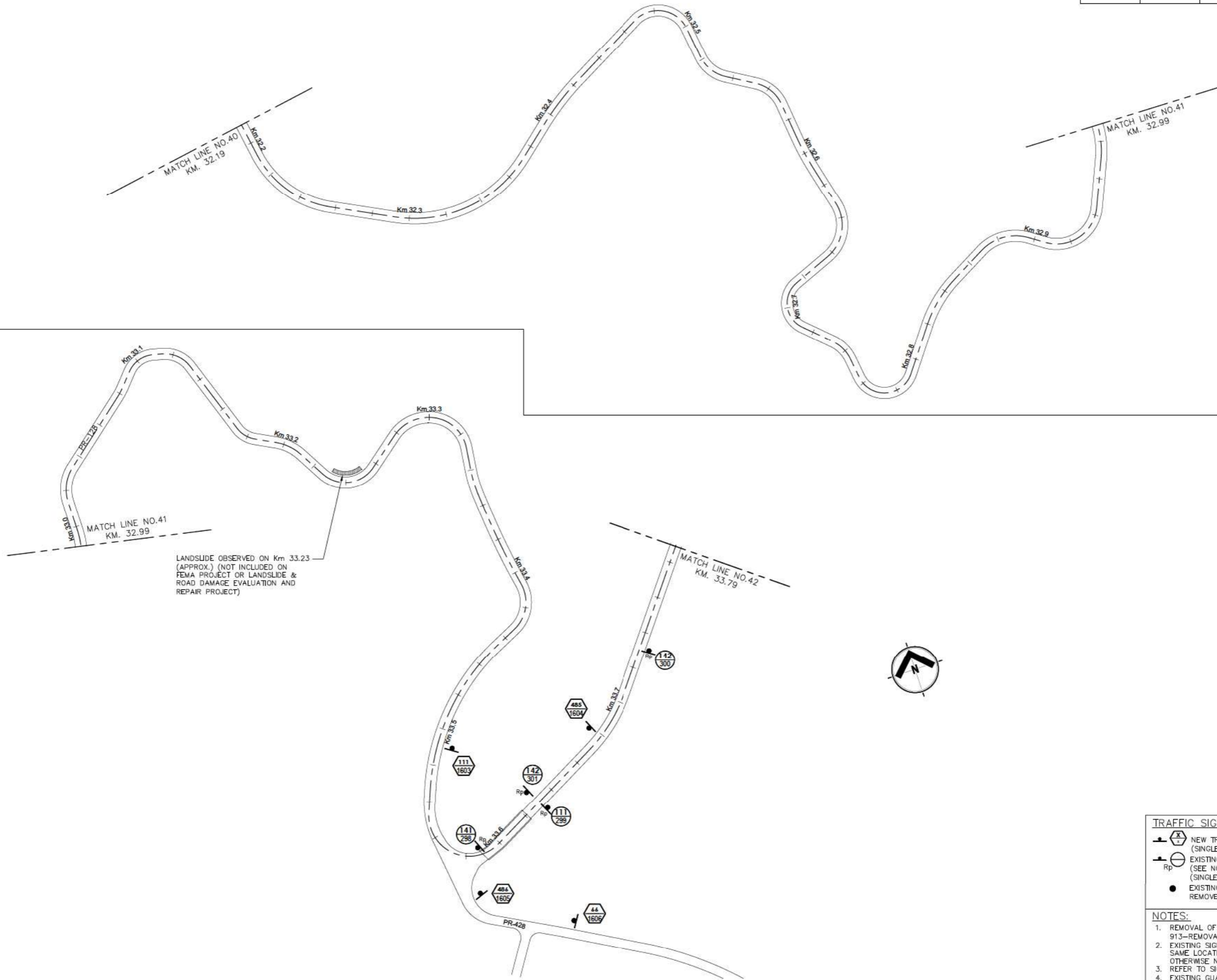
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	94	285



LANDSLIDE OBSERVED ON Km 33.23 (APPROX.) (NOT INCLUDED ON FEMA PROJECT OR LANDSLIDE & ROAD DAMAGE EVALUATION AND REPAIR PROJECT)

TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
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 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

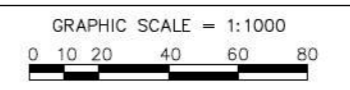
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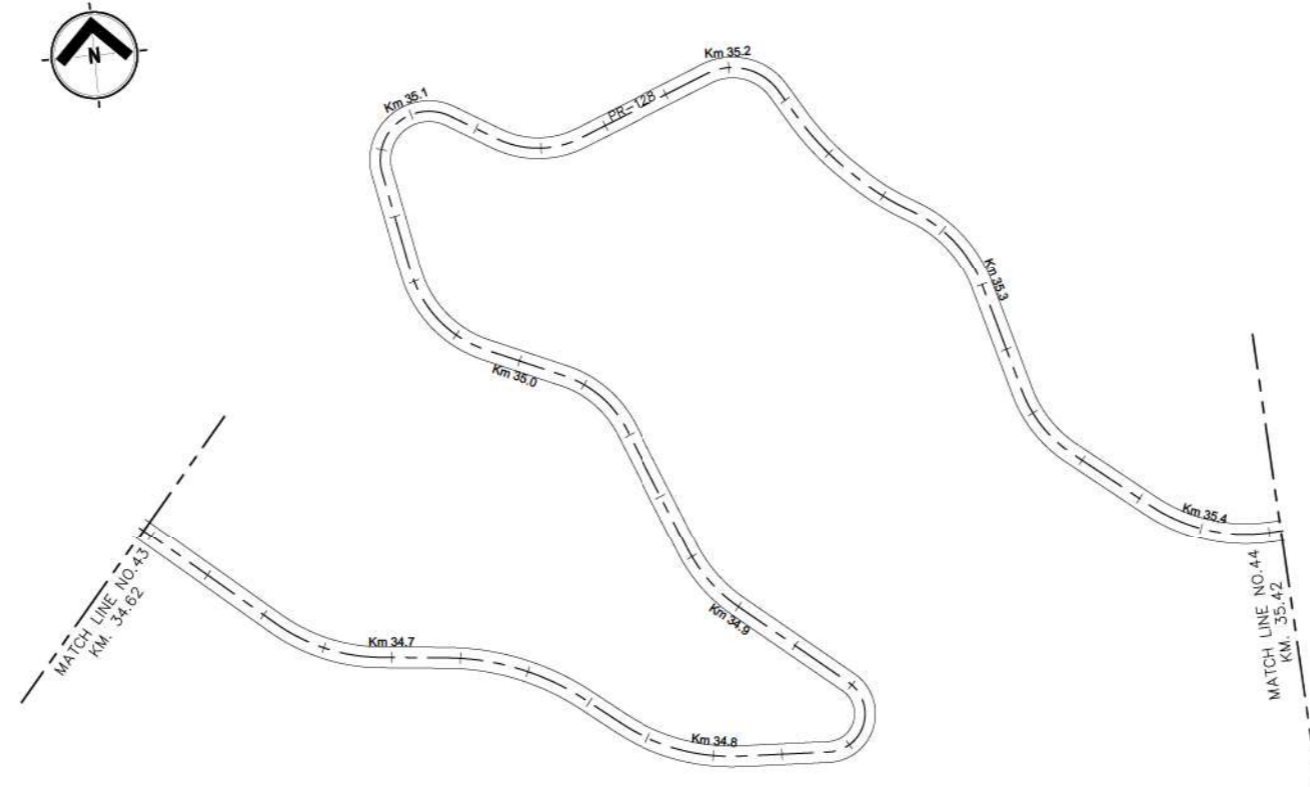
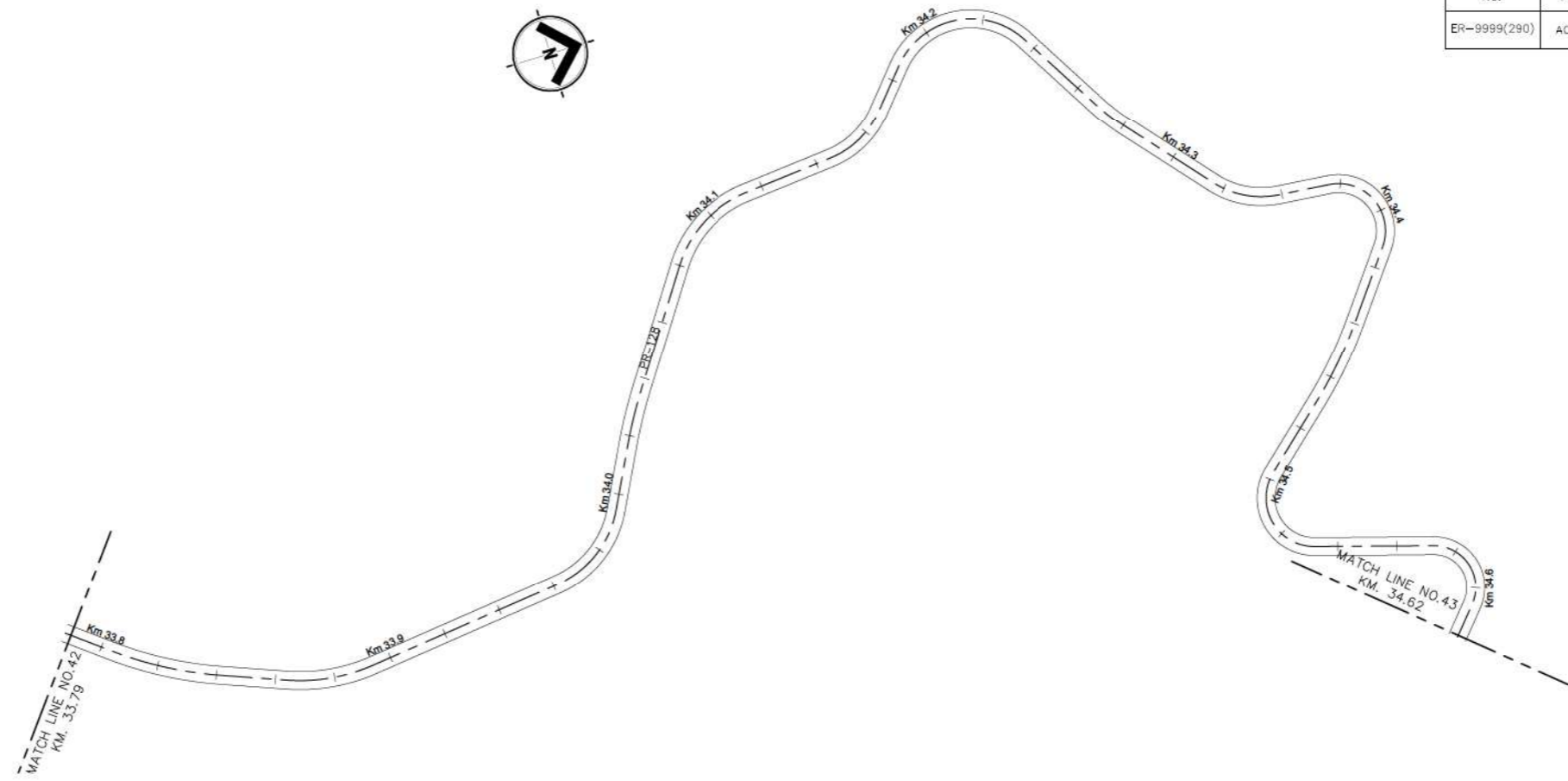
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	95	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
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CHECK	##	##
FINAL CHECK	##	##

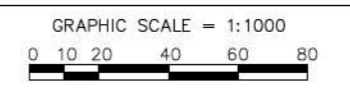
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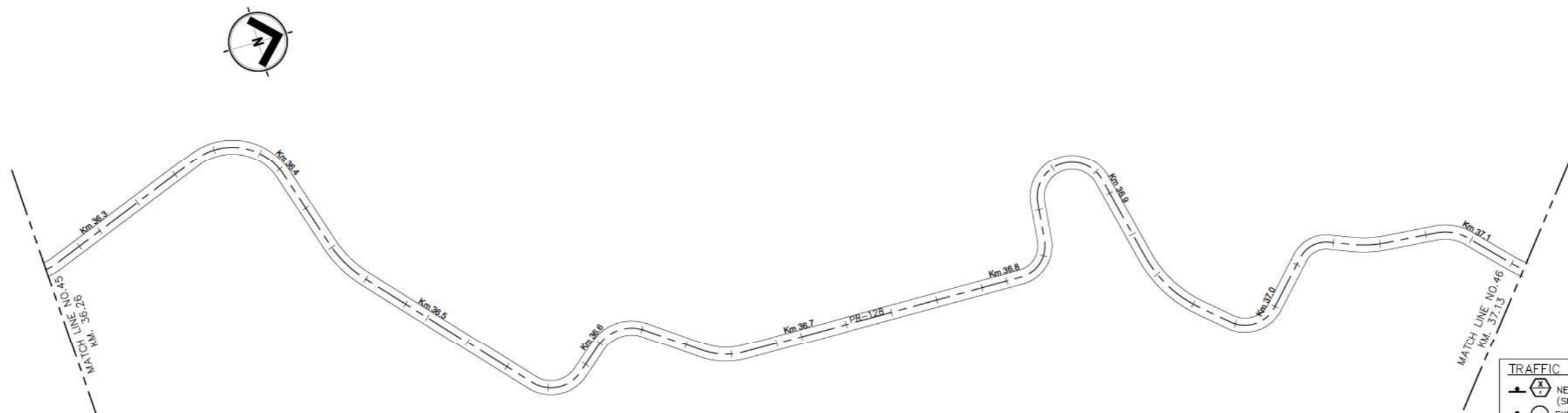
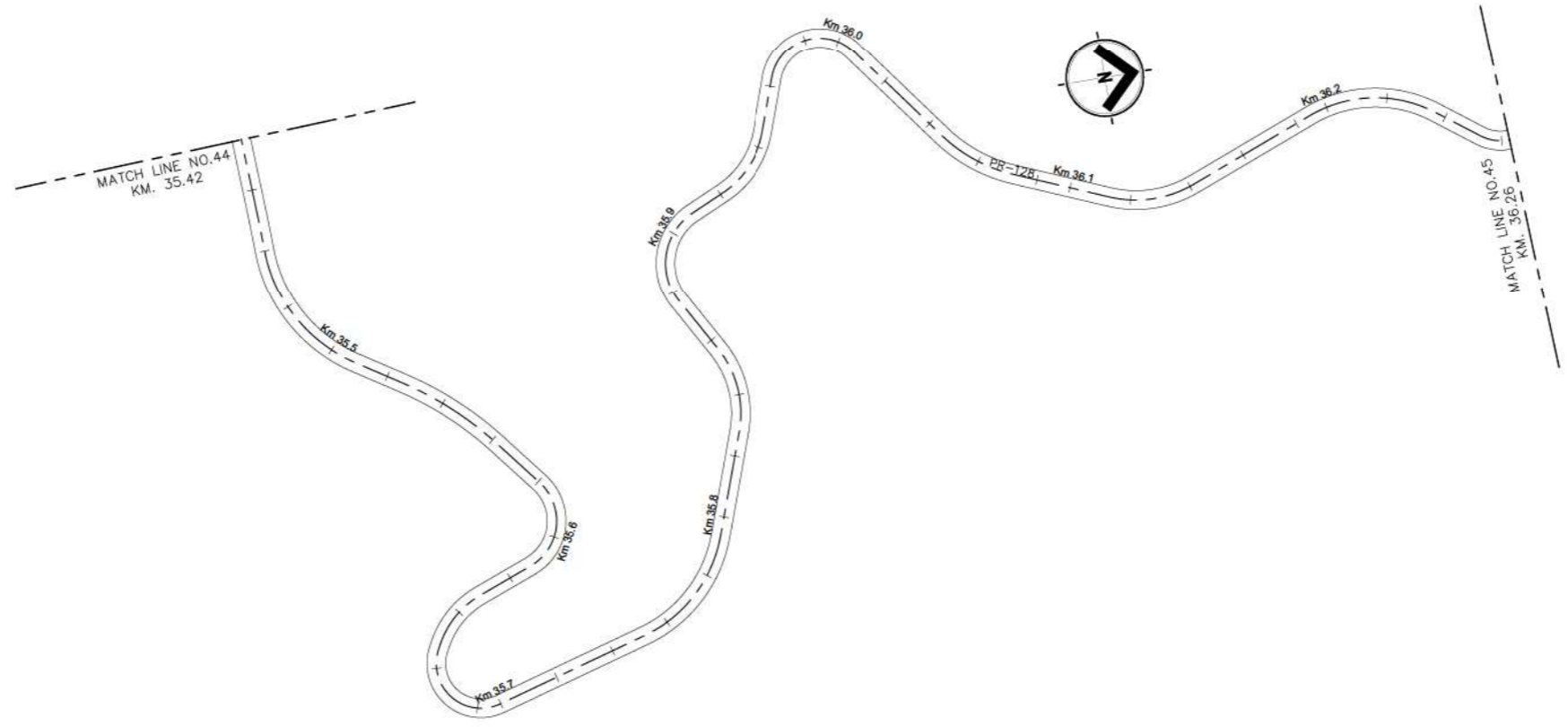
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	96	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

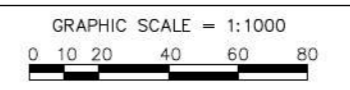
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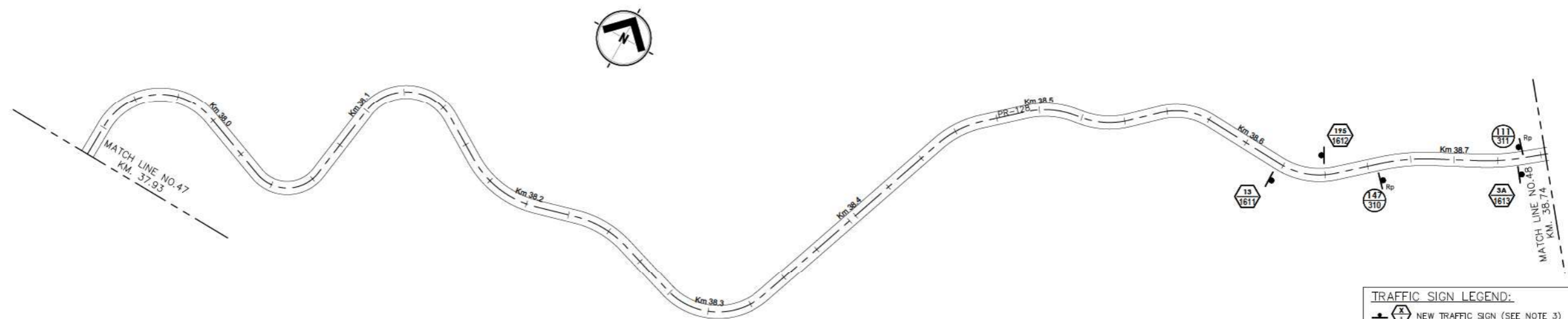
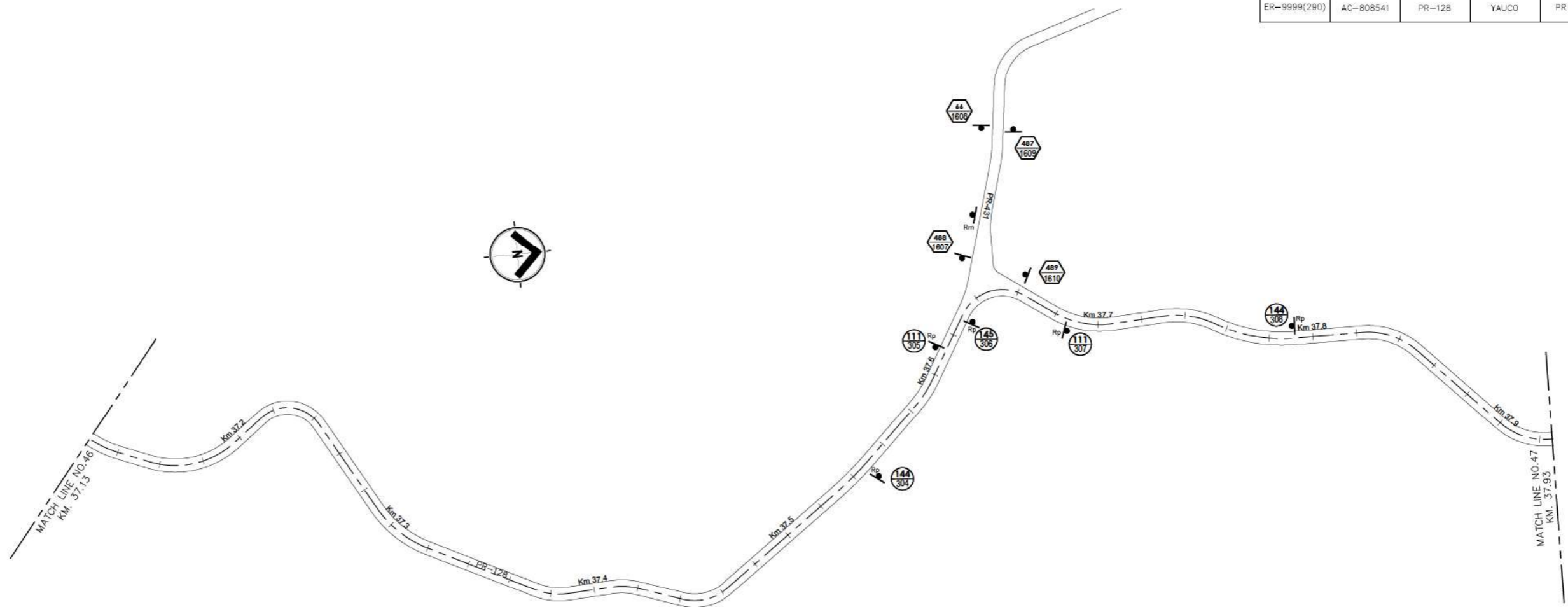
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	97	285



TRAFFIC SIGN LEGEND:

NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)	EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)	EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

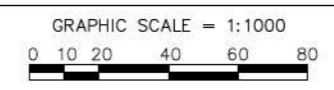
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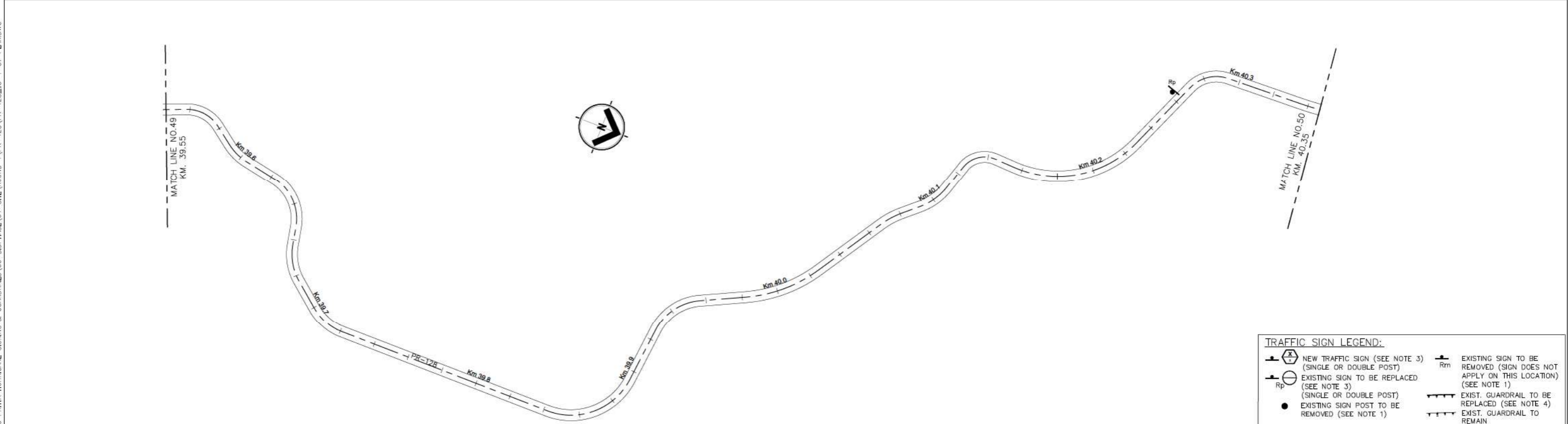
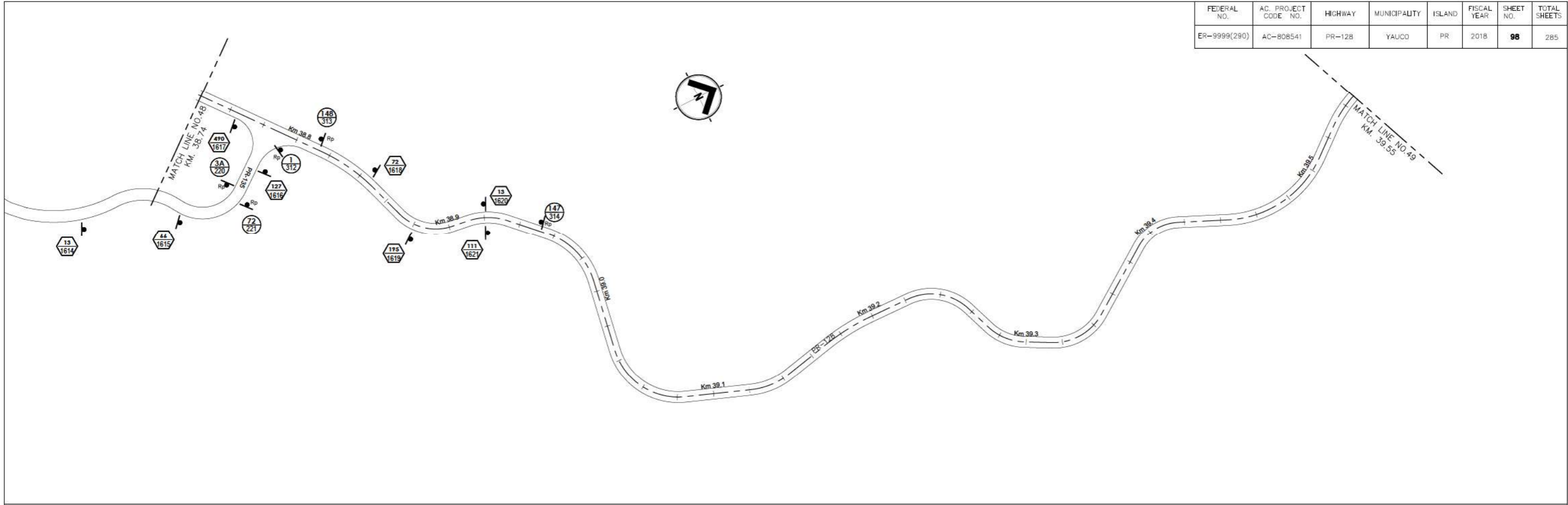
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	98	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
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DRAWING	##	##
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FINAL CHECK	##	##

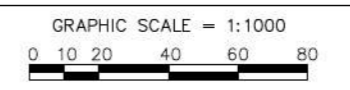
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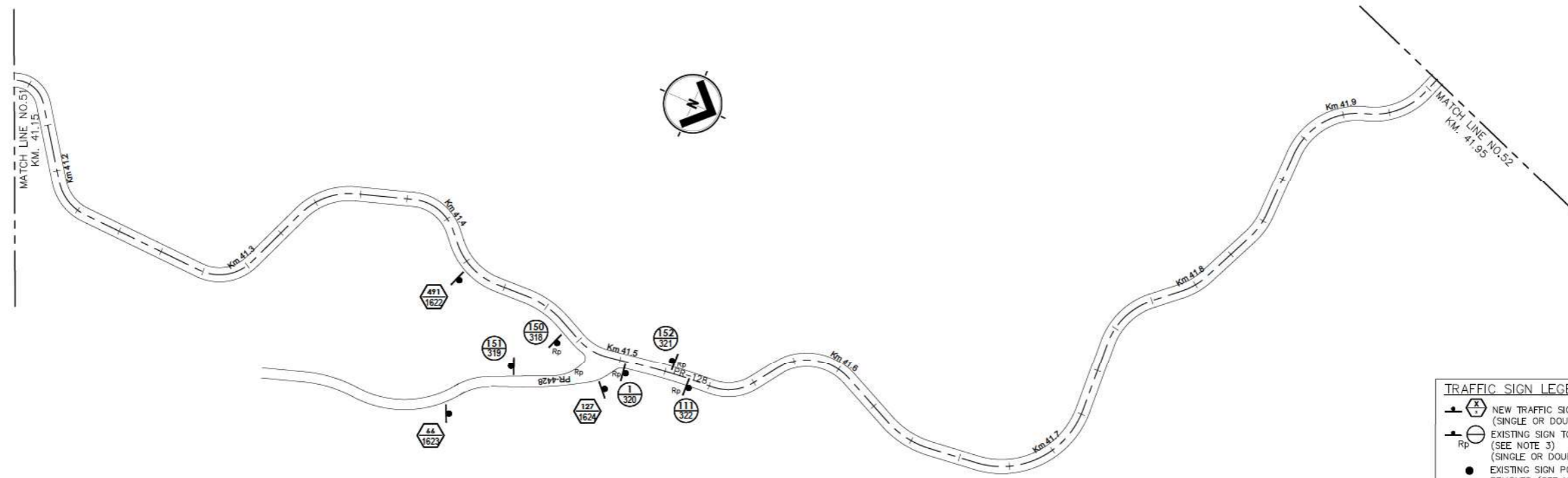
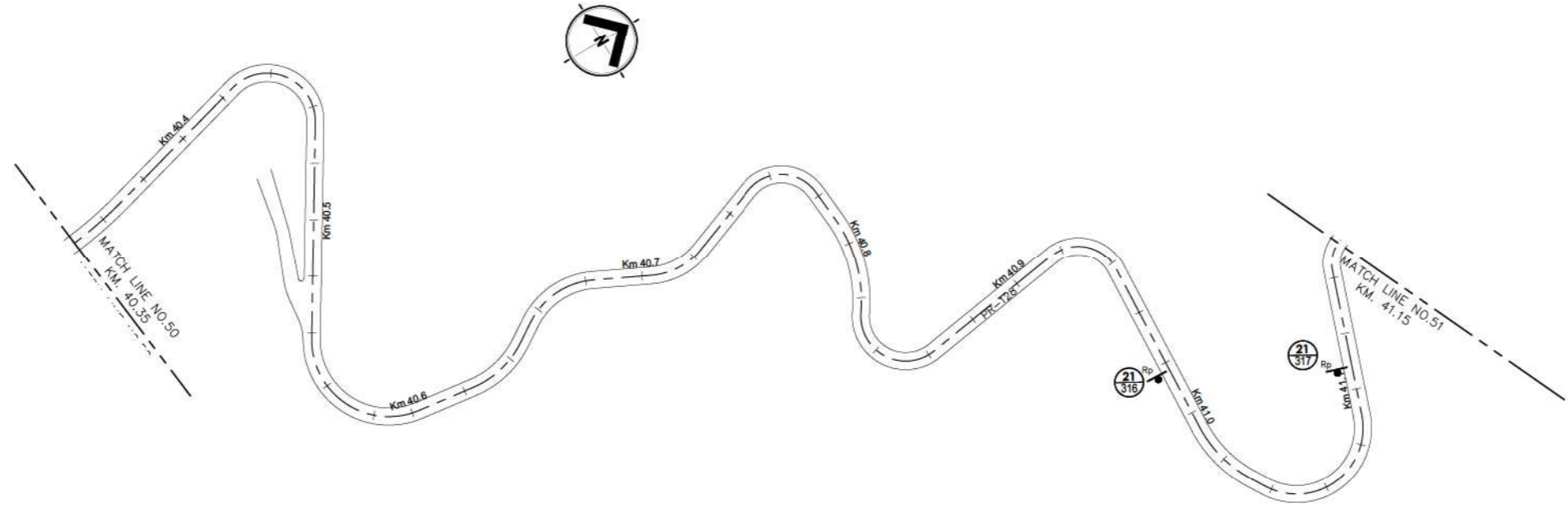
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	99	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

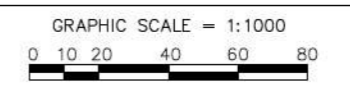
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 DESIGN # # # # #
 DRAWING # # # # #
 TRACED # # # # #
 CHECK # # # # #
 FINAL CHECK # # # # #



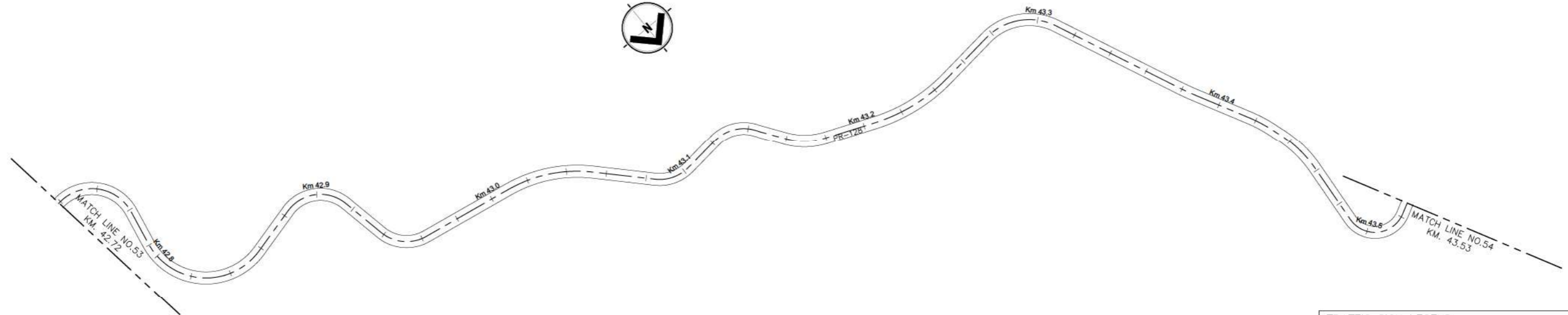
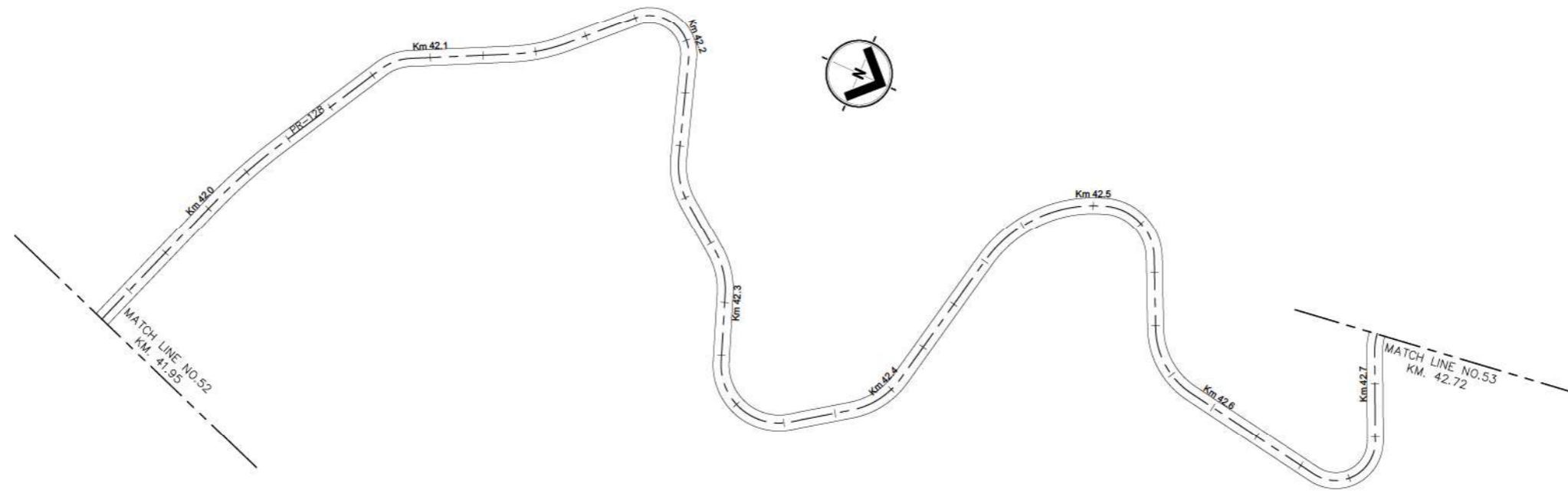
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R.- 128 FROM KM 0.0 TO KM 58.90
 YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	100	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

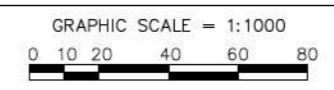
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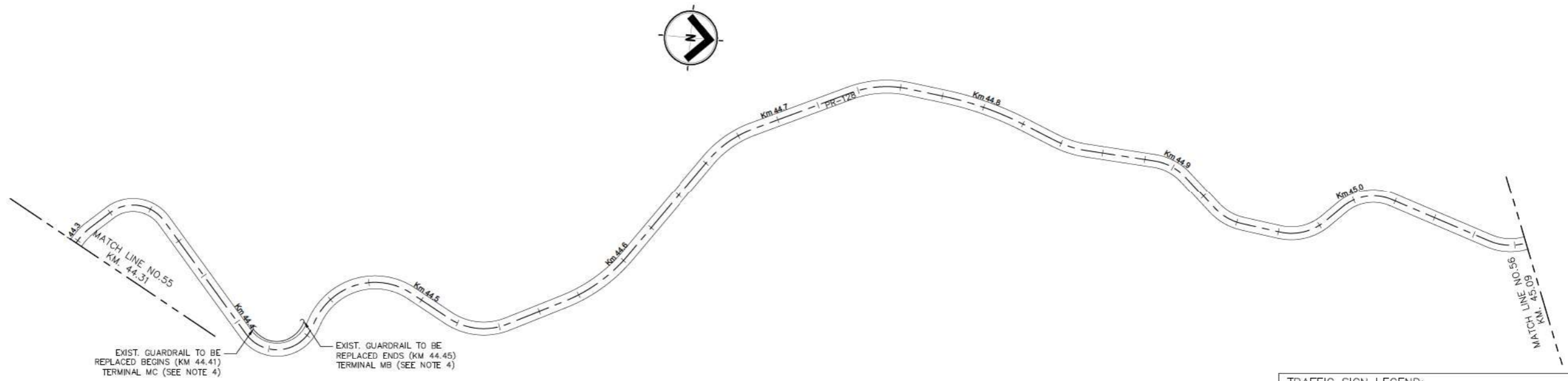
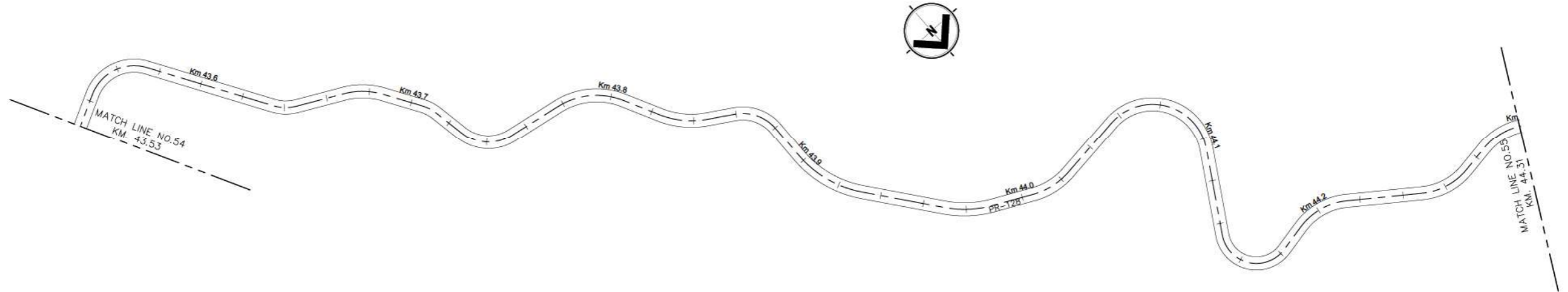
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	101	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXIST. GUARDRAIL TO REMAIN		

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
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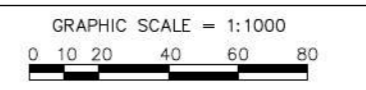
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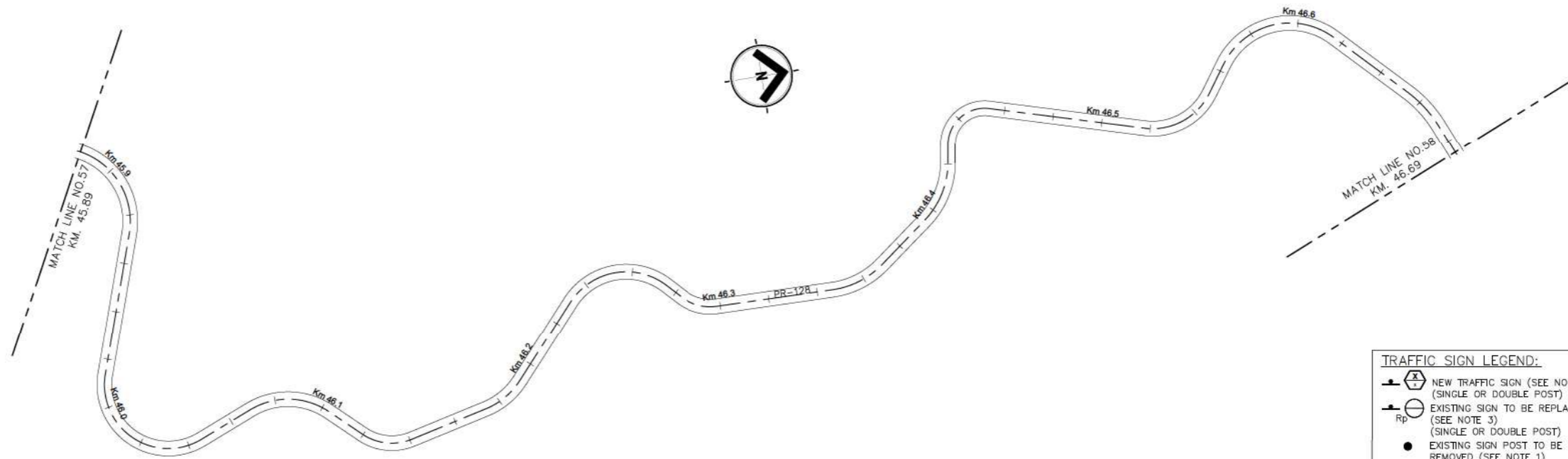
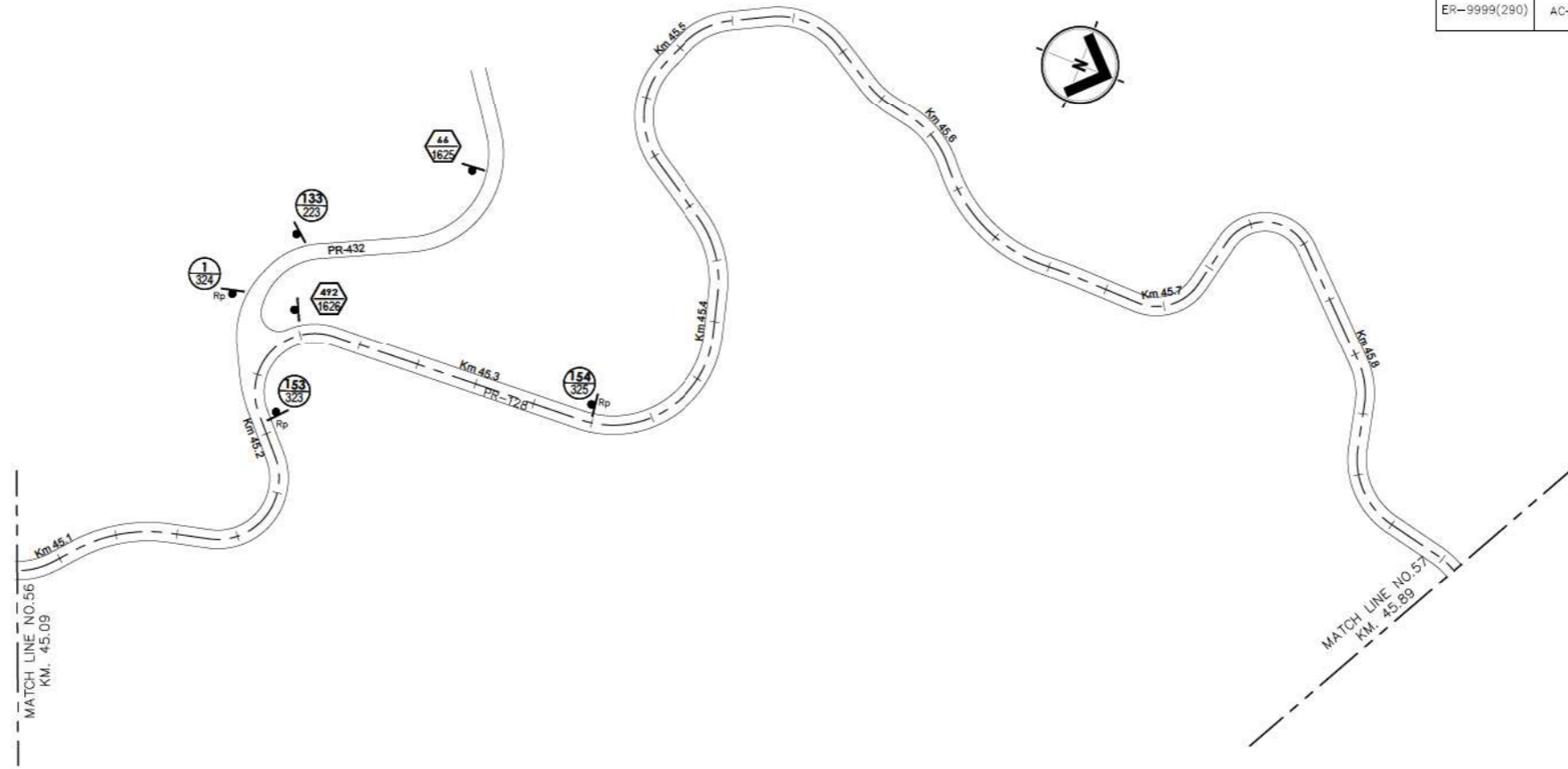
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	102	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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WORK	BY	DATE
DESIGN		
DRAWING		
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CHECK		
FINAL CHECK		

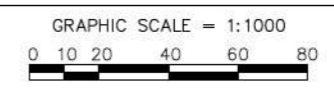
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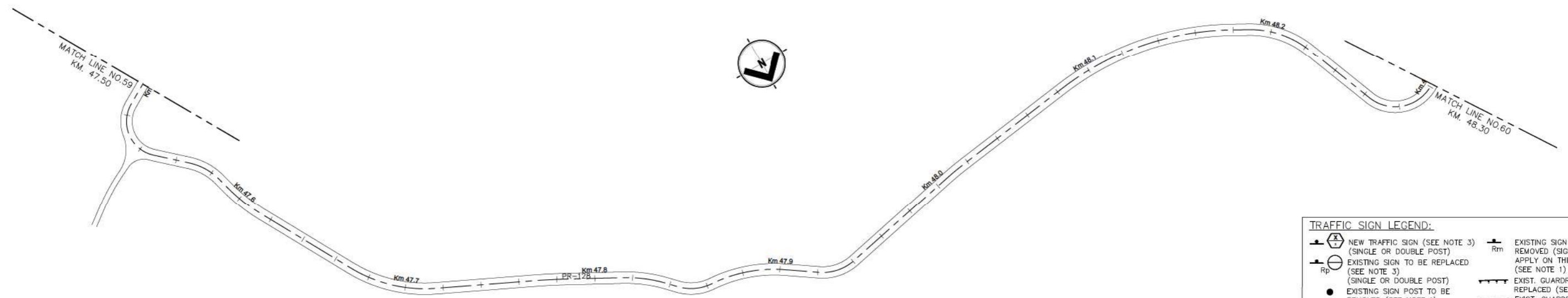
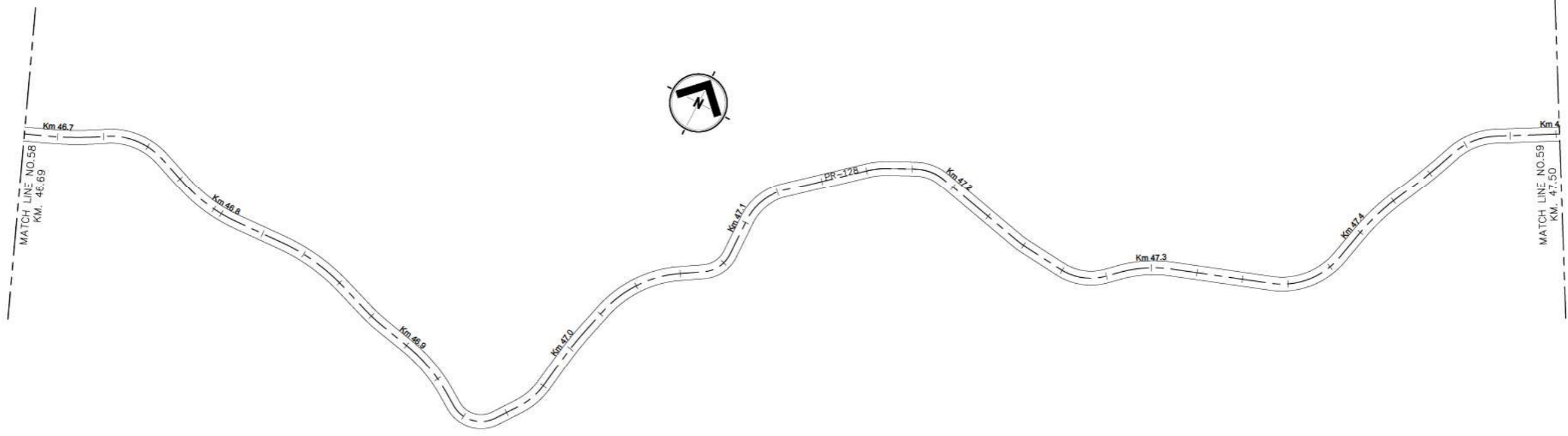
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	103	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
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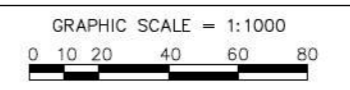
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 WORK BY DATE
 DESIGN # # # # #
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 CHECK # # # # #
 FINAL CHECK # # # # #



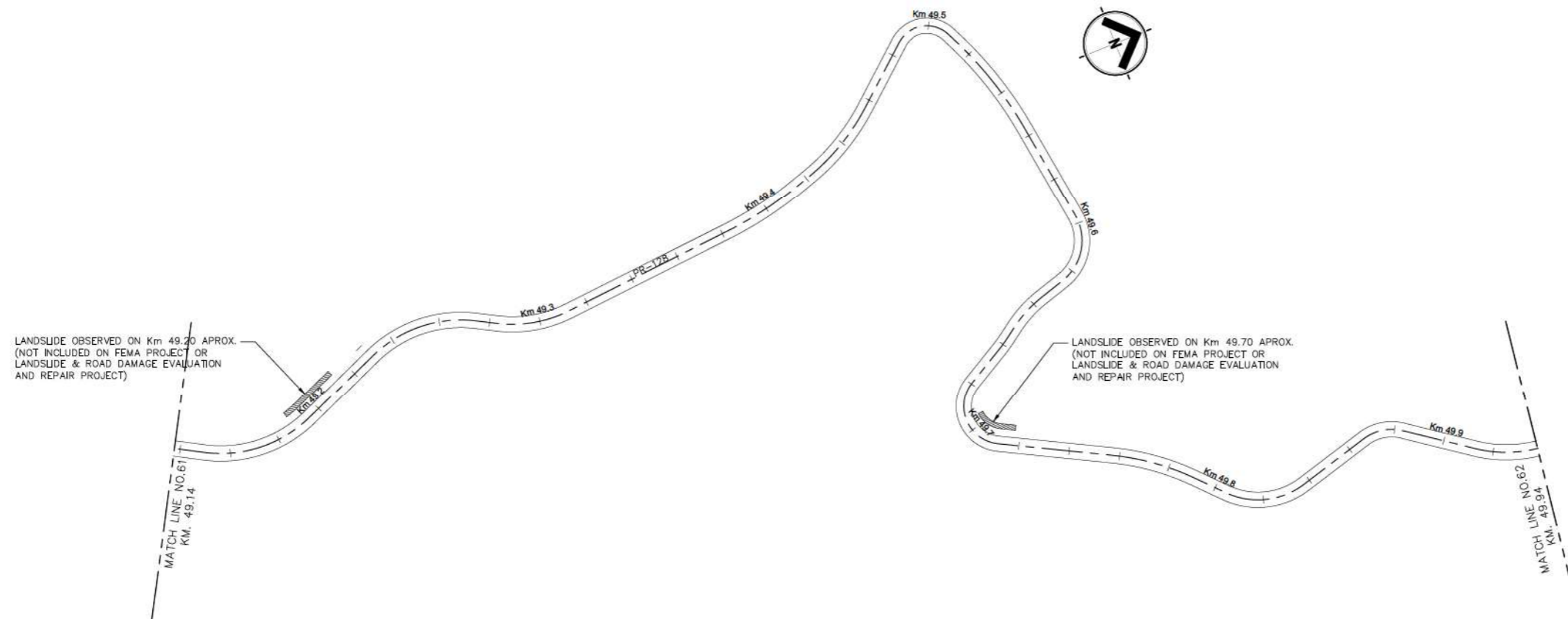
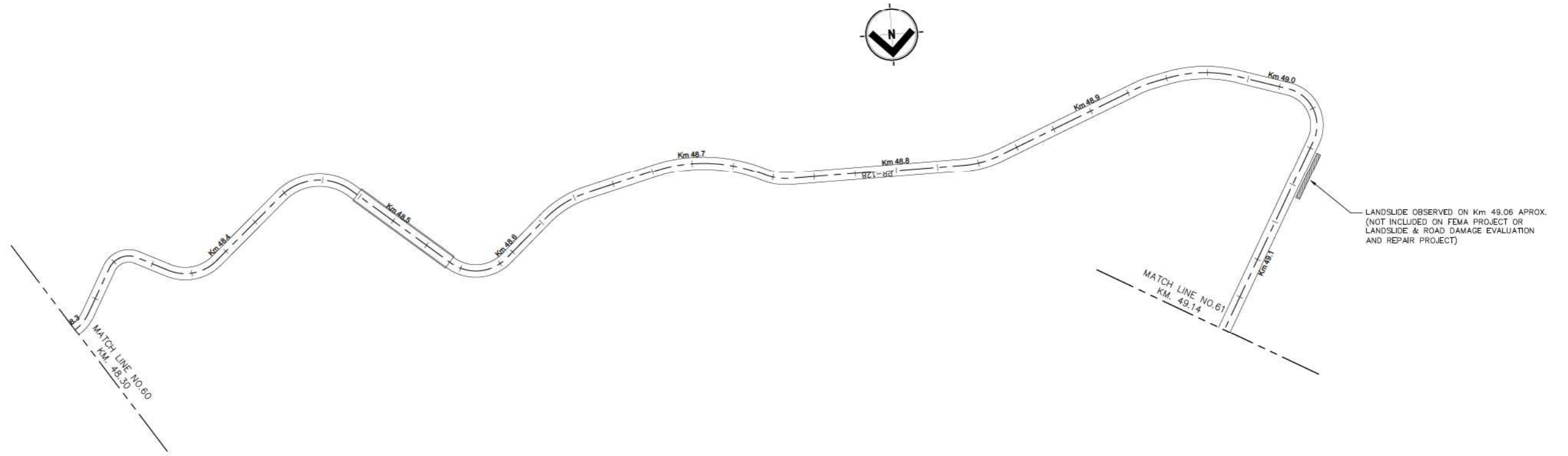
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R.- 128 FROM KM 0.0 TO KM 58.90
 YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	104	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

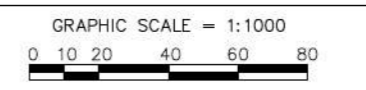
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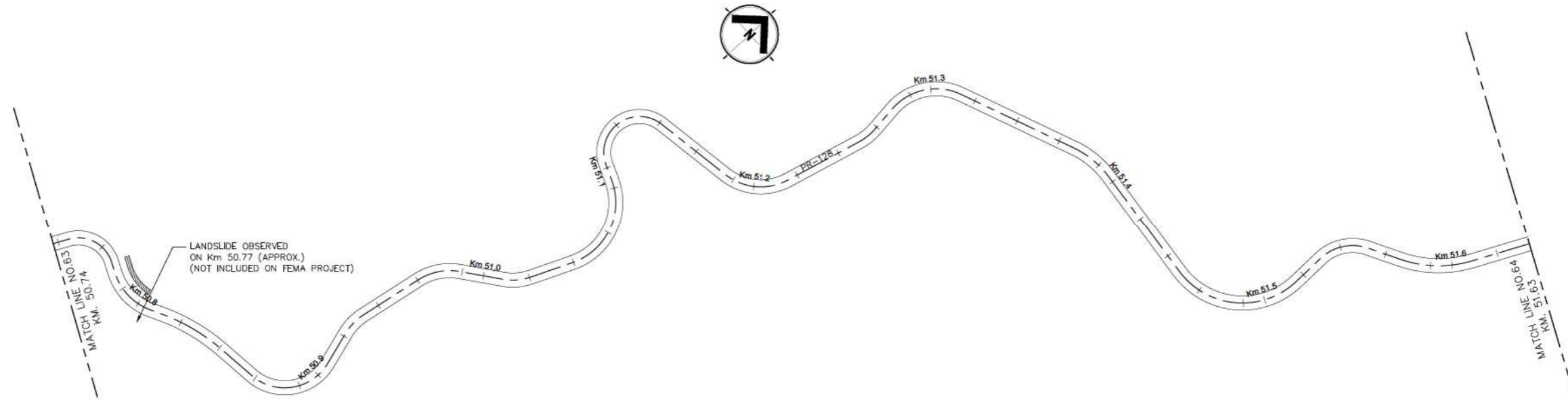
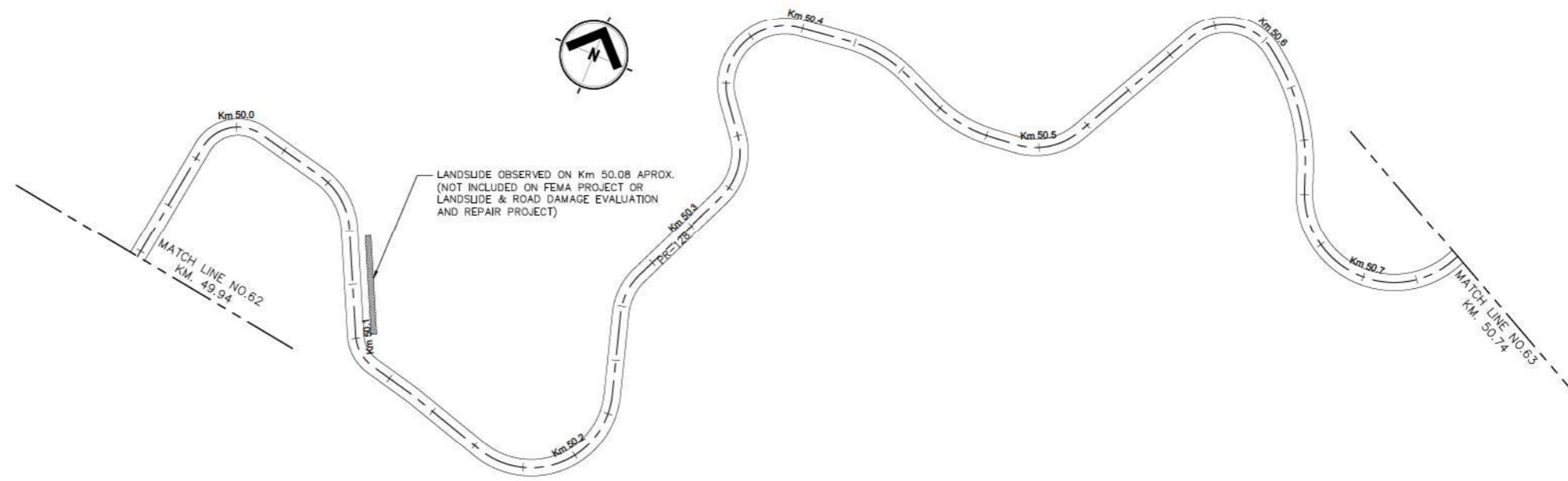
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	105	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

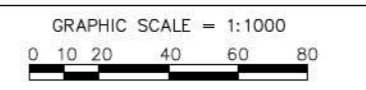
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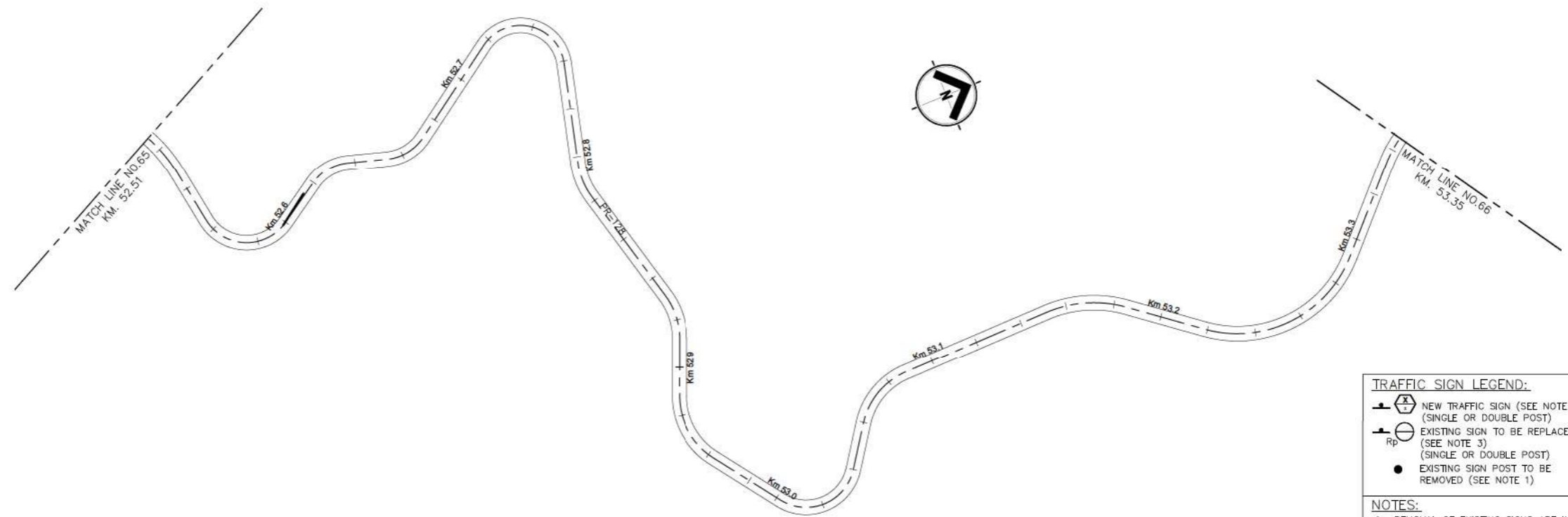
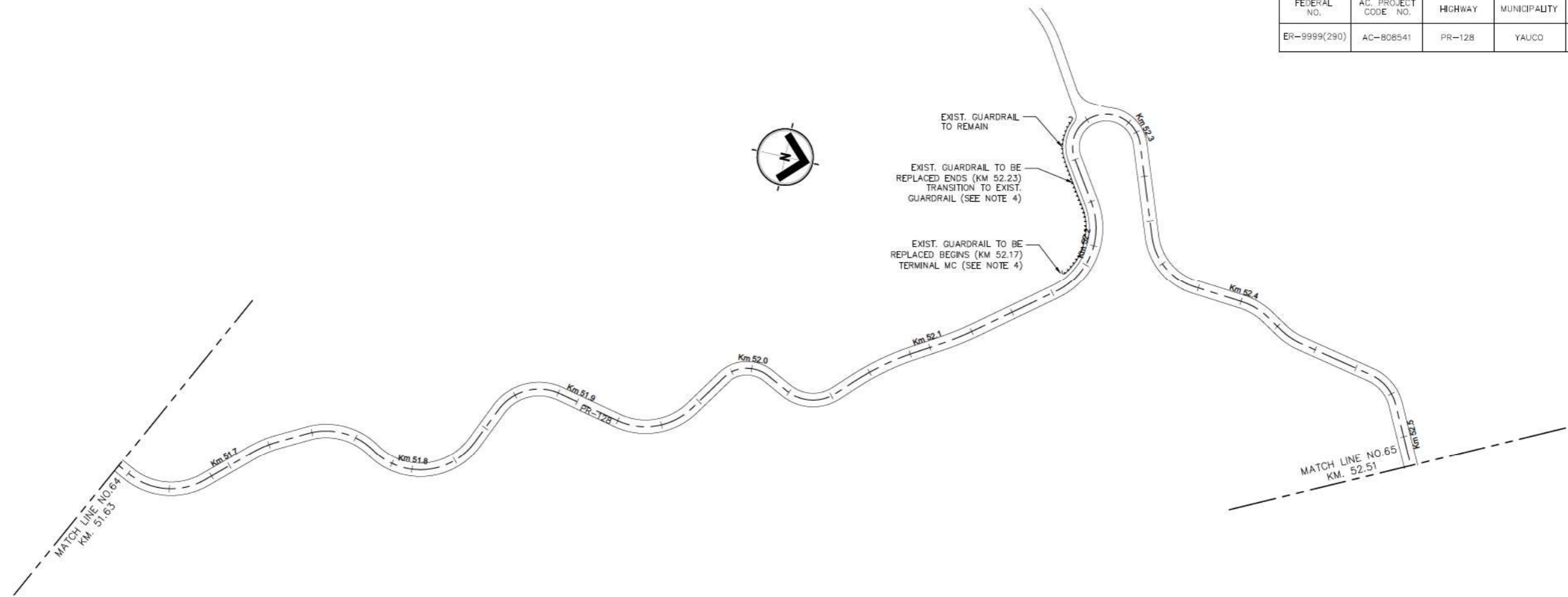
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	106	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

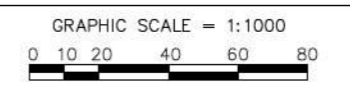
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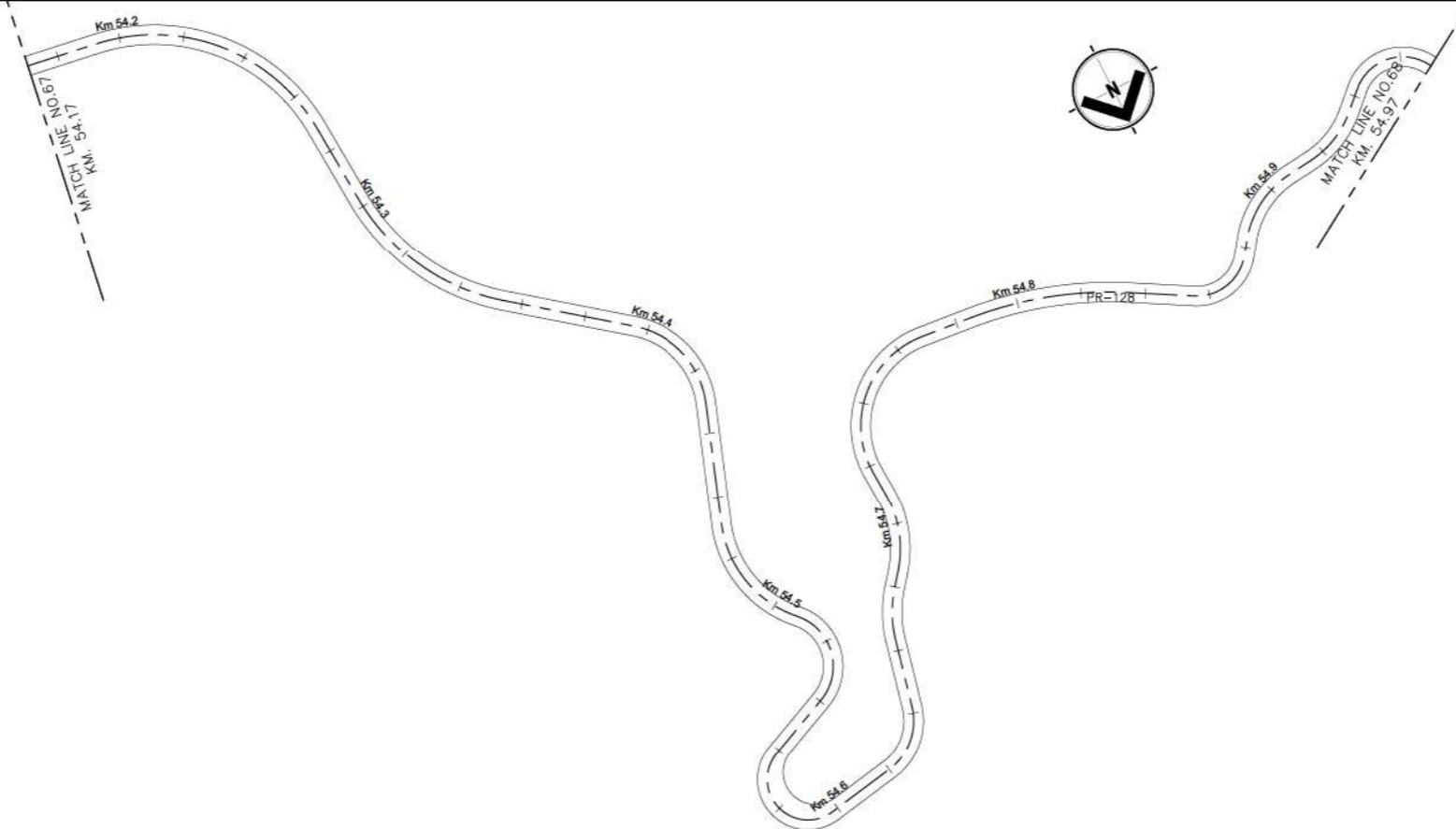
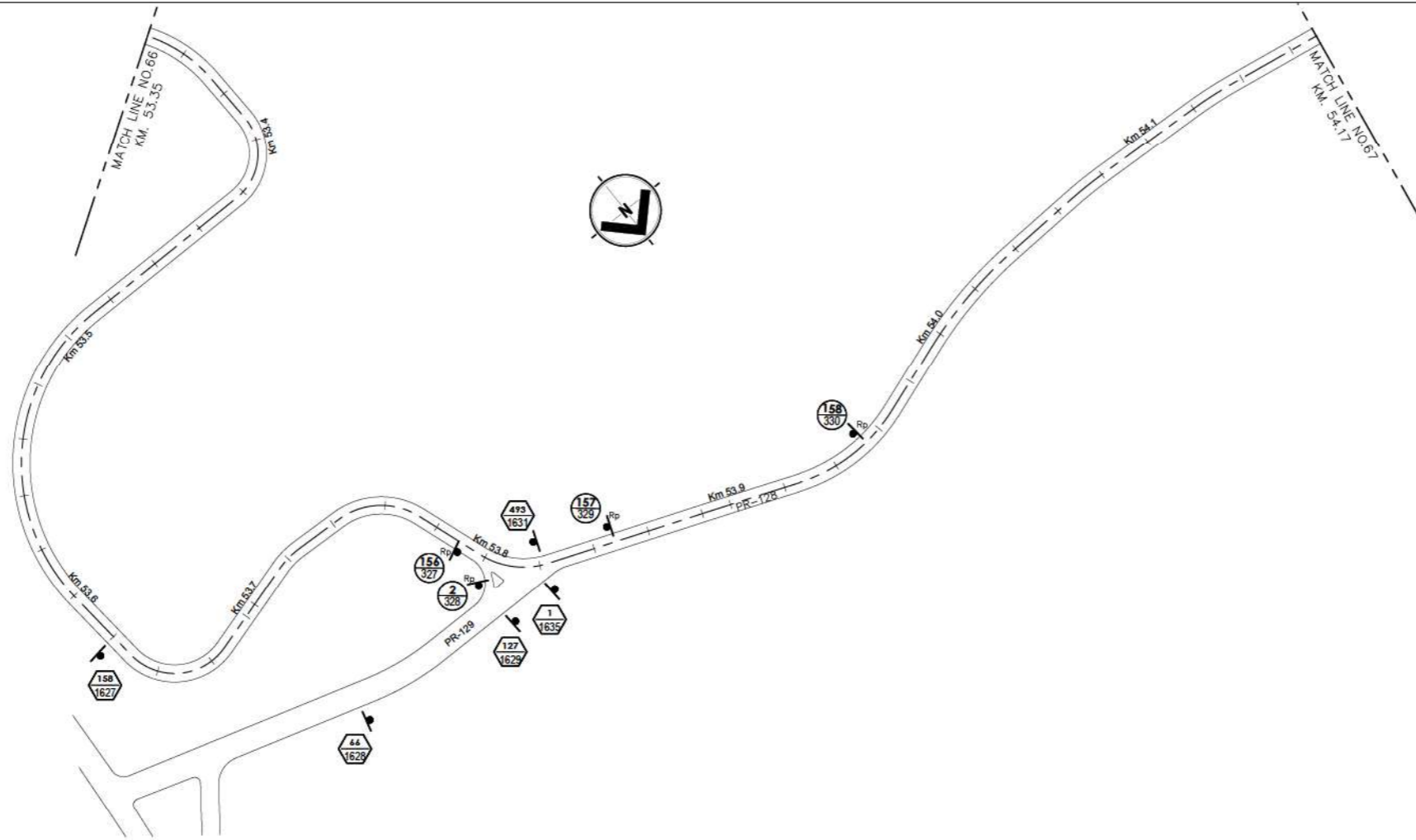
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	107	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

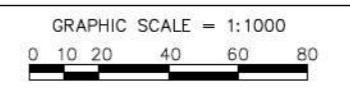
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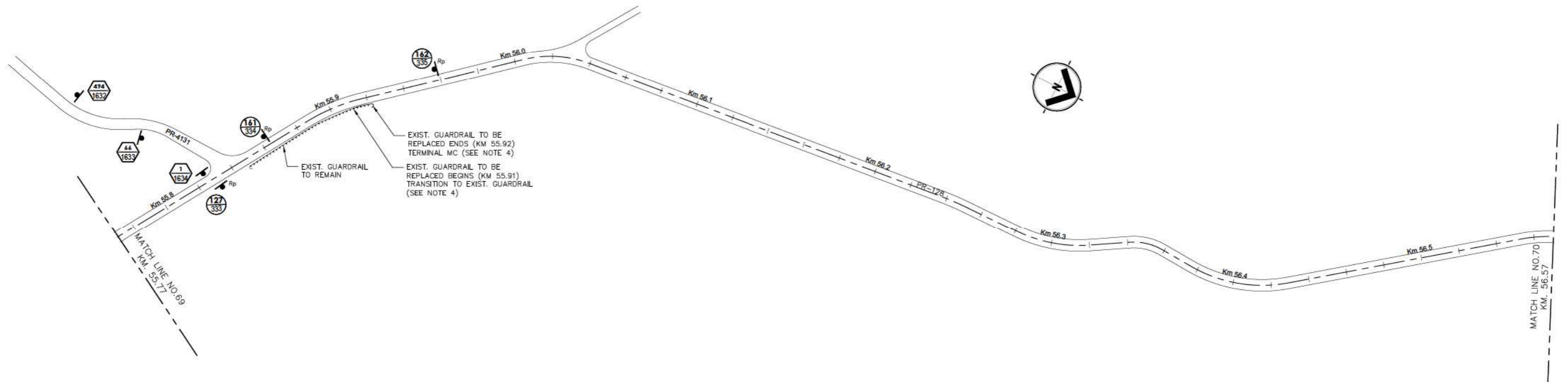
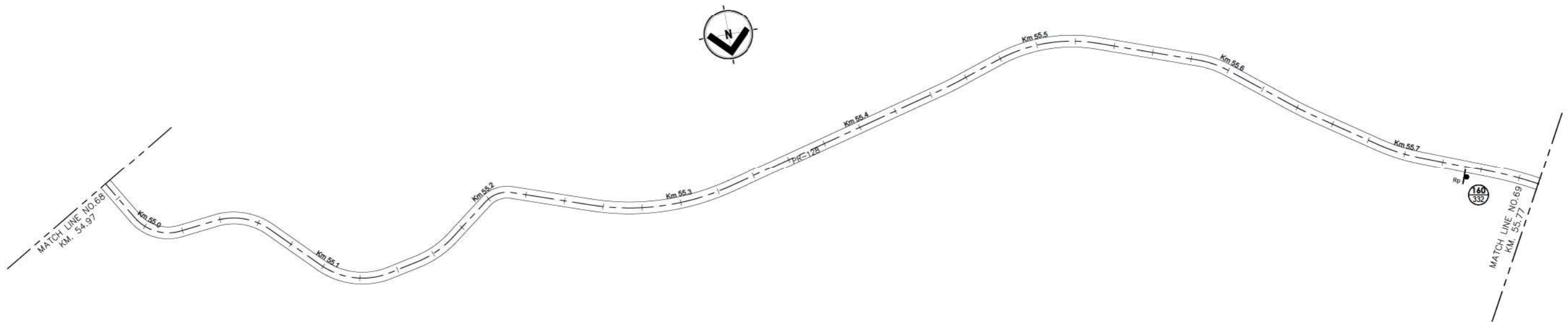
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	108	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

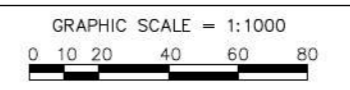
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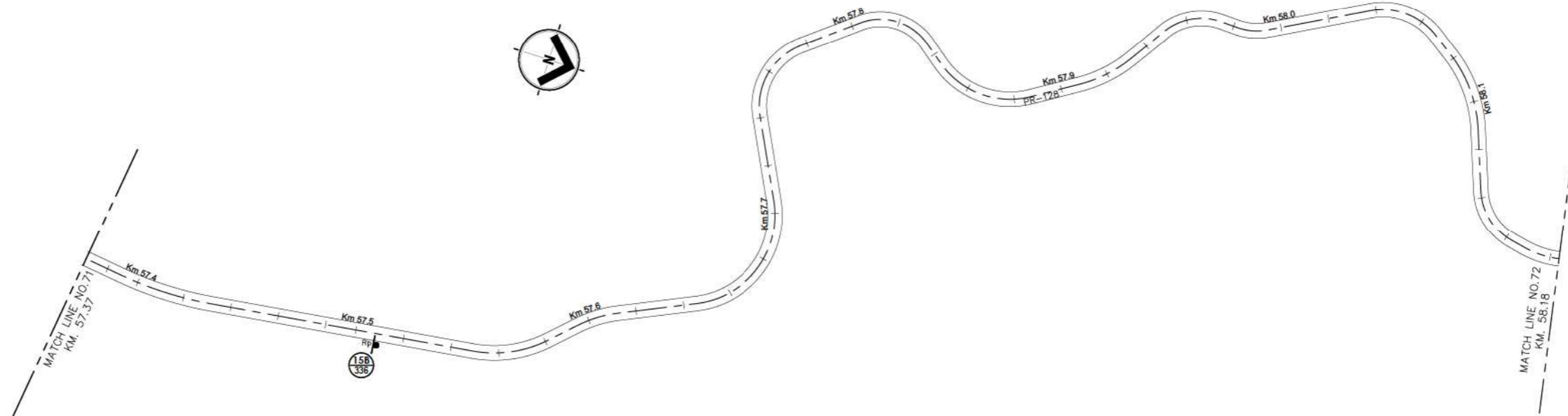
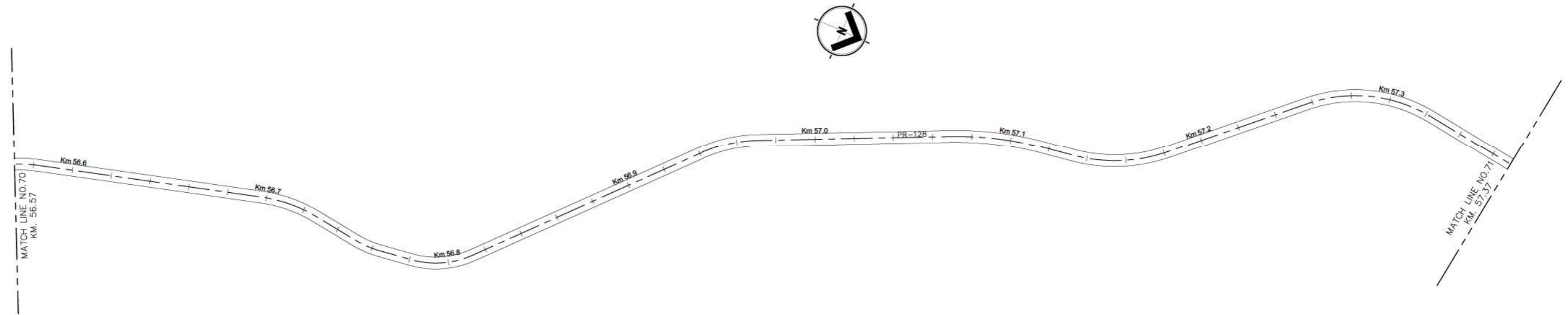
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	109	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

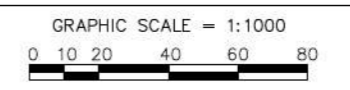
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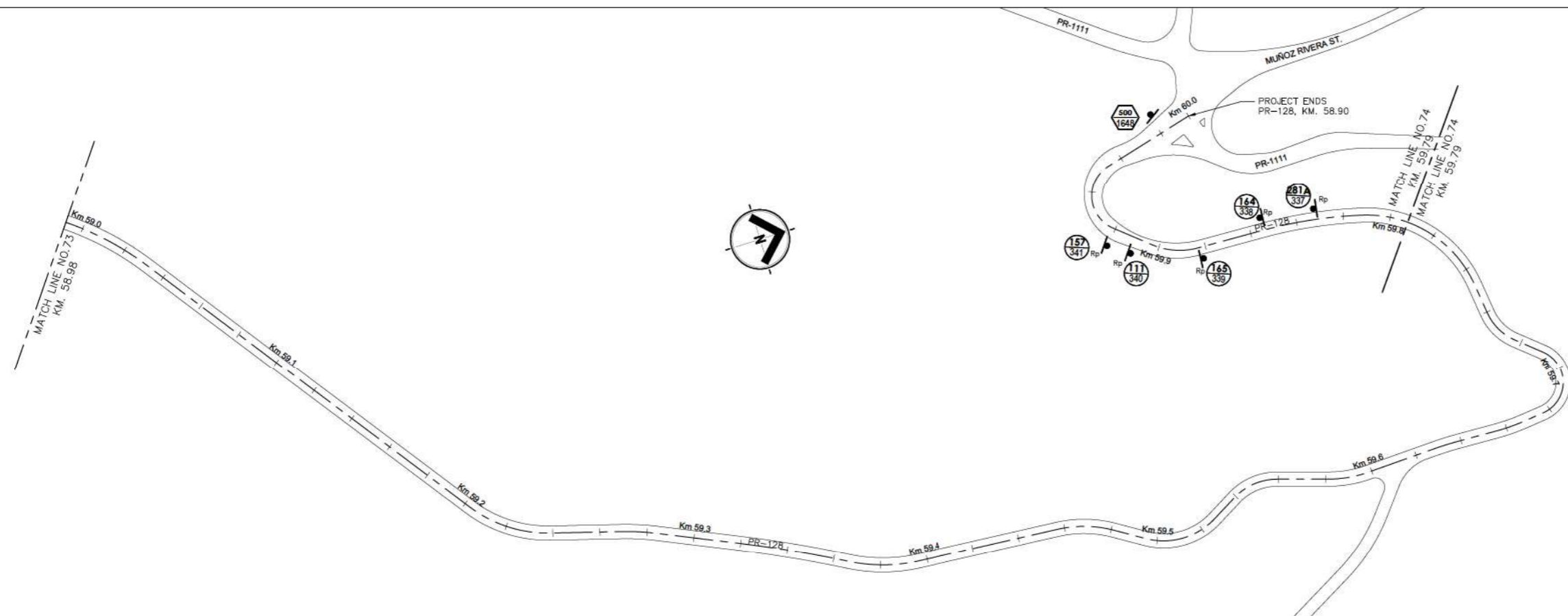
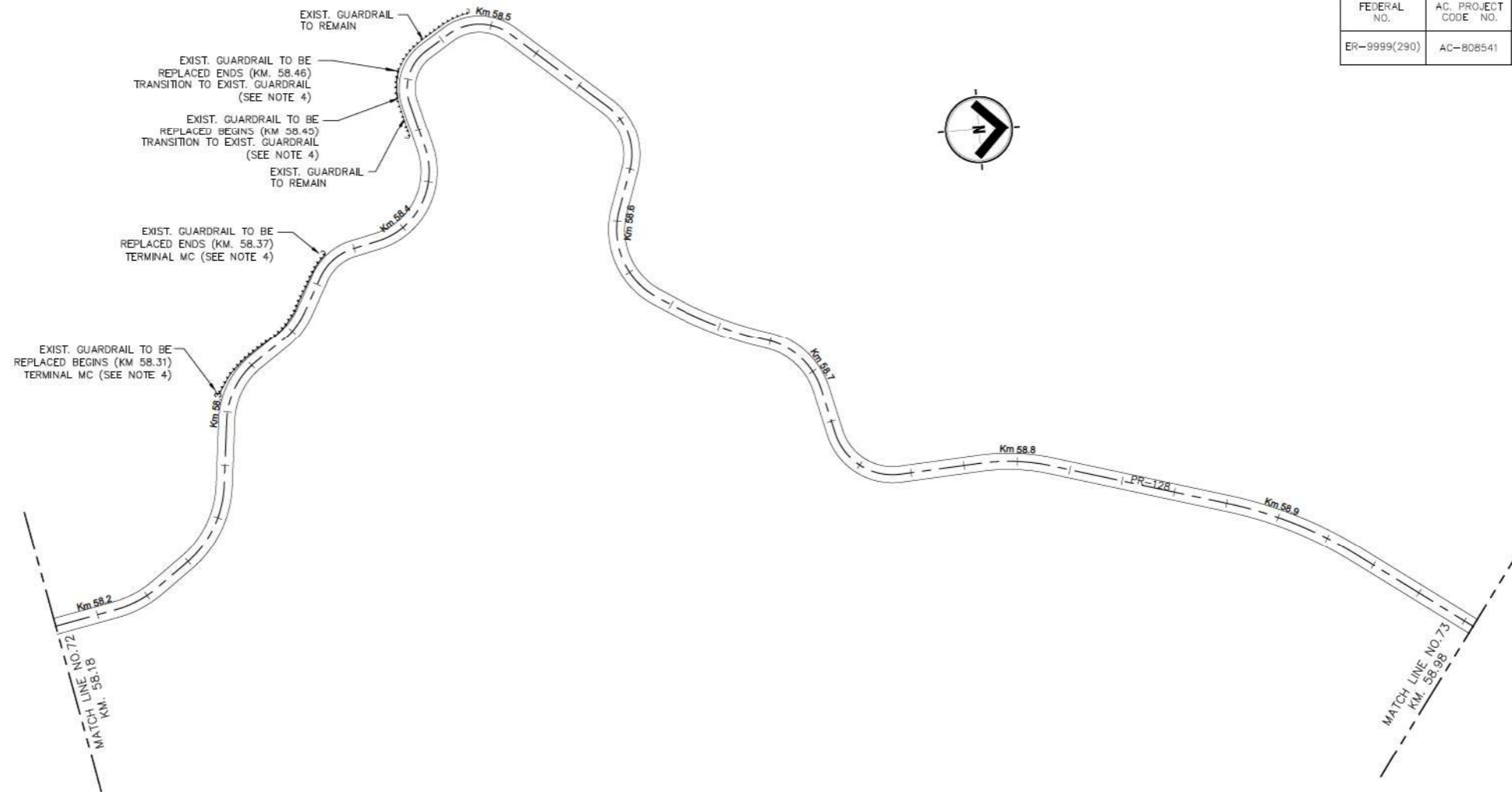
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-128	YAUCO	PR	2018	110	285



SPEC.	PAY ITEM	QUANTITY	UNIT
606	REMOVAL, STORAGE AND DELIVERY OF EXISTING GUARDRAILS (ANY TYPE)	200	LNM
606	W BEAM GUARDRAIL, SINGLE FACE	200	LNM

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SEE NOTE 1)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

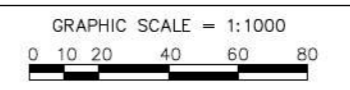
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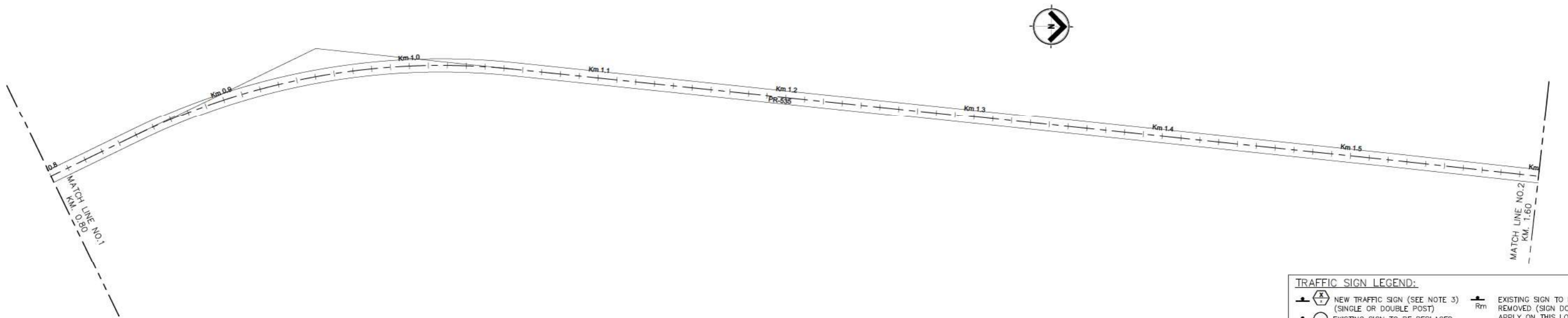
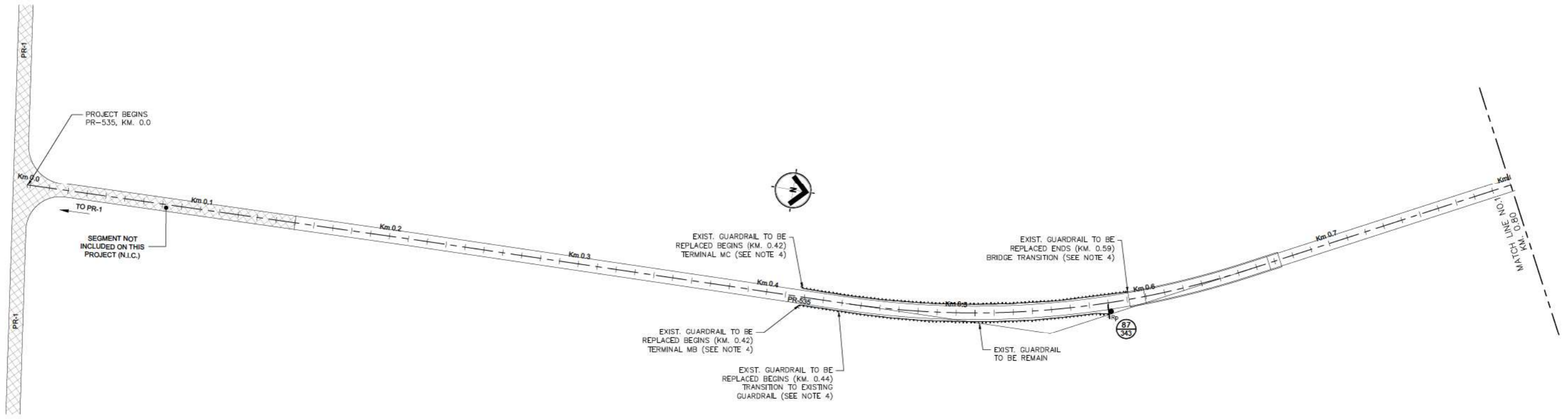
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.- 128 FROM KM 0.0 TO KM 58.90
YAUCO, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-535	JUANA DIAZ	PR	2018	114	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	DATE
DESIGN	##/##/##
DRAWING	##/##/##
TRACED	##/##/##
CHECK	##/##/##
FINAL CHECK	##/##/##

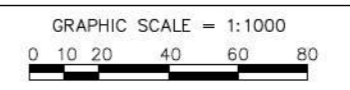
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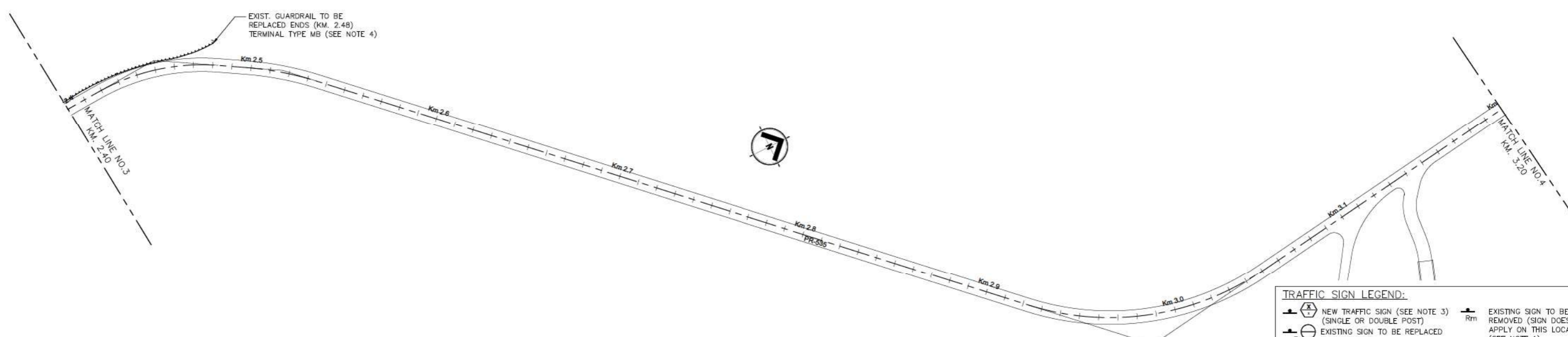
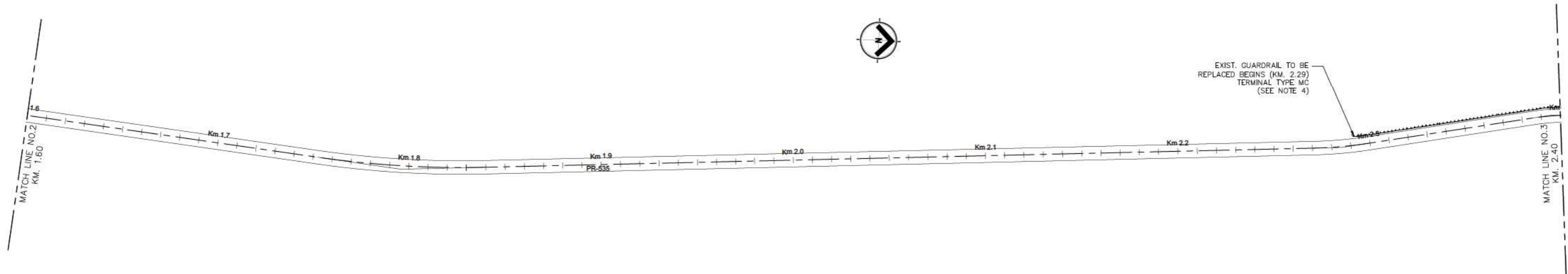
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 535 FROM KM 0.0 TO KM 6.50
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-535	JUANA DIAZ	PR	2018	115	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

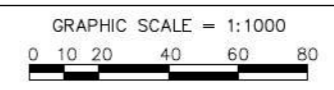
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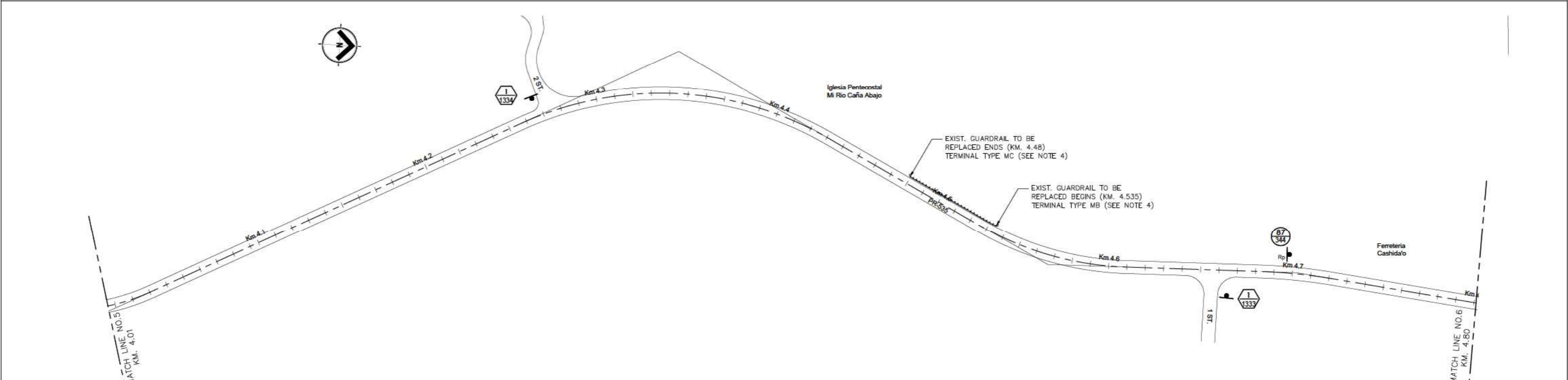
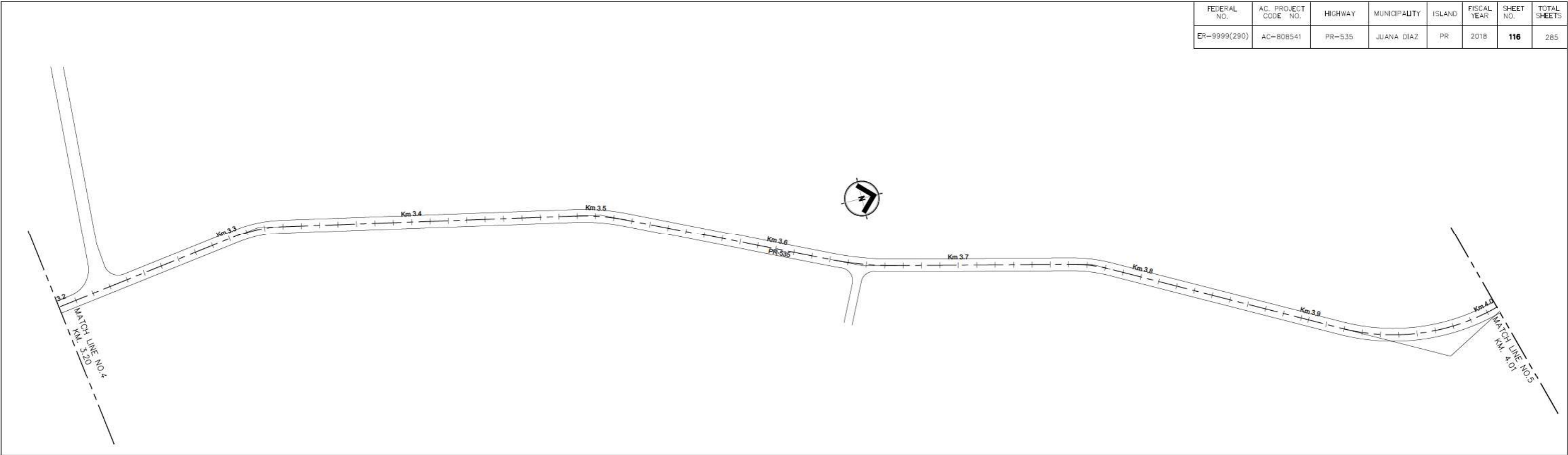
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 535 FROM KM 0.0 TO KM 6.50
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-535	JUANA DIAZ	PR	2018	116	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

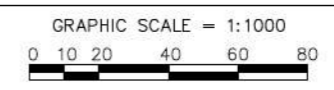
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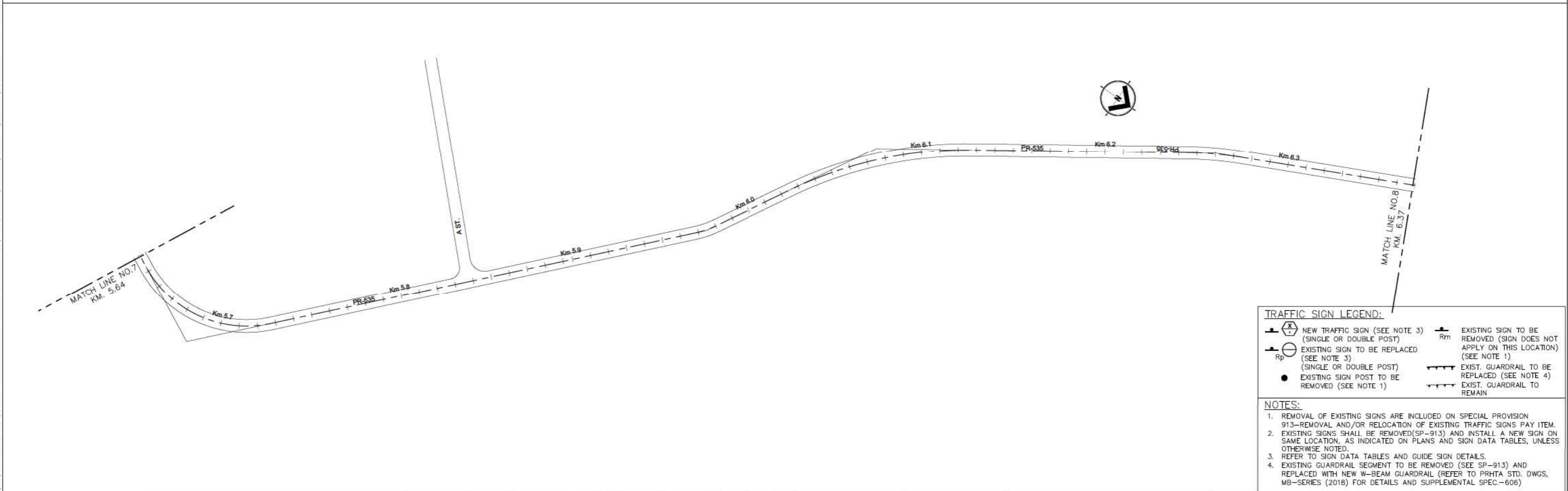
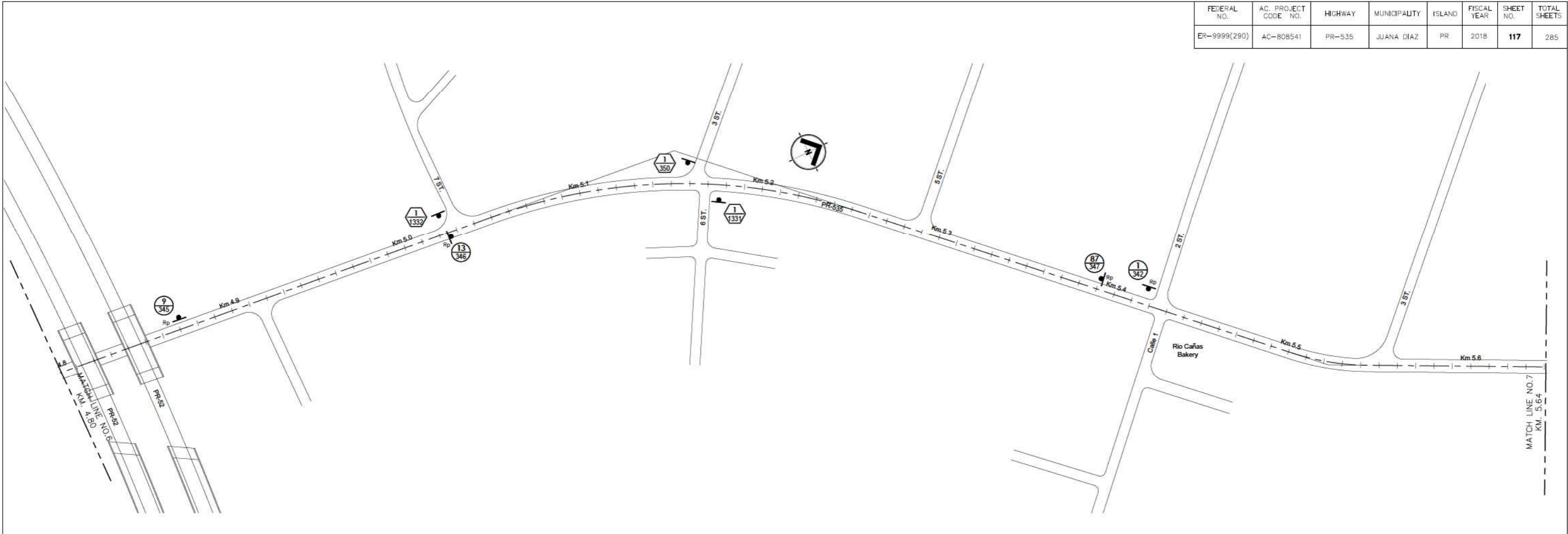
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 535 FROM KM 0.0 TO KM 6.50
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-535	JUANA DIAZ	PR	2018	117	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

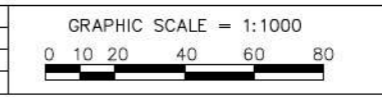
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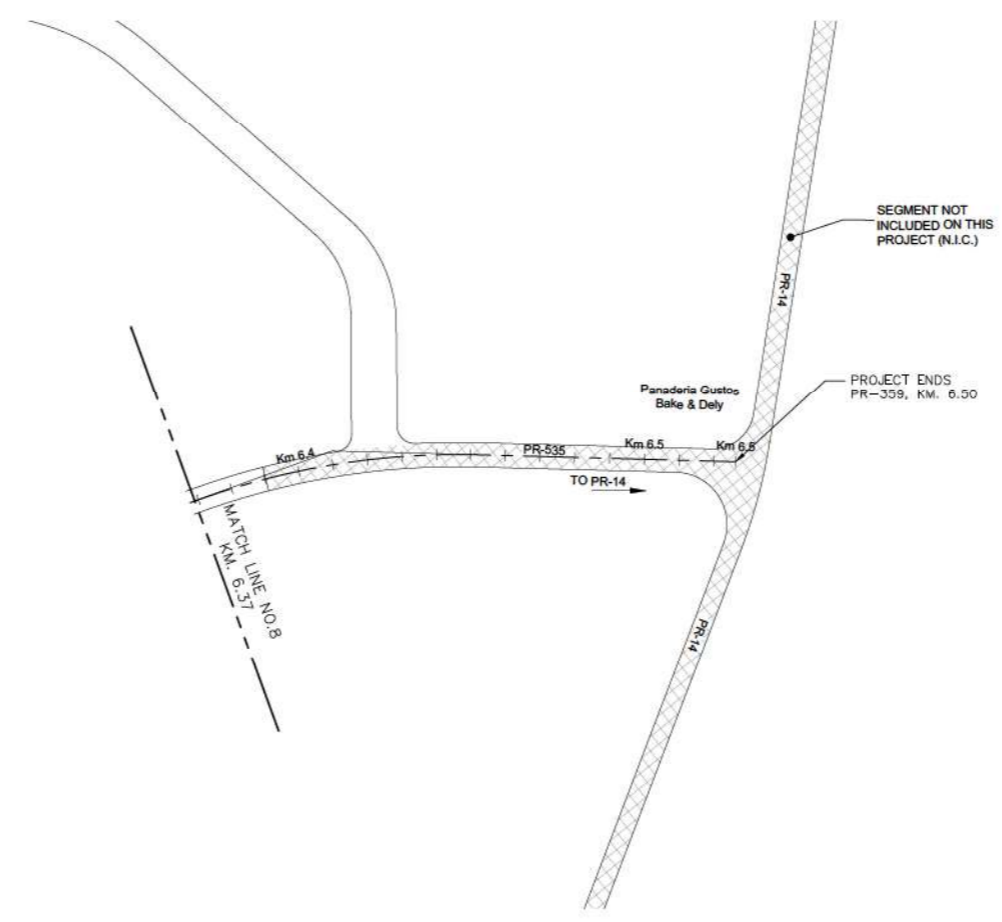
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 535 FROM KM 0.0 TO KM 6.50
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-535	JUANA DIAZ	PR	2018	118	285



SPEC.	PAY ITEM	QUANTITY	UNIT
606	REMOVAL, STORAGE AND DELIVERY OF EXISTING GUARDRAILS (ANY TYPE)	435	LNM
606	W-BEAM GUARDRAIL, SINGLE FACE	435	LNM

TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

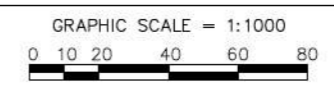
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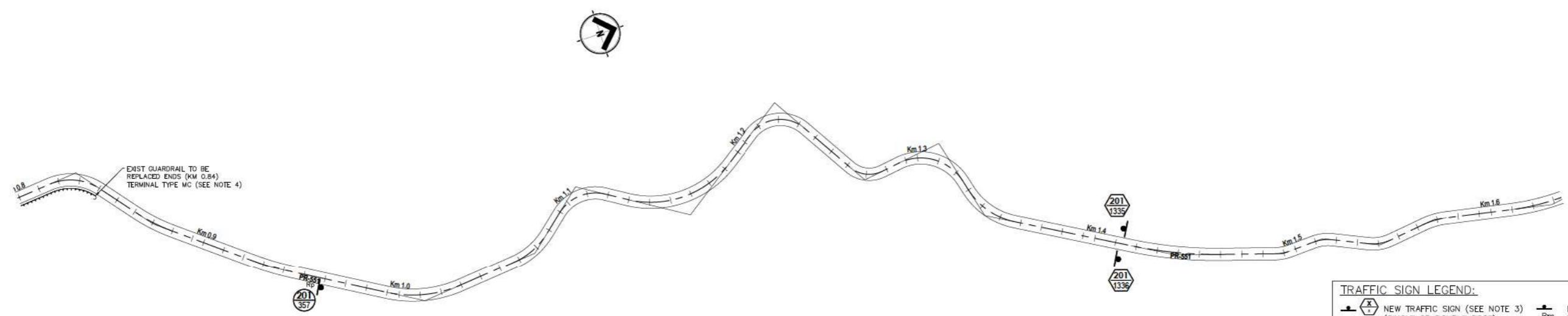
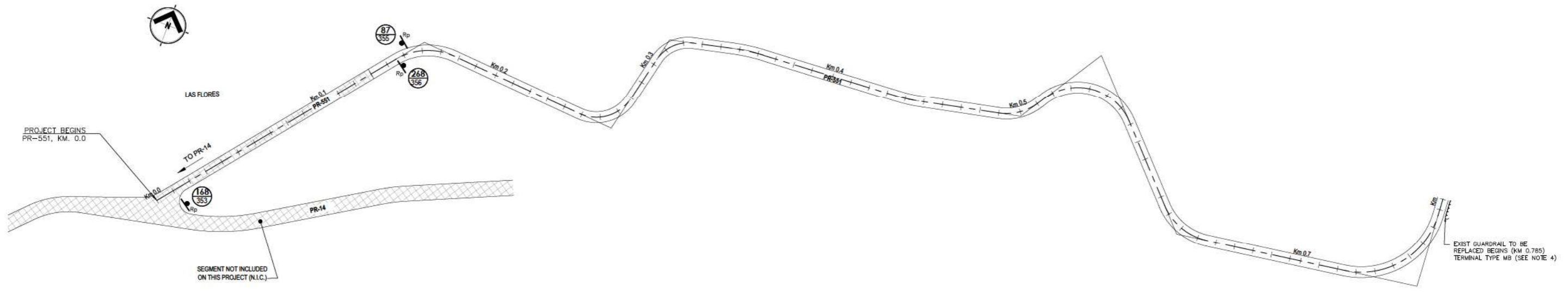
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 535 FROM KM 0.0 TO KM 6.50
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-551	JUANA DIAZ	PR	2018	121	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN TO REMAIN (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

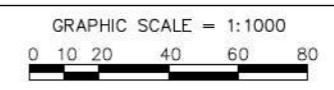
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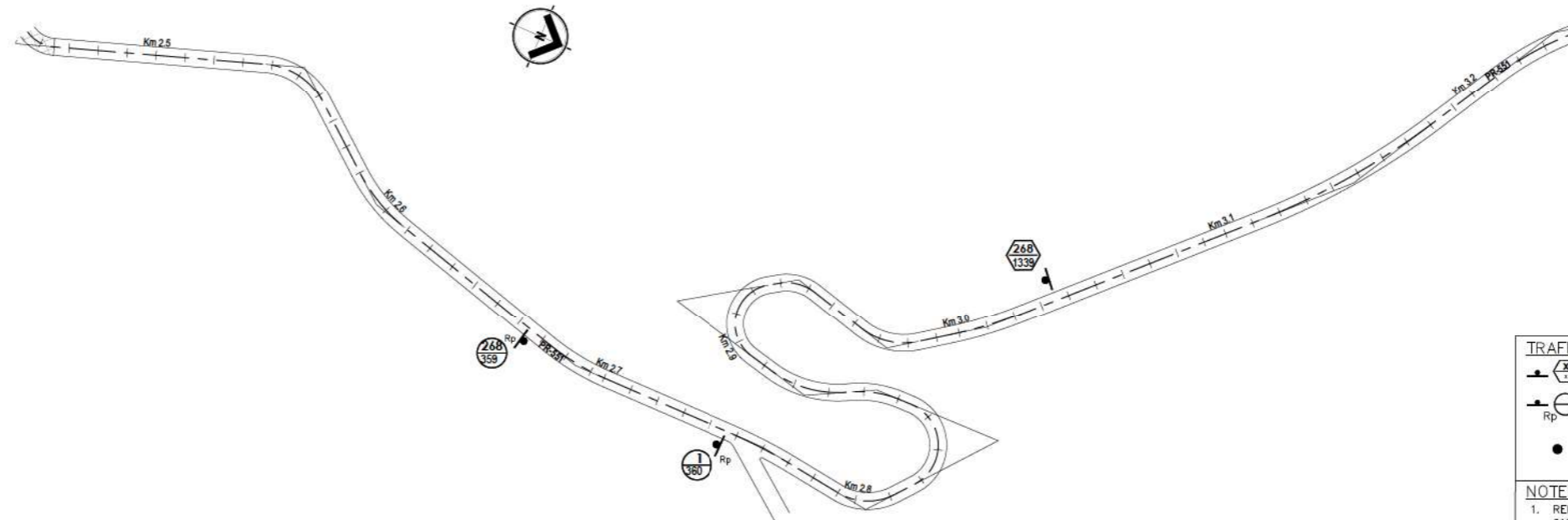
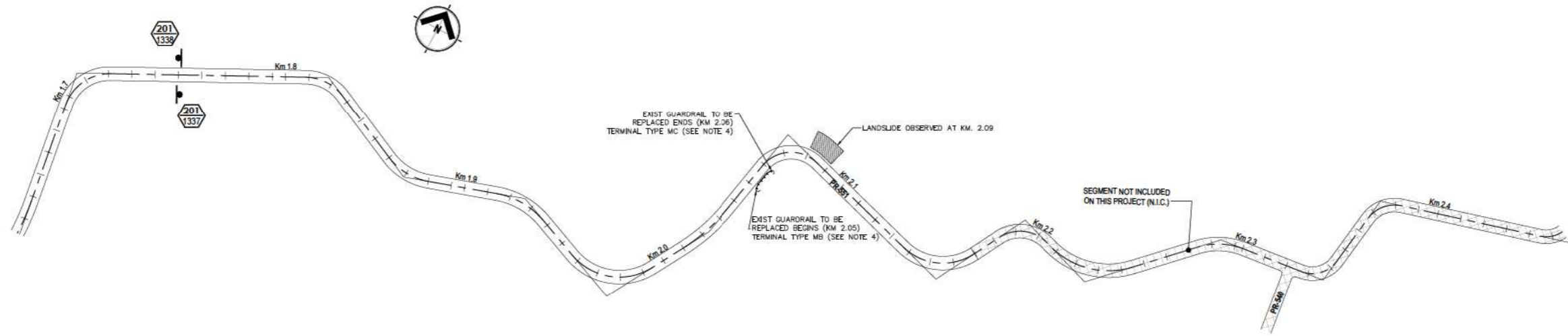
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 551 FROM KM 0.0 TO KM 3.75
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-551	JUANA DIAZ	PR	2018	122	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

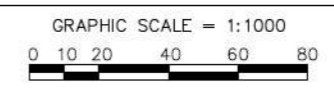
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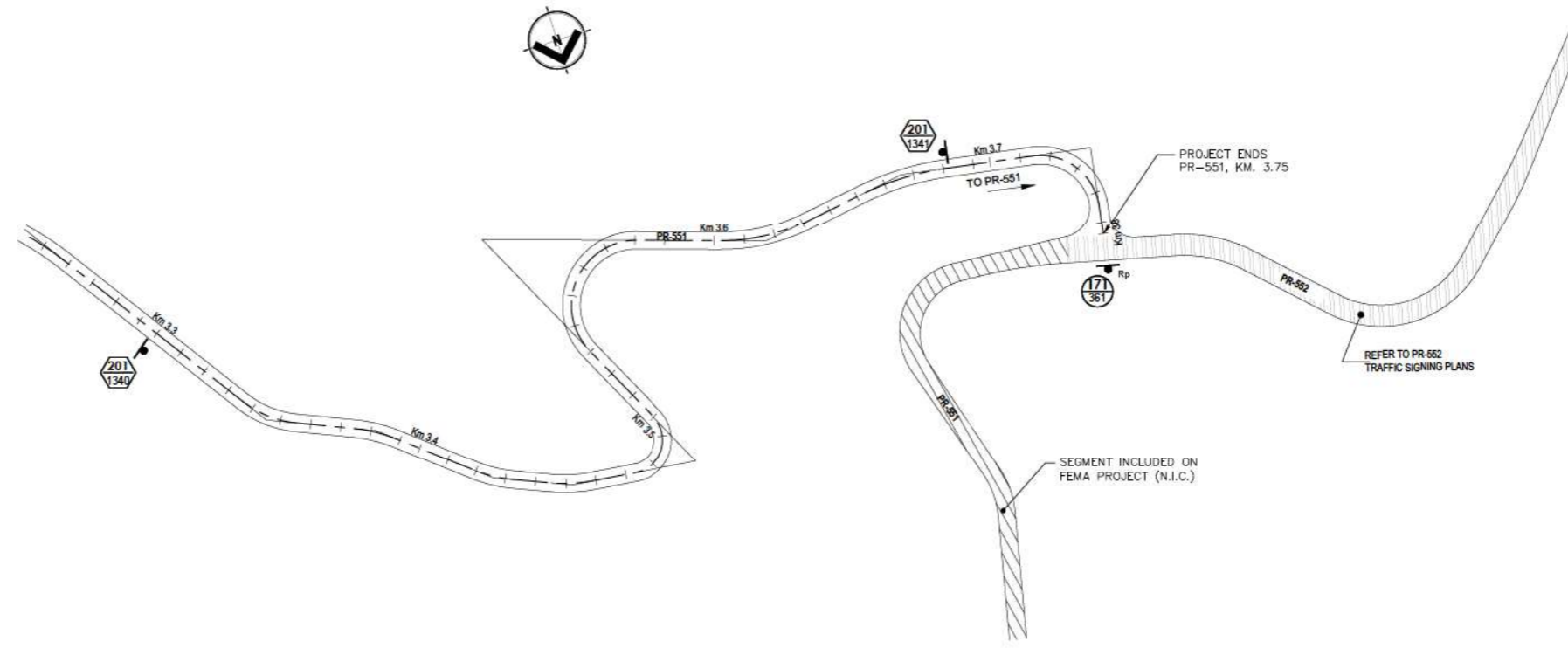
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 551 FROM KM 0.0 TO KM 3.75
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-551	JUANA DIAZ	PR	2018	123	285



SPEC.	PAY ITEM	QUANTITY	UNIT
606	REMOVAL STORAGE AND DELIVERY OF EXISTING GUARDRAILS (ANY TYPE)	65	LNM
606	W-BEAM GUARDRAIL, SINGLE FACE	65	LNM

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

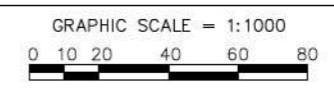
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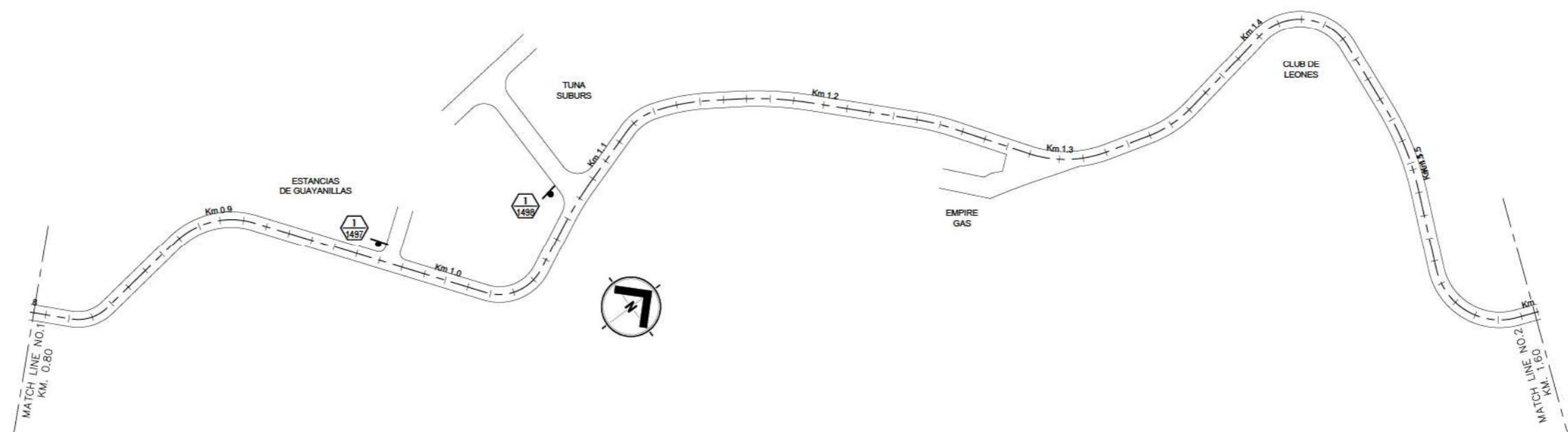
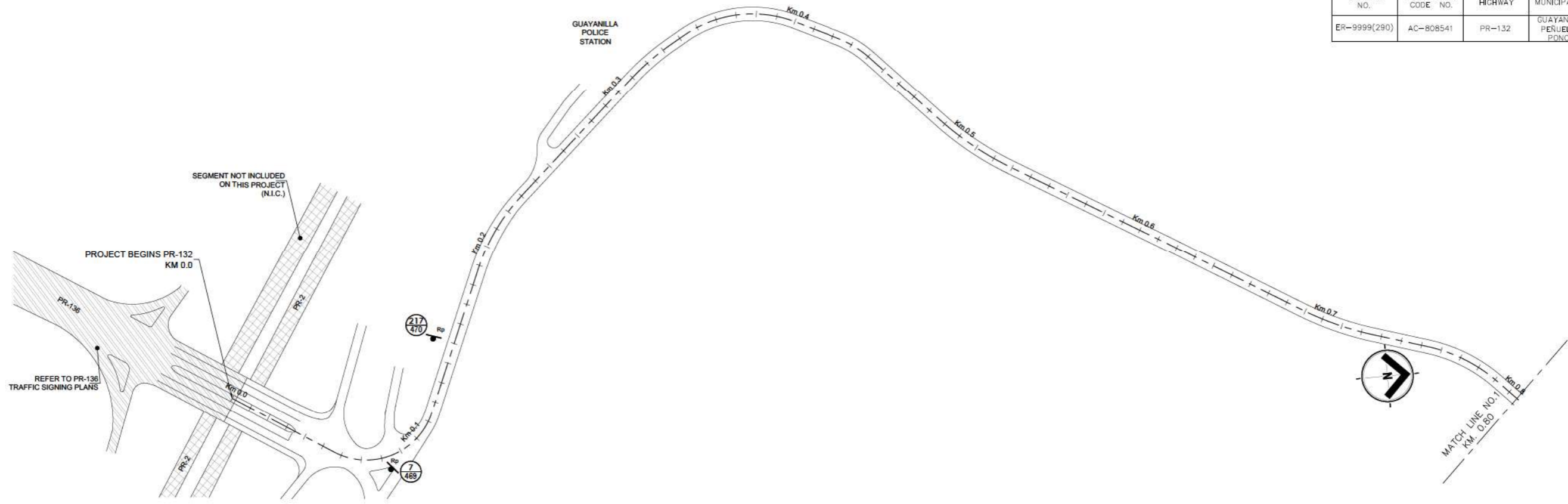
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 551 FROM KM 0.0 TO KM 3.75
JUANA DIAZ, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	130	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SEE NOTE 1)		EXISTING SIGN TO REMAIN
	NEW GUARDRAIL TO BE INSTALLED (SEE NOTE 4)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXIST. GUARDRAIL TO REMAIN		

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

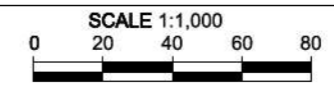
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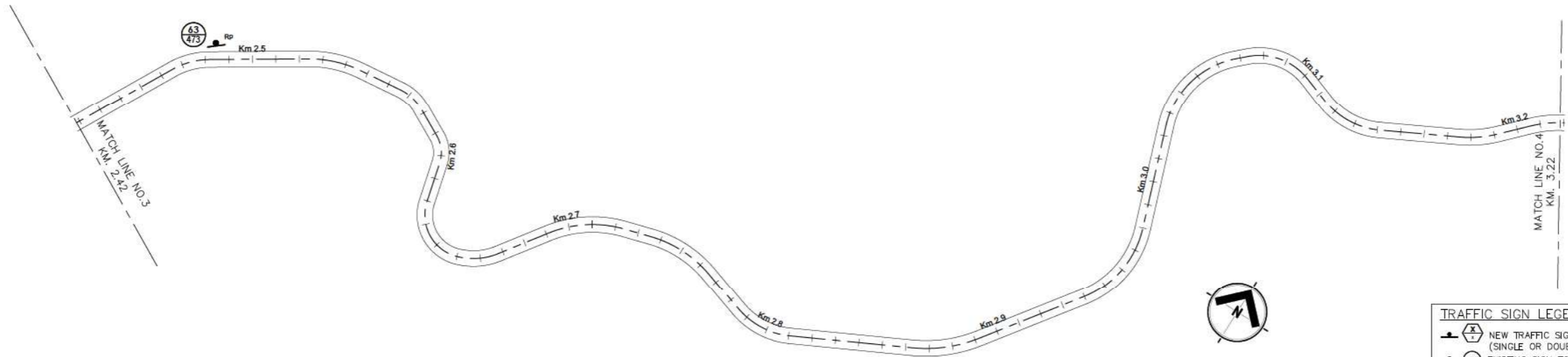
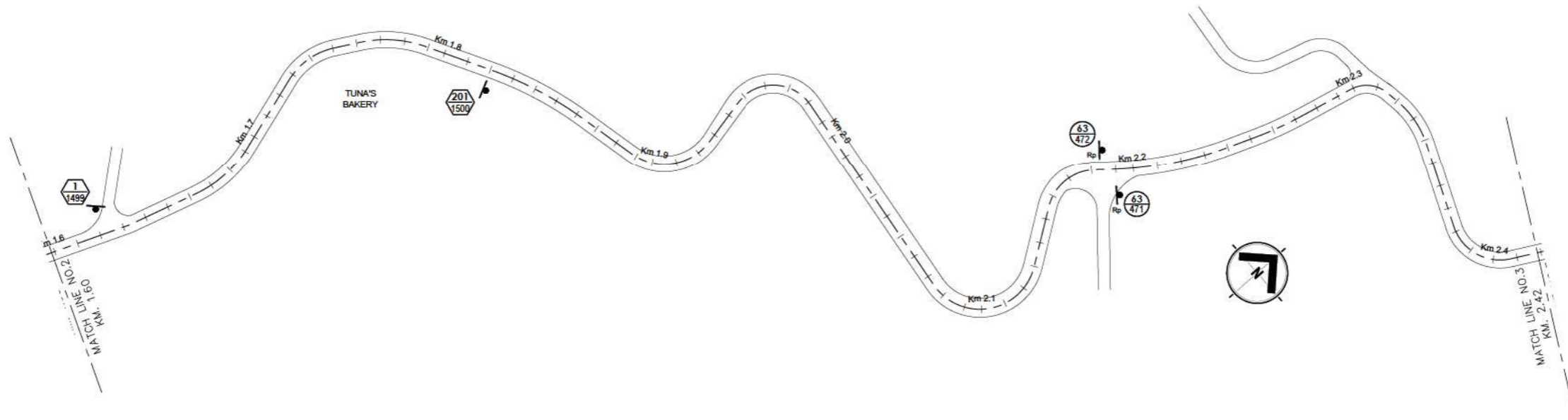
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	137	285



TRAFFIC SIGN LEGEND:

NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
EXISTING SIGN TO BE REPLACED (SEE NOTE 3)	EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)	EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

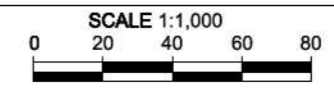
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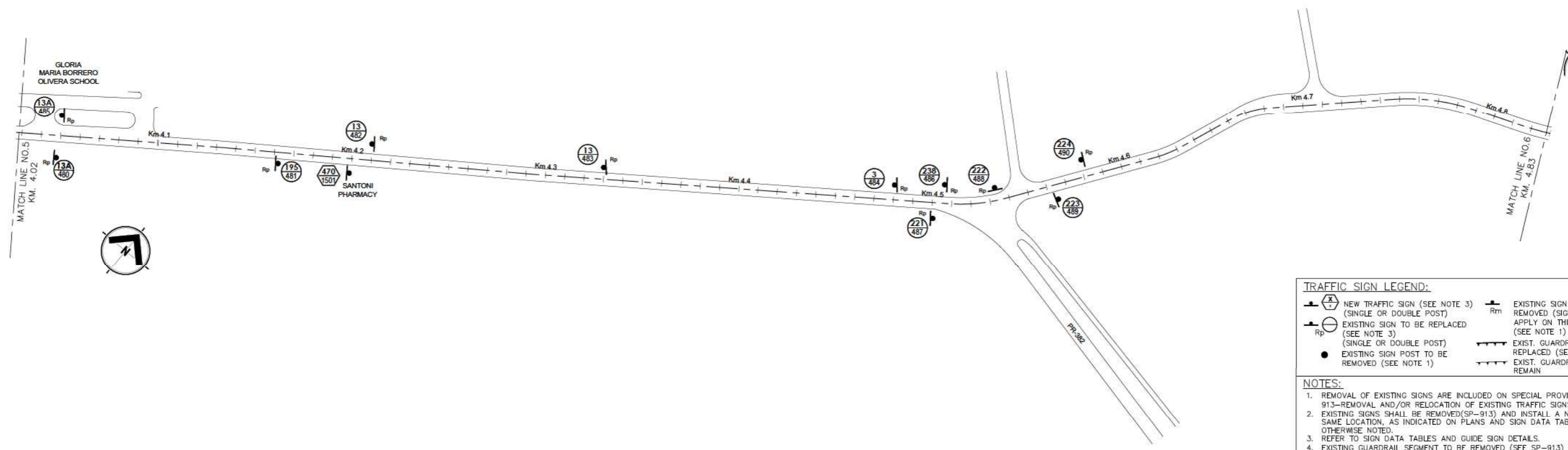
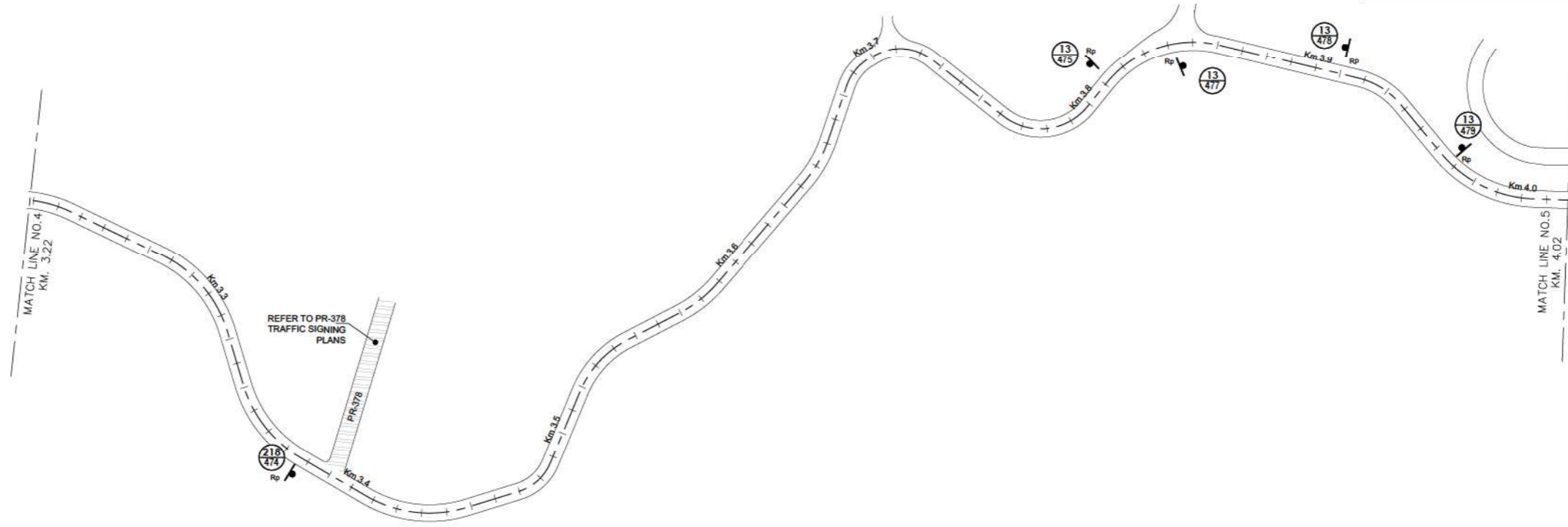
PUERTO RICO HIGHWAY AND
TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	138	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

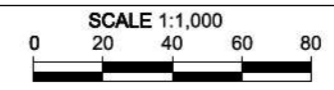
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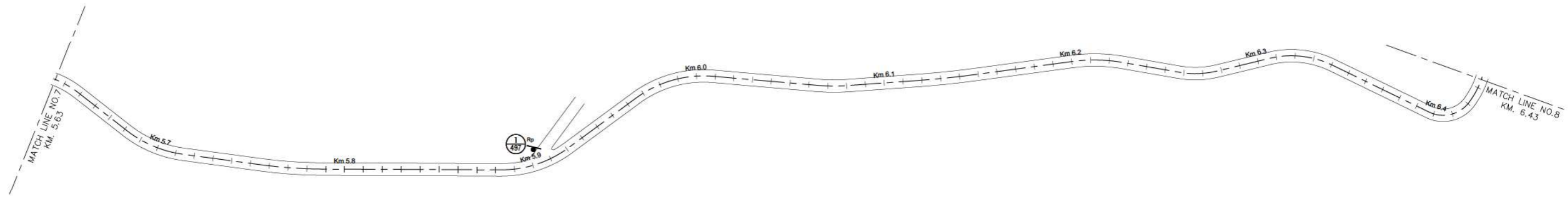
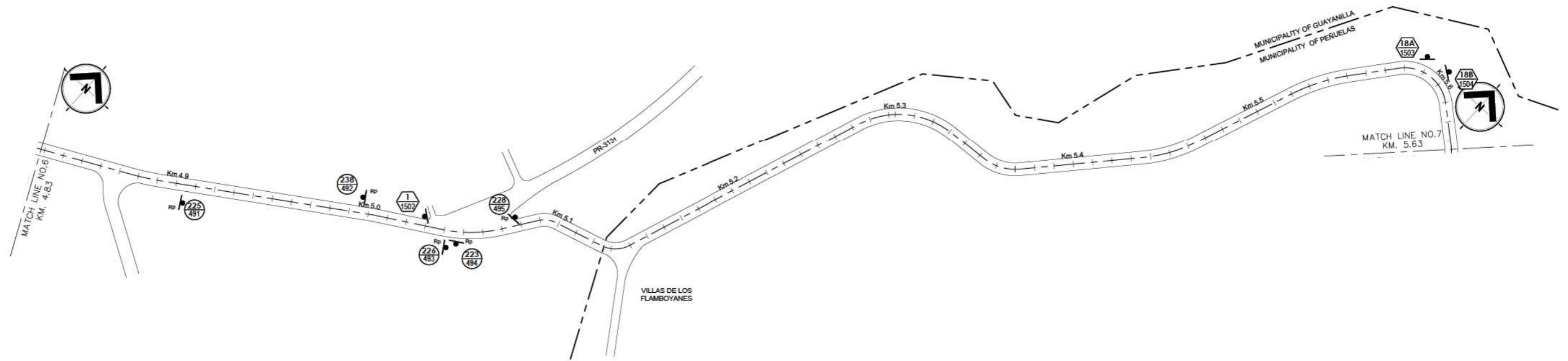
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	130	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
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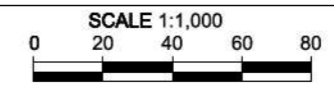
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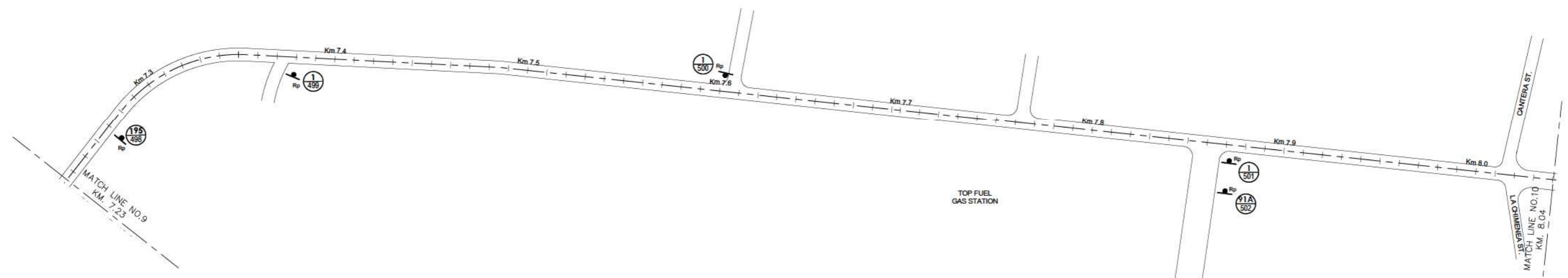
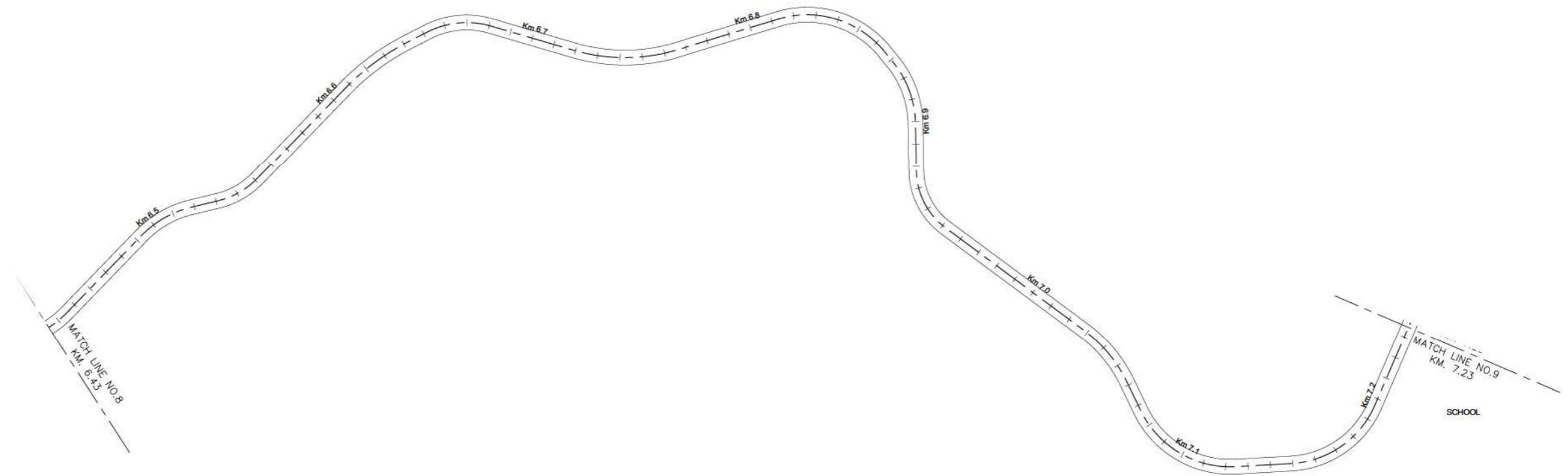
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	140	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

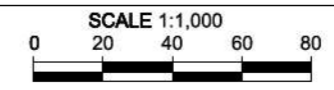
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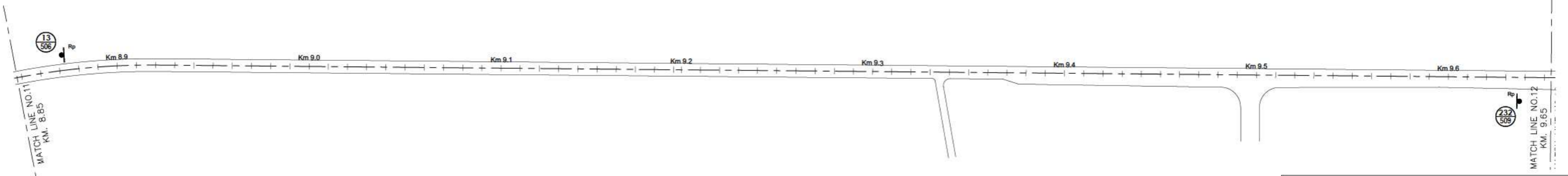
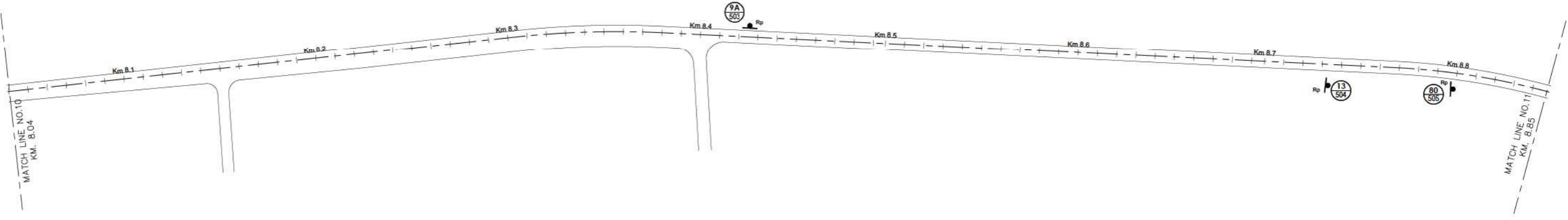


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
 HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R.-132, FROM KM 0.0 TO KM 25.50
 GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	141	285



TRAFFIC SIGN LEGEND:

NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)	EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)	EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
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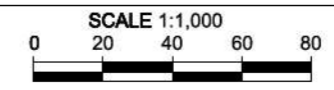
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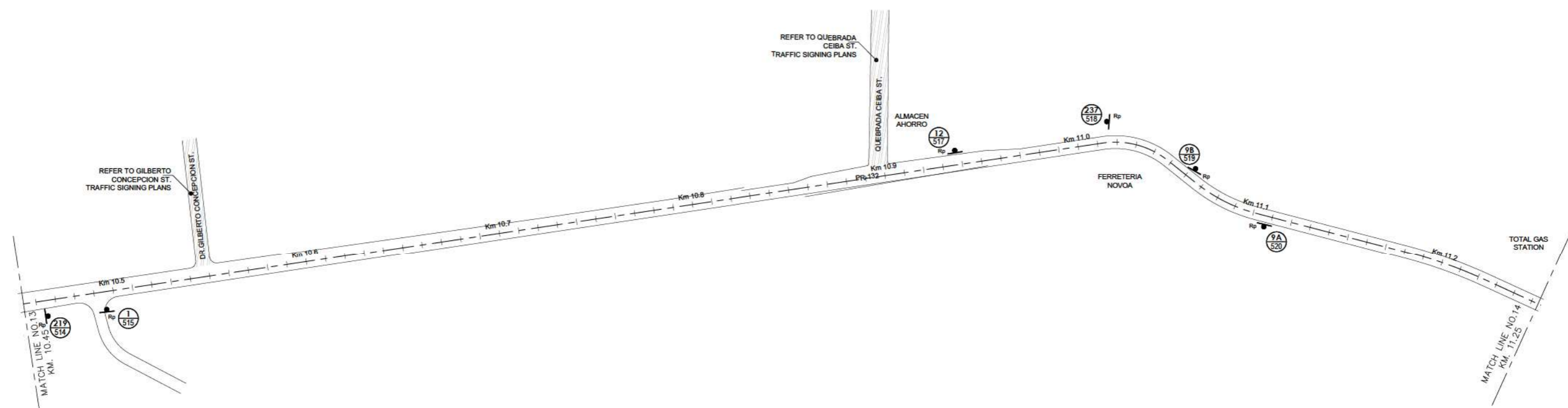
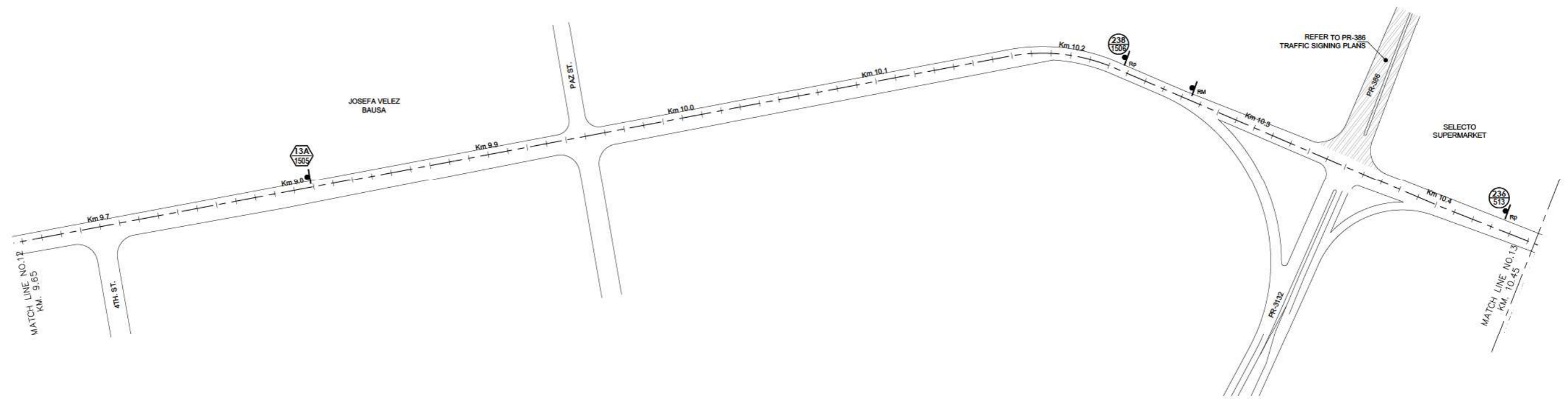
PUERTO RICO HIGHWAY AND
TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	142	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
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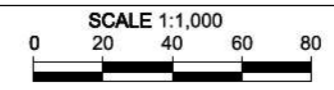
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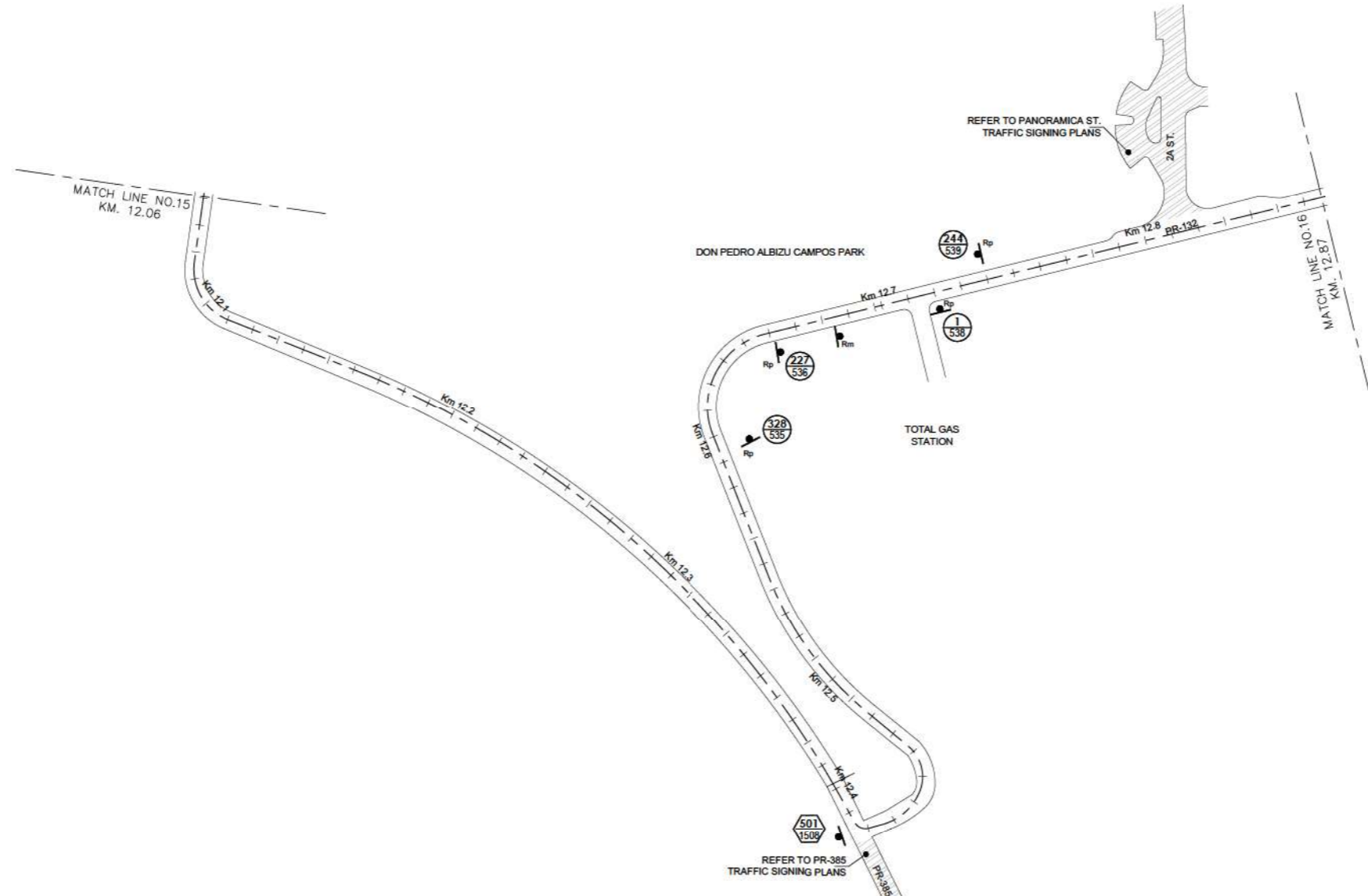
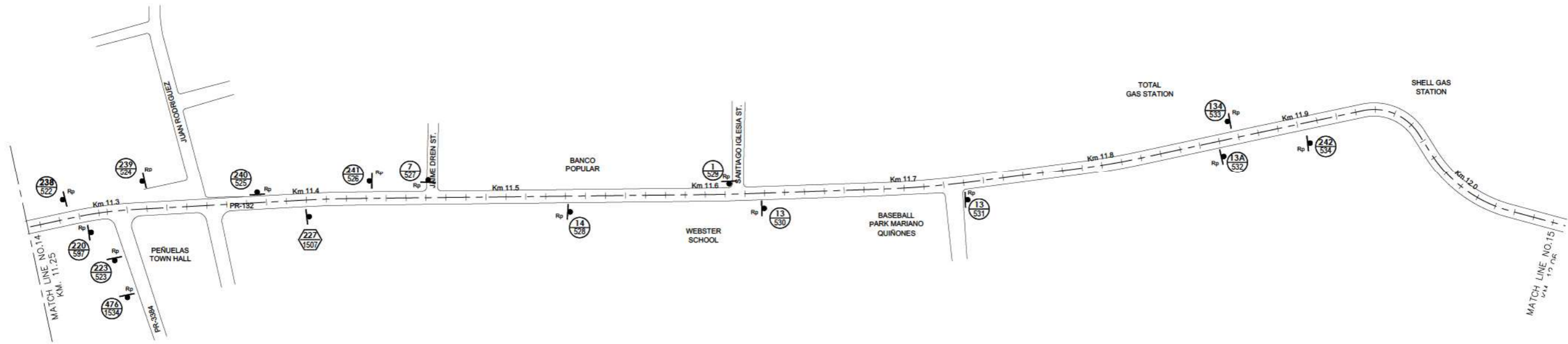
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	143	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

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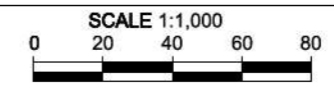
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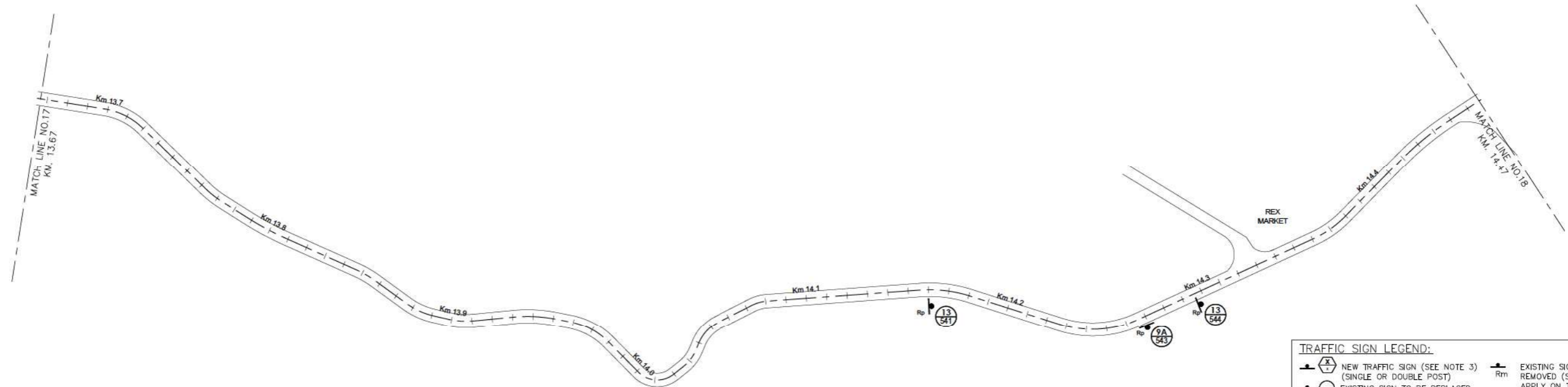
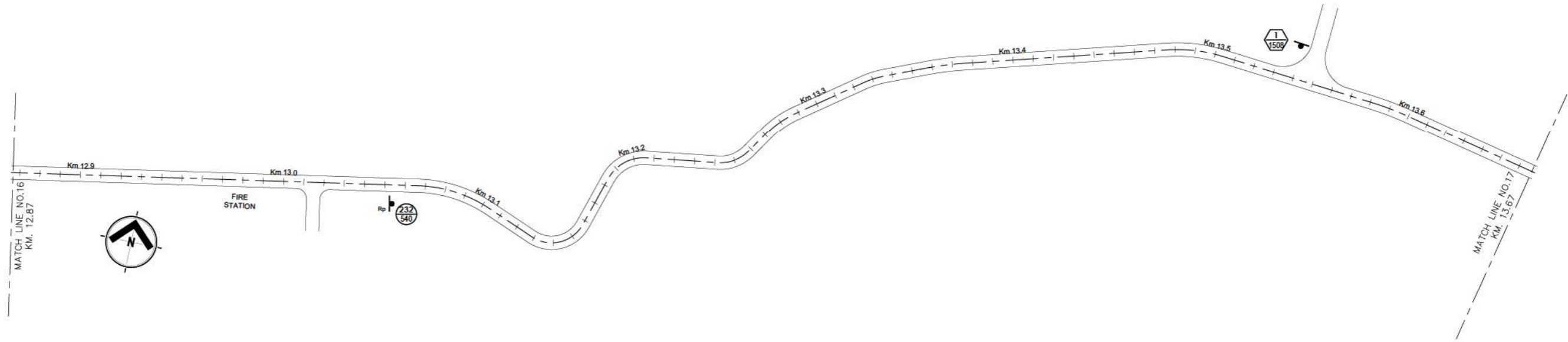
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	144	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
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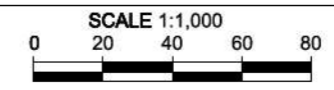
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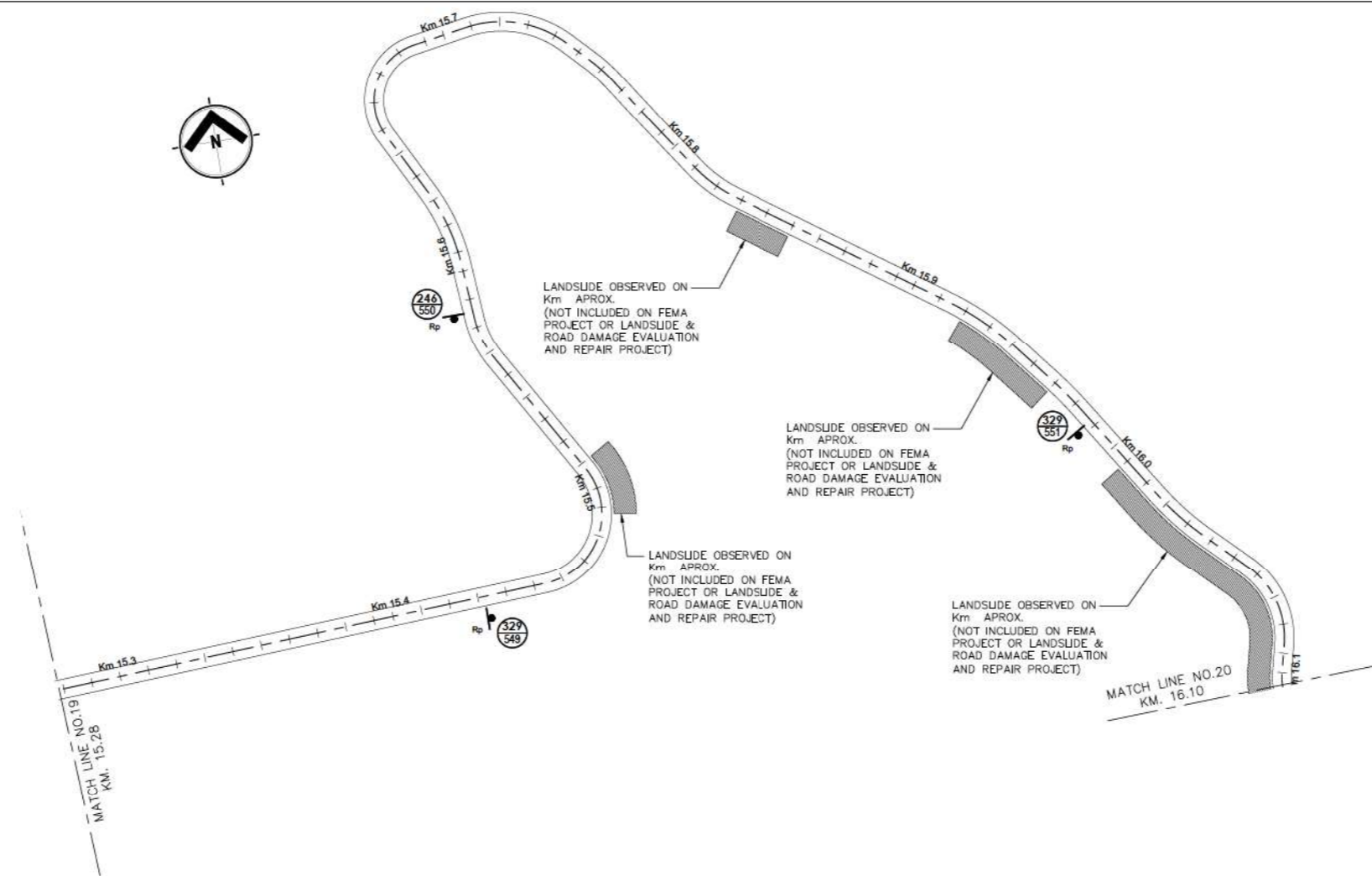
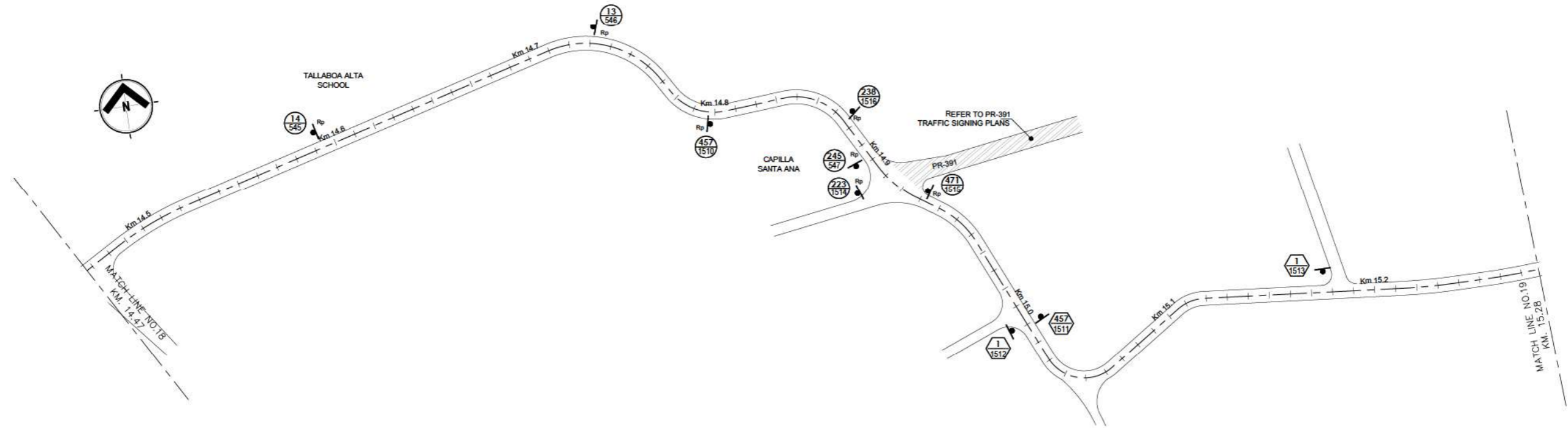


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
 HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R.-132, FROM KM 0.0 TO KM 25.50
 GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	146	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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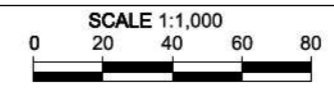
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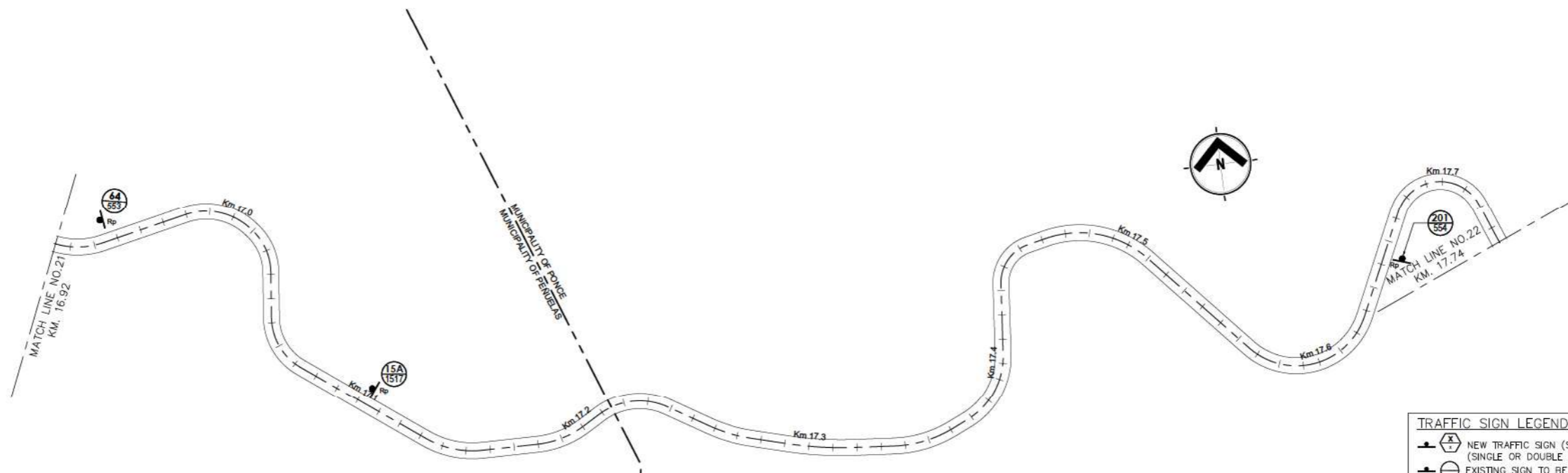
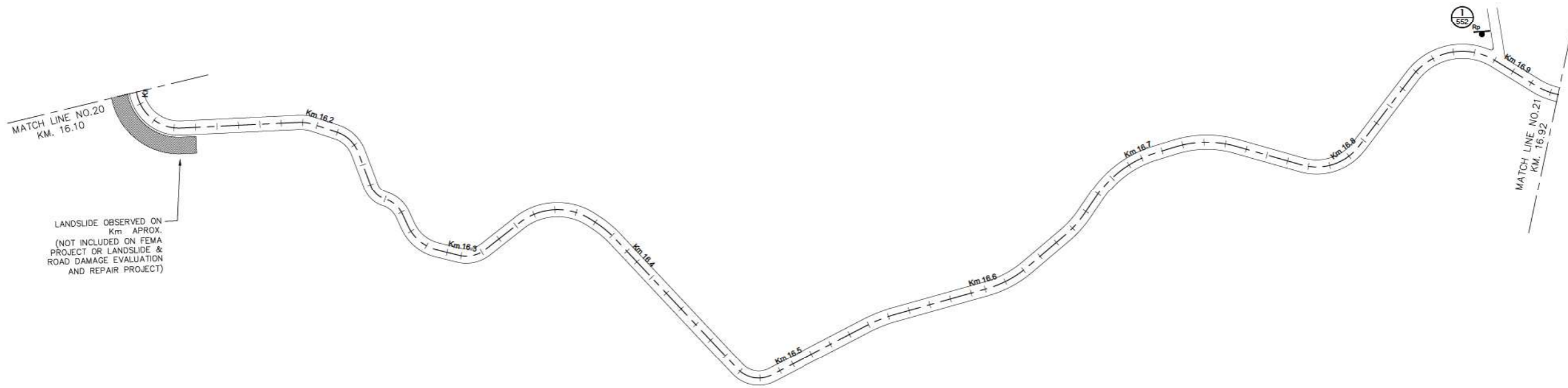
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	146	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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WORK	BY	DATE
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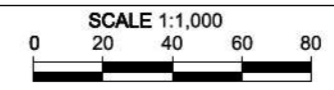
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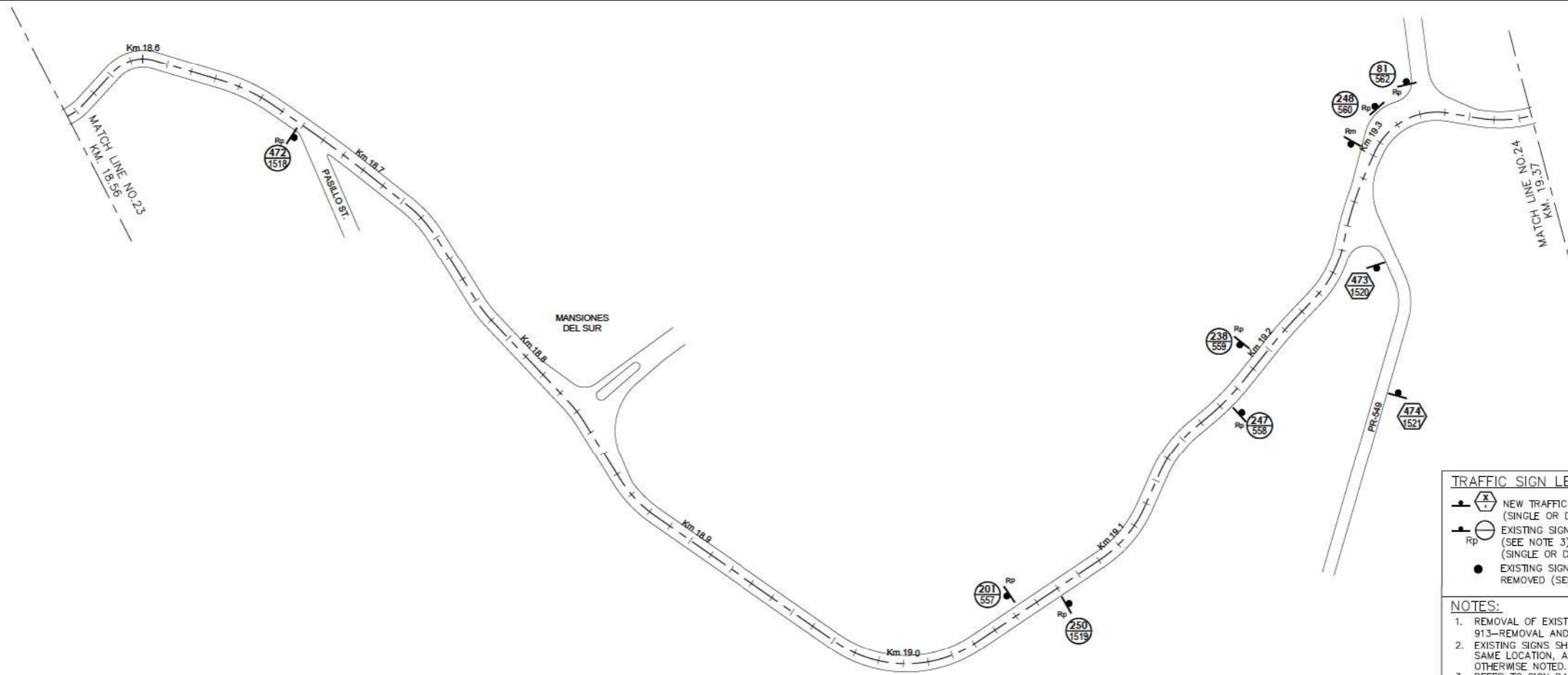
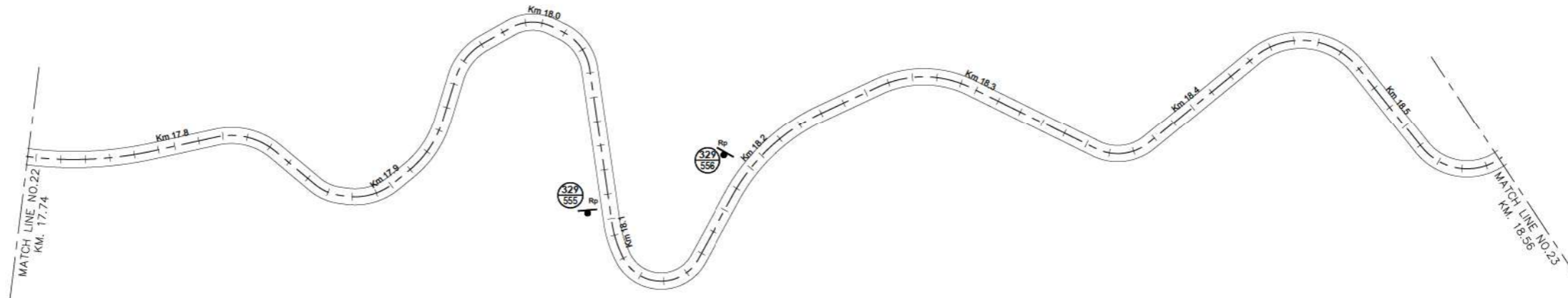
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



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ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	147	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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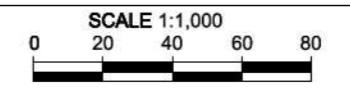
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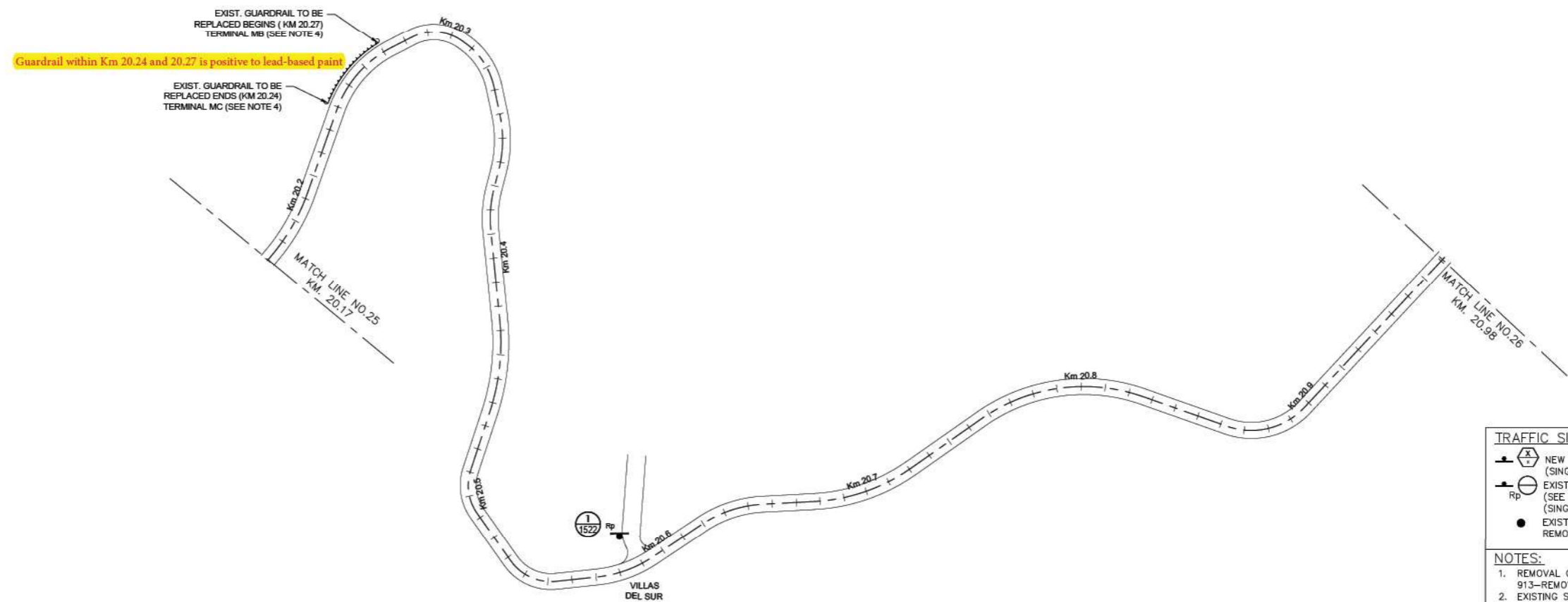
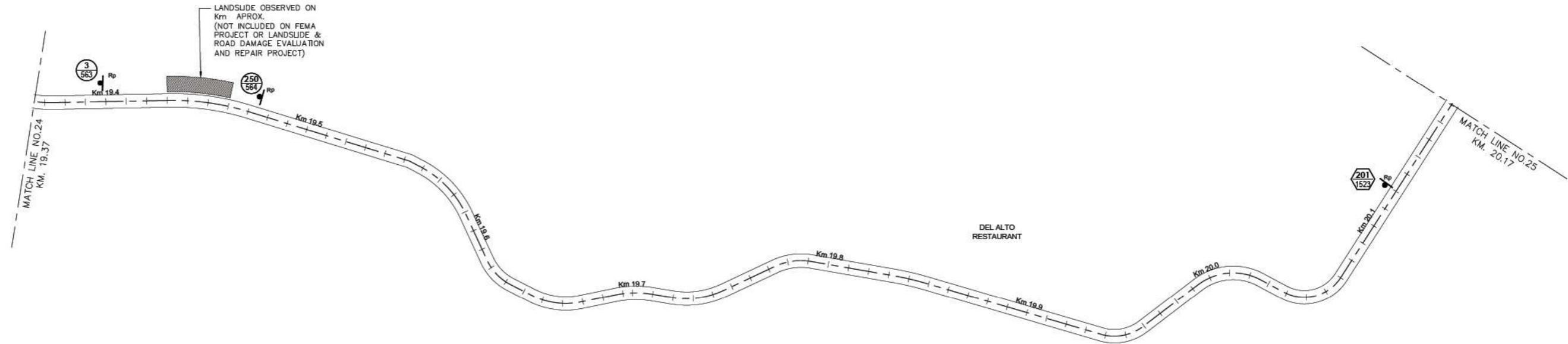
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
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ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	148	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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WORK	BY	DATE
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CHECK		
FINAL CHECK		

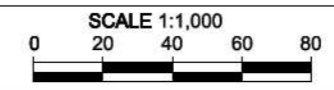
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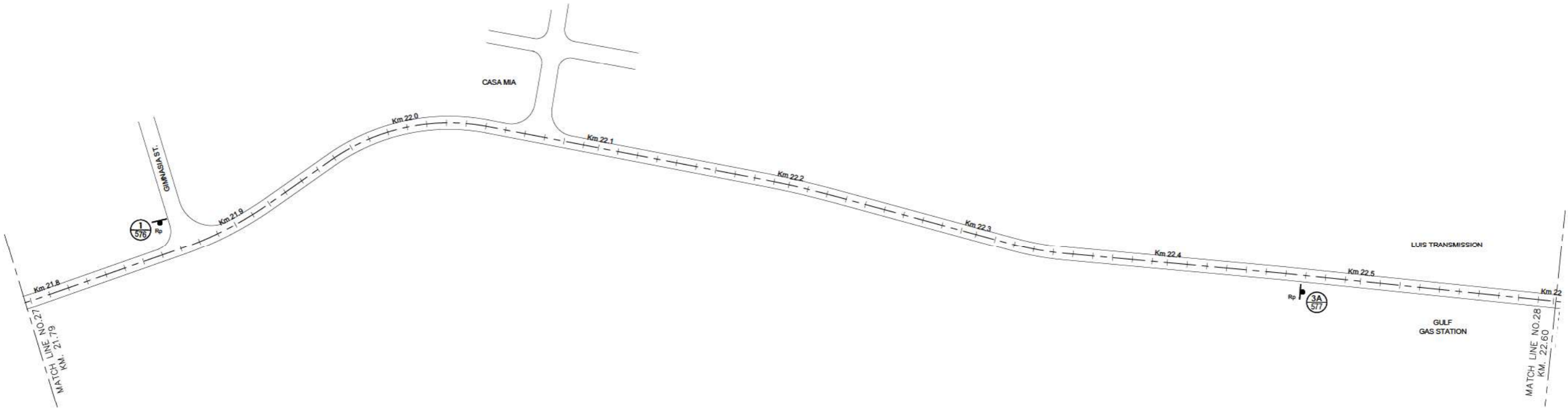
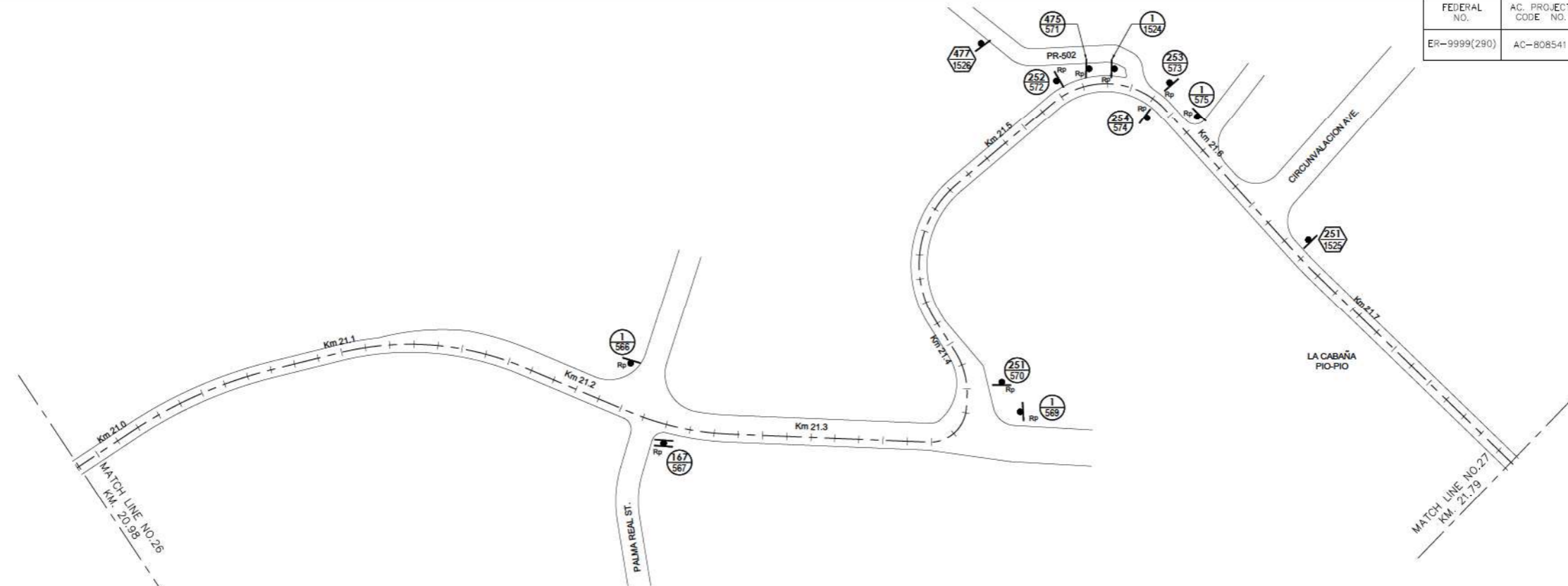
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	140	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

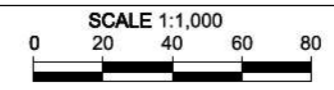
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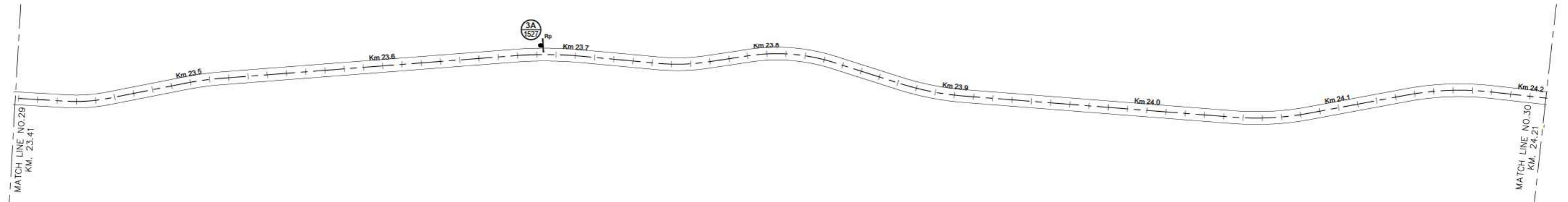
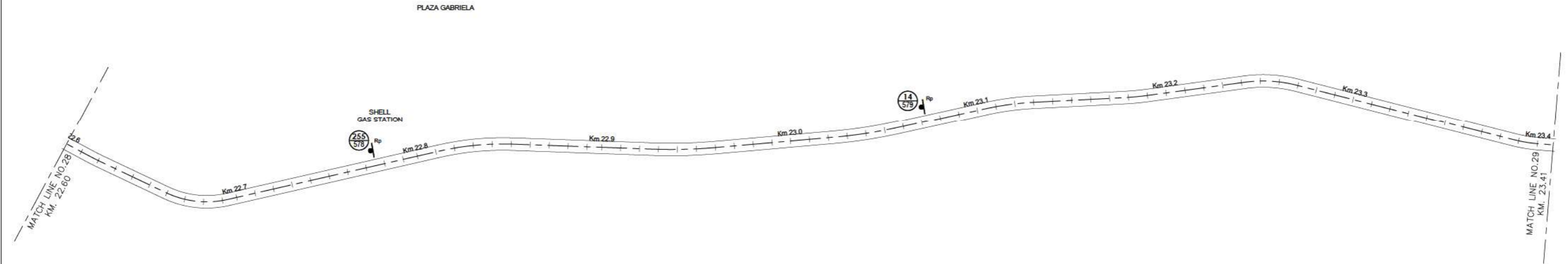
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	150	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

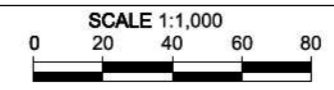
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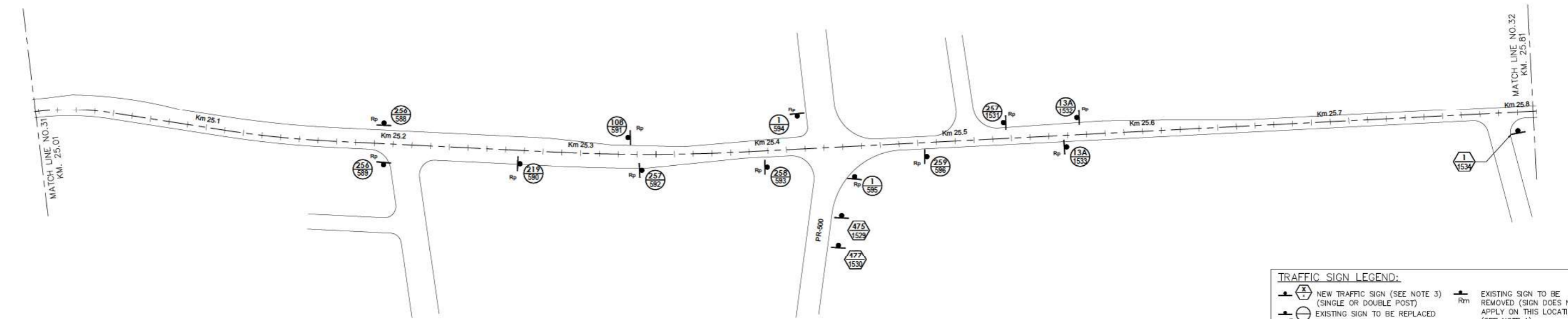
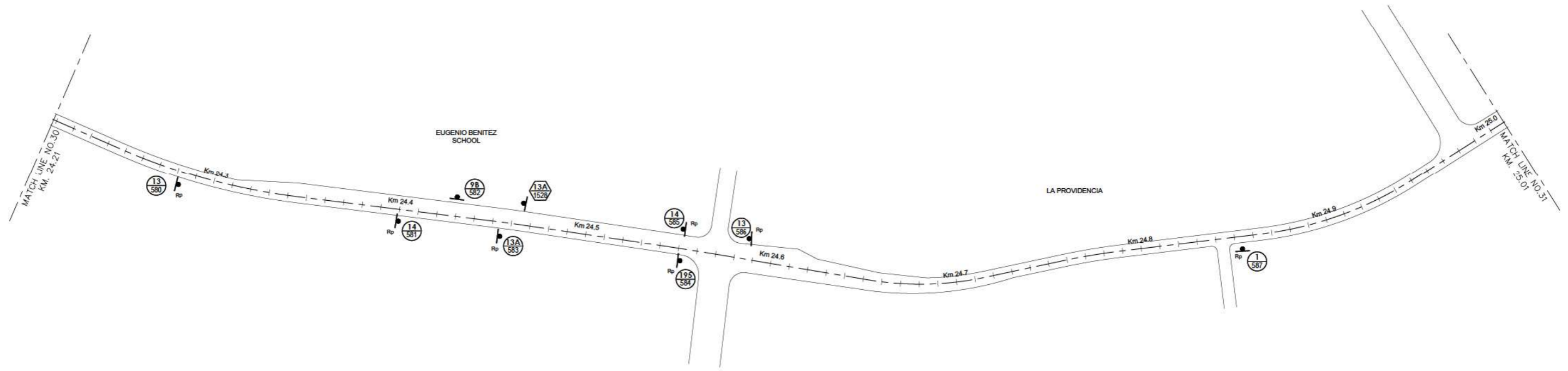
PUERTO RICO HIGHWAY AND
TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	151	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

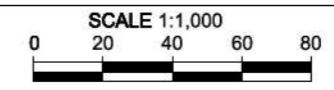
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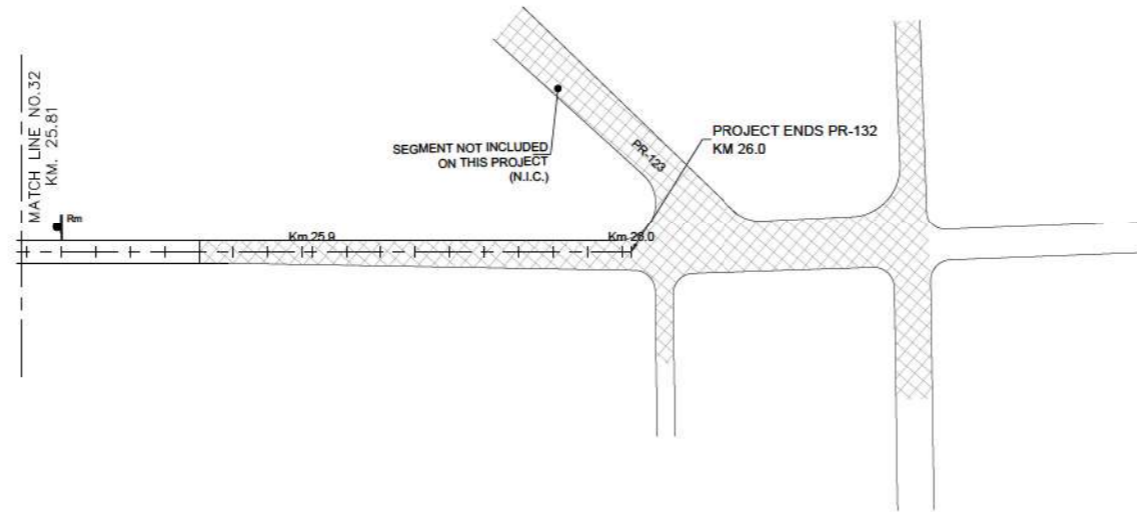
PUERTO RICO HIGHWAY AND
TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-132	GUAYANILLA PEÑUELAS PONCE	PR	2018	152	285



PR-132 GUARDRAILS QUANTITY SUMMARY TABLE			
SPEC.	PAY ITEM	QUANTITY	UNIT
606	REMOVAL, STORAGE AND DELIVERY OF EXISTING GUARDRAILS (ANY TYPE)	30	LNM
606	W-BEAM GUARDRAIL, SINGLE FACE	30	LNM

TRAFFIC SIGN LEGEND:			
	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

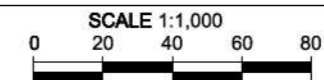
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PUERTO RICO HIGHWAY AND
TRANSPORTATION AUTHORITY

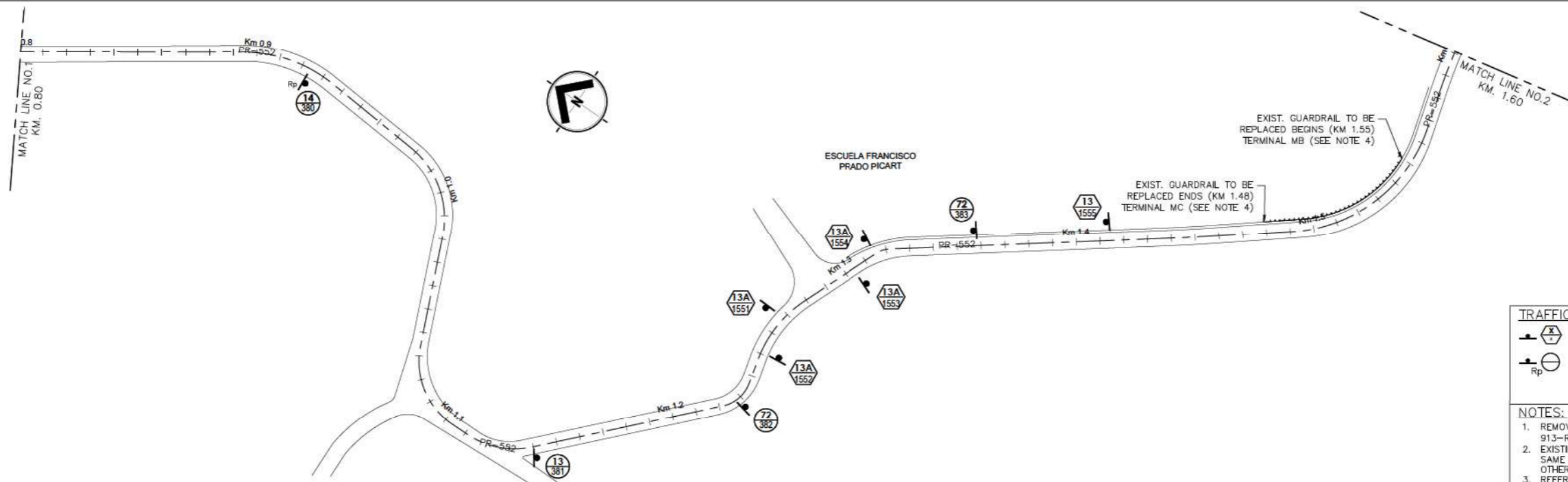
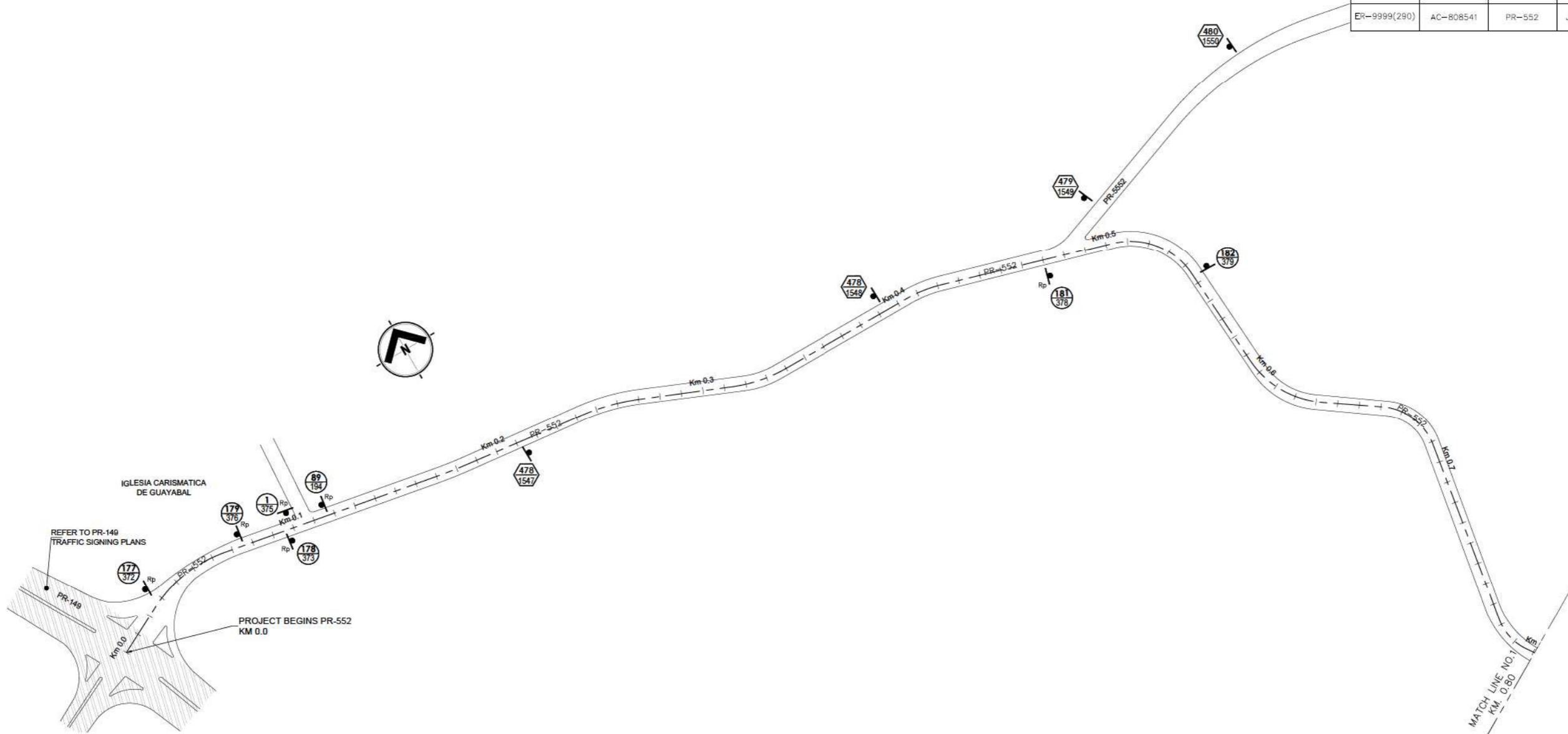
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R.-132, FROM KM 0.0 TO KM 25.50
GUAYANILLA-PEÑUELAS-PONCE, P.R.

DATE	REVISIONS



TRAFFIC SIGNING PLAN

ORACLE NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-552	JUANA DIAZ	PR	2018	196	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.

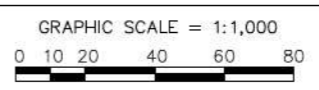
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DRAWING	##	##/##/##
TRACED	##	##/##/##
CHECK	##	##/##/##
FINAL CHECK	##	##/##/##



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
PR-552 FROM KM.0.0 TO KM.3.50
JUANA DIAZ, P.R.

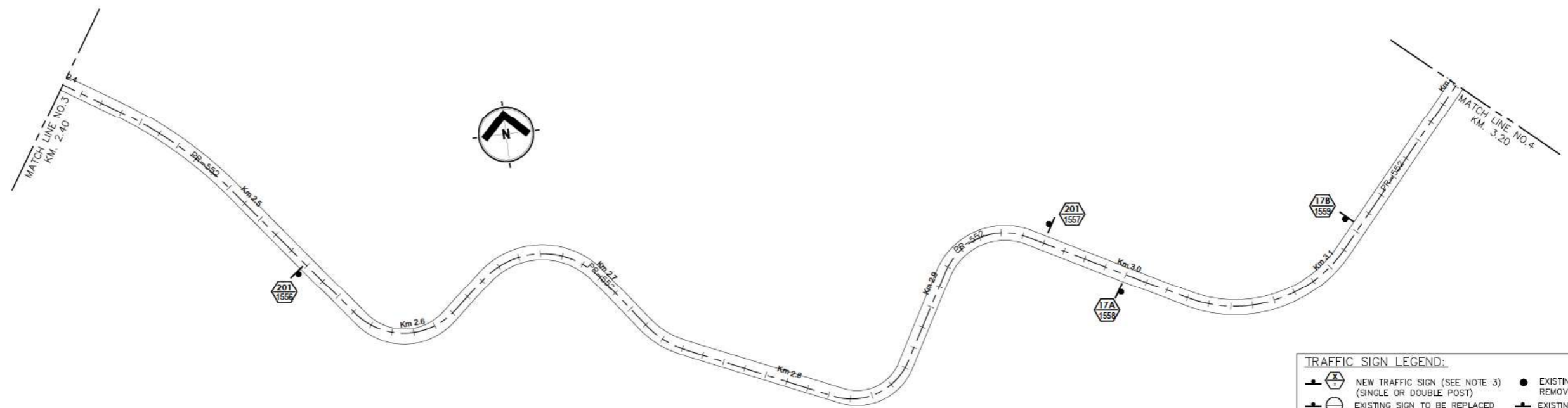
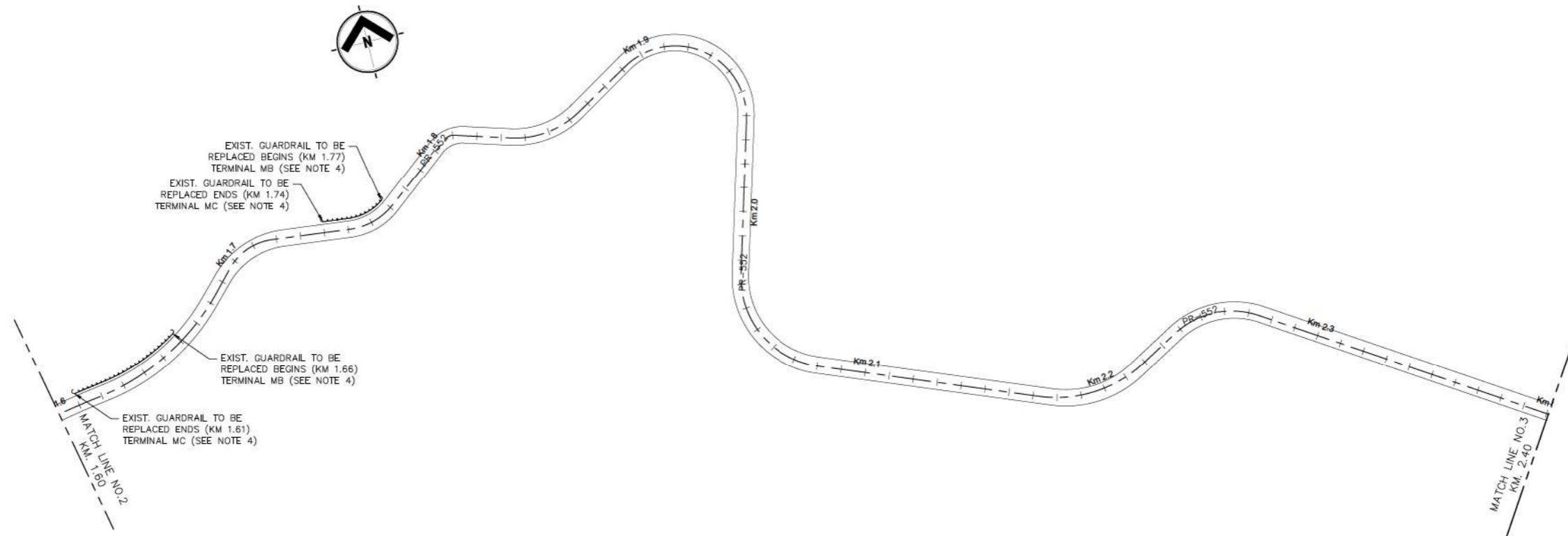
DATE	REVISIONS



TRAFFIC SIGNING PLAN

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0-PRHTA-HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-552\SHR-552-TS-1-3 PLANS.DWG

ORACLE NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-552	JUANA DIAZ	PR	2018	197	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

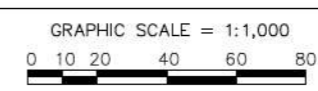
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

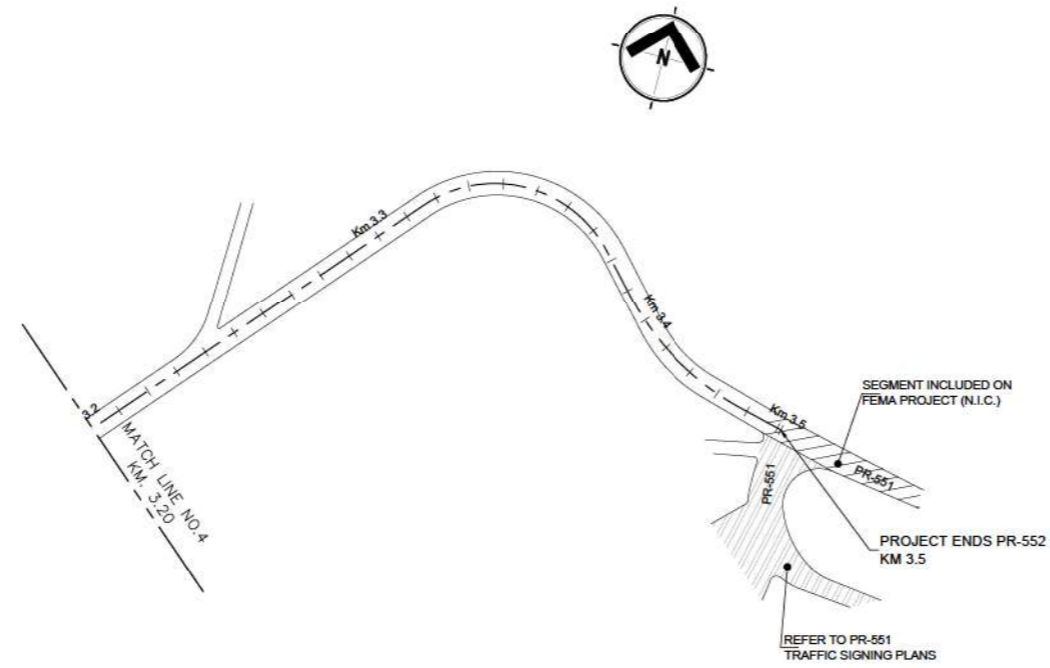
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
PR-552 FROM KM.0.0 TO KM.3.50
JUANA DIAZ, P.R.

DATE	REVISIONS

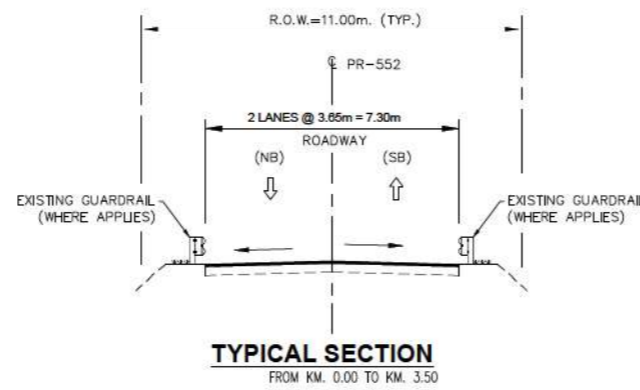


TRAFFIC SIGNING PLAN

ORACLE NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-552	JUANA DIAZ	PR	2018	198	285



SPEC.	PAY ITEM	QUANTITY	UNIT
606	REMOVAL, STORAGE AND DELIVERY OF EXISTING GUARDRAILS (ANY TYPE)	150	LNLM
606	W-BEAM GUARDRAIL, SINGLE FACE	150	LNLM



	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)

- NOTES:
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

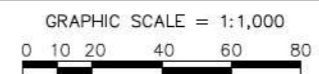
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

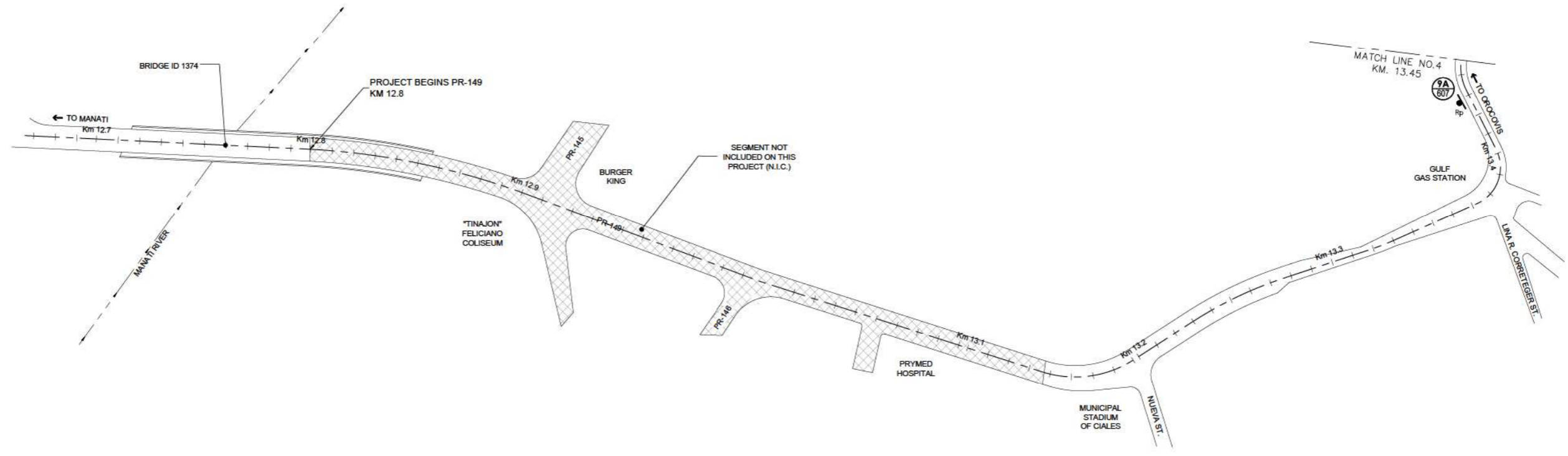
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
PR-552 FROM KM.0.0 TO KM.3.50
JUANA DIAZ, P.R.

DATE	REVISIONS



TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	213	285



WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG

TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS. MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

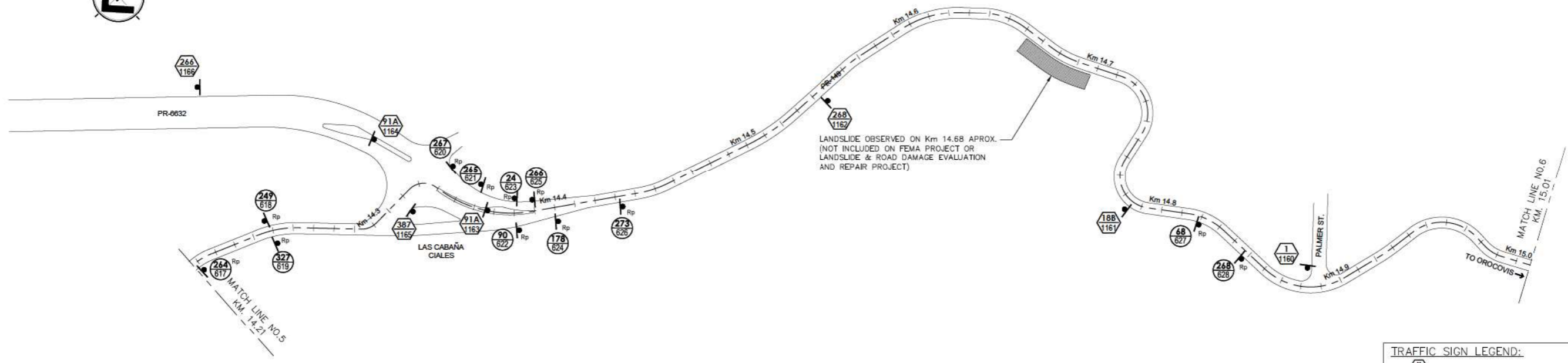
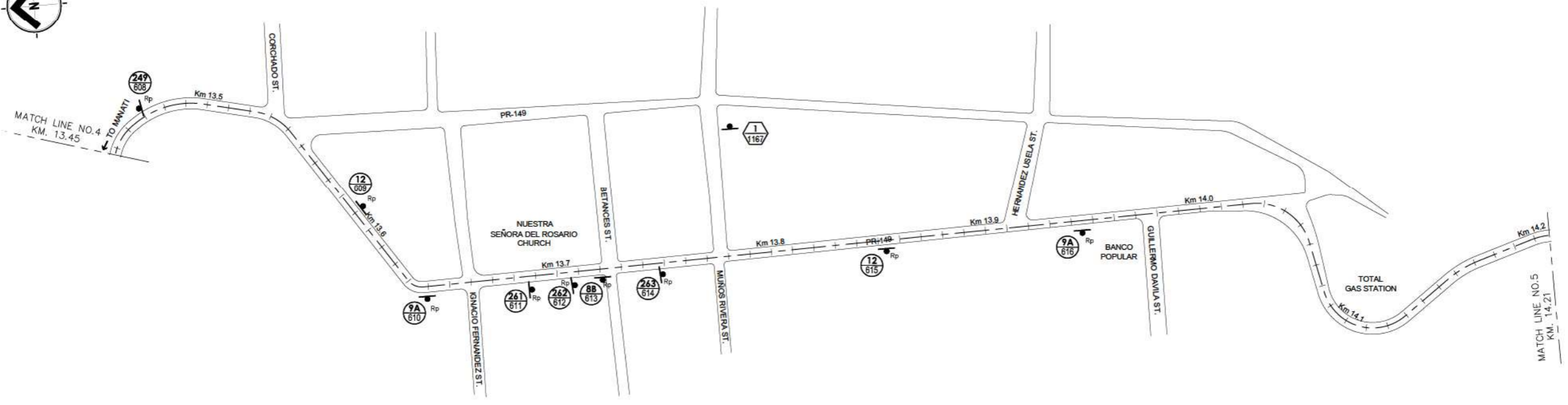


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	214	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIOPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1-TS-DWG



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

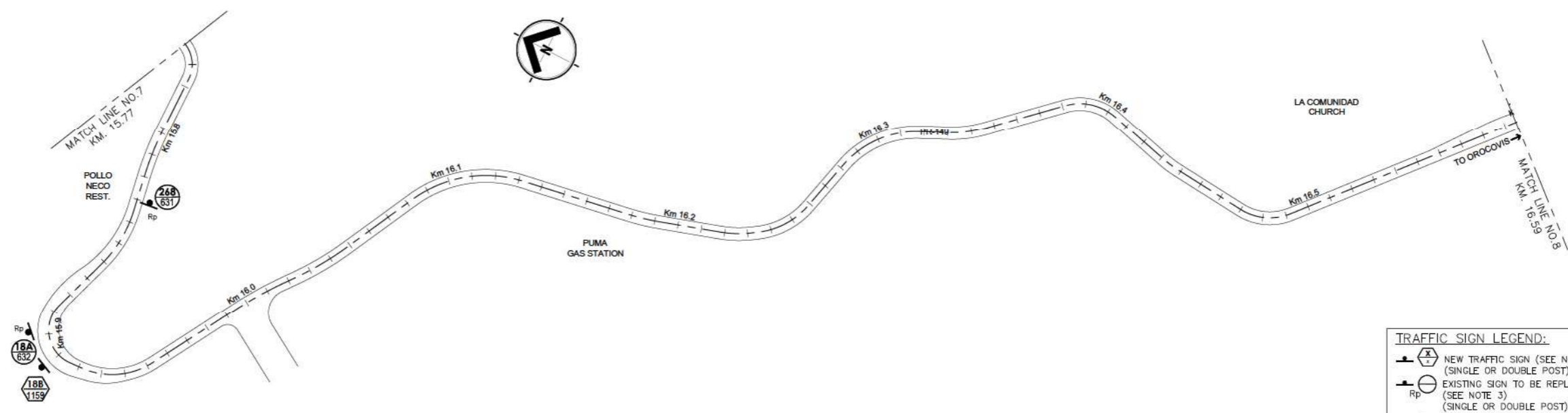
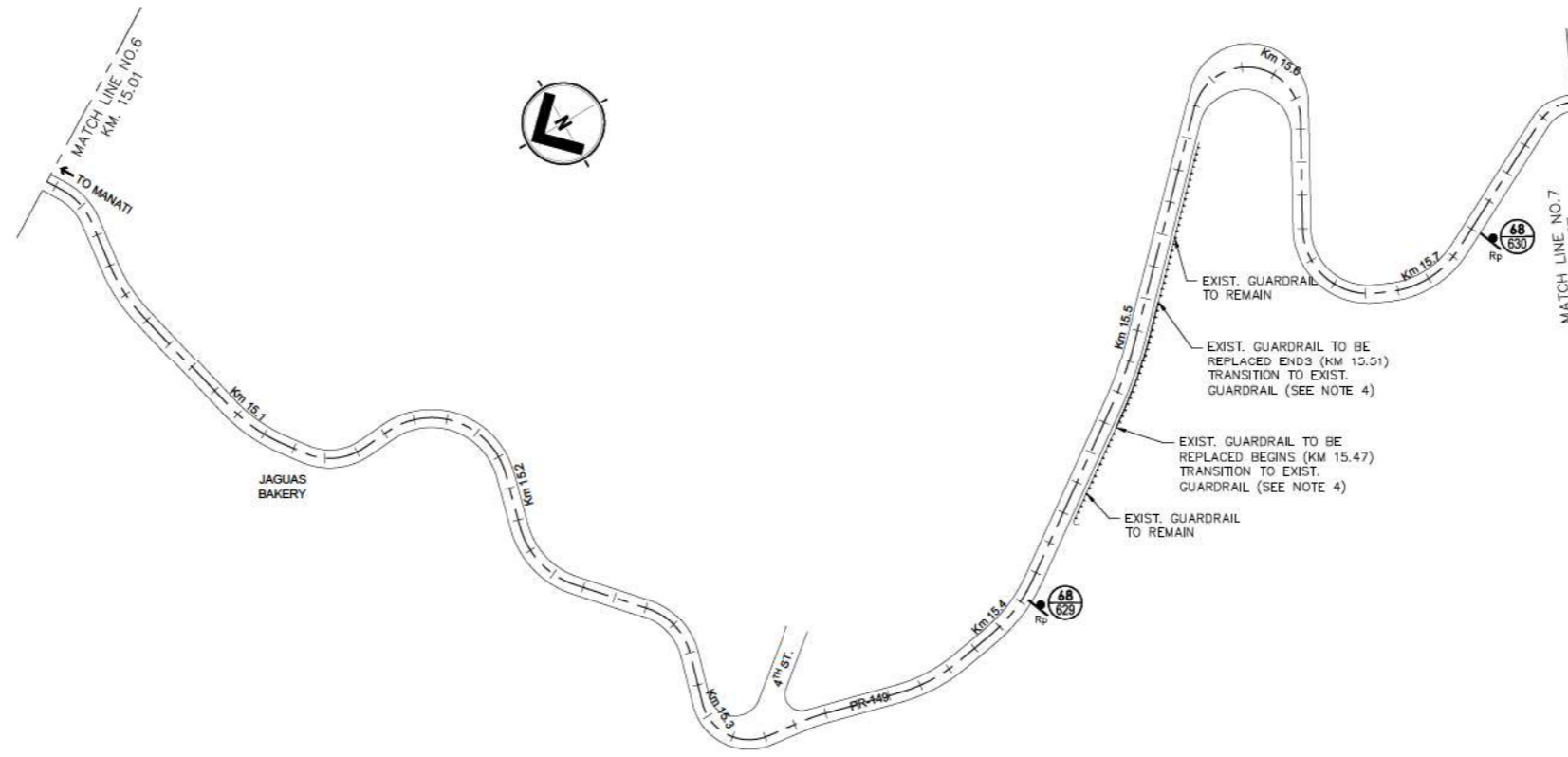
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

TS
207

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	215	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG
 WORK BY DATE
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 DRAWING # # # # #
 TRACED # # # # #
 CHECK # # # # #
 FINAL CHECK # # # # #

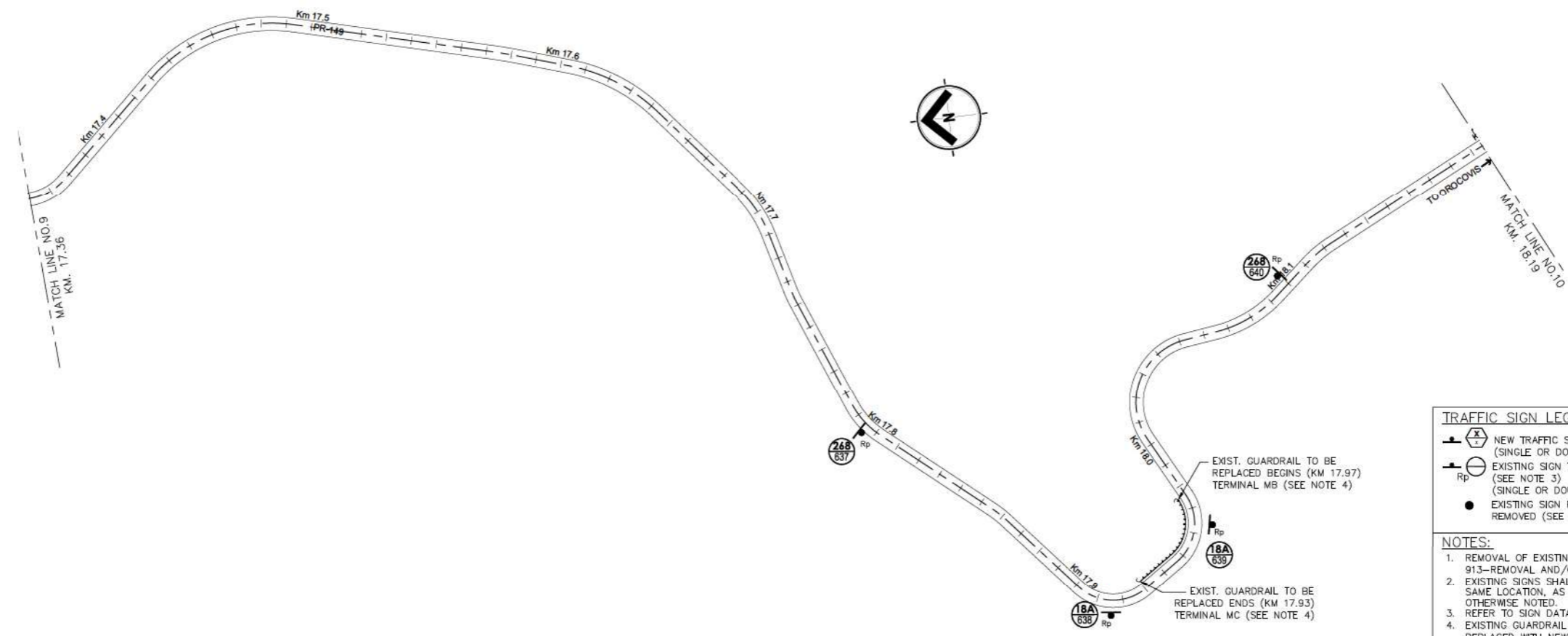
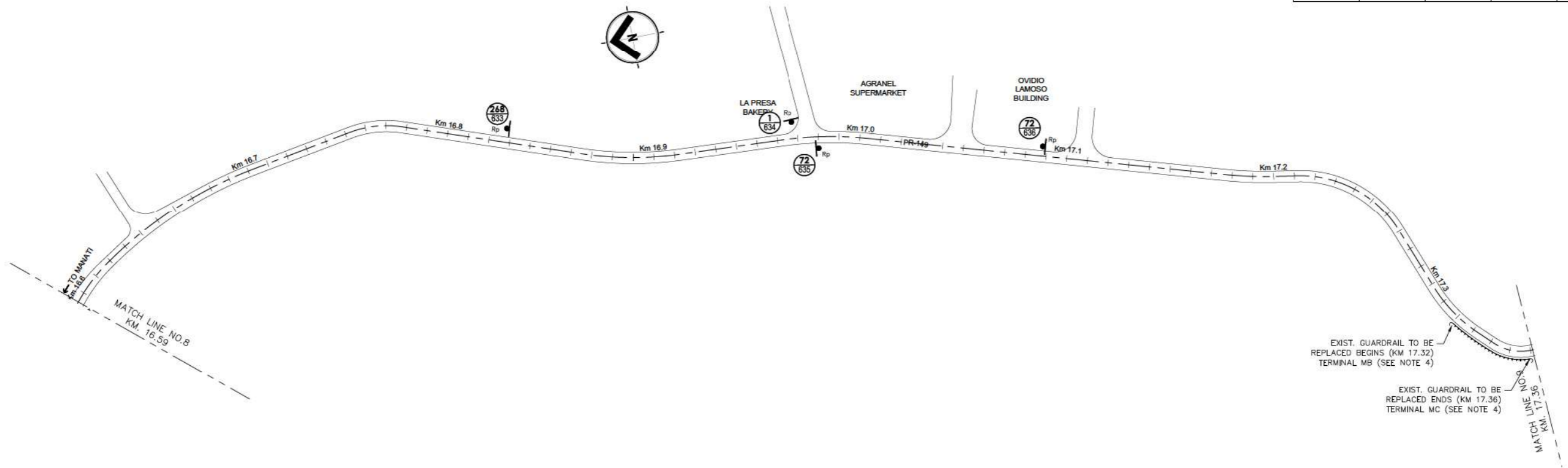


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	216	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG
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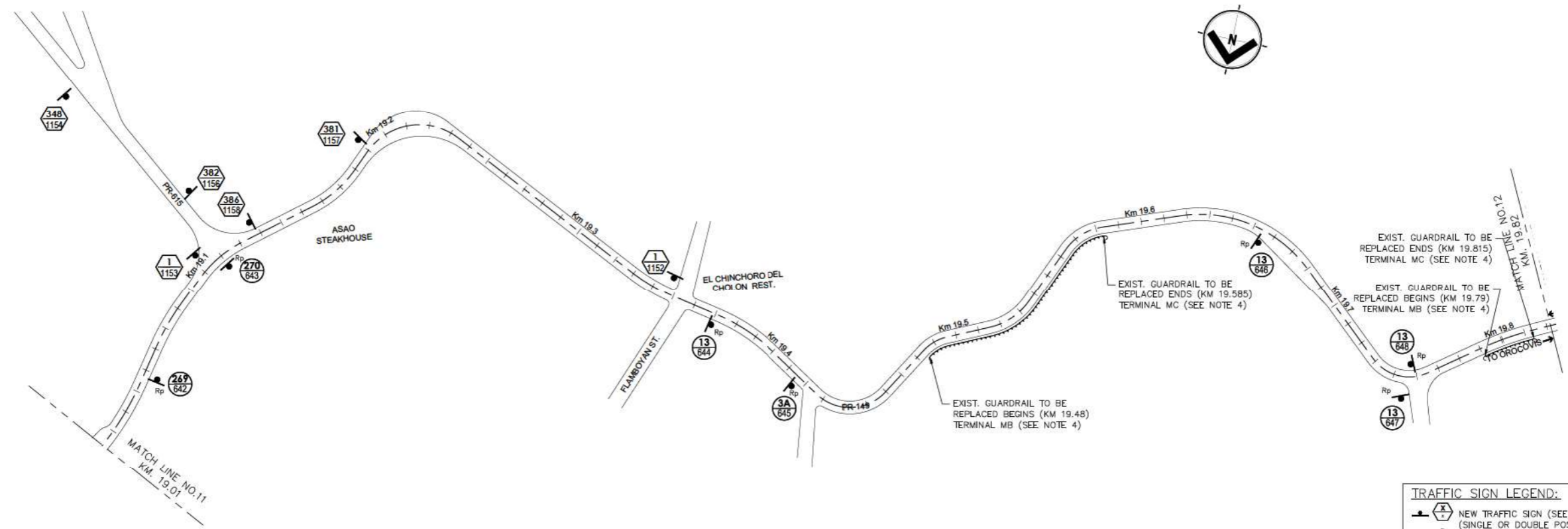
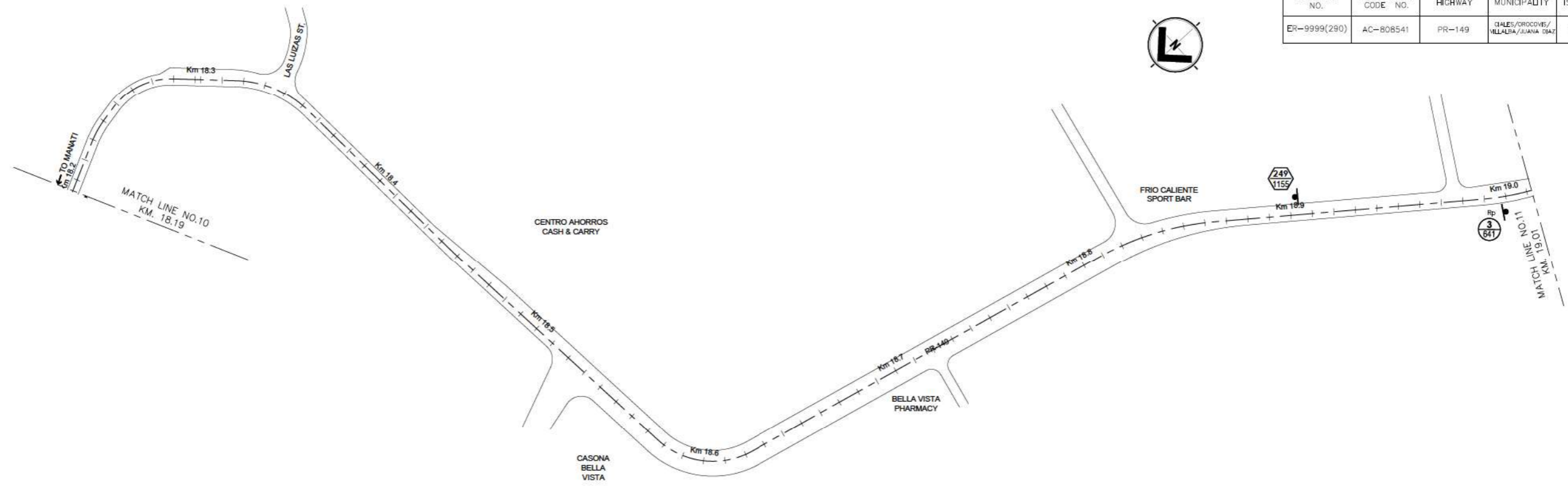


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	217	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

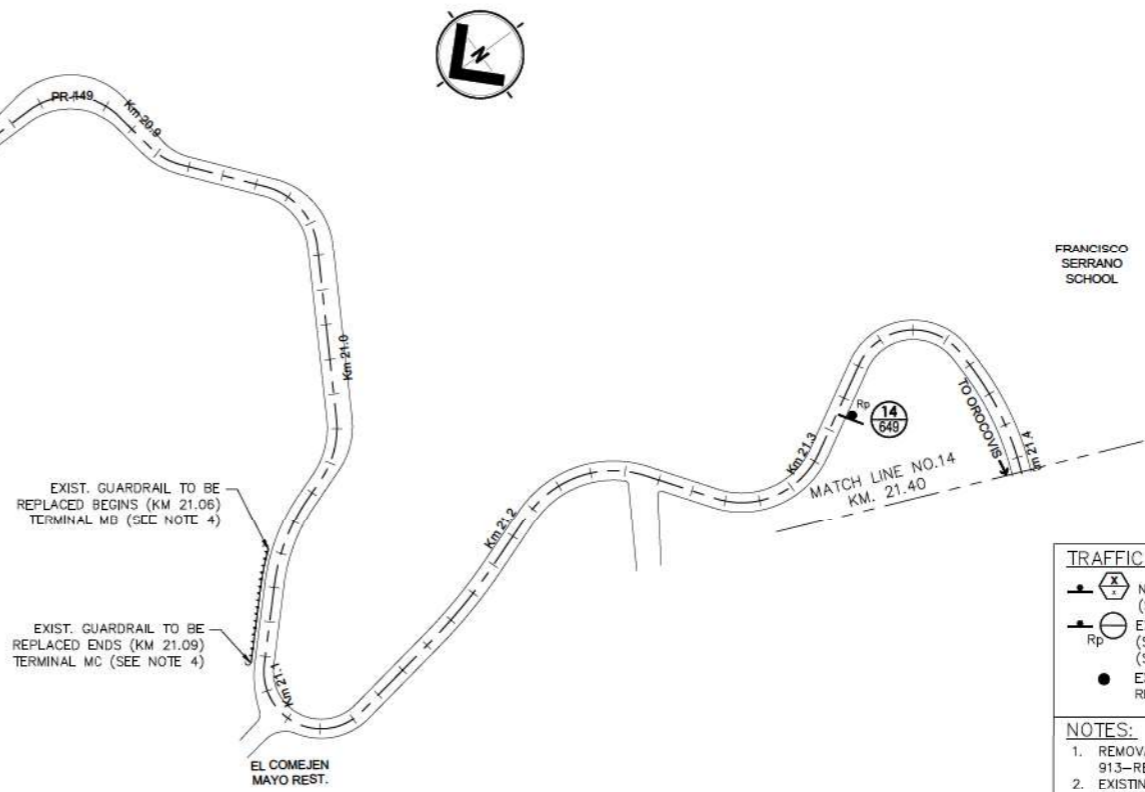
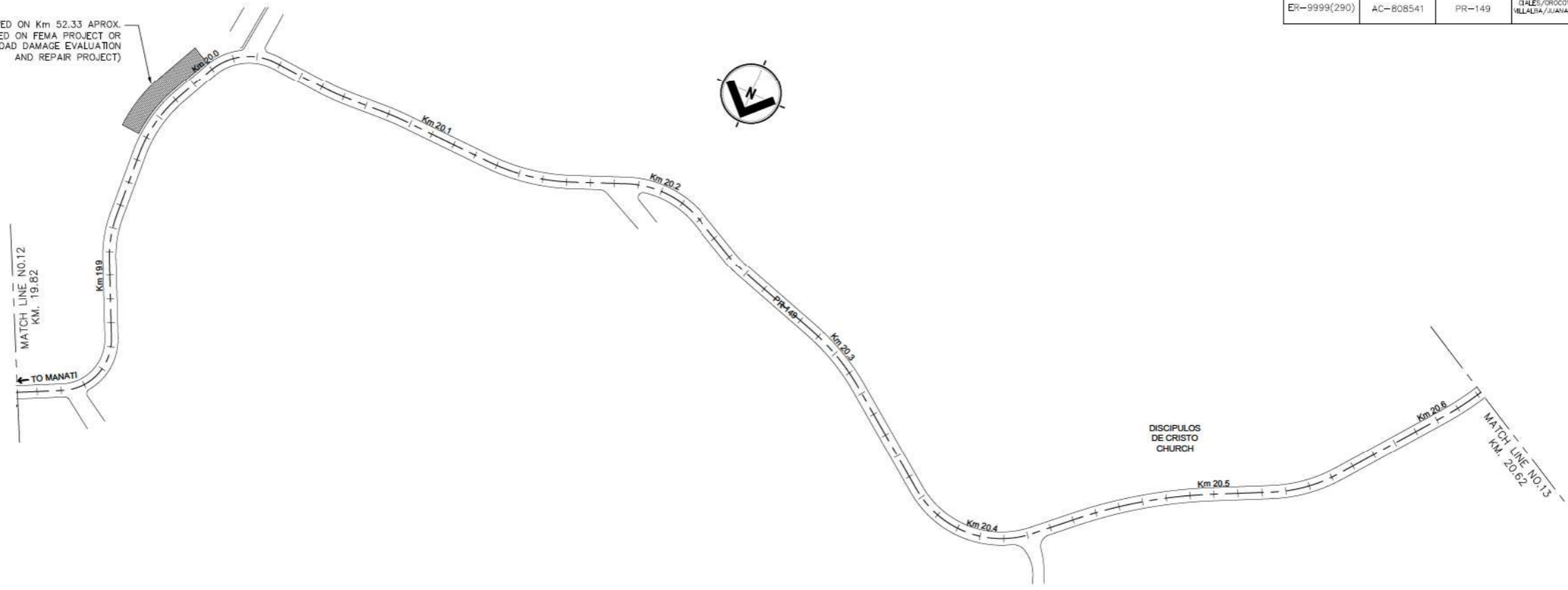
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	218	285

LANDSLIDE OBSERVED ON Km 52.33 APPROX.
(NOT INCLUDED ON FEMA PROJECT OR
LANDSLIDE & ROAD DAMAGE EVALUATION
AND REPAIR PROJECT)



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1-TS-DWG
 WORK BY DATE
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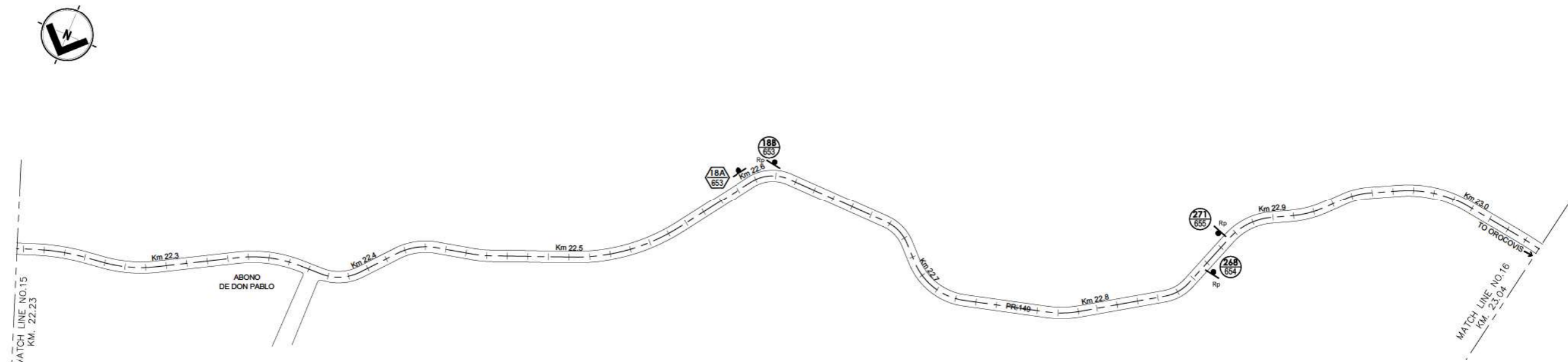
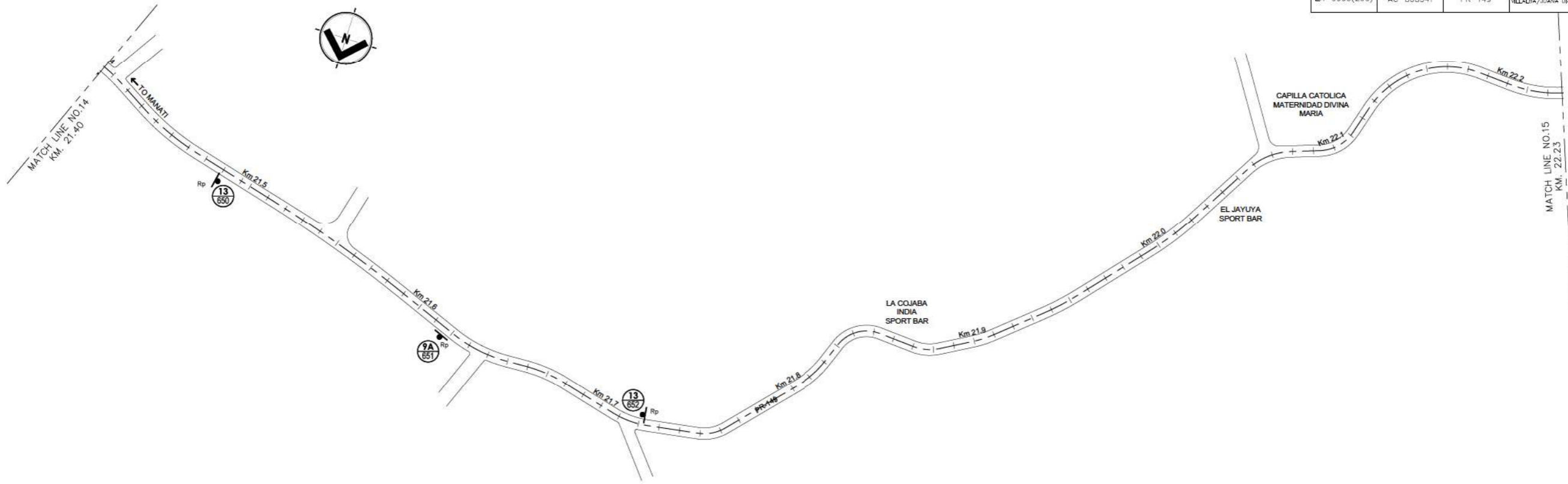
PUERTO RICO HIGHWAY AND
TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	219	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG

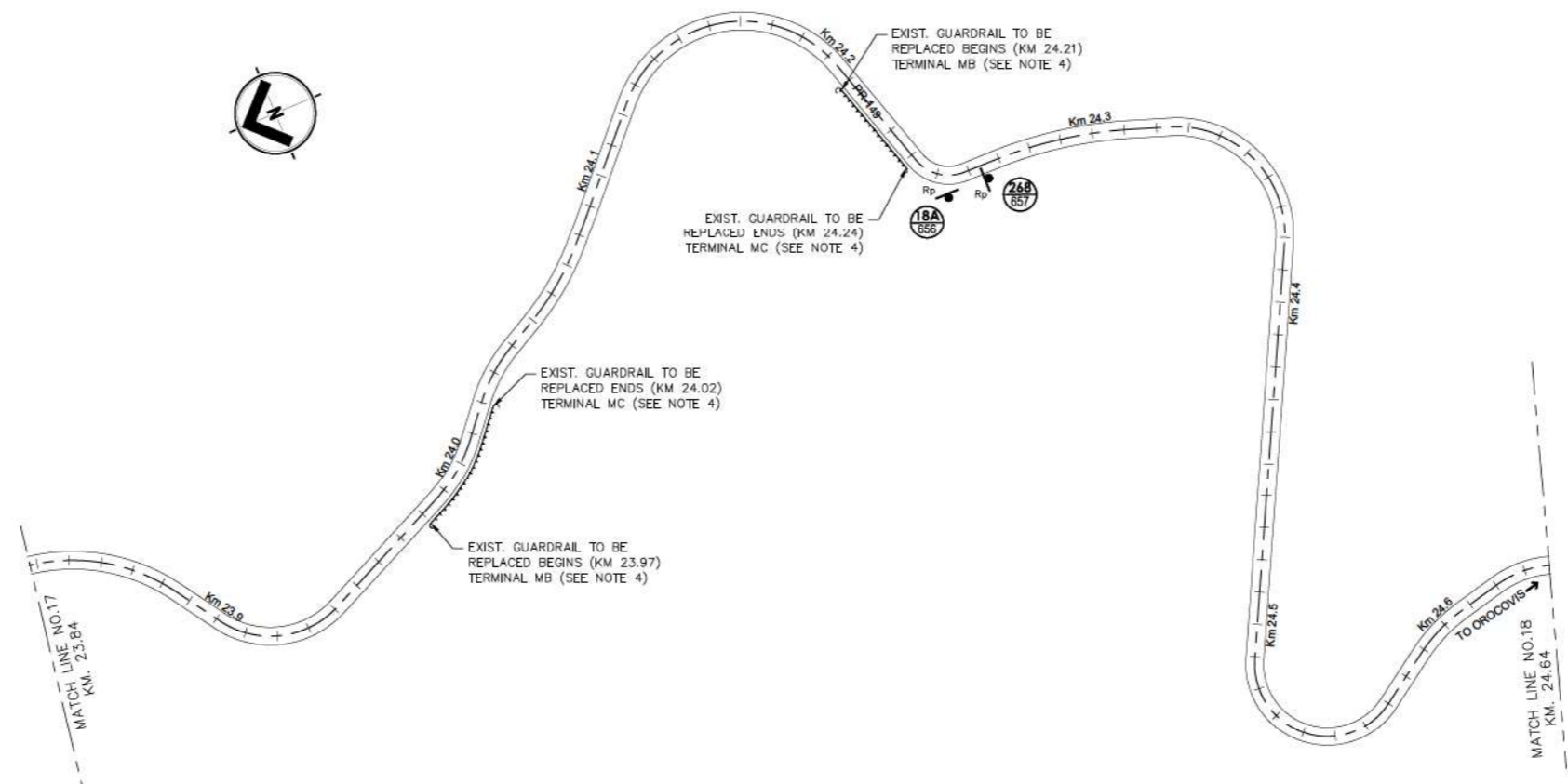
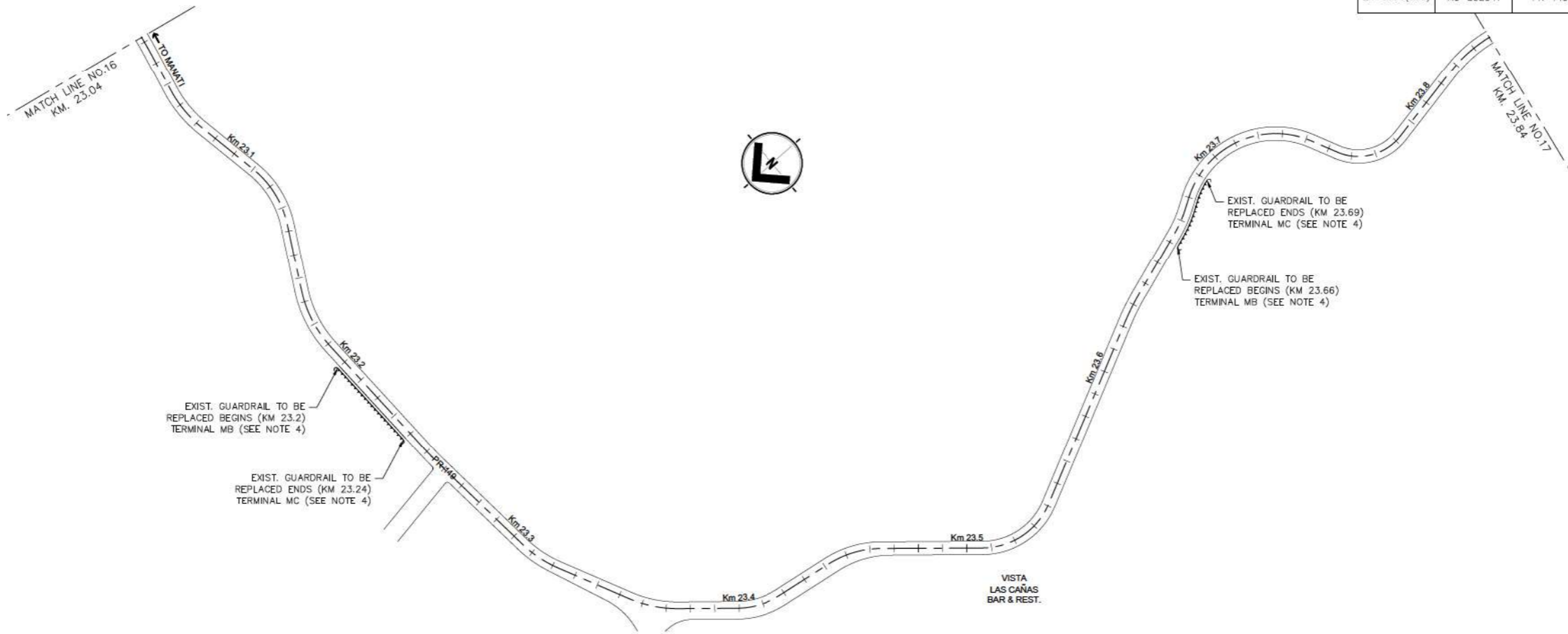


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/ORCOVIS/VILLALBA/JUANA DIAZ	PR	2018	220	285



TRAFFIC SIGN LEGEND:

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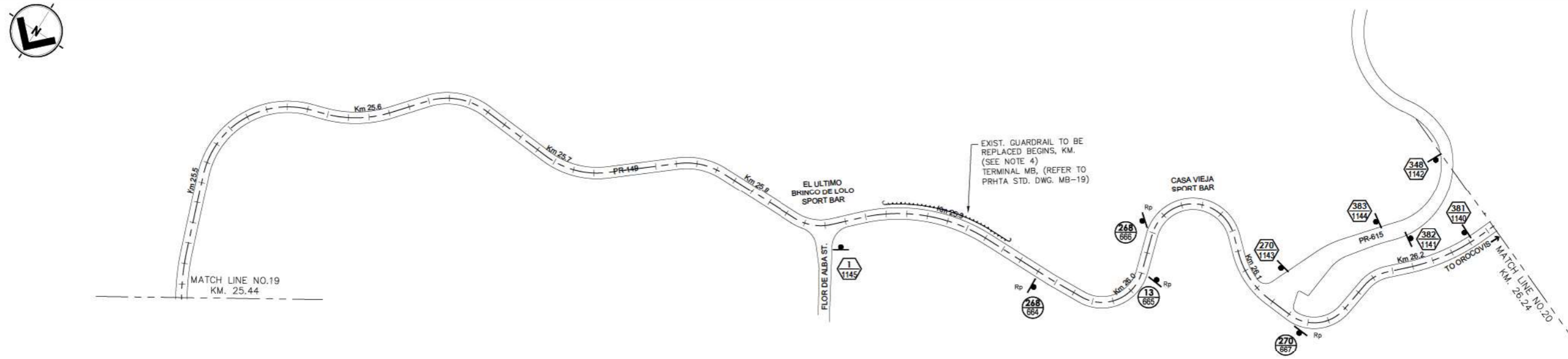
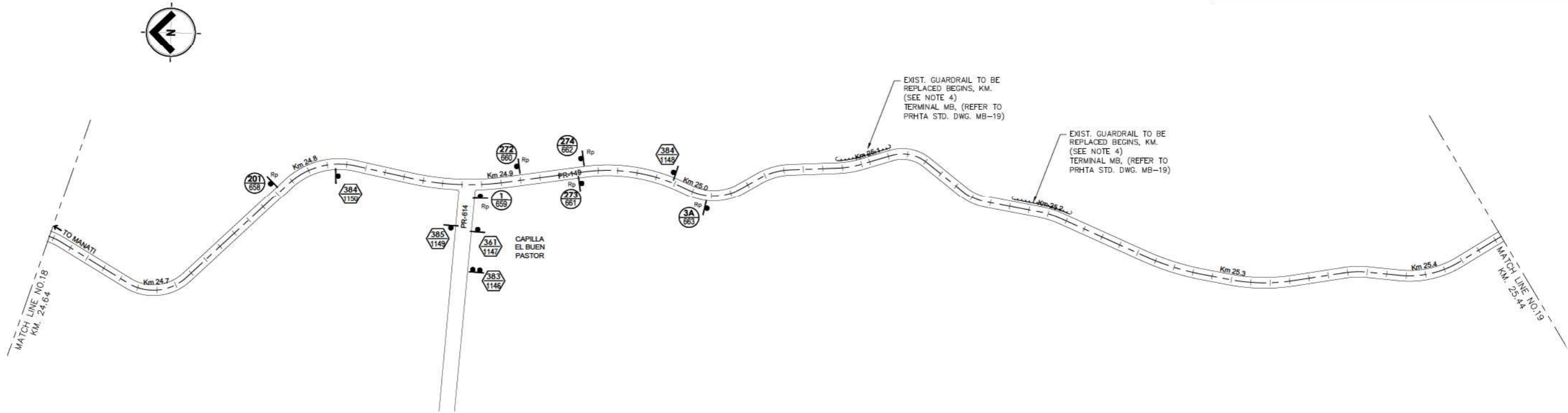
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/ORCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	221	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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WORK	BY	DATE
DESIGN		
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FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIOPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG



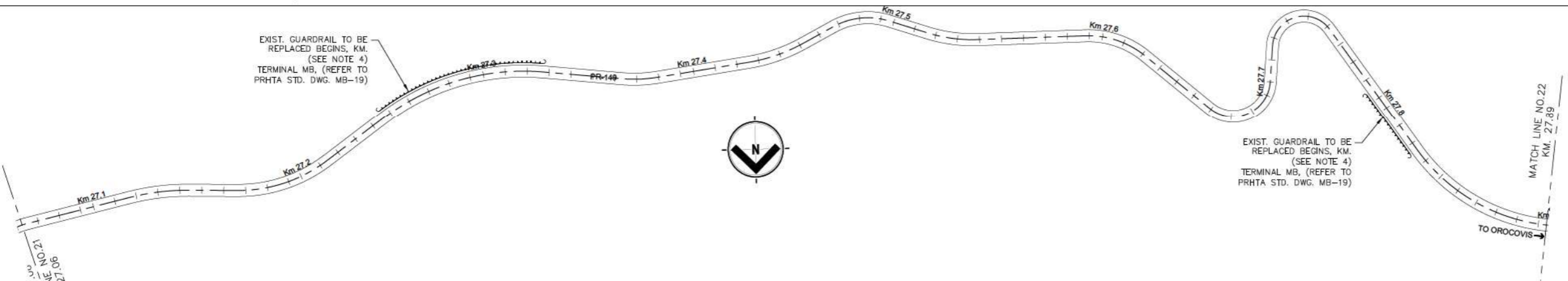
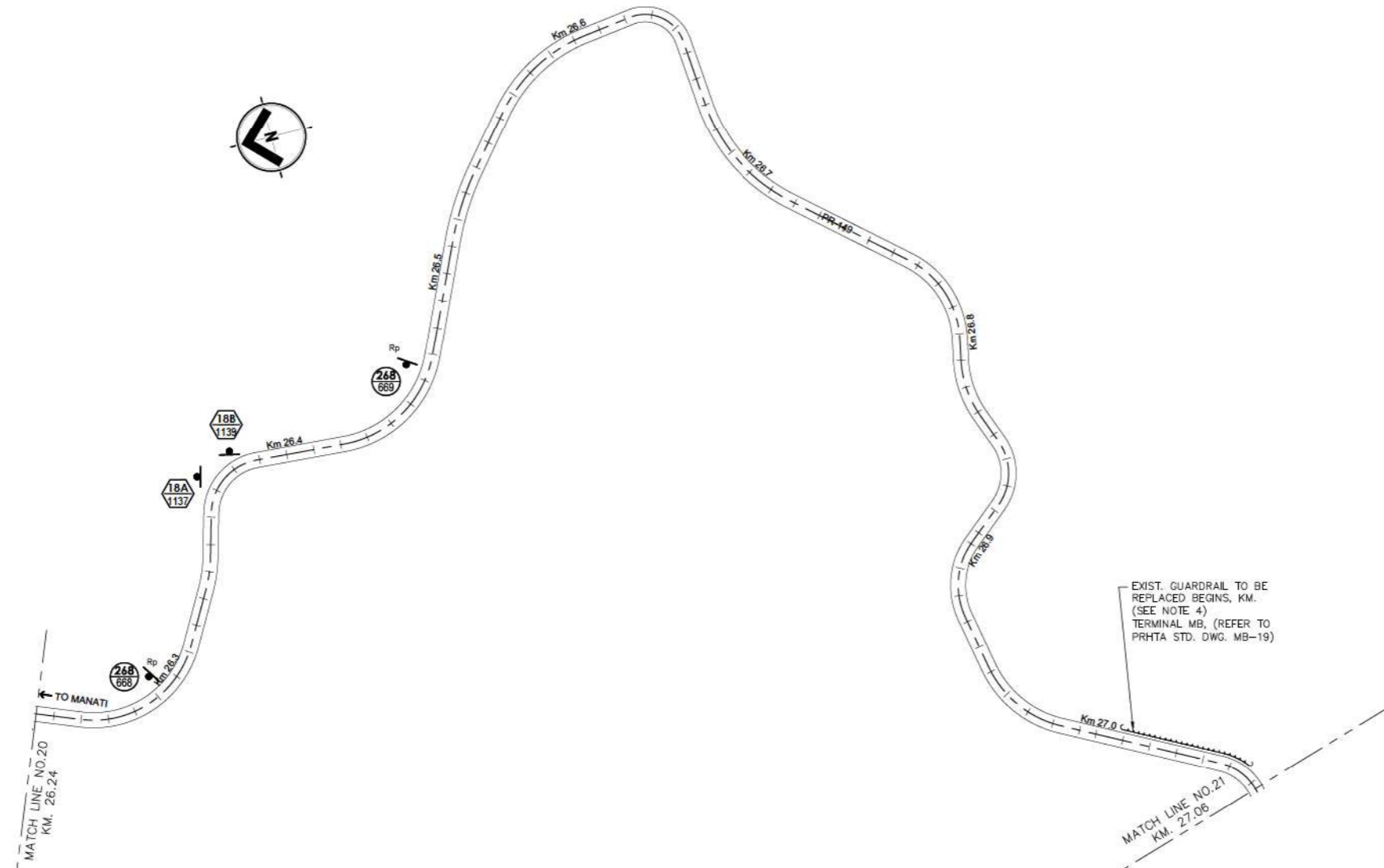
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	222	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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WORK	BY	DATE
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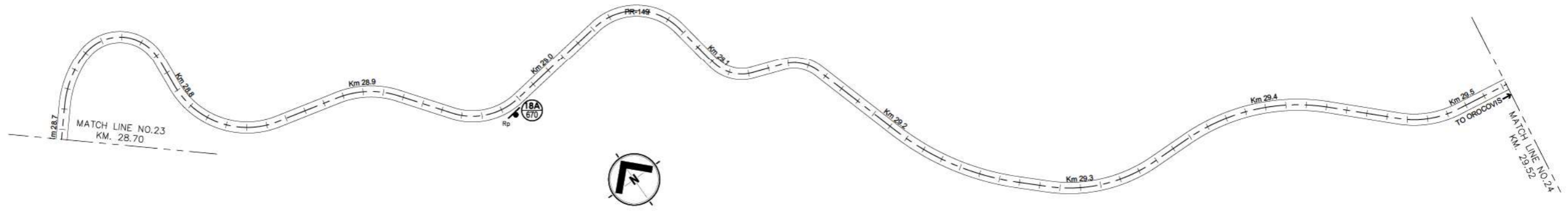
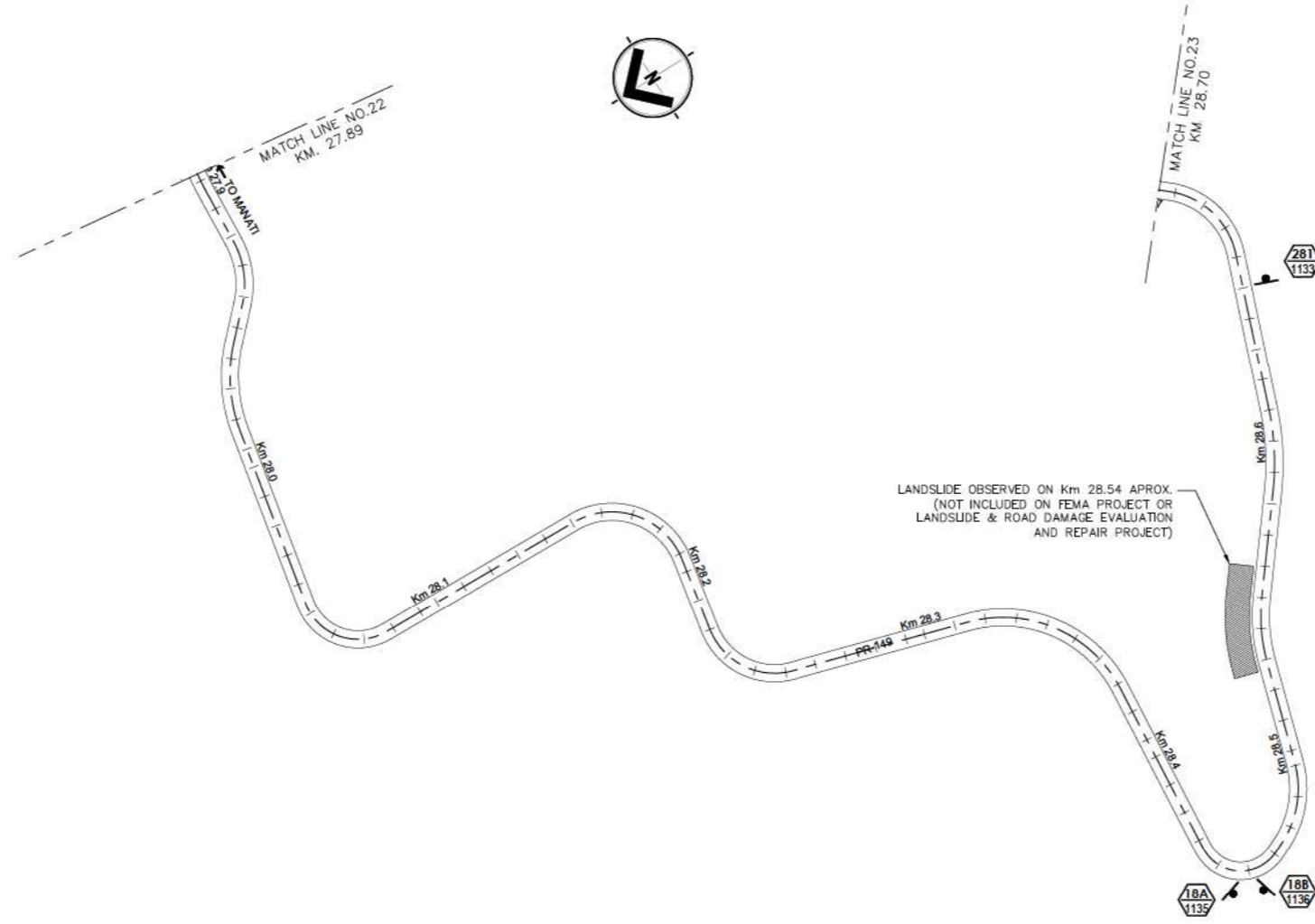


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	223	285



TRAFFIC SIGN LEGEND:

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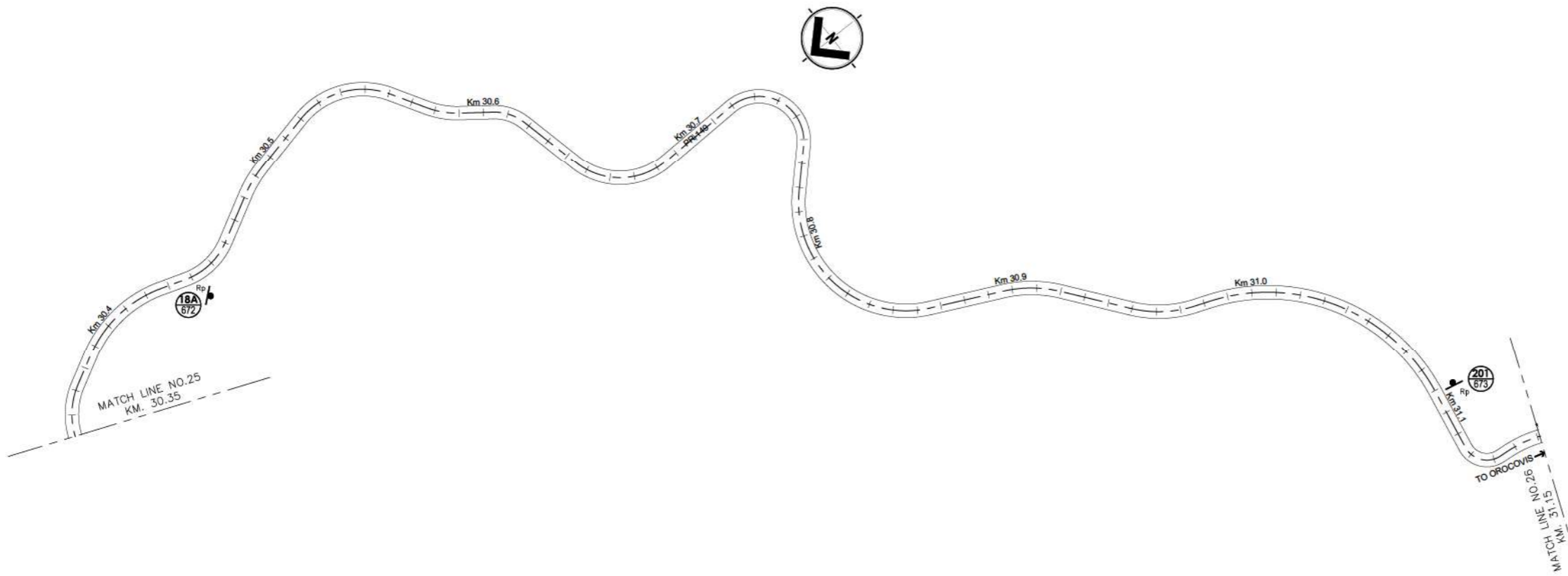
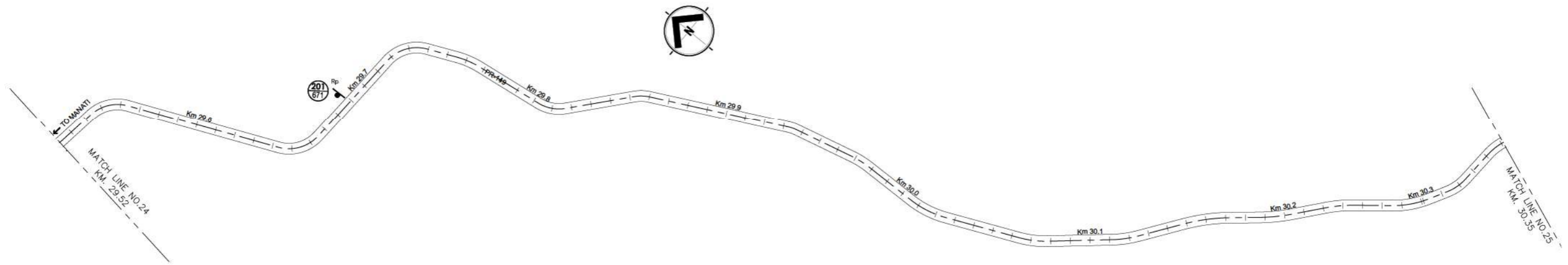


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
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DATE	REVISIONS

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ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	224	285



TRAFFIC SIGN LEGEND:

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DESIGN	##	##
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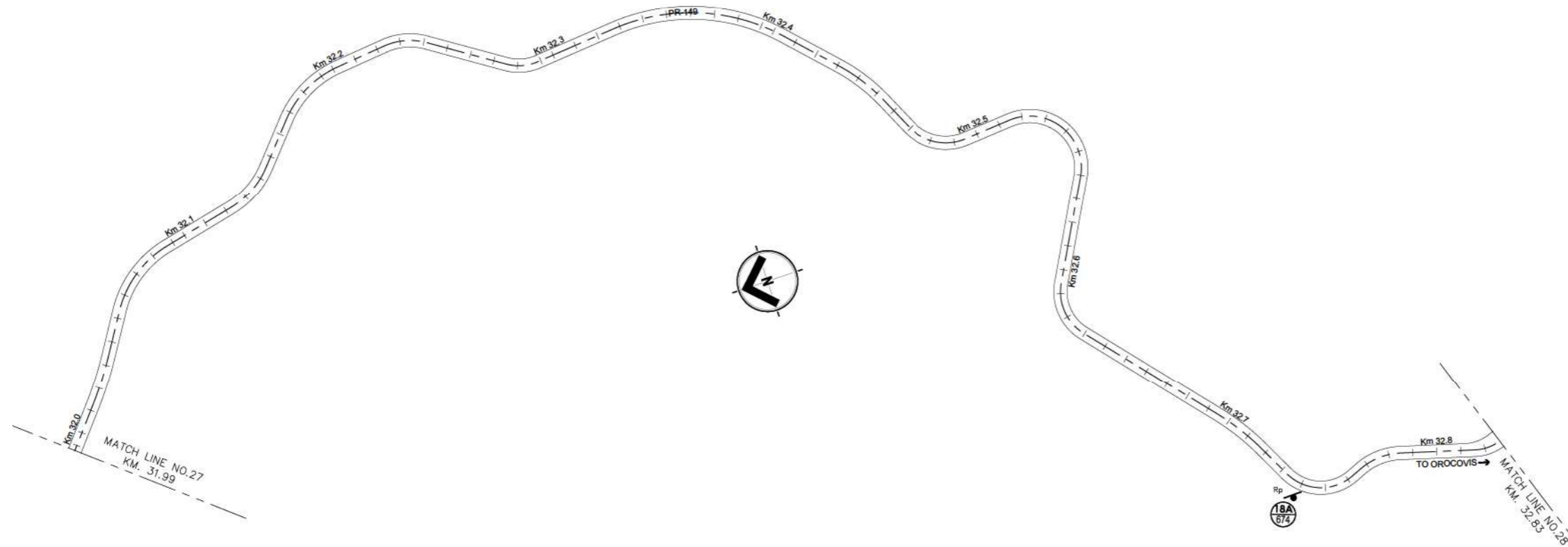


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
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DATE	REVISIONS

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ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	225	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
 - EXISTING SIGNS SHALL BE REMOVED (SP-913) AND INSTALL A NEW SIGN ON SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED.
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS.
 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

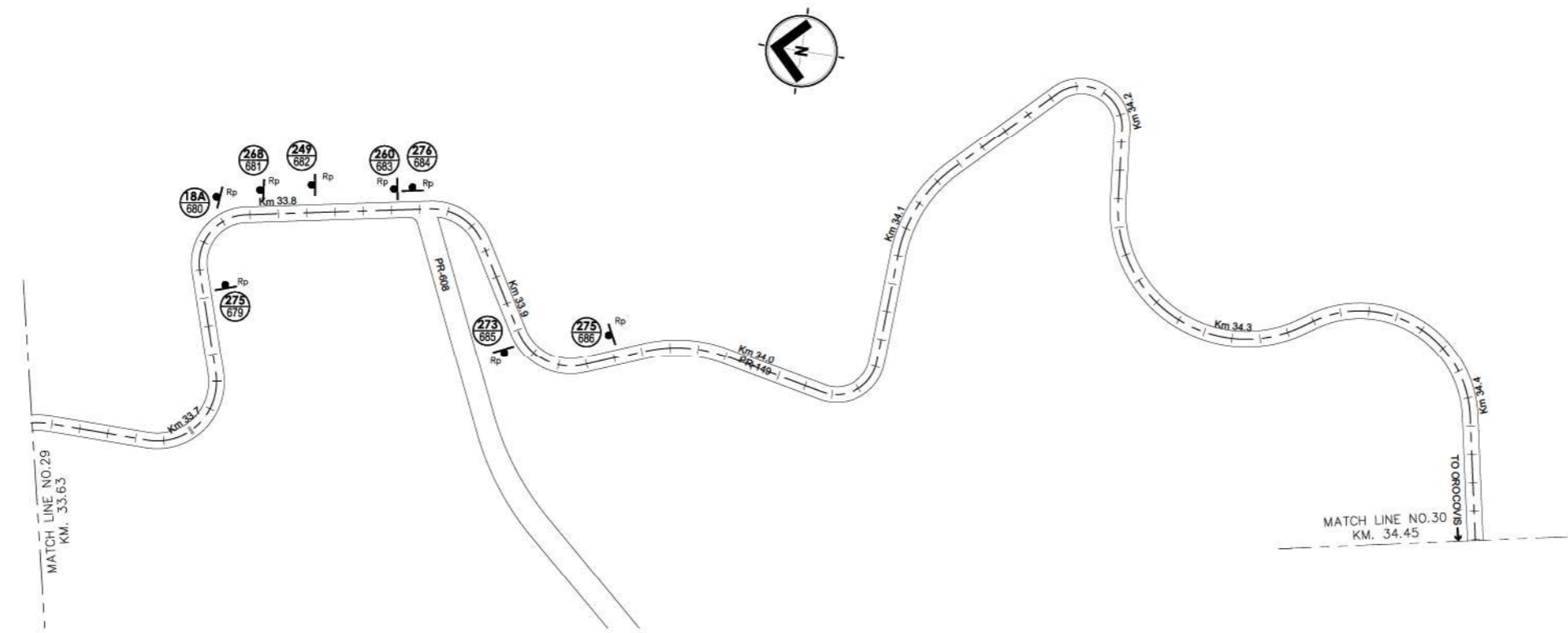
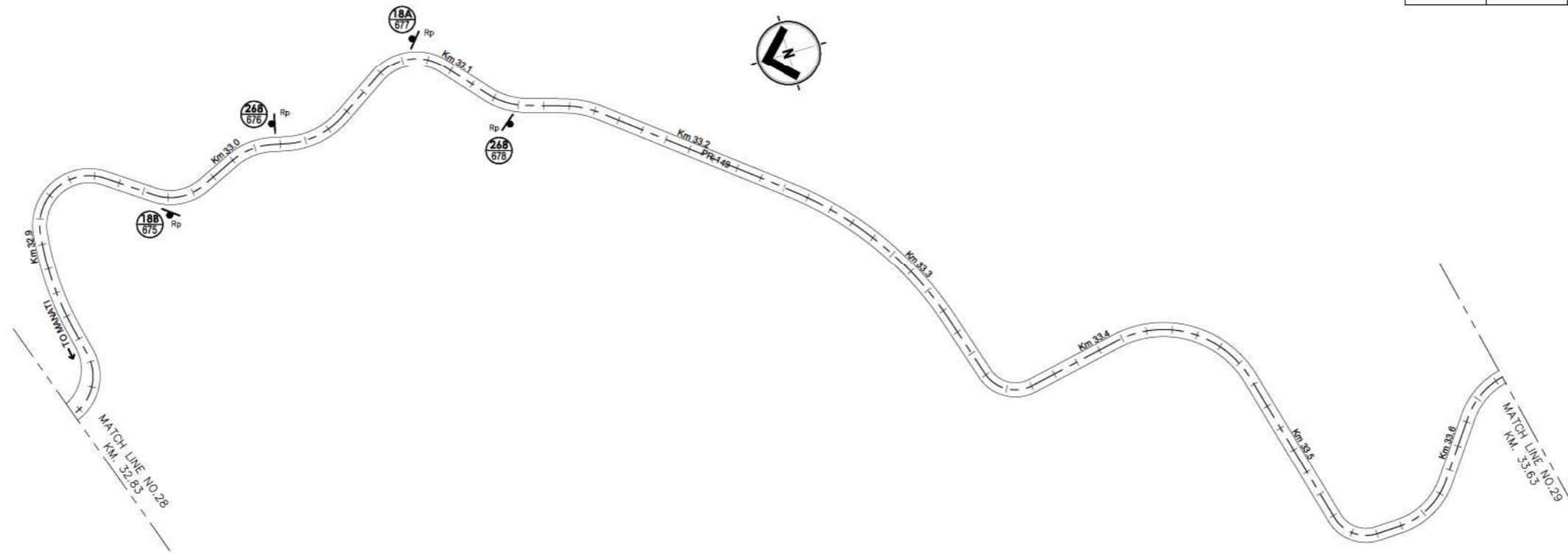
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 WORK BY DATE
 DESIGN # # # # #
 DRAWING # # # # #
 TRACED # # # # #
 CHECK # # # # #
 FINAL CHECK # # # # #



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
 HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	226	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG
 WORK BY DATE
 DESIGN # # # # #
 DRAWING # # # # #
 TRACED # # # # #
 CHECK # # # # #
 FINAL CHECK # # # # #



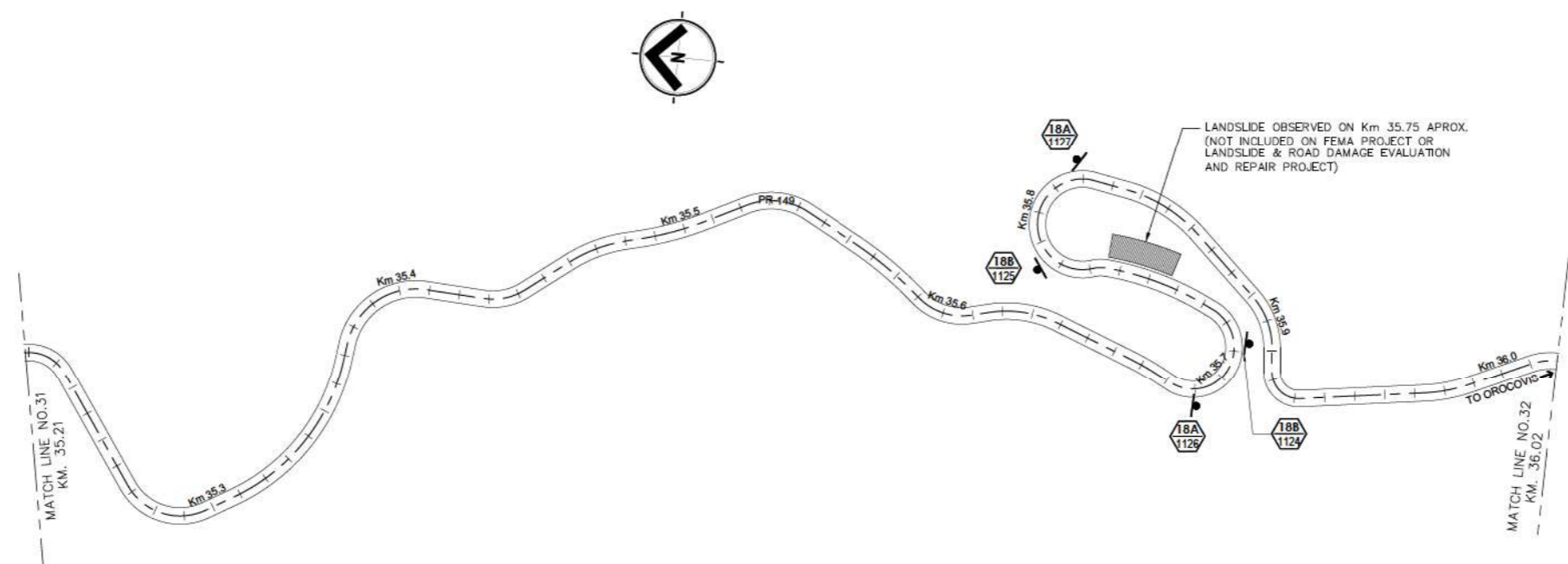
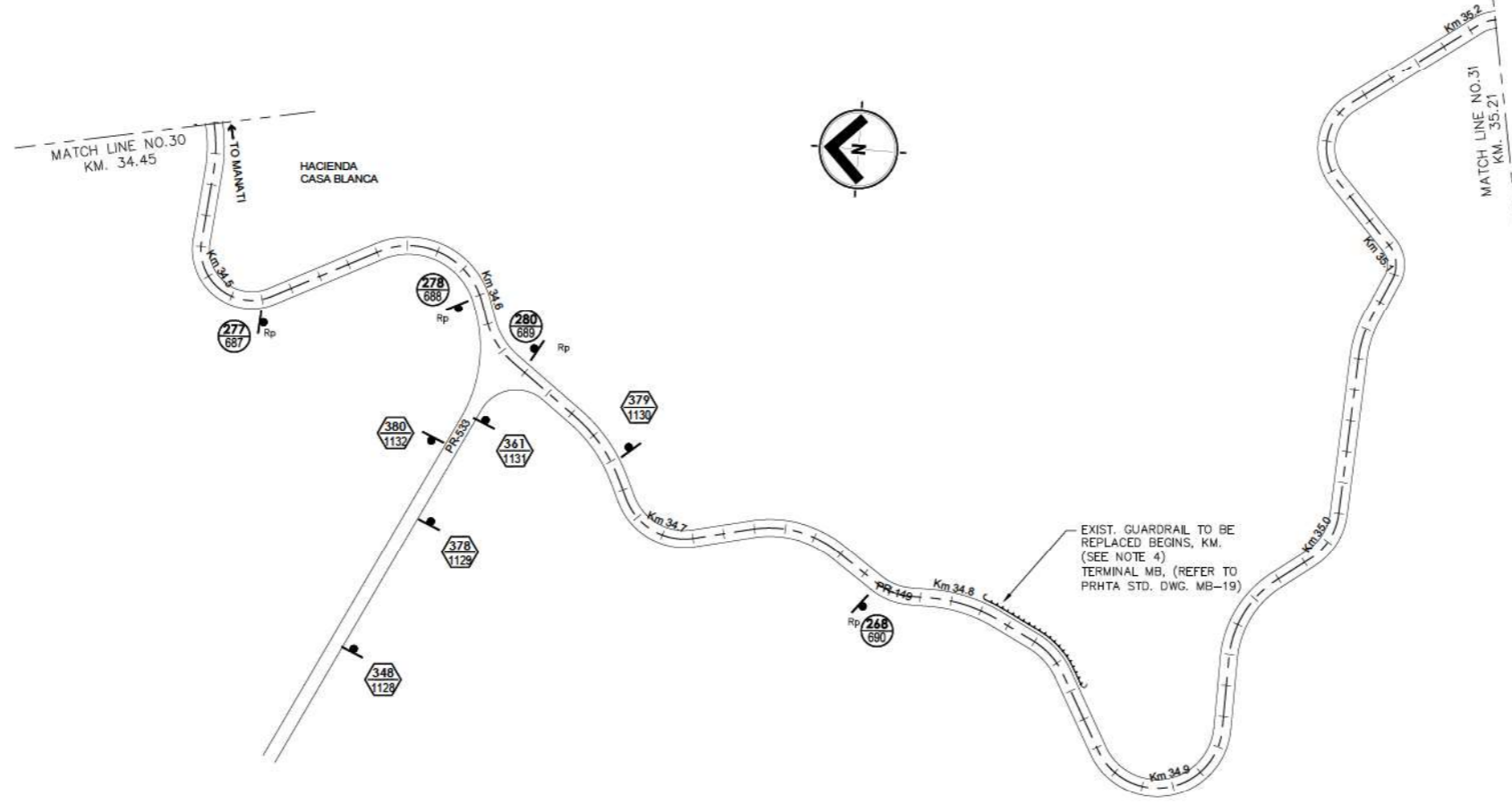
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	227	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)
	EXISTING SIGN TO BE REMOVED (SEE NOTE 1)		EXISTING SIGN TO REMAIN
	EXISTING RIGHT OF WAY (SEE NOTE 1)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXIST. GUARDRAIL TO REMAIN		EXIST. GUARDRAIL TO BE REMOVED (SEE NOTE 4)

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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 WORK BY DATE
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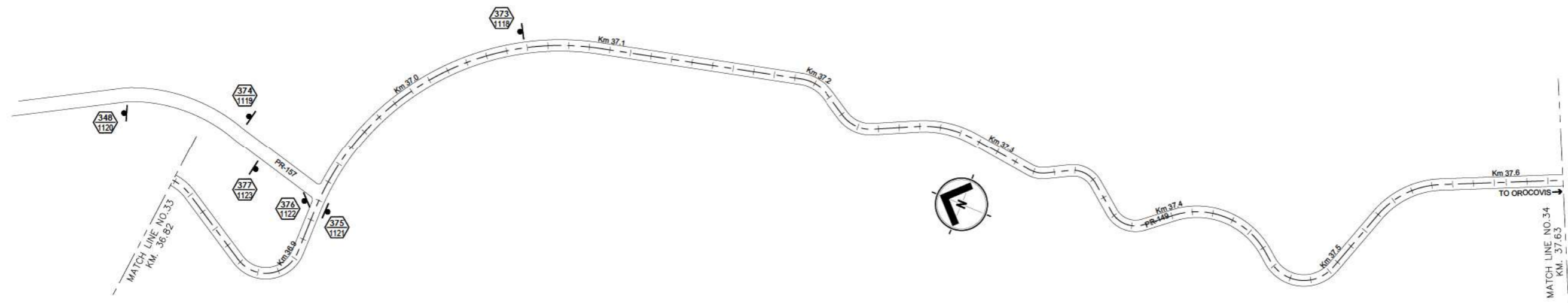
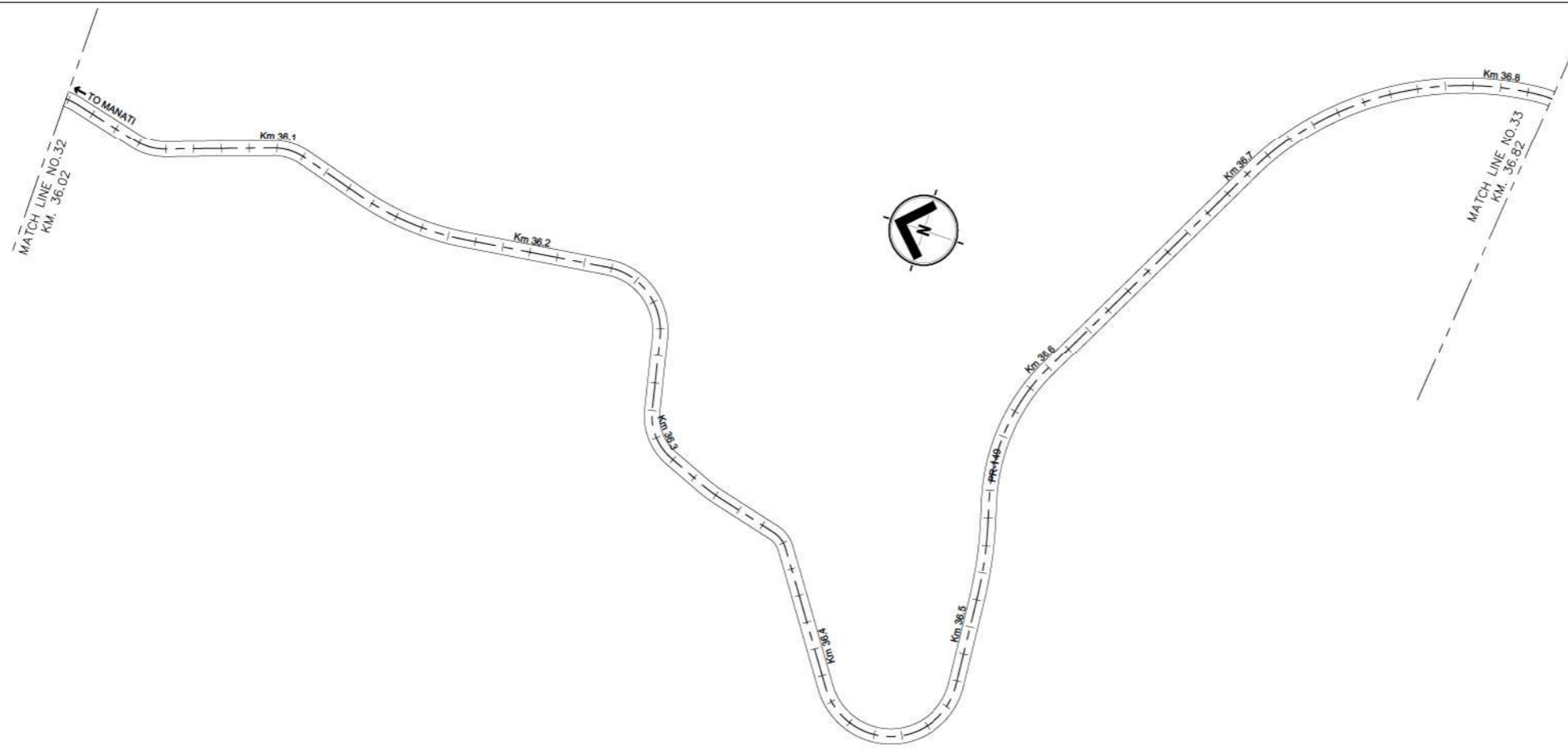
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/ORCOVIS/VILLALBA/JUANA DIAZ	PR	2018	228	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
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WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG



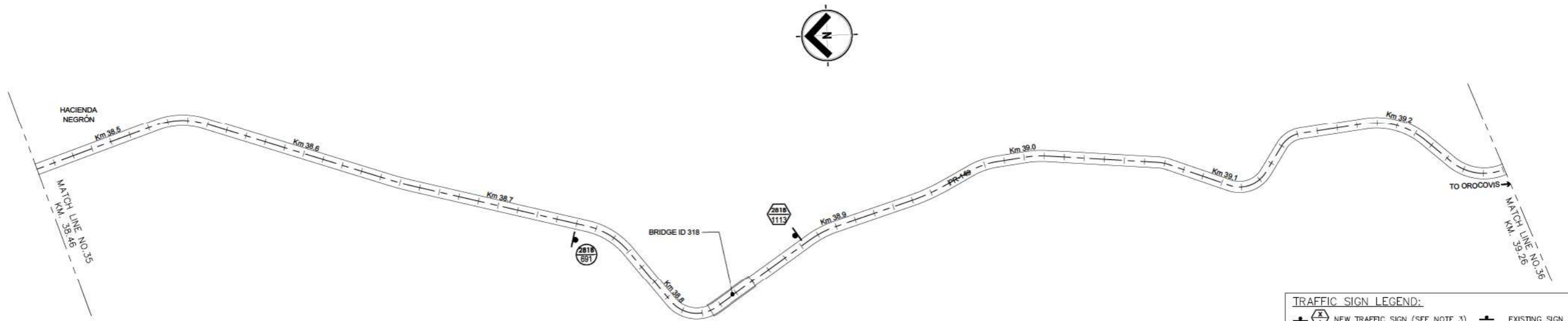
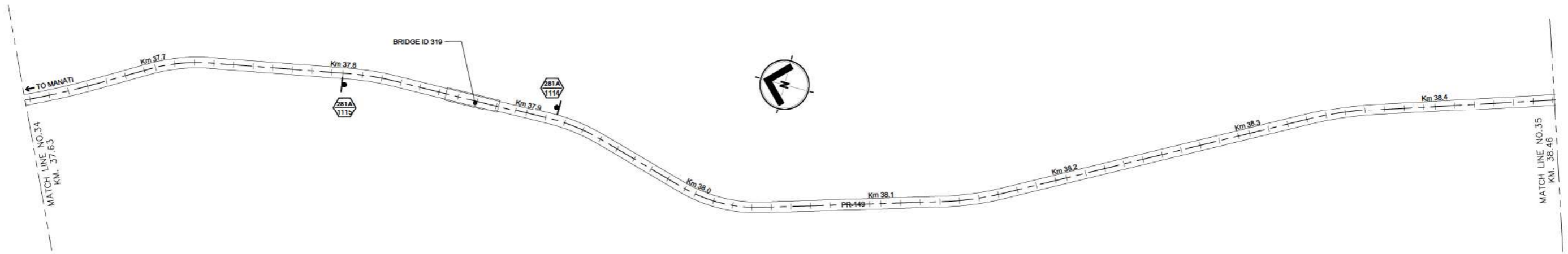
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/ORCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	229	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS. MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	DATE
DESIGN	##/##/##
DRAWING	##/##/##
TRACED	##/##/##
CHECK	##/##/##
FINAL CHECK	##/##/##

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG

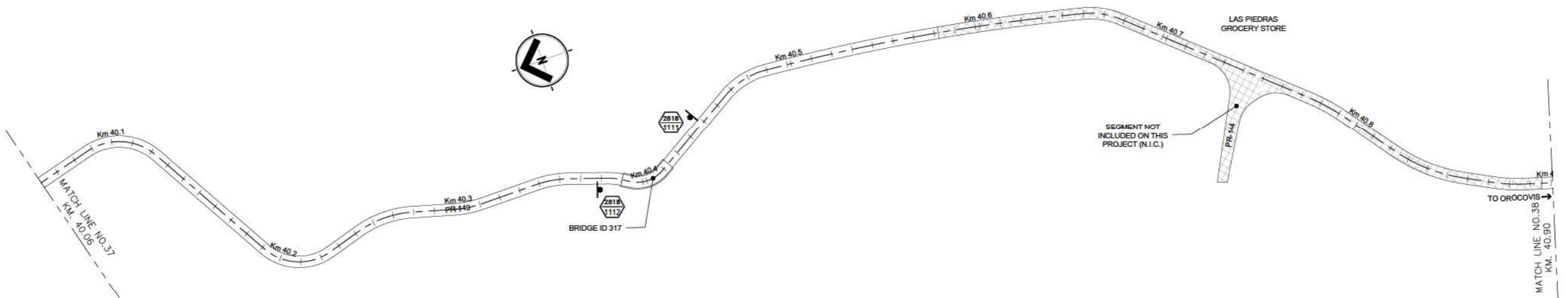
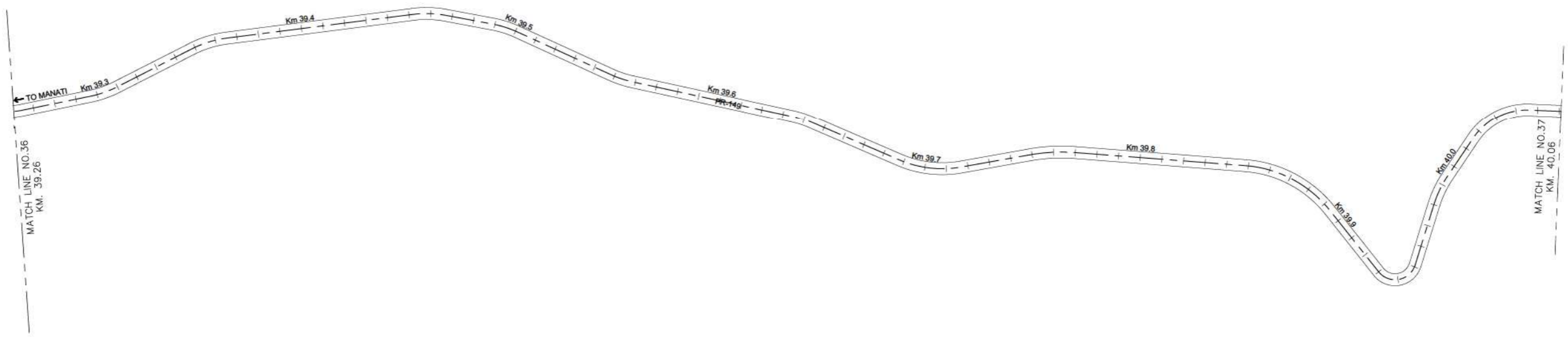


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

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ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	230	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS, MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG



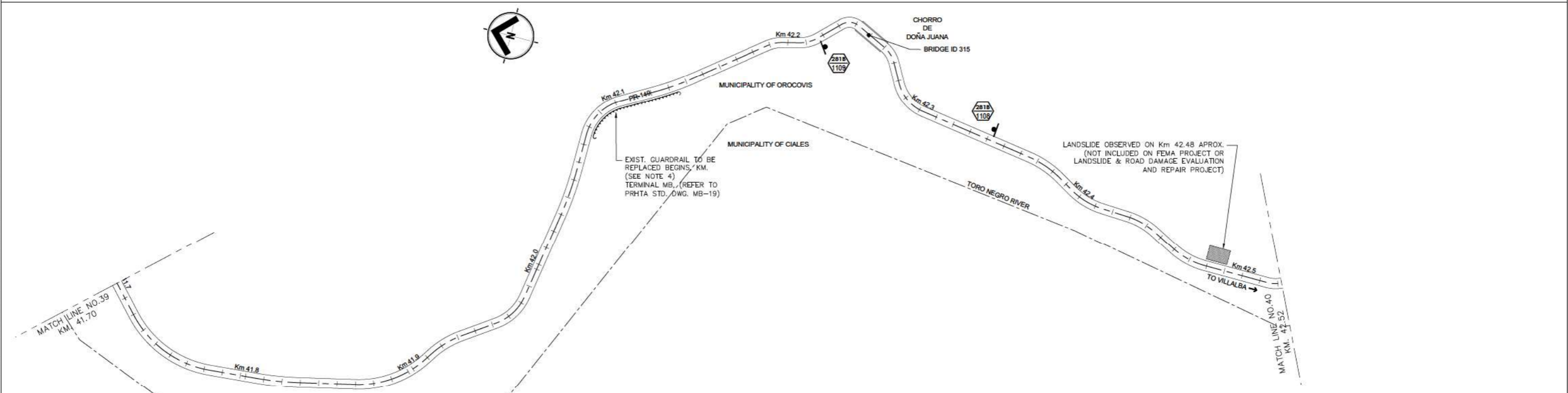
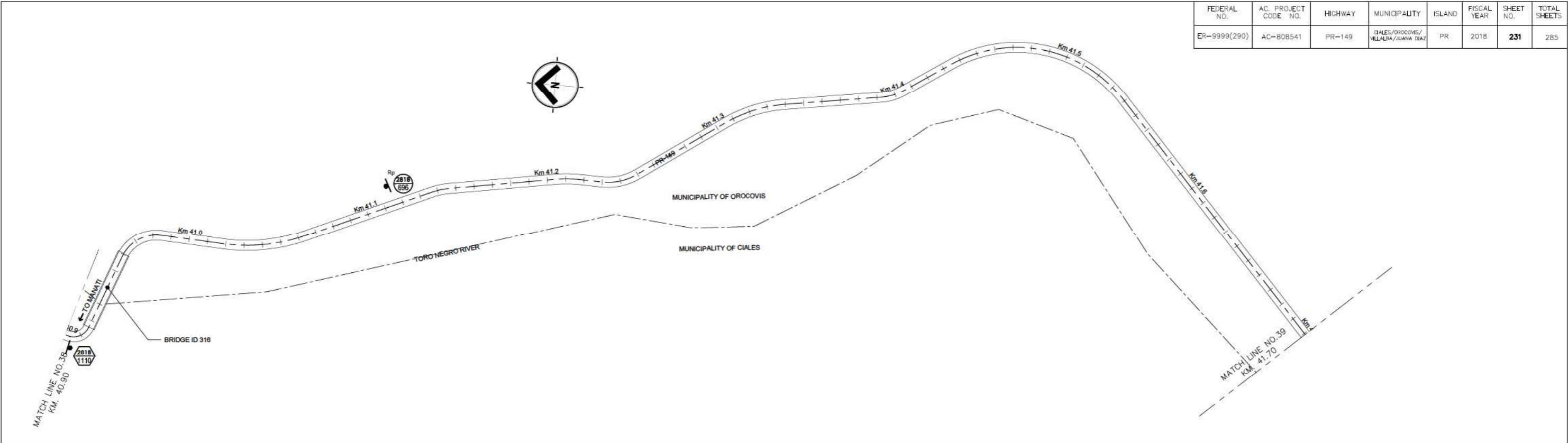
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	231	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

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FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG
 WORK BY DATE
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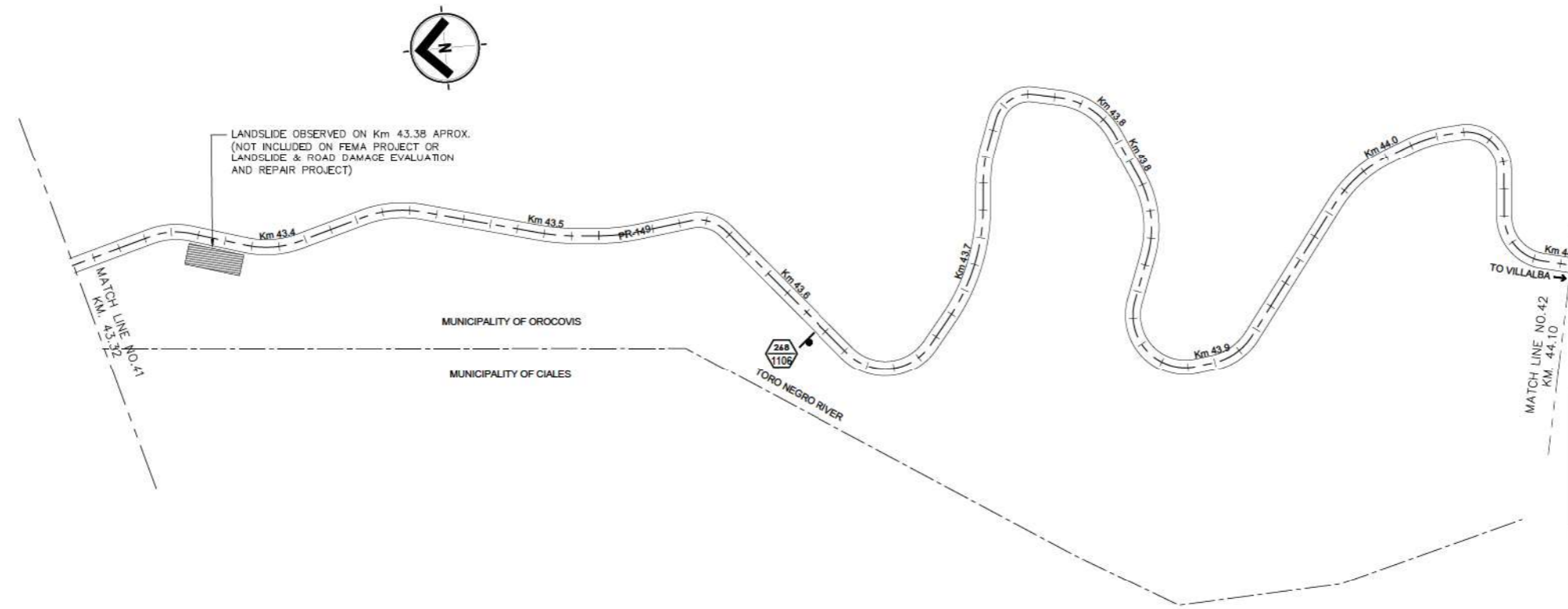
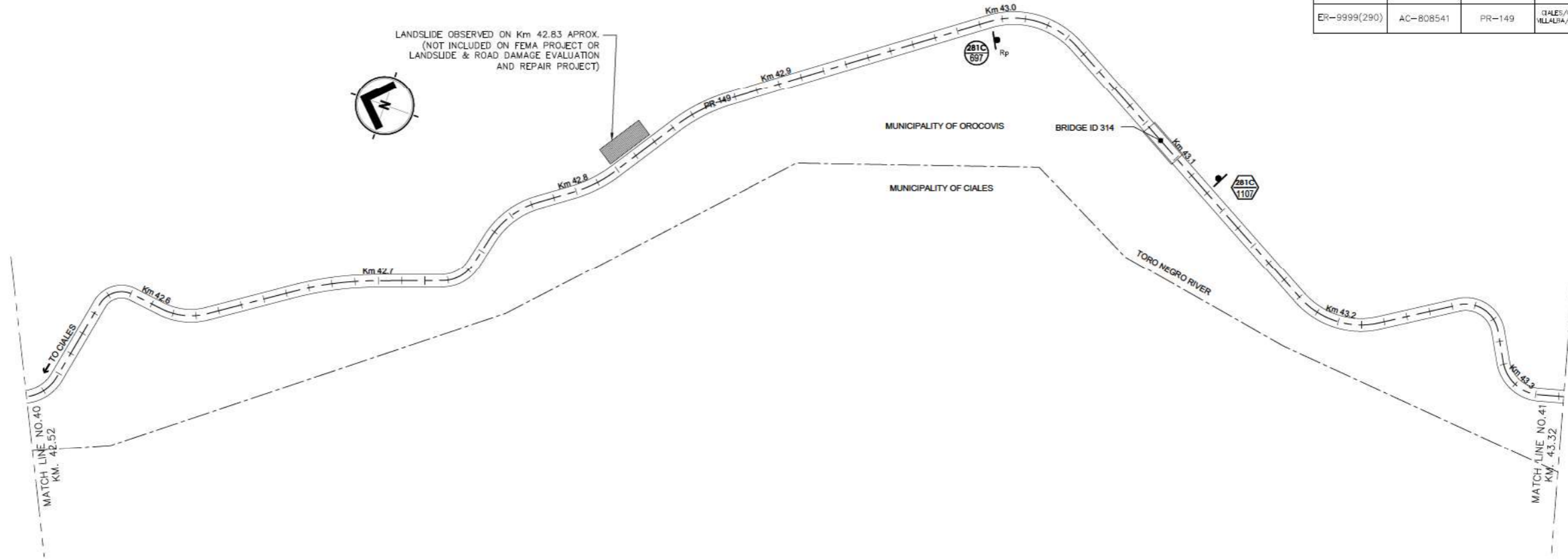
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	232	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG
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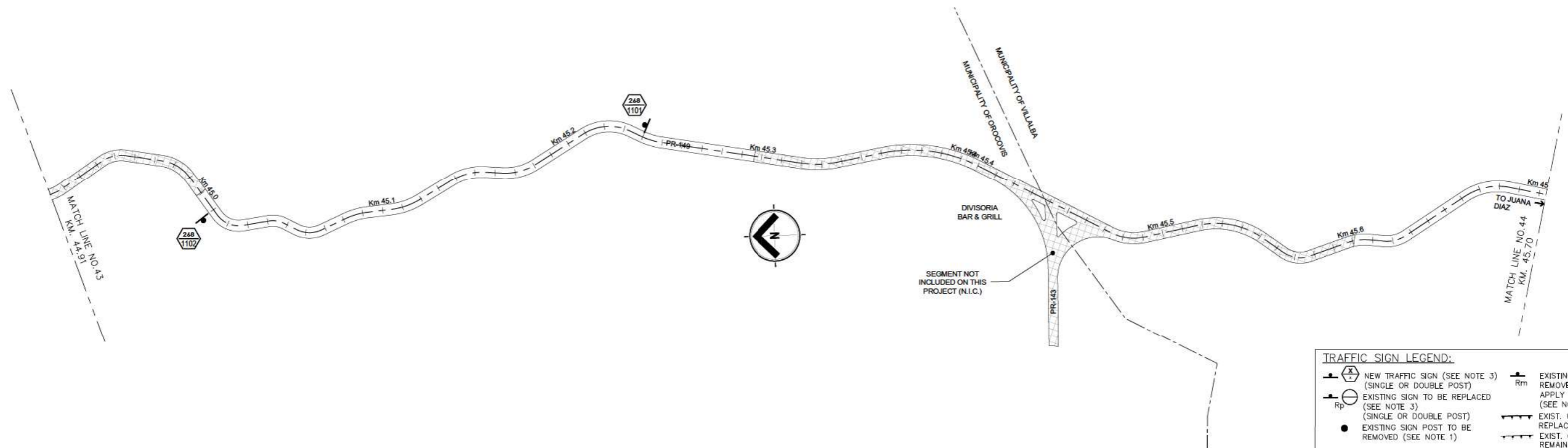
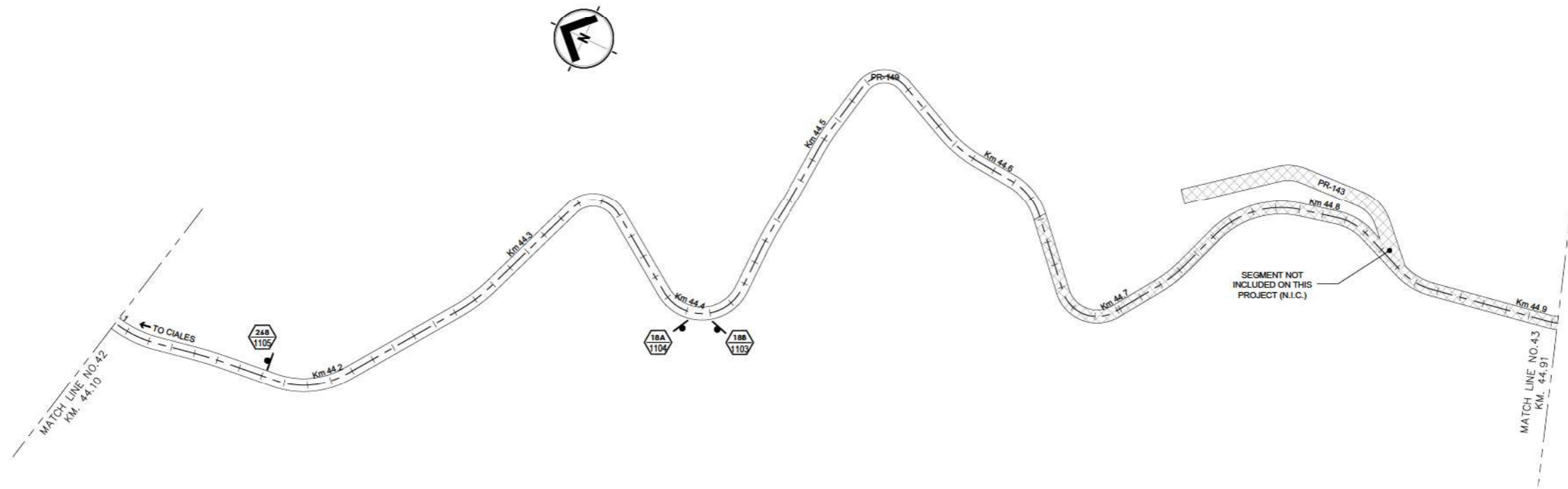
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
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DATE	REVISIONS

TRAFFIC SIGNING PLAN

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ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	233	285



TRAFFIC SIGN LEGEND:

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

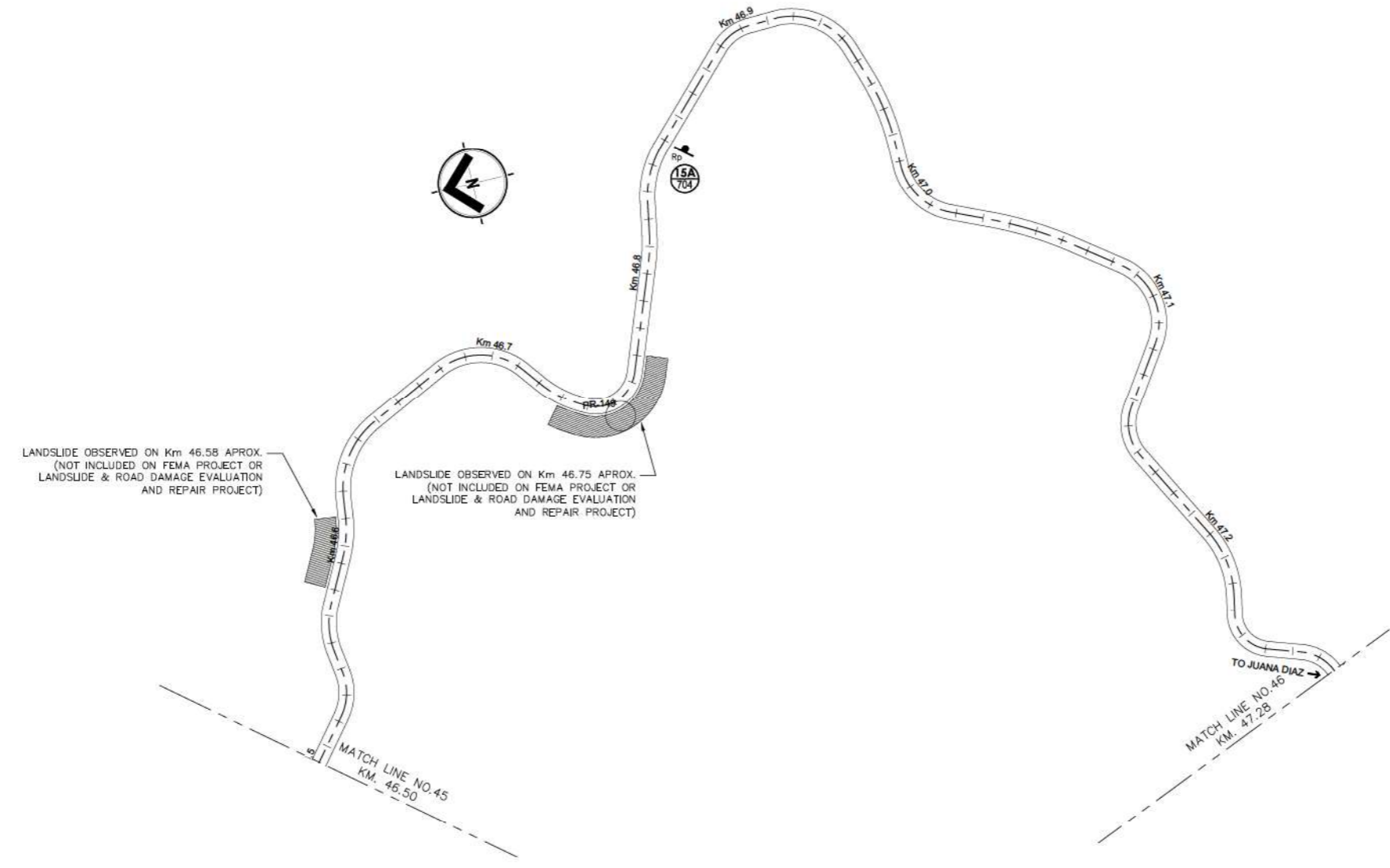
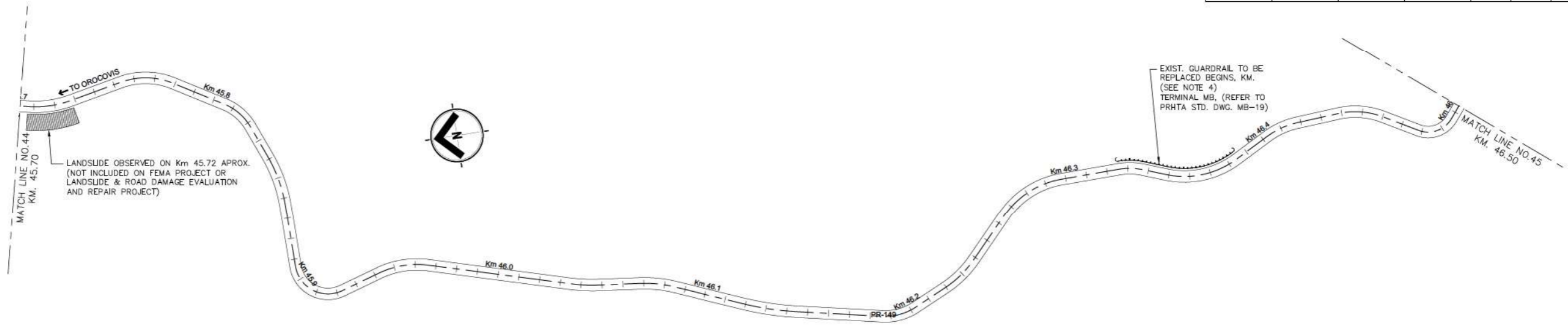
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

NOT TO SCALE

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CALES/ORCOVIS/VILLALBA/JUANA DIAZ	PR	2018	234	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
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WORK	BY	DATE
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FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG

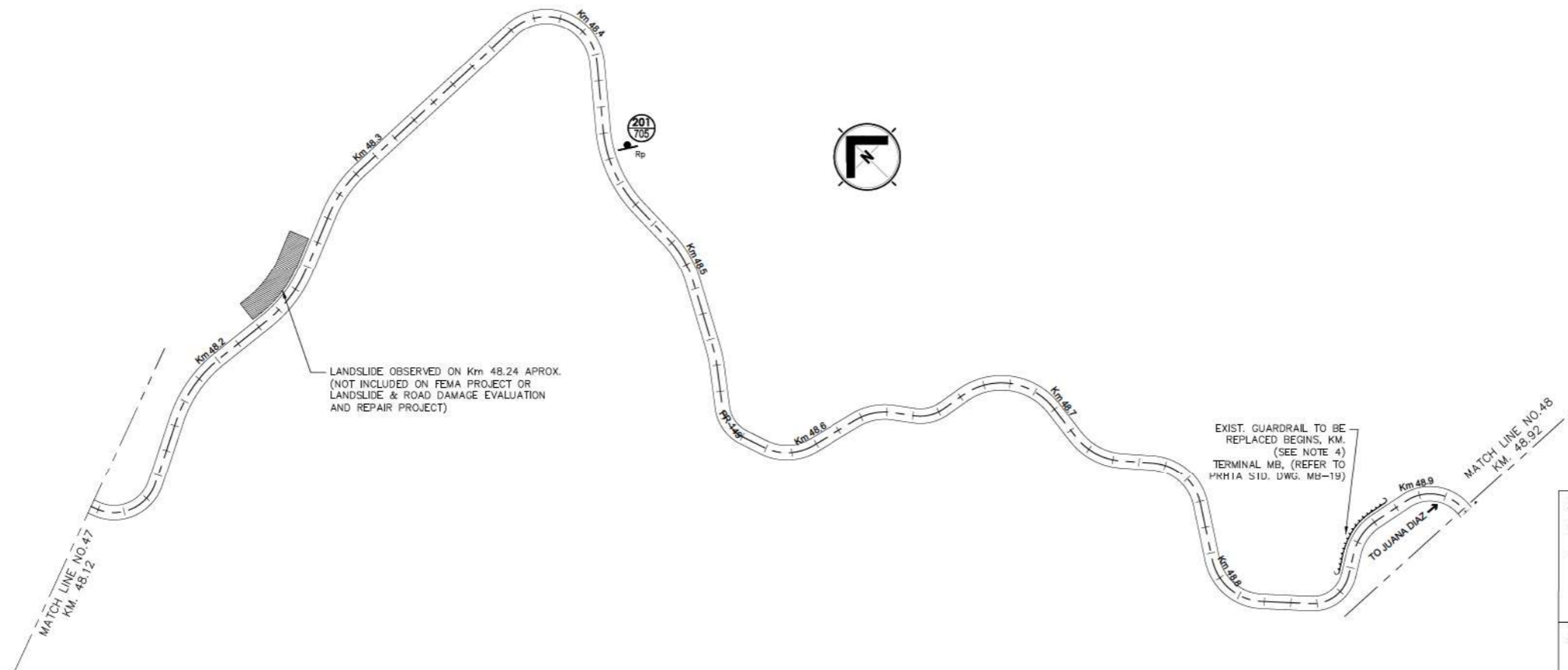
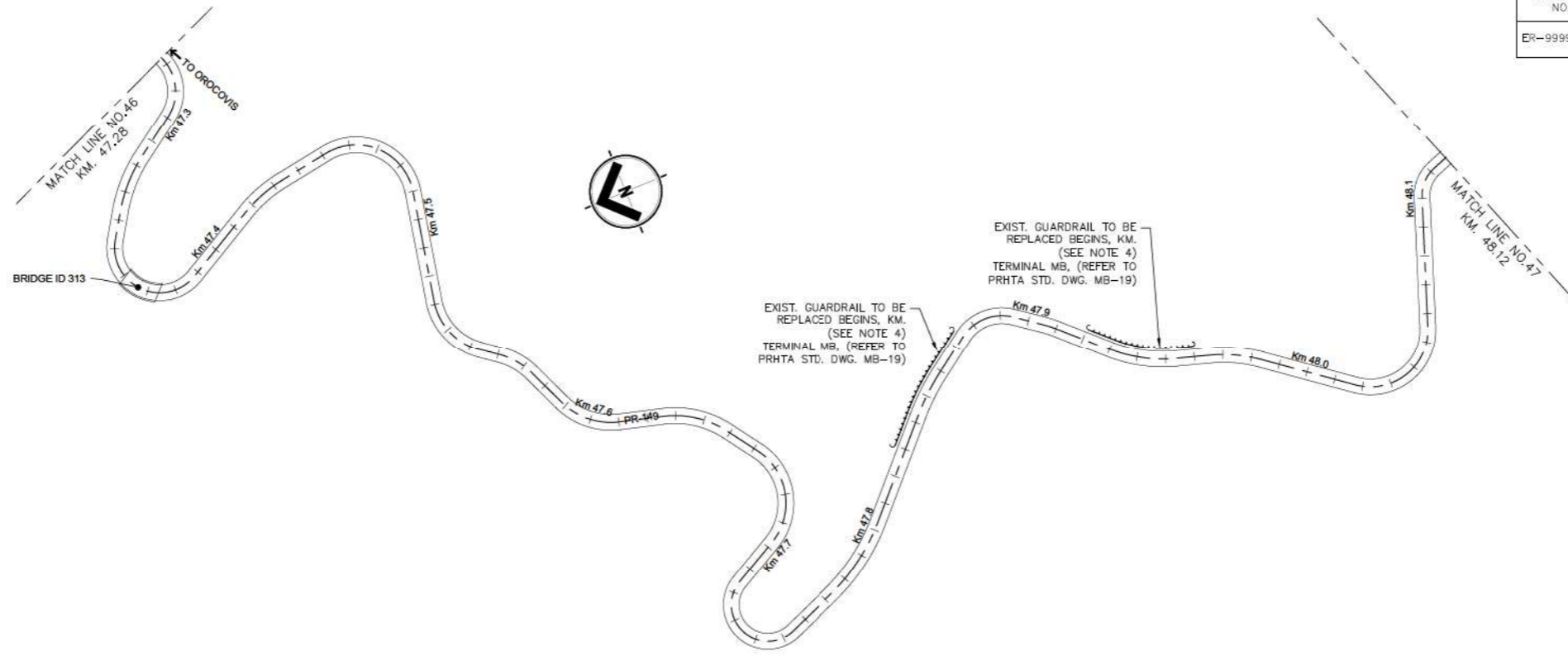


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
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DATE	REVISIONS

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ER-9999(290)	AC-808541	PR-149	CIALES/ORCOVIS/VILLALBA/JUANA DIAZ	PR	2018	235	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
	EXISTING SIGN POST TO BE REMOVED (SEE NOTE 1)		EXIST. GUARDRAIL TO REMAIN

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913-REMOVAL AND/OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
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 - EXISTING GUARDRAIL SEGMENT TO BE REMOVED (SEE SP-913) AND REPLACED WITH NEW W-BEAM GUARDRAIL (REFER TO PRHTA STD. DWGS. MB-SERIES (2018) FOR DETAILS AND SUPPLEMENTAL SPEC.-606)

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0-PRHTA-HURRICANE SIGNING & GUARDRAILS\01-SITE\ROUND 2\PR-149\PR-149_TS-1-TS-DWG
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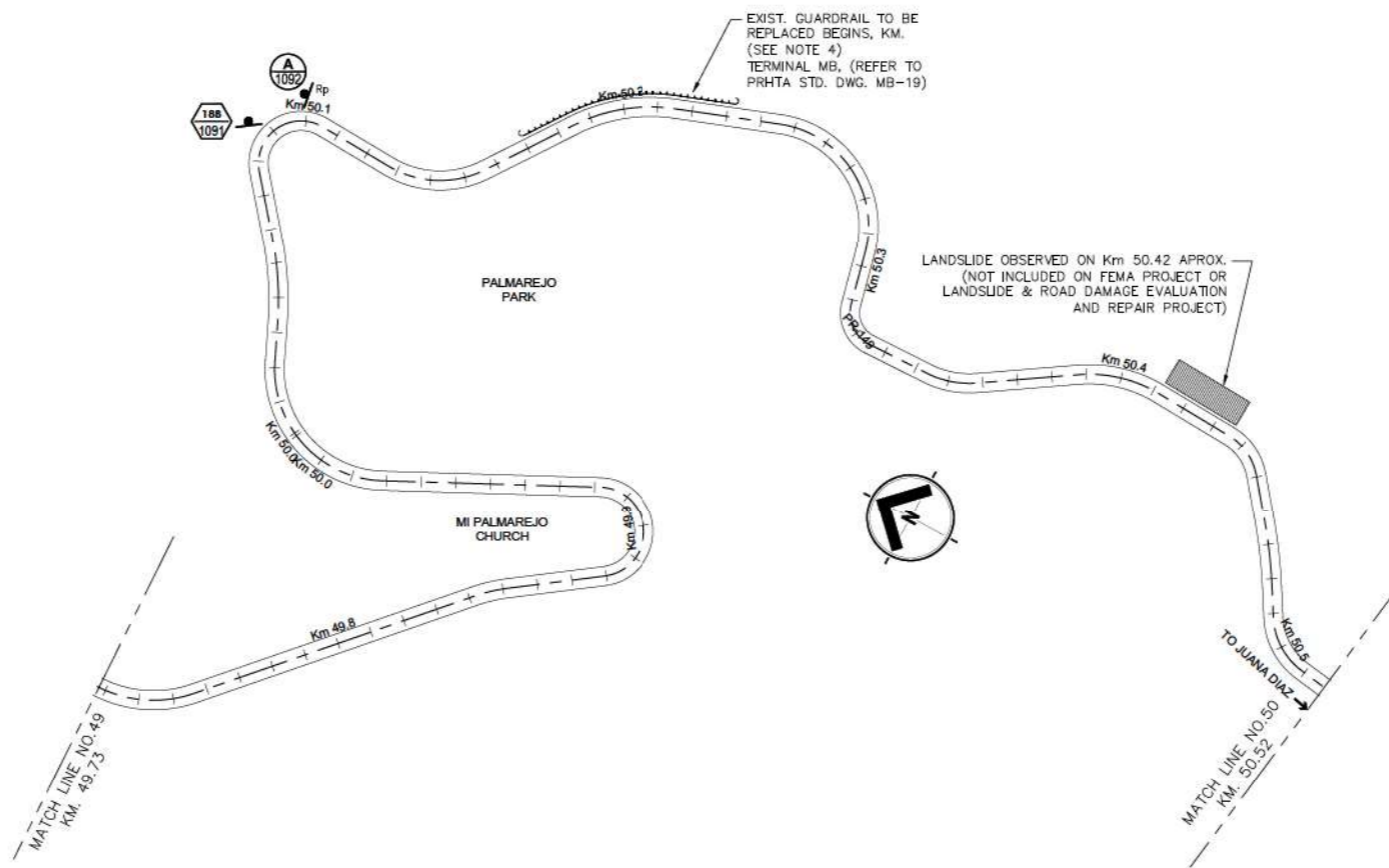
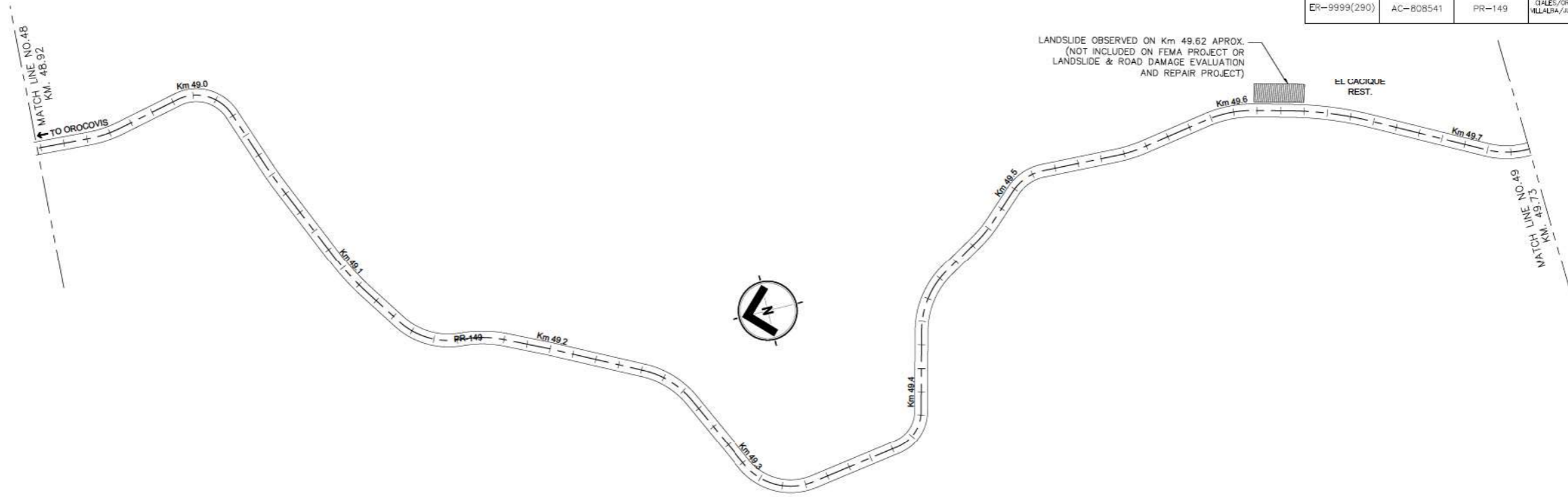
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 P.R. - 149 FROM KM 12.80 TO KM 72.30
 CIALES/ORCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	236	285



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WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

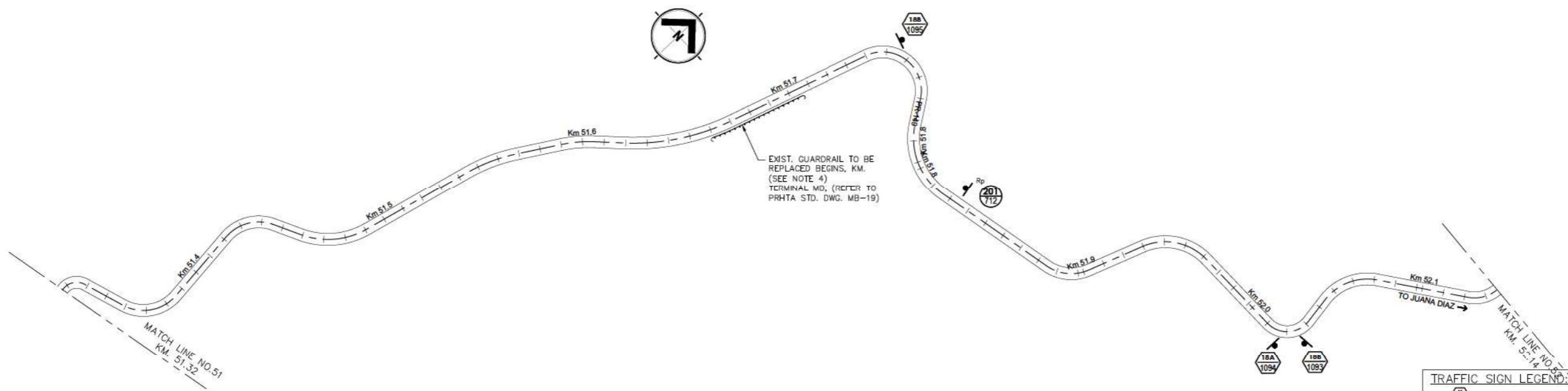
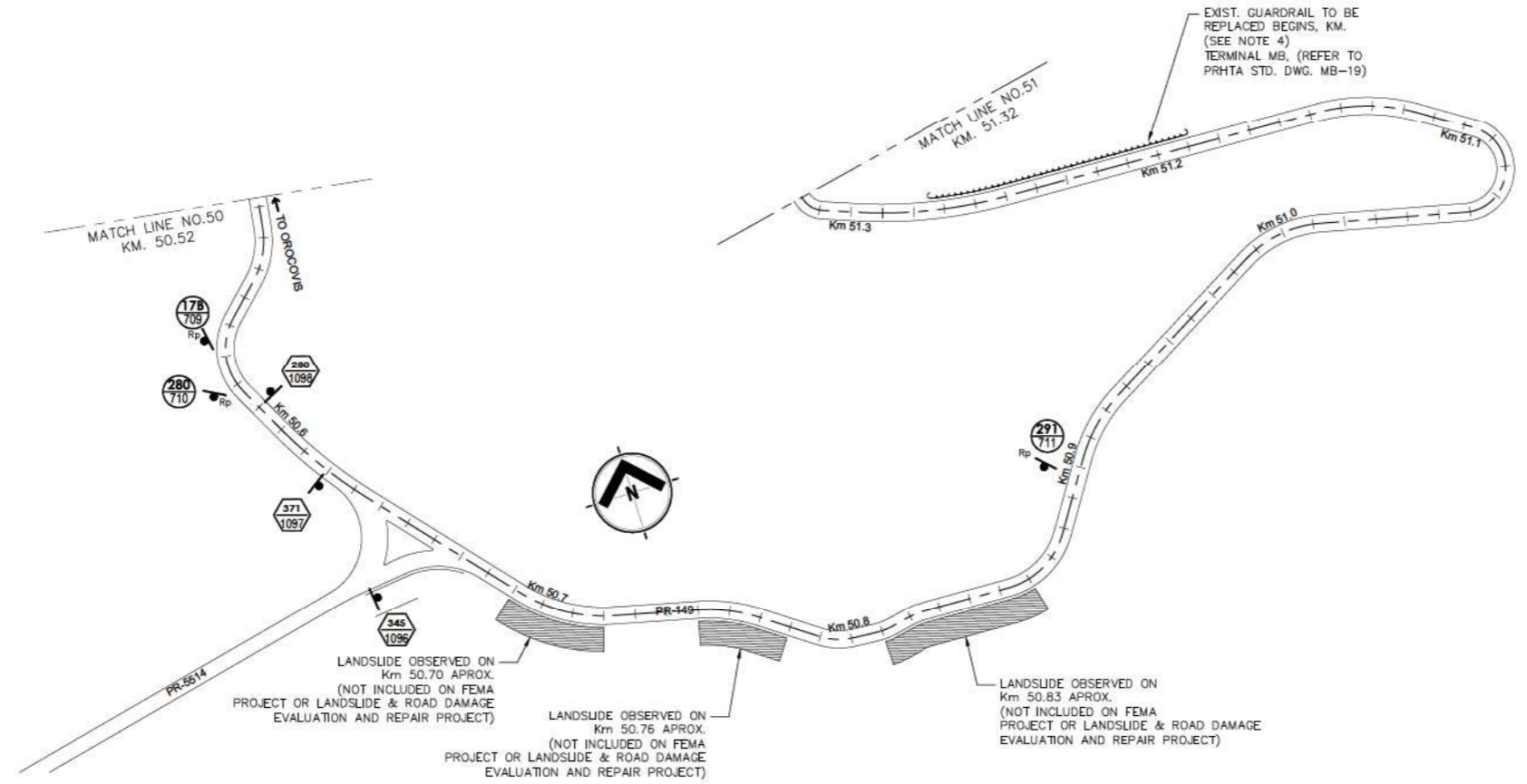
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1-TS-DWG

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/ORCOVIS/VILLALBA/JUANA DIAZ	PR	2018	237	285



TRAFFIC SIGN LEGEND:	
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	EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
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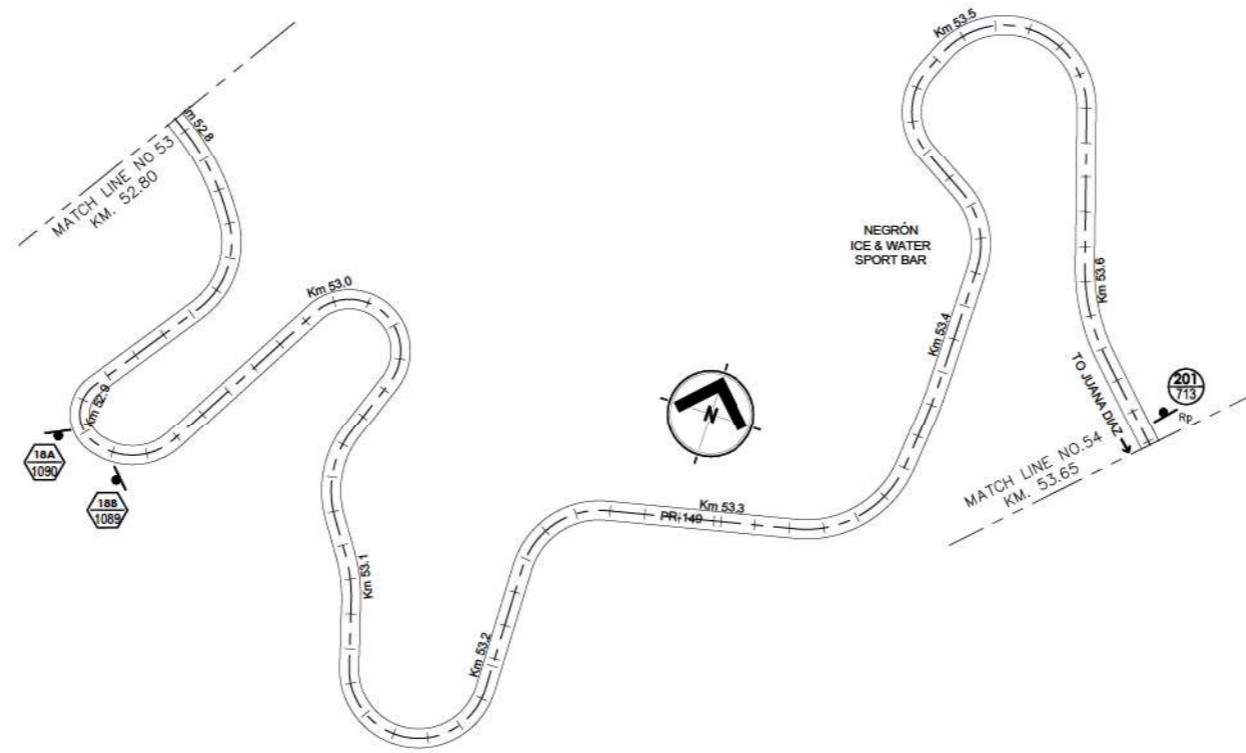
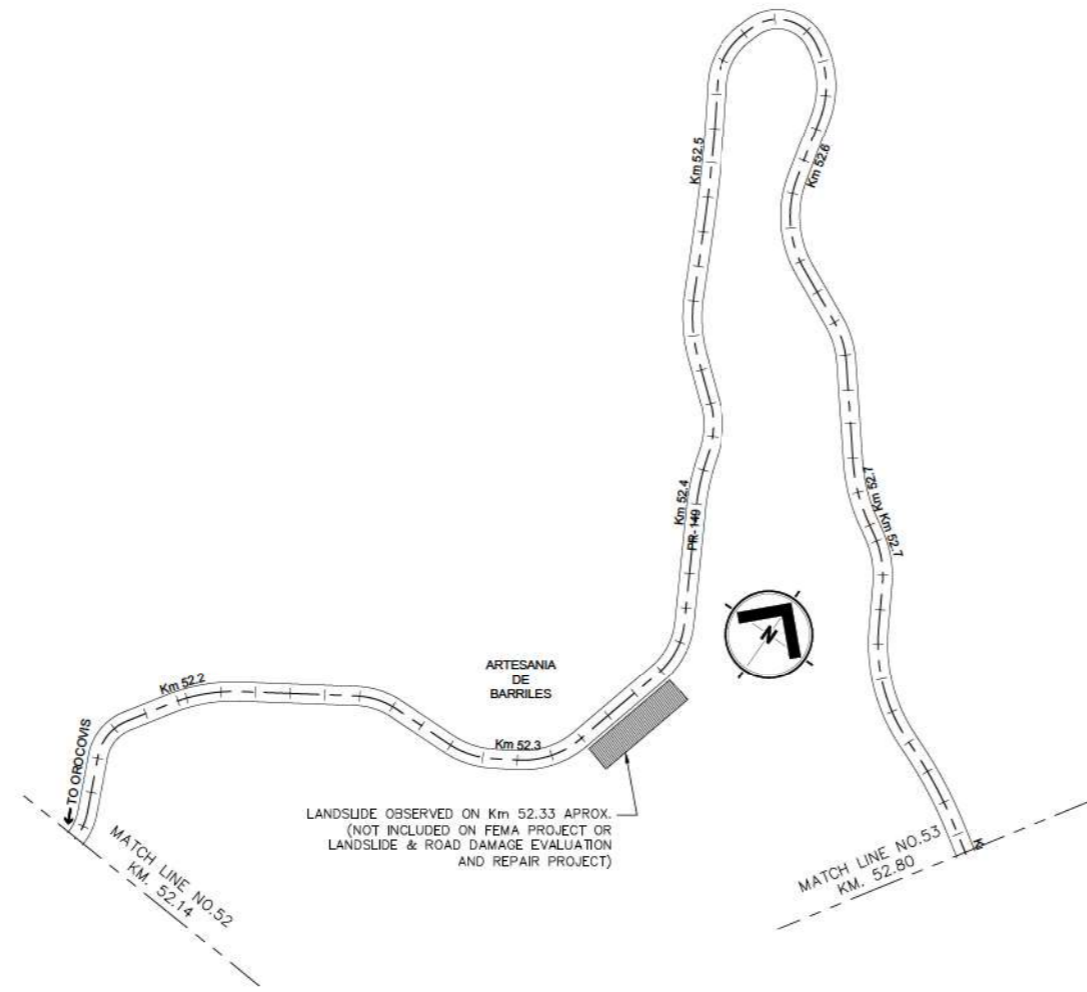
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
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TRAFFIC SIGNING PLAN

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ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	238	285



TRAFFIC SIGN LEGEND:

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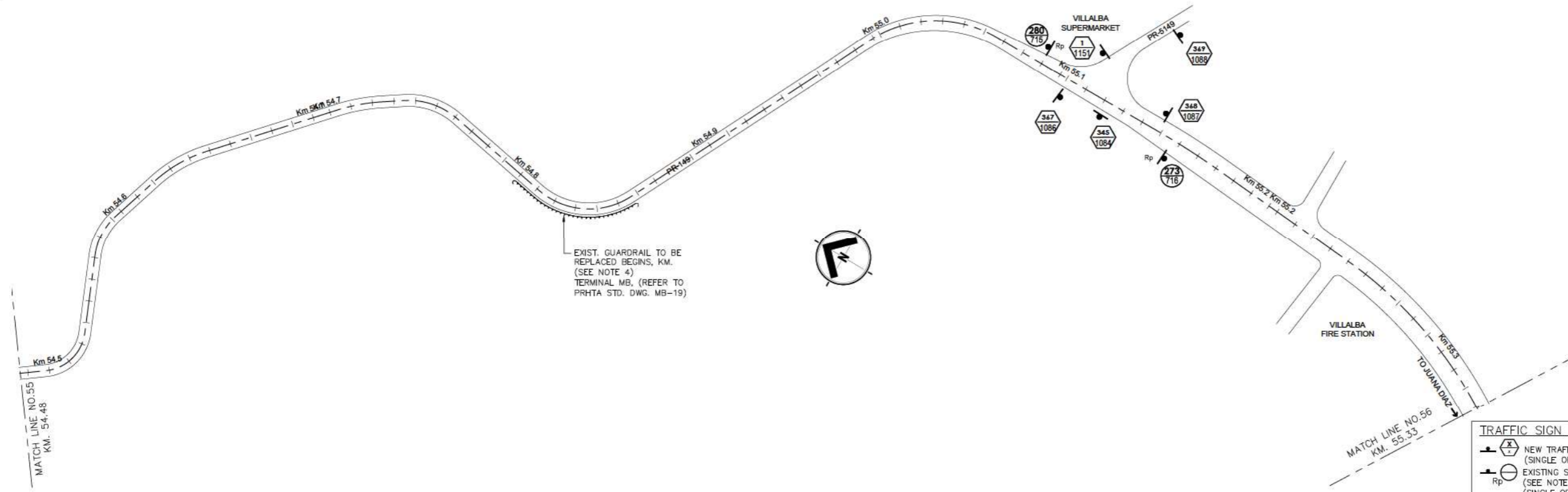
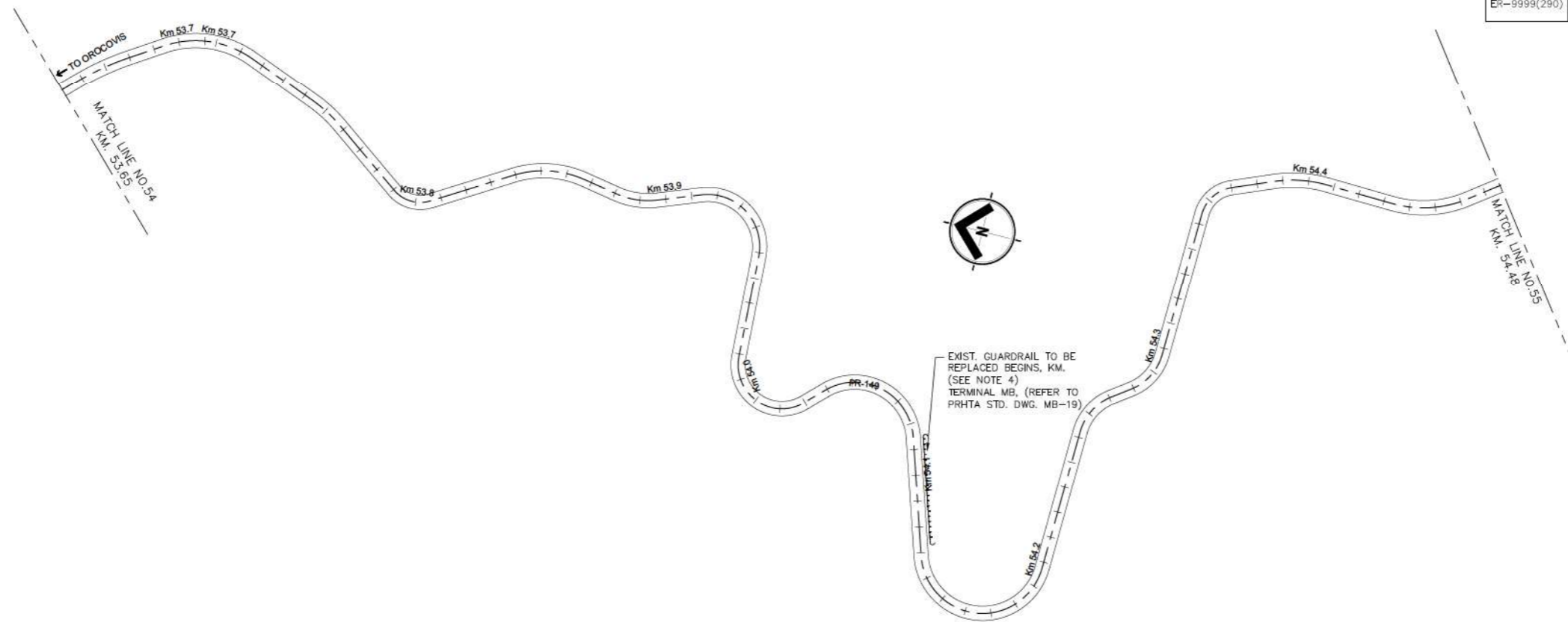
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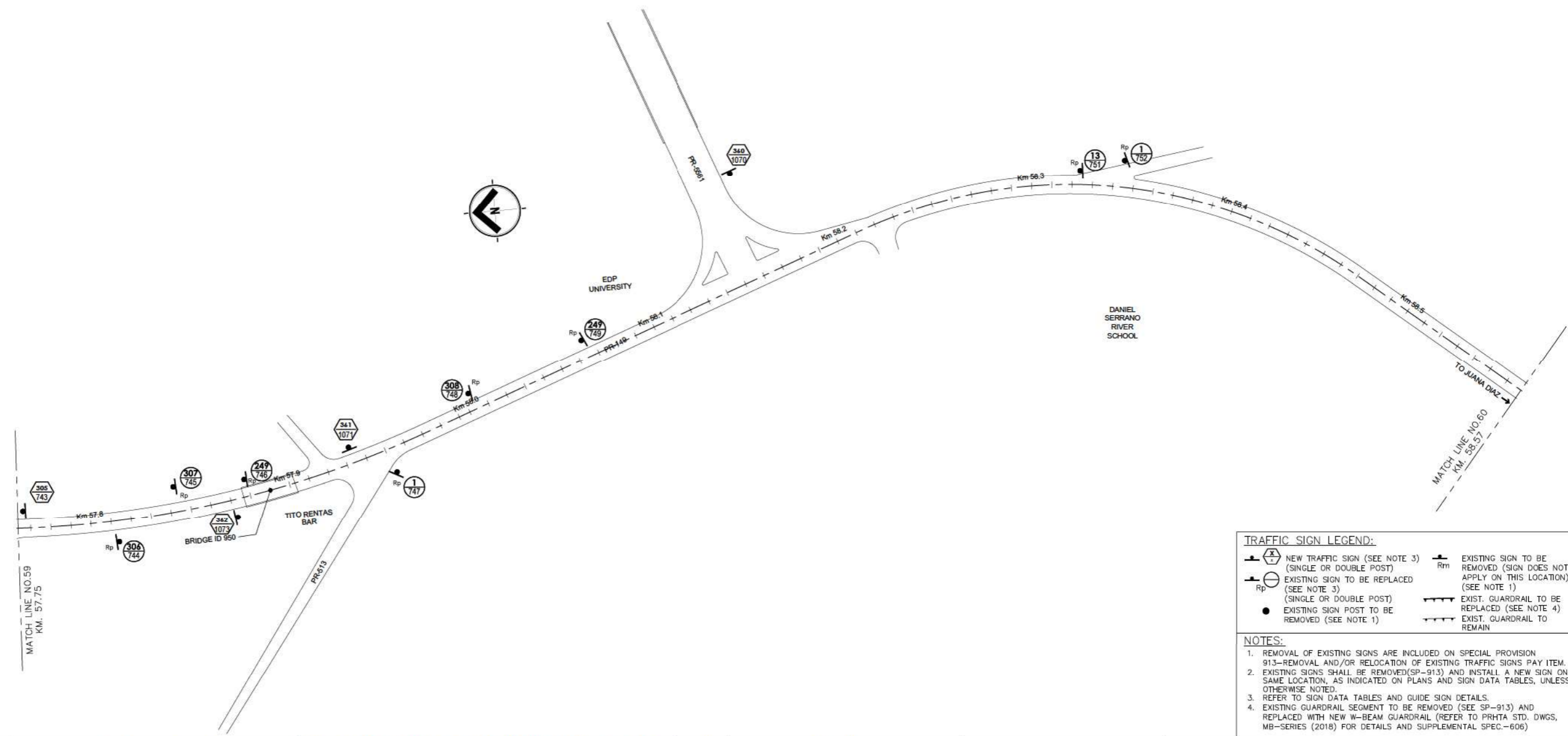
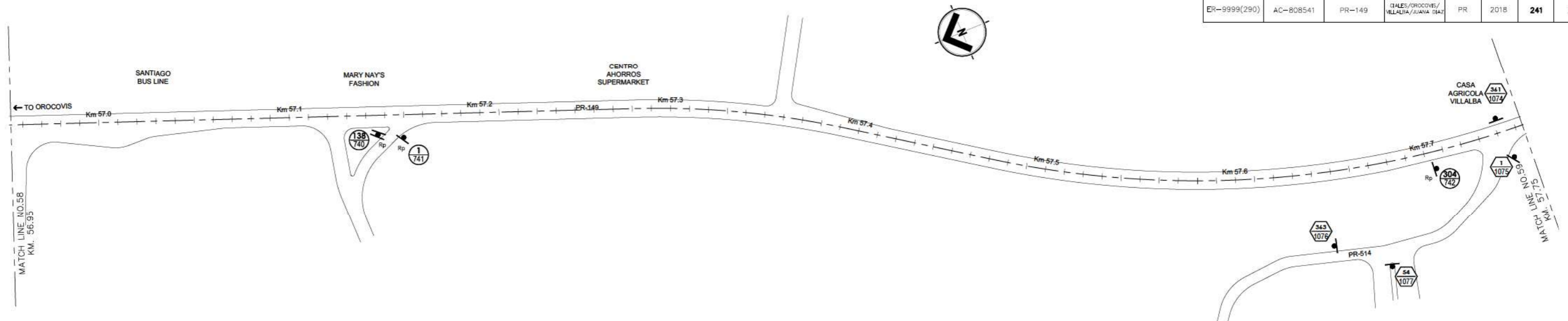


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
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TRACED	##	##
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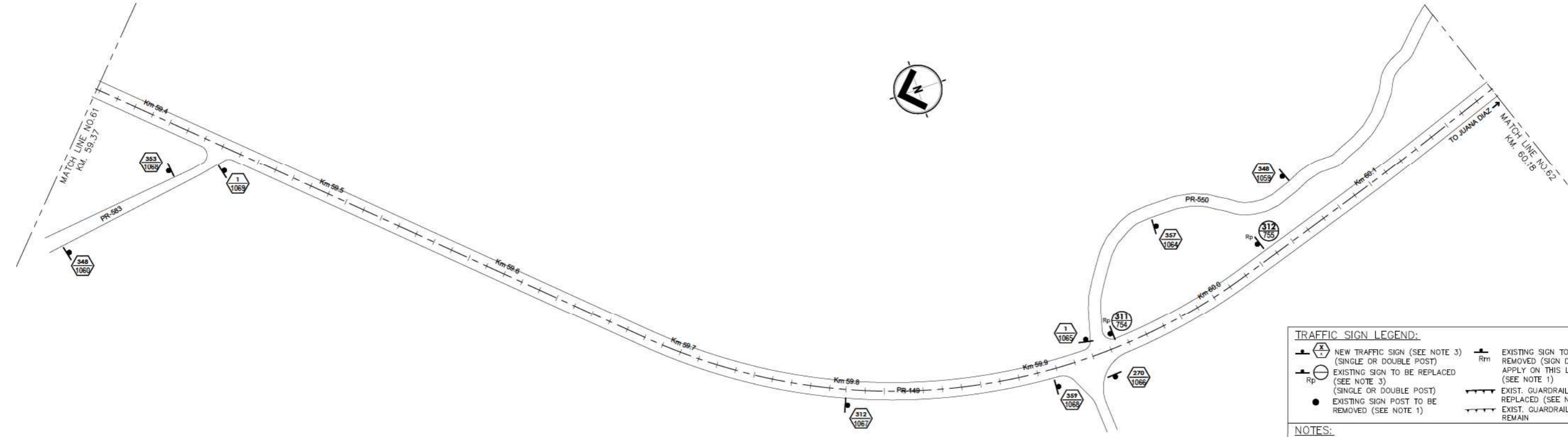
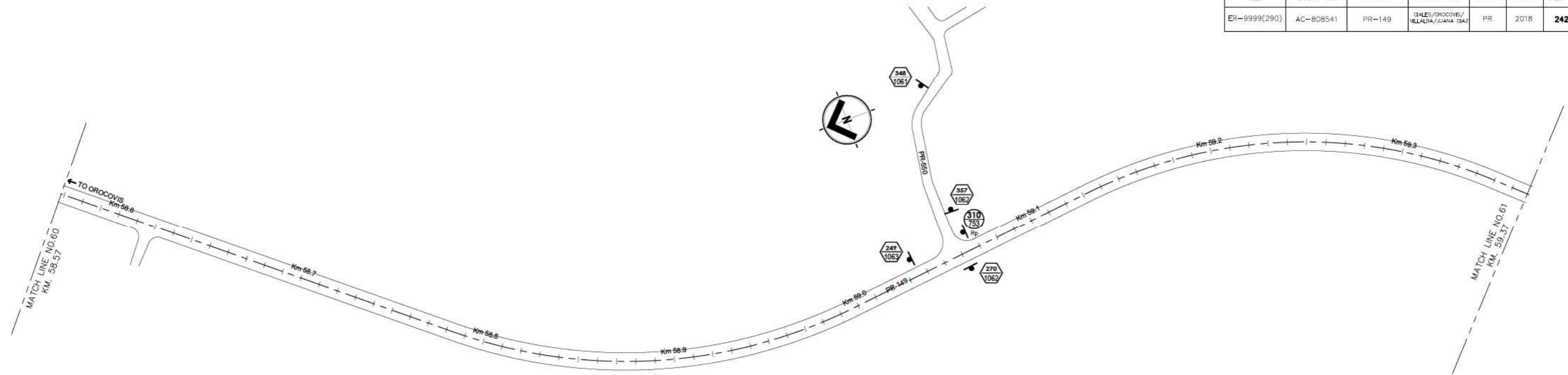
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
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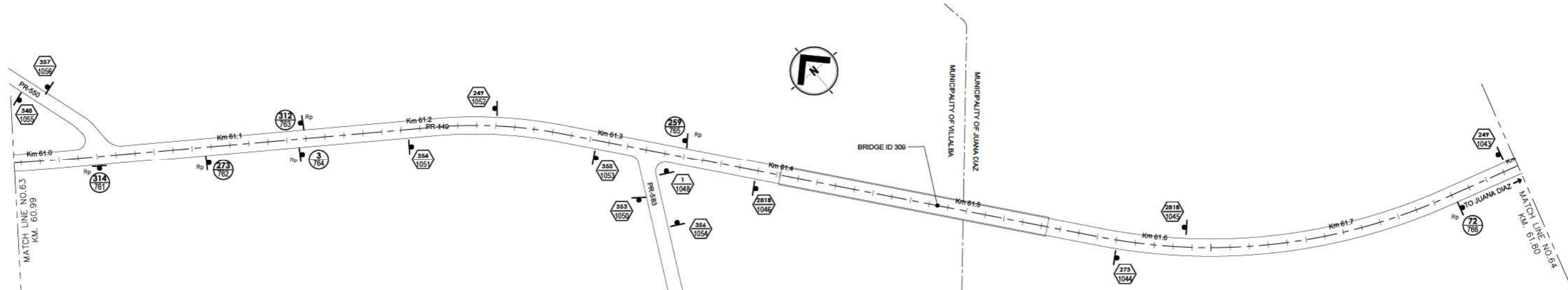
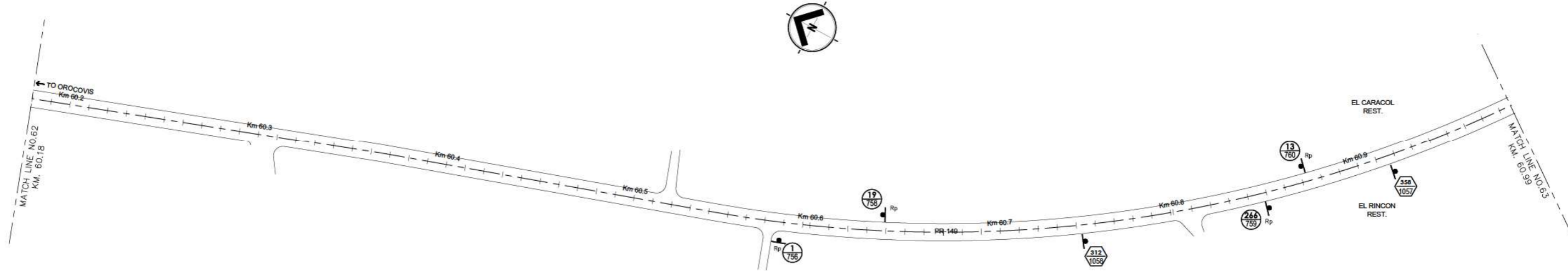


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
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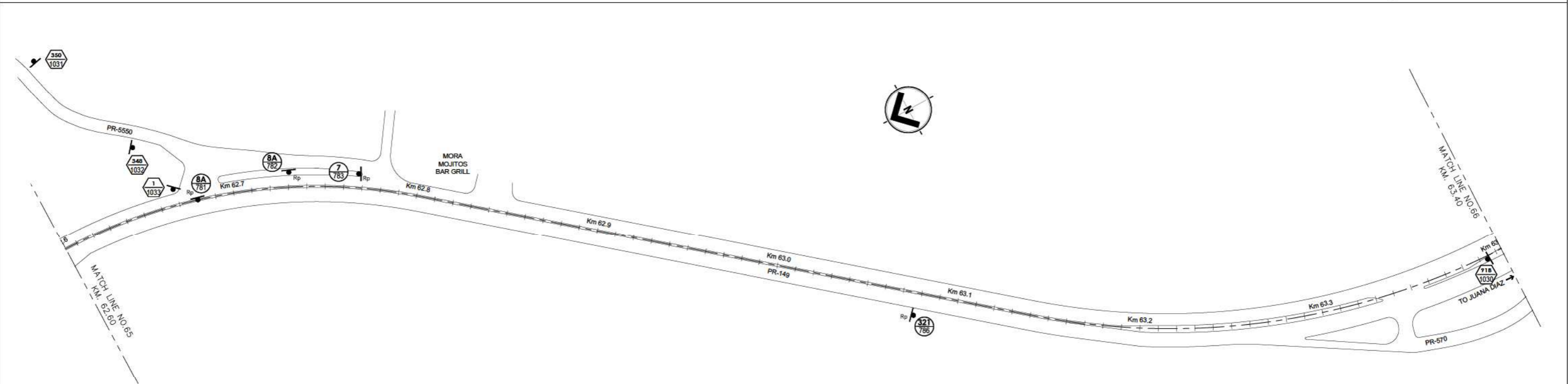
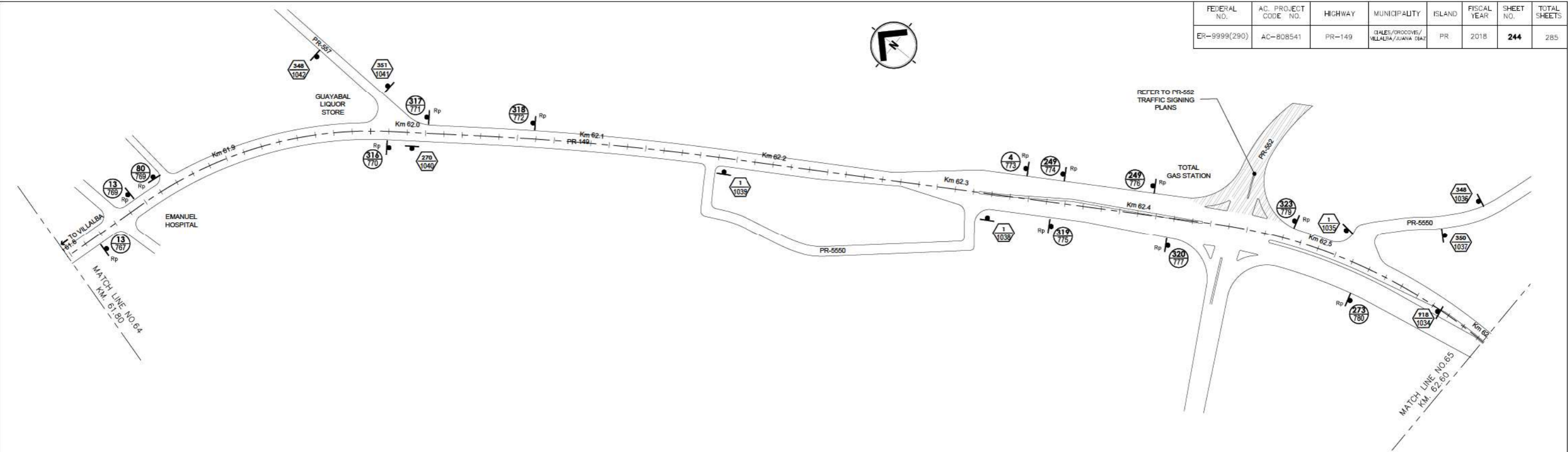
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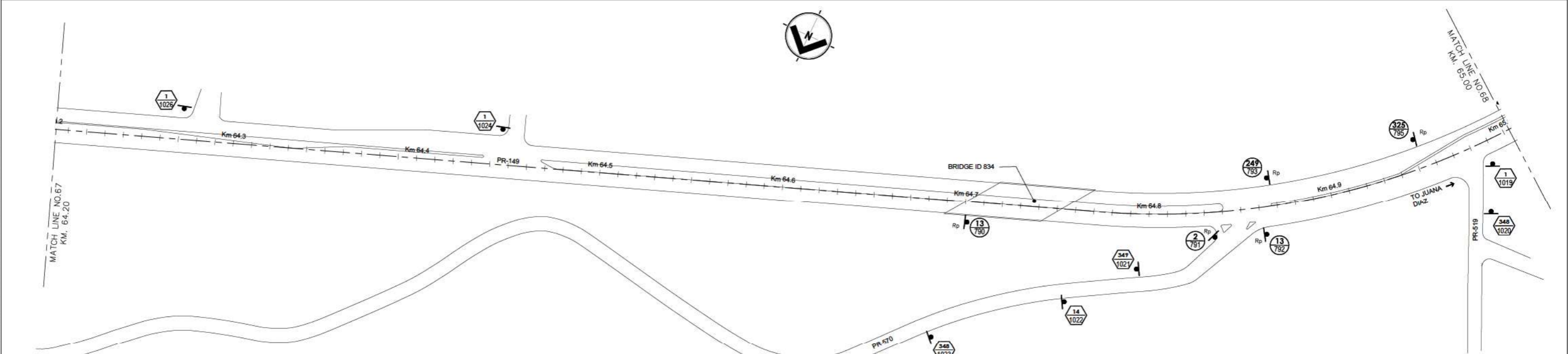
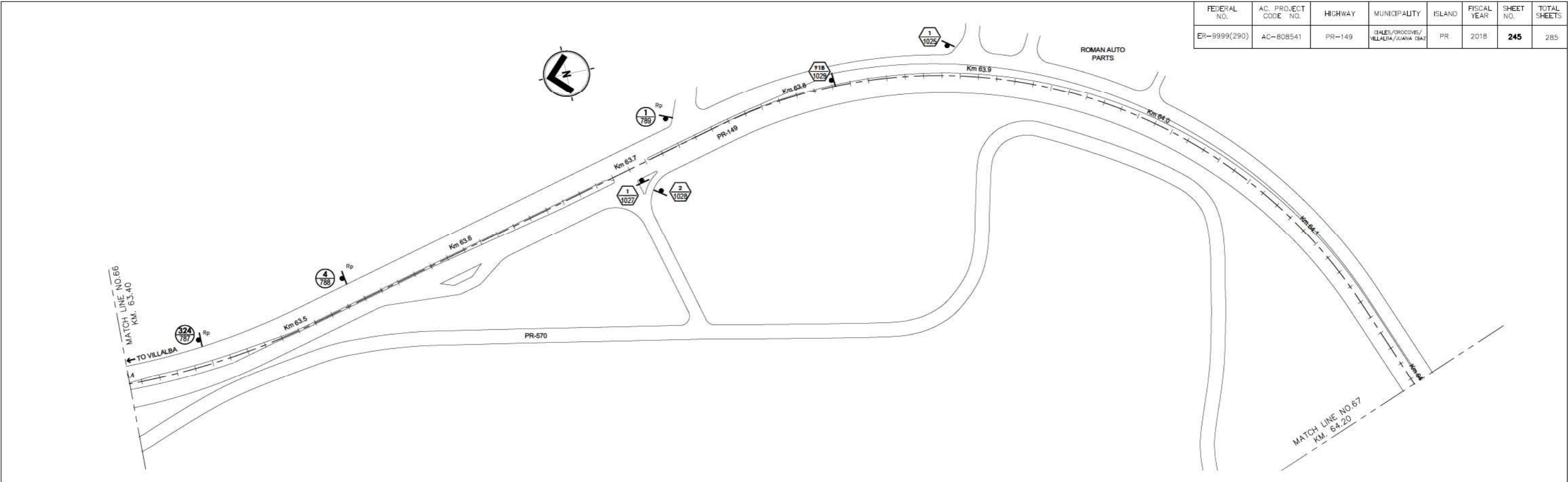
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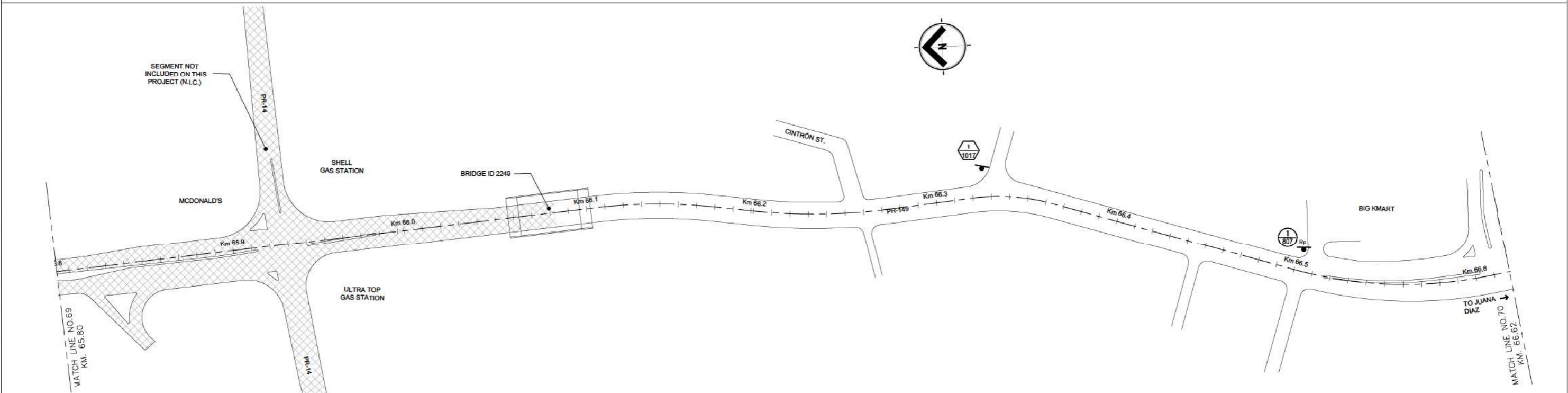
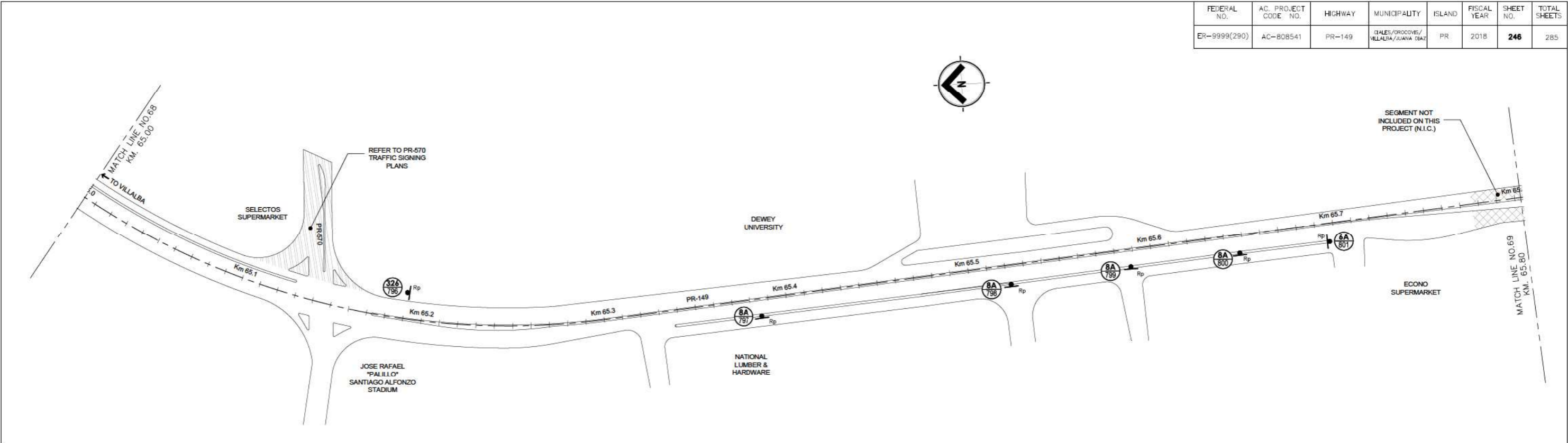
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TRAFFIC SIGNING PLAN

FEDERAL NO.	AC. PROJECT CODE NO.	HIGHWAY	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ER-9999(290)	AC-808541	PR-149	CIALES/OROCOVIS/VILLALBA/JUANA DIAZ	PR	2018	246	285



TRAFFIC SIGN LEGEND:

	NEW TRAFFIC SIGN (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXISTING SIGN TO BE REMOVED (SIGN DOES NOT APPLY ON THIS LOCATION) (SEE NOTE 1)
	EXISTING SIGN TO BE REPLACED (SEE NOTE 3) (SINGLE OR DOUBLE POST)		EXIST. GUARDRAIL TO BE REPLACED (SEE NOTE 4)
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WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

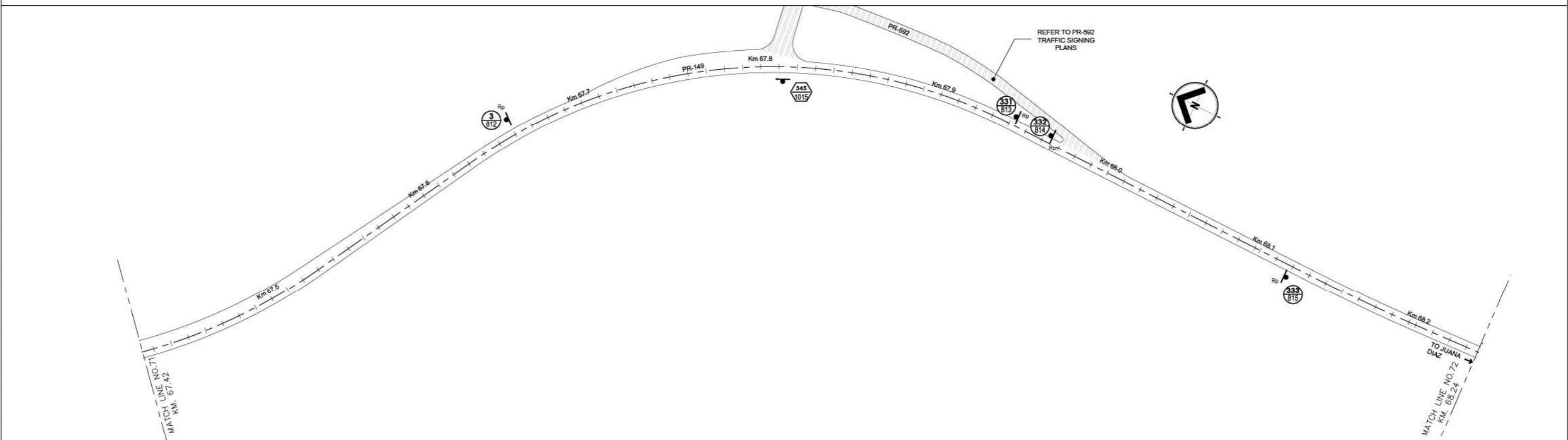
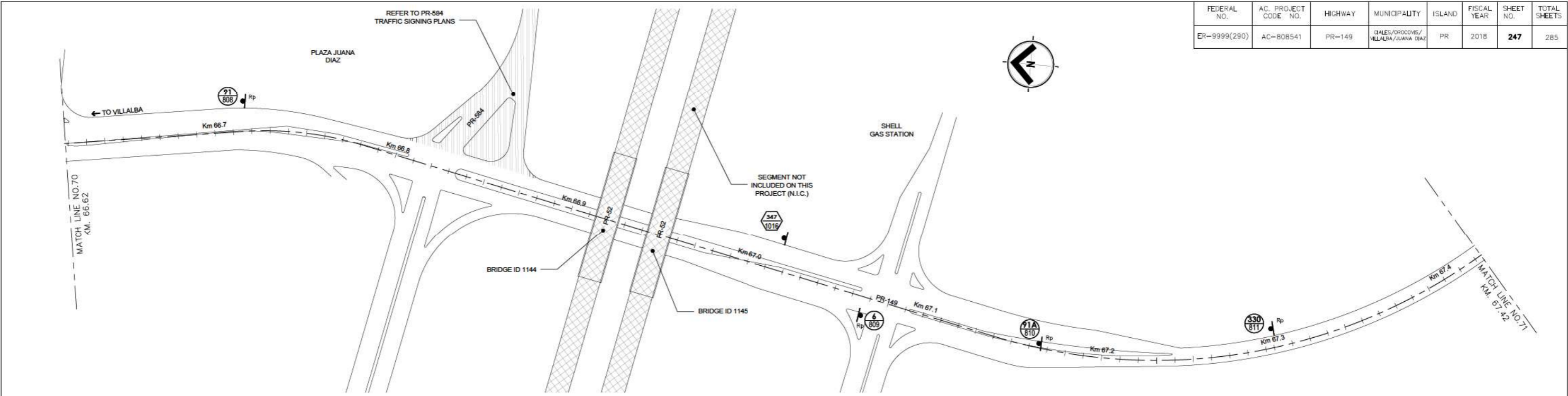
HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS

TRAFFIC SIGNING PLAN

FILE NAME: P:\PR\100-ISLANDWIDE\1924.0 PRHTA HURRICANE SIGNING & GUARDRAILS\06-BIDPHASE\01-SITE\ROUND 2\PR-149\PR-149_TS-1 - TS-DWG

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

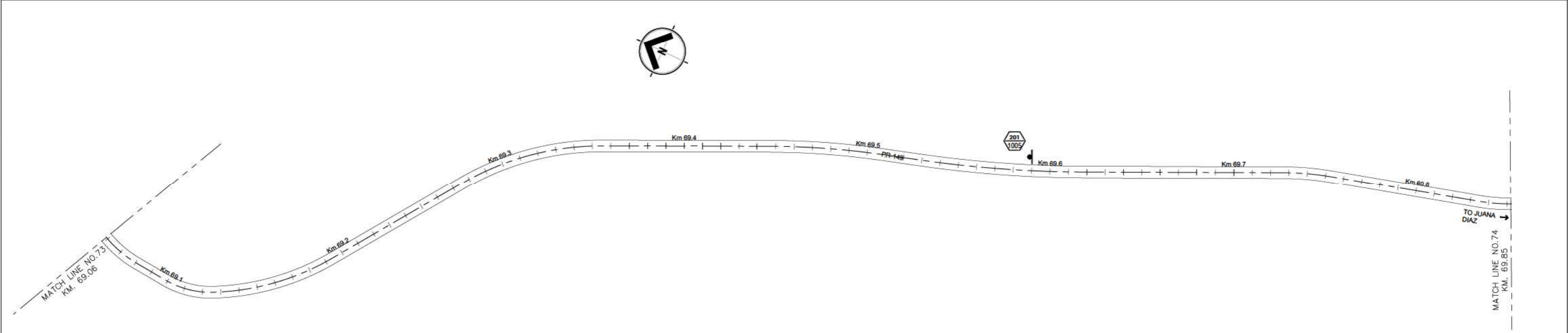
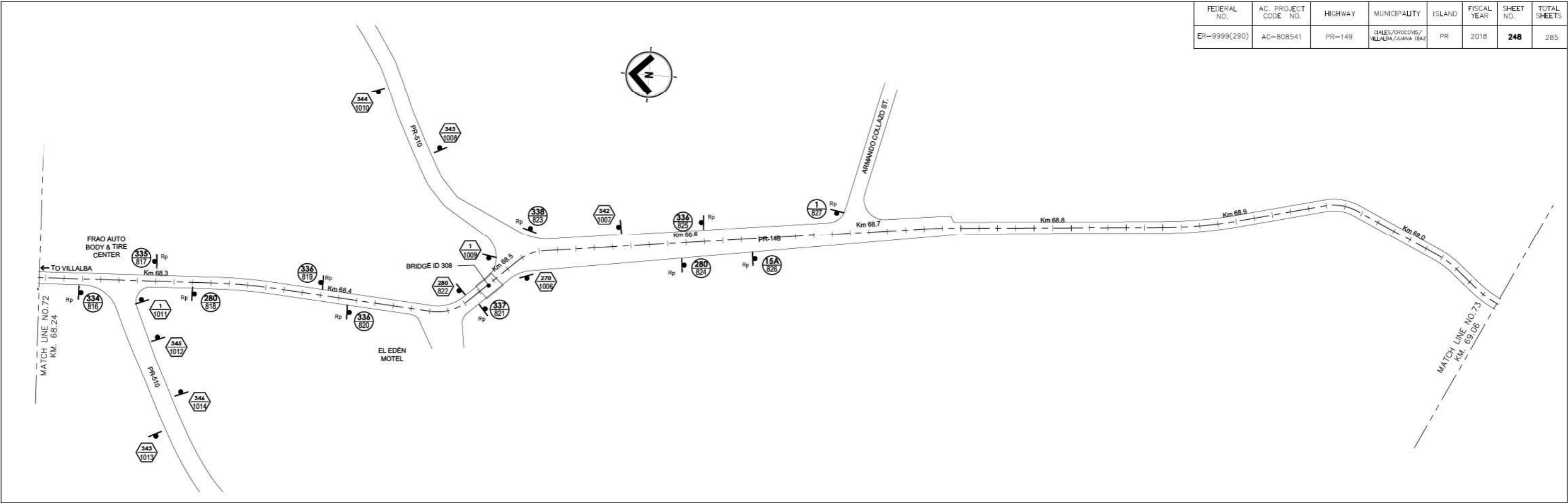
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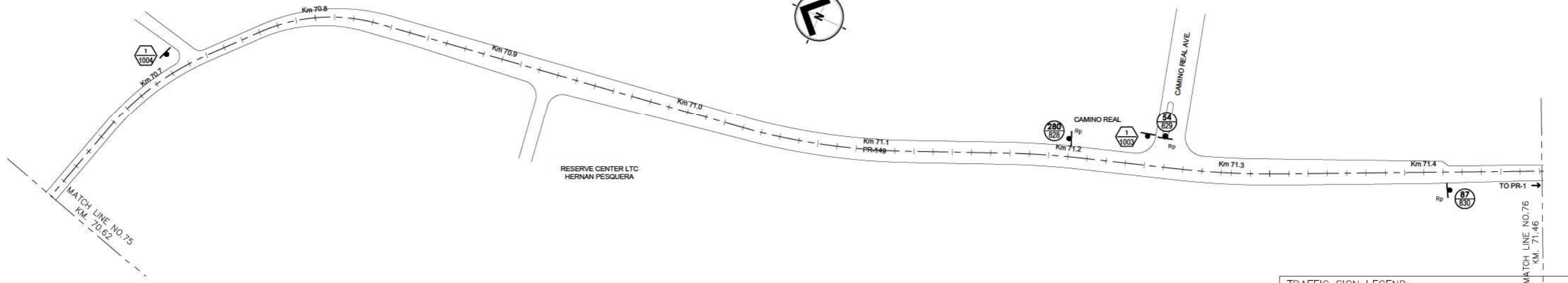
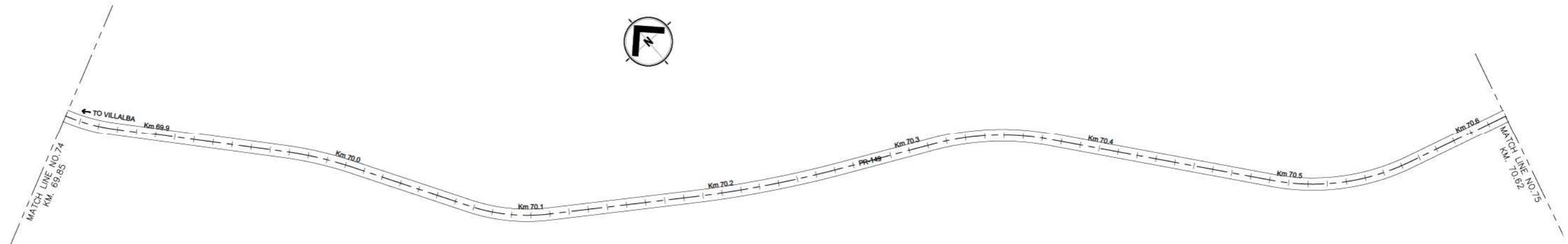
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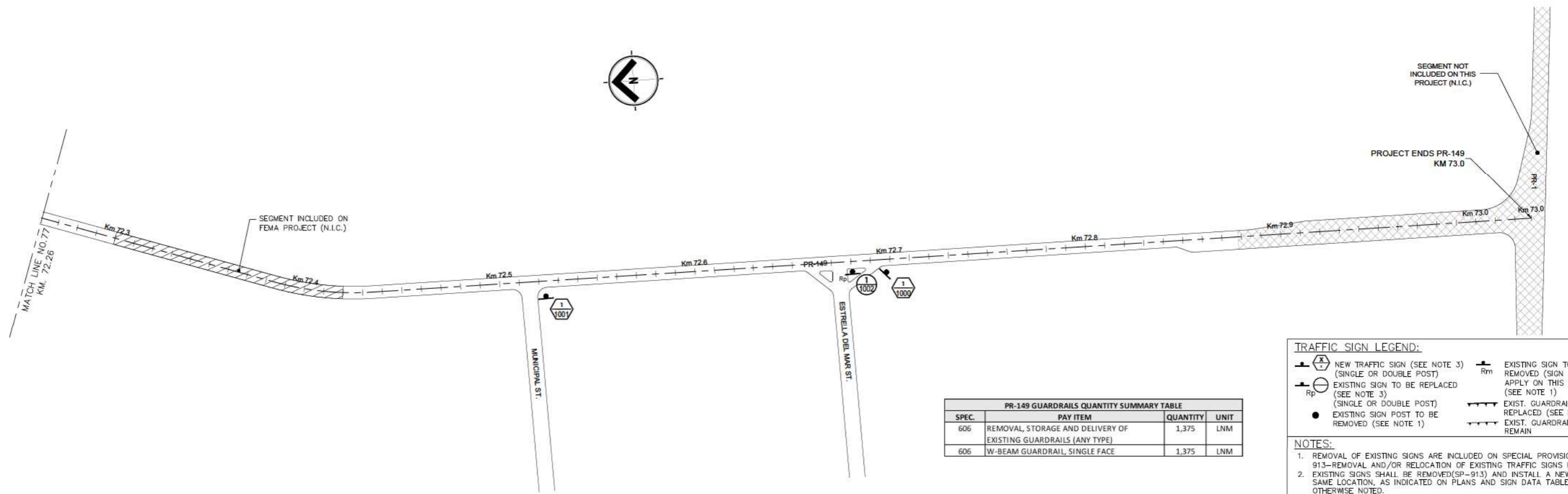
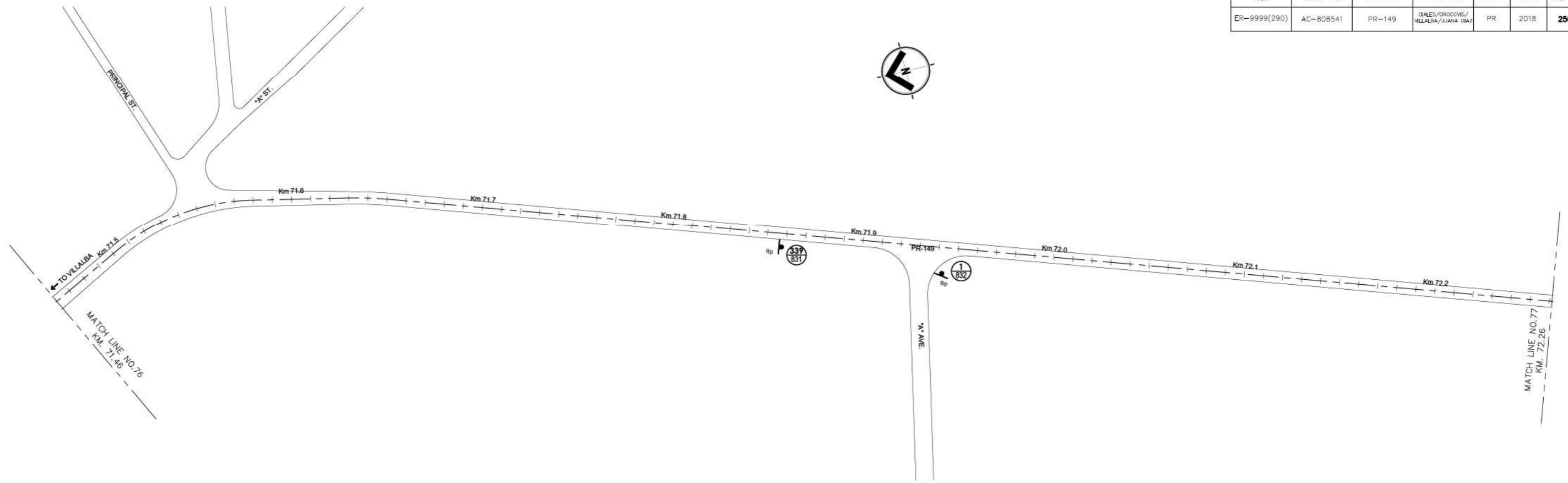


PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
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SPEC.	PAY ITEM	QUANTITY	UNIT
606	REMOVAL, STORAGE AND DELIVERY OF EXISTING GUARDRAILS (ANY TYPE)	1,375	LNM
606	W-BEAM GUARDRAIL, SINGLE FACE	1,375	LNM

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY





HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
P.R. - 149 FROM KM 12.80 TO KM 72.30
CIALES/OROCOVIS/VILLALBA/JUANA DIAZ, PUERTO RICO

DATE	REVISIONS




ATTACHMENT 2

REPRESENTATIVE PICTURES



Road ID	Location	Length(m)	Representative Pictures	Comment
PR-359	Yauco	km 0.0 to 0.24		Metal/concrete guardrails with traffic yellow paint negative to lead-based paint (<math><1.0 \text{ mg/cm}^2</math>).
PR-128	Yauco	km 0.0 to 58.90		Metal guardrails are unpainted.
PR-535	Juana Díaz	km 0.0 to 6.50		Metal/concrete guardrails with traffic yellow paint negative to lead-based paint (<math><1.0 \text{ mg/cm}^2</math>) or unpainted.
PR-551	Juana Díaz	km 0.0 to 3.75		Metal guardrails are unpainted.



Road ID	Location	Length(km)	Representative Pictures	Comment
PR-132	Guayanilla/ Peñuelas/ Ponce	km 0.0 to 25.50		Metal guardrail with traffic yellow paint POSITIVE to lead-based paint (≥ 1.0 mg/cm ²) within km 20.24 a 20.27
PR-552	Juana Díaz	km 0.0 to 3.5		Metal guardrails are unpainted.
PR-149	Ciales/ Orocovis/ Villalba/ Juana Díaz	km 12.80 to 72.30		Metal/concrete guardrails with traffic yellow paint negative to lead-based paint (< 1.0 mg/cm ²) or unpainted.



ATTACHMENT 3

XRF READINGS



Lead Based Paint - XRF Testing Results

Project: ACT-SIGNING AND GUARDRAILS
 Location: VARIOUS
 Client: INTEGRA DESIGN GROUP

Date: 20-Mar-19
 Inspector: NT
 XRF instrument: Heuresis Pb200i Alpha (serial # 1142)

I.D. #	Location	Floor	Side	Room	Structure	Substrate	Color	XRF (mg/cm ²)	Comments
-	CALIBRATION	-	-	-	-	-	-	0.30	
-	CALIBRATION	-	-	-	-	-	-	1.00	
-	CALIBRATION	-	-	-	-	-	-	1.00	
1	EXTERIOR	1	-	PR-535	GUARDRAIL	METAL	YELLOW	<1.0	NEAR KM 0.59
2	EXTERIOR	1	-	PR-535	GUARDRAIL	CONCRETE	YELLOW	<1.0	
3	EXTERIOR	1	-	PR-535	GUARDRAIL	METAL	YELLOW	<1.0	
4	EXTERIOR	1	-	PR-535	GUARDRAIL	CONCRETE	YELLOW	<1.0	
5	EXTERIOR	1	-	PR-535	GUARDRAIL	CONCRETE	YELLOW	<1.0	
6	EXTERIOR	1	-	PR-535	GUARDRAIL	METAL	YELLOW	<1.0	
7	EXTERIOR	1	-	PR-359	GUARDRAIL	METAL	YELLOW	<1.0	
8	EXTERIOR	1	-	PR-132	GUARDRAIL	METAL	YELLOW	2.00	KM 20.24 TO 20.27
9	EXTERIOR	1	-	PR-132	GUARDRAIL	METAL	YELLOW	2.10	
10	EXTERIOR	1	-	PR-132	GUARDRAIL	METAL	YELLOW	1.40	
11	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	NEAR KM 55.5
12	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
13	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	NEAR KM 54.8
14	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
15	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	KM 23.97 TO 24.02
16	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
17	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
18	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	KM 21.06 TO 21.09
19	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
20	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	KM 17.32 TO 17.36
21	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
22	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
23	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	KM 17.93 TO 17.97
24	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
25	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	KM 15.47 TO 15.51

Lead Based Paint - XRF Testing Results

Project: ACT-SIGNING AND GUARDRAILS
Location: VARIOUS
Client: INTEGRA DESIGN GROUP

Date: 20-Mar-19
Inspector: NT
 XRF instrument: Heuresis Pb200i Alpha (serial # 1142)

I.D. #	Location	Floor	Side	Room	Structure	Substrate	Color	XRF (mg/cm ²)	Comments
26	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
27	EXTERIOR	1	-	PR-149	GUARDRAIL	METAL	YELLOW	<1.0	
	CALIBRATION	-	-	-	-	-	-	1.00	
	CALIBRATION	-	-	-	-	-	-	1.00	
	CALIBRATION	-	-	-	-	-	-	0.30	

Others guardrails were unpainted.

ATTACHMENT 4

PGC-010 CERTIFICATION (NO PRESENCE OF LBP, partial)





**CERTIFICACION DE NO PRESENCIA DE PINTURA CON BASE DE PLOMO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

PGC- _____
PARA USO OFICIAL

Yo, Norma I. Torres, mayor de edad, soltera, y vecino de San Juan, Puerto Rico
(Inspector o Evaluador de Riesgos) (Estado Civil) (Municipio)

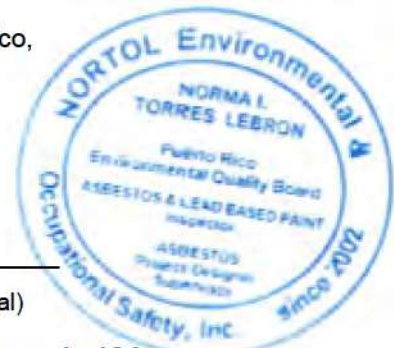
Dirección Postal: P.O. Box 366457, San Juan PR 00936-6457
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 761-5527 Oficina (787) 240-2040
Fax (787) 293-5774

Certifico que:

1. Estoy certificado por la Junta de Calidad Ambiental como (Inspector / Evaluador de Riesgos) con Número de Certificación 3253-1218-LI-003, la cual se encuentra vigente.
2. La estructura "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project" localizada en segmentos identificados de las carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce (parcial), PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz, P.R., la cual será objeto de una demolición se encuentra libre de pintura con base de plomo.
3. La información antes indicada es cierta y correcta.
4. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
5. Para que así conste, firmo la presente certificación en San Juan de Puerto Rico, (Municipio) hoy día 22 de noviembre de 2019.

Firma del Inspector o Evaluador de Riesgos (en original)



Nota : Deberá someter evidencia de la tarjeta o certificado provista por la JCA.

Esta certificación excluye los kilómetros 20.24 al 20.27 de la PR-132 donde existe un "guardrail" positivo a pintura con base de plomo.

ATTACHMENT 5
LBP INSPECTOR'S, COMPANY AND
XRF PCS QUALIFICATIONS





NAT-F121771-2

**PR Environmental Quality Board
Lead-based Paint Inspector and Company Accreditations**





GOBIERNO DE PUERTO RICO
JUNTA DE CALIDAD AMBIENTAL

25 de febrero de 2019

Sra. Norma I. Torres

Presidente
Nortol Environmental & Occupational Safety, Inc.
P.O. Box 366457
San Juan P.R. 00936.


Estimada señora Torres:

CERTIFICACIÓN DE EMPRESAS

Luego de haber evaluado la solicitud radicada por usted, para la certificación de la empresa **Nortol Environmental & Occupational Safety, Inc.**, para realizar actividades de mitigación de pintura con base de plomo se encontró que la misma cumple con los requisitos establecidos en el Capítulo V, del *Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo*. A esta empresa se le otorgó el número de certificación **5550-0219-LF-007** y su fecha de vigencia es desde el **5 de marzo de 2019** hasta el **4 de marzo de 2020**.

Cualquier duda con respecto, favor comunicarse con la Sra. Magaly Ríos López al teléfono 787-767-8181, extensión 3478.

Cordialmente,


José Roque Juliá
Jefe
División de Desperdicios Tóxicos



United States Environmental Protection Agency

This is to certify that



NORTOL Environmental & Occupational Safety, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

In the Jurisdiction of:

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires April 17, 2024

NAT-F121771-2

Certification #

February 21, 2019

Issued On



A handwritten signature in black ink that reads "Michelle Price".

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch



Lead Based Paint Inspection Report


PROJECT AC-808541


Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements
PR-512- Kms 0.0 - 4.5 Juana Díaz

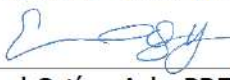
Prepared for:

Puerto Rico Highway and Transportation Authority
Centro Gubernamental Roberto Sánchez Vilella
PO Box 42007, San Juan, P.R. 00940-2007

Inspectors:


Angel A. Burgos
Asb. PREQB I.D. # ASB-0319-0191-SI | LBP PREQB I.D. # 3253-1218-LI-003


Eduardo Colón - Asb. PREQB I.D. # ASB-0919-0595-SI


Emanuel Ortíz - Asb. PREQB I.D. # ASB-0519-0286-SI

NORTOL'S PREQB Lead Firm #: 5550-0219-LF-007
NORTOL'S USEPA Lead Firm #: NAF-F121771-2
XRF-direct reading Instrument: *Pb200i Alpha (serial # 1142)*

Survey Date: November 22, 2019

Table of Contents

Executive Summary	3
Introduction	4
Regulatory Review	5
Survey Design & Methodology	6
Lead Based Paint Results	6
Conclusion and Limitations	7

Attachment 1 – Location Maps

Attachment 2 – Representative Pictures

Attachment 3 – LBP XRF Readings

Attachment 4 – PGC-010 LBP Certification (as applicable)

Attachment 5 – Inspector, Company and XRF-instrument Certificates



EXECUTIVE SUMMARY

The Puerto Rico Highway & Transportation Authority (PRHTA), as part of their project “Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, PR-512 (kms 0.0 – 4.50) Project AC-808541, requested a Lead Based Paint (LBP) survey. The project is located at following PR road’s segment as indicated in Attachment 1.0 (Location Maps):

Road ID	Kilometer	City
PR-512	km 0.0 a 4.50	Juana Díaz

The assessment was conducted by Nortol Environmental & Occupational Safety, Inc., under agreement with Integra Design Group (IDG) as PRHTA representative. The field work was executed on November 22, 2019 in coordination with Ms. Luz M. Rodríguez from IDG.

The XRF-readings shown that some metal safety guardrails and/or its components from segments at PR-512 (km 0.60 to 0.65), (km 1.26 to 1.30), (km 2.04 to 2.08), (km 2.28 to 2.32) and (km 2.71 to 2.75) are positive to Lead-based Paint. The established threshold for the classification of painted components as lead bearing per federal and local regulations is 1.0 mg/cm². Other guardrails are negative to LBP or are unpainted. Representative pictures are included as Attachment 2.0 and green marks on positive readings were posted on site for reference purposes.



I. INTRODUCTION

A. Lead-based Paint background

Lead is one of the most common over exposure found in industry. It is also a major potential public health risk. Lead poisoning is a leading environmentally induced illness in children. At greatest risk are children under the age of six because they are undergoing rapid neurological and physical development. In general population, lead may be present at hazardous concentrations in food, water, and air. Sources include lead-based paint, urban soil and dust, and drinking water.

Lead is commonly added to industrial paints because of its characteristic to resist corrosion. Industries with particularly high potential exposures include: construction work involving welding, cutting, brazing, blasting, etc., on lead paint surfaces; most smelter operations either as a trace contaminant or as a major product; secondary lead smelters where lead is recovered from batteries; radiator repair shops; and firing ranges. Oral ingestion may represent a major route of exposure in contaminated workplaces. Once in the blood, lead is distributed primarily among three routes - blood, soft tissue (kidney, bone marrow, liver, and brain) and mineralizing tissue (bones and teeth).

B. Survey Purpose and Scope

The purpose of this survey was to locate and identify if Lead-based Painted components are present in the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, PR-512 (kms 0.0-4.5) Project AC-808541. The scope of work for this project consisted of the following tasks:

- ✓ Review the information for proposal as provided by the client;
- ✓ Coordinate field work with the client's representative;
- ✓ Achieve inventory of painted surfaces (guardrails);
- ✓ Select locations to be tested;
- ✓ Perform XRF testing;
- ✓ Review and evaluate the data;
- ✓ Report findings.



II. REGULATORY REVIEW

Hazard of lead in paint has been defined by the Department of Housing and Urban Development as 1.0 mg/cm² as measured by an XRF instrument, or Atomic Absorption Spectroscopy (AAS); or 0.5% by weight (or 5,000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X and by local regulation.

Although Occupational Safety and Health Administration (OSHA) regulations for occupational lead exposure have been in effect since 1971 for the construction and general industries, the agency recognized the need to provide better protection and revised the regulations for general industry in 1978. The 1978 lead standard, however, excluded the construction industry from coverage because of insufficient information regarding lead use in construction.

In 1990, the National Institute for Occupational Safety and Health (NIOSH) set a national goal to eliminate worker exposures resulting in blood lead concentrations greater than 25 micrograms per deciliter (25 µg/dl) of whole blood. Consequently, OSHA began developing a proposal for a comprehensive standard regulating occupational exposure to lead in construction. In October 1992, the Congress passed Section 1031 of Title X of the Housing and Community Development Act of 1992 (P. L. 102-550) requiring OSHA to issue an interim final lead standard for the construction industry, effective until OSHA issues a final standard. The interim final rule, published on May 4, 1993, amends the OSHA standards for occupational health and environmental controls in Subpart D of Title 29 *Code of Federal Regulations* (CFR) 1926 by adding a new section 1926.62, containing employee protection requirements for construction workers exposed to lead.

On July 1998 the PR *Departamento de Recursos Naturales y Ambientales*-former PR Environmental Quality Board regulations regarding to Lead Based Paint was created to issue activity permits, accredit institutions and certificate persons involved in Lead Based Paint activities in Puerto Rico. Local regulations require **all lead to be managed as a special waste**. On August 2019 this regulation was replaced by the new *Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo*. To obtain a demolition permit in Puerto Rico is necessary to includes a certification (OGP-PGC-010 or equivalent) stating that there is no lead-based paint in the project.



III. SURVEY DESIGN & METHODOLOGY

Inspection scope and schedule was coordinated with Luz M. Rodríguez from Integra Design Group as PRHTA representative to be conducted within specific day/hours.

The applicable guardrail's in the project scope areas were inspected for LBP. The survey was performed following applicable current regulations leading accredited inspections in Puerto Rico.

The technique used for the assessment of the painted components was the XRF instrument. Portable XRF instruments expose a component to X-ray or gamma radiation, which causes lead to emit X rays with a characteristic frequency or energy. The intensity of this radiation is measured by the instrument. The XRF instrument was set at Standard Paint Mode showing reading "Positive" or "Negative" with a 95% confident reading. The result is reported in mg/cm².

IV. Lead Based Paint Survey Results

By definitions set forth in 24 CFR Part § 35.86: *"Lead-Based Paint (LBP) means paint or other surface coatings that contain lead equal to or in excess of 1.0 milligram per square centimeter or 0.5 percent by weight."*

At the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, PR-512 (kms 0.0-4.5) Project AC-808541, the metal safety guardrails from the segments described in Table 2.0 were found to contain lead-based paint at or above PR DNR and Department of Housing and Urban Development regulatory limit of 1.0 mg/cm².

Table 2.0
Guardrails and/or bases positive to Lead-based Paint

Road ID	Location (segment)	Components	Approx. existing LBP amount
PR-512	Km 0.60 to 0.65	initial joint (corner)	3 square feet
PR-512	Km 1.26 to 1.30	guardrails, bases and joints	150 square feet
PR-512	Km 2.04 to 2.08	guardrails	100 square feet
PR-512	Km 2.28 to 2.32	guardrails, bases and joints	120 square feet
PR-512	Km 2.71 to 2.75	guardrails, bases and joints	100 square feet

Green marks for positive readings were posted on site for reference purposes

The XRF-instrument's readings were between 1.0 and 3.5 mg/cm². Most of the metal barriers/components have traffic yellow paint (some below white paint). The XRF readings are tabulated in the Attachment 3.0. Few guardrails are negative to LBP or are unpainted. See Attachment 4.0 for the PGC- 010 (no Lbp presence certification) for the negative segment.



V. Conclusion and Limitations

The following options are promulgating by the PR *Departamento de Recursos Naturales y Ambientales* - former PR Environmental Quality Board regulations and/or the US Environmental Protection Agency (EPA):

- A Lead-Based Paint mitigation project shall be conducted prior to any demolition when lead is present in painted components. The LBP abatement project shall be in accordance with the new *Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo*.
- Federal and local regulation provides that steel (or metal) structures with Lead-based Paint be considered as recycling material. Scrap metal is a relatively easy waste to recycle. Many operators have found that scrap metal recycling companies will collect and remove materials such as tanks, drums, and other types of scrap metal from the lease. Additional consideration should be given to the associated regulatory requirements. Scrap metal that is recycled is not subject to hazardous waste regulations; but it can be considered hazardous waste if disposed.

The results, findings, and conclusions expressed in this report are based only on conditions that were noted during the Nortol's assessment of the PRHTA "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project, PR-512 (kms 0.0 – 4.50) Project AC-808541, on November 22, 2019. Any conditions or materials that could not be visually identified on the surface were not inspected and may differ from those conditions or materials noted. It was not within the scope of the inspection to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Nortol's selection of reading locations and frequency of readings was based on Nortol's observations and the assumption that like components in the same area are homogeneous in paint content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential lead abatement contractors in locating lead-based paint. The abatement bidders are responsible for visiting the project to confirm the estimated amounts.

See Attachment 5.0 for company, personnel and instrument's certifications.

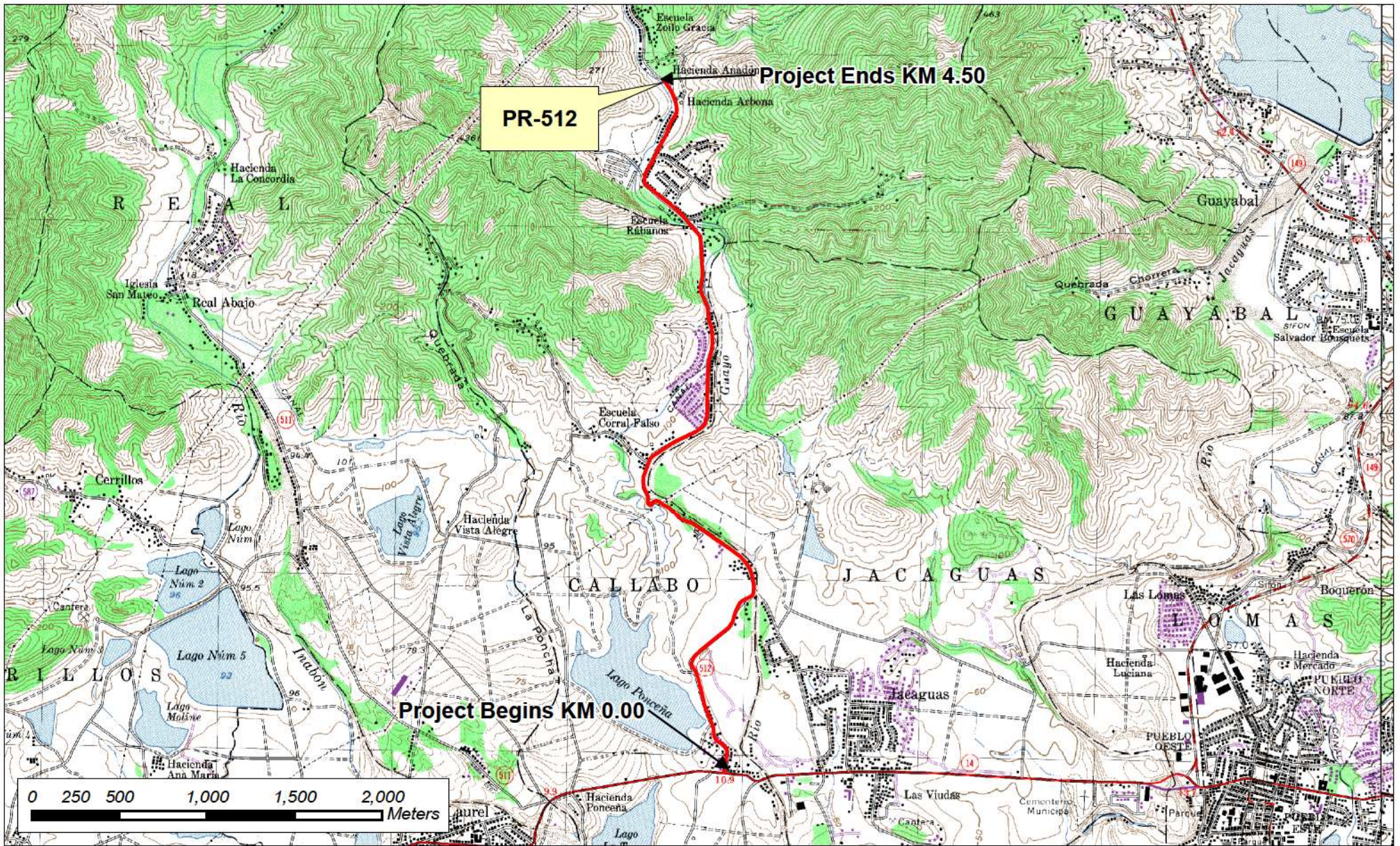


ATTACHMENT 1

LOCATION MAP & DIAGRAMS

(LBP POSITIVE GUARDRAILS ARE SHOWED)





HURRICANE MARIA EFFORTS FOR SIGNAGE & GUARDRAILS

PR-512 FROM KM 0.00 TO KM 4.50 JUANA DIAZ, PR

ID: OPE-F-24-B FRAME LETTER

INTEGR
 INTEGRA DESIGN GROUP PSC
 (787) 767 2111 www.integrapr.com

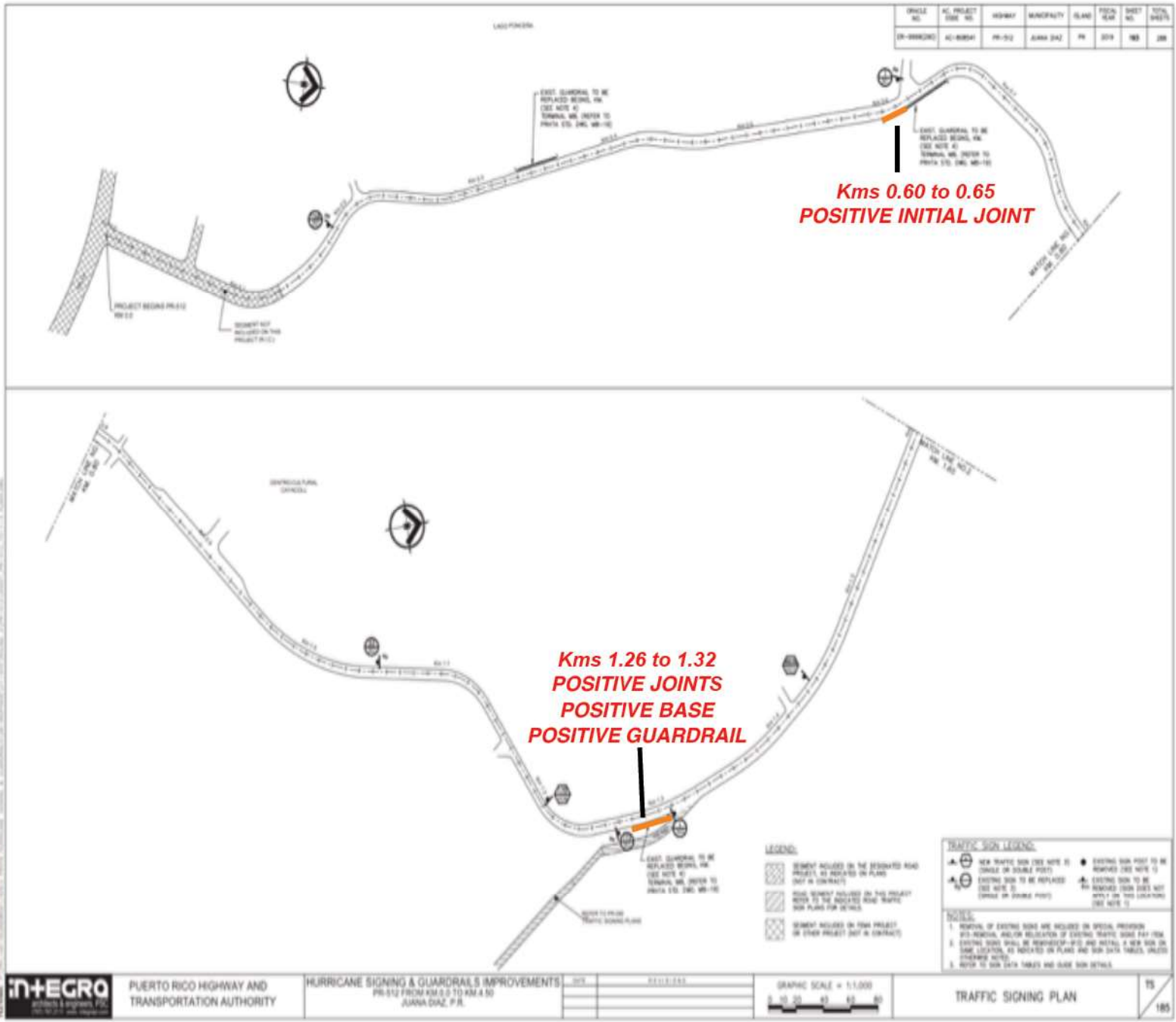
Location Map

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SHEET INFORMATION

DATE SUBMITTED: 2/3/2020	PROJECT NO. 100-1924.0
SCALE: 1:30,000	DESCRIPTION FIGURE





SCALE NO.	AL. PROJECT CODE NO.	ROUTE	MUNICIPALITY	FLAND	FOUR LEAD	SHEET NO.	TOTAL SHEETS
03-000000	40-000041	PR-012	JUANA DIAZ	RR	010	104	204

Kms 2.04 to 2.80
POSITIVE GUARDRAIL YELLOW
POSITIVE GUARDRAIL WHITE

Kms 2.28 to 2.32
POSITIVE GUARDRAIL YELLOW
POSITIVE GUARDRAIL WHITE
POSITIVE BASE GUARDRAIL YELLOW
POSITIVE BASE GUARDRAIL WHITE
POSITIVE JOINT GUARDRAIL YELLOW
POSITIVE JOINT GUARDRAIL WHITE

Kms 2.71 to 2.75
POSITIVE GUARDRAIL YELLOW
POSITIVE GUARDRAIL WHITE
POSITIVE BASE GUARDRAIL YELLOW
POSITIVE BASE GUARDRAIL WHITE
POSITIVE JOINT GUARDRAIL YELLOW
POSITIVE JOINT GUARDRAIL WHITE

LEGEND:

- SEGMENT INCLUDED IN THE DESIGNATED ROAD PROJECT, AS INDICATED ON PLANS (NOT IN CONTRACT)
- ROAD SEGMENT INCLUDED IN THIS PROJECT (NOT IN THE HIGHER ORDER ROAD TRAFFIC SIGN PLANS FOR DETAILS)
- SEGMENT INCLUDED IN OTHER PROJECT (NOT IN CONTRACT)

TRAFFIC SIGN LEGEND:

- NEW TRAFFIC SIGN (SEE NOTE 1)
- EXISTING SIGN TO BE REPLACED (SEE NOTE 1)
- EXISTING SIGN TO BE REMOVED (SEE NOTE 1)
- NEW TRAFFIC SIGN (SEE NOTE 2)
- EXISTING SIGN TO BE REPLACED (SEE NOTE 2)
- EXISTING SIGN TO BE REMOVED (SEE NOTE 2)

- NOTES:**
- REMOVAL OF EXISTING SIGNS ARE INCLUDED IN SPECIAL PROVISION
 - EXISTING SIGNS SHALL BE REMOVED/REPLACED AND INSTALL A NEW SIGN IN SAME LOCATION, AS INDICATED ON PLANS AND SIGN DATA TABLES, UNLESS OTHERWISE NOTED
 - REFER TO SIGN DATA TABLES AND GUIDE SIGN DETAILS



PUERTO RICO HIGHWAY AND
 TRANSPORTATION AUTHORITY

HURRICANE SIGNING & GUARDRAILS IMPROVEMENTS
 PR-012 FROM KM 0.0 TO KM 4.50
 JUANA DIAZ, P.R.

DATE	REVISIONS

GRAPHIC SCALE = 1:1,000
 0 10 20 30 40

TRAFFIC SIGNING PLAN

ATTACHMENT 2

REPRESENTATIVE PICTURES

(GREEN MARKS FOR LBP POSITIVE READINGS WERE POSTED ON SITE)





Lead-based paint Km 0.33 - 0.37 negative: Yellow and white metal security guardrail & yellow metal base guardrail.





Lead-based paint Km 0.60 - 0.65 positive: Initial yellow metal joint.





Lead-based paint Km 1.26 - 1.30 positive: Yellow and white metal security guardrail, yellow metal base guardrail & yellow metal joints.





Lead-based paint Km 2.04 - 2.08 positive: Yellow and white metal security guardrail & white metal base guardrail.





Lead-based paint Km 2.28 - 2.32 positive: Yellow and white metal security guardrail, yellow and white metal base guardrail & yellow and white metal joints.





Lead-based paint Km 2.71 - 2.75 positive: Yellow and white metal security guardrail, yellow and white metal base guardrail & yellow and white metal joints.



ATTACHMENT 3

XRF READINGS



Lead Based Paint - XRF Readings

Project: ACT - Signing and Guardrails AC-808541
Location: PR-512, Km 0.0 to 4.50 Juana Diaz
Client: PRHTA and Integra Design Group

Date: 22-Nov-19
Inspector: AB
 XRF instrument: Pb200i Alpha (serials #1142 & #2279)

I.D. #	Location	Floor	Side	Room	Structure	Substrate	Color	XRF (mg/cm ²)	Comments
-	CALIBRATION	-	-	-	-	-	-	1.10	
-	CALIBRATION	-	-	-	-	-	-	1.00	
-	CALIBRATION	-	-	-	-	-	-	0.80	
1	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
2	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
3	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
4	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
5	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
6	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
7	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
8	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	WHITE	<1.0	
9	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	WHITE	<1.0	
10	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	WHITE	<1.0	
11	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	WHITE	<1.0	
12	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	WHITE	<1.0	
13	EXTERIOR	1	-	KM 0.33 - 0.37	SECURITY GUARDRAIL	METAL	WHITE	<1.0	
14	EXTERIOR	1	-	KM 0.33 - 0.37	BASE GUARDRAIL	METAL	YELLOW	<1.0	
15	EXTERIOR	1	-	KM 0.33 - 0.37	BASE GUARDRAIL	METAL	YELLOW	<1.0	
16	EXTERIOR	1	-	KM 0.33 - 0.37	BASE GUARDRAIL	METAL	YELLOW	<1.0	
17	EXTERIOR	1	-	KM 0.33 - 0.37	BASE GUARDRAIL	METAL	YELLOW	<1.0	
18	EXTERIOR	1	-	KM 0.33 - 0.37	BASE GUARDRAIL	METAL	YELLOW	<1.0	
19	EXTERIOR	1	-	KM 0.33 - 0.37	BASE GUARDRAIL	METAL	YELLOW	<1.0	
20	EXTERIOR	1	-	KM 0.60 - 0.65	SECURITY GUARDRAIL	METAL	YELLOW	<1.0	
21	EXTERIOR	1	-	KM 0.60 - 0.65	BASE GUARDRAIL	METAL	YELLOW	<1.0	

Lead Based Paint - XRF Readings

Project: ACT - Signing and Guardrails AC-808541
Location: PR-512, Km 0.0 to 4.50 Juana Diaz
Client: PRHTA and Integra Design Group

Date: 22-Nov-19
Inspector: AB
 XRF instrument: Pb200i Alpha (serials #1142 & #2279)

I.D. #	Location	Floor	Side	Room	Structure	Substrate	Color	XRF (mg/cm ²)	Comments
22	EXTERIOR	1	-	KM 0.60 - 0.65	BASE GUARDRAIL	METAL	YELLOW	<1.0	
23	EXTERIOR	1	-	KM 0.60 - 0.65	BASE GUARDRAIL	METAL	YELLOW	<1.0	
24	EXTERIOR	1	-	KM 0.60 - 0.65	BASE GUARDRAIL	METAL	YELLOW	<1.0	
25	EXTERIOR	1	-	KM 0.60 - 0.65	BASE GUARDRAIL	METAL	YELLOW	<1.0	
26	EXTERIOR	1	-	KM 0.60 - 0.65	BASE GUARDRAIL	METAL	YELLOW	<1.0	
27	EXTERIOR	1	-	KM 0.60 - 0.65	BASE GUARDRAIL	METAL	YELLOW	<1.0	
28	EXTERIOR	1	-	KM 0.60 - 0.65	JOINT INITIAL	METAL	YELLOW	1.3	POSITIVE
29	EXTERIOR	1	-	KM 0.60 - 0.65	JOINT INITIAL	METAL	YELLOW	2.2	POSITIVE
30	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.8	POSITIVE
31	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.8	POSITIVE
32	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.6	POSITIVE
33	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.5	POSITIVE
34	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.4	POSITIVE
35	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.3	POSITIVE
36	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.2	POSITIVE
37	EXTERIOR	1	-	KM 1.26 - 1.30	JOINTS	METAL	YELLOW	1.1	POSITIVE
38	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.7	POSITIVE
39	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.7	POSITIVE
40	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.6	POSITIVE
41	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.5	POSITIVE
42	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.4	POSITIVE
43	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.3	POSITIVE
44	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.2	POSITIVE
45	EXTERIOR	1	-	KM 1.26 - 1.30	BASE GUARDRAIL	METAL	YELLOW	1.1	POSITIVE
46	EXTERIOR	1	-	KM 1.26 - 1.30	GUARDRAIL	METAL	YELLOW	2.0	POSITIVE
47	EXTERIOR	1	-	KM 1.26 - 1.30	GUARDRAIL	METAL	YELLOW	1.9	POSITIVE

Lead Based Paint - XRF Readings

Project: ACT - Signing and Guardrails AC-808541
Location: PR-512, Km 0.0 to 4.50 Juana Diaz
Client: PRHTA and Integra Design Group

Date: 22-Nov-19
Inspector: AB
 XRF instrument: Pb200i Alpha (serials #1142 & #2279)

I.D. #	Location	Floor	Side	Room	Structure	Substrate	Color	XRF (mg/cm ²)	Comments
48	EXTERIOR	1	-	KM 1.26 - 1.30	GUARDRAIL	METAL	YELLOW	1.8	POSITIVE
49	EXTERIOR	1	-	KM 1.26 - 1.30	GUARDRAIL	METAL	YELLOW	1.7	POSITIVE
50	EXTERIOR	1	-	KM 1.26 - 1.30	GUARDRAIL	METAL	YELLOW	1.6	POSITIVE
51	EXTERIOR	1	-	KM 1.26 - 1.30	GUARDRAIL	METAL	YELLOW	1.5	POSITIVE
52	EXTERIOR	1	-	KM 1.26 - 1.30	GUARDRAIL	METAL	YELLOW	1.3	POSITIVE
53	EXTERIOR	1	-	KM 1.31	GUARDRAIL	METAL	YELLOW	1.3	POSITIVE
54	EXTERIOR	1	-	KM 1.32	JOINTS	METAL	YELLOW	1.8	POSITIVE
55	EXTERIOR	1	-	KM 1.33	BASE GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
56	EXTERIOR	1	-	KM 1.34	JOINTS	METAL	YELLOW	<1.0	NEGATIVE
57	EXTERIOR	1	-	KM 2.04 - 2.08	SECURITY GUARDRAIL	METAL	YELLOW	1.8	POSITIVE
58	EXTERIOR	1	-	KM 2.04 - 2.08	SECURITY GUARDRAIL	METAL	YELLOW	1.8	POSITIVE
59	EXTERIOR	1	-	KM 2.04 - 2.08	SECURITY GUARDRAIL	METAL	YELLOW	1.6	POSITIVE
60	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
61	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
62	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
63	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
64	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
65	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
66	EXTERIOR	1	-	KM 2.04 - 2.08	GUARDRAIL	METAL	WHITE	3.5	yellow is below
67	EXTERIOR	1	-	KM 2.04 - 2.08	GUARDRAIL	METAL	WHITE	3.5	POSITIVE
68	EXTERIOR	1	-	KM 2.04 - 2.08	GUARDRAIL	METAL	WHITE	3.4	POSITIVE
69	EXTERIOR	1	-	KM 2.04 - 2.08	GUARDRAIL	METAL	WHITE	3.3	POSITIVE
70	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
71	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
72	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
73	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
74	EXTERIOR	1	-	KM 2.04 - 2.08	BASE GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
75	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	WHITE	3.1	POSITIVE
76	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
77	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE

Lead Based Paint - XRF Readings

Project: ACT - Signing and Guardrails AC-808541
Location: PR-512, Km 0.0 to 4.50 Juana Diaz
Client: PRHTA and Integra Design Group

Date: 22-Nov-19
Inspector: AB
 XRF instrument: Pb200i Alpha (serials #1142 & #2279)

I.D. #	Location	Floor	Side	Room	Structure	Substrate	Color	XRF (mg/cm ²)	Comments
78	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
79	EXTERIOR	1	-	KM 2.04 - 2.08	JOINT GUARDRAIL	METAL	WHITE	<1.0	NEGATIVE
80	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	YELLOW	3.4	POSITIVE
81	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	YELLOW	3.5	POSITIVE
82	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	YELLOW	3.3	POSITIVE
83	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	YELLOW	3.2	POSITIVE
84	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	YELLOW	3.1	POSITIVE
85	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	YELLOW	3.0	POSITIVE
86	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	YELLOW	1.6	POSITIVE
87	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	YELLOW	1.5	POSITIVE
88	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	YELLOW	1.4	POSITIVE
89	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	YELLOW	1.3	POSITIVE
90	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	YELLOW	2.4	POSITIVE
91	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	YELLOW	2.3	POSITIVE
92	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	YELLOW	2.2	POSITIVE
93	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	YELLOW	2.1	POSITIVE
94	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	YELLOW	2.0	POSITIVE
95	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	YELLOW	1.9	POSITIVE
96	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	YELLOW	1.8	POSITIVE
97	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	WHITE	3.3	POSITIVE
98	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	WHITE	3.3	POSITIVE
99	EXTERIOR	1	-	KM 2.28 - 2.32	SECURITY GUARDRAIL	METAL	WHITE	3.1	POSITIVE
100	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	WHITE	3.1	POSITIVE
101	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	WHITE	3.1	POSITIVE
102	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	WHITE	3.0	POSITIVE
103	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	WHITE	3.1	POSITIVE
104	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	WHITE	2.9	POSITIVE
105	EXTERIOR	1	-	KM 2.28 - 2.32	JOINT GUARDRAIL	METAL	WHITE	2.8	POSITIVE
106	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
107	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE

Lead Based Paint - XRF Readings

Project: ACT - Signing and Guardrails AC-808541
Location: PR-512, Km 0.0 to 4.50 Juana Diaz
Client: PRHTA and Integra Design Group

Date: 22-Nov-19
Inspector: AB
 XRF instrument: Pb200i Alpha (serials #1142 & #2279)

I.D. #	Location	Floor	Side	Room	Structure	Substrate	Color	XRF (mg/cm ²)	Comments
108	EXTERIOR	1	-	KM 2.28 - 2.32	BASE GUARDRAIL	METAL	YELLOW	<1.0	NEGATIVE
109	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	YELLOW	2.5	POSITIVE
110	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	YELLOW	1.6	POSITIVE
111	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	YELLOW	1.2	POSITIVE
112	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	YELLOW	1.0	POSITIVE
113	EXTERIOR	1	-	KM 2.71 - 2.75	JOINT GUARDRAIL	METAL	YELLOW	1.8	POSITIVE
114	EXTERIOR	1	-	KM 2.71 - 2.75	JOINT GUARDRAIL	METAL	YELLOW	1.3	POSITIVE
115	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	WHITE	2.2	POSITIVE
116	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	WHITE	2.1	POSITIVE
117	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	WHITE	2.0	POSITIVE
118	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	WHITE	1.7	POSITIVE
119	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	WHITE	1.5	POSITIVE
120	EXTERIOR	1	-	KM 2.71 - 2.75	SECURITY GUARDRAIL	METAL	WHITE	1.3	POSITIVE
121	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	WHITE	1.3	POSITIVE
122	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	WHITE	1.3	POSITIVE
123	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	WHITE	1.2	POSITIVE
124	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	WHITE	1.1	POSITIVE
125	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	WHITE	1.0	POSITIVE
126	EXTERIOR	1	-	KM 2.71 - 2.75	JOINT GUARDRAIL	METAL	WHITE	1.6	POSITIVE
127	EXTERIOR	1	-	KM 2.71 - 2.75	JOINT GUARDRAIL	METAL	WHITE	1.6	POSITIVE
128	EXTERIOR	1	-	KM 2.71 - 2.75	JOINT GUARDRAIL	METAL	WHITE	1.5	POSITIVE
129	EXTERIOR	1	-	KM 2.71 - 2.75	JOINT GUARDRAIL	METAL	WHITE	1.4	POSITIVE
130	EXTERIOR	1	-	KM 2.71 - 2.75	JOINT GUARDRAIL	METAL	WHITE	1.3	POSITIVE
131	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	WHITE	<1.0	NEGATIVE
132	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	WHITE	<1.0	NEGATIVE
133	EXTERIOR	1	-	KM 2.71 - 2.75	BASE GUARDRAIL	CONCRETE	YELLOW	<1.0	NEGATIVE
-	CALIBRATION	-	-	-	-	-	-	0.20	
-	CALIBRATION	-	-	-	-	-	-	0.80	
-	CALIBRATION	-	-	-	-	-	-	1.00	

ATTACHMENT 4

PGC-010 CERTIFICATION (NO PRESENCE OF LBP FOR
LIMITED SEGMENTS PR-512)





**CERTIFICACION DE NO PRESENCIA DE PINTURA CON BASE DE PLOMO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

PGC- _____
PARA USO OFICIAL

Yo, Angel A. Burgos, mayor de edad, casado, y vecino de Gurabo, Puerto Rico
(Inspector o Evaluador de Riesgos) (Estado Civil) (Municipio)

Dirección Postal: P.O. Box 366457, San Juan PR 00936-6457
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 994-2044 Oficina (787) 420-0220
Fax (787) 293-5774

Certifico que:

1. Estoy certificado por la Junta de Calidad Ambiental como (Inspector / Evaluador de Riesgos) con Número de Certificación 1200-0419-LI-017 la cual se encuentra vigente.
2. La estructura "kilómetros 0.00 a 0.59; 0.66 a 1.25; 1.31 a 2.03; 2.09 a 2.27; 2.33 a 2.70; 2.76 a 4.5" localizada en la PR-512, Juana Díaz, P.R., la cual será objeto de una demolición se encuentra libre de pintura con base de plomo.
3. La información antes indicada es cierta y correcta.
4. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
5. Para que así conste, firmo la presente certificación en San Juan de Puerto Rico, (Municipio) hoy día 21 de febrero de 2020.

Firma del Inspector o Evaluador de Riesgos (en original)



Nota : Deberá someter evidencia de la tarjeta o certificado provista por la JCA.



NAT-F121771-2

**PR Environmental Quality Board
Lead-based Paint Inspector and Company Accreditations**





GOBIERNO DE PUERTO RICO
JUNTA DE CALIDAD AMBIENTAL

25 de febrero de 2019

Sra. Norma I. Torres

Presidente
Nortol Environmental & Occupational Safety, Inc.
P.O. Box 366457
San Juan P.R. 00936.


Estimada señora Torres:

CERTIFICACIÓN DE EMPRESAS

Luego de haber evaluado la solicitud radicada por usted, para la certificación de la empresa **Nortol Environmental & Occupational Safety, Inc.**, para realizar actividades de mitigación de pintura con base de plomo se encontró que la misma cumple con los requisitos establecidos en el Capítulo V, del *Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo*. A esta empresa se le otorgó el número de certificación **5550-0219-LF-007** y su fecha de vigencia es desde el **5 de marzo de 2019** hasta el **4 de marzo de 2020**.

Cualquier duda con respecto, favor comunicarse con la Sra. Magaly Ríos López al teléfono 787-767-8181, extensión 3478.

Cordialmente,


José Roque Juliá
Jefe
División de Desperdicios Tóxicos



ATTACHMENT 5
LBP INSPECTOR'S, COMPANY AND
XRF PCS QUALIFICATIONS





NAT-F121771-2

**PR Environmental Quality Board
Lead-based Paint Inspector and Company Accreditations**



Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make: *Heuresis*
Models: *Model Pb200i*
Source: *⁵⁷Co, 5 mCi (nominal – new source)*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm ² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading})/6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm ²)	Mean Reading Time (seconds)	Standard Deviation (seconds)
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
> 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.



**CERTIFICACION DE NO PRESENCIA DE PINTURA CON BASE DE PLOMO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

PGC-_____
PARA USO OFICIAL

Yo, Norma I. Torres, mayor de edad, soltera, y vecino de San Juan, Puerto Rico
(Inspector o Evaluador de Riesgos) (Estado Civil) (Municipio)

Dirección Postal: P.O. Box 366457, San Juan PR 00936-6457
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 761-5527 Oficina (787) 240-2040
Fax (787) 293-5774

Certifico que:

1. Estoy certificado por la Junta de Calidad Ambiental como (Inspector / Evaluador de Riesgos) con Número de Certificación 3253-1218-LI-003, la cual se encuentra vigente.
2. La estructura "Hurricane Maria Recovery Efforts - Signing and Guardrails Improvements Project" localizada en segmentos identificados de las carreteras PR-359-Yauco, PR-128-Yauco, PR-535-Juana Díaz, PR-551-Juana Díaz, PR-132-Guayanilla/Peñuelas/Ponce (parcial), PR-552-Juana Díaz and PR-149-Ciales/Orocovis/Villalba/Juana Díaz, P.R., la cual será objeto de una demolición se encuentra libre de pintura con base de plomo.
3. La información antes indicada es cierta y correcta.
4. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
5. Para que así conste, firmo la presente certificación en San Juan de Puerto Rico, (Municipio) hoy día 22 de noviembre de 2019.

Firma del Inspector o Evaluador de Riesgos (en original)



Nota : Deberá someter evidencia de la tarjeta o certificado provista por la JCA.

Esta certificación excluye los kilómetros 20.24 al 20.27 de la PR-132 donde existe un "guardrail" positivo a pintura con base de plomo.



NAT-F121771-2

**PR Environmental Quality Board
 Lead-based Paint Inspector and Company Accreditations**





NAT-F121771-2

**PR Environmental Quality Board
Lead-based Paint Inspector and Company Accreditations**





GOBIERNO DE PUERTO RICO
JUNTA DE CALIDAD AMBIENTAL

25 de febrero de 2019

Sra. Norma I. Torres

Presidente
Nortol Environmental & Occupational Safety, Inc.
P.O. Box 366457
San Juan P.R. 00936.


Estimada señora Torres:

CERTIFICACIÓN DE EMPRESAS

Luego de haber evaluado la solicitud radicada por usted, para la certificación de la empresa **Nortol Environmental & Occupational Safety, Inc.**, para realizar actividades de mitigación de pintura con base de plomo se encontró que la misma cumple con los requisitos establecidos en el Capítulo V, del *Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo*. A esta empresa se le otorgó el número de certificación **5550-0219-LF-007** y su fecha de vigencia es desde el **5 de marzo de 2019** hasta el **4 de marzo de 2020**.

Cualquier duda con respecto, favor comunicarse con la Sra. Magaly Ríos López al teléfono 787-767-8181, extensión 3478.

Cordialmente,


José Roque Juliá
Jefe
División de Desperdicios Tóxicos

