

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	2	88

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 Basin	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 Sections 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 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	Barracades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	r07/18/94
TE-69	Wheelchair Ramps	r07/18/94

07/18/94	REVISED TE-68 & TE-69
02/15/91	REVISED H-19
10/16/90	REVISED H-16, H-17, H-22 & H-23
07/26/90	REVISED D-02
07/16/90	REVISED B-12, B-13
05/09/90	REVISED TE-30, TE-31 & TE-32
11/03/89	REVISED TE-06, TE-23, TE-30, TE-31, TE-32, TE-33, TE-38, TE-40, TE-52, TE-54, TE-55, TE-57, TE-59, TE-61, TE-64, TE-68 & TE-69 ADDED TE-57A
09/01/87	REVISED TE-04, TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69
03/06/87	REVISED D01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64

NOTE:
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A "●"
NEXT TO THE STANDARD PLAN NO. (FOR EXAMPLE: D-07 ●)

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

INTERSTATE ROUTE H-1 REHABILITATION
Vicinity Of Makakilo Interchange
Project No. H1A-01-02M

Scale: As Noted Date: April 2003

SHEET No. T-2 OF 2 SHEETS

ORIGINAL PLAN No.

SURVEY PLOTTED BY: S. J. H. DATE: 6/80

DESIGNED BY: C. K. H. H. 6/80

TRACED BY: C. K. H. H. 6/80

NOTE BOOK

QUANTITIES BY: C. K. H. H. 6/80

CHECKED BY: C. K. H. H. 6/80

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	3	88

GENERAL NOTES

- The scope of work for this project consist of replacing the existing A.C. pavement with Portland Cement Concrete at Makakilo Interchange (Ramps MA & MB); upgrading guardrails, end treatments, bridge endposts, drainage structures, and curb ramps; replacing existing highway lighting system and installing expansion joints, reflector markers, traffic signs, and pavement markings; installing concrete barrier, and removing existing concrete curb.
- 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.
- The exact locations and limits or areas to be filled with leveling course, reconstructed and cold planed shall be as shown on the plans and verified in the field by the Engineer.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- Smooth riding connections shall be constructed at all limits of re-surfacing, 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.
- Existing drainage system will be functional at all times during construction. The Engineer will pay for the accepted culvert cleaning on a force account basis. The price includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work, including cleaning, removing, and disposing of silt, trash, and vegetation growth from existing culverts and adjoining drainage structures.
- The Contractor shall provide for access to and from all existing side streets at all times.
- The Contractor shall vacuum saw-cut "sludge" from the roadway. All saw-cutting work shall be considered incidental to the various contract items and will not be paid for separately.
- The Contractor at his own expense, shall keep the project area and surrounding area from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Department of Health. If water is to be used for dust control, the Contractor is to vacuum the excess water so as to prevent it from entering the storm drains, or provide measures to ensure water entering the storm drains meet NPDES standards.
- The Contractor shall be solely responsible for the protection of adjacent properties, utilities, and existing structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense and to the satisfaction of the Engineer.
- Removal and disposal of any debris shall be considered incidental to their respective bid items. The Contractor shall clean and remove any accumulation of aggregate 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.
- The existence and location of underground utilities, manholes, monuments, structures and bridge utilities 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 be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- The Contractor will immediately report to the Engineer and utility companies damage discovered or caused by his work to any utilities.
- Prior to pavement surfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade. This work shall be considered incidental to the various contract items.

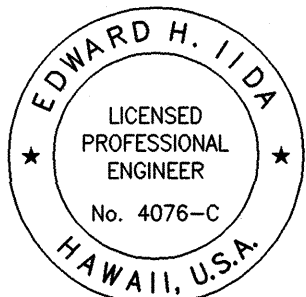
- The coordinate system for the Topographic Survey is referenced to "Kapuai New". The elevations are referenced to Mean Sea Level and based on the State Survey Monument "SS 9-5" with an elevation of 155.87. The topographic survey was completed by M&E Pacific on April 2003.
 - The Contractor shall obtain all necessary permits (grading, road use, etc.) prior to the start of physical work. Cost shall be considered incidental to the various contract items.
 - The Contractor's attention is directed to the following sections of the Special Provisions: Subsection 105.06 - Coordination Between Contractors; Subsection 107.13 - Public Convenience and Safety; Susection 107.21 - Contractor's Responsibility for Utility Property and Services; and Section 645 - Traffic Control.
- GENERAL NOTES FOR TRAFFIC CONTROL PLAN
- The Contractor shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
 - All work zone traffic control devices shall comply with the "Statewide Guidance For Work Zone Traffic Control Devices" Dated September 13, 2000.
 - 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.
 - Sign spacing (L), taper lengths (T) and spacings of cones or delineators shall be as noted on the traffic control plans, or special provisions.
 - 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. This work shall be considered incidental to to the various contract items and will not be paid for separately.
 - All regulatory, guide, and construction signs and barricades shall have a high-intensity reflective background and coform with the Manual on Uniform Traffic Control Devices (MUTCD).
 - All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
 - The back of all signs used for traffic control shall be marked with the sign owner's name.
 - Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
 - The permittee shall install a flashing arrow signal as shown on the traffic control plans, unless otherwise authorized by the Engineer.
 - All traffic lanes shall be a minimum of 12 feet wide.
 - 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 temporary pavement markings and traffic signs upon completion of each phase of work.

ABBREVIATIONS

A.C.	ASPHALTIC CONCRETE	MP	MILE POST
APPROX.	APPROXIMATE,	MPH	MILES PER HOUR
	APPROXIMATELY		
@	AT	MIN	MINIMUM
B	BASELINE	MISC	MISCELLANEOUS
BVC	BEGIN OF	N	NORTH
	VERTICAL CURVE	NTS	NOT TO SCALE
BC	BOTTOM OF	NO	NUMBER
	CURB	O/S	OFFSET
CIG	CHANGE IN GRADE	OC	ON CENTER
CL	CENTERLINE	OD	OUTSIDE DIAMETER
CONC.	CONCRETE	PAV'T	PAVEMENT
CONN.	CONNECT,	PC	POINT OF CURVATURE
	CONNECTION		
CONT.	CONTINUE,	PCC	PORTLAND CEMENT CONCRETE
	CONTINUOUS		
CY	CUBIC YARD	PCC	POINT OF
DET	DETAIL		COMPOUND CURVE
DIA, Ø	DIAMETER	PI	POINT OF INTERSECTION
DWG	DRAWING		
DBL	DOUBLE	PIVC	POINT INTERSECTION
EA	EACH		VERTICAL CURVE
E	EAST	POC	POINT OF CURVE
EP	EDGE OF PAVEMENT	PT	POINT OF TANGENT
ES	EDGE OF SHOULDER	R	RADIUS
ELEV, EL	ELEVATION	RPM	RAISED PAVEMENT MARKERS
EMB	EMBANKMENT		
EVC	END OF VERTICAL CURVE	REQ'D	REQUIRED
		REV	REVISION/REVISED
EXC	EXCAVATE		
EXIST	EXISTING		
EQ	EQUAL	RT, R	RIGHT
EXT	EXTENSION	ROW	RIGHT OF WAY
FT	FOOT, FEET		
GRP	GROUTED RUBBLE PAVEMENT	SHT	SHEET
		SIGMH	SIGNAL
HAW	HAWAII		MANHOLE
HWY	HIGHWAY	S	SOUTH, SLOPE, SEWER
HORIZ	HORIZONTAL		
IN	INCH	SF	SQUARE FOOT
INV	INVERT	SY	SQUARE YARD
LT	LEFT	STD	STANDARD
LF	LINEAR FOOT	STA	STATION
MAX	MAXIMUM	STRUCT	STRUCTURAL
MSL	MEAN SEA LEVEL	TI	TECHNICAL INFEASIBILITY
		TYPICAL	TYPICAL
		UP	UTILITY POLE
		VERT	VERTICAL
		VC	VERTICAL CURVE
		W/	WITH

LEGEND

	New Concrete/ PCC
	A.C. Pavement Reconstruction Areas
	Existing Concrete
	Existing Traffic Sign
	New Traffic Sign
	Exist Metal Guardrail
	New Metal Guardrail



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Edward H. Iida
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

INTERSTATE ROUTE H-1 REHABILITATION
Vicinity Of Makakilo Interchange
Project No. H1A-01-02M

Scale: As Noted Date: April 2003

SHEET No. C-1 OF 42 SHEETS

SURVEY PLOTTED BY	DATE
DRN BY	6/03
DESIGNED BY	6/03
QUANTITIES BY	6/03
CHECKED BY	6/03
ORIGINAL PLAN	
NOTE BOOK	
No.	

WATER POLLUTION AND EROSION CONTROL NOTES:

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	4	88

A. GENERAL:

- The Contractor is reminded of the requirements of Section 209 – Water Pollution and Erosion Control, in the "Hawaii Standard Specifications for Road, Bridge and Public Works Construction". 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 non-compliance of each BMP requirement and each requirement stated in Section 209, for every day of non-compliance. 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 non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.

B. WASTE DISPOSAL:

- 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 is deemed necessary. No construction waste materials shall be buried onsite. 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 for seeing that these procedures are followed.
- 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.
- 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.
- 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.

7. 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.

8. 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 onsite 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 onsite 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. All hazardous liquid materials stored onsite shall be stored in a neat, orderly manner in their appropriate containers, within spill pans or a berm that is lined with a non-permeable material, and under a roof or other covered enclosure.

C. All materials stored onsite 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 onsite.

2. Hazardous Material Pollution Prevention Plan

A. Products shall be kept in original containers unless they are not resealable.

B. Original labels and materials safety data sheets (MSDS) shall be retained.

C. Surplus products shall be disposed of according to manufacturer's instructions or local and State recommended methods.

3. Onsite and Offsite Product Specific Plan

A. The following product specific practices shall be followed.

1) Petroleum Based Product:

All onsite 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 onsite shall be applied according to the manufacturer's recommendation.

2) 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 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.

3) 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 manufacturer's instructions or State and local regulations.

4) Concrete Trucks:

Concrete trucks shall be allowed to wash out or 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.

B. Vehicle Tracking:

1) A Stabilized construction entrance (SCE) shall be provided to help reduce vehicle tracking of sediments onto paved roads, and shall be considered incidental to the various contract items.

2) The paved street adjacent to the SCE shall be cleaned daily or as required to remove any excess mud, cold planed materials, dirt or rock tracked from the site, and shall be considered incidental to the various contract items.

3) Dump trucks hauling material from the construction site shall be covered with a tarpaulin.

4) Dump trucks hauling material to the construction site shall be covered with a tarpaulin.

4. Spill Control Plan

A. A spill prevention plan shall be posted to include measures to prevent and clean up each spill.

B. The Contractor shall be the spill prevention and cleanup coordinator. The Contractor shall designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel shall be posted in the material storage area and in the office trailer onsite.

C. Manufacturer's recommended methods for spill cleanup shall be clearly posted and site personnel shall be made aware of the procedures and the location of the information and cleanup supplies.

D. Materials and equipment necessary for spill cleanup shall be kept in the material storage area onsite.

E. All spills shall be cleaned up immediately after discovery.

F. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

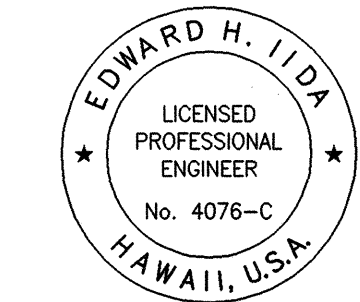
G. Spills of toxic hazardous material shall be reported to the appropriate State or local government agency, regardless of the size.

5. Permit Requirements

A. The contractor shall comply with all the conditions stated in the following permits:

- DOH NPDES permit for construction activities.
- DOH Noise Variance for nighttime work.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4/03
DESIGNED BY	C. MITSUNAGA	4/03
QUANTITIES BY	C. MITSUNAGA	4/03
CHECKED BY	E. BA	4/03



THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION
Edward H. Iida
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**WATER POLLUTION AND
EROSION CONTROL NOTES**
INTERSTATE ROUTE H-1 REHABILITATION
Vicinity Of Makakilo Interchange
Project No. H1A-01-02M
Scale: As Noted Date: April 2003
SHEET No. C-2 OF 42 SHEETS