

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-ROS-083-1(12)	1984	4	63

LEGEND

- vm valve marker
- sdmh storm drain manhole
- wmh water manhole
- fh fire hydrant
- ep electric pole
- tp telephone pole
- electric or telephone pole w/ guy
- wm water meter
- wv water valve
- mb mail box
- exist'g 30" waterline
- Guard Rail Energy Absorbing Terminal Impact Attenuator (G-R-E-A-T)

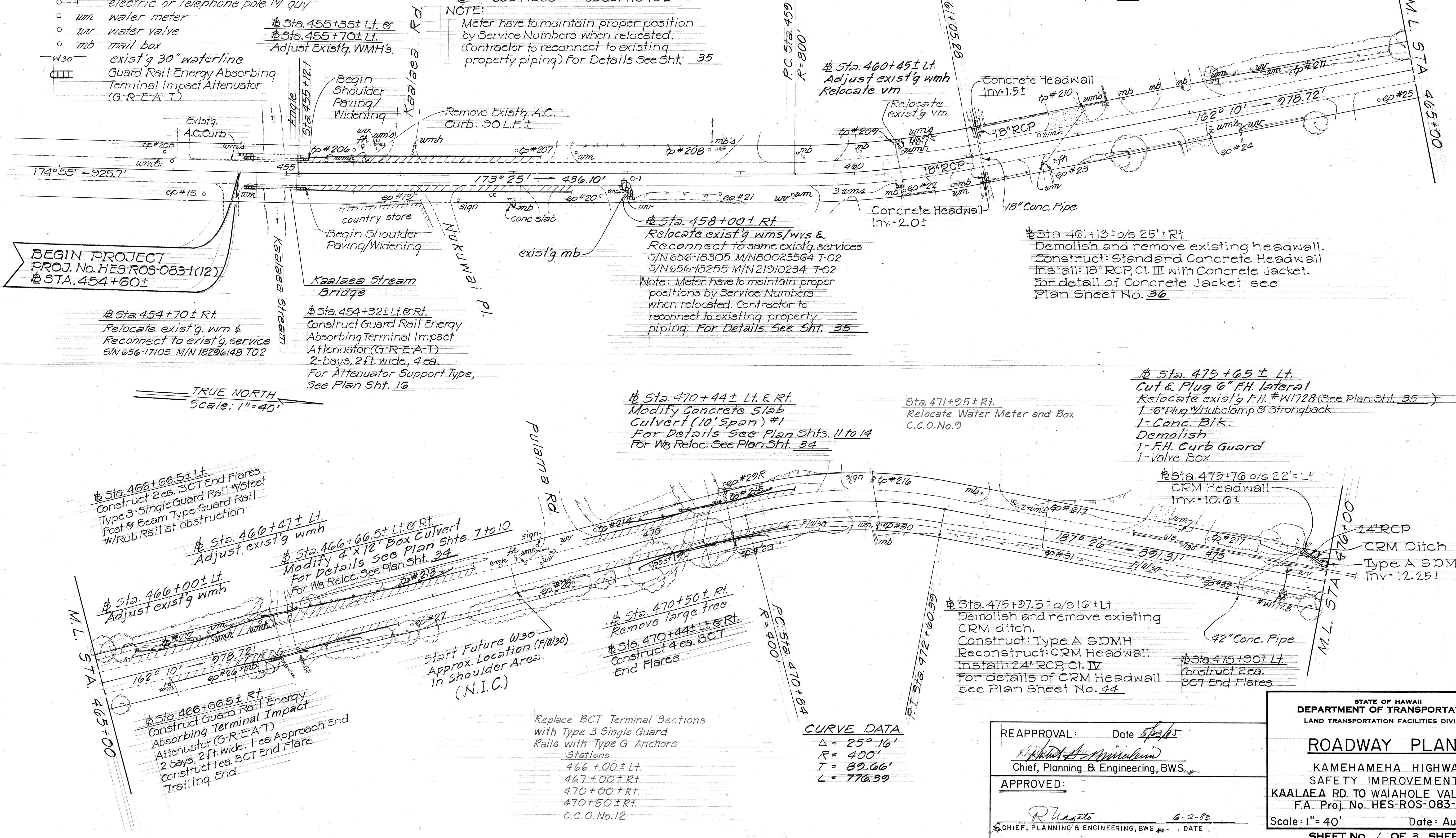
Sta. 454+65± Lt.
Relocate exist'g wms/wvs & reconnect to existing service.
① S/N 656-17105 M/N 5592342 T02
② 656-17155 78023413 T02
③ 656-17205 77023551 B02
④ 656-17255 81025013 BAO2
⑤ 656-17305 80021416 T02

NOTE:
Meter have to maintain proper position by Service Numbers when relocated. (Contractor to reconnect to existing property piping) For Details See Sht. 35

CURVE DATA
Δ = 11° 15'
R = 800'
T = 78.79'
L = 157.08'

TRUE NORTH
Scale: 1" = 40'

Sta. 461+13± o/s 25± Lt.
Demolish and remove existing headwall. Construct: Standard Concrete Headwall Install: 18" RCP Cl. III with Concrete Jacket. For detail of Concrete Jacket see Plan Sheet No. 36



BEGIN PROJECT
PROJ. No. HES-ROS-083-1(12)
STA. 454+60±

Sta. 454+70± Rt.
Relocate exist'g. wv & Reconnect to exist'g. service S/N 656-17105 M/N 18206148 T02

Sta. 454+92± Lt. & Rt.
Construct Guard Rail Energy Absorbing Terminal Impact Attenuator (G-R-E-A-T) 2-bays, 2 ft. wide, 4 ea. For Attenuator Support Type, See Plan Sht. 16

Sta. 458+00± Rt.
Relocate exist'g wms/wvs & Reconnect to same exist'g. services S/N 656-18305 M/N 80023564 T-02 S/N 656-18255 M/N 21910234 T-02 Note: Meter have to maintain proper positions by Service Numbers when relocated. Contractor to reconnect to existing property piping. For Details See Sht. 35

Sta. 461+13± o/s 25± Rt.
Demolish and remove existing headwall. Construct: Standard Concrete Headwall Install: 18" RCP Cl. III with Concrete Jacket. For detail of Concrete Jacket see Plan Sheet No. 36

Sta. 470+44± Lt. & Rt.
Modify Concrete Slab Culvert (10' Span) #1 For Details See Plan Shts. 11 to 14 For Wb Reloc. See Plan Sht. 34

Sta. 471+25± Rt.
Relocate Water Meter and Box C.C.O. No. 9

Sta. 475+65± Lt.
Cut & Plug 6" F.H. lateral Relocate exist'g F.H. #W1728 (See Plan Sht. 35) 1-6" Plug w/ Hubclamp & Strongback 1-Conc. Blk. Demolish 1-F.H. Curb Guard 1-Valve Box

Sta. 475+76± o/s 22± Lt.
CRM Headwall Inv. = 10.0±

24" RCP CRM Ditch Type A SDMH Inv. = 12.25±

Sta. 475+97.5± o/s 16± Lt.
Demolish and remove existing CRM ditch. Construct: Type A SDMH Reconstruct: CRM Headwall Install: 24" RCP Cl. IV For details of CRM Headwall see Plan Sheet No. 44

Sta. 475+90± Lt.
Construct 2 ea. BCT End Flares

Sta. 466+66.5± Lt.
Construct 2 ea. BCT End Flares Type 3- Single Guard Rail w/ Steel Post & Beam Type Guard Rail w/ Rub Rail at obstruction

Sta. 466+47± Lt.
Adjust exist'g wv
Sta. 466+66.5± Lt. & Rt.
Modify 4' x 12' Box Culvert For Details See Plan Sht. 34 For Wb Reloc. See Plan Sht. 34

Sta. 466+00± Lt.
Adjust exist'g wv

Sta. 466+66.5± Rt.
Construct Guard Rail Energy Absorbing Terminal Impact Attenuator (G-R-E-A-T) 2 bays, 2 ft. wide, 1 ea Approach End Construct 1 ea. BCT End Flare Trailing End.

Start Future W30 Approx. Location (F/W30) (N.I.C.)

Sta. 470+50± Rt.
Remove large tree
Sta. 470+44± Lt. & Rt.
Construct 4 ea. BCT End Flares

Replace BCT Terminal Sections with Type 3 Single Guard Rails with Type G Anchors Stations
466+00± Lt.
467+00± Rt.
470+00± Rt.
470+50± Rt.
C.C.O. No. 12

CURVE DATA
Δ = 25° 16'
R = 400'
T = 89.66'
L = 776.39'

REAPPROVAL: Date 5/2/85
Chief, Planning & Engineering, BWS
APPROVED: R. Nagata
CHIEF, PLANNING & ENGINEERING, BWS DATE 6-2-85

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY
SAFETY IMPROVEMENTS
KAALAEA RD. TO WAIHOLE VALLEY RD.
F.A. Proj. No. HES-ROS-083-1(12)
Scale: 1" = 40' Date: Aug., 1982
SHEET No. 7 OF 3 SHEETS

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

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

