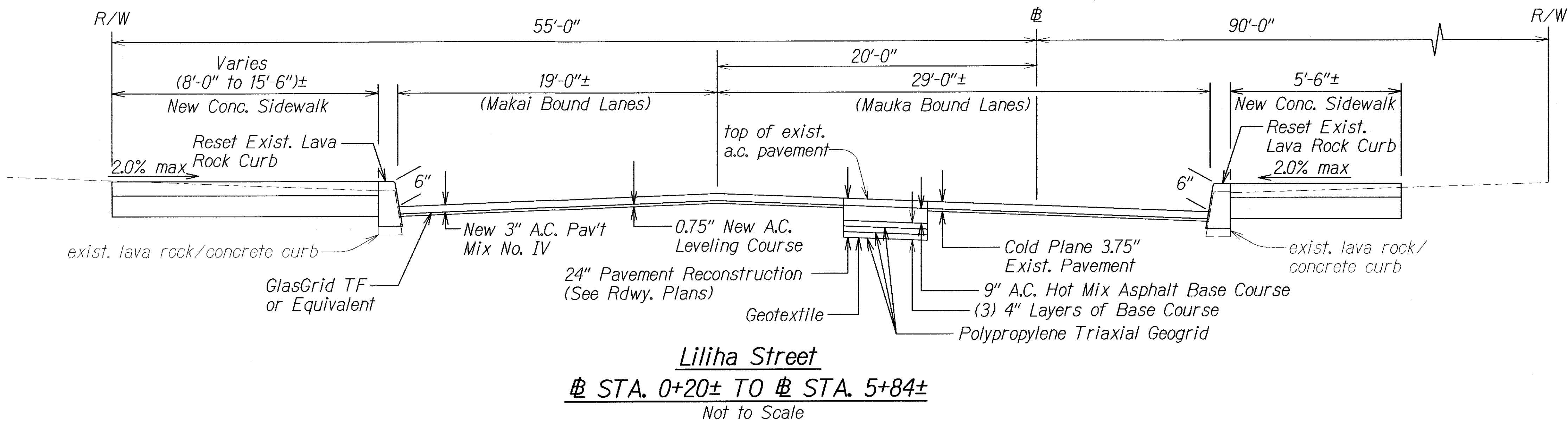
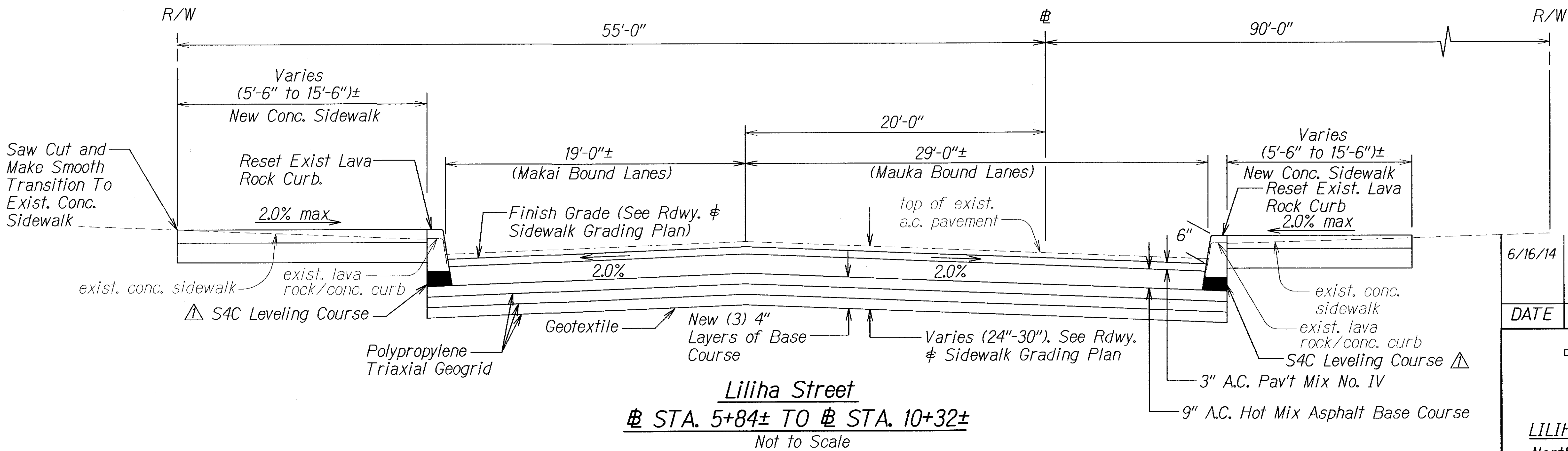


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	ADD. 7	62



Notes:

1. Reconstruction pavement installation procedures:
 - a. Excavate to the subgrade elevation. Will involve the removal of concrete slab.
 - b. Proof-roll the subgrade to a smooth surface. If the ground is very soft, HWY-LG should be informed to provide additional recommendations.
 - c. Place non-woven geotextile (Spec 716.06)
 - d. Place the polypropylene (punched and drawn) triaxial geogrid (Tensar TX7 or equivalent).
 - e. Place and compact 4" thickness of base course (with nominal maximum particle size of 3/4") to a minimum of 90 percent of its maximum dry density as determined by AASHTO T180.
 - f. Place the polypropylene (punched and drawn) triaxial geogrid (Tensar TX7 or equivalent).
 - g. Place and compact 4" thickness of base course (with nominal maximum particle size of 3/4") to a minimum of 90 percent of its maximum dry density as determined by AASHTO T180.
 - h. Place the polypropylene (punched and drawn) triaxial geogrid (Tensar TX7 or equivalent).
 - i. Place and compact 4" thickness of base course (with nominal maximum particle size of 3/4") to a minimum of 95 percent of its maximum dry density as determined by AASHTO T180.
 - j. Place and compact the 12" AC+ACB layers.



6/16/14 ± Corrected Typical Section.

DATE REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TYPICAL SECTION

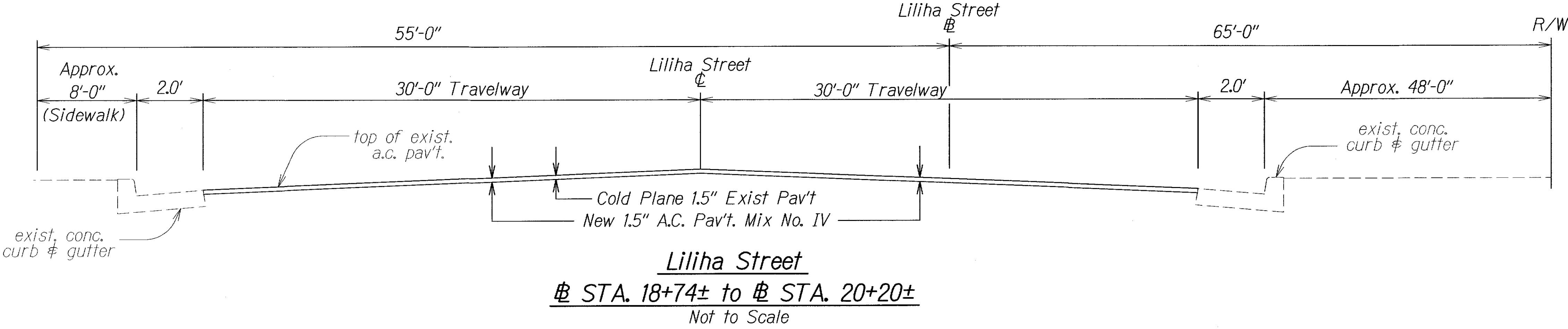
LILIHA STREET REHABILITATION
 North King Street to School Street
 Project No. 7413A-01-04M

Scale: As Noted Date: April, 2014

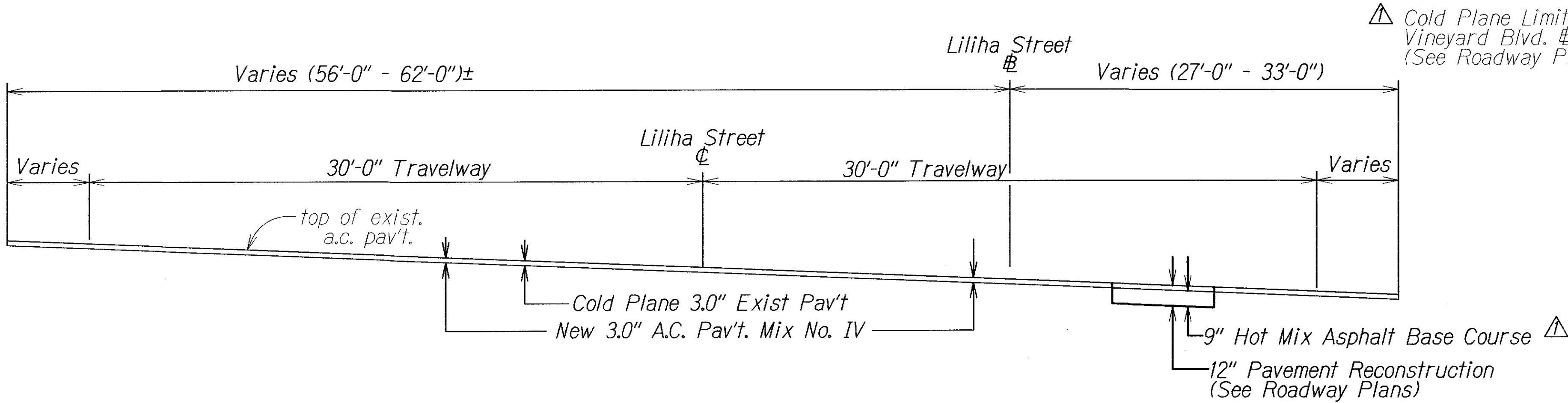
SHEET No. 1 OF 4 SHEETS

ADD. 7

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	ADD. 8	62



▲ Cold Plane Limit
 Vineyard Blvd. ± Sta. 101+90±
 (See Roadway Plans Sht. No. 29)

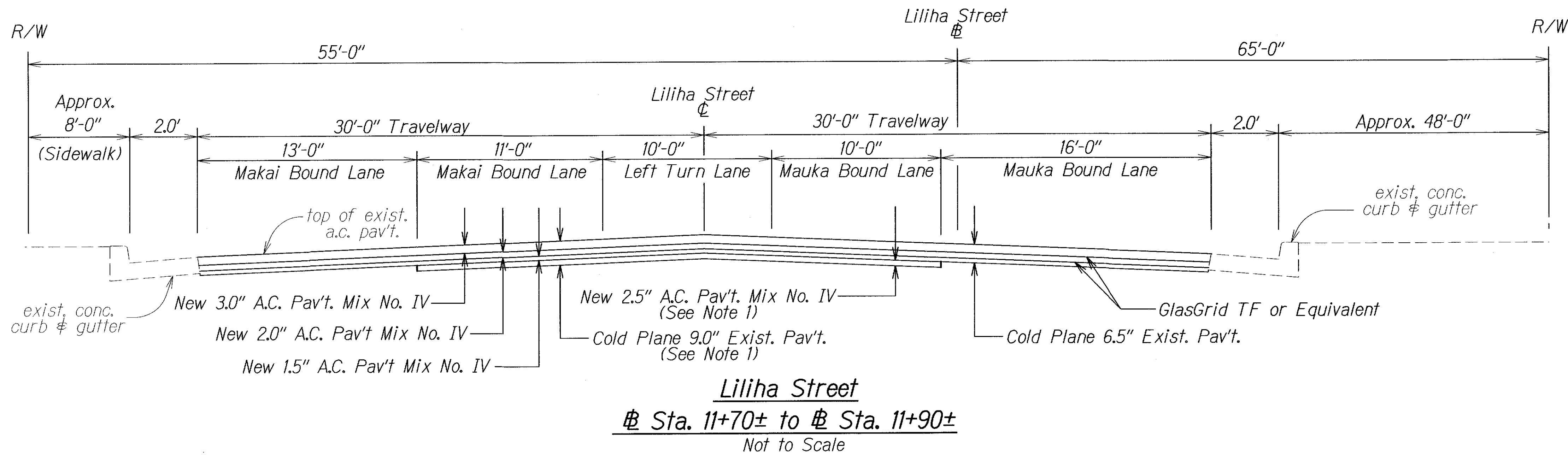


▲ Cold Plane Limit
 Vineyard Blvd. ± Sta. 102+79±
 (See Roadway Plans Sht. No. 29)

6/16/14	▲ Added Reconstruction Area. Revised Call-Out.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL SECTION LILIHA STREET REHABILITATION North King Street to School Street Project No. 7413A-01-04M Scale: As Noted Date: April, 2014 SHEET No. 2 OF 4 SHEETS	

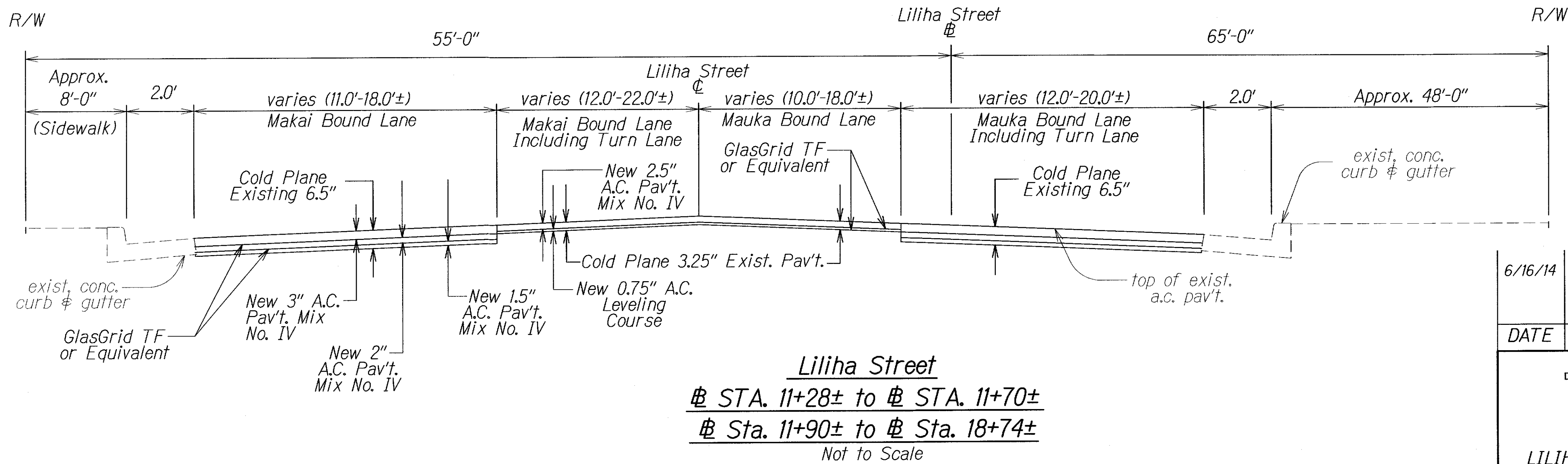
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	ADD. 9	62



Notes:

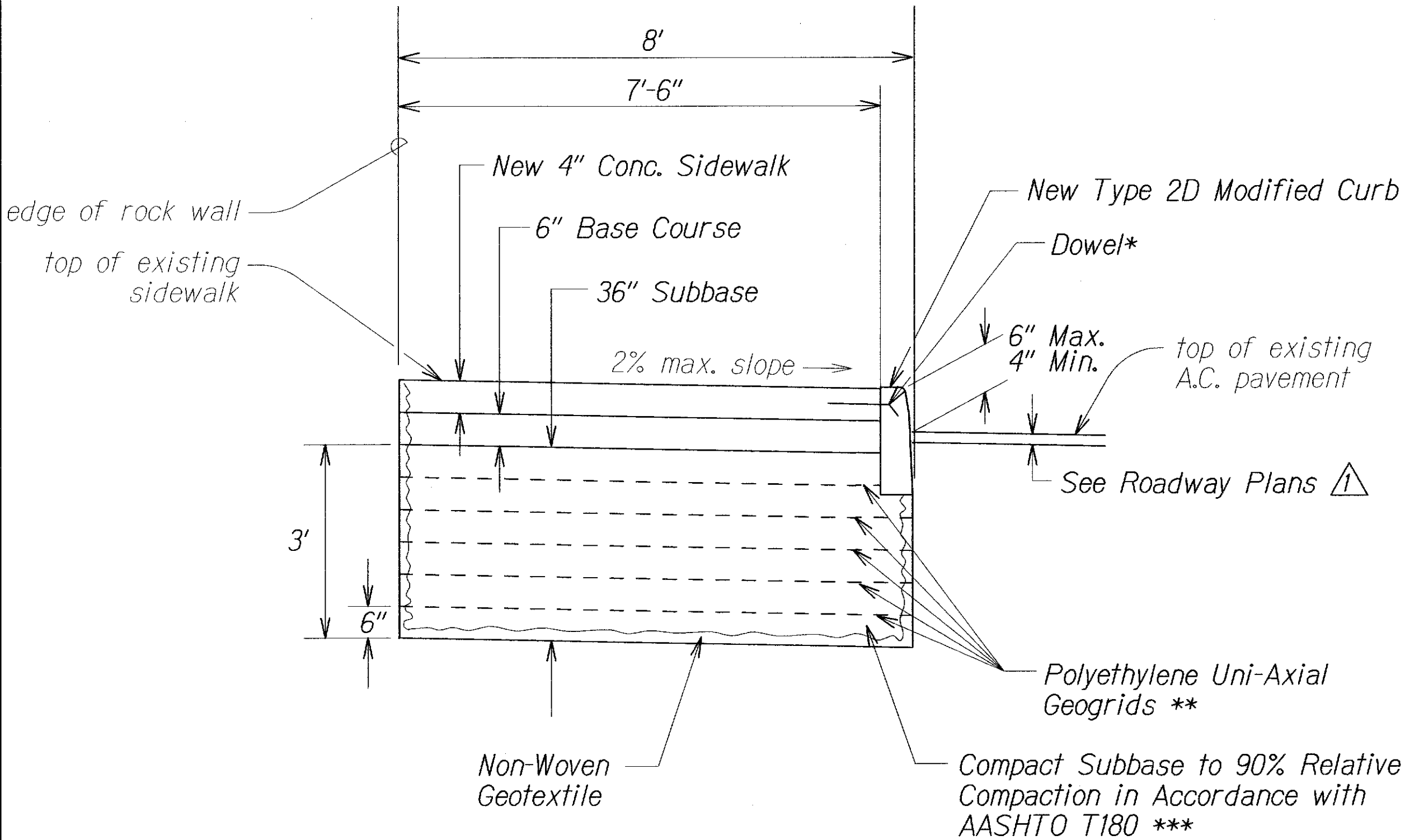
- 1. Concrete slabs may be encountered within the interior lanes. Excavation rather than cold-planing may be necessary.



DATE	DATE
DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY
ORIGINAL PLAN	NOTE BOOK
NO.	NO.

6/16/14	Revised Note.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL SECTION LILIHA STREET REHABILITATION North King Street to School Street Project No. 7413A-01-04M Scale: As Noted Date: April, 2014 SHEET No. 3 OF 4 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	ADD. 12	62

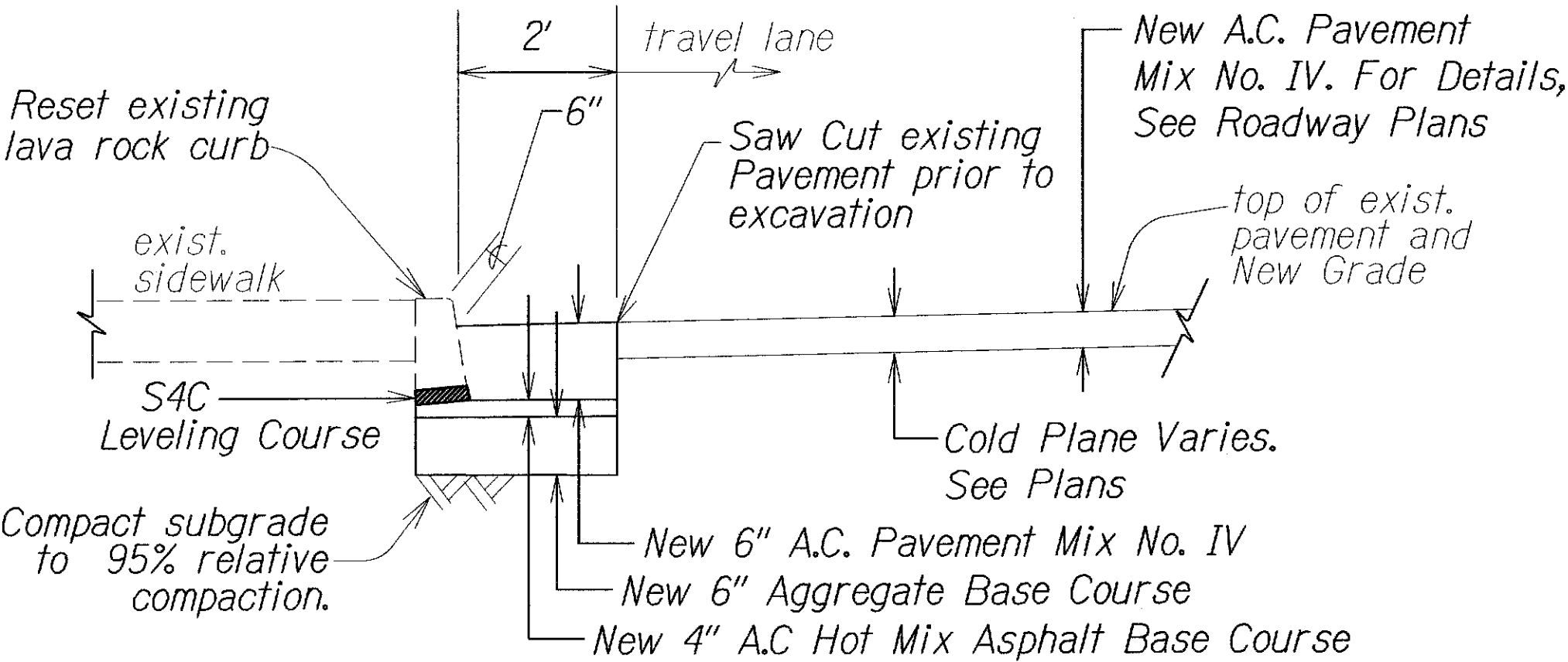


*Dowel curb and sidewalk together with 18" long #4 deformed rebars spaced 12" on-center. Bend dowel at back of curb as shown.

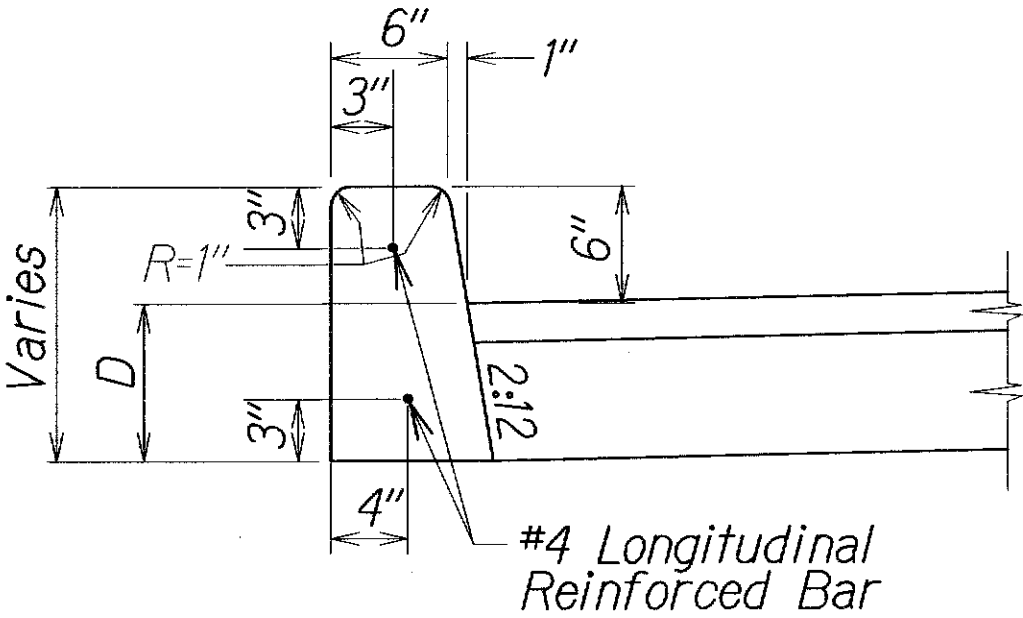
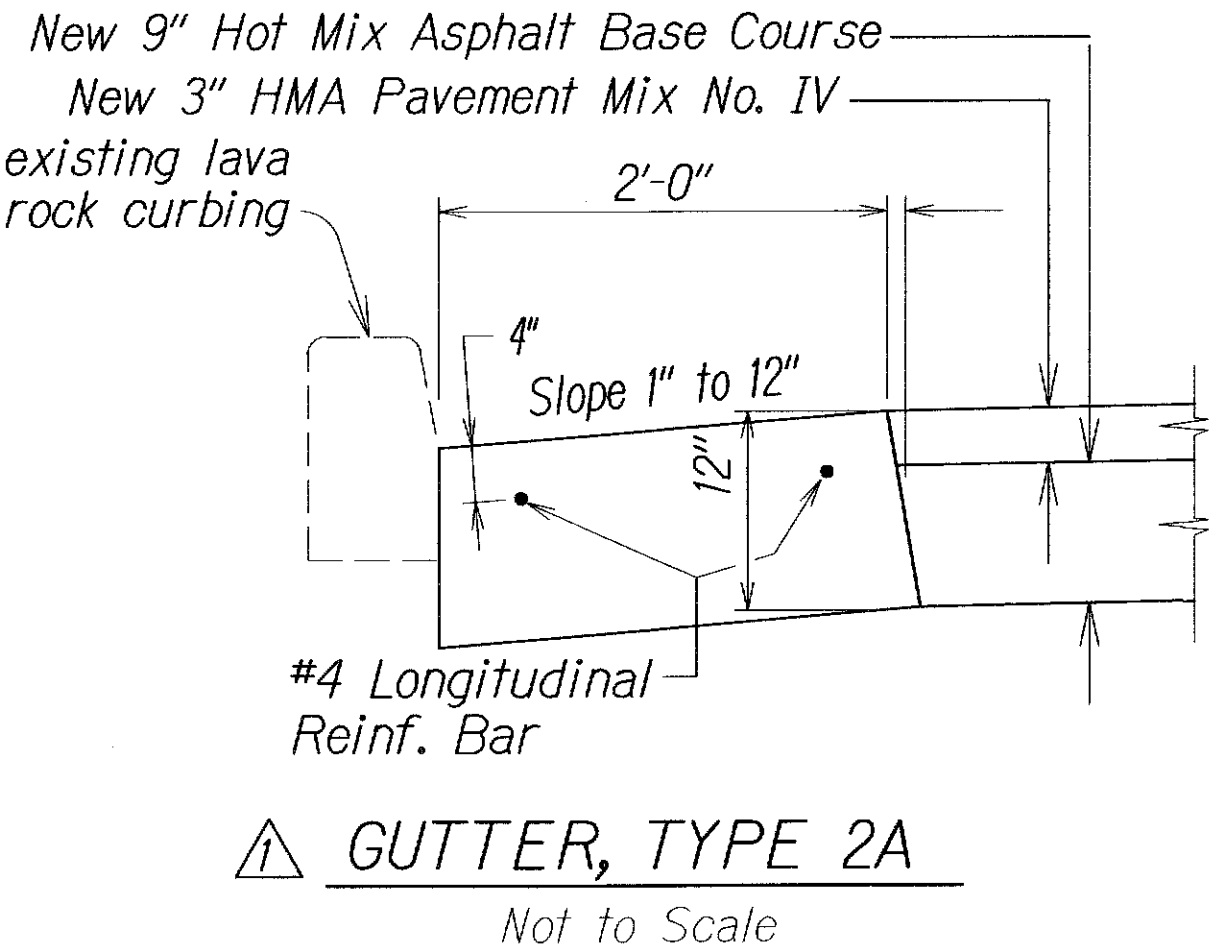
** Place geogrids at 6" spacing

*** Subbase should consist of 10% to 20% fines (material that passes the #200 sieve)

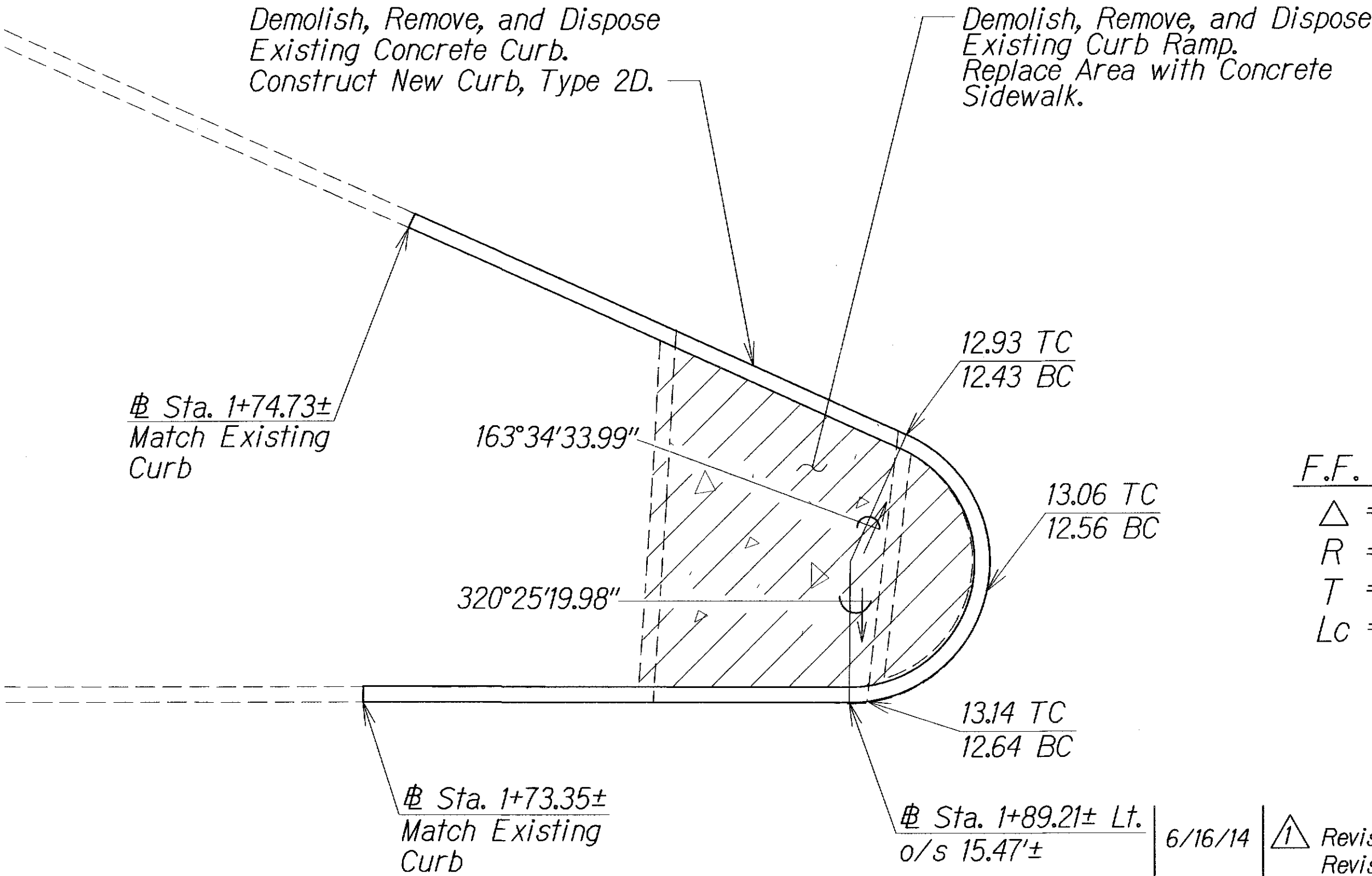
CONCRETE SIDEWALK RECONSTRUCTION DETAIL
 LILIHA FRONTAGE ROAD @ STA. 2+84± to
 LILIHA ACCESS ROAD @ STA. 4+30± RT.
 Not to Scale



RESETTING EXISTING LAVA ROCK CURBING
 Not to Scale



MODIFIED CURB, TYPE 2D



F.F. CURVE DATA
 $\Delta = 156^{\circ}50'45.99''$
 $R = 4.55'$
 $T = 22.21'$
 $Lc = 12.46'$

CURB RECONSTRUCTION DETAIL
 LILIHA ST. @ 1+73± to
 LILIHA ST. @ 1+92± Lt.
 Not to Scale

6/16/14 Δ Revised Call-out.
 Revised Depth of Gutter, Type 2A.

DATE REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DETAILS
 LILIHA STREET REHABILITATION
 North King Street to School Street
 Project No. 7413A-01-04M
 Scale: As Noted Date: April, 2014
 SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	ADD. 29	62

Liliha Street @ Sta. 0+93± o/s 156± to @ Sta. 5+42± Lt.,
@ Sta. 6+34± to @ Sta. 9+67± Lt.,
@ Sta. 0+44± to @ Sta. 5+44± Rt.,
@ Sta. 6+17± to @ Sta. 9+95± Rt.
Demolish, Remove and Dispose Existing 5.5'-15.5' Concrete Sidewalk. Reconstruct New 5.5'-15.5' Concrete Sidewalk. Provide Smooth Transition to Existing Sidewalk. For Details, See Plan Sheet No. 20

Prune and Remove Visible Roots 3' From Backside of Curb at Direction of DOT Arborist.

Install Detectable Warning Mats

Install Detectable Warning Mats

Demolish, Remove, and Dispose Existing Curb Ramp and Curb. Construct New Curb, Type 2D and Sidewalk. For Details, See Plan Sheet No. 12

▲ Liliha Street @ Sta. 0+20± to @ Sta. 5+84± Cold Plane 3.75", Pave 3.75" AC (.75" AC Leveling Course and 3" AC) with Glas Grid TF Installed at 3" Below Grade. For Details, See Plan Sheet No. 7

Liliha St. @ Sta. 0+50± to 1+07± Remove and Replace Existing Pre-cast Curb with New Pre-cast Curb, Type 3D.

▲ Liliha Street @ Sta. 11+28± to @ Sta. 11+70± (Interior Lanes),
@ Sta. 11+90± to @ Sta. 18+74± (Interior Lanes)
Cold-Plane 3.25", Pave 3.25" AC (0.75" AC Leveling Course and 2.5" AC) with Glas Grid TF Installed at 2.5" Below Grade. For Details, See Plan Sheet No. 9

▲ Liliha Street @ Sta. 11+28± to @ Sta. 11+70± (Exterior Lanes),
@ Sta. 11+90± to @ Sta. 18+74± (Exterior Lanes)
Cold-Plane 6.5", Pave 6.5" AC with Glas Grid TF Installed at 3" and 5" Below Grade. For Details, See Plan Sheet No. 9

Liliha Street @ Sta. 9+66± to @ Sta. 10+13± Lt.
Demolish, Remove, and Dispose 46± of Existing Gutter. Construct New Gutter, Type 2A.

Liliha Street @ Sta. 12+22± to @ Sta. 12+82± Lt.,
@ Sta. 15+56± to @ Sta. 16+16± Rt.,
@ Sta. 17+10± to @ Sta. 17+70± Lt.
Demolish, Remove, and Dispose Existing Curb and Gutter. Construct New Modified Curb and Gutter Type 2DG. For Details, See Plan Sheet No. 14

Liliha Street @ Sta. 12+22± to @ Sta. 12+82± Lt.,
@ Sta. 15+56± to @ Sta. 16+16± Rt.,
@ Sta. 17+10± to @ Sta. 17+70± Lt.
Construct New 10'x60' Concrete Bus Pad. For Details, See Plan Sheet No. 14

Liliha Street @ Sta. 7+84± to @ Sta. 8+06± Lt.,
@ Sta. 9+24± to @ Sta. 9+58± Lt.,
@ Sta. 12+04± to @ Sta. 12+22± Lt.,
@ Sta. 12+86± to @ Sta. 13+06± Lt.,
@ Sta. 13+57± to @ Sta. 13+80± Lt.,
@ Sta. 15+72± to @ Sta. 15+91± Lt.,
@ Sta. 15+98± to @ Sta. 16+18± Lt.,
@ Sta. 16+50± to @ Sta. 16+89± Rt.
Demolish, Remove, and Dispose Existing Driveways. Reconstruct New Concrete Driveways. For Details, See Plan Sheets Nos. 15-17

BEGIN PROJECT
Project No. 7413A-01-04M
@ STA. 0+00±

Liliha Street @ Sta. 12+30± Rt.
Sawcut, Remove and Excavate A.C. Pavement and Ground. Construct New Concrete Apron Offset Sidewalk. For Details, See Plan Sheet No. 13

▲ Liliha Street @ Sta. 11+70± to @ Sta. 11+90± (All Lanes)
Cold-Plane 6.5", Pave 6.5" AC with Glas Grid TF Installed at 3" and 5" Below Grade. Cold-Plane Additional 2.5" For Interior Lanes. For Details, See Plan Sheet No. 9

Liliha Street @ Sta. 13+50± to @ Sta. 13+75± Rt.
Demolish, Remove, and Dispose 25 linear feet of Existing Curb and Gutter and Replace with 25 linear feet New Curb and Gutter, Type "2DG."

Liliha Street @ Sta. 12+48± to 13+94± Rt.
Demolish, Remove, and Dispose Existing Sidewalk. Construct New Concrete Sidewalk. Provide Smooth Transition to Existing Catch Basin.

Liliha Street @ Sta. 16+12± to @ Sta. 16+16± Rt.
Sawcut, Remove and Replace 4x4 Concrete Sidewalk.

Liliha Street @ Sta. 16+71± to @ Sta. 16+85± Rt.
Demolish, Remove, and Dispose Existing Catch Basin. Construct New Modified Type B Catch Basin. For Details, See Plan Sheet No. 32 & 33

6/16/14 ▲ Revised Work Description.
Revised Reconstruction Area.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

LILIHA STREET REHABILITATION
North King Street to School Street
Project No. 7413A-01-04M

Scale: 1" = 40' Date: April, 2014

SHEET No. 1 OF 2 SHEETS

ADD. 29

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	ADD. 30	62

School Street @ Sta. 23+38.18 ± o/s 43.96'± Lt. to @ Sta. 23+69.79± o/s 39.40'± Lt.,
School Street @ Sta. 25+48.98± o/s 39.35'± Lt. to @ Sta. 25+87.08± o/s 76.86'± Lt.,
Liliha Access Road @ Sta. 1+01.60± o/s 8.39± Rt. to @ Sta. 1+13.79± o/s 7.88± Rt.,
Ramp 6 @ Sta. 0+43.31± o/s 34.94'± Lt. to @ Sta. 0+56.30± o/s 25.20'± Lt.,
Construct New Concrete Wall. For Details, See Plan Sheet No. 51-52, 56-59.

School Street @ Sta. 23+69.79± to @ Sta. 23+88.54± Lt.,
School Street @ Sta. 25+30.23± to @ Sta. 25+48.98± Lt.,
Install New Type "S" Endpost With Thrie Beam Transition.
For Details, See Plan Sheet Nos. 53, 60-62.

School Street @ Sta. 23+88.54± to @ Sta. 25+30.23± Lt.,
Install New Thrie Beam Guardrail.

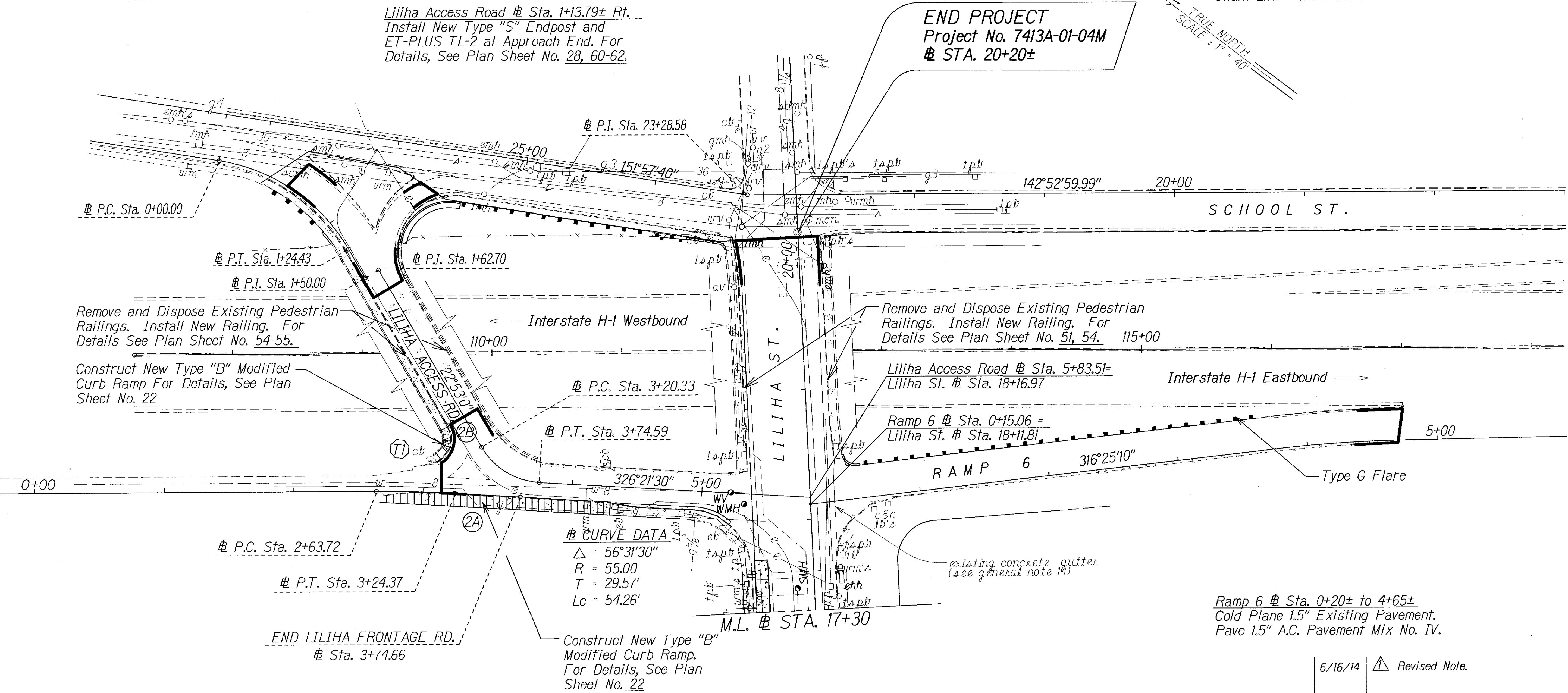
Liliha Access Road @ Sta. 1+13.79± Rt.,
Install New Type "S" Endpost and ET-PLUS TL-2 at Approach End. For Details, See Plan Sheet No. 28, 60-62.

Liliha Access Road @ Sta. 4+18± to @ Sta. 5+38±
Cold-Plane 6.5", Pave 6.5" AC with Glas Grid TF
Installed at 3" and 5" Below Grade. For Details, See Sheet No. 10

▲ Liliha Access Road @ Sta. 0+58± to @ Sta. 1+77±,
@ Sta. 2+94± to @ Sta. 4+18± (Include Curb Returns)
Cold Plane 1.5" Existing Pavement. Pave 1.5" A.C.
Pavement, Mix No. IV.

School Street @ Sta. 23+40± to @ Sta. 24+00± Lt.,
Remove Existing Chain Link Fence and Posts.

School Street @ Sta. 23+63.50 to @ Sta. 24+00± Lt.,
Begin Post at @ Sta. 23+63.50, 1" from Rear Face of New Proposed Concrete Wall. Install New Chain Link Fence and Posts.



SURVEY PLOTTED BY	DATE
DRAWN BY	2/13/93
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
NO.	

6/16/14	▲ Revised Note.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ROADWAY PLANS LILIHA STREET REHABILITATION North King Street to School Street Project No. 7413A-01-04M Scale: 1" = 40' Date: April, 2014 SHEET No. 2 OF 2 SHEETS	