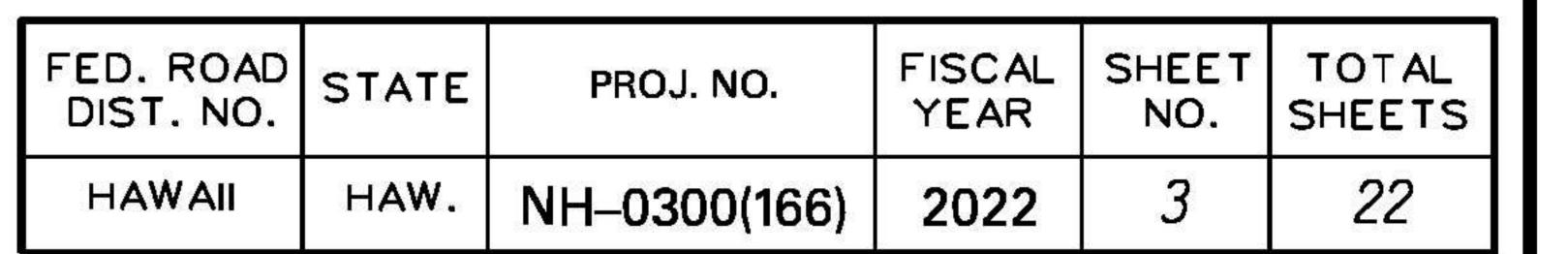
GENERAL NOTES

- . The scope of work for this project includes the removal and replacement of new guardrails and guardrail end terminals that do not meet current State Highway Standards safety guidelines.
- 2. The Contractor is reminded of the requirements of Subsection 105.16 Subcontract Requirements, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- 3. The Contractor's attention is directed to the following Sections: Subsection 104.11 Utilities and Services; Subsection 107.06 Contractor Duty Regarding Public Convenience; and Section 645 Work Zone Traffic Control.
- 4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- 5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the Various Contract Items and will not be paid for seperately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- 6. The Contractor shall notify, the Oahu Transit Services, Lowell Tom (848-4578) or Ed Sniffen (848-4571), two (2) weeks prior to construction, informing them of location, scope of work, and closure of Name of Highway and/or traffic lanes and dates of closure. (For Oahu projects only. For other islands, check with your local bus company.)
- 7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
- 8. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to the Various Contract Items and will not be paid for separately.
- 9. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
- 10. Contractor to restore all landscaped areas damaged according to Section 641, Hydro-Mulch Seeding. Grass restoration shall be considered incidental to Various Contract Items.
- 11. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to Sidewalk or the Various Contract Items and will not be paid for separately.
- 12. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to Bulk of Work or the Various Contract Items and will not be paid for separately.

- 13. When installing guardrail posts within 3' from the waterline, the post shall be hand placed and not driven. the holes shall be backfilled and compressible material, ASTM C33 Coarse Aggregate, Size no. 57. This work shall be considered incidental to Guardrail items and shall not be paid for seperately.
- 14. Obstructions and nesting costs shall be considered incidental to Guardrail items and shall not be paid for seperately.
- 15. The Contractor shall provide and maintain a temporary pedestriansafe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved at least an inch of Asphalt Concrete Pavement, Mix No. IV or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.]. This work shall be incidental to Curb Ramps, or Sidewalk, or the Various Contract Items and will not be paid for separately.
- 16. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at Telephone No. 831-6712.
- 17. Probing for guardrail utilities shall be considered incidental to Guardrail Items and will not be paid for separately.
- 18. Drilling of holes shall be considered incidental to Various Guardrail Items and will not be paid for separately.
- 19. Any unfinished shoulder widening, metal railings, guardrails, and median drainage work shall not be left unshielded at the end of the work day. If such work is not completed within the work day, that section shall be shielded by NCHRP TL-2 rated portable physical barriers. The physical barriers shall be protected by end treatments in compliance with NCHRP TL-2 and the manufacturer's reccommendations/requirements and State Standard Plan TE-43. At the end of the work day, all travel lanes shall be open. The contractor shall develop a Traffic Control Plan to include these portable physical barriers and all necessary Traffic Control Devices and shall be approved by the Engineer. All work mentioned above including furnishing, installing, and maintaining physical barriers shall be considered incidental to Contract Item No. 645,1000 Traffic Control and shall not be paid for separately.
- 20. Existing drainage system will be functional at all times during. construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to Various Contract Items.
- 21. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other Various Contract Items and will not be paid for separately.
- 22. The exact location and limits of guardrail improvements shall be determined in the field by the Engineer.
- 23. Removal of existing guardrail sections and end treatments shall be considered incidental to Various Guardrail Items and will not be paid for separately.
- 24. The Contractor shall verify the exact location of any underground utilities within the project limits prior to installing guardrail posts. The Contractor shall adjust new guardrail posts within manufacturer's specifications to account for the actual locations of underground utilities. Probing for utilities and adjusting new guardrail posts shall be considered incidental to various items of work. The Contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at the Contractor's expenses.



25. Planting and ashalt concrete around guardrails shall be considered incidential to Guardrail Items and will not be paid for separately.

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10/27/22 1 Revised notes

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES \$ LEGEND

GUARDRAIL AND SHOULDER IMPROVEMENTS

At Various Locations, Phase 2, Oahu

Federal Aid Project No. NH-0300(166)

SHEET No. 1 OF 2 SHEETS

Date: November, 2022

DRAINAGE NOTES:

- 1. Existing drainage systems shall be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. The cost shall be incidental to the various Contract Items and will not be paid for separately.
- 2. The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
- 3. For added reinforcing around culverts at new drainage structures, see Standard Plan H-06.
- 4. Chamfer all exposed concrete edges 1".

SEWER NOTES

- 1. Existing sewer system shall be functional at all times.
- 2. The location of all sewer manholes shall be marked prior to and after paving and the manhole restored within one week after paving is completed.
- 3. Manhole frames and covers are paired and are to be reinstalled as removed.
- 4. The Contractor is responsible for removing all asphalt and debris from manholes in conformance with OSHA Standards and all Federal, State and City laws and regulations applicable to Confined Space Entry.
- 5. All "Sewer Notes" as provided on the project plans are to be adhered to. No exceptions.
- 6. The Collection System Maintenance, General Foreman. (768-7250) shall be notified when manhole restoration on this project is scheduled to be initiated.

EGEND

	<u>LEGE</u>
	Milled Rumble Strips
	Shoulder Widening Areas
	Reconstruction Areas
	Cold Planing Areas
	Resurfacing Limits
e	Existing Electrical Line
——E——	New Electrical Line
°pp	Existing Power Pole
°emh	Existing Electric Manhole
⊕ EMH	Adjusted Elec. MH Frame/Cover
□epb	Existing Electric Pullbox
° tmh	Existing Telephone Manhole
$^{oldsymbol{\circ}}TMH$	Adjusted Tele. MH Frame/Cover
°tpb	Existing Telephone Pullbox
w12	Existing 12" Water Line
$^{\circ}wmh$	Existing Water Manhole
•WMH	Adjusted Water MH Frame/Cover
$^{ullet}WMH$	New Water Manhole
oav	Existing Water Air Valve

Adjusted Water Air Valve

Existing Water Valve Box

Adjusted Water Valve Box

New Type "X" Water Meter Box

Existing Water Meter

Adjusted Water Meter

<u>—</u>	
\triangleright	Existing Traffic Sign
•	New Traffic Sign
-6-fh	Existing Fire Hydrant
	Existing Metal Guardrail
	New Metal Guardrail
	Adjusted and/or Relocated Metal Guardrail
—— <i>A</i> —12—	Existing Sewer Line
——S—12—	New 12" Sewer Line
° smh	Existing Sewer Manhole
°SMH	Adjusted Sewer MH Frame/Cover
[●] SMH	New Sewer Manhole
	Existing Monument
[©] MON.	Adjusted Monument
© _{MON} .	New Monument
d24	Existing 24" Drain Line
°4dmh	Existing Storm Drain Manhole
[©] SDMH	Adjusted Storm Drain MH Frame/Cove
∃ gdi	Existing Grated Drop Inlet
$^{\boxminus}GDI$	New Grated Drop Inlet
□ GDI	Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate

FED. ROAD
DIST. NO.STATEPROJ. NO.FISCAL
YEARSHEET
NO.TOTAL
SHEETSHAWAIIHAW.NH-0300(166)2022422

SINAL SURVEY PLOTTED BY DATE DATE TRACED BY X TRACED BY X .

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

GUARDRAIL AND SHOULDER IMPROVEMENTS

At Various Locations, Phase 2, Oahu

Federal Aid Project No. NH-0300(166)

Date: September, 2022
SHEET No. 2 OF 2 SHEETS