

GENERAL NOTES

1. The scope of work for this project includes replacing the existing traffic signal at Kahului Beach Road and Kanaloa Avenue Intersection.

2. The contractor shall perform all applicable construction work in accordance with the "Department of Transportation, Highways Division, Standard Plans", as amended and "Hawaii Standard Specifications for Road and Bridge Construction, 2005", as amended for the State of Hawaii.

3. The contractor shall verify the location of all existing utilities, whether shown on the plans or not, and shall be responsible for the repair or replacement of the same in the event of damages due to his construction practices, at no cost to the State.

4. All dimensions and details shown on the drawings shall be checked and verified prior to the start of construction, and any discrepancies shall be immediately brought to the attention of the Engineer for clarification.

5. 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.

6. The contractor is reminded of the requirements of Subsection 105.16 - Subcontracts, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with the Subsection may be grounds for rejection of bid.

7. 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.

8. 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 separately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

9. Prior to beginning work on the project, the Contractor shall request toning of utilities from One Call Center, phone 811 or 1-866-423-7287.

10. Contractor shall exercise extreme caution to preserve BENCHMARKS (Survey Monuments). Whenever the center of a Survey Monument is less than three (3) feet from the edge of construction, the contractor shall retain a Licensed Land Surveyor to reference the location of said Survey Monument.

11. Benchmarks that are disturbed or destroyed shall be restored under a Licensed Land Surveyor's direction. Copies of field notes, descriptions and new values of the new benchmark shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.

12. All new reference survey monuments shall be set under a licensed land surveyor's direction. Copies of field notes, descriptions and values of the new survey monuments shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.

13. 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 and to the satisfaction of the Engineer.

14. Smooth riding connections shall be constructed at all limits of project or where work has occurred or both, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. Walkways and driveways shall comply with Americans With Disabilities Act Accessibility Guidelines (ADAAG) and shall not have a difference in elevation between two adjoining surfaces of more than 0.25 inch. All of this work shall be considered incidental to asphalt concrete or other items of work and will not be paid for separately.

15. The Contractor shall clean and remove any accumulation of aggregates along the roadway 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.

16. Removal and disposal of existing asphalt concrete pavement, and any debris shall be considered incidental to their respective bid items.

17. All saw cutting work shall be considered incidental to Roadway Excavation or Asphalt Concrete or various contract items or their respective bid items.

18. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.

19. 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 curb ramps, or sidewalk, or the various contract items and will not be paid for separately.

20. Provide and maintain in or near the work zone a temporary pedestrian-safe and easily accessible route or detour or both with barricades placed in accordance with the MUTCD. The temporary route or detour shall be smooth, solid, non-slip and ADAAG compliant which includes accommodations for people with vision disabilities. The temporary route or detour shall be paved with at least an inch of Hot Mix Asphalt (HMA) Pavement, Mix No. V or other non-slip material acceptable to the Engineer, e.g., steel plates or wood planks or combination of both. (The HMA paving or installation of other non-slip material is only applicable if the temporary route's or detour's existing surface is dirt or if the existing surface is non-ADA compliant.) Restore the temporary route or detour surface to pre-construction condition when no longer needed for the project's work.

21. The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tape, and epoxy adhesives prior to the overlaying of asphalt concrete. This work shall be considered incidental to asphalt concrete pavement, Mix No. IV and will not be paid for separately.

22. Except during actual working hours, all signs which do not pertain to the construction activity, such as "MEN WORKING" and "FLAGMEN AHEAD" shall be covered or laid down. However, all signs necessary for safety of the public shall be maintained.

23. The contractor shall employ a Hawaii registered professional surveyor to perform all construction stakeouts, the cost of which shall be borne by the contractor.

24. The contractor shall make his own arrangements for, and pay for all temporary utilities required for his work.

25. The contractor shall procure and pay for all licenses and permits and shall give all notices necessary and incidental to the due and lawful prosecution of the work.

26. The contractor shall remove and dispose all silt and debris deposited in drainage facilities, roadways and other areas resulting from his work. The cost incurred for any necessary remedial action ordered by the Engineer shall be paid for by the Contractor.

27. The contractor shall not damage any roots of the protected trees during roadway excavation.

28. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contact items and shall not be paid for separately.

29. Should historic sites such as walls, platforms, pavements and mounds, or remains such as artifacts, burials, concentration of charcoal or shells be encountered during construction work, work shall cease in the immediate vicinity of the find and the find shall be protected form further damage. The contractor shall immediately contact the State Historic Preservation Division ((808) 243-5169), which will assess the significance of the find and recommend an appropriate mitigation measure, if necessary. A minimum 3-meter/10-foot wide buffer zone exists around all sites in preservation during construction. It is highly important that the preserved sites remain undisturbed.

30. All workers within the State Right-Of-Way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the requirements of ANSI/ISEA 107-2015, Type R or P, Performance Class 2 or 3. "Workers" is defined as people on foot whose duties place them within the State Right-Of-Way, such as, but not limited to construction and maintenance forces, equipment operator, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
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| DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| MAUI | HAW. | 3400A-01-20 | 2024 | 3 | 35 |
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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
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- EXP. 4/30/26
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES; DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.

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LICENSE EXPIRES: APRIL 30, 2026

ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC.
REGISTERED SURVEYOR

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LINE IS 2 INCHES AT FULL SIZE
(If NOT 2-inches : Scale Accordingly)
- STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES FOR CONSTRUCTION

Kahului Beach Road Intersection Improvements at Kanaloa Avenue Project No. 3400A-01-20

Scale: As Shown Date: July 2024

SHEET No. G-2 OF 8 SHEETS
- 3

NOTES FOR CONSTRUCTION WITHIN
STATE RIGHT OF WAY

1. The Contractor shall obtain a construction permit from the State's Highway District Engineer at 650 Palapala Drive, Kahului, Maui, prior to commencement of work within State Highway Right-of-Way.

2. Work may be performed only between the hours of 8:30 A.M. and 3:00 P.M., Monday through Friday, except State holidays, unless when otherwise approved in writing by the District Engineer.

During work hours, only one lane of traffic shall be closed, unless otherwise approved in writing by the District Engineer. All lanes closures must be approved by HDOT one (1) week in advance.

At certain locations, "No Lane Closure" will be allowed during the "Back to School Jam", Thanksgiving weekend, Christmas/New Year period and at other times as directed by the Highways Division.

3. The Contractor shall provide, install, and maintain all necessary signs, lights, flares, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection and for the convenience and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii Governing the use of Traffic Control Devices at Work Sites on or adjacent to Public Streets and Highways" adopted by the Director of Transportation, and the current U.S. Federal Highway Administration "Manual on Uniform Traffic Control Devices for Streets and Highway, Part VI Traffic Controls for Street and Highway Construction and Maintenance. A Traffic Control Plan shall be incorporated into the construction plans and must be approved by the Division prior to the issuance of the permit.

4. No material and/or equipment shall be stockpiled or otherwise stored within the Highway Right-of-Way except at locations designated 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 Maui District office.

5. Compaction test shall be taken in accordance with the "Specifications for Installation of Miscellaneous Improvements within State Highways", as follows:

A. Subbase: 1 compaction test per lift for each 300 lineal feet or fraction thereof or minimum 1 test per day.

B. Base Course: 1 compaction test per lift for each 200 lineal feet of fraction thereof or minimum 1 test per day.

C. One compaction test per lift for each 300 lineal feet of trench or fraction thereof. A copy of the results shall be submitted to the District Engineer.

7. The Contractor shall be required to provide adequate, safe, non-skid bridging material over the trench, including shoring, when trenching in pavement areas, to handle all types of vehicular traffic. Vehicles crossing the bridging material shall make no noise louder than a vehicle would driving on an adjacent un-bridged, untouched road. All bridging shall be at a minimum meet or exceed being Traffic-Rated and meet or exceed the requirements of HL-93.

8. Longitudinal drainage along the highway shall be maintained.

9. Pavement striping shall be done by the Contractor. Pavement marking and striping shall be Thermoplastic Extrusion.

10. Approval of permit construction plans shall be valid for a period of one year thereof from the date of notification of approval to the applicant. In the event construction does not commence within the one-year period, the applicant will be required to re-submit his construction plans for Division's review and approval.

11. All regulatory, guide and construction signs and barricades shall be of high-intensity reflective sheeting.

12. The contractor shall exercise care when excavating in this area. Damages to the existing facilities shall be immediately reported to the respective utility companies, county and state agency. The repair work shall be done at the contractor's expense.

13. The contractor shall notify the Highway Lighting and Traffic Signal Supervisor, Department of Transportation (State) three (3) working days prior to commencing work in this area (phone no. (808)873-3535).

14. Contractor shall inform the State permit office (phone no. (808)873-3535) at least two (2) days prior to closing any lanes.

15. Where pedestrian walkways exist, they shall be maintained in passable and accessible condition. Any detour or rerouting of pedestrian traffic shall comply with ADAAG 4.3 as required by ADAAG 4.1.(4) and the MUTCD. Walkways at intersections shall be likewise provided.

16. Plastic marking tape: Provide plastic marking tape that is acid and alkali resistant polyethylene film 6 inches wide with minimum thickness of 0.004 inch. Provide tape with minimum strength of 1750 psi crosswise. Manufacture tape with integral wires, foil, backing or other means to enable detection by a metal detector when the tape is buried up to 3 feet deep. Manufacture tape specifically for marking and locating underground utilities. Provide the metallic core of the tape encased in a protective jacket or provided with other means to protect it from corrosion. Conform to the following tape color and bear a continuous printed inscription describing the specific utility.

- Red: Electric
- Yellow: Gas, Oil, Dangerous Materials
- Orange: Telephone, Telegraph, Television, Police, Fire and Communications
- Blue: Water Systems
- Green: Sewer Systems

17. The Contractor shall provide the District Engineer with As-Built plans upon completion of the work done in the State Right-of-Way. This shall be done prior to the Department's release of the performance bond and pre-final inspection.

PUBLIC HEALTH, SAFETY AND CONVENIENCE NOTES

1. The contractor shall observe and comply with all Federal, State, and Local laws required for the protection of public health and safety and environmental quality.

2. The contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in accordance with the air pollution standards and regulations of the State Department of Health. The County of Maui shall require supplemental measures as necessary.

3. The contractor shall be responsible for the cleaning and removal of all silt and debris deposited and accumulated within downstream waterways, ditches and drain pipes and on public and private roadways generated by his work. The contractor agrees to reimburse the County of Maui for all costs expended in performance of the above work if required for public health and safety, or made necessary by non-performance by the contractor.

4. The contractor shall provide, install, and maintain all necessary signs, lights, flares, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection, convenience and safety of the public.

5. The contractor shall submit a noise pollution control plan when applying for a construction permit.

6. Temporary pedestrian routes shall be maintained in safe, passable and accessible condition complying with ADAAG 402.1.

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	3400A-01-20	2024	4	35

NOTES FOR ENVIRONMENTAL PROTECTION

1. Environmental protection notes pertaining to air and water pollution shall be administered and monitored by the Department of Health.

2. The contractor, at his own expense shall provide effective measures for the control of fugitive dust emissions from the project and surrounding areas caused by his operations. these measures shall meet the requirements of State Administrative Rules, Department of Health, Air Pollution Control (11-60.1).

3. All grading operations shall be performed in conformance with the applicable provisions of the grading ordinance to prevent violation of the State Administrative Rules, Department of Health, Water Pollution Control and Water Quality Standards (11-54, 11-55) due to erosion and runoff to State waters.

4. Grub material, demolition wastes, and construction wastes shall be disposed of at an authorized site having a Department of Health Solid Waste Management Permit. Open burning is prohibited.

TRAFFIC NOTES FOR TRAFFIC CONTROL PLAN

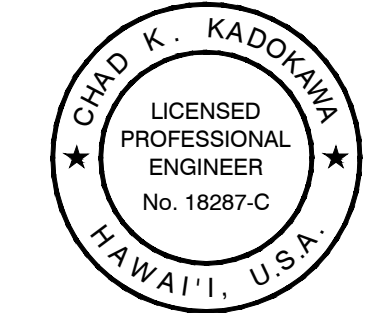
FOR CONSTRUCTION WITHIN COUNTY RIGHT OF WAY

1. "No Parking" signs shall be posted at a minimum of every 100 ft within any work area and for the buffer and taper areas approaching to work area.

2. Six (6) weeks minimum prior to start of work operations, submit for Engineer's review and acceptance detailed site-specific traffic control plans for each intersection covering all phases of work such as painting of mast arms, and replacing controller. Traffic control devices, signs and flagger positions shall be shown. Construction work shall not proceed until the traffic control plans have been accepted by the Engineer.

3. The Contractor shall be responsible for obtaining permission from the County of Maui and/or, obtaining a Road Permit for all work within the County R/W. The Contractor shall inform private property owners of the purpose and need of the project, and the specific work to take place onsite prior to work start, as applicable. This coordination work and obtaining permission and permit fee shall be considered incidental to the various contract items.

ORIGINAL PLAN	DATE	SURVEY PLOTTED BY	_____
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES FOR CONSTRUCTION
*Kahului Beach Road Intersection
Improvements at Kanaloa Avenue
Project No. 3400A-01-20*
Scale: As Shown Date: July 2024
SHEET No. G-3 OF 8 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	3400A-01-20	2024	5	35

DEPARTMENT OF WATER SUPPLY NOTES

- The contractor shall notify the Department of Water Supply (DWS), in writing, one (1) week prior to commencement of work.
- If construction of water system improvements will affect DWS consumers, contractor shall notify consumers by radio/newspaper two (2) days before and on day of connection. Contractor shall also notify consumers house-to-house one (1) day before connection work.
- All materials used and methods of construction of water system facilities shall be in accordance with the latest revision of DWS water system standards. Contractor shall obtain the latest revisions of the DWS standards before commencing construction.
- All water system work shall be performed by the contractors possessing valid state of Hawaii contractor's licenses, regardless of the value of the work.
- Contractor shall follow all Local, State, Federal laws, rules and regulations regarding the handling, removal and disposal of asbestos pipe.
- Contractor shall protect existing waterlines during course of construction and support exposed waterlines to prevent any movement.
- The exact depth and location of existing waterlines, service laterals and other utilities are not known. It shall be the contractor's responsibility to locate prior to trenching for the new waterline. The cost of lowering, relocating or adjusting existing waterlines, service laterals and appurtenances, whether shown or not shown on the construction plans at the contractor's expense.
- Pavement resurfacing/restoration:
 - Contractor shall verify location of existing DWS valves and manholes, when affected by the work, prior to the start of construction.
 - All water valve and water manhole concrete collars within the project limits shall be demolished and reconstructed per DWS standard detail v12 and v23, respectively, at the contractor's expense.
 - The valve box riser and cover of all water valves within the project limits shall be replaced at the contractor's expense.
 - Contractor shall adjust DWS sliding valve box assembly and manhole frame and cover to finished grade.
 - Prior to pavement resurfacing/restoration work, the contractor shall schedule inspection with DWS.
- Any sliding valve box assembly, manhole cover, or concrete collar, whether discovered damaged or not specified on the plans to be adjusted or replaced, shall be replaced at the contractor's expense.
- Contractor shall adjust to finished grades, all utilities (i.e. water, sewer, drain, etc.) affected by the work whether shown or not shown on the construction plans at the contractor's expense.
- Contractor shall restore all road improvements disturbed or damaged during construction in accordance with the 2005 "Hawaii Standard Specifications for Road and Bridge Construction" as amended, to the satisfaction of the Department of Public Works at the contractor's expense. Road improvements include, but not limited to, pavement, pavement markers, shoulder dressing, striping, and speed humps.

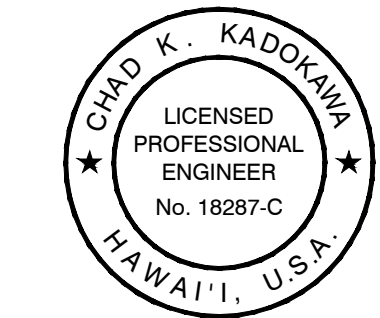
DEPARTMENT OF WATER SUPPLY NOTES (CONT.)

- Concrete for reaction blocks and anchor blocks shall be DWS class 2500.
- The maximum distance between valve nut and top of manhole cover shall be three (3) feet.
- Contractor shall submit a materials list to DWS for approval prior to construction.
- Connection to DWS system:
 - Contractor shall be responsible for furnishing all necessary fittings and other materials and equipment required for the hookup. contractor shall, however, check with DWS before excavating for verification purposes.
 - Whenever feasible, mechanical joint fittings shall be used for buried applications and flanged joint fittings shall be used for exposed applications.
 - DWS personnel may be required to be present or assist with connections to the existing water system. the contractor shall be responsible for all costs incurred by DWS for said work.
 - The contractor shall be responsible for furnishing all material, equipment and labor for trench excavation, backfilling, cleaning and chlorination, paving, and other work necessary to complete the hook-up, as directed by and to the satisfaction of DWS.
- Minimum cover over water main, 6" diameter or larger, shall be 3'-0". Minimum cover for 4" diameter shall be 2'-6". Minimum cover for diameters less than 4" shall be 1'-6".
- Contractor shall ensure installation of waterlines, service laterals and appurtenances have proper clearances from existing trees, walls, fences, etc. in accordance with current DWS water system standards.
- Contractor shall verify and maintain 18" minimum clearance with waterline or service lateral crossing over existing sewerline or service laterals. Install reinforced concrete jacket around sewerline where sewer is above waterline or less than 18" below waterline. The length of jacket required shall be specified in table 100-5 of the DWS standards. Provide 6" minimum clearance from outside jacket to waterline or service lateral. Standard concrete jacket details for sewerline as specified by the Department of Public Works standards shall be followed.
- Contractor shall have licensed surveyor stake out waterline baseline stationing, Right-of-Way limits, property lines, and easement lines to ensure proper location of water system improvements.
- Bolts for exposed flanged ductile iron pipe joints shall be either silicon bronze bolts and nuts or 316 stainless steel bolts with the heavy duty stainless nuts (only) furnished with tripac 2000 blue coating system. Anti-seize shall not be used. T-bolts for ductile iron mechanical joint (MJ) pipe and fitting connections in underground situations shall be one of the following systems.
 - 316 stainless steel T-bolts with the heavy duty stainless steel nuts (only) furnished with tripac 2000 blue coating system. Anti-seize shall not be used.
 - Cor-ten T-bolts and nuts with high grade zinc sacrificial anodes, equivalent to "Duratron" sacrificial "Sac-Nut" modules, installed on the nuts for all standard Cor-ten T-bolts.

DEPARTMENT OF WATER SUPPLY NOTES (CONT.)

- Cor-ten T-bolts and nuts both factory coated with tripac 2000 blue coating system by "Tripac Fasteners". All hot forged stainless steel bolts are required to be passivated per ASTM A380. Manufacturer certificates are required for proof with each shipment.
- Contractor shall furnish and install ductile iron nipples for complete installation of the waterline, whether shown or not shown on the construction plans, at the contractor's expense.
- Contractor shall furnish temporary cleanouts when necessary to test, flush, and chlorinate the waterline at the contractor's expense.
- Contractor shall remove and dispose of all portions of abandoned waterlines that are exposed or within 12-inches below the ground surface at the contractor's expense.
- All buried metals, including copper pipes, shall be wrapped with poly-wrap. For all buried installation of ductile iron pipe and fittings, poly-wrap is required except within concrete jackets.
- Lubricate hydrant nozzle threads with non-toxic grease.
- Contractor shall paint and number fire hydrant(s). Numbering to be furnished by DWS.
- Water mains and appurtenances shall be subject to hydrostatic testing in accordance with the latest revision of AWWA C600, under the "Hydrostatic Testing" section, to a pressure of at least 1.5 times the working pressure. Unless otherwise stated in the construction documents or limited by the pressure rating of equipment, the pressure test and leakage test shall be performed at 225 pounds per square inch pressure.
- Developer shall submit a cost list along with an affidavit for the water system prior to acceptance.
- Contractor shall submit one (1) set of record drawings via a consultant prior to acceptance of the water system. An electronic image file in PDF format at full page size (24"x36") shall be provided to the DWS for all projects.

ORIGINAL PLAN	DESIGNED BY	DATE	DRAWN BY	CHECKED BY
NOTE BOOK	DESIGNED BY		TRAFFIC BY	
No.	QUANTITIES BY			
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LICENSE EXPIRES: APRIL 30, 2026
ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES FOR CONSTRUCTION
Kahului Beach Road Intersection Improvements at Kanaloa Avenue
Project No. 3400A-01-20
Scale: As Shown Date: July 2024
SHEET No. G-4 OF 8 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	3400A-01-20	2024	6	35

GRADING NOTES

1.

All grading and stockpiling work shall be in accordance with Maui County Code, Title 20, Chapter 8.
2.

All debris shall be removed from the site and premises left in a "Rake Clean" condition.
3.

The contractor, at his expense, shall keep the project and surrounding area free from dust nuisance.
4.

All grading operations shall be performed in conformance with the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title II, Administrative Rules of the State Department of Health, and if applicable, the NPDES permit for the project.
5.

All existing utilities, whether or not shown on the plans, shall be protected at all times, unless noted otherwise.
6.

All planter areas shall be sodded or planted as soon as final grades have been established. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area within which work has been interrupted or delayed shall be planted. Planting shall be maintained to minimize erosion.
7.

The contractor shall obtain a grading permit from the Development Services Administration two weeks prior to commencement of any clearing and grubbing work within County R/W. A site specific Erosion Control Plan showing structural & non-structural Best Management Practices must be submitted to and approved by the Development Services Administration prior to issuance of a grading permit and commencement of any clearing and grubbing work.
8.

The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The contractor shall verify the location and depth of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities to existing utilities are shown on the plans, the contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
9.

The County shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
10.

No grading work shall be done on Saturdays, Sundays and holidays at any time without prior notice to the Chief Engineer.
11.

The limits of the area to be graded shall be flagged before the commencement of the grading work.

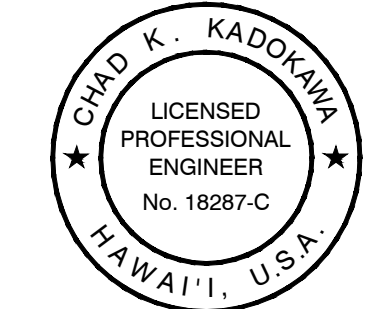
LEGEND

	Existing Electrical/Telephone Overhead Cables
	Existing Drainline
	Existing Sewerline
	Existing Waterline and Size
	Existing Tree
	Existing Contour Line and Elevation Text
	Existing Raised Pavement Markers
	Existing Sign
	Existing Wooden Fence
	Existing Drain Inlet
	Existing Delineator
	Right-of-Way
	New Concrete Slab
	New Drainline
	Direction of Flow
	Finish Grade
	New Catch Basin
	New SDMH
	New Delineator

ABBREVIATIONS

A.C.	Asphalt Concrete	Pav't	Pavement
ARV	Air Relief Valve	Pb	Pullbox
B	Baseline	PIVC	Point of Intersection Vertical Curve
BC	Bottom of Curb	PL	Property Line
Blk.	Block	PC	Point of Curve
Blvd.	Boulevard	PCC	Point of Compound Curve
BV	Bottom Vertical	POC	Point on Curve
BVC	Begin Vertical Curve	PPB	Pedestrian Push Button
BW	Bottom of Wall	PPM	Parts Per Million
CB	Catch Basin	PRC	Point of Reverse Curve
Ch	Chord	PT	Point of Tangency
CL	Centerline	PRVC	Point of Reverse Vertical Curve
C.O.	Class	R	Radius
Cleanout	Cleanout	RCP	Reinforced Concrete Pipe
Conc.	Concrete	ref	Reflector
CG	Change in Grade	R.O.W. or R/W	Right-of-Way
CRM	Concrete Rubble Masonry	rpm	Raised Pavement Marker
CY	Cubic Yards	Rt.	Right
d or DIA.	Diameter	S	Spread
DI	Drain Inlet	SDMH	Storm Drain Manhole
Dr.	Drive	SF	Square Feet
D/W or Drwy.	Driveway	SIC	Sandwich Isles Communications Inc.
Δ	Delta	SMH	Sewer Manhole
EMB	Embankment	Sta.	Station
EVC	End Vertical Curve	Std.	Standard
EXC	Excavation	T	Tangent
Exist.	Existing	TC	Top of Curb
FH	Fire Hydrant	Temp.	Temporary
Fin.	Finished	TSS	Traffic Signal Standard
Fnd	Found	TV	Top Vertical
ga	Guy Anchor	TW	Top of Wall
GRP	Grouted Rubble Paving	Typ.	Typical
Δ/2	Half Delta	UP	Utility Pole
h	Height	V.C.	Vertical Curve
Horiz.	Horizontal	Vert.	Vertical
Hwy.	Highway	W/	With
Inv.	Invert	WL	Water Line
Lbs	Pounds	WM	Water Meter
Lc	Length of Curve	WMH	Water Manhole
LF	Linear Feet	WV	Water Valve
Lt	Left		
Max.	Maximum		
MH	Manhole		
Min.	Minimum		
M.L.	Matchline		
NO.	Number		
O.C.	On Center		
O/S	Offset		

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
NOTE BOOK	QUANTITIES BY	
	CHECKED BY	
No.		



EXP. 4/30/26
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.
CH K
LICENSE EXPIRES: APRIL 30, 2026
ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC.
1
2
LINE IS 2 INCHES AT FULL SIZE
(If NOT 2-inches : Scale Accordingly)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES FOR CONSTRUCTION
Kahului Beach Road Intersection Improvements at Kanaloa Avenue
Project No. 3400A-01-20

Scale: As Shown
Date: July 2024

SHEET No. G-5 OF 8 SHEETS