

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-01-07M	2007	ADD.3	20

GENERAL NOTES

1. The project includes resurfacing existing pavement; cold planing; adjusting water valves, manhole covers, monuments; striping; installing signing and pavement markings; cleaning of culverts, traffic signal repairs and all incidental work.

2. The Contractor shall remove and dispose of all existing raised pavement markers, traffic tapes, and epoxy adhesives prior to overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.

3. Prior to resurfacing, the existing surface shall be cleaned as described in Section 310 of the Standard Specifications and as amended. Payment shall be considered incidental to the various contract items.

4. As shown on the plans or directed by the Engineer, a smooth riding transition shall be provided at the beginning and end of the project, at side streets, driveways, between all pavement areas used by public traffic during each construction phase, and between transition of construction phases. Payment for this work shall be made under Item No. 401.0400, A.C. Pavement, Mix No. IV.

5. The Contractor's attention is directed to Sub-Sections 104.04, 107.13 and Section 645 of the Standard Specifications and the Special Provisions.

6. Saw-cutting of existing pavement shall not be measured or paid for separately, but shall be considered incidental to cold planing.

7. All lanes shall be open to traffic during the morning peak hours from 6:30 a.m. to 8:30 a.m. and during afternoon peak hours from 3:30 p.m. to 6:00 p.m. and off work hours. Along Kahului Beach Road construction work may be done at night. The Contractor shall be responsible for securing noise variance permit. See Special Provisions Section 645 (Work Zone Traffic Control).

8. The existence and location of underground utilities, manholes, monuments, pullboxes, traffic signal loops and structures as shown on the plans are from the latest available data but accuracy is not guaranteed. The encountering of other obstacles during the course of the work may be possible. The Contractor shall be held liable for any damages incurred to the existing facilities as a result of his operations or shall not be disturbed during cold planing and/or pavement reconstruction. All damaged portions shall be replaced on accordance with the Standards and Specifications of the State and/or the affected utility company.

9. The exact limits of areas to be reconstructed shall be determined in the field by the Engineer. The depth of excavation for reconstruction shall be the reconstruction thickness minus the overlay thickness as designated on the plans. The excavated areas shall be reconstructed with Plant Mix Glassphalt Concrete Base Course prior to resurfacing.

10. The Contractor shall notify the State, in writing, two weeks prior to starting paving operations.
11. All construction signs shall be left in place until all construction items have been completed. Contractor shall obtain prior approval from the Engineer to remove construction signs.

12. The Contractor shall reference all existing pavement markings prior to resurfacing. Final placement of the new pavement markings shall be as approved by the Engineer. Payment for this work shall be considered incidental to new pavement markers and striping. See Standard Detail, TE 30.

13. All holes, cracks and large depressions shall be filled and compacted with A.C. Pavement, Mix No. IV prior to resurfacing. Pavement shall be under Item No. 401.0400, A.C. Pavement, Mix No. IV.

14. Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidents necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.

15. All manholes frames and covers affected by the resurfacing shall be adjusted to the new grades as directed by the Engineer.

16. Cold planed connections shall be constructed at all limits of resurfacing, 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. Exact locations shall be determined in the field by the Engineer. Payment for this work approaches, side streets and driveways as shown on the plans shall be considered incidental to Item No. 652.0100.

17. Prior to cold planing verify the locations of all existing detector loop cables within the areas to be cold planed. Continuity of Services: During construction or other improvements, the Contractor shall keep the traffic signal system operational. The Contractor shall arrange the work accordingly and shall provide temporary relocations and wiring as necessary. Loop detectors damaged during the Contractor's cold planing of pavement areas shall be replaced within 48 hours. Replacement and relocation of the new loop detectors shall be as directed by the Engineer. This work shall be considered incidental to Item No. 415.0100, cold planing.

18. Traffic signals to be upgraded are located at intersections of Waiehu Beach Road @ Sta. 8+80±, Kanaloa Avenue @ Sta. 22+00± and Wahinepio Avenue @ Sta. 44+50±. Traffic signal plan for Wahinepio Avenue Sta. 44+50± is not attached on the project plans. Contractor shall verify in the field prior to bidding. Scope of work shall be as described in Section 623 of the Special Provisions or as mutually agreed upon between the Contractor and the State.

19. At the end of each day's work and night's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

LEGEND

- Cold Planing Areas
- Resurfacing Limits
- Existing Guy Pole
- Existing Joint Pole
- Existing Power Pole
- Existing Drain Line
- Existing Electrical Line
- Existing Sewer Line
- Existing Force Main
- Existing Sewer Manhole Air Valve
- Adjusted Sewer Manhole Air Valve
- Existing Telephone Line
- Adjusted Water Valve
- Adjusted Water MH Frame/Cover
- Adjusted Water MH Frame/Cover
- Existing Fire Hydrant
- Adjusted Storm Drain Manhole
- Existing Telephone Pullbox
- Existing Storm Drain Catch Basin
- Existing 12" Water Line
- Existing 16" Water Line

3-21-07 Revised General Notes No. 7.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

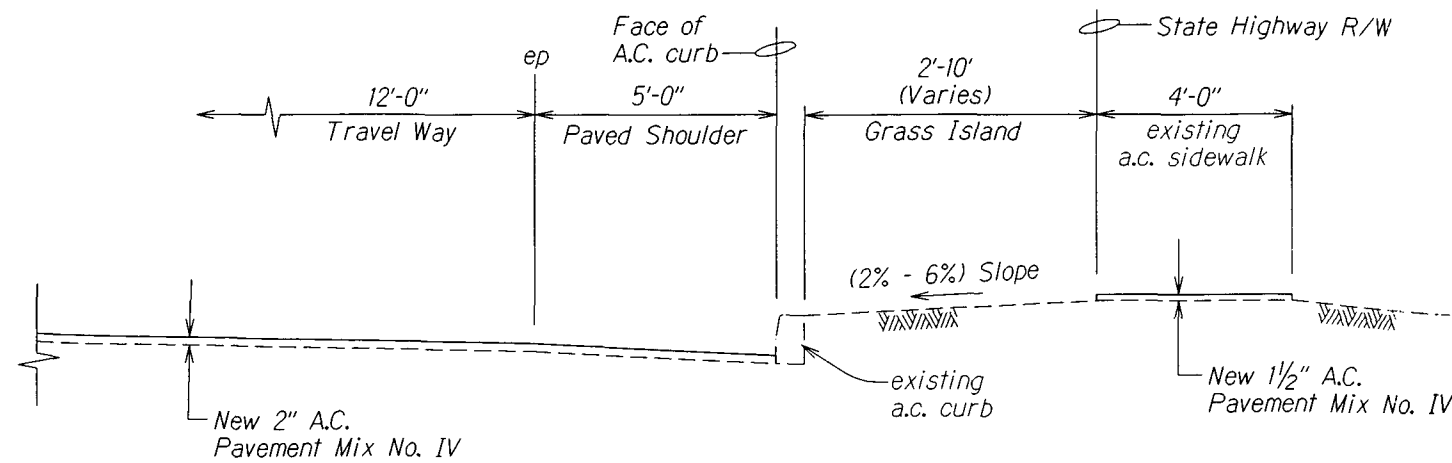
KAHULUI BEACH ROAD RESURFACING
Waiehu Beach Road to Kaahumanu Ave.
Project No. 3400A-01-07M

Date: October, 2006

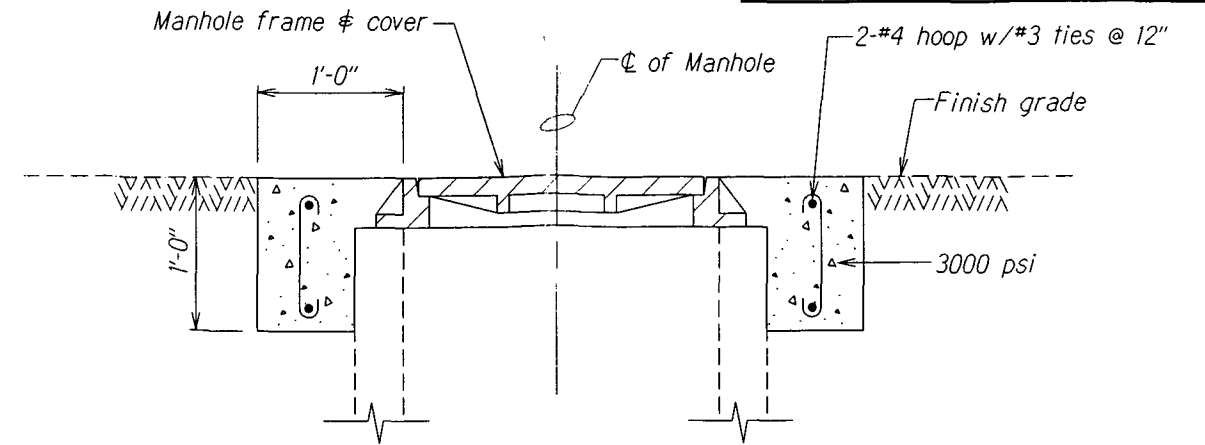
SHEET No. 1 OF 1 SHEETS

ADD.3

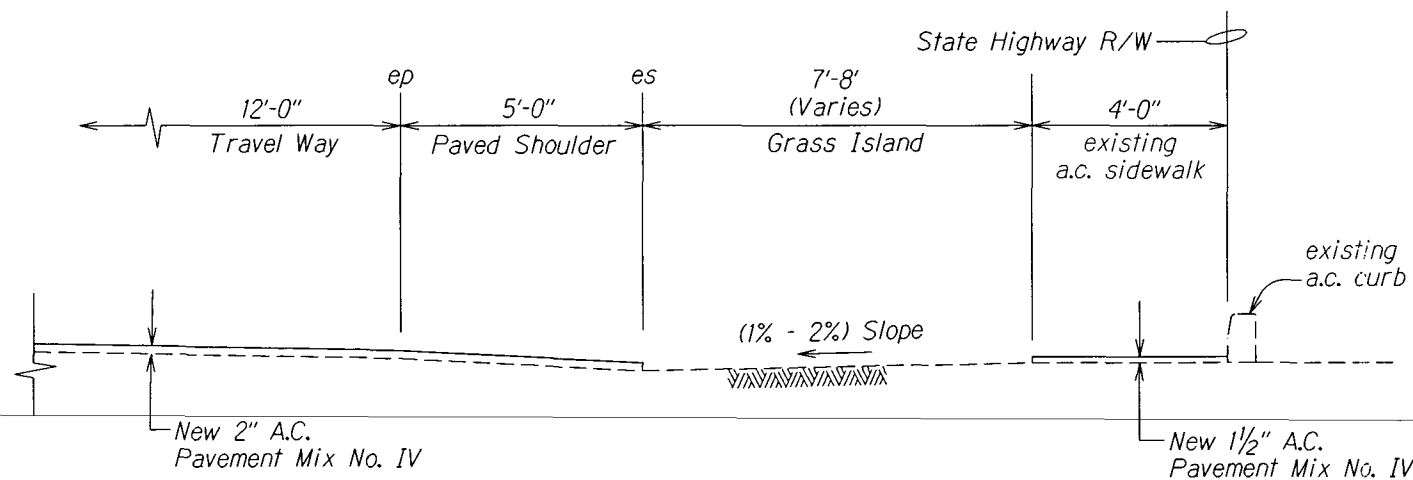
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-01-07M	2007	ADD.8	20



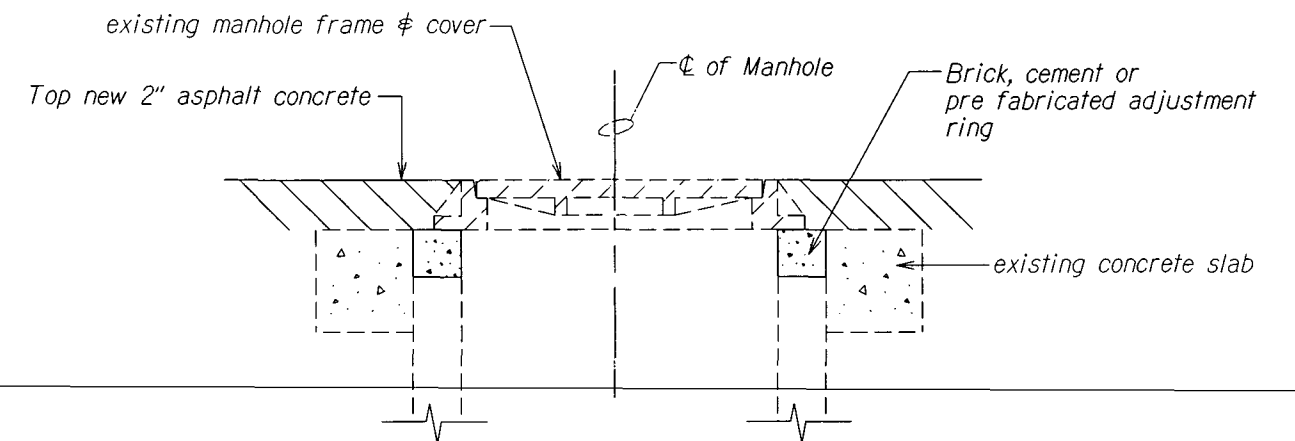
TYPICAL SECTION
4' A.C. SIDEWALK
 (STA. 61+15± RT. - STA. 63+60± RT.)
 Scale: 1/2" = 1'-0"



DETAIL - CONCRETE COLLAR FOR
ADJUSTMENTS OF MANHOLES AND VALVE BOX
 Not To Scale

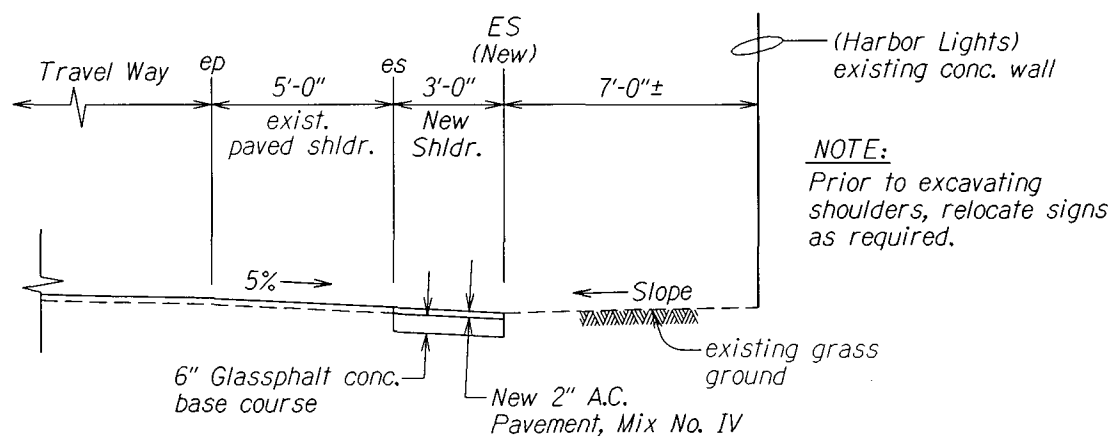


TYPICAL SECTION
4' A.C. SIDEWALK
 (STA. 64+00± RT. - STA. 67+40± RT.)
 Scale: 1/2" = 1'-0"

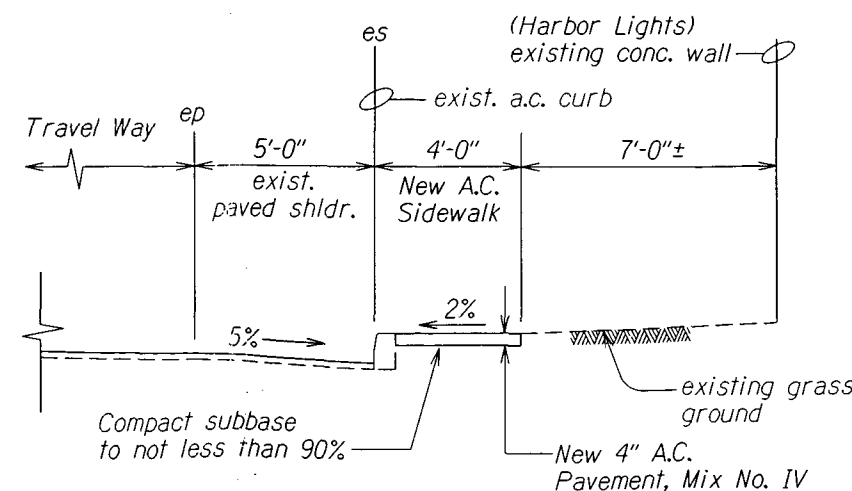


DETAIL - ADJUSTMENT OF CONCRETE TOP STORM DRAIN MANHOLE
 Not To Scale

NOTE:
 Contractor to carefully chip and remove existing manhole frame and cover, level surface and adjust frame and cover to new grade. Existing concrete slab surface not required to be roughen for adequate bonding, apply typical tack coat prior to resurfacing.



TYPICAL SECTION FOR WIDENING SHOULDERS
 STA. 54+75± RT. - STA. 60+75± RT.
 Scale: 3/8" = 1'-0"



TYPICAL SECTION FOR ADDITIONAL 4' A.C. SIDEWALK
 STA. 60+75± RT. - STA. 61+15± RT.
 Scale: 3/8" = 1'-0"

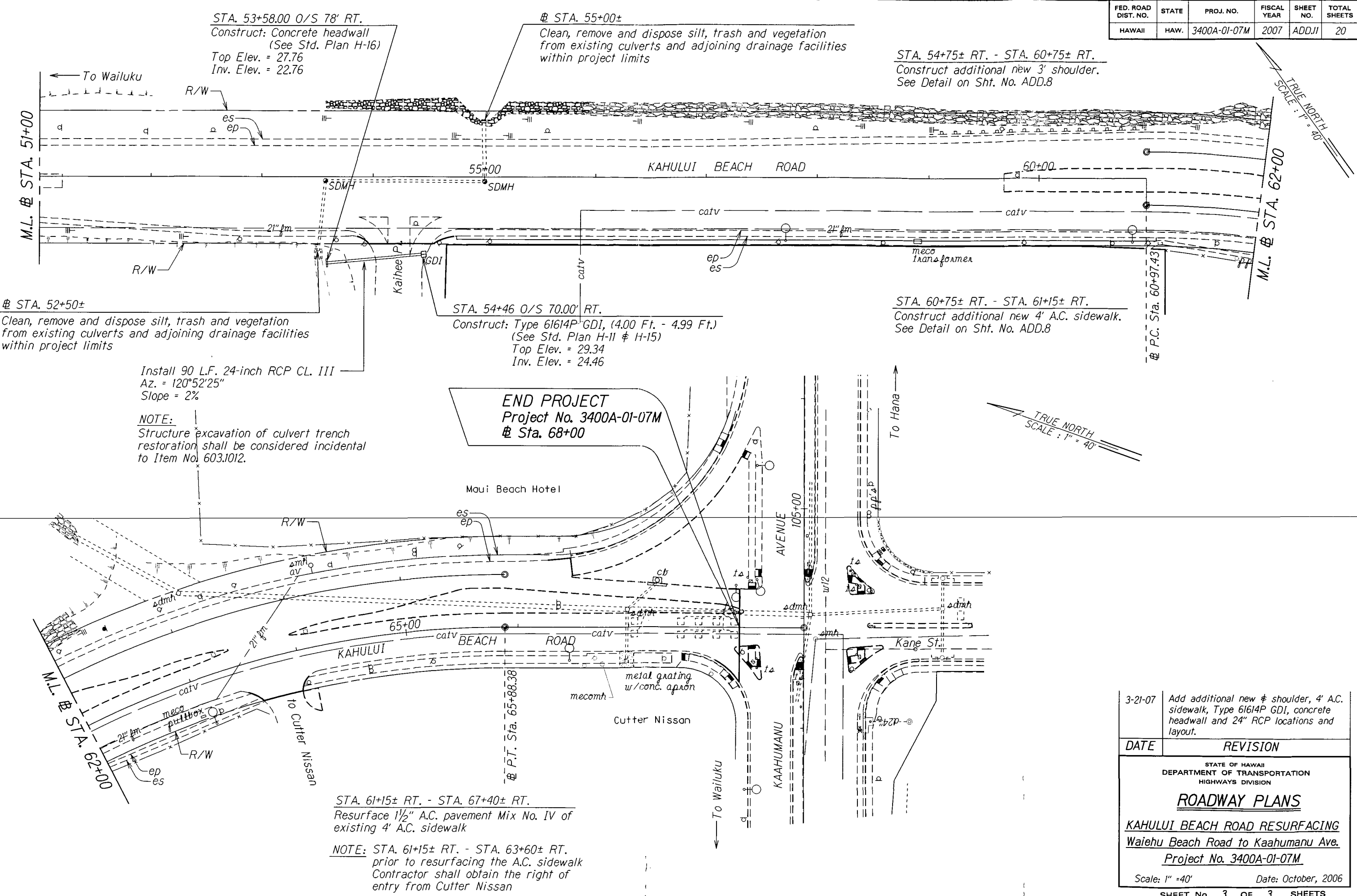
3-21-07 Add Typical Sections for widening shoulder & 4' A.C. sidewalk.

DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPICAL SECTIONS & DETAILS	
KAHULUI BEACH ROAD RESURFACING	
Waiehu Beach Road to Kaahumanu Avenue	
Project No. 3400A-01-07M	
Scale: As Shown	Date: October, 2006
SHEET No. 3 OF 3 SHEETS	

ADD.8

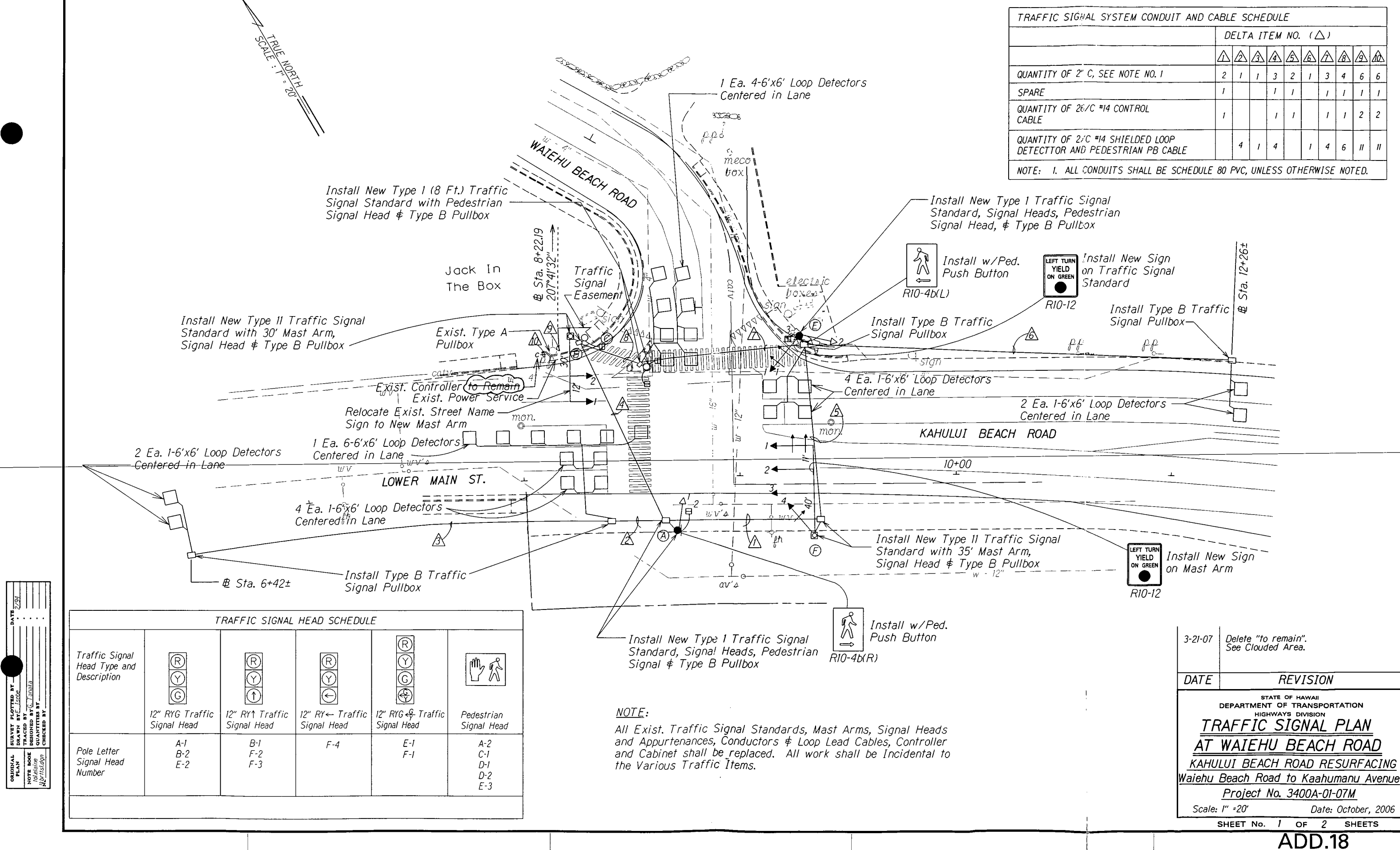
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-01-07M	2007	ADD.11	20



ORIGINAL PLAN	DATE
SURVEY	BY
DRAWN BY	DATE
DESIGNED BY	DATE
NOTED BY	DATE
CHECKED BY	DATE

3-21-07	Add additional new 4' shoulder, 4' A.C. sidewalk, Type 61614P GDI, concrete headwall and 24" RCP locations and layout.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ROADWAY PLANS KAHULUI BEACH ROAD RESURFACING Waiehu Beach Road to Kaahumanu Ave. Project No. 3400A-01-07M Scale: 1" = 40' Date: October, 2006 SHEET No. 3 OF 3 SHEETS	

TRAFFIC SIGNAL SYSTEM CONDUIT AND CABLE SCHEDULE										
	DELTA ITEM NO. (Δ)									
	Δ1	Δ2	Δ3	Δ4	Δ5	Δ6	Δ7	Δ8	Δ9	Δ10
QUANTITY OF 2" C, SEE NOTE NO. 1	2	1	1	3	2	1	3	4	6	6
SPARE	1			1	1		1	1	1	1
QUANTITY OF 26/C #14 CONTROL CABLE	1			1	1		1	1	2	2
QUANTITY OF 2/C #14 SHIELDED LOOP DETECTOR AND PEDESTRIAN PB CABLE		4	1	4		1	4	6	11	11
NOTE: 1. ALL CONDUITS SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED.										



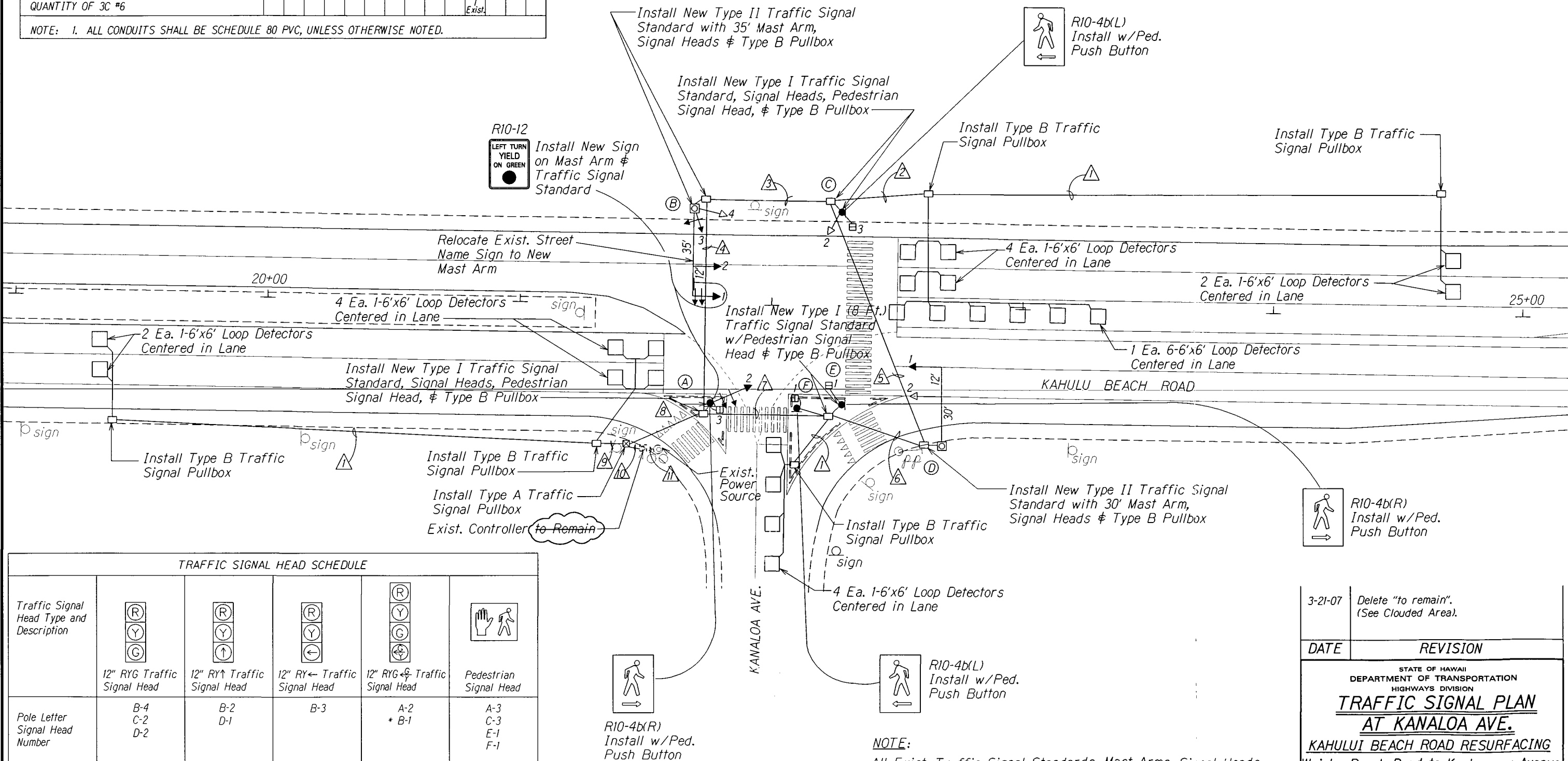
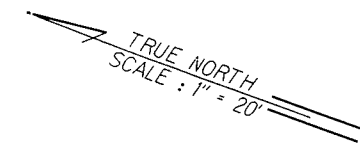
TRAFFIC SIGNAL HEAD SCHEDULE					
Traffic Signal Head Type and Description					
	12" RYG Traffic Signal Head	12" RY↑ Traffic Signal Head	12" RY← Traffic Signal Head	12" RYG & Traffic Signal Head	
Pole Letter	A-1	B-1	F-4	E-1	A-2
Signal Head Number	B-2	F-2		F-1	C-1
	E-2	F-3			D-2
					E-3

NOTE:
All Exist. Traffic Signal Standards, Mast Arms, Signal Heads and Appurtenances, Conductors & Loop Lead Cables, Controller and Cabinet shall be replaced. All work shall be incidental to the Various Traffic Items.

3-21-07	Delete "to remain". See Clouded Area.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC SIGNAL PLAN AT WAIEHU BEACH ROAD KAHULUI BEACH ROAD RESURFACING Waiehu Beach Road to Kaahumanu Avenue Project No. 3400A-01-07M Scale: 1" = 20' Date: October, 2006	
SHEET No. 1 OF 2 SHEETS	

TRAFFIC SIGNAL SYSTEM CONDUIT AND CABLE SCHEDULE													
	DELTA ITEM NO. (Δ)												
	1	2	3	4	5	6	7	8	9	10	11	12	13
QUANTITY OF 2" C, SEE NOTE NO. 1	1	1	1	2	3	3	4	5	1	6	1	Exist.	
SPARE				1	1	1	1	1		1			
QUANTITY OF 26/C #14 CONTROL CABLE			1	1	1	1	1	2		2			
QUANTITY OF 2/C #14 SHIELDED LOOP DETECTOR AND PEDESTRIAN PB CABLE	1	3			4	4	7	8	2	10			
QUANTITY OF 3C #6											1	Exist.	

NOTE: 1. ALL CONDUITS SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED.



TRAFFIC SIGNAL HEAD SCHEDULE

Traffic Signal Head Type and Description					
Pole Letter Signal Head Number	B-4 C-2 D-2	B-2 D-1	B-3	A-2 * B-1	A-3 C-3 E-1 F-1

* With Programmed Visibility

NOTE:
All Exist. Traffic Signal Standards, Mast Arms, Signal Heads and Appurtenances, Conductors & Loop Lead Cables, Controller and Cabinet shall be replaced. All work shall be Incidental to the Various Traffic Items.

3-21-07 Delete "to remain".
(See Clouded Area).

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC SIGNAL PLAN
AT KANALOA AVE.**

**KAHULU BEACH ROAD RESURFACING
Waiehu Beach Road to Kaahumanu Avenue**

Project No. 3400A-01-07M
Scale: 1" = 20' Date: October, 2006
SHEET No. 2 OF 2 SHEETS