COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS
NORTHERN MARIANAS HOUSING CORPORATION

PUBLIC NOTICE

This Notice is paid by NMHC with HUD funds.

NOTICE OF FINDING OF NO SIGNIFICANT IMPACT
AND NOTICE OF INTENT TO REQUEST A RELEASE OF FUNDS
07/13/2021

Government of the Commonwealth of the Northern Mariana Islands
Northern Marianas Housing Corporation
Saipan, MP 96950 Tel: (670) 234-9447/6866

This notice shall satisfy the above-cited two separate but related procedural notification requirements.

REQUEST FOR RELEASE OF FUNDS

On or after July 28, 2021, the Government of the Commonwealth of the Northern Mariana Islands will submit a request to the U.S. Department of Housing and Urban Development, Washington D.C., for the release of Community Development Block Grant Disaster Recovery (CDBG-DR) Supplemental Appropriations for Disaster Relief Act, 2019 P.L. 116-20, enacted on January 27, 2020, announced via Federal Register Notice, to undertake the following activity and purposes in Saipan, Commonwealth of the Northern Mariana Islands:

Project/Activity Type	Purpose	Location	Total Project Cost
Replacement of existing/collapsed Vitrified Clay Pipe (VCP) sewer line with a new SDR 35 PVC pipe. The replacement of existing/collapsed VCP sewer line runs from Apengagh St. and Wischira Way (Oleai Village) as well as replacement of two sewer manholes.	Oleai Sewer Line Replacement Project	San Jose, Saipan	Approximately $469,000.00

FINDING OF NO SIGNIFICANT IMPACT

The Government of the Commonwealth of the Northern Mariana Islands has determined that the above-listed projects will have no significant impact on the human environment. Therefore, an Environmental Impact Statement under the National Environmental Policy Act of 1969 (NEPA) is not required. Additional project information is contained in the Environmental Review Record (ERR) and is ready for public viewing on the Northern Marianas Housing Corporation (NMHC) website at www.nmhcgov.net or www.cnmi-cdbgdr.com; or you may visit the on file at the NMHC Central Office in Garapan, Saipan or NMHC CDBG-DR Office in Beach Road Chalan Laulau, Saipan during regular work hours, Monday through Friday except CNMI Holidays, from 7:30 A.M. to 4:30 P.M.

PUBLIC COMMENTS

Any individual, group or agency disagreeing with this determination or wishing to comment on the project may submit written comments to the Northern Marianas Housing Corporation. You may submit comments from the following options: Via mail to P.O. Box 500514, Saipan, MP 96950; Direct delivery to the central office in Garapan, Saipan or drop-box located in front of the building; and via email at nmhc@nmhc.gov.mp. All comments received by **July 28, 2021, 4:30 p.m.,** will be considered by the Government of the Commonwealth of the Northern Mariana Islands prior to authorizing submission of a request for release of funds. Commentors should specify which part of this Notice they are addressing.

RELEASE OF FUNDS

The Government of the Commonwealth of the Northern Mariana Islands certifies to the U. S. Department of Housing and Urban Development (HUD), Washington D.C. that the Government of the Commonwealth of the Northern Mariana Islands and Governor Ralph DLG. Torres consent to accept the jurisdiction of the Federal Courts if an action is brought to enforce responsibilities in relation to the environmental review process, and that these responsibilities have been satisfied. The U. S. Department of Housing and Urban Development (HUD), Washington D.C. acceptance of the certification satisfies its responsibilities under the National Environmental Policy Act of 1969 and related laws and authorities, and allows the Government of the Northern Mariana Islands to use Program Funds.

OBJECTION TO RELEASE OF FUNDS

The U. S. Department of Housing and Urban Development (HUD) Washington D.C. will accept objections to its release of funds and the Government of the Northern Mariana Islands certification for a period of **fifteen days** following anticipated submission date or its actual receipt of the request (whichever is later) only if it is on one of the following bases: (a) the certification was not executed by the Certifying Officer of the Government of the Northern Mariana Islands; (b) the Government of the Northern Mariana Islands has omitted a step or failed to make a decision or finding required by the U. S. Department of Housing and Urban Development regulations at 24 CFR Part 58; (c) the grant recipient has incurred cost not authorized by 24 CFR Part 58 before approval of the release of funds by the U. S. Department of Housing and Urban Development; or (d) another Federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality. Objections must be prepared and submitted in accordance with the required procedures of 24 CFR Part 58 and shall be addressed to Ms. Tennille Smith Parker, DRSI Division Director, HUD, via email at Tennille.S.Parker@hud.gov ; Tel: (202)402-4649. Potential objectors should contact the U.S. Department of Housing and Urban Development to verify the actual last day of the objection period.

/s/
Ralph DLG Torres
Governor, CNMI

U.S. Department of Housing and Urban Development
451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

espanol.hud.gov

Environmental Assessment
Determinations and Compliance Findings for HUD-assisted Projects
24 CFR Part 58

Project Information

Project Name: CUC Oleai Sewer Line Replacement Project

Responsible Entity: Northern Marianas Housing Corporation (NMHC)

Grant Recipient (if different than Responsible Entity):

State/Local Identifier:854856277

Preparer: Wilfred Villagomez, Project Supervisor

Certifying Officer Name and Title: Jesse S. Palacios, Corporate Director

Grant Recipient (if different than Responsible Entity):

Consultant (if applicable): None

Direct Comments to: Northern Marianas Housing Corporation, P.O. Box 500514, Saipan, MP 96950; Email: nmhc@nmhc.gov.mp; Fax: (670)234-9021

Project Location: Susupe Village, Saipan, MP 96950

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**

The existing sewer line (Vitrified Clay Pipe-VCP) currently has a collapse segment along Apengahg Avenue and Wischira Way that needs to be replaced. This collapse or damaged segment will expose the environment to potential sewer effluent and is susceptible to releasing pathogenic contaminates throughout the ground water lens. There is additional risk of further damage sewer line if this is allowed to continue over time. CUC Operations is temporarily using a pool pump with a by-pass line to continue to discharge sewage buildup in a blocked manhole to the next manhole.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

Currently, the existing sewer line is vitrified clay pipe (VCP) and almost 50 years old. The existing line serves approximately 54 residents and commercial lots that flows along Apengahg Avenue and Wischira Way to Lift Station A-7.

The proposed project includes replacement of the existing sewer line along Apengahg Avenue and Wischira Way (Oleai Village) with 12-inch PVC pipe of 393 lineal feet and 10-inch PVC pipe of 58 lineal feet, as well as replacement of two sewer manholes.

Existing Conditions and Trends [24 CFR 58.40(a)]:

This project aims to replace the existing VCP sewer line with a new SDR 35 PVC pipe and constructed to be more suitable and prevent future leaks to the line thereby reducing inflow/infiltration (I&I) on pipes that cause contamination. DPW is improving surface conditions to the roadway and drainage system to minimize damage in the event of future floods and typhoons.

Funding Information

Grant Number	HUD Program	Funding Amount
B-19-DV—69-001/002		$ 469,000.00

Estimated Total HUD Funded Amount: $ 469,000.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:

$ 469,000.00

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No ☐ ☒	The Commonwealth Ports Authority has determined the project site is free from the runway clear zones.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No ☐ ☒	The Coastal Resources Management has determined that the project potential effects to coastal resources are likely to be less than significant adverse effect to coastal resources, the project site is not partially or wholly situated in any of Department of Coastal Resource Management's designated Areas of Particular Concern (APCs) nor within close proximity to an environmentally sensitive area.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No ☐ ☒	The Department of Public Works has determined that the project is not located in the special flood hazard area.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No ☐ ☒	The Bureau of Environmental and Coastal Quality (BECQ) has concurred with the determination of the NMHC that there will be no impact on air quality for the project.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No ☐ ☒	The Coastal Resources Management has determined that the project potential effects to coastal resources are likely to be less than significant. *Contractors shall obtain the necessary permits prior to any construction activities*

Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☐ No ☒	The Bureau of Environmental and Coastal Quality (BECQ) has concurred with the determination of the NMHC that there are no suspected sites contaminated with toxic chemicals or radioactive materials.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	The Division of Fish and Wildlife (DFW) has determined that there is no record of special status species at the project site.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The Bureau of Environmental and Coastal Quality (BECQ) has concurred with the determination of the NMHC that there is no suspected sites contaminated with toxic chemicals or radioactive materials.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	The Natural Resources Conservation Service (NCRS) has determined that the project site is not located in protective Farmland area.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	The Department of Public Works has determined that the project is not located in the special flood hazard area.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☐ No ☒	The Historic Preservation Office (HPO) concurs with NMHC's findings of effect of No Adverse Effect on Historic Properties for this undertaking.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The Bureau of Environmental and Coastal Quality (BECQ) has concurred with the determination of the NMHC that the project will not involve development of noise sensitive uses. The project is not within a major roadway or rail road. *Contractors shall obtain the necessary permits prior to any construction activities*
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	There are no sole source aquifers located at the project site.

Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	The Coastal Resources Management (CRM) had determined that the project site is not partially or wholly situated in any of DCRM's designated Areas of Particular Concern (APCs) nor within close proximity to an environmentally sensitive area.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	There are no wild or scenic rivers located at the project site.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	The project will not cause any adverse impact to the environment. The project is to enhance and a safe livelihood.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.
(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	Pursuant to the zoning regulations the project activity is acceptable.

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The soil suitability of the proposed project is suitable for the project. The minimal impact since it does not involve digging or dredging. It replaces damaged buildings and other contents.
Hazards and Nuisances including Site Safety and Noise	2	The proposed project would involve minimal hazards and nuisances. Contractors obtaining permit must adhere to the permitting requirements such as construction safety and noise.
Energy Consumption	2	The construction activity may require little to no use of energy besides equipment that requires the use of fossil fuels and electric generator.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	No Adverse impact are anticipated from the project on employment and income within the project area.
Demographic Character Changes, Displacement	2	There are no character changes or displacement for this project. The project will mitigate the flooding issue at the project site.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	There is no adverse impact on educational and cultural facilities.
Commercial Facilities	2	There is no adverse impact on commercial facilities.
Health Care and Social Services	2	There is no adverse impact on Health Care and Soil Services facilities.
Solid Waste Disposal / Recycling	2	There is no adverse impact on Solid Waste Disposal and Recycling facilities.
Waste Water / Sanitary Sewers	2	There is no adverse impact on Waste Water sand Sanitary Sewer facilities.
Water Supply	2	There is no adverse impact on Water Supply facilities.
Public Safety - Police, Fire and Emergency Medical	2	There is no adverse impact on Public Safety Services.
Parks, Open Space and Recreation	2	There is no adverse impact on Parks, Open Space and Recreation facilities.

Cumulative Impact Analysis [24 CFR 58.32]:

Per consultation with all environmental permitting agencies there will be no adverse impact in the environment as the construction activities are minimal. The state laws and regulations require all construction contractors to obtain the necessary permits in order to commence any construction activities.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

None.

No Action Alternative [24 CFR 58.40(e)]:

The NMHC considers a no action alternative because the proposed project is a critical sewer distribution that collapse for many years and is a health hazard to the community. This project crosses over to an NMHC drainage and road repair that cannot proceed until this sewer project is repaired.

Summary of Findings and Conclusions:

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Transportation and Accessibility	2	There is no adverse impact on Transportation and Accessibility services.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	There is no adverse impact on the Unique Natural Features and Water Resources.
Vegetation, Wildlife	2	There is no adverse impact on Vegetation and Wildlife.
Other Factors	2	State laws and regulations requires all construction activities to go through a permit process.

Additional Studies Performed:

Field Inspection (Date and completed by):

July 6, 2021 by Wilfred Villagomez

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

1. Commonwealth Ports Authority (CPA)
2. Division of Coastal Resource Management (DCRM)
3. Bureau of Environmental and Coastal Quality (BECQ)
4. Division of Fish and Wildlife (DFW)
5. Department of Public Works (DPW)
6. Historic and Preservation Office (HPO)
7. Natural Resource Conservation Service (NRCS)
8. CNMI Zoning

List of Permits Obtained:

Selected contractor will be responsible to obtain the permits needed to commence the construction activities of the proposed project.

Public Outreach [24 CFR 50.23 & 58.43]:

The NMHC shall provide publish notice to the local newspaper outlets, NMHC website and social media outlet to review the completed environmental review and allow the public to make comments.

Law, Authority, or Factor	Mitigation Measure

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: _____ Date: 7/9/2021

Name/Title/Organization: Wilfred Villagomez, CDBG-DR Project Supervisor NMHC

Reviewer Signature: _____ Date: 7/12/21

Reviewed by: Jacob Muna, Office Manager/Procurement Officer, NMHC

Certifying Officer Signature: _____ Date: 7/12/21

Name/Title: Jesse S. Palacios, Corporate Director

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Commonwealth Ports Authority

Francisco C. Ada/Saipan International Airport
PO BOX 501055•SAIPAN•MP•96950
Phone: (670) 237-6500/01 Fax: (670) 234-5962
E-Mail Address: cpa.admin@pticom.com Website: https://cnmiports.com

June 24, 2021

Mr. Jonathan I. Arriola
Project Manager
Northern Marianas Housing Corporation
PO Box 500514
Saipan, MP 96950

Dear Mr. Arriola:

Subject: Request for Determination of Effect
Apengahg Street, San Jose, Saipan

This is in reference to your letter dated June 22, 2021 requesting for Determination of Effect for the lot number referenced above. The project is the sewer line replacement by the Commonwealth Utilities Corporation (CUC).

After review of the lot locations, we found them to be free from the Runway Protection Zone. As such, the determination of effect is hereby given.

Should you have any questions or require additional information, please feel free to contact us.

Sincerely,

CHRISTOPHER S. TENORIO
Executive Director

cc: file

NMHC- CDBG-DR
RECEIVED
By: 2CA
Date: 06/30/21
Time: 4:14 PM

Commonwealth of the Northern Mariana Islands
OFFICE OF THE GOVERNOR
Bureau of Environmental and Coastal Quality
Division of Coastal Resources Management
P.O. Box 501304, Saipan, MP 96950
Tel: (670) 664-8300; Fax: (670) 664-8315
www.dcrmcnmi.org

Eli D. Cabrera
Administrator

Janice E. Castro
Director, DCRM

July 6, 2021

Ref. No. PRM21-213

Jonathan I. Arriola
Project Manager
Community Development Block Grant-
Disaster Recovery Division
Northern Marianas Housing Corporation
P.O. Box 500514
Saipan, MP 96950
Email: cnmi-cdbg-dr@nmhcgov.net

Re: Request for Determination of Effect

Dear Sir or Madam,

The Division of Coastal Resources Management (DCRM) is in receipt of your letter dated June 22, 2021 requesting for a determination of effect on the proposed sewer line replacement along Apengahg Street in San Jose, Saipan. As stated in your letter, the proposed repairs will be funded by the Department of Housing and Urban Development (HUD through the Community Development Block Grant – Disaster Recovery Program (CDBG-DR).

Based on the information provided, DCRM finds that the proposed project is not wholly situated within DCRM's designated Areas of Particular Concern (APCs) and may not be subject to a CRM permit. Therefore, the proposed action is not likely to cause significant adverse impact to coastal resources.

To the extent these projects will require issuance of a federal license or permit subject to federal consistency review, submission of a consistency determination certifying that issuance of the federal license or permit complies with the enforceable policies of the CNMI Coastal Management Program (CMP) may be necessary.

DCRM does not anticipate that these projects will cause significant public controversy and believes that the public and other agencies will be supportive of these activities. However, given that the projects are or will be federally funded, a One-Start permit from the Division of Environmental Quality (DEQ) will be required. This application will enable the DEQ, DCRM, the Division of Fish and Wildlife (DFW), and the Historic Preservation Office (HPO) to review your project proposals more thoroughly. Moreover, as these projects will be duly permitted by relevant CNMI agencies, DCRM anticipates that these projects will not conflict with any CNMI environmental, conservation, or land use laws and regulations.

We look forward to continue coordination as NMHC plans and seeks permits for these important improvement projects. Should you have any questions or need assistance, please contact our Permitting Section at (670) 664-8300.

Sincerely,

for JANICE E. CASTRO
Director
Division of Coastal Resources Management

NORTHERN MARIANAS HOUSING CORPORATION

Community Development Block Grant – Disaster Recovery (CDBG-DR) Division

P.O. BOX 500514, Saipan, MP 96950-0514

Email: cnmi-cdbg-dr@nmhcgov.net

Website: http://www.cnmi-cdbgdr.com

Tels: (670) 233-9447
233-9448
233-9449
233-9450
Fax: (670) 233-9452

RECEIVED
JUN 23 2021
BY:

June 22, 2021

Ms. Zabrina Shai
Acting Director
Division of Environmental Quality
P.O. Box 501304
Saipan, MP 96950

Dear Ms. Shai:

The Northern Marianas Housing Corporation (NMHC) is in the process of preparing the Environmental Assessment Statutory Checklist (24 CFR § 58.35) for the Commonwealth Utilities Corporation (CUC) Sewer Line Replacement project located at Apengahg Street, San Jose, Saipan.

The proposed project will be funded by the Department of Housing and Urban Development (HUD) through the Community Development Block Grant-Disaster Recovery Program (CDBG-DR).

Before we commence any **Rehabilitation activity**, we are required to obtain a certification from your office with respect to the following:

1. ***Explosive or Flammable Operations:***

That the project is located at an Acceptable Separation Distance (ASD) from any above-ground explosive or flammable fuels or chemicals containers according to "Siting of HUD-Assistance Projects Near Hazardous Facilities" (Appendix F, pp.51-52), ***OR*** the project will expose neither people nor building to such hazards.

2. ***Toxic/Hazardous/Radioactive, Material, Contamination, Chemical or Gases:***

That the project does not involve new development for habitation; ***OR*** the project involves new development for habitation, but is not located within one mile of an NPL ("Superfund") site, within ½ mile of a CERCLIS site, nor adjacent to any other known or suspected sited contaminated with toxic chemicals or radioactive source determines it does not pose a health hazard.

3. ***Environmental Justice:***

That the project site is suitable for its proposed use and the project won't be adversely affected by existing environmental conditions.

NORTHERN MARIANAS HOUSING CORPORATION

Community Development Block Grant – Disaster Recovery (CDBG-DR) Division

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233-9448
233-9449
233-9450
Fax: (670) 233-9452

4. ***Sole Source Aquifers:***

That the project is not located within an area designed by EPA as being supported by sole source aquifer, ***OR*** the project need not be referred to EPA for evaluation according to the HUD-EPA (Region IX) Sole Source Aquifer Memorandum of Understanding of 1990.

5. ***Air Quality:***

That the project is located within an "attainment" are, ***OR*** if within a "non-attainment" area, the project conforms with the EPA-approved State Implementation Plan (SIP), per contact with the State Air Quality Management District or Board.

6. ***Noise Abatement and Control:***

That the project does not involve development of noise sensitive uses, ***OR*** the project is not within line-of-sight of an arterial roadway or railroad, ***OR*** ambient noise level is 65 LDN (or CNEL) or less, based upon the HUD Noise Assessment Guidelines (NAG) study for calculating noise levels.

7. ***Wild and Scenic Rivers:***

That the project is not located within a mile of a listed Wild and Scenic River or that it will have no effects on the natural, free flowing or scenic qualities of a river.

8. ***Wetlands Protection:***

That the project does not involve new construction within or adjacent to wetlands, marshes, wet meadows, mud flats or natural ponds per field observation and maps issued by the USDI Fish & Wildlife Service or U.S. Corps of Engineers.

Should your office determine the presence of explosives, flammable, toxic, hazardous, or radioactive materials on or within a mile of the above lot, please include the appropriate mitigation disclosure and clearance documents.

Thank you for your assistance, and we look forward to receiving your earliest response. Should you have any questions regarding this request, please let us know.

Sincerely,

Jonathan H. Ariola
Project Manager
Northern Marianas Housing Corporation
Enclosures: Map of Location
Scope of Work

NORTHERN MARIANAS HOUSING CORPORATION

Community Development Block Grant – Disaster Recovery (CDBG-DR) Division

P.O. BOX 500514, Saipan, MP 96950-0514

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Division of Environmental Quality Concurrence:

Based on your requests above, the CNMI Division of Environmental Quality does not believe that this project will have a significant impact on the environment as defined by the National Environmental Policy Act. Your project may require permits from DEQ or other local or federal agencies, and your responsibility to obtain them is not obviated by this letter.

Zshai 6/30/2021

Zabrina Shai, Director **Date**
Division of Environmental Quality

Commonwealth of the Northern Mariana Islands
Division of Fish & Wildlife
Department of Lands and Natural Resources
Lower Base, P.O. Box 10007
Saipan, MP 96950

Telephone: 670-664-6000
Fax: 670-664-6060

July 9, 2021

Jonathan I. Arriola
Project Manager
Northern Marianas Housing Corporation
PO Box 500514
Saipan, MP 96950-0514

Subject: Information Request (#IR-21-25), NMHC Request for a Determination of Effect

Dear Mr. Arriola:

We have reviewed the Northern Marianas Housing Corporation's (NMHC) request for information from the Division of Fish and Wildlife (DFW) regarding potential environmental impacts from CUC sewer line replacement project located in San Jose, Saipan. We did not conduct on-the-ground inspections of the sites. Our response is based solely on the information you provided, our current knowledge, and professional experience. Our comments are as follows:

> Based on satellite imagery of the proposed project area, the site is located in a highly developed area and appears to have no habitat for T&E species. No effects to T&E are anticipated.

This letter is not a permit or approval of the proposed projects. Instead, the information that we provide may assist you in project planning, including information required to comply with the preparation of an Environmental Assessment Statutory Checklist.

If you have any questions, or I can be of further assistance, please don't hesitate to contact me at 664-6032.

Sincerely,

Frances G. Sablan
Assistant Wildlife Biologist, DFW

Cc: Manny M. Pangelinan, Director, DFW

Commonwealth of the Northern Mariana Islands
Office of the Secretary of Public Works
2nd floor Oleai Joeten Commercial Center
Saipan, MP 95950

June 28, 2021
PW21-0752

Jonathan I. Arriola
Project Manager
Northern Marianas Housing Corporation
Saipan, MP 96950

RE: Determination of Special Flood Hazard Area

Dear Mr. Arriola,

This letter is in response to your request received by our office on June 23, 2021 for the determination of Special Flood Hazard Area as part of a regulatory compliance checklist regarding a proposed Oleai Sewer Line Replacement Project to be located on Apengahg Street in Oleai, Saipan.

After a thorough review of the Flood Insurance Rate Map (FIRM Panel No. 6900000045C) and other source materials, this office has determined that the aforementioned lot **is NOT in the Special Flood Hazard Area**. See attached map.

Should you have any questions or concerns, please do not hesitate to contact Mr. Edwin Tmarsel, Flood Administrator of our Building Safety Code Division at the telephone number 234-2726.

Sincerely,

JAMES A. ADA
Secretary of Public Works

cc: Building Safety Code Division

National Flood Hazard Layer FIRMette

FEMA

145°42'20"E 15°10'19"N

145°42'57"E 15°9'44"N

0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/24/2021 at 11:58 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Commonwealth of the Northern Mariana Islands
Division of Historic Preservation
Department of Community & Cultural Affairs
Buildings A-15 and A-16 Cactus St. Garapan
Caller Box 10007
Saipan, MP 96950

TEL: 664-2120-25
FAX: 664-2139

July 1, 2021

Serial: 34533
File: 6.7.21.28

Jonathan I. Arriola
Project Manager
Northern Marianas Housing Corporation
P.O. Box 500514
Saipan, MP 96950

RE: Section 106 Comment on Northern Marianas Housing Corporation's CDBG-DR's proposed the proposed Tinian Carolinas 0.5 Million Gallons Water Tank Replacement project, Carolinas Heights, Tinian

Dear Mr. Arriola,

Thank you for contacting the Historic Preservation Office in regards to Section 106 consultation for the above subject project. HPO has reviewed the documentation you have provided, and concurs with NMHC's finding of **No Adverse Effect** determination.

However, if the particulars of the project should be altered to include other areas not yet designated, then we ask please to give our office an opportunity to review and consult about potential impacts in those currently unforeseen areas.

If there are any further questions or comments, please feel free to reach out to HPO at (670) 664-2120.

Sincerely,

John D. Palacios
Acting State Historic Preservation Officer

NORTHERN MARIANAS HOUSING CORPORATION

Community Development Block Grant – Disaster Recovery (CDBG-DR) Division

P.O. BOX 500514, Saipan, MP 96950-0514

Email: cnmi-cdbg-dr@nmhcgov.net

Website: http://www.cnmi-cdbgdr.com

Tels: (670) 233-9447
233-9448
233-9449
233-9450
Fax: (670) 233-9452

June 22, 2021

Ms. Pamela Sablan
District Conservationist
Natural Resource Conservation Service
P.O. Box 5082-CHRB
Saipan, MP 96950

Re: Request for a Determination of Effect CUC sewer line replacement, Apengahg Street, San Jose.

Dear Ms. Sablan,

The Northern Marianas Housing Corporation (NMHC) is in the process of preparing the Environmental Assessment Statutory Checklist (24 CFR § 58.35) for the Commonwealth Utilities Corporation (CUC) Sewer Line Replacement project located at Apengahg Street, San Jose, Saipan.

The proposed project will be funded by the Department of Housing and Urban Development (HUD) through the Community Development Block Grant-Disaster Recovery Program (CDBG-DR). In order for our office to complete the Environmental Review, an Environmental Assessment Statutory Checklist (24 CFR § 58.35) must be completed. We kindly request a Determination of Effect based on HUD requirement on the Farmland Protection Policy Act of 1981, particularly sections 1504 (b) and 1541; 7 CFR Part 658.

If you have any questions or concerns, please do not hesitate to contact myself at drprojectmanager@nmhcgov.net or Mr. Wilfred Villagomez at projectsupervisio@nmhcgov.net or at the numbers listed above.

Sincerely,

Jonathan A. Arriola
Project Manager

RECEIVED
SP 06/23/21

Enclosures: Map of Location
Scope of Work

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request
Name of Project Oleai Sewer Line Replacement Project	Federal Agency Involved NMHC-HUD-CDBG-DR
Proposed Land Use Sewer Line Replacement	County and State San Jose Village, Saipan
PART II *(To be completed by NRCS)*	Date Request Received By NRCS ~~6/22/2021~~ 6/23/2021 — Person Completing Form: S. TAKAI

Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)*	YES ☐ NO ☒	Acres Irrigated	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres: %	Amount of Farmland As Defined in FPPA Acres: %	
Name of Land Evaluation System Used	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS	

PART III *(To be completed by Federal Agency)*	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	N/A			
B. Total Acres To Be Converted Indirectly				
C. Total Acres In Site				
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide Important or Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)				

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	Maximum Points	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)				
2. Perimeter In Non-urban Use	(10)				
3. Percent Of Site Being Farmed	(20)				
4. Protection Provided By State and Local Government	(20)				
5. Distance From Urban Built-up Area	(15)				
6. Distance To Urban Support Services	(15)				
7. Size Of Present Farm Unit Compared To Average	(10)				
8. Creation Of Non-farmable Farmland	(10)				
9. Availability Of Farm Support Services	(5)				
10. On-Farm Investments	(20)				
11. Effects Of Conversion On Farm Support Services	(10)				
12. Compatibility With Existing Agricultural Use	(10)				
TOTAL SITE ASSESSMENT POINTS	160	0	0	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	0	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	0	0	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	0	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? YES ☐ NO ☐

Reason For Selection:

Name of Federal agency representative completing this form: PAMELA M. CAGLAN, DISTRICT CONSERVATIONIST — Date: 28 JUN 2021

(See Instructions on reverse side)

Form AD-1006 (03-02)

Prime and Unique Farmlands Map

USDA-NRCS

Map Prepared by Pamela M. Sablan, District Conservationist - 06/28/2021

Response to Categorically Excluded Statutory Checklist

"Oleai Sewer Line Replacement Project - San Jose Village, Saipan"

500 250 0 500 1,000 Feet

Prepared with assistance from USDA-Natural Resources Conservation Service

Legend

Project Location

NORTHERN MARIANAS HOUSING CORPORATION

Community Development Block Grant – Disaster Recovery (CDBG-DR) Division

P.O. BOX 500514, Saipan, MP 96950-0514

Email: cnmi-cdbg-dr@nmhcgov.net

Website: http://www.cnmi-cdbgdr.com

Tels: (670) 233-9447
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Fax: (670) 233-9452

June 22, 2021

Ms. Pamela Sablan
District Conservationist
Natural Resource Conservation Service
P.O. Box 5082-CHRB
Saipan, MP 96950

Re: Request for a Determination of Effect CUC sewer line replacement, Apengahg Street, San Jose.

Dear Ms. Sablan,

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If you have any questions or concerns, please do not hesitate to contact myself at drprojectmanager@nmhcgov.net or Mr. Wilfred Villagomez at projectsupervisio@nmhcgov.net or at the numbers listed above.

Sincerely,

Jonathan A. Arriola
Project Manager

RECEIVED
SP 06/23/21

Enclosures: Map of Location
Scope of Work

U.S. Department of Agriculture

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Relative Value Of Farmland *(From Part V)*	100	0	0	0	0
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TOTAL POINTS ***(Total of above 2 lines)***	260	0	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? YES ☐ NO ☐

Reason For Selection:

Name of Federal agency representative completing this form: PAMELA M. CAGLAN, DISTRICT CONSERVATIONIST — Date: 28 JUN 2021

(See Instructions on reverse side)

Form AD-1006 (03-02)

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USDA-NRCS

Map Prepared by Pamela M. Sablan, District Conservationist - 06/28/2021

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"Oleai Sewer Line Replacement Project - San Jose Village, Saipan"

500 250 0 500 1,000 Feet

Prepared with assistance from USDA-Natural Resources Conservation Service

Legend

Project Location

NORTHERN MARIANAS HOUSING CORPORATION

Community Development Block Grant – Disaster Recovery (CDBG-DR) Division

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233-9449
233-9450
Fax: (670) 233-9452

June 22, 2021

Ms. Geralyn C. Delacruz
Zoning Administrator
Zoning Board
Caller Box 10007
Saipan, MP 96950

Re: Request for Zoning Certification, CUC sewer line replacement, Apengahg Street, San Jose.

Dear Ms. Delacruz,

The Northern Marianas Housing Corporation (NMHC) is in the process of preparing the Environmental Assessment Statutory Checklist (24 CFR § 58.35) for the Commonwealth Utilities Corporation (CUC) Sewer Line Replacement project located at Apengahg Street, San Jose, Saipan.

The proposed project will be funded by the Department of Housing and Urban Development (HUD) through the Community Development Block Grant-Disaster Recovery Program (CDBG-DR). NMHC is kindly requesting for your concurrence in certifying that the project is acceptable based on the Zoning Law. This concurrence will not constitute as approval for a permit.

If you have any questions or concerns, please do not hesitate to contact myself at drprojectmanager@nmhcgov.net or Mr. Wilfred Villagomez at projectsupervisio@nmhcgov.net or at the numbers listed above.

Sincerely,

RECEIVED
DATE: 6/23/21
Carlin Yamasa

Jonathan V. Arriola
Project Manager

Enclosures: Map of Location
Scope of Work

NORTHERN MARIANAS HOUSING CORPORATION

Community Development Block Grant – Disaster Recovery (CDBG-DR) Division

P.O. BOX 500514, Saipan, MP 96950-0514

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Fax: (670) 233-9452

(Zoning Use)

This certification is granted to the Northern Marianas Housing Corporation (NMHC) to proceed with their project based on Section 411 (e) ***(citation) of the Saipan Zoning Law.***

This certification will not constitute as an approval for a permit. The NMHC and/or Contractor must apply for a permit prior to any construction work. If the NMHC and/or Contractor fails to apply for a Zoning permit, the Zoning Office will issue a violation notice and impose fines for failure to abide by the Zoning Law.

Certified & Concurred by:

Geralyn Delacruz, Zoning Administrator

6/23/2021

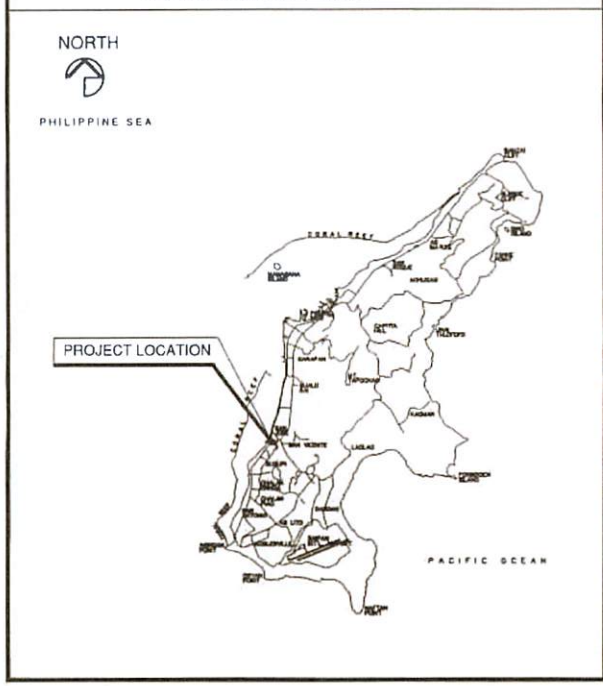
Date

RECEIVED
DATE

COMMONWEALTH UTILITIES CORPORATION
PROPOSED:
OLEAI SEWER LINE REPLACEMENT PROJECT

SAIPAN MP 96950
June 2021

LOCATION MAP



VICINITY MAP

INDEX OF DRAWINGS

SHEET NO.	DRAWING TITLE
	COVER SHEET
T-1	PROJECT TITLE, LOCATION AND VICINITY MAPS & INDEX DRAWINGS
G-1	GENERAL NOTES, SURVEY NOTES, SYMBOLS AND LEGENDS & ABBREVIATIONS
C-1	PLAN & PROFILE - SEWER LINE STA. 0+00 TO 4+60.07 (APENGAGH AVENUE & WISCHIRA WAY)
C-2	ROAD CONSTRUCTION TRAFFIC PLAN, AND MISCELLANEOUS DETAILS
C-3	SEWER MANHOLE DETAIL, MANHOLE FRAME AND COVER DETAIL, LADDER RUNG DETAIL & SMH TOP COVER ADJUSTMENT DETAIL
C-4	TEMPORARY EROSION CONTROL INSTALLATION, EROSION CONTROL NOTES/DETAILS, AND SEDIMENTATION BOX DETAIL

GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED: DF | DRAWN: DF
CHECKED: WY,LM | SUPERVISED: WY

PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT

DENNIS FORMALEJO — ENGINEER — DATE
LARRY T. MANACOP — ACTING CHIEF ENGINEER — DATE
GARY CAMACHO — EXECUTIVE DIRECTOR — DATE

CONTENT: PROJECT TITLE LOCATION & VICINITY MAPS AND INDEX DRAWINGS

SIGNATURE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

T-1 — CODE NO.
USING AGENCY: CUC
SCALE: AS SHOWN
DATE
SHEET 1 OF 5

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL CONDITIONS CONTAINED IN THESE PERMITS AND IN OBTAINING ANY OTHER PERMITS FOR THEIR STAGING AREAS OR ANY OTHERS THAT MAY BE REQUIRED
3. CONTRACTOR SHALL NOTIFY DPW HIGHWAY DIVISION AND DPS TRAFFIC SECTION 48 HOURS PRIOR TO START OF WORK
4. ALL PAVEMENT RESTORATION WORK SHALL BE PER DPW APPROVAL
5. DPW RECOMMENDS 7 DAYS OF CURE TIME FOR FLOWABLE FILL PRIOR TO PAVEMENT RESTORATION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR THE FLOWABLE FILL FROM VEHICULAR LOADING DURING THE PERIOD PRIOR TO PAVEMENT RESTORATION. LANE CLOSURE SHALL NOT BE USED AS AN OPTION DURING THE CURING PERIOD
6. CONTRACTOR IS RESPONSIBLE FOR ENSURING SAFETY OF PEDESTRIANS AND TRAFFIC IN THE VICINITY OF THE PROJECT SITE. SAFETY BARRIERS SHALL BE EMPLOYED WITH SIGNAGE ADEQUATE TO WARN PEDESTRIANS OF HAZARDS. CONTRACTOR SHALL MAINTAIN ACTIVE FLAGGER/SPOTTERS TO DIRECT BOTH VEHICULAR AND PEDESTRIAN TRAFFIC AROUND PROJECT SITE.
7. COORDINATION WITH BUSINESSES FOR PURPOSES OF ACCESS, PARKING, AND TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL CLOSELY AND CONTINUOUSLY COORDINATE WITH ADJACENT BUSINESSES PRIOR TO, DURING, AND AFTER WORK TO ENSURE DISRUPTION TO BUSINESSES IS MINIMIZED
8. ALL BARRICADES AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
9. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). HOWEVER, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
10. EXISTING STRUCTURES AND UTILITIES WITHIN THE EXTENT OF THE PROJECT SHOWN TO BE REMOVED SHALL BE COORDINATED WITH OTHER USING AGENCIES REGARDING THE RELOCATION AND REMOVAL OF THESE EXISTING STRUCTURES AND UTILITIES
11. THE CONTRACTOR SHALL VERIFY EXISTING GRADES BEFORE INITIATING CONSTRUCTION AND SHOULD ANY DISCREPANCIES EXIST BETWEEN ANY ACTUAL ELEVATIONS AND THESE PLANS THAT WILL RESULT IN A CLAIM BY THE CONTRACTOR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND/OR RELATED DOCUMENTS FOR REVIEW OF DISCREPANCIES
12. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW FACILITIES BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. PIPE SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, HE WILL BE SOLELY RESPONSIBLE FOR ANY EXTRA WORK OR MATERIAL REQUIRED IF MODIFICATIONS TO THE DESIGN ARE NECESSARY.
13. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ANY OTHER PUBLIC RIGHT OF WAY IN A CLEAN SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT AND DISPOSED PER CNMI LAW AND REGULATIONS. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION
14. ALL TREES AND PLANTS REMOVED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE CUC AT NO EXPENSE TO THE CUC.
15. EXISTING FACILITIES INCLUDING, BUT NOT LIMITED TO ROADS, WALLS, FENCES AND STRUCTURES DAMAGED BY CONTRACTOR'S OPERATIONS, SHALL BE RESTORED TO MATCH ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CONTRACTING OFFICER WITHOUT ADDITIONAL COST TO THE GOVERNMENT.
16. THE CONTRACTOR SHALL END PLACEMENT FOR ALL SURFACE CONCRETE WORK AT EITHER EXPANSION OR CONSTRUCTION JOINTS
17. CONNECTIONS TO EXISTING SEWERLINES SHALL BE PERFORMED PER DETAILS AND SPECS AND WITH MINIMUM INTERRUPTION OF SERVICE
18. CONTRACTOR SHALL MAINTAIN SERVICE TO ALL EXISTING SEWER SERVICE CONNECTIONS DURING CONSTRUCTION OF NEW IMPROVEMENTS, UNLESS APPROVED OTHERWISE BY THE CONTRACTING OFFICER, OR HIS ASSIGNEES
19. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ENGINEER, CNMI GOVERNMENT AND COMMONWEALTH UTILITIES CORPORATION HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF CNMI GOVERNMENT, THE COMMONWEALTH UTILITIES CORPORATION, OR DESIGN PROFESSIONAL
20. UNDERGROUND UTILITIES AND OTHER OBSTRUCTIONS ARE SHOWN TO THE EXTENT KNOWN. LOCATIONS ARE APPROXIMATE AND BASED ON SURFACE FEATURES SUCH AS CLEANOUTS, VALVE BOXES, OR MANHOLES. SOME UTILITIES ARE NOT SHOWN WHICH CONTRACTOR SHOULD ASSUME ARE PRESENT, INCLUDING TELECOM AND CABLE TELEVISION LINES
21. UNDERGROUND UTILITIES SHALL BE PROTECTED AND MUST BE REPAIRED IN ACCORDANCE WITH UTILITY OWNER SPECIFICATION IF DAMAGED. WATERLINE PROTECTION IS CRUCIAL: IN SEVERAL LOCATIONS WATERLINES ARE LESS THAN 10 FEET FROM SEWERLINES, AND ARE PARTICULARLY VULNERABLE TO DAMAGE. REPAIR OF WATERLINES DAMAGED BY CONTRACTOR MUST FOLLOW ALL CUC AND BECO STANDARDS AND REGULATIONS, TO INCLUDE BUT NOT BE LIMITED TO PROPER DISINFECTION FOLLOWING REPAIRS
22. SEWER SERVICE LATERAL LOCATIONS ARE APPROXIMATE AND NOT FULLY KNOWN. SOME LATERALS SHOWN MAY NOT EXIST, AND SOME LATERALS MAY EXIST THAT ARE NOT SHOWN. ALL EXISTING LATERALS ARE TO BE CONNECTED TO THE NEW SEWERLINES UNDER THIS PROJECT, AT THE UNIT PRICE STATED IN THE CONTRACT. LATERALS WHICH DO NOT EXIST WILL NOT BE CONNECTED, AND WILL NOT BE PAID
23. UNDERGROUND WATERLINE LOCATIONS ARE APPROXIMATE AND ARE BASED ON CUC PROVIDED AS-BUILT. CONTRACTOR SHALL FIELD VERIFY THAT UNDERGROUND WATERLINES ARE NOT WITHIN PROPOSED IMPROVEMENT LIMITS
24. ALL DIMENSIONS ARE IN FEET, UNLESS NOTED OTHERWISE

DEWATERING, BYPASS PUMPING, PIPE INSTALLATION AND EXCAVATION CONTROL:

1. DEWATERING OF EXCAVATION IS RESPONSIBILITY OF CONTRACTOR, INCLUDING PERMITTING OF DISCHARGE AND REMOVAL OF SEDIMENT FROM STORM DRAINS AND AFFECTED WATER BODIES FOLLOWING COMPLETION OF PROJECT. DEWATERING ACTIVITIES MUST BE IN ACCORDANCE WITH APPLICABLE CNMI AND FEDERAL REGULATIONS. MEASURES MUST BE TAKEN TO KEEP SEWAGE SEPARATED FROM DEWATERING DISCHARGE, THROUGH (FOR EXAMPLE) THE USE OF PLUGS AND BYPASS PUMPING. MEASURES MUST ALSO BE TAKEN TO REMOVE COARSE SEDIMENT FROM DEWATERING DISCHARGE, SUCH AS THROUGH THE USE OF SEDIMENTATION BASINS OR PORTABLE SEDIMENT TRAPS/BOXES (SEE DETAIL 4/11)
2. CONTROL OF EXCAVATION IS CONTRACTOR'S RESPONSIBILITY. EXCAVATIONS ARE IN SAND AND IN MANY CASES ARE BELOW THE WATER TABLE. USE OF TRENCH SHIELDS IS MANDATORY; ADDITIONAL MEASURES ARE DESIRABLE. CUC WILL NOT COMPENSATE FOR ADDITIONAL BACKFILL, FLOWABLE FILL, SUBBASE OR BASE COURSE MATERIAL BEYOND THE EXCAVATION DIMENSIONS GIVEN IN THESE PLANS.

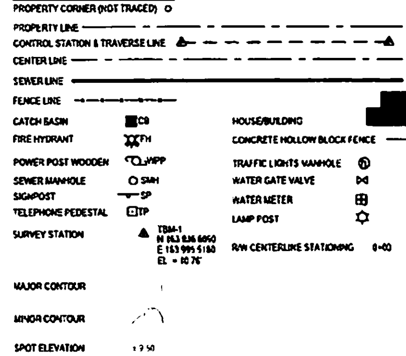
DEWATERING AND BY-PASS PUMPING CONTINUATION:

3. BYPASS PUMPING OF WASTEWATER BETWEEN MANHOLES IS RESPONSIBILITY OF CONTRACTOR DURING CONSTRUCTION
4. REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CEMENT PIPE MUST BE DONE IN ACCORDANCE WITH ALL APPLICABLE CNMI AND FEDERAL HEALTH AND SAFETY AND ENVIRONMENTAL PROTECTION LAWS AND REGULATIONS
5. REPLACE SEWER LINES STARTING FROM DOWNSTREAM END, PROGRESSING UPSTREAM. PIPE SHALL BE LAID AT UNIFORM GRADE IN A STRAIGHT LINE MATCHING EXISTING MANHOLE INVERT ELEVATIONS. CHANGES IN GRADE OR DIRECTION ARE NOT PERMITTED. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT IN FIELD USING PIPE LASER OR AUTO-LEVEL, AND PIPE SHALL NOT BE COVERED UNTIL CUC INSPECTOR HAS WITNESSED AND APPROVED VERIFICATION OF ALIGNMENT
6. SEWER PIPES SHALL BE COVERED AT THE ENDS TO PREVENT ENTRY OF BACKFILL AND FOREIGN MATERIALS INTO SEWER. FOLLOWING COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL CLEAN ALL SEGMENTS OF GRAVITY SEWER PIPE FROM NEW SEWER MANHOLE SECTION DOWNSTREAM TO UPSTREAM SEWER MANHOLE USING COMMERCIAL SEWER CLEANING SERVICE APPROVED BY CUC. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR COSTS FOR ANY DAMAGE TO CUC SEWER, WET WELL, AND PUMPING SYSTEM CAUSED BY CONSTRUCTION-RELATED DEBRIS

SURVEY NOTES

1. TOPOGRAPHIC AND AS-BUILT SURVEY WAS BASED ON THE DPW PROVIDED SURVEY.
2. HORIZONTAL AND VERTICAL SURVEY WERE BASED ON CONTROL STATIONS AT OLEAI TRIANGULATION STATION WITH COORDINATES (N=163 597 103; E=163 739 556).
3. CONTOUR LINES ARE DRAWN AT ONE FOOT (1') INTERVALS
4. ALL DISTANCES ARE IN FEET, UNLESS OTHERWISE NOTED.

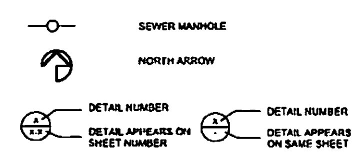
SYMBOLS & LEGENDS



ABBREVIATIONS

ACP	ASBESTOS CONCRETE PIPE	L	LENGTH
AVE	AVENUE	MIN	MINIMUM
℄	CENTERLINE	MPH	MILES PER HOUR
CLR	CLEARANCE	N	NORTHING
CONC	CONCRETE	(N)	NEW
CONT.	CONTINUOUS	NTS	NOT TO SCALE
CUC	COMMONWEALTH UTILITIES CORPORATION	O.C.	ON CENTER
DIA. D.	DIAMETER	P.L.	PROPERTY LINE
DPW	DEPARTMENT OF PUBLIC WORKS	P.O.B.	POINT OF BEGINNING
DR	DRIVE	PVC	POLYVINYL CHLORIDE
E	EASTING	REINF	REINFORCEMENT
(E)	EXISTING	REQ'D	REQUIRED
E.F.	EACH FACE	R/W	RIGHT-OF-WAY
EL. ELEV	ELEVATION	S	SLOPE
ESMH	EXISTING SEWER MANHOLE	SCH	SCHEDULE
E.W.	EACH WAY	SMH	SEWER MANHOLE
FG	FINISHED GRADE	STA	STATION
FF	FINISH FLOOR	ST.	STREET
FL	FLOWLINE	THK	THICK
FPS	FOOT PER SECOND	TYP.	TYPICAL
FS	FINISHED SURFACE	UNO	UNLESS NOTED OTHERWISE
FT	FEET	VIF	VERIFY IN FIELD
GEN	GENERAL	W	WATERLINE
H	HORIZONTAL	W/	WITH
IN	INCH		
INV	INVERT		

NEW SYMBOLS



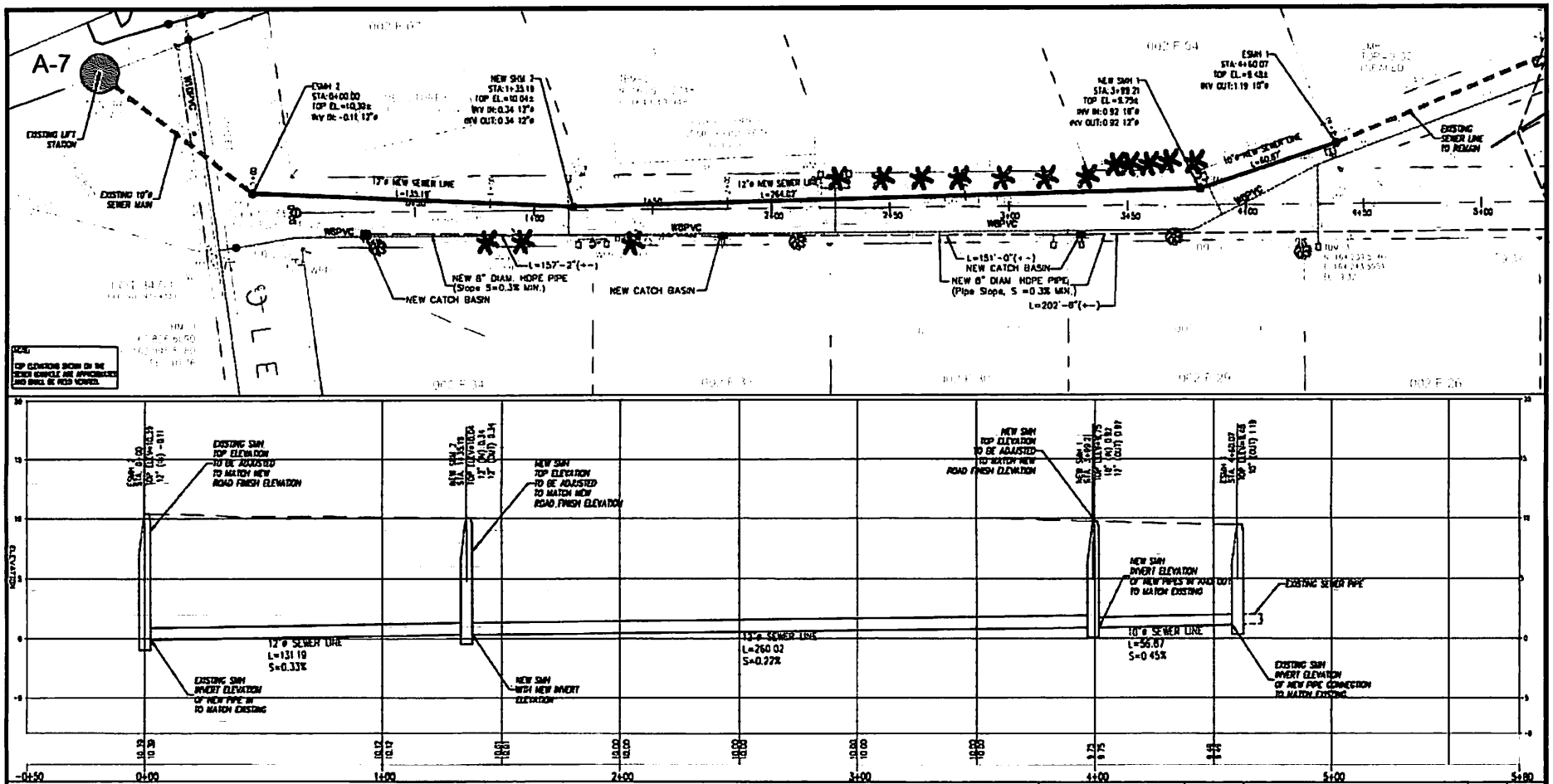
GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED CF	DRAWN CF	PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT
CHECKED	SUPERVISED	
DENNIS FORMALEJO — ENGINEER — DATE		CONTENT: GENERAL NOTES SURVEY NOTES SYMBOLS AND LEGENDS & ABBREVIATIONS
LARRY T. MANACOP — ACTING CHIEF ENGINEER — DATE		
GARY CAMACHO — EXECUTIVE DIRECTOR — DATE		G-1 (CODE NO) — USING AGENCY: CUC — SCALE: AS SHOWN — DATE — SHEET 1 OF 9

SIGNATURE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION



PLAN & PROFILE - SEWER LINE STA. 0+00 TO 4+60.07
(APENGAGH AVENUE & WISCHIRA WAY)

1 / C-1 SCALE 1":30'
VERT. SCALE 1":5'

GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED: LF | DRAWN:
CHECKED: WILLM | SUPERVISED: HK

PROJECT TITLE:
OLEAI SEWERLINE REPLACEMENT PROJECT

DENNIS FORMALEJO — ENGINEER — DATE
LARRY T. MANACOP — ACTING CHIEF ENGINEER — DATE
GARY CAMACHO — EXECUTIVE DIRECTOR — DATE

CONTENT:
PLAN & PROFILE - SEWER LINE STA 0+00 TO 4+60.07
(APENGAGH AVENUE AND WISCHIRA WAY)

C-1 — CODE NO. — MICRO AGENCY CUC — DATE
W.O.# 43 SHOWN — SHEET 1 OF 3

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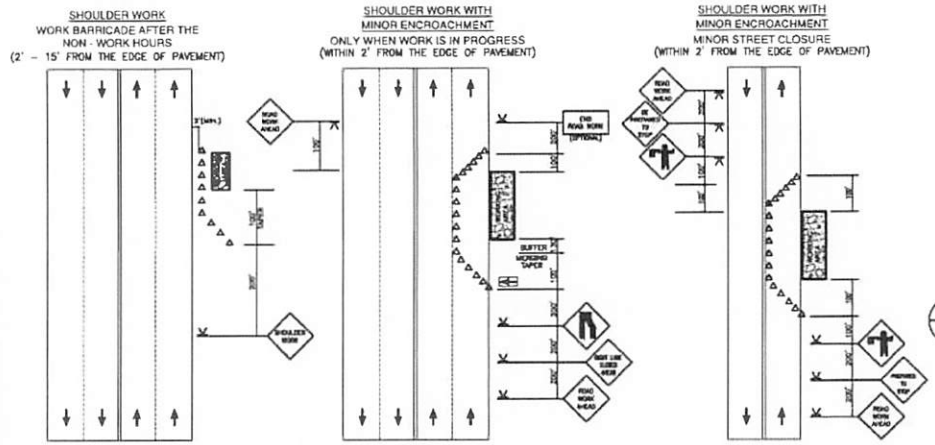
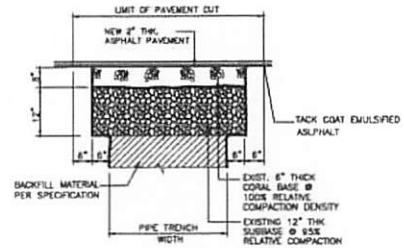
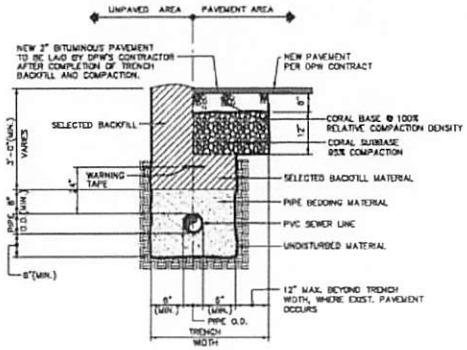


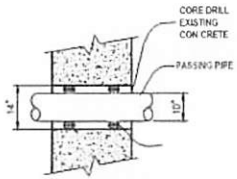
1 C-2 ROAD CONSTRUCTION TRAFFIC PLAN
NOT TO SCALE



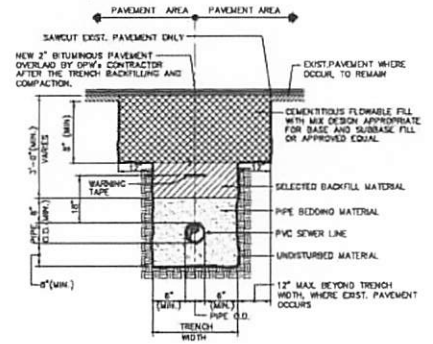
4 C-2 TYP. PAVEMENT CUT SECTION
NOT TO SCALE



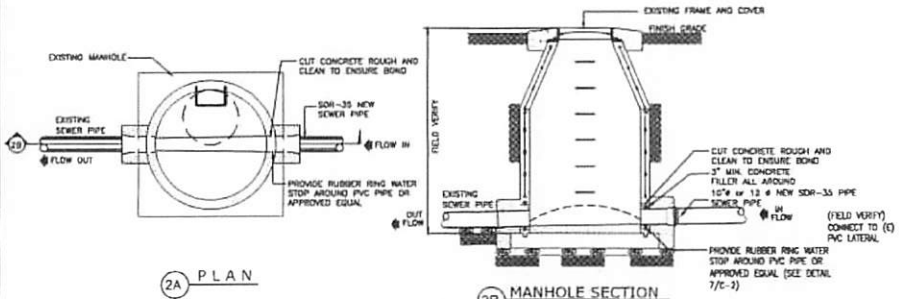
5 C-2 TYP. PIPE TRENCH DETAIL 1
NOT TO SCALE



7 C-2 PENETRATION THROUGH EXIST. CONC. WALL
SCALE NTS



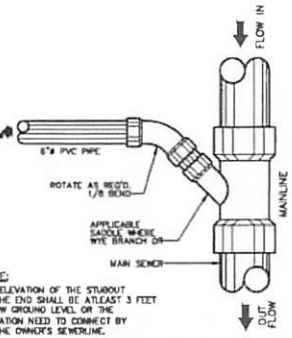
6 C-2 TYP. PIPE TRENCH DETAIL 2
NOT TO SCALE



2A PLAN

2B MANHOLE SECTION

2 C-2 DETAIL- CONNECTION OF NEW SEWER LINE TO EXISTING MANHOLE
NOT TO SCALE



NOTE:
THE ELEVATION OF THE STUBOUT AT THE END SHALL BE ATLEAST 3 FEET BELOW GROUND LEVEL OR THE ELEVATION NEED TO CONNECT BY TO THE OWNER'S SEWERLINE.

6"Ø LATERAL TO SEWER MAIN

3 C-2 CONNECTION DETAIL
NOT TO SCALE

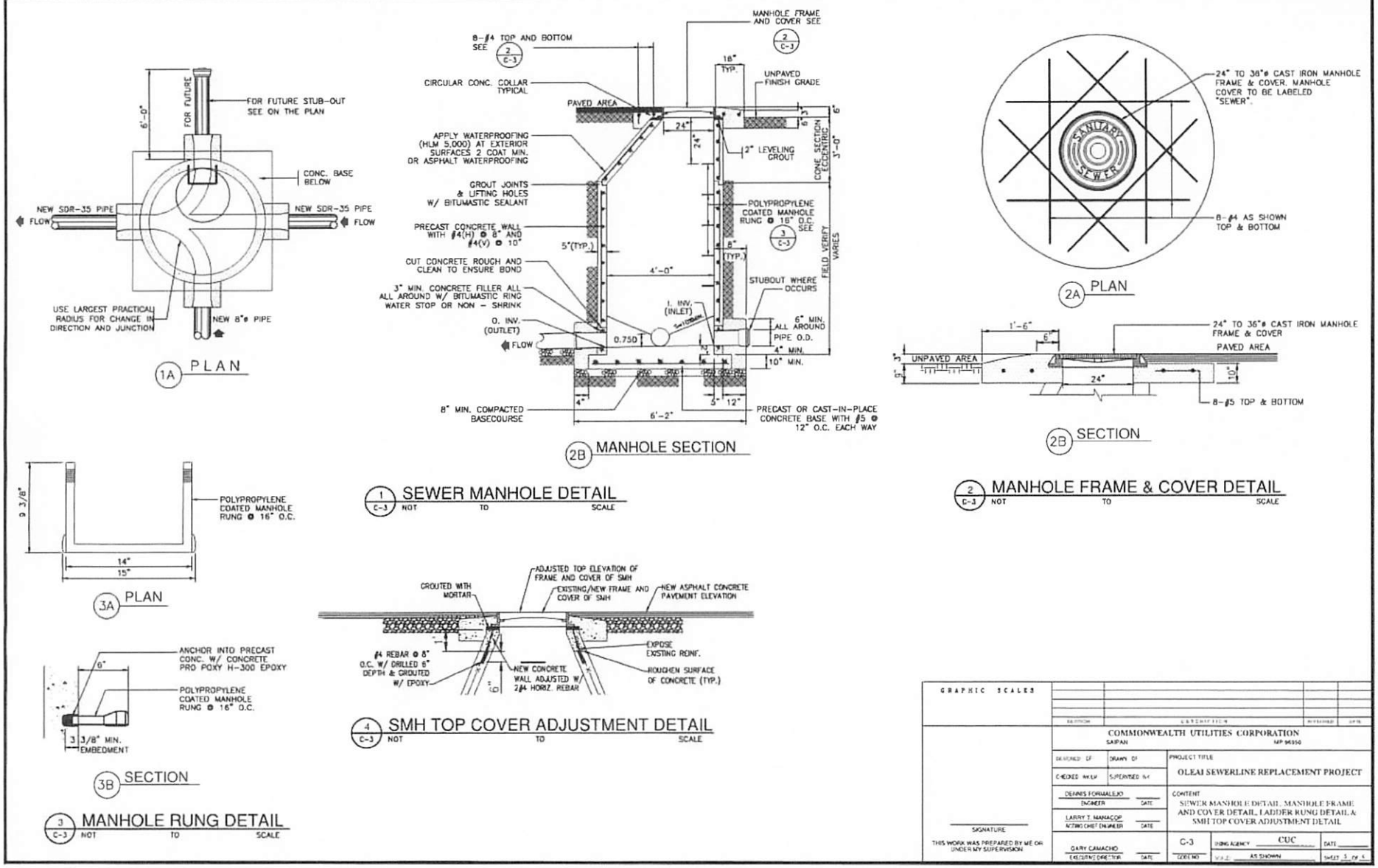
GRAPHIC SCALES

SIGNATURE	DESCRIPTION	APPROVED	DATE

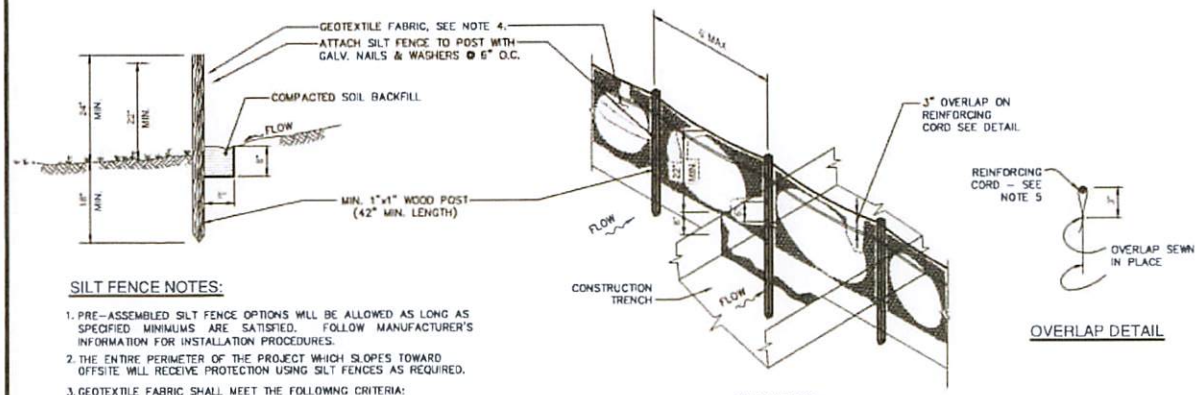
COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED JPDF	DRAWN JPDF	PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT
CHECKED WYLM	SUPERVISED WYL	
DENNIS FORMALEJO ENGINEER DATE		CONTENT: ROAD CONSTRUCTION TRAFFIC PLAN, AND MISCELLANEOUS DETAILS
LARRY T. MANACOP ACTING CHIEF ENGINEER DATE		
DARY CAMACHO EXECUTIVE DIRECTOR DATE		C-2 CODE NO. / CUC / AS SHOWN / DATE / SHEET 4 OF 5

SIGNATURE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION



FOR FUTURE STUB-OUT SEE ON THE PLAN
6'-0"
FOR FUTURE
CONC. BASE BELOW
NEW SDR-35 PIPE
FLOW
NEW SDR-35 PIPE
FLOW
USE LARGEST PRACTICAL RADIUS FOR CHANGE IN DIRECTION AND JUNCTION
NEW 8"ø PIPE
1A PLAN
MANHOLE FRAME AND COVER SEE 2 C-3
8-#4 TOP AND BOTTOM SEE 2 C-3
CIRCULAR CONC. COLLAR TYPICAL
PAVED AREA
18" TYP.
UNPAVED FINISH GRADE
APPLY WATERPROOFING (HLM 5,000) AT EXTERIOR SURFACES 2 COAT MIN. OR ASPHALT WATERPROOFING
24"
24"
2" LEVELING GROUT
CONE SECTION ECCENTRIC
3'-0"
GROUT JOINTS & LIFTING HOLES W/ BITUMASTIC SEALANT
POLYPROPYLENE COATED MANHOLE RUNG @ 16" O.C. SEE 3 C-3
PRECAST CONCRETE WALL WITH #4(H) @ 8" AND #4(V) @ 10"
5"(TYP.)
8" (TYP.)
FIELD VERIFY VARIES
CUT CONCRETE ROUGH AND CLEAN TO ENSURE BOND
4'-0"
STUBOUT WHERE OCCURS
3" MIN. CONCRETE FILLER ALL ALL AROUND W/ BITUMASTIC RING WATER STOP OR NON - SHRINK
I. INV. (INLET)
O. INV. (OUTLET)
FLOW
0.750
6" MIN. ALL AROUND PIPE O.D.
4" MIN.
10" MIN.
8" MIN. COMPACTED BASECOURSE
4"
6'-2"
5"
12"
PRECAST OR CAST-IN-PLACE CONCRETE BASE WITH #5 @ 12" O.C. EACH WAY
2B MANHOLE SECTION
1 C-3 SEWER MANHOLE DETAIL
NOT TO SCALE
24" TO 36"ø CAST IRON MANHOLE FRAME & COVER. MANHOLE COVER TO BE LABELED "SEWER".
SANITARY SEWER
8-#4 AS SHOWN TOP & BOTTOM
2A PLAN
1'-6"
6"
24" TO 36"ø CAST IRON MANHOLE FRAME & COVER
PAVED AREA
UNPAVED AREA
24"
10"
8-#5 TOP & BOTTOM
2B SECTION
2 C-3 MANHOLE FRAME & COVER DETAIL
NOT TO SCALE
9 3/8"
POLYPROPYLENE COATED MANHOLE RUNG @ 16" O.C.
14"
15"
3A PLAN
ANCHOR INTO PRECAST CONC. W/ CONCRETE PRO POXY H-300 EPOXY
6"
POLYPROPYLENE COATED MANHOLE RUNG @ 16" O.C.
3 3/8" MIN. EMBEDMENT
3B SECTION
3 C-3 MANHOLE RUNG DETAIL
NOT TO SCALE
ADJUSTED TOP ELEVATION OF FRAME AND COVER OF SMH
GROUTED WITH MORTAR
EXISTING/NEW FRAME AND COVER OF SMH
NEW ASPHALT CONCRETE PAVEMENT ELEVATION
#4 REBAR @ 8" O.C. W/ DRILLED 6" DEPTH & GROUTED W/ EPOXY
NEW CONCRETE WALL ADJUSTED W/ 2#4 HORIZ. REBAR
EXPOSE EXISTING REINF.
ROUGHEN SURFACE OF CONCRETE (TYP.)
4 C-3 SMH TOP COVER ADJUSTMENT DETAIL
NOT TO SCALE
GRAPHIC SCALES
SIGNATURE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
COMMONWEALTH UTILITIES CORPORATION
SAIPAN
MP 96950
DESIGNED DF
DRAWN DF
CHECKED
SUPERVISED
PROJECT TITLE
OLEAI SEWERLINE REPLACEMENT PROJECT
DENNIS FORMALEJO
ENGINEER
DATE
LARRY T. MANACOP
ACTING CHIEF ENGINEER
DATE
GARY CAMACHO
EXECUTIVE DIRECTOR
DATE
CONTENT
SEWER MANHOLE DETAIL, MANHOLE FRAME AND COVER DETAIL, LADDER RUNG DETAIL & SMH TOP COVER ADJUSTMENT DETAIL
C-3
CODE NO
FILING AGENCY
CUC
DATE
SCALE
AS SHOWN
SHEET 5 OF 5



STANDARD SILT FENCE

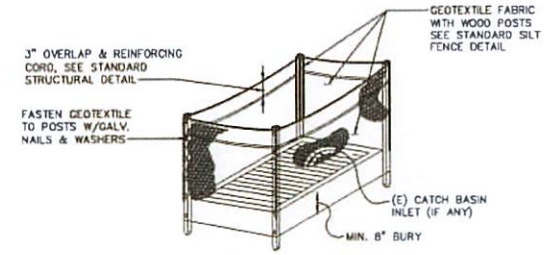
OVERLAP DETAIL

SILT FENCE NOTES:

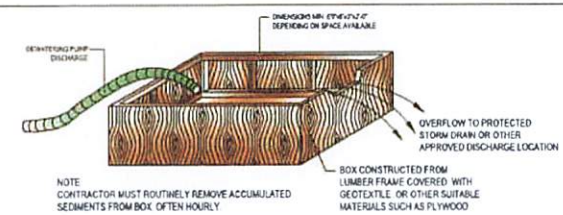
1. PRE-ASSEMBLED SILT FENCE OPTIONS WILL BE ALLOWED AS LONG AS SPECIFIED MINIMUMS ARE SATISFIED. FOLLOW MANUFACTURER'S INFORMATION FOR INSTALLATION PROCEDURES.
2. THE ENTIRE PERIMETER OF THE PROJECT WHICH SLOPES TOWARD OFFSITE WILL RECEIVE PROTECTION USING SILT FENCES AS REQUIRED.
3. GEOTEXTILE FABRIC SHALL MEET THE FOLLOWING CRITERIA:
   a) GRAB TENSILE STRENGTH 100 lbs. (min.)
   b) MULLEN BURST 250 psi (min.)
   c) EQUIVALENT OPENING SIZE SHALL BE SMALLER THAN OR EQUAL TO A STD. #80 SIEVE.
   d) MATERIAL SHALL BE SUITABLE FOR LONG TERM EXPOSURE TO SUNLIGHT.
4. REINFORCING CORD SHALL HAVE A MIN. TENSILE STRENGTH OF 500 lbs.

1 / C-4 TEMPORARY EROSION CONTROL INSTALLATION

N.T.S.



CATCH BASIN INLET PROTECTION DETAIL



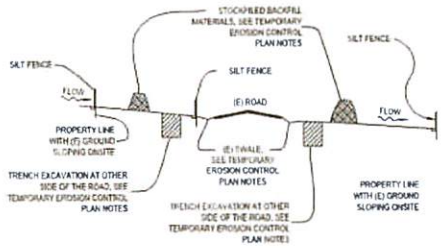
NOTE
CONTRACTOR MUST ROUTINELY REMOVE ACCUMULATED SEDIMENTS FROM BOX OFTEN HOURLY.

4 / - SEDIMENTATION BOX

SCALE: NTS

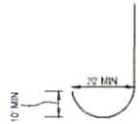
EROSION CONTROL NOTES:

1. Construct and maintain erosion controls on and around soil stockpiles to prevent soil loss. Silt fence should surround soil stockpiles, and stockpiles should be seeded with an appropriate grass species for erosion control if the stockpile is to remain for a period greater than 14 days.
2. Obtain permission from DEQ prior to opening material staging or stockpil areas. Do not locate soil stockpiles in sloped areas or areas that may be subject to concentrated flows of runoff during storm events, such as gutters, swales, natural drainageways, or erosion gullies.
3. All materials suitable for use as backfill be piled in an orderly manner a sufficient distance from the edge of trench to avoid overloading and to prevent sliding into the trench.
4. Provide appropiate inlet protection measures as per the 2006 CNMI Stormwater Management Manual and 2009 Erosion and Sediment Control Field Guide, around existing drainage inlets for protection from sedimentation.
5. Stockpiled materials shall be placed in areas where access to private driveways and through traffic on the public right-of-way are not impeded or obstructed.
6. Stockpiled and excavated materiles shall not be placed at any time in gutters or swales or any other areas that may be subject to concentrated flows of stormwater runoff.
7. Stockpiled and excavated materials shall be removed from the site on a daily basis (with the exception of long term stockpiles properly protected from erosion at a DEQ-approved staging area).
8. On the public rights-of-way, except with specific approval of the Owner's Representative, no more than 300 feet of open trench shall be excavated in advance of laying the pipe. Not more than 50 feet of excavated trench shall remain unbackfilled at the end of each day's work. The remainder of the trench shall be bakfilled, initially compacted and opened to traffic.
9. Backfilling compacting, and cleanup shall be accomplished as section of the pipe are installed. Traffic through the work area shall be impeded or obstructed as little as possible.
10. Install erosion and sediment control measure such as silt fence, as necessary to prevent excessive sediment load and run-off into the adjoining areas.
11. After installation, the adjoining ground surface and road shoulders shall be restored to their original grade and contours. In no case shall "berms" that may impede, channel, or otherwise alter the drainage patterns of runoff from nearby or properties be allowed to remain alongside the trench or road, unless as required as part of the approved erosion control plan.



ROAD & LOT SECTION

SLOPE STEEPNESS	MAXIMUM SPACE BETWEEN SILT FENCE OR J-HOOKS (ft)
2:1 (50%)	25
3:1 (33%)	50
4:1 (25%)	75
5:1 or flatter (20%)	100



J-HOOK DETAIL

3 / - TEMPORARY EROSION CONTROL J-HOOK INSTALLATION

SCALE: NTS

GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED BY: DRAWN BY:
CHECKED: SUPERVISED:
DENNIS FORMALEJO — ENGINEER — DATE
LARRY T. MANAGOP — ACTING CHIEF ENGINEER — DATE
GARY CAMACHO — EXECUTIVE DIRECTOR — DATE

PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT

CONTENT: TEMPORARY EROSION CONTROL INSTALLATION, EROSION CONTROL NOTES/DETAILS & SEDIMENTATION BOX DETAIL

CODE NO. C-4 — USING AGENCY: CUC — DATE: — SCALE: AS SHOWN — SHEET 3 OF 4

SIGNATURE

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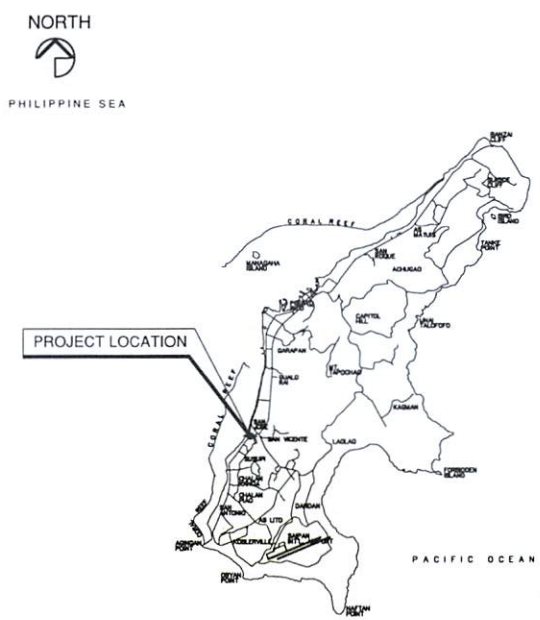
COMMONWEALTH UTILITIES CORPORATION
PROPOSED:
OLEAI SEWER LINE REPLACEMENT PROJECT

SAIPAN MP 96950
June 2021

LOCATION MAP



VICINITY MAP

INDEX OF DRAWINGS

SHEET NO.	DRAWING TITLE
	COVER SHEET
T-1	PROJECT TITLE, LOCATION AND VICINITY MAPS & INDEX DRAWINGS
G-1	GENERAL NOTES, SURVEY NOTES, SYMBOLS AND LEGENDS & ABBREVIATIONS
C-1	PLAN & PROFILE - SEWER LINE STA. 0+00 TO 4+60.07 (APENGAGH AVENUE & WISCHIRA WAY)
C-2	ROAD CONSTRUCTION TRAFFIC PLAN, AND MISCELLANEOUS DETAILS
C-3	SEWER MANHOLE DETAIL, MANHOLE FRAME AND COVER DETAIL, LADDER RUNG DETAIL & SMH TOP COVER ADJUSTMENT DETAIL
C-4	TEMPORARY EROSION CONTROL INSTALLATION, EROSION CONTROL NOTES/DETAILS, AND SEDIMENTATION BOX DETAIL

GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED: DF | DRAWN: DF | CHECKED: WK/LM | SUPERVISED: WK

PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT

DENNIS FORMALEJO, ENGINEER — DATE
LARRY T. MANACOP, ACTING CHIEF ENGINEER — DATE
GARY CAMACHO, EXECUTIVE DIRECTOR — DATE

CONTENT: PROJECT TITLE, LOCATION & VICINITY MAPS AND INDEX DRAWINGS

T-1 (CODE NO.) | USING AGENCY: CUC | DATE | SCALE: AS SHOWN | SHEET 1 OF 8

SIGNATURE

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GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL CONDITIONS CONTAINED IN THESE PERMITS AND IN OBTAINING ANY OTHER PERMITS FOR THEIR STAGING AREAS OR ANY OTHERS THAT MAY BE REQUIRED.
3. CONTRACTOR SHALL NOTIFY DPW HIGHWAY DIVISION AND DPS TRAFFIC SECTION 48 HOURS PRIOR TO START OF WORK.
4. ALL PAVEMENT RESTORATION WORK SHALL BE PER DPW APPROVAL.
5. DPW RECOMMENDS 7 DAYS OF CURE TIME FOR FLOWABLE FILL PRIOR TO PAVEMENT RESTORATION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR THE FLOWABLE FILL FROM VEHICULAR LOADING DURING THE PERIOD PRIOR TO PAVEMENT RESTORATION. LANE CLOSURE SHALL NOT BE USED AS AN OPTION DURING THE CURING PERIOD.
6. CONTRACTOR IS RESPONSIBLE FOR ENSURING SAFETY OF PEDESTRIANS AND TRAFFIC IN THE VICINITY OF THE PROJECT SITE. SAFETY BARRIERS SHALL BE EMPLOYED WITH SIGNAGE ADEQUATE TO WARN PEDESTRIANS OF HAZARDS. CONTRACTOR SHALL MAINTAIN ACTIVE FLAGGER/SPOTTERS TO DIRECT BOTH VEHICULAR AND PEDESTRIAN TRAFFIC AROUND PROJECT SITE.
7. COORDINATION WITH BUSINESSES FOR PURPOSES OF ACCESS, PARKING, AND TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL CLOSELY AND CONTINUOUSLY COORDINATE WITH ADJACENT BUSINESSES PRIOR TO, DURING, AND AFTER WORK TO ENSURE DISRUPTION TO BUSINESSES IS MINIMIZED.
8. ALL BARRICADES AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
9. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). HOWEVER, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
10. EXISTING STRUCTURES AND UTILITIES WITHIN THE EXTENT OF THE PROJECT SHOWN TO BE REMOVED SHALL BE COORDINATED WITH OTHER USING AGENCIES REGARDING THE RELOCATION AND REMOVAL OF THESE EXISTING STRUCTURES AND UTILITIES.
11. THE CONTRACTOR SHALL VERIFY EXISTING GRADES BEFORE INITIATING CONSTRUCTION AND SHOULD ANY DISCREPANCIES EXIST BETWEEN ANY ACTUAL ELEVATIONS AND THESE PLANS THAT WILL RESULT IN A CLAIM BY THE CONTRACTOR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND/OR RELATED DOCUMENTS FOR REVIEW OF DISCREPANCIES.
12. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW FACILITIES BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. PIPE SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, HE WILL BE SOLELY RESPONSIBLE FOR ANY EXTRA WORK OR MATERIAL REQUIRED IF MODIFICATIONS TO THE DESIGN ARE NECESSARY.
13. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ANY OTHER PUBLIC RIGHT OF WAY IN A CLEAN SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT AND DISPOSED PER CNMI LAW AND REGULATIONS. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
14. ALL TREES AND PLANTS REMOVED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE CUC AT NO EXPENSE TO THE CUC.
15. EXISTING FACILITIES INCLUDING, BUT NOT LIMITED TO ROADS, WALLS, FENCES AND STRUCTURES DAMAGED BY CONTRACTOR'S OPERATIONS, SHALL BE RESTORED TO MATCH ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CONTRACTING OFFICER WITHOUT ADDITIONAL COST TO THE GOVERNMENT.
16. THE CONTRACTOR SHALL END PLACEMENT FOR ALL SURFACE CONCRETE WORK AT EITHER EXPANSION OR CONSTRUCTION JOINTS.
17. CONNECTIONS TO EXISTING SEWERLINES SHALL BE PERFORMED PER DETAILS AND SPECS AND WITH MINIMUM INTERRUPTION OF SERVICE.
18. CONTRACTOR SHALL MAINTAIN SERVICE TO ALL EXISTING SEWER SERVICE CONNECTIONS DURING CONSTRUCTION OF NEW IMPROVEMENTS, UNLESS APPROVED OTHERWISE BY THE CONTRACTING OFFICER, OR HIS ASSIGNEES.
19. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ENGINEER, CNMI GOVERNMENT AND COMMONWEALTH UTILITIES CORPORATION HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF CNMI GOVERNMENT, THE COMMONWEALTH UTILITIES CORPORATION, OR DESIGN PROFESSIONAL.
20. UNDERGROUND UTILITIES AND OTHER OBSTRUCTIONS ARE SHOWN TO THE EXTENT KNOWN. LOCATIONS ARE APPROXIMATE AND BASED ON SURFACE FEATURES SUCH AS CLEANOUTS, VALVE BOXES, OR MANHOLES. SOME UTILITIES ARE NOT SHOWN WHICH CONTRACTOR SHOULD ASSUME ARE PRESENT, INCLUDING TELECOM AND CABLE TELEVISION LINES.
21. UNDERGROUND UTILITIES SHALL BE PROTECTED AND MUST BE REPAIRED IN ACCORDANCE WITH UTILITY OWNER SPECIFICATION IF DAMAGED. WATERLINE PROTECTION IS CRUCIAL: IN SEVERAL LOCATIONS WATERLINES ARE LESS THAN 10 FEET FROM SEWERLINES, AND ARE PARTICULARLY VULNERABLE TO DAMAGE. REPAIR OF WATERLINES DAMAGED BY CONTRACTOR MUST FOLLOW ALL CUC AND BECO STANDARDS AND REGULATIONS, TO INCLUDE BUT NOT BE LIMITED TO PROPER DISINFECTION FOLLOWING REPAIRS.
22. SEWER SERVICE LATERAL LOCATIONS ARE APPROXIMATE AND NOT FULLY KNOWN. SOME LATERALS SHOWN MAY NOT EXIST, AND SOME LATERALS MAY EXIST THAT ARE NOT SHOWN. ALL EXISTING LATERALS ARE TO BE CONNECTED TO THE NEW SEWERLINES UNDER THIS PROJECT, AT THE UNIT PRICE STATED IN THE CONTRACT. LATERALS WHICH DO NOT EXIST WILL NOT BE CONNECTED, AND WILL NOT BE PAID.
23. UNDERGROUND WATERLINE LOCATIONS ARE APPROXIMATE AND ARE BASED ON CUC PROVIDED AS-BUILT. CONTRACTOR SHALL FIELD VERIFY THAT UNDERGROUND WATERLINES ARE NOT WITHIN PROPOSED IMPROVEMENT LIMITS.
26. ALL DIMENSIONS ARE IN FEET, UNLESS NOTED OTHERWISE.

DEWATERING, BYPASS PUMPING, PIPE INSTALLATION AND EXCAVATION CONTROL:

1. DEWATERING OF EXCAVATION IS RESPONSIBILITY OF CONTRACTOR, INCLUDING PERMITTING OF DISCHARGE AND REMOVAL OF SEDIMENT FROM STORM DRAINS AND AFFECTED WATER BODIES FOLLOWING COMPLETION OF PROJECT. DEWATERING ACTIVITIES MUST BE IN ACCORDANCE WITH APPLICABLE CNMI AND FEDERAL REGULATIONS. MEASURES MUST BE TAKEN TO KEEP SEWAGE SEPARATED FROM DEWATERING DISCHARGE, THROUGH (FOR EXAMPLE) THE USE OF PLUGS AND BYPASS PUMPING. MEASURES MUST ALSO BE TAKEN TO REMOVE COARSE SEDIMENT FROM DEWATERING DISCHARGE, SUCH AS THROUGH THE USE OF SEDIMENTATION BASINS OR PORTABLE SEDIMENT TRAPS/BOXES (SEE DETAIL 4/11).
2. CONTROL OF EXCAVATION IS CONTRACTOR'S RESPONSIBILITY. EXCAVATIONS ARE IN SAND AND IN MANY CASES ARE BELOW THE WATER TABLE. USE OF TRENCH SHIELDS IS MANDATORY; ADDITIONAL MEASURES ARE DESIRABLE. CUC WILL NOT COMPENSATE FOR ADDITIONAL BACKFILL, FLOWABLE FILL, SUBBASE OR BASE COURSE MATERIAL BEYOND THE EXCAVATION DIMENSIONS GIVEN IN THESE PLANS.

DEWATERING AND BY-PASS PUMPING CONTINUATION:

3. BYPASS PUMPING OF WASTEWATER BETWEEN MANHOLES IS RESPONSIBILITY OF CONTRACTOR DURING CONSTRUCTION.
4. REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CEMENT PIPE MUST BE DONE IN ACCORDANCE WITH ALL APPLICABLE CNMI AND FEDERAL HEALTH AND SAFETY AND ENVIRONMENTAL PROTECTION LAWS AND REGULATIONS.
5. REPLACE SEWER LINES STARTING FROM DOWNSTREAM END, PROGRESSING UPSTREAM. PIPE SHALL BE LAID AT UNIFORM GRADE IN A STRAIGHT LINE MATCHING EXISTING MANHOLE INVERT ELEVATIONS. CHANGES IN GRADE OR DIRECTION ARE NOT PERMITTED. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT IN FIELD USING PIPE LASER OR AUTO-LEVEL, AND PIPE SHALL NOT BE COVERED UNTIL CUC INSPECTOR HAS WITNESSED AND APPROVED VERIFICATION OF ALIGNMENT.
6. SEWER PIPES SHALL BE COVERED AT THE ENDS TO PREVENT ENTRY OF BACKFILL AND FOREIGN MATERIALS INTO SEWER. FOLLOWING COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL CLEAN ALL SEGMENTS OF GRAVITY SEWER PIPE FROM NEW SEWER MANHOLE SECTION DOWNSTREAM TO UPSTREAM SEWER MANHOLE USING COMMERCIAL SEWER CLEANING SERVICE APPROVED BY CUC. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR COSTS FOR ANY DAMAGE TO CUC SEWER, WET WELL, AND PUMPING SYSTEM CAUSED BY CONSTRUCTION-RELATED DEBRIS.

SURVEY NOTES

1. TOPOGRAPHIC AND AS-BUILT SURVEY WAS BASED ON THE DPW PROVIDED SURVEY.
2. HORIZONTAL AND VERTICAL SURVEY WERE BASED ON CONTROL STATIONS AT OLEAI TRIANGULATION STATION WITH COORDINATES (N=163,597.103; E=163,739.556).
3. CONTOUR LINES ARE DRAWN AT ONE FOOT (1') INTERVALS.
4. ALL DISTANCES ARE IN FEET, UNLESS OTHERWISE NOTED.

SYMBOLS & LEGENDS

PROPERTY CORNER (NOT TRACED)
PROPERTY LINE
CONTROL STATION & TRAVERSE LINE
CENTER LINE
SEWER LINE
FENCE LINE
CATCH BASIN — CB
FIRE HYDRANT — FH
POWER POST WOODEN — PP
SEWER MANHOLE — SMH
SIGNPOST — SP
TELEPHONE PEDESTAL — TP
SURVEY STATION — TBM-1 N 163,836.6090 E 163,995.5160 EL. = 10.76'
MAJOR CONTOUR
MINOR CONTOUR
SPOT ELEVATION — x 9.50
HOUSE/BUILDING
CONCRETE HOLLOW BLOCK FENCE
TRAFFIC LIGHTS MANHOLE
WATER GATE VALVE
WATER METER
LAMP POST
R/W CENTERLINE STATIONING — 0+00

ABBREVIATIONS

ACP	ASBESTOS CONCRETE PIPE	L	LENGTH
AVE.	AVENUE	MIN	MINIMUM
℄	CENTERLINE	MPH	MILES PER HOUR
CLR	CLEARANCE	N	NORTHING
CONC	CONCRETE	(N)	NEW
CONT.	CONTINUOUS	NTS	NOT TO SCALE
CUC	COMMONWEALTH UTILITIES CORPORATION	O.C	ON CENTER
DIA. Ø	DIAMETER	P.L	PROPERTY LINE
DPW	DEPARTMENT OF PUBLIC WORKS	P.O.B	POINT OF BEGINNING
DR.	DRIVE	PVC	POLYVINYL CHLORIDE
E	EASTING	REINF	REINFORCEMENT
(E)	EXISTING	REQ'D	REQUIRED
E.F.	EACH FACE	R/W	RIGHT-OF-WAY
EL. ELEV	ELEVATION	S	SLOPE
ESMH	EXISTING SEWER MANHOLE	SCH	SCHEDULE
E.W.	EACH WAY	SMH	SEWER MANHOLE
FG	FINISHED GRADE	STA	STATION
FF	FINISH FLOOR	ST.	STREET
FL	FLOW LINE	THK	THICK
FPS	FOOT PER SECOND	TYP	TYPICAL
FS	FINISHED SURFACE	UNO	UNLESS NOTED OTHERWISE
FT	FEET	VIF	VERIFY IN FIELD
GEN	GENERAL	W	WATERLINE
H	HORIZONTAL	W/	WITH
IN	INCH		
INV	INVERT		

NEW SYMBOLS

SEWER MANHOLE
NORTH ARROW
DETAIL NUMBER — DETAIL APPEARS ON SHEET NUMBER
DETAIL NUMBER — DETAIL APPEARS ON SAME SHEET

GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED DF — DRAWN DF — CHECKED WKLM — SUPERVISED WK

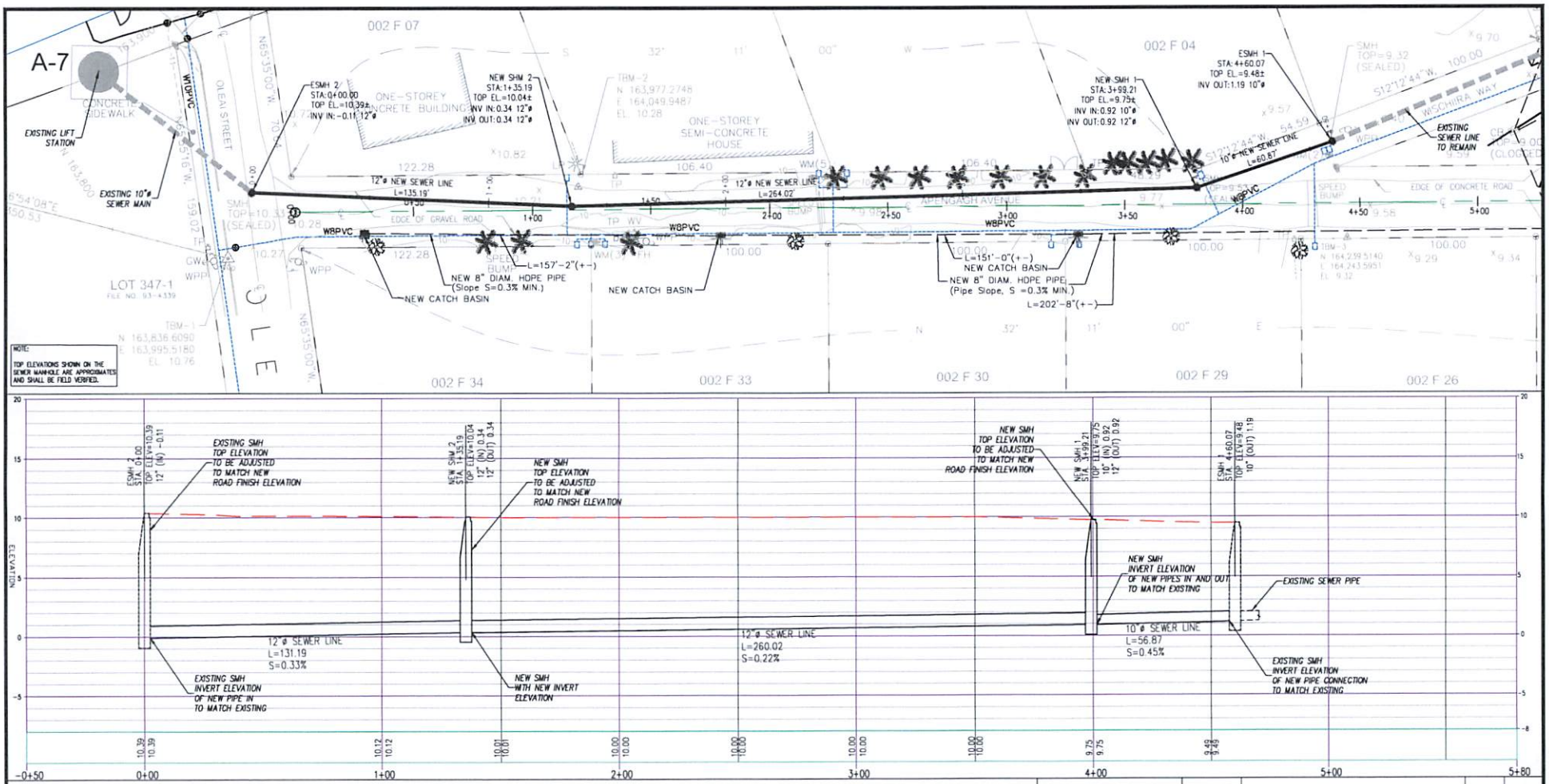
PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT

DENNIS FORMALEJO, ENGINEER — DATE
LARRY T. MANAGOP, ACTING CHIEF ENGINEER — DATE
GARY CAMACHO, EXECUTIVE DIRECTOR — DATE

CONTENT: GENERAL NOTES, SURVEY NOTES, SYMBOLS AND LEGENDS & ABBREVIATIONS

SIGNATURE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

CODE NO. G-1 — USING AGENCY: CUC — DATE — SCALE: AS SHOWN — SHEET 2 OF 9



PLAN & PROFILE - SEWER LINE STA. 0+00 TO 4+60.07 (APENGAGH AVENUE & WISCHIRA WAY)

1 / C-1

SCALE 1" : 30'

VERT. SCALE 1" : 5'

GRAPHIC SCALES

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COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

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CHECKED: WK/LM | SUPERVISED: WK

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GARY CAMACHO — EXECUTIVE DIRECTOR — DATE

CONTENT: PLAN & PROFILE - SEWER LINE STA. 0+00 TO 4+60.07 (APENGAGH AVENUE AND WISCHIRA WAY)

C-1 — CODE NO. | USING AGENCY: CUC | DATE | SCALE: AS SHOWN | SHEET 3 OF 6

SIGNATURE

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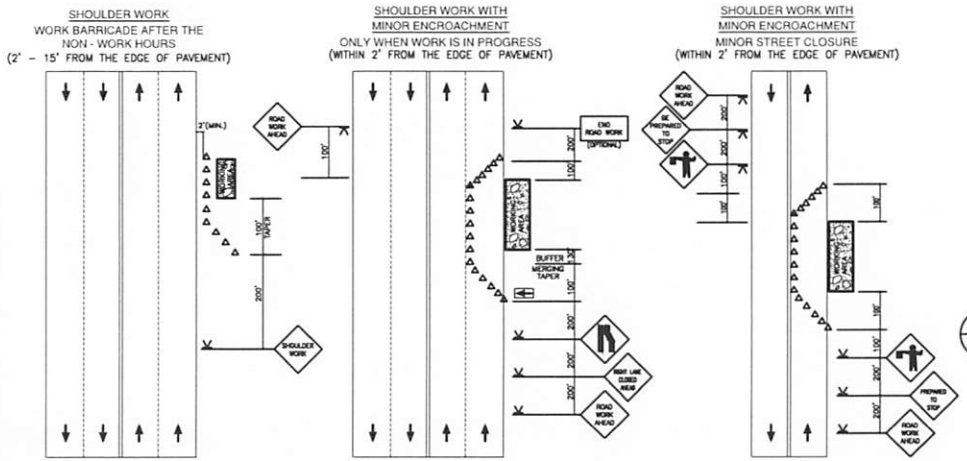
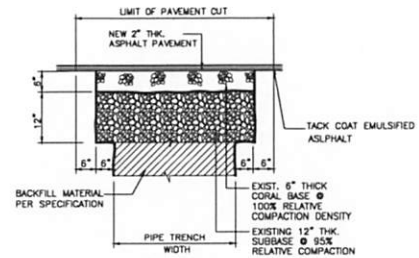
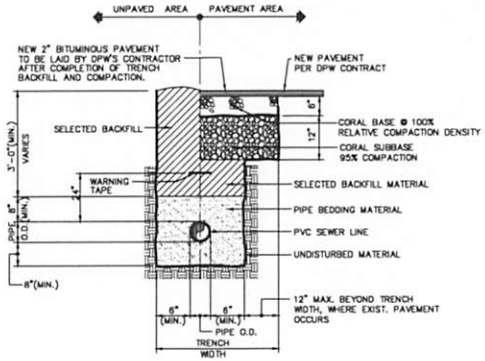


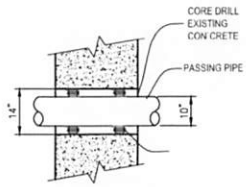
1 C-2 ROAD CONSTRUCTION TRAFFIC PLAN
NOT TO SCALE



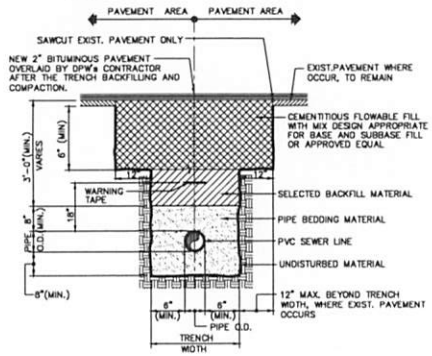
4 C-2 TYP. PAVEMENT CUT SECTION
NOT TO SCALE



5 C-2 TYP. PIPE TRENCH DETAIL 1
NOT TO SCALE



7 C-2 PENETRATION THROUGH EXIST. CONC. WALL
SCALE: NTS



6 C-2 TYP. PIPE TRENCH DETAIL 2
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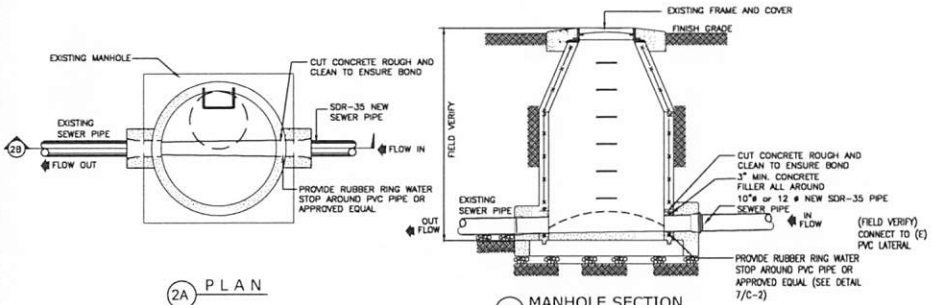
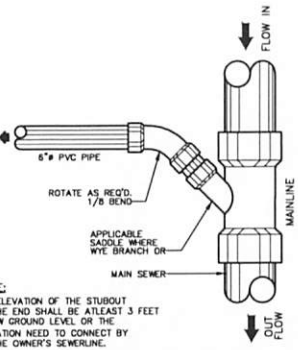


2A PLAN

2B MANHOLE SECTION

2 C-2 DETAIL- CONNECTION OF NEW SEWER LINE TO EXISTING MANHOLE
NOT TO SCALE



NOTE:
THE ELEVATION OF THE STUBOUT AT THE END SHALL BE ATLEAST 3 FEET BELOW GROUND LEVEL OR THE ELEVATION NEED TO CONNECT BY TO THE OWNER'S SEWERLINE.

6"Ø LATERAL TO SEWER MAIN

3 C-2 CONNECTION DETAIL
NOT TO SCALE

GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED: JPDF DRAWN: JPDF
CHECKED: WK/LM SUPERVISED: WK
DENNIS FORMALEJO — ENGINEER — DATE
LARRY T. MANACOP — ACTING CHIEF ENGINEER — DATE
GARY CAMACHO — EXECUTIVE DIRECTOR — DATE

PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT

CONTENT: ROAD CONSTRUCTION TRAFFIC PLAN, AND MISCELLANEOUS DETAILS

SIGNATURE
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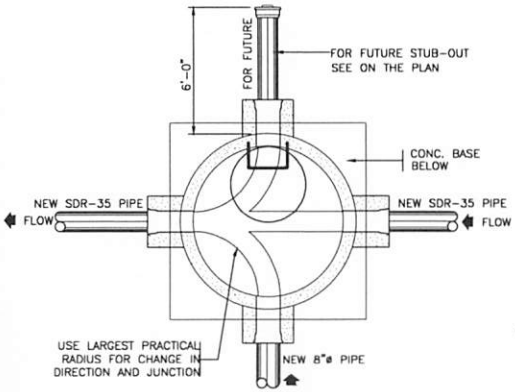
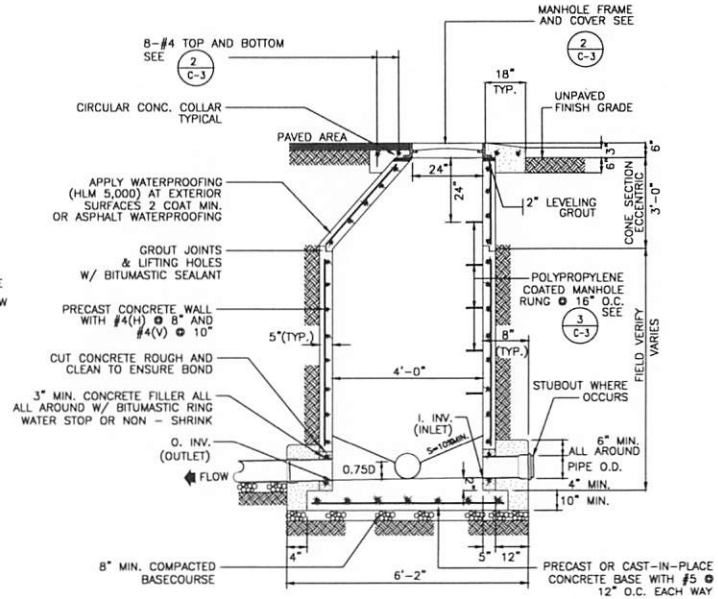
C-2 — CODE NO. — USING AGENCY: CUC — DATE
SCALE: AS SHOWN — SHEET 4 OF 5

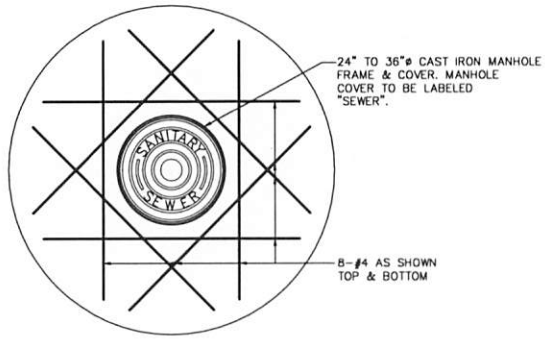


1A PLAN

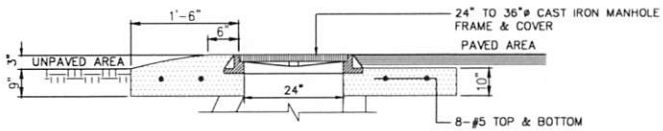


2B MANHOLE SECTION

1 C-3 SEWER MANHOLE DETAIL
NOT TO SCALE

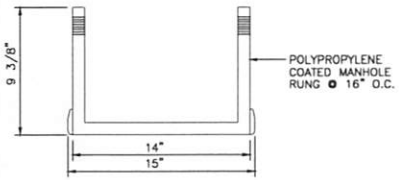


2A PLAN

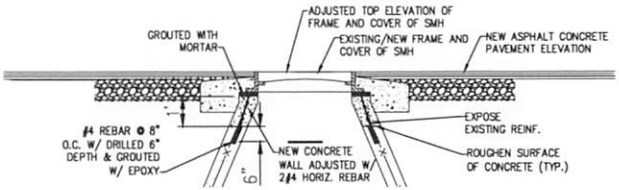


2B SECTION

2 C-3 MANHOLE FRAME & COVER DETAIL
NOT TO SCALE



3A PLAN



4 C-3 SMH TOP COVER ADJUSTMENT DETAIL
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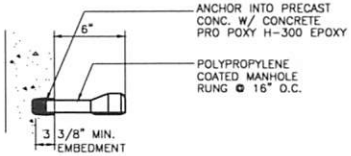

3B SECTION

3 C-3 MANHOLE RUNG DETAIL
NOT TO SCALE

GRAPHIC SCALES

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SAIPAN MP 96950

DESIGNED: DF | DRAWN: DF
CHECKED: WK/LM | SUPERVISED: WK

PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT

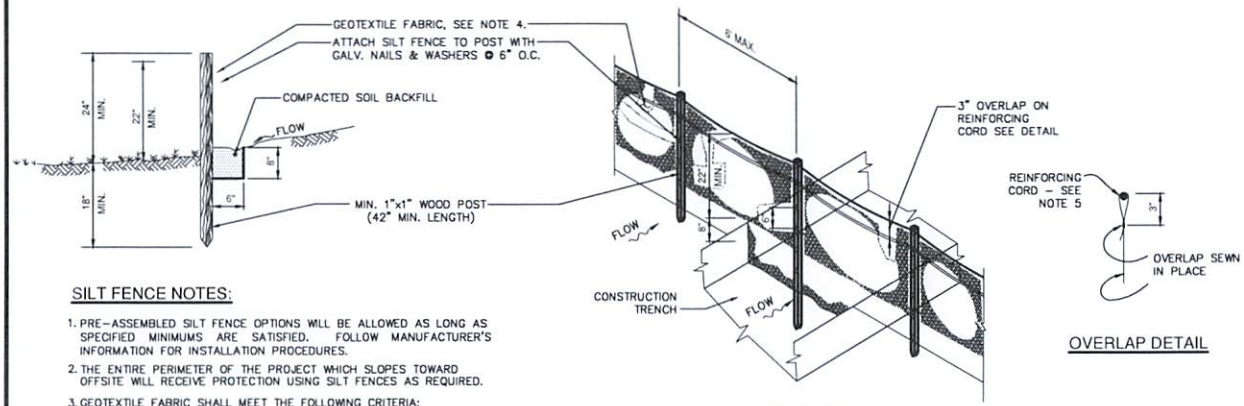
DENNIS FORMALEJO, ENGINEER, DATE
LARRY T. MANACOP, ACTING CHIEF ENGINEER, DATE
GARY CAMACHO, EXECUTIVE DIRECTOR, DATE

CONTENT: SEWER MANHOLE DETAIL, MANHOLE FRAME AND COVER DETAIL, LADDER RUNG DETAIL & SMH TOP COVER ADJUSTMENT DETAIL

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

C-3 | USING AGENCY: CUC | DATE
CODE NO. | SCALE: AS SHOWN | SHEET 3 OF 3



OVERLAP DETAIL

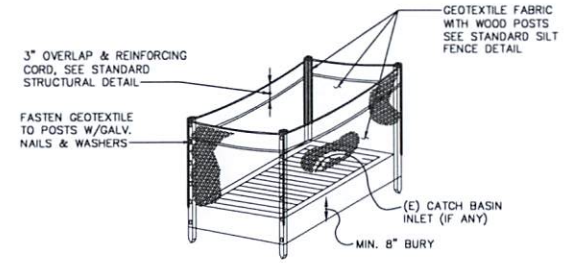
STANDARD SILT FENCE

SILT FENCE NOTES:

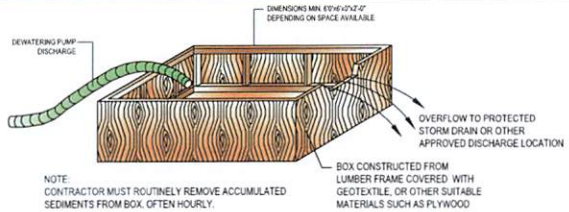
1. PRE-ASSEMBLED SILT FENCE OPTIONS WILL BE ALLOWED AS LONG AS SPECIFIED MINIMUMS ARE SATISFIED. FOLLOW MANUFACTURER'S INFORMATION FOR INSTALLATION PROCEDURES.
2. THE ENTIRE PERIMETER OF THE PROJECT WHICH SLOPES TOWARD OFFSITE WILL RECEIVE PROTECTION USING SILT FENCES AS REQUIRED.
3. GEOTEXTILE FABRIC SHALL MEET THE FOLLOWING CRITERIA:
   a) GRAB TENSILE STRENGTH 100 lbs. (min.)
   b) MULLEN BURST 250 psi (min.)
   c) EQUIVALENT OPENING SIZE SHALL BE SMALLER THAN OR EQUAL TO A STD. #80 SIEVE.
   d) MATERIAL SHALL BE SUITABLE FOR LONG TERM EXPOSURE TO SUNLIGHT.
4. REINFORCING CORD SHALL HAVE A MIN. TENSILE STRENGTH OF 500 lbs.

1 / C-4 TEMPORARY EROSION CONTROL INSTALLATION

N.T.S.



CATCH BASIN INLET PROTECTION DETAIL



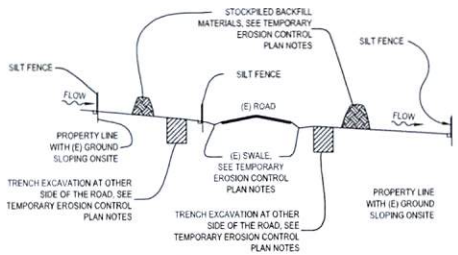
NOTE:
CONTRACTOR MUST ROUTINELY REMOVE ACCUMULATED SEDIMENTS FROM BOX. OFTEN HOURLY.

4 / - SEDIMENTATION BOX

SCALE: NTS

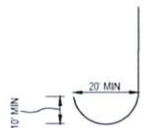
EROSION CONTROL NOTES:

1. Construct and maintain erosion controls on and around soil stokpiles to prevent soil loss. Silt fence should surround soil stockpiles, and stockpiles should be seeded with an appropriate grass species for erosion control if the stockpile is to remain for a period greater than 14 days.
2. Obtain permission from DEQ prior to opening material staging or stockpil areas. Do not locate soil stockpiles in sloped areas or areas that may be subject to concentrated flows of runoff during storm events, such as gutters, swales, natural drainageways, or erosion gullies.
3. All materials suitable for use as backfill be plaied in an orderly manner a sufficient distance from the edge of trench to avoid overloading and to prevent sliding into the trench.
4. Provide appropiate inlet protection measures as per the 2006 CNMI Stormwater Management Manual and 2009 Erosion and Sediment Control Field Guide, around existing drainage inlets for protection from sedimentation.
5. Stockpiled materials shall be placed in areas where access to private driveways and through traffic on the public right-of-way are not impeded or obstructed.
6. Stockpiled and excavated materilas shall not be placed at any time in gutters or swales or any other areas that may be subject to concentrated flows of stormwater runoff.
7. Stockpiled and excavated materials shall be removed from the site on a daily basis (with the exception of long term stockpiles properly protected from erosion at a DEQ-approved staging area).
8. On the public rights-of-way, except with specific approval of the Owner's Representative, no more than 300 feet of open trench shall be excavated in advance of laying the pipe. Not more than 50 feet of excavated trench shall remain unbackfilled at the end of each day's work. The remainder of the trench shall be bakfilled, initially compacted and opened to traffic.
9. Backfilling compacting, and cleanup shall be accomplished as section of the pipe are installed. Traffic through the work area shall be impeded or obstructed as little as possible.
10. Install erosion and sediment control measure such as silt fence, as necessary to prevent excessive sediment load and run-off into the adjoining areas.
11. After installation, the adjoining ground surface and road shoulders shall be restored to their original grade and contours. In no case shall "berms" that may impede, channel, or otherwide alter the drainage patterns of runoff from nearby or properties be allowed to remain alongside the trench or road, unless as required as part of the approved erosion control plan.



ROAD & LOT SECTION

SLOPE STEEPNESS	MAXIMUM SPACE BETWEEN SILT FENCE OR J-HOOKS (ft)
2:1 (50%)	25
3:1 (33%)	50
4:1 (25%)	75
5:1 or flatter (20%)	100



J-HOOK DETAIL

3 / - TEMPORARY EROSION CONTROL J-HOOK INSTALLATION

SCALE: NTS

GRAPHIC SCALES

REVISION	DESCRIPTION	APPROVED	DATE

COMMONWEALTH UTILITIES CORPORATION
SAIPAN MP 96950

DESIGNED: DF DRAWN: DF
CHECKED: WK,LM SUPERVISED: WK

PROJECT TITLE: OLEAI SEWERLINE REPLACEMENT PROJECT

DENNIS FORMALEJO — ENGINEER — DATE
LARRY T. MANACOP — ACTING CHIEF ENGINEER — DATE
GARY CAMACHO — EXECUTIVE DIRECTOR — DATE

CONTENT: TEMPORARY EROSION CONTROL INSTALLATION, EROSION CONTROL NOTES/DETAILS & SEDIMENTATION BOX DETAIL

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

C-4 CODE NO. USING AGENCY: CUC DATE
SCALE: AS SHOWN SHEET 5 OF 8