

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0300(82)	2004	2	19

STANDARD PLAN NO.	TITLE	DATE
B-01	Notes and Miscellaneous Details	07/01/86
B-02		
B-03	Typical Structure Excavation and Backfill Pay Limits	07/01/86
B-04		
B-05		
B-06	Concrete Box Girder	07/01/86
B-07	Concrete Box Girder	07/01/86
B-08	Concrete Box Girder	07/01/86
B-09		
B-10		
B-11		
B-12	Prestressed Concrete Piles	r07/16/90
B-13	Prestressed Concrete Piles	r07/16/90

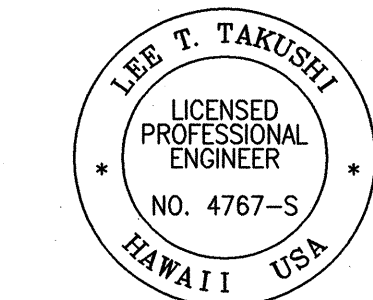
D-01	Chain Link Fence With Toprail	r03/06/87
D-02	Chain Link Fence Without Toprail	r07/26/90
D-03	Wire Fence With Metal Posts	07/01/86
D-04	Typical Details of Curbs and/or Gutters	07/01/86
D-05	Typical Details of Reinforced Concrete Drop Driveway	07/01/86
D-06	Centerline and Reference Survey Monument	07/01/86
D-07	Street Survey Monument	07/01/86
D-08	Landscaping Shrub and Tree Planting	07/01/86
D-09	Field Office	07/01/86
D-10	Field Office	07/01/86
D-11	Project Site Laboratory	07/01/86
D-12	Project Site Laboratory	07/01/86
D-13	Field Office & Project Site Laboratory	07/01/86

H-01	Type A, B, C and D Catch Basin	07/01/86
H-02	Type A1, B1, C1 and D1 Catch Basin	07/01/86
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/86
H-04	Typical Reinforcing Details for Catch Basins	07/01/86
H-05	Type A, B and C Storm Drain Manhole	07/01/86
H-06	Type D and E Storm Drain Manhole	07/01/86
H-07	Type F Storm Drain Manhole	07/01/86
H-08	Catch Basin and Manhole Casting	07/01/86
H-09	Type A-9 and A-9P Frames and Grates	07/01/86
H-10	Type A-9B Frames and Grates	07/01/86
H-11	Type 61614 and 61214 Grated Drop Inlet	07/01/86
H-12	Type 61616 Grated Drop Inlet	07/01/86
H-13	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frame and Grates	07/01/86
H-15	61614B Steel Frame and Grates	07/01/86
H-16	Concrete and Cement Rubble Masonry Structures	r10/16/90
H-17	Inlet Structures	r10/16/90
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	r02/15/91
H-20	Concrete Spillway Inlet	07/01/86
H-21	18" Slotted C.M.P. Drain	07/01/86
H-22	C.M.P. Coupling Details Standard Joint	r10/16/90
H-23	Hat Shaped Coupling Band	r10/16/90

STANDARD PLAN NO.	TITLE	DATE
TE-01	Miscellaneous Sign Details	07/01/86
TE-02	Galvanized Flanged Channel Sign Post Mounting	07/01/86
TE-03	Galvanized Square Tube Sign Post Mounting	07/01/86
TE-04	Regulatory Signs	r09/01/87
TE-05	Warning Signs	07/01/86
TE-06	Miscellaneous Signs	r11/03/89
TE-07	Reserved	07/01/86
TE-08	Construction Signs	r09/01/87
TE-09	Miscellaneous Intersection Signs	r03/06/87
TE-10	Reserved	07/01/86
TE-11	Bike Route Sign and Supplementary Plates	07/01/86
TE-12	State Route Marker and Auxiliary Markers	07/01/86
TE-13	Interstate Route Marker	07/01/86
TE-14	State Route Marker and Border Detail for Guide Signs	07/01/86
TE-15	Route Marker Assemblies	07/01/86
TE-16	Miscellaneous Reflector Markers	07/01/86
TE-17	Type II Object Markers	07/01/86
TE-18	Mileposts	07/01/86
TE-19	Reserved	07/01/86
TE-20	Overhead Sign Supports	07/01/86
TE-21	Overhead Sign Support, Box Truss Type, Aluminum	07/01/86
TE-22	Foundation Details and Schedules	07/01/86
TE-23	Supports for Ground Mounted Guide Sign	r11/03/89
TE-24	Breakaway Sign Supports for Ground Mounted Guide Signs	07/01/86
TE-25	Laminated Aluminum Sign Panels (Overhead)	07/01/86
TE-26	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/86
TE-27	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/86
TE-28	Guide Signs Luminaire Mountings	07/01/86
TE-29	Reserved	07/01/86
TE-30	Raised Pavement Markers and Striping	r05/09/90
TE-31	Miscellaneous Pavement Markings	r05/09/90
TE-32	Miscellaneous Pavement Markings	r05/09/90
TE-33	Miscellaneous Pavement Markings	r11/03/89
TE-34	Reserved	07/01/86
TE-35	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-36	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-37	Reserved	07/01/86
TE-38	Traffic Signal System, Miscellaneous Details	r11/03/89
TE-39	Traffic Signal System, Miscellaneous Details	07/01/86
TE-40	Loop Detectors	r11/03/89
TE-41	Pullboxes	07/01/86
TE-42	Type III Traffic Signal Standard	07/01/86
TE-43	Concrete Pullbox (2' x 3')	07/01/86
TE-44	Reserved	07/01/86

STANDARD PLAN NO.	TITLE	DATE
TE-45	Reserved	07/01/86
TE-46	Reserved	07/01/86
TE-47	Reserved	07/01/86
TE-48	Reserved	07/01/86
TE-49	Reserved	07/01/86
TE-50	Metal Guardrail	r03/06/87
TE-51	Metal Guardrail	r09/01/87
TE-52	Metal Guardrail with Rubrail	r11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	r09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	r11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3, Thrie Beam	r11/03/89
TE-57A	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	r11/03/89
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r11/03/89
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87
TE-64	Portable Concrete Barrier	r11/03/89
TE-65	Guardrail Type 4, Miscellaneous	r09/01/87
TE-66	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	r11/03/89
TE-69	Wheelchair Ramps	r11/03/89

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NO. 1	DRAWN BY	
NO. 2	TRACED BY	
NO. 3	DESIGNED BY	
NO. 4	QUANTITIES BY	
NO. 5	CHECKED BY	



SIGNATURE: [Signature] EXP. DATE OF THE LICENSE: [Blank]  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
STANDARD PLANS SUMMARY	
INTERSTATE ROUTE H2 SEISMIC RETROFIT OF WAHIAWA INTERCHANGE STRUCTURES NO.1 AND 2 AND WAIKAWA INTERCHANGE STRUCTURE NO.5 FEDERAL AID PROJECT NO. BR-0300(82)	
SCALE: AS NOTED	DATE: JUL 2004
SHEET No. 1 OF 1 SHEETS	



Construction Notes:

1. Verify and Check 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 for Direction.
2. No Contractor Shall Perform Any Construction Operation so as to Cause Falling Rock, Soil or Debris in Any Form to Fall, Slide or Flow into Adjoining Properties, Streets or Natural Watercourses. Should Such Violations Occur, the Contractor May Be Cited and the Contractor Shall Immediately Take All Remedial Actions Necessary.
3. The Contractor Shall Be Responsible for Conformance with the Applicable Provisions of the Water Quality and Water Pollution Control Standards Contained in Hawaii Administrative Rules, Title 11, Chapter 54, "Water Quality Standards" and Title 11, Chapter 55, "Water Pollution Control", as well as Chapter 14 of the Revised Ordinances of Honolulu, as Amended. Best Management Practices Shall Be Employed at All Times During Construction.
4. In the Event Any Artifacts or Human Remains are Uncovered During Construction Operations, the Contractor Shall Immediately Suspend Work and Notify the Honolulu Police Department, the State Department of Land and Natural Resources--Historic Preservation Division (692-8015).
5. The Contractor Shall Be Responsible for Replacing/Reconstructing All Concrete Curbs and Gutters, Concrete Swales, Driveways and Sidewalks Damaged During Construction at Their Expense.
6. Existing Topographic Data was Taken from As-Built Plans. The Existence and Location of Utilities and Structures as Shown on the Plans are from the Latest Available Data but is not Guaranteed as to the Accuracy or the Encountering of Other Obstacles During the Course of the Work. The Contractor Shall Not Assume that Where No Utilities or Structures are Shown, that None Exist.

Notes for Construction within State Right-of-Way:

1. Construction and Restoration of all Existing Highway Facilities within the State's Right-of-Way, Including the Legal Relations and Responsibility to the Public, Shall Be in Accordance with the Current Standard Specifications for Road, Bridge and Public Works Construction, and the Specifications for Installation of Miscellaneous Improvements within State Highways, of the State Highways Division.
2. Work May Be Performed Only Between the Hours of 8:30 a.m. and 3:00 p.m., Monday Through Friday, Except Holidays, Unless Otherwise Permitted by the District Engineer.
3. All lanes shall be open to traffic and allow traffic to flow at the normal posted speed limit during morning peak hours from 6:30 a.m. to 8:30 a.m., during afternoon peak hours from 3:30 p.m. to 6:00 p.m., and during off work hours. The Contractor may close only one lane of traffic from 8:30 a.m. to 3:30 p.m.. Failure of the Contractor to open all lanes to traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.08 of the Special Provisions.

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 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, Part VI - Standards and Guides for Traffic Controls for Street and Highway Construction, Maintenance, Utility and Incident Management Operations."
5. Lane Closures Shall Conform to the Traffic Control Plan Incorporated Into These Construction Plans and Must Be Approved by the Division.
6. 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 District Engineer.
7. Existing Drainage Systems Shall Be Functional at All Times.
8. The Contractor Shall Exercise Care to Minimize Damages to Existing Highway Improvements. All Damages Shall Be Repaired by the Contractor, at His Expense, to the Satisfaction of the District Engineer.
9. At the end of each working day, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic as directed by the District Engineer.
10. All Regulatory, Guide, and Construction Signs and Barricades Shall Have a High-Intensity Reflective Background.
11. Where Pedestrian Walkways Exist They Shall Be Maintained in a Safe and Passable Condition, or Other Facilities for Pedestrians Shall Be Provided. Passages Between Walkways at Intersections Shall Likewise Be Provided. All Walkways Shall Conform to ADA Requirements.
12. The Contractor Shall Reference, to the Satisfaction of the District Engineer, All Existing Traffic Signs, Posts, and Pavement Markings Prior to the Commencement of Construction. The Contractor Shall Replace or Repair All Traffic Signs, Posts, and Pavement Markings Disturbed by His Activities, at His Expense, Unless Directed Otherwise by the District Engineer or His Representative.
13. The Contractor Shall Exercise Care when Performing Work in or Adjacent to the State Highway Right-of-Way. Damages to the Existing Facilities Shall Be Immediately Reported to the Respective Utility Companies, and/or City or State Agencies. The Repair Work Shall Be Done at the Contractor's Expense.
14. The Contractor Shall Notify the State Highways' Highway Lighting Supervisor (837-8056), Three (3) Working Days Prior to Commencing Work.
15. Contractor Shall Exercise Extreme Caution to Preserve Benchmarks (Survey Monuments), Whenever the Center of a Survey Monument is Less Than Three (3) Feet Away from the Edge of Construction, the Contractor Shall Retain a Licensed Land Surveyor to Reference the Location of Said Survey Monument.

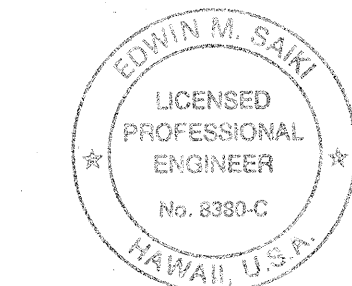
16. Benchmarks That Are Disturbed or Destroyed Shall Be Restored Under a Licensed Land Surveyor's Direction. Copies of Field Notes, Descriptions and New Values of the Replaced Benchmark Shall Be Sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for Review and Approval Before Commencement of Construction.

Public Health Safety and Convenience Notes:

1. Contractor Shall Observe and Comply With All Federal, State, and Local Laws Required for the Protection of Public Health, Safety and Environmental Quality.
2. The Contractor at His/Her Expense, Shall Keep the Project Area and Surrounding Area Free from Rubbish, Dust, Noise, Erosion, etc. The Work Shall Be Done in Conformance With the Air and Water Pollution Control Standards and Regulations of the State Department of Health.
3. The Contractor's Attention is Directed to Chapter 46, Public Health Regulations, Department of Health, State of Hawaii, "Community Noise Control," in Which Maximum Permissible Noise Levels Have Been Set. If the Construction Work Requires a Permit from the Director of Health, the Contractor Shall Obtain a Copy of Chapter 46 and Become Familiar With the Noise Level Restrictions and the Procedures for Obtaining a Permit for the Construction Activities. Application and Information on Variances are Available from the Environmental Protection and Health Services Division, 1250 Punchbowl St., Honolulu, Hi 96813 or By Telephone (548-6455).

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HAWAII	HAW.	BR-0300(82)	2004	3	19

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL	
FILED	
NO.	



SIGNATURE: *Edwin M. Saito* 4/30/06  
EXP. DATE OF THE LICENSE  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>WAIAWA STRUCTURE NO. 1</b> <b>WAIAWA STRUCTURE NO. 5</b> <b>CIVIL NOTES</b> <b>INTERSTATE ROUTE H2 SEISMIC RETROFIT OF</b> <b>WAIAWA INTERCHANGE STRUCTURE NO. 1</b> <b>WAIAWA INTERCHANGE STRUCTURE NO. 5</b> <b>FEDERAL AID PROJECT NO. BR-0300(82)</b> SCALE: AS NOTED DATE: MAR 2004	
SHEET No. C1 OF 9 SHEETS	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0300(82)	2004	4	19

**Best Management Practices (BMPS):**

- Measures to Control Erosion and Other Pollutants Shall Be in Place Before Any Trenching Work is Initiated. These Measures Shall Be Properly Constructed and Maintained Throughout the Construction Period.
- All Control Measures Shall Be Checked and Repaired as Necessary.

**Water Pollution and Erosion Control Notes:**

**A. General:**

- The Contractor is Reminded of the Requirements of Section 209 – Water Pollution and Erosion Control, in the Special Provisions. Section 209 Describes but is Not Limited to: Submittal Requirements; Scheduling of a Water Pollution and Erosion Control Conference with the Engineer; Construction Requirements; Method of Measurement; and Basis of Payment.
- The Contractor Shall Follow the Guidelines in the "Best Management Practices Manual for Construction Sites in Honolulu", Dated May 1999 in Developing, Installing and Maintaining the Best Management Practices (BMP) for the Project.
- The Engineer May Assess Liquidated Damages of up to \$27,500 for Noncompliance of Each BMP Requirement and Each Requirement Stated in Section 209, for Every Day of Noncompliance There is No Maximum Limit on the Amount Assessed Per Day.
- The Engineer Will Deduct the Cost from the Progress Payment for All Citations Received by the Department for Noncompliance, or the Contractor Shall Reimburse the State for the Full Amount of the Outstanding Cost Incurred by the State.

**B. WASTE DISPOSAL:**

**1. Waste Materials**

All Waste Materials Shall Be Collected and Stored in a Securely Lidded Metal Dumpster. The Dumpster Shall Meet All Local and State Solid Waste Management Regulations. All Trash and Construction Debris from the Site Shall Be Deposited in the Dumpster. The Dumpster Shall Be Emptied a Minimum of Twice Per Week or as Often as Deemed Necessary. No Construction Waste Materials Shall Be Buried On-Site. The Contractor's Supervisory Personnel Shall Be Instructed Regarding the Correct Procedure for Waste Disposal. Notices Stating these Practices Shall Be Posted in the Office Trailer and the Contractor Shall Be Responsible Seeing that these Procedures are Followed.

**2. Hazardous Waste**

All Hazardous Waste Materials Shall Be Disposed of in the Manner Specified by Local or State Regulations or by the Manufacturer. The Contractor's Site Personnel Shall Be Instructed in these Practices and Shall Be Responsible for Seeing that these Practices are Followed.

**3. Sanitary Waste**

All Sanitary Waste Shall Be Collected from the Portable Units a Minimum of Once Per Week, or as Required.

**C. Erosion and Sediment Control Inspection and Maintenance Practices**

- All Control Measures Shall Be Inspected at Least Once Each Week and Following Any Rainfall Event of 0.5 Inches or Greater.
- All Measures Shall Be Maintained in Good Working Order. If Repair is Necessary, it Shall Be Initiated within 24 Hours After the Inspection.
- Built-Up Sediment Shall Be Removed from Silt Fence when it has Reached One-Third the Height of the Fence.
- Silt Screen or Fence Shall Be Inspected for Depth of Sediment, Tears, to Verify that the Fabric is Securely Attached to the Fence Posts or Concrete Slab and to Verify that the Fence Posts are Firmly in the Ground. The Bottom of the Silt Screen Shall Be Inspected and Verified that it is Buried a Minimum of 6 Inches Below the Existing Ground.
- Temporary and Permanent Seeding and Planting Shall Be Inspected for Bare Spots, Washouts and Healthy Growth.
- A Maintenance Inspection Report Shall Be Made Promptly After Each Inspection by the Contractor.
- The Contractor Shall Select a Minimum of Three Personnel Who Shall Be Responsible for Inspections, Maintenance and Repair Activities and Filling out the Inspection and Maintenance Report.
- Personnel Selected for the Inspection and Maintenance Responsibilities Shall Receive Training from the Contractor. They Shall Be Trained in All the Inspection and Maintenance Practices Necessary for Keeping the Erosion and Sediment Controls Used On-Site in Good Working Order.

**D. Good Housekeeping Best Management Practices:**

**1. Materials Pollution Prevention Plan**

- a. Applicable Materials or Substances Listed Below are Expected to be Present On-Site During Construction. Other Materials and Substances Not Listed Below Shall Be Added to the Inventory.

Concrete	Fertilizers
Detergents	Petroleum Based Products
Paints (Enamel and Latex)	Cleaning Solvents
Metal Studs	Wood
Tar	Masonry Block

- b. Material Management Practices Shall Be Used to Reduce the Risk of Spills or Other Accidental Exposure of Materials and Substances to Storm Water Runoff. An Effort Shall Be Made to Store Only Enough Product as is Required to do the Job.

- c. All Materials Stored On-Site Shall Be Stored in a Neat, Orderly Manner in their Appropriate Containers and if Possible Under a Roof or Other Enclosure.

- d. Products Shall Be Kept in their Original Containers with the Original Manufacturer's Label.

- e. Substances Shall Not Be Mixed with One Another Unless Recommended by the Manufacturer.

- f. Whenever Possible, a Product Shall Be Used Up Completely Before Disposing of the Container.

- g. Manufacturer's Recommendations for Proper Use and Disposal Shall Be Followed.

- h. The Contractor Shall Conduct a Daily Inspection to Ensure Proper Use and Disposal of Materials On-Site.

**2. Hazardous Material Pollution Prevention Plan**

- Products Shall Be Kept in Original Containers Unless they are Not Resealable.
- Original Labels and Material Safety Data Sheets (MSDS) Shall Be Retained.
- Surplus Products Shall Be Disposed of According to Manufacturers' Instructions or Local and State Recommended Methods.

**3. On-Site and Off-Site Product Specific Plan**

- a. The Following Product Specific Practices Shall Be Followed On-Site:

**1) Petroleum Based Products:**

All On-Site Vehicles Shall Be Monitored for Leaks and Receive Regular Preventive Maintenance to Reduce the Chance of Leakage. Petroleum Products Shall Be Stored in Tightly Sealed Containers which are Clearly Labeled. Any Asphalt Substances Used On-Site Shall Be Applied According to the Manufacturers' Recommendation.

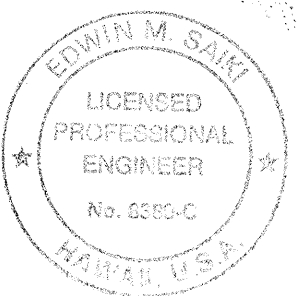
**2) Paints:**

All Containers Shall Be Tightly Sealed and Stored when Not Required for Use. Excess Paint Shall Not Be Discharged to the Highway Drainage System but Shall Be Properly Disposed of According to Manufacturers' Instructions or State and Local Regulations.

**3) Fertilizers:**

Fertilizers Used Shall Be Applied Only in the Minimum Amounts Recommended by the Manufacturer. Once Applied, Fertilizer Shall Be Worked into the Soil to Limit Exposure to the Storm Water. Storage Shall Be in a Covered Shed. The Contents of Any Partially Used Bags of Fertilizer Shall Be Transferred to a Sealable Plastic Bin to Avoid Spills.

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



SIGNATURE: *Edwin M. Saint* 4/30/04  
EXP. DATE OF THE LICENSE  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>WAIHAWA STRUCTURE NO. 1</b> <b>WAIHAWA STRUCTURE NO. 5</b> <b>CIVIL NOTES</b> <b>INTERSTATE ROUTE H2 SEISMIC RETROFIT OF</b> <b>WAIHAWA INTERCHANGE STRUCTURE NO. 1</b> <b>WAIHAWA INTERCHANGE STRUCTURE NO. 5</b> <b>FEDERAL AID PROJECT NO. BR-0300(82)</b> SCALE: AS NOTED DATE: MAR 2004	
SHEET No. C2 OF 9 SHEETS	

4) Concrete Trucks:  
Concrete Trucks Shall Be Allowed to Wash Out or to Discharge Drum Wash Water only at a Designated Site. Water Shall Not Be Discharged in the Highway Drainage System or Waters of the United States. The Contractor Shall Contact Drinking Water Branch, Department of Health at 586-4258 to Receive Permission to Designate a Disposal Site. The Contractor Shall Clean Disposal Site as Required or as Requested by the Owner's Representative.

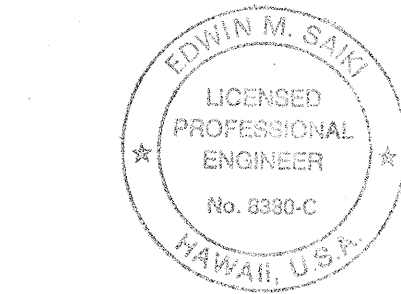
General Notes for Traffic Control Plan

- The Permittee Shall Make Minor Adjustments at Intersections, Driveways, Bridges, Structures, etc., to Fit Field Conditions.
- Cones or Delineators Shall Be Extended to a Point Where They Are Visible to Approaching Traffic.
- Traffic Control Devices Shall Be Installed Such That the Sign or Device Farthest from the Work Area Shall Be Placed First. The Others Shall then Be Placed Progressively Toward the Work Area.
- Regulatory and Warning Signs within the Construction Zone that are in Conflict With the Traffic Control Plans Shall Be Removed or Covered. All Signs Shall Be Restored Upon Completion of the Work.
- Flaggers and/or Police Officers Shall Be in Sight of Each Other or in Direct Communication at All Times.
- Sign Spacing (L), Taper Lengths (T) and Spacing of Cones or Delineators Shall Be as Shown in Table 1, Unless Otherwise Noted on the Traffic Control Plans.
- All Traffic Lanes Shall Be a Minimum of 10 Feet Wide.
- All Construction Warning Signs Shall Be Promptly Removed or Covered Whenever the Message is Not Applicable or Not in Use.
- The Backs of All Signs Used for Traffic Control Shall Be Appropriately Covered to Preclude the Display of Inapplicable Sign Messages (i.e., when Signs Have Messages on Both Faces).
- At the End of Each Day's Work or as Soon as the Work is Completed, the Permittee Shall Remove All Traffic Control Devices No Longer Needed to Permit Free and Safe Passage, of Public Traffic. Removal Shall Be in the Reverse Order of Installation.
- Replace Permanent Pavement Markings and Traffic Signs Upon Completion of Each Phase of Work.
- All Work Zone Traffic Control Devices Shall Comply With the "Statewide Guideline for Work Zone Traffic Control Devices" Dated September 13, 2000.

Table 1 for Traffic Control Plan

Posted Speed Limit (M.P.H.)	Sign Spacing (D) (Feet)	Taper Length (T) (Feet)		Longitudinal Buffer Space (B) (Feet)	Spacing of Cones or Delineators (Feet)		
		W = 12' or Less	W=Greater than 12"		Taper	Tangent	Work Area
20	250	200	W X 17	35	20	20	10
25	250	200	W X 17	55	25	25	10
30	250	250	W X 20	85	30	30	10
35	250	250	W X 20	120	35	35	10
40	500	350	W X 30	170	40	40	10
45	500	550	W X 45	220	45	45	10
50	1000	600	W X 50	280	50	50	10
55	1000	700	W X 55	335	55	55	10
Notes: W = Width of Lane, Shoulder, or Offset							

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



SIGNATURE: *[Signature]* 4/30/06  
EXP. DATE OF THE LICENSE  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WAHIAWA STRUCTURE NO. 1 WAIAWA STRUCTURE NO. 5 CIVIL NOTES INTERSTATE ROUTE H2 SEISMIC RETROFIT OF WAIAWA INTERCHANGE STRUCTURE NO. 1 WAIAWA INTERCHANGE STRUCTURE NO. 5 FEDERAL AID PROJECT NO. BR-0300(82) SCALE: AS NOTED DATE: MAR 2004	
SHEET No. C3 OF 9 SHEETS	