### <u>GENERAL NOTES:</u>

- 1. The scope of work for this project includes reconstructing culvert conveying flow for Waipio Stream on Hana Highway includes erosion control, traffic control, construction of a lane, replacement of concrete box culvert, AC pavement reconstruction, signing and pavement marking, and guardra installation.
- 2. The Contractor is reminded of the requirements of Subsec - Subcontracts which requires him to perform work amount not less than 30 percent of the total contract cost less de items. Non-Compliance with this Subsection may be ground rejection of bid.
- 3. The Contractor's attention is directed to the following Section the Standard Specifications and the Special Provisions: SL 104.09 - Maintenance of Traffic; Subsection 104.11 - Utilities Services; Subsection 105.09 - Coordination Between the Cor Subsection 107.06 - Contractor Duty Regarding Public Conve Subsection 107.12 - Protection of Persons and Property; an 645 - Work Zone Traffic Control.
- 4. The existence and location of underground utilities, manho monuments and structures as shown on the plans are from latest available data but the accuracy is not guaranteed. encountering of other obstacles during the course of work possible. The Contractor shall be held liable for any dama incurred to the existing facilities and/or improvements as of his operations.
- 5. All existing utilities, whether or not shown on the plans, s protected at all times by the Contractor during construction specified on the plans to be abandoned. All existing utilit poles, overhead utilities and guy poles/wires shall remain and operational. The Contractor shall be held liable for a damages incurred to the existing utilities as a result of operations. All damaged portions shall be replaced in according with the standards and specifications of the affected util company at no cost to the State. No delays or extensions contract time will be allowed as a result of these required
- 6. The Contractor shall indemnify and be solely responsible f protection of adjacent properties, utilities, and existing sti from damages due to construction. Repairing any damage at the Contractor's own expense, to the satisfaction of the
- 7. Existing drainage system shall be kept functional at all tin during construction. The Contractor shall furnish material equipment, labor, tools and incidentals necessary to maintai This work shall be considered incidental to the various co items.
- 8. Existing facilities and/or pavement to remain which has b damaged by the Contractor shall be restored to its origina condition at no cost to the State.
- 9. All graded areas and all grassed areas damaged by construction activities shall be planted in accordance with Specifications Section 641 - Hydro-Mulch Seeding. This work is considered incidental to the various contract items.

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|   | <u>GE</u> | ENERAL NOTES, CON'T:   | <u>ABBRE</u>                                      |
|---|-----------|--|---|
| g the<br>y; Work<br>temporary<br>ail  | 10.       | Contractor shall use Hawaii-licensed Surveyors to stake<br>right-of-way boundaries. Use survey monuments, stake boundary<br>corners and every 500 feet of boundary. Engineer will not pay<br>separately for surveying and will consider the cost as incidental in<br>the contract cost for the various contract pay items.   | Az<br>₽<br>BVC<br>BMP                             |
| ction 105.16<br>nting to  | 11.       | All Asphalt Concrete materials from cold planing, reconstruction and roadway excavation operations shall be properly disposed at an authorized facility.   | C<br>CRM<br>d                                     |
| eductible<br>ds for<br>ctions of<br>ubsection<br>s and  | 12.       | Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to HMA Pavement Mix No. IV and will not be paid for separately.   | Elev.<br>EP<br>ep<br>ES                           |
| ntractors;<br>venience;<br>nd Section   | 13.       | All saw cutting work shall be considered incidental to HMA<br>Pavement, Mix No. IV and will not be paid for separately.  | es<br>EVC<br>Exist.                               |
| oles,<br>m the<br>The<br>k is   | 14.       | The Contractor shall remove and dispose of all existing raised<br>pavement markers and traffic tapes prior to the overlaying of<br>Asphalt Concrete. This work shall be considered incidental to HMA<br>Pavement, Mix No. IV and will not be paid for separately.  | ga<br>GRP<br>HMA                                  |
| ages<br>s a result<br>shall be<br>on unless   | 15.       | No material and/or equipment shall be stockpiled or otherwise<br>stored within the State right-of-way except at locations designated<br>in writing and approved by the Engineer. If use of location is<br>approved by the Engineer, the Contractor shall obtain a permit to<br>use the property within the State right-of-way from the State<br>Highways Division at telephone no. 808-873-3535.   | Lc<br>Lt.<br>M.L.<br>o.c.<br>o/s                  |
| ty/light<br>in place<br>any<br>his<br>cordance<br>lity<br>of<br>of<br>d repairs.<br>for the<br>ructures<br>shall be | 16.       | Trimming and dressing of shoulder shall consist of clearing,<br>grubbing, grading, reshaping and compacting the unpaved shoulders<br>with suitable material as shown on the plans and/or as directed by<br>the Engineer. Suitable materials shall include materials from<br>roadway excavation, including topsoil and base material therefrom,<br>and if necessary, additional materials from borrow outside the<br>limits of the right of way. Asphalt Concrete removed from cold<br>planing, reconstruction and roadway excavation shall not be used<br>for dressing of shoulder. This work shall be considered incidental<br>to the various contract items. | OHWM<br>PC<br>PCC<br>PIVC<br>PP<br>PT<br>R<br>Rt. |
| e Engineer.<br>imes<br>als,<br>ain flow.<br>ontract   | 17.       | Any work specified in the contract documents, but not listed<br>separately in the Proposal Schedule, shall be considered incidental<br>to the various contract items and shall not be paid for separately.   | R∕W<br>S<br>Sta.<br>T<br>TW                       |
| been<br>al  |           |  | V.C.  |
| truction  |           |  |   |

|            |   | FED. ROAD<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------|---|------------------------|-------|--------------------------|----------------|--------------|-----------------|
| IVIATIONS. | [ | HAWAII                 | HAW.  | ER-24(001)6              | 2021           | 3            | 52              |
|            |   |                        |       |                          |                |              |                 |

## <u>. VIALIONJ</u>

Azimuth Baseline Begin Vertical Curve Best Management Practices Chord Cement Rubble Masonry existing drainline Elevation New Edge of Pavement Existing Edge of Pavement New Edge of Shoulder Existing Edge of Shoulder End Vertical Curve Existing Guy Anchor Grouted Rubble Paving Hot Mix Asphalt Length of Curve Left of B Matchline on center Offset Ordinary High Water mark Point of Curvature Point of Compound Curvature Point of Intersection Vertical Curve Power Pole Point of Tangency Radius Right of ₿ Right-of-Way Slope Station along B Tangent Top Wall Elevation Vertical Curve

# RECORD DRAWINGS

THIS CERTIFIES THAT THIS AS-BUILT DRAWING ACCURATELY REFLECTS THE WORK AS CONSTRUCTED IN THE FIELD.

Tanner Hasse

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GOODFELLOW BROS., INC.

| STATE OF HAWAI'I<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION                               |
|---|
| <u>GENERAL NOTES</u><br>AND ABBREVIATIONS   |
| <u>HANA HIGHWAY EMERGENCY</u><br><u>Culvert Repairs at Waipio Stream</u><br>Project No. ER-24(001)6 |
| Scale: None Date: May 2021  |
| SHEET NO. N-2 OF 3 SHEETS   |

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY. 1. The Contractor shall obtain a Permit to Perform Work up Highways from the State Highways' District Engineer, at Palapala Drive, Kahului, Hawaii, prior to commencement of within the State's Highway Right-of-Way. 2. Construction and restoration of all existing highway facily the State's Right-of-Way, including the legal relations and responsibility to the public, shall be in accordance with t Hawaii Standard Specifications for Road and Bridge Con dated 2005, and the Specifications for Installation of Mis Improvements within State Highways, of the State Highwa Division. 3. Work may be performed only between the hours of 8:30 a. 3:30 p.m., Monday through Friday, except holidays, unless permitted by the District Engineer. 4. The Contractor shall provide, install and maintain all nece signs, lights, flares, barricades, markers, cones, and other facilities, and shall take all necessary precautions for th protection, convenience, and safety of public traffic. All protective facilities and precautions to be taken shall con the "Administrative Rules of Hawaii Governing the Use of Control Devices at Work Sites on or Adjacent to Public S Highways", adopted by the Director of Transportation, and current U.S. Federal Highway Administration "Manual on Traffic Control Devices, Part VI - Standards and Guides Traffic Controls for Street and Highway Construction, Ma Utility and Incident Management Operations". Lane closures shall conform to the traffic control plans incorporated in Section 645 and these construction plans be approved by the Division prior to the issuance of the 5. No material and/or equipment shall be stockpiled or other stored within the State's Highway Right-of-Way except at designated in writing and approved by the District Engin 6. Compaction tests shall be taken in accordance with the specifications for installation of miscellaneous improvement State Highways, as follows: a. Subbase: one (1) compaction test per lift per feet of roadway one (1) compaction test per lift per b. Base course: feet of roadway c. One (1) compaction test per lift per 300 linear feet of d. A copy of the test results shall be submitted to the Engineer. 7. Existing drainage systems shall be functional at all times 8. The Contractor shall exercise care to minimize damages highway improvements. All damages shall be repaired by Contractor, at his expense, to the statisfaction of the Dis Engineer. 9. Approval of the permit construction plans shall be valid for a period of one (1) year from the date of notification of approval to the applicant. In the event construction does not commence within this one-year period, the applicant will be required to resubmit the construction plans for the Division's review and reapproval. 10. All regulatory, guide, and construction signs and barricades shall

have a high-intensity reflective background.

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| ,<br>•   | <u>NO</u> | TES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY, CON'T:  | <u>PU</u>        | BLIC  |
|--|-----------|---|------------------|---|
| oon State<br>650<br>f work   | 11.       | The Contractor shall inform the State Highways' Permit Office<br>(873-3535) at least two (2) days prior to closing any lanes.   | 1.               | The<br>and<br>safet                                     |
|  | 12.       | Driveways shall be kept open unless the owners of the properties using these rights-of-way are otherwise provided for satisfactory.   | 2.               | The   |
| lities within<br>t<br>he current<br>nstruction<br>scellaneous<br>ays | 13.       | Where pedestrian walkways exist, they shall be maintained in a safe<br>and passable condition, or other facilities for pedestrians shall be<br>provided. Passages between walkways at intersections shall<br>likewise be approved. All walkways shall conform to ADA<br>requirements.   | З.               | surra<br>confa<br>State<br>meas<br>The<br>Regu          |
| .m. and<br>otherwise<br>essary<br>er protective                      | 14.       | The Contractor shall reference, to the satisfaction of the District<br>Engineer, all existing traffic signs, posts and pavement markings<br>prior to commencement of construction. The Contractor shall<br>replace or repair all traffic signs, posts, and pavement markings<br>disturbed by his activities, at his expense, unless directed<br>otherwise by the District Engineer or his representative. |                  | Noise<br>set.<br>allow<br>perm<br>Contr<br>with<br>Perm |
| such<br>such<br>form with<br>Traffic<br>Streets and                  | 15.       | The Contractor shall exercise care when performing work in, on or<br>adjacent to the State's Highway right-of-way. Damages to existing<br>facilities shall be immediately reported to the respective utility<br>companies, and/or County or State agencies. The repair work shall<br>be done at the Contractor's expense.   | 4.               | The<br>Hawa   |
| d the<br>Uniform<br>for  | 16.       | '<br>The Contractor shall implement Best Management Practices (BMP)<br>measures for all work within the State Highway.  | <u>HI:</u><br>1. | <u>STORI</u><br>Shou                                    |
| aintenance,  | 17.       | The Contractor shall notify the State Highway's Maintenance<br>Engineer (873-3535), three (3) working days prior to commencing<br>work.   |                  | of sl<br>work<br>and t                                  |
| and must<br>permit.<br>erwise  | 18.       | The permit to perform work upon State Highways may be revoked because of default in any of the following, but not limited to conditions:  |                  | Contr<br>Plani<br>Press<br>signi<br>meas                |
| locations<br>neer.   |           | a. Work performed before or after permitted hours.  |                  | Contr<br>Depa   |
| nts within   |           | b. Failure to maintain roadway surfaces in a smooth and safe condition.   |                  | Dopa  |
| 200 linear   |           | c. Failure to clean up construction debris generated from project work.   |                  |   |
|  |           | d. Failure to provide proper traffic control.   |                  |   |
| 200 linear   |           | e. Failure to replace damaged pavement markings and signs.  |                  |   |
| f trench.  | 19.       | After completion of the project, the Owner and/or Contractor, shall   |                  |   |
| District   |           | submit the complete set of "as-built" plans to the Highways Division.   |                  |   |
| S <b>.</b>   |           |   |                  |   |
| to existing<br>the<br>strict   |           |   |                  |   |
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|  | FED. ROAD<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|--|------------------------|-------|--------------------------|----------------|--------------|-----------------|
|  | HAWAII                 | HAW.  | ER-24(001)6              | 2021           | 4            | 52              |

#### HEALTH, SAFETY AND CONVENIENCE NOTES:

Contractor shall observe and comply with all Federal, State, Local laws required for the protection of public health and ty and environmental quality.

Contractor, at his own expense, shall keep the project and its rounding areas free from dust nuisance. The work shall be in formance with the air pollution standards and regulations of the te Department of Health. The County may require supplementary sures as necessary.

Contractor's attention is directed to Chapter 46, Public Health ulations, Department of Health, State of Hawaii, "Community se Control" in which maximum allowable noise levels have been If the construction activities for this project will exceed the vable noise levels, the Contractor will be required to obtain a nit from the Director of the Department of Health. The ractor shall obtain a copy of Chapter 448 and become familiar the noise level restrictions and the procedures for obtaining a mit for construction activities.

Contractor is to comply with the directions of the State of vaii Occupation Safety and Health Law (DOSH).

### ICAL PRESERVATION NOTES:

uld historic remains such as artifacts, burials, concentrations hell or charcoal be encountered during construction activities, shall cease immediately in the immediate vicinity of the find, the find shall be protected from further damage. The ractor shall cordon off the area and immediately notify the ning Department at (808) 240-4050 and the State Historic servation Division at (808) 692-8015, which will assess the ificance of the find and recommend teh appropriate mitigation sures, if necessary. In addition, if human burial are found, the ractor shall immediately notify the County of Kauai Police artment.

| RECORD DRAWINGS<br>THIS CERTIFIES THAT THIS AS-BUILT<br>DRAWING ACCURATELY REFLECTS THE<br>WORK AS CONSTRUCTED IN THE FIELD. |
|--|
| Tanner Hasse   |
| GOODFELLOW BROS., INC.   |
| STATE OF HAWAI'I<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION  |
| <u>GENERAL NOTES</u>   |
| <u>HANA HIGHWAY EMERGENCY</u><br><u>Culvert Repairs at Waipio Stream</u><br><u>Project No. ER-24(001)6</u>                   |
| Scale: None Date: May 2021<br>SHEET No. N-3 OF 3 SHEETS  |

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