

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	560A-02-09M	2009	ADD. 3	18

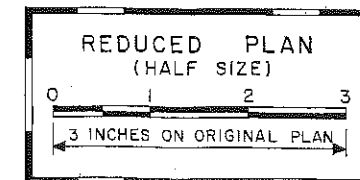
- The scope of work for this project includes reconstructing weakened pavement areas; constructing drainage systems; hydro-mulch seeding; and dressing of shoulders.
- The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
- The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
- 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 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 be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- The Contractor shall notify One Call (Ph. 811) for utility toning a minimum of 3 weeks prior to starting work.
- The exact locations and limits or areas to be pulverized, excavated, and reconstructed shall be determined in the field by the Engineer.
- The Contractor is notified of the existence of weight-posted one-lane bridges along Kuhio Highway (Route 560). Current weight limits are 15 tons at Hanalei Bridge and 8 tons for 6 bridges between Hanalei and Wainiha. Prior to crossing these bridges, the Contractor shall apply for an oversize/overweight/vehicle/load permit for each affected vehicle, equipment, and/or load at the State Highways Division office (ph. 241-3000). The State reserves the right to disallow crossing of these bridges by loads exceeding the posted weight limits.
- All lanes shall be open to traffic during 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. Only one lane of highway shall be closed at any other time. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.09 of the Special Provision.
- Prior to beginning pavement pulverizing, the Contractor shall be responsible for locating, preserving and marking all utility & highway facilities and ensure all facilities match new finished pavement grade.
- The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to pulverizing existing asphalt concrete pavement. This work shall be considered incidental to the various contract items and will not be paid for separately.
- All excess Cement-Treated Granular Subgrade (Recycled) shall become the property of the State. The Contractor shall deliver these materials to a location as directed by the Engineer. This work shall be considered incidental to Item No. 307.0100 and will not be paid for separately.
- The Contractor shall provide 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.
- Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
- Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
- After completion of pavement reconstruction, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within the reconstructed areas). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas.

- 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 new Asphalt concrete pavement, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans.
- Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping, and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from Excavation for Drainage System, including topsoil and base material therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. Concrete chunks, and Asphalt concrete removed from reconstruction shall not be used for dressing of shoulder, sidewalk or bus turnout. This work shall be considered incidental to the various contract items.
- 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. 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.
- All existing pavement striping and raised pavement markers (i.e. double 4-inch yellow stripe, 4-inch white edge stripe, 8-inch white edge stripe near bridges, Type C marker, Type D marker etc.) in the vicinity of areas to be reconstructed, shall be carefully noted and a list provided to the Engineer prior to beginning pavement pulverizing operations. (See also Note No. 11.) All pavement markings damaged or obliterated by the Contractor's operations shall be replaced in kind with new striping and markers. For this project, thermoplastic extrusion only shall be acceptable for use. Temporary and permanent striping and raised pavement markers shall be installed in accordance with Section 629 of the "Hawaii Standard Specifications for Road and Bridge Construction, 2005". This work shall be considered incidental to Hot Mix Asphalt Pavement, Mix No. IV and will not be paid for separately.
- 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 Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, 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.
- Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
- 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 State Highways Division at telephone no. 241-3000.
- Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are uncovered during construction operations, the contractor shall immediately suspend work and notify the State Department of Land and Natural Resources - Historic Preservation Division (ph. 652-1510 or 808-692-8015), and Kauai Police Department (ph. 241-1711).

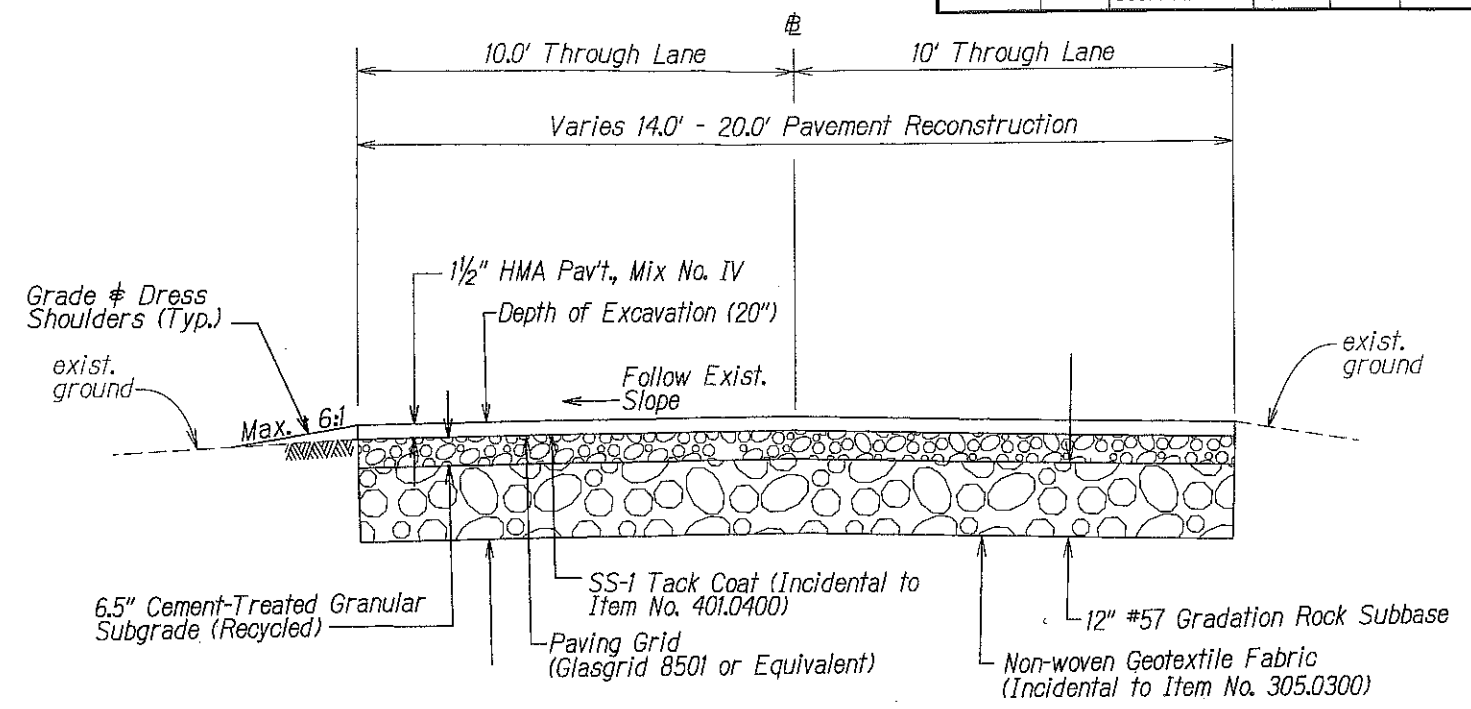
- The project site is traversed by one endangered endemic bird, the Hawaiian Petrel, and one threatened endemic bird, the Newell's Shearwater. To reduce the possibility that these nocturnal flying birds may become disoriented and downed by construction lighting, nighttime construction will be allowed between January and July only and prohibited between mid-August to mid-December.
- Prior to approval of nighttime construction work, the Contractor shall submit for the Engineer's acceptance a Seabird Response Plan, which includes:
 - Response plan for circling/downed birds when lights may be turned off temporarily if it is safe for workers and if birds are circling lights.
 - Seabird awareness training for staff (this should be verified on their personnel file).
 - A list of qualified bird rescue contact(s) such as the Save Our Shearwaters program (SOS), a local vet or rehabilitation center, or Hawaii Division of Forestry and Wildlife (DOFAW) representative.
 - Maintaining a pet carrier on site at all times with instruction on how and where to keep recovered birds.
 - Logging seabird incidences that are submitted to the U.S. Fish and Wildlife Service and DOFAW within 48 hours of discovery.

LEGEND

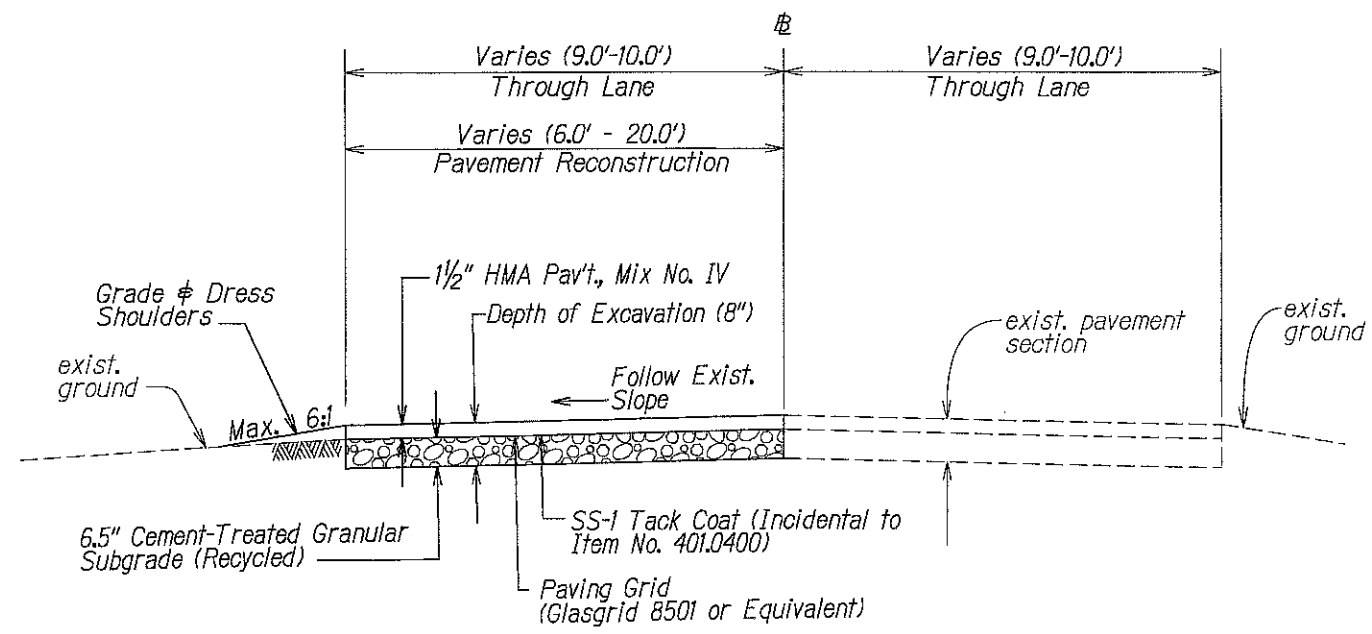
	Reconstruction Areas		Existing Metal Guardrail
	Drainage Improvement Limits		New Metal Guardrail
	Concrete Pavement Areas		Adjusted and/or Relocated Metal Guardrail
	Existing Power Pole		Existing Fire Hydrant
	Existing Electric Manhole		Existing Sewer Line
	Adjusted Elec. MH Frame/Cover		New 12" Sewer Line
	Existing Electric Pullbox		Existing Sewer Manhole
	Existing Telephone Manhole		Adjusted Sewer Manhole
	Adjusted Tel. MH Frame/Cover		New Sewer Manhole
	Existing Telephone Pullbox		Existing Monument
	Existing 12" Water Line		Adjusted Monument
	Existing Water Manhole		New Monument
	Adjusted Water MH Frame/Cover		Existing 24" Drain Line
	Existing Water Air Valve		Existing Storm Drain Manhole
	Adjusted Water Air Valve		Adjusted Storm Drain Manhole
	Existing Water Valve Box		Existing Grated Drop Inlet
	Adjusted Water Valve Box		New Grated Drop Inlet
	Existing Water Meter Box		Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate
	Adjusted Water Meter Box		
	New Type "X" Water Meter Box		
	Existing Traffic Sign		
	New Traffic Sign		
	Existing Sandwich Isles Communications (SIC) Fiber Optic Duct Line		



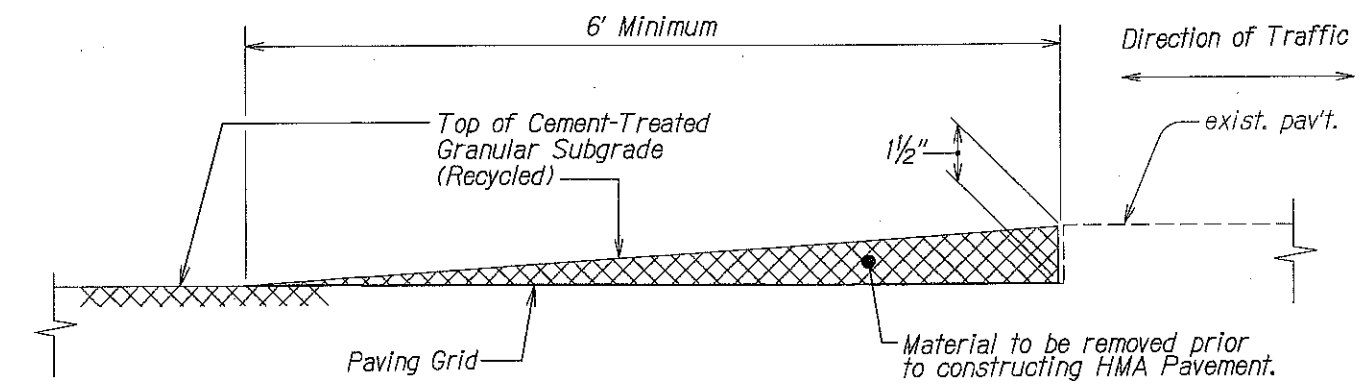
7/16/09	Replaced Plan Sheet No. 3
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GENERAL NOTES AND LEGEND	
KUHIO HIGHWAY RESURFACING PAVEMENT RECONSTRUCTION & DRAINAGE IMPROVEMENTS	
Haena to Princeville	
Project No. 560A-02-09M	
Date: May 2009	
SHEET No. 1 OF 1 SHEETS	



TYPICAL SECTION
 Sta. 64+00 to Sta. 65+44 & Sta. 66+00 to Sta. 70+10
 Not to Scale



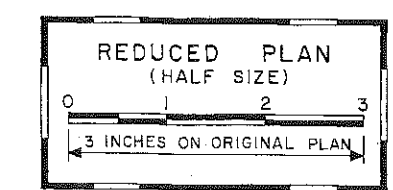
TYPICAL SECTION
 Not to Scale



TEMPORARY TRANSITION AT RECONSTRUCTION AREAS
 Not to Scale

Note: Contractor shall construct temporary pavement taper to prevent sharp pavement drop-offs at all reconstructed areas. Prior to final Hot Mix Asphalt Pavement, Mix No. IV placement, temporary pavement taper shall be removed at no cost to the State. Install warning signs for uneven pavement, at the direction of the State representative.

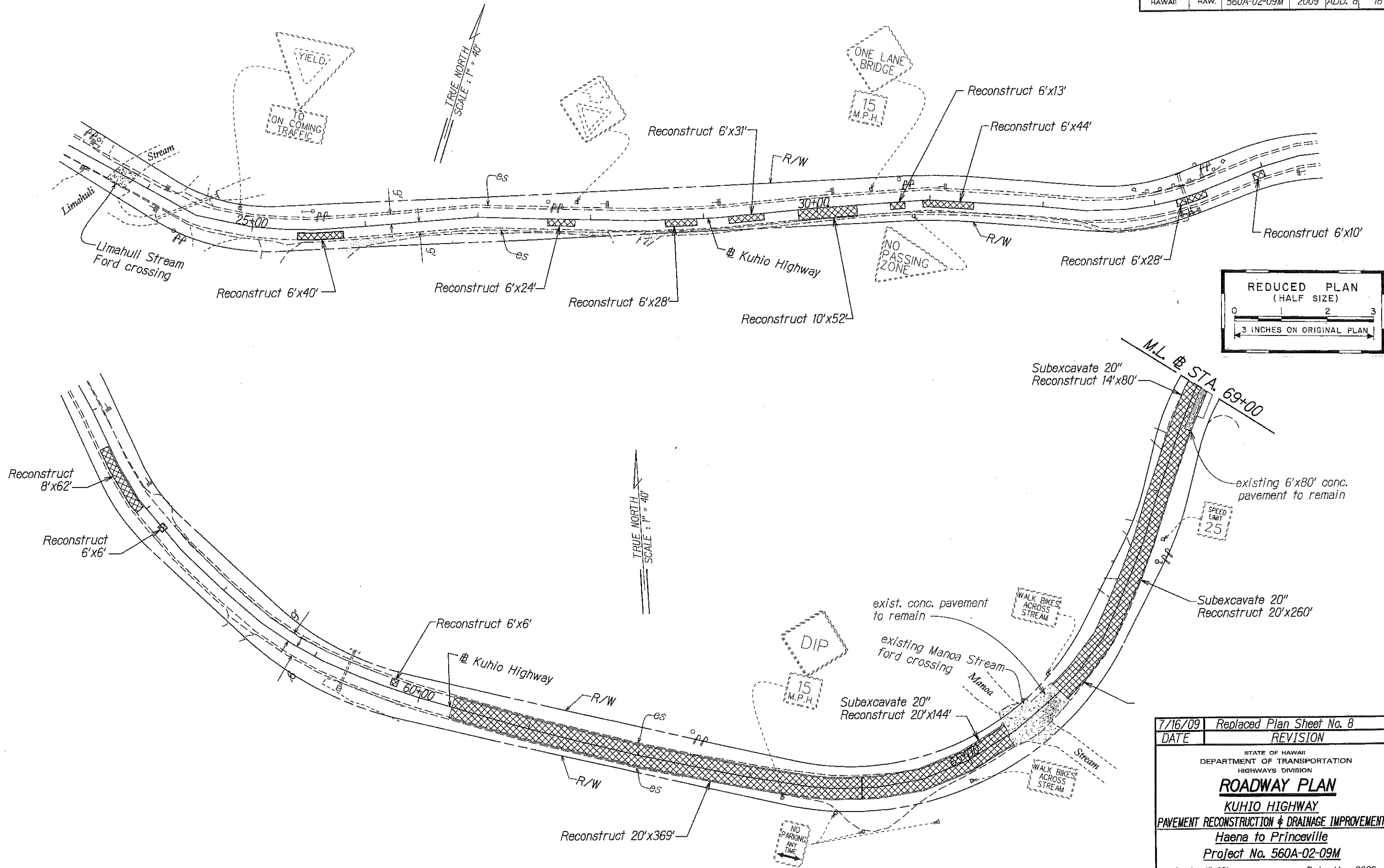
- NOTES:**
1. Traffic will be allowed to ride on fully-compacted Cement-Treated Granular Subgrade.
 2. Temporary pavement markings shall be installed prior to opening up lanes to traffic.
 3. Glasgrid 8501 or Equivalent shall be installed following SS-1 Tack Coat application.
 4. The only vehicles permitted to run on installed Paving Grid prior to constructing HMA Pavement, Mix No. IV shall be: Contractor's vehicles and equipment, vehicles of the State representative(s), and emergency vehicles.
 5. HMA Pavement shall be constructed on the same working day as Paving Grid installation.



7/16/09	Replaced Plan Sheet No. 6
DATE	REVISION

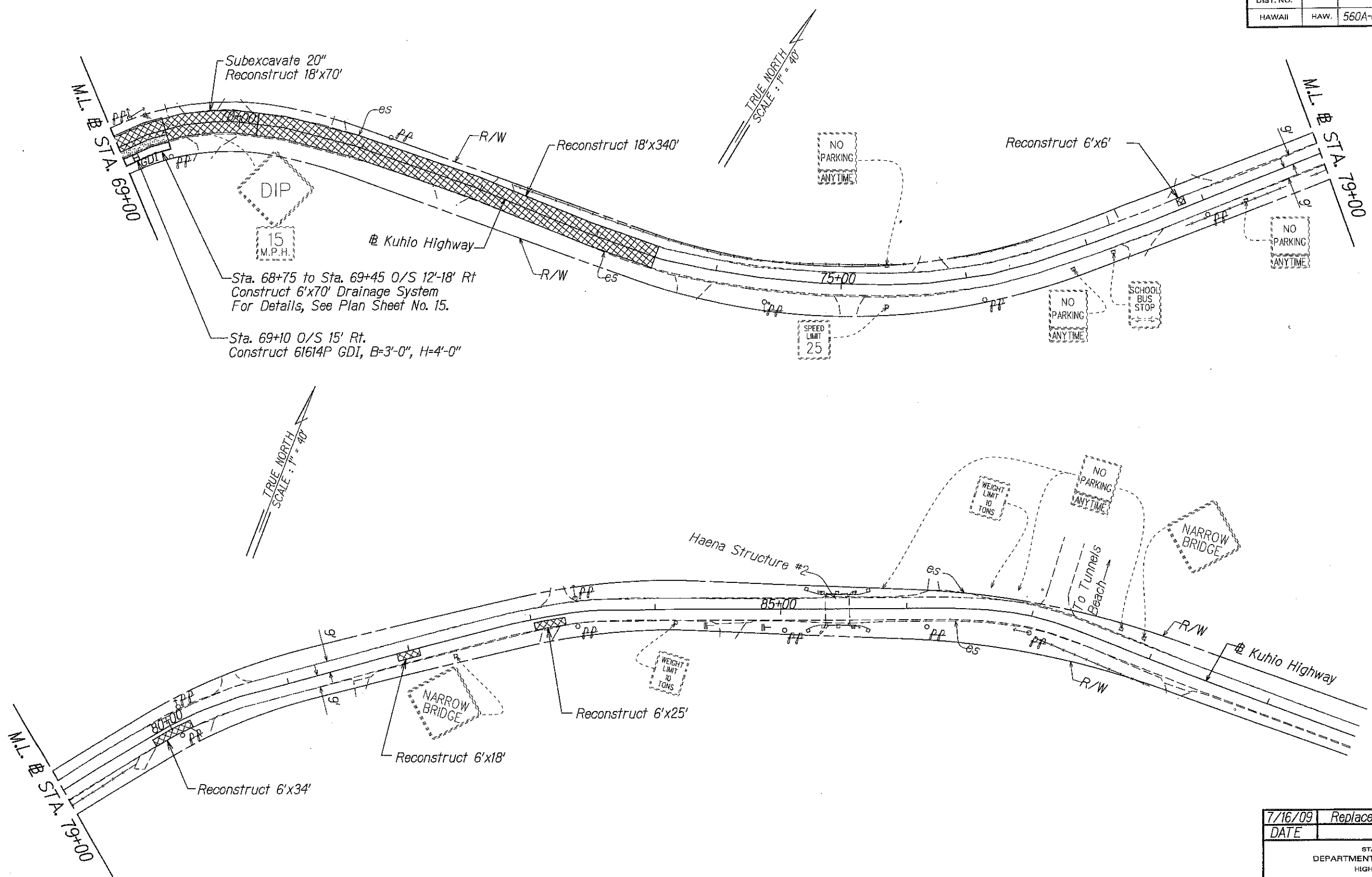
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
TYPICAL SECTIONS
& PAVEMENT DETAILS
KUHIO HIGHWAY
PAVEMENT RECONSTRUCTION & DRAINAGE IMPROVEMENTS
Haena to Princeville
Project No. 560A-02-09M
 Scale: Not to Scale Date: May 2009
 SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	560A-02-09M	2009	ADD. 8	18

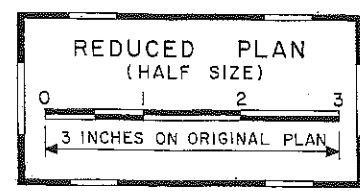


SURVEY PLANNED BY	DATE
DESIGNED BY	
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	560A-02-09M	2009	ADD. 9	18



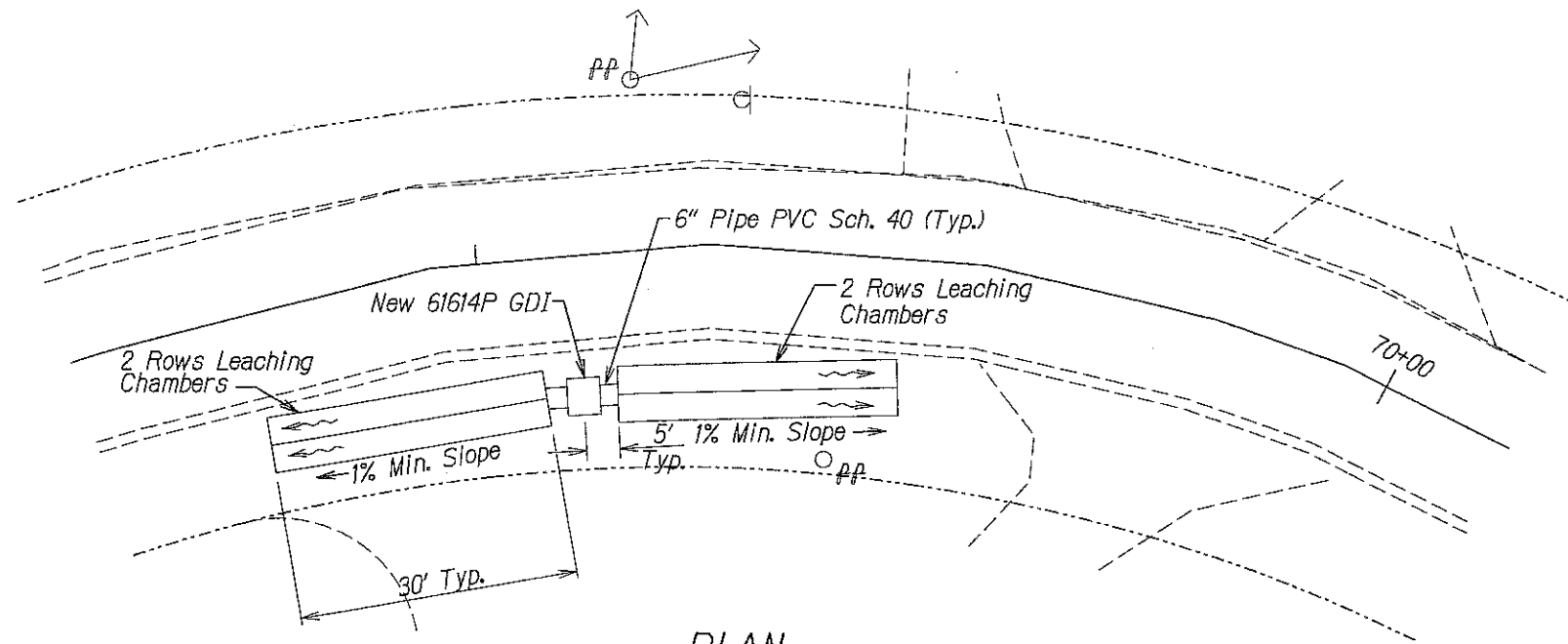
DESIGNED BY	DATE
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QUANTITIES	
ADD. 9.000	



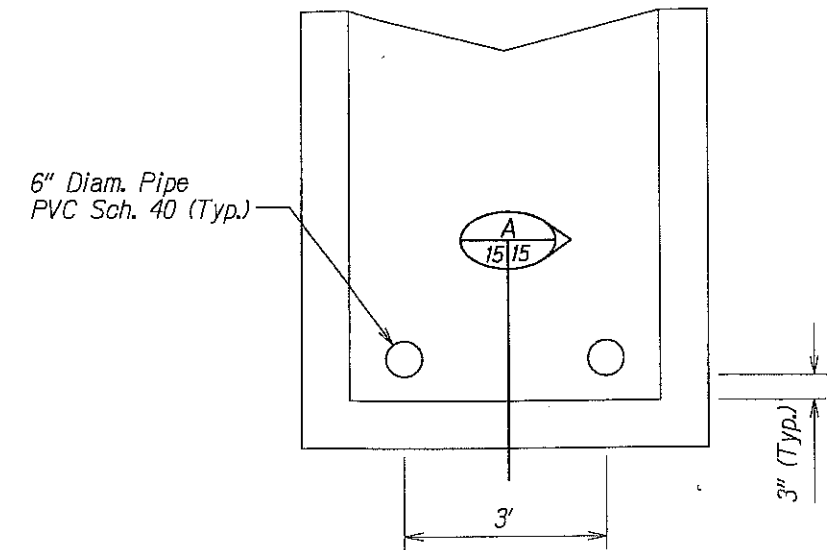
7/16/09	Replaced Plan Sheet No. 9
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLAN	
KUHIO HIGHWAY	
PAVEMENT RECONSTRUCTION & DRAINAGE IMPROVEMENTS	
Haena to Princeville	
Project No. 560A-02-09M	
Scale: 1"=40'	Date: May 2009
SHEET No. 3 OF 8 SHEETS	

ADD. 9

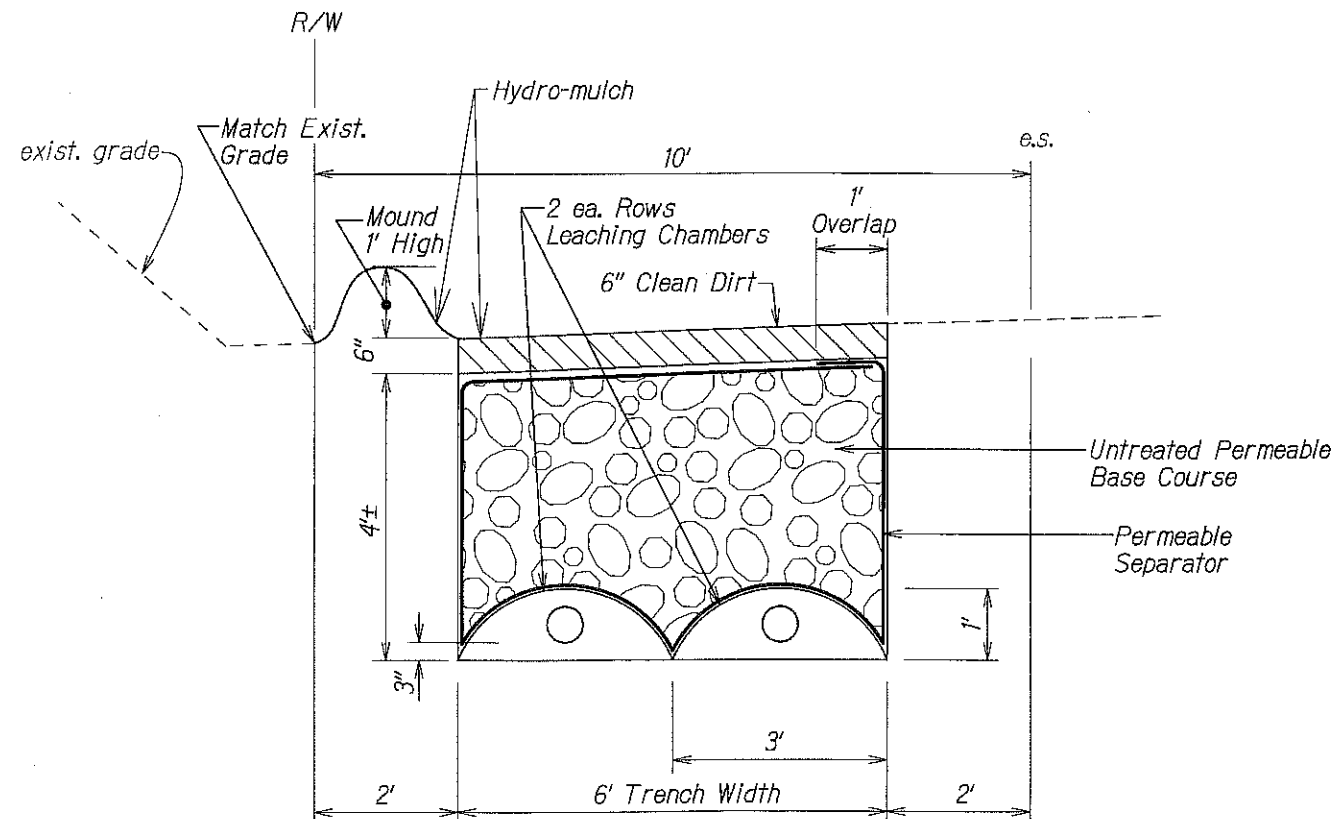
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	560A-02-09M	2009	ADD. 15	18



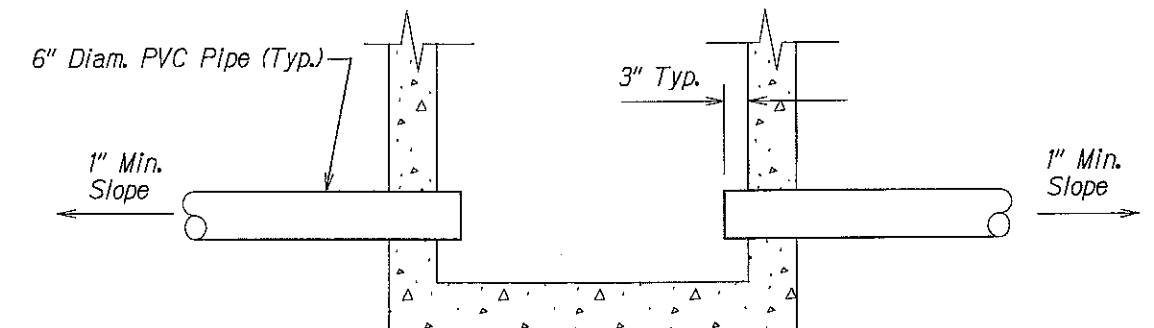
PLAN
Scale: 1"=10'



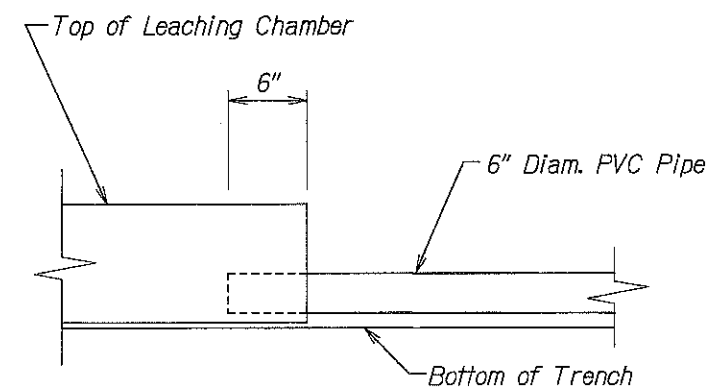
PVC PIPE OUTLETS AT 61614P GDI
Not to Scale



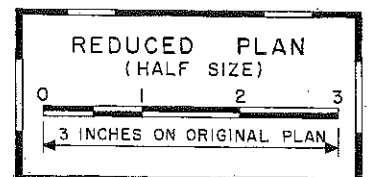
TYPICAL SECTION 6' WIDE DRAINAGE SYSTEM
Sta. 68+75 to Sta. 69+45 O/S Rt.
Not to Scale



SECTION A
Not to Scale 15/15



PVC PIPE OUTLET AT LEACHING CHAMBER
Not to Scale



7/16/09	Replaced Plan Sheet No. 15
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
KUHO HIGHWAY	
PAVEMENT RECONSTRUCTION & DRAINAGE IMPROVEMENTS	
Haena to Princeville	
Project No. 560A-02-09M	
Scale: As Shown	Date: May 2009
SHEET No. 1 OF 2 SHEETS	

