

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360AB-01-18	2018	3	59

1. The scope of work for this project includes roadway, roadside, and drainage improvements along Hana Highway, Route 360, between mile post 8.1 and 21.5; replacing and installing new metal guardrail and end treatments; installing new soil nail retaining walls; repaving of asphalt concrete pavement; replacing and installing new pavement markings; replacing and installing new signing; installing new concrete drainage outlet structure; installing new grated drain inlets, storm drain manholes, drain pipe/culverts; installing new concrete rubble masonry wall; removing existing earth berms.

2. The Contractor is reminded of the requirements of Subsection 105.16 (A) - Subcontract Requirements, which requires him to perform work amounting 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 of the Standard Specifications: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities And Services; 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, buried railroad tracks, and concrete pavements, and other structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The Contractor shall make an independent check on the ground by probing and/or with the various utility companies and governmental agencies to verify the exact locations and depths of the existing utilities and obstructions. The Contractor shall exercise proper care in excavating in the area. Whenever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connection to verify their location and depth prior to excavating for the new lines. 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 Engineer in writing, two (2) weeks prior to starting work within D.O.T. Right-of-Way.

7. Existing drainage system will be functional at all times during construction. The Contractor shall furnish material, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.

8. 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 the various contract items and will not be paid for separately.

9. All saw cutting work shall be considered incidental to the various contract items.

10. Smooth riding connections shall be constructed at all times on the project, including the beginning and end of the project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer.

11. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing structures from the damages due to construction. Repairing of any damage shall be at the Contractor's own expense, to the satisfaction of the owner.

12. The Contractor shall clean and remove and dispose all accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to the various contract items and will not be paid for separately.

13. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to the various contract items and will not be paid for separately.

14. The Contractor shall remove and dispose of all existing raised pavement markers, thermo line markings, traffic tapes, and epoxy adhesives prior to the overlaying of HMA Pavement, Mix No. IV and will not be paid for separately. These work items shall be considered incidental to the various contract items.

15. The Contractor shall adjust flush to finish grade all manhole, valve, pull box, and handhole frames and covers, including those not shown on the plans, if there is a change in grade due to construction of the project. If the proposal does not show a contract item, the Engineer will consider them incidental to the various contract items.

16. 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.

17. After the project is completed, the Contractor shall restore grades and ground cover disturbed as a result of the project to a condition equal or better than existing before such damage or injury was done.

18. Existing utilities shall remain in service and in place at all times. If relocation of the existing utilities is required by the Contract Documents or for the Contractor's convenience, interruption of service shall be kept to a minimum and shall be done at the Contractor's expense with the approval of the affected utility company.

19. The Contractor shall verify all dimensions and details shown on the drawings prior to the start of construction. Any discrepancy shall be immediately brought to the attention of the Engineer.

20. No Contractor shall perform any construction operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing County drainage systems, or adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.

21. Tack coat shall be incidental to the various asphalt concrete pavement items.

22. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.

23. Contractor shall notify the State construction inspector before commencement of work on any site with trees in close proximity (20'±).

24. Contractor shall comply with conditions as stated in the project NPDES.

25. The Contractor must notify the Cadastral Section prior to removal of any State Survey Monument (Brass Disk) so that Cadastral can reference the monument prior to demolition of the existing monument. The Contractor shall bear all costs involved in restoring the State Survey Monuments which are affected by their work.

26. Work may be performed only between the hours of 8:30 a.m. and 3:30 p.m., Monday through Friday, except holidays, unless otherwise permitted by the Engineer.

27. All necessary permits including road permit for work within the jurisdiction of the County of Maui shall be obtained by the Contractor at his own cost.

28. Connection to existing guardrail shall be considered incidental to Item No. 606.3110 - Guardrail, Type 3 W-Beam with Strong Post.

29. Removal and disposal of concrete foundation, 25' Steel Rail and Post and backfilling the holes for Breakway Cable Terminal (BCT) shall be paid for under Item No. 202.0200 - Removal of Existing Guardrail.

30. Removal and disposal of Rubrails and W-Beam Sections (flared or rounded) shall be considered incidental to Item No. 202.0200 - Removal of Existing Guardrail.

31. No section where guardrails have been removed shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Furnishing, installing and maintaining physical barriers shall be considered incidental to the various contract items. See Sht. GRD-11 for details.

32. Reset guardrails to distances indicated on plans. Location of new guardrail may or may not be in the same placement as existing guardrail. Distances indicated along guardrail are from face of guardrail to white edge of pavement stripe unless otherwise noted. Where no white edge pavement stripe exist, the distance indicated on the plan is from face of guardrail to the edge of asphalt concrete pavement.

33. Removal and disposal of concrete and steel guardrail post and backfilling of resulting holes shall be considered incidental to Item No. 202.0200 - Removal of Existing Guardrail.

34. Payment of terminal sections shall include steel guardrail and post elements for the entire length of the terminal. Additional items required for construction of the terminal section, including anchor blocks, cables, hardware, etc., shall be incidental to the cost of the terminal section.

35. Submit plan for acceptance by the Engineer with methods that will be used to comply with the first paragraph of 606.03. i.e. Protect work and openings at the end of each work day.

36. Due to cultural and archaeological sensitivity along Hana Highway, the Contractor shall install fencing or netting to prevent any construction related debris from falling down the cliff face below any work area.

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

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
[Signature]
WILSON OKAMOTO CORPORATION LIC. EXP. DATE: APRIL 30, 2020

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>GENERAL NOTES</u>	
<u>HANA HIGHWAY</u> <u>IMPROVEMENTS, PHASE 2C</u> <u>Huelo to Hana</u> <u>Project No. 360AB-01-18</u>	
Scale:	Date: March 2018
SHEET No. <i>N-1</i> OF 7 SHEETS	

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LEGEND

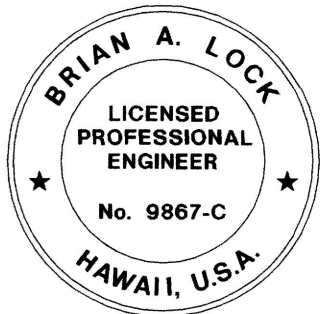
---	e	---	existing electrical line
o	jfh		existing joint pole
o	fp		existing power pole
o	emh		existing electrical manhole
---	t	---	existing telephone line
o	tp		existing telephone pole
o	tmbh		existing telephone manhole
---	sc	---	existing signal corps line
---	sic	---	existing sandwich isles communication line
o	sicmh		existing sandwich isles communication manhole
□	cptb		existing cable tv pullbox
---	c	---	existing cable tv line
---	w12	---	existing 12" water line
o	wmh		existing water manhole
o	av		existing water air valve
o	wv		existing water valve box
□	wm		existing water meter
+	fth		existing fire hydrant
■			New Guardrail
▲			Reset Guardrail
□			existing guardrail
---			existing right-of-way
---	s12	---	existing sewer line and size
o	smh		existing sewer manhole
---	g6	---	existing 6" gas line
o	gv		existing gas valve box
o	gmh		existing gas manhole
⊙	mon.		existing monument

---	d24	---	existing 24" drain line
o	sdmh		existing storm drain manhole
□	gdi		existing grated drop inlet
▤	cb		existing catch basin
▤			New Traffic Sign
▤			existing traffic sign
○			existing highway lighting standard
14.50	/		New Pavement Grade
14.50±	/		existing pavement grade

ABBREVIATIONS

A.C., a.c.	Asphalt Concrete
▤	Baseline
EP	New Edge of Pavement
ES	New Edge of Shoulder
ep	existing edge of pavement
es	existing edge of shoulder
P.C.	Point of Curvature
P.O.C.C.	Point of Compound Curvature
P.C.C.	Portland Cement Concrete
P.I.	Point of Intersection
P.O.C.	Point on Curvature
P.T.	Point of Tangency
R	Radius
R/W	Right-of-Way
R.P.M.	Raised Pavement Marker

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



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
hmk
WILSON OKAMOTO CORPORATION L.C. EXP. DATE APRIL 30, 2020

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEGEND AND ABBREVIATIONS

HANA HIGHWAY
IMPROVEMENTS, PHASE 2C
Huelo to Hana
Project No. 360AB-01-18

Scale: Date: March 2018

SHEET No. N-2 OF 7 SHEETS