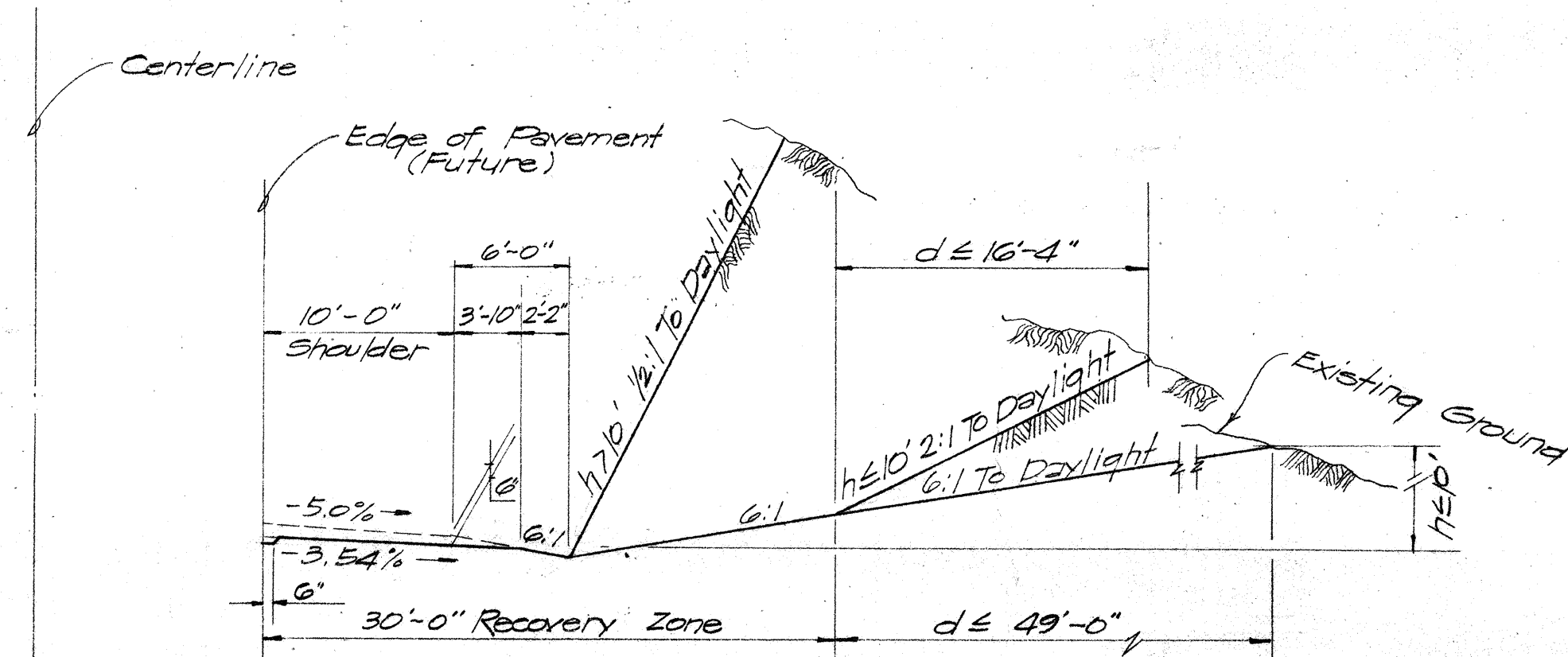
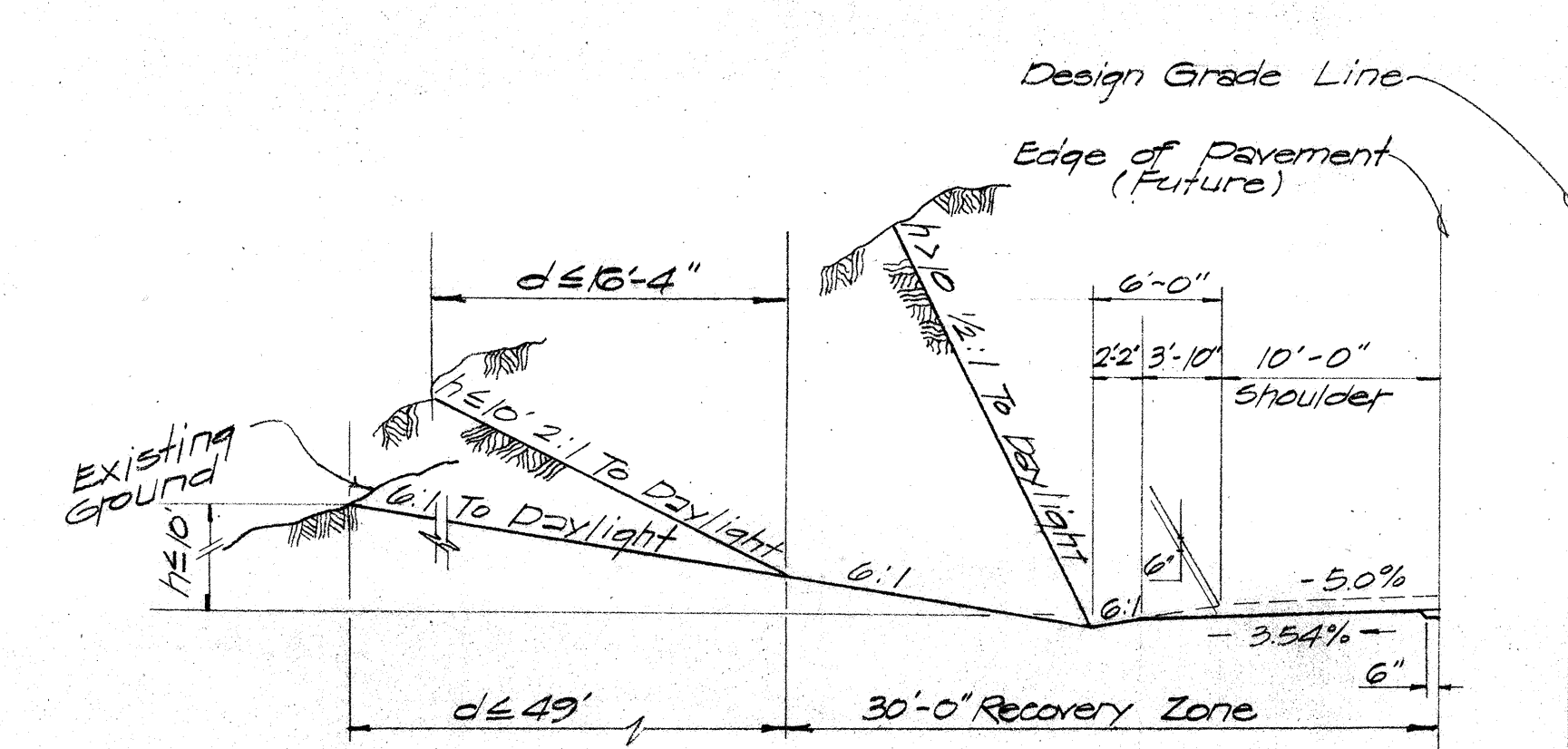
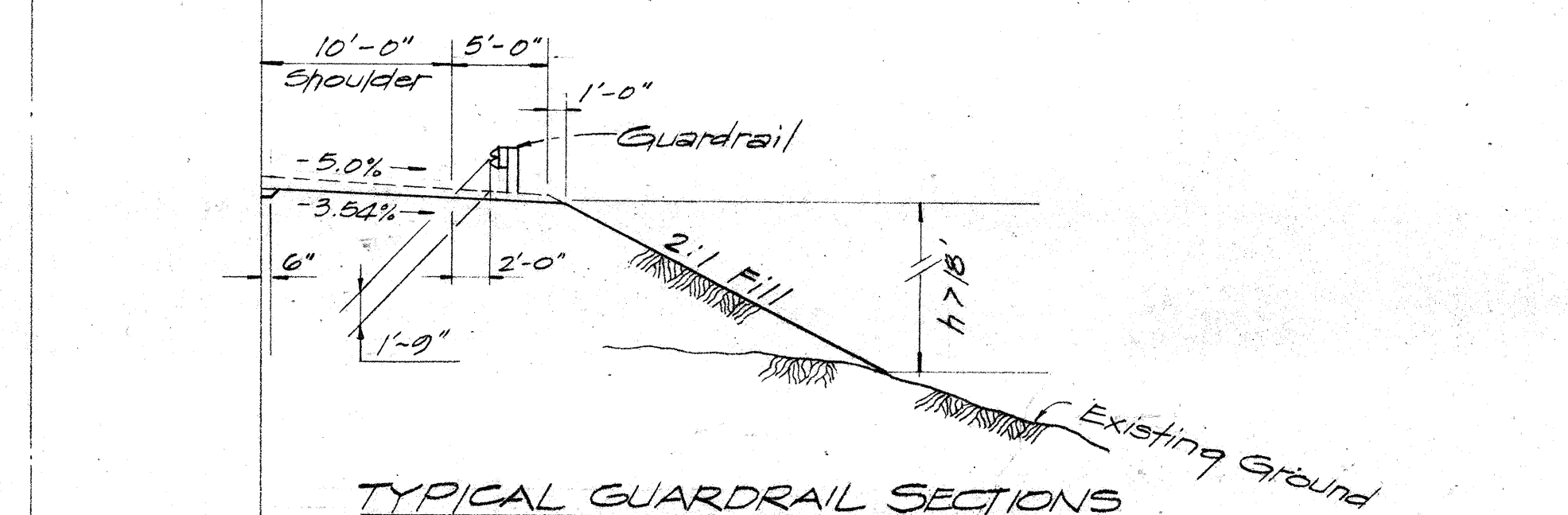
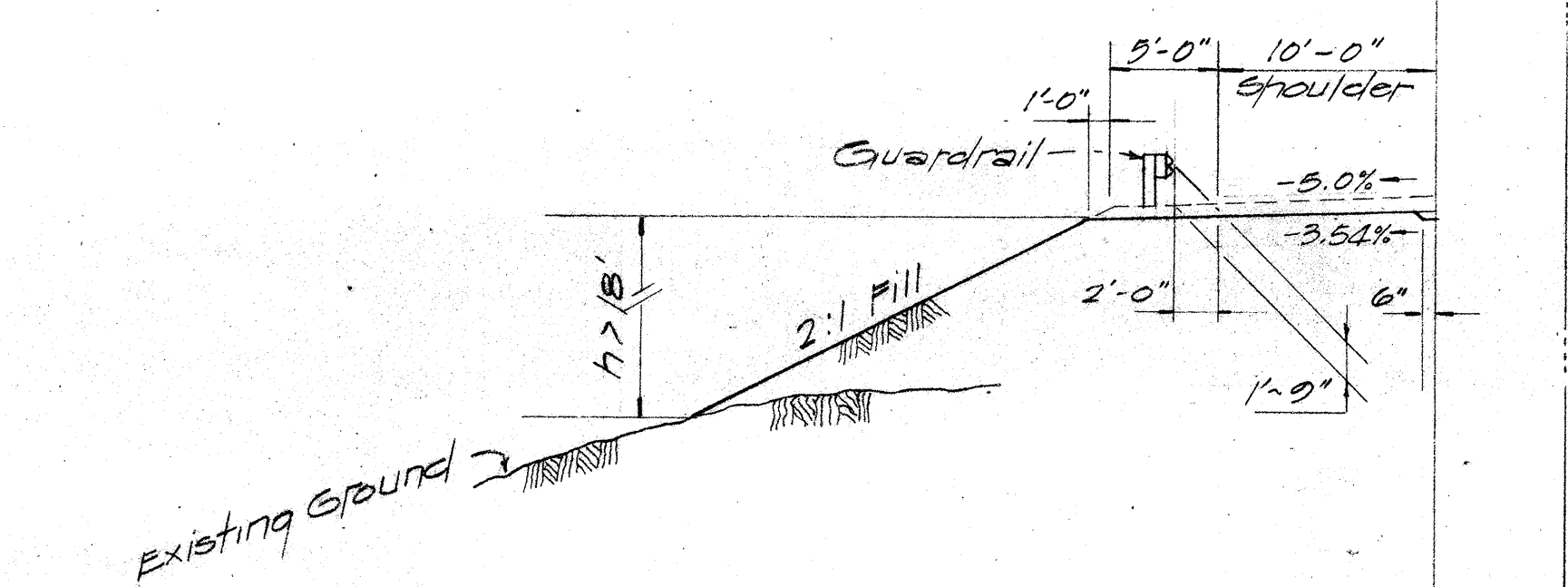




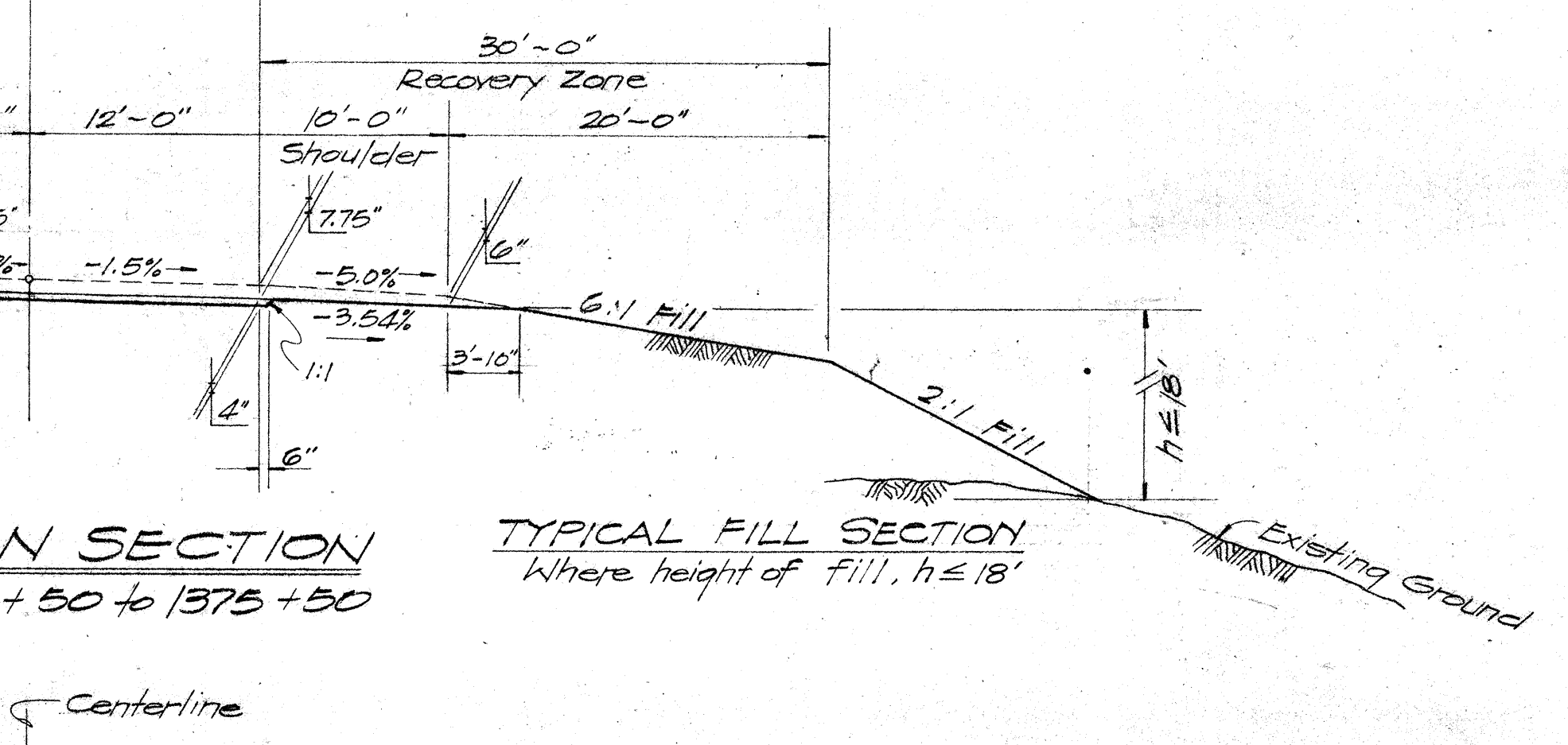
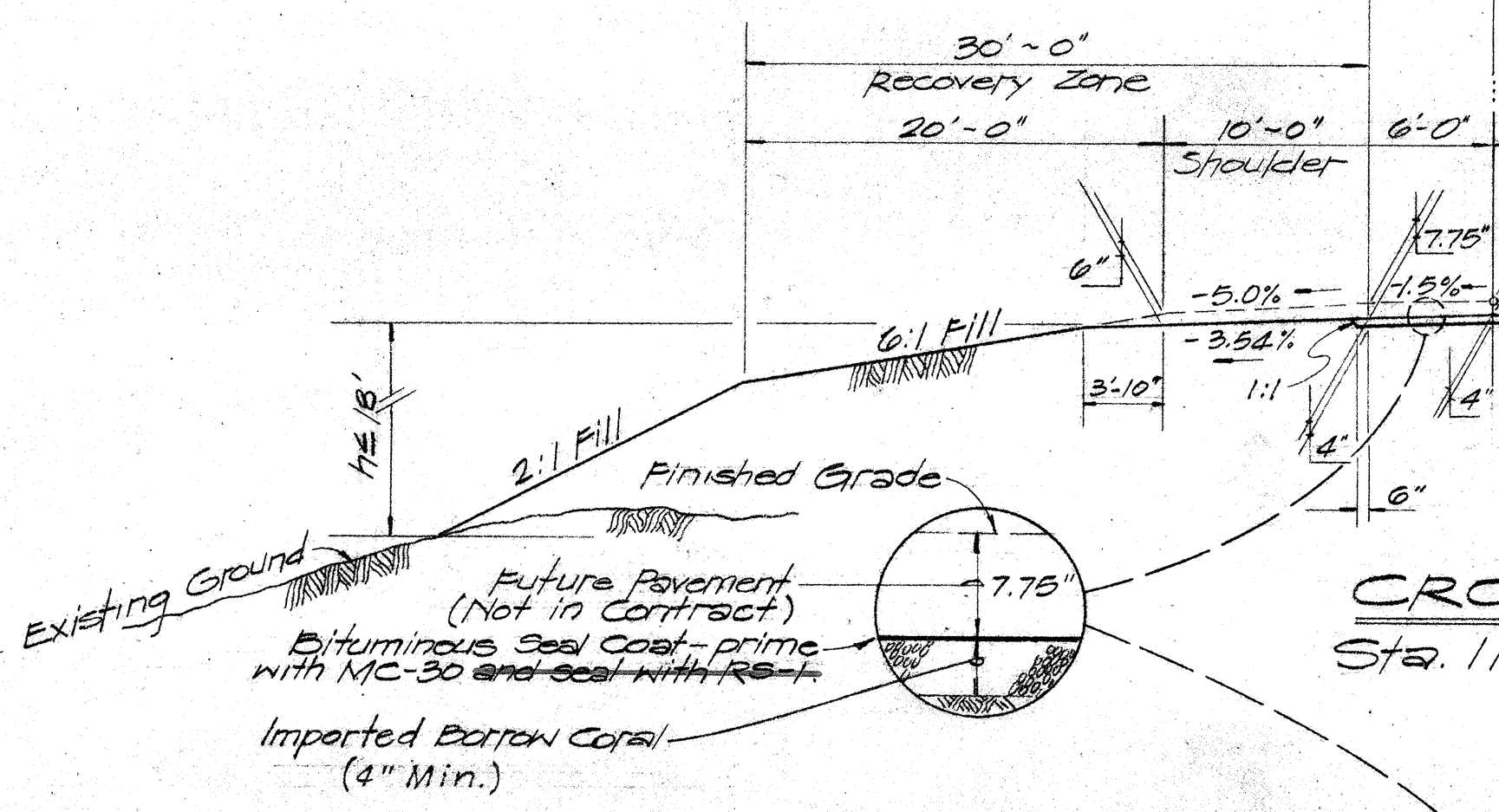
TYPICAL CUT SECTIONS

1. Apply 6:1 where $h \leq 10'$ & $d \leq 49'$.
2. Apply 2:1 from end of recovery zone, where condition "1" is not met, $h \leq 10'$ & $d \leq 16'-4"$.
3. Apply 12:1 from 16' beyond edge of pavement if $h > 10'$.



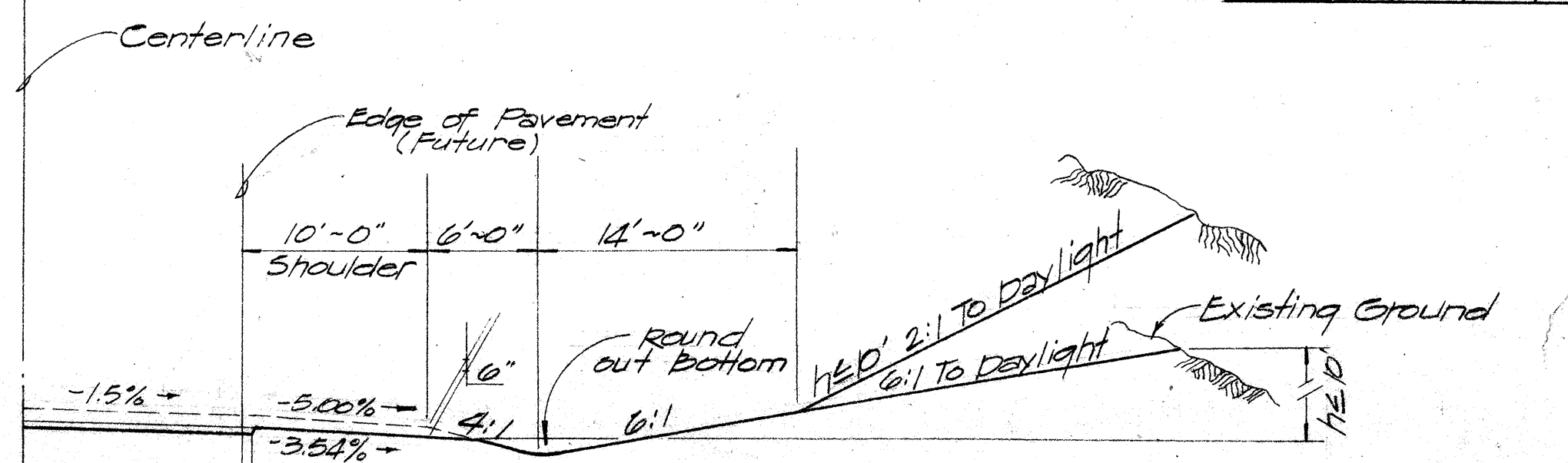
TYPICAL GUARDRAIL SECTIONS

Where $h > 18'$
(See Sheet 5 of 62 for Guardrail Schedule)
(GUARDRAILS DELETED FROM CONTRACT)



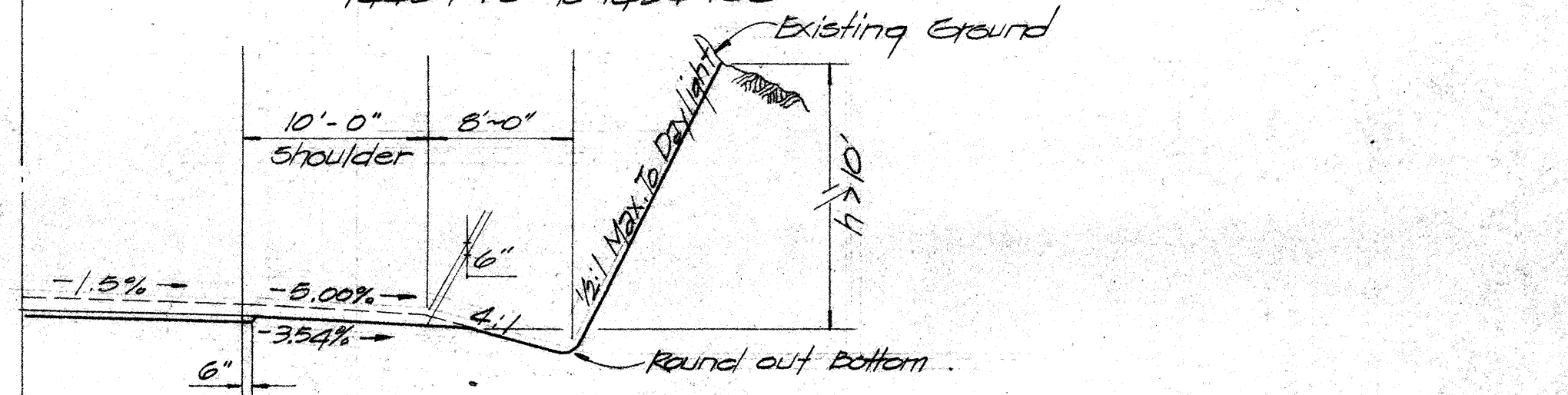
CROWN SECTION
Sta. 1198+50 to 1375+50

TYPICAL FILL SECTION
Where height of fill, $h \leq 18'$



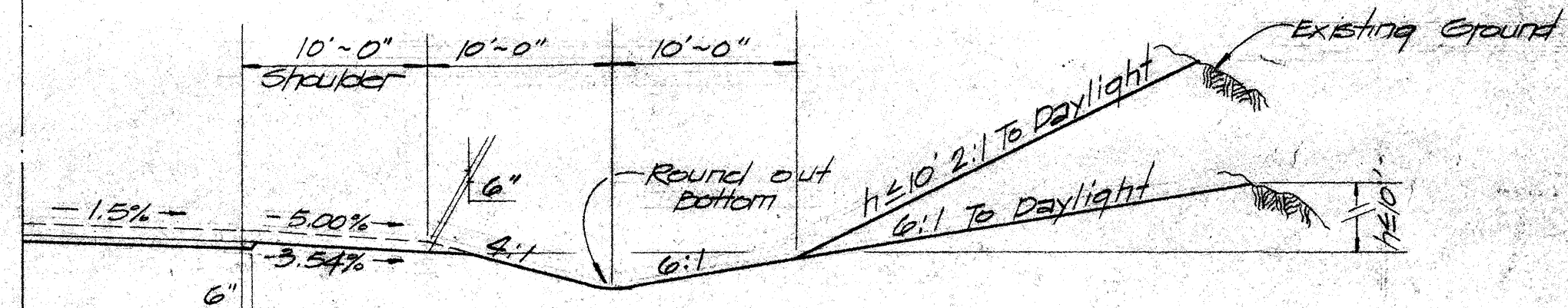
TYPE I DITCH SECTION

- Sta. 1231+00 to 1250+00
1257+00 to 1300+75
1301+75 to 1303+25
1303+75 to 1304+50
1306+50 to 1401+75
1403+25 to 1407+90
1430+00 to 1440+25
1445+25 to 1446+75
1448+75 to 1454+00



TYPE II DITCH SECTION

- Sta. 1300+75 to 1301+75
1303+25 to 1303+75
1304+50 to 1306+00
1401+75 to 1403+25
1440+25 to 1445+25
1446+75 to 1448+75



TYPE III DITCH SECTION

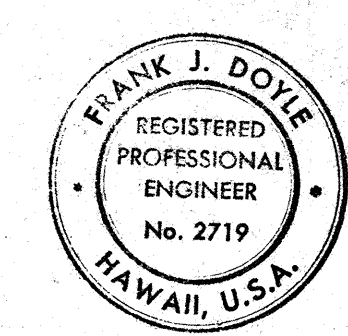
- Sta. 1198+50 to 1230+50

All fill areas between the following stations shall conform to the typical fill section where $h \leq 18'$

Station Limits		Side
1275+50	to 1277+00	Left
1279+00	to 1280+00	Right
1323+50	to 1327+00	Left
1325+00	to 1326+00	Right
1342+50	to 1343+50	Left
1349+50	to 1350+50	Left

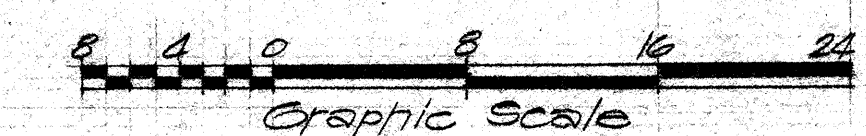
NOTE:

1. Provide smooth transition between sta. 1512+00 (Crown Section) and sta. 1514+99.59 (existing parabolic crown section). For grading phase of project, part of Kawaihae-Hapuna Rd. to remain undisturbed.
2. Provide smooth shoulder and side slope transition between crown sections and full super-elevated sections: Sta. 1375+50 and 1378+50, 1438+17.78 and 1440+67.78, 1440+67.78 and 1443+17.78, 1459+50 and 1462+50.
3. The typical shoulder and side slope sections drawn above applies to all crown sections.
4. Provide pavement transition between 2 lane crown section and crown section at Hapuna Intersection: Sta. 1491+55 and 1501+15, Sta. 1507+04.86 and 1519+30.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Frank J. Doyle
Signature

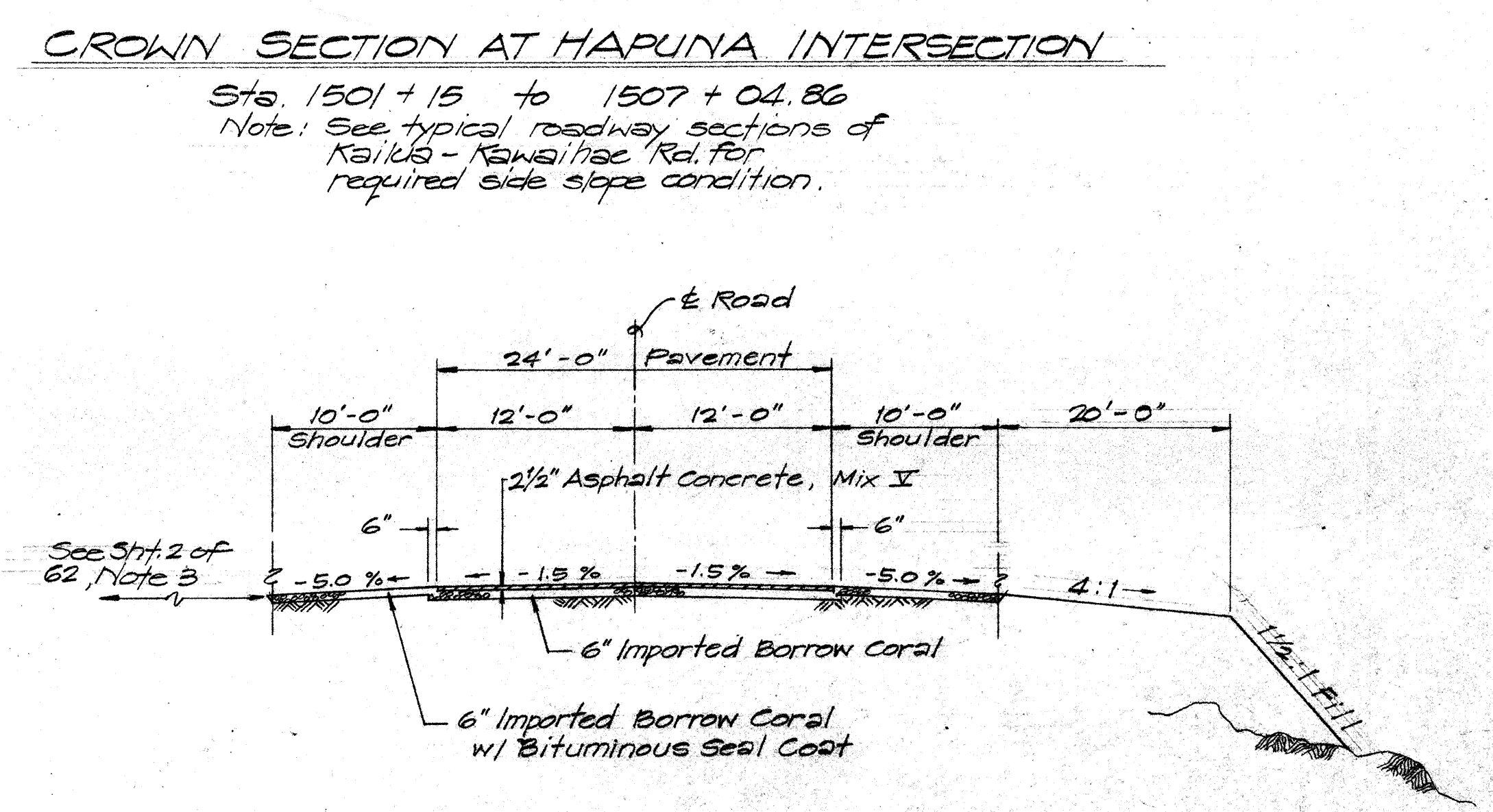
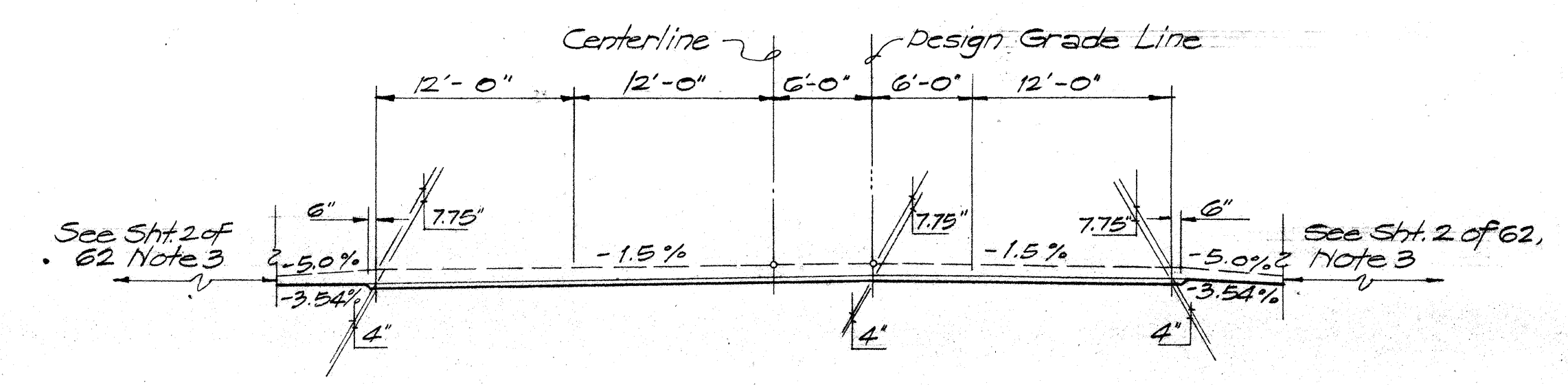
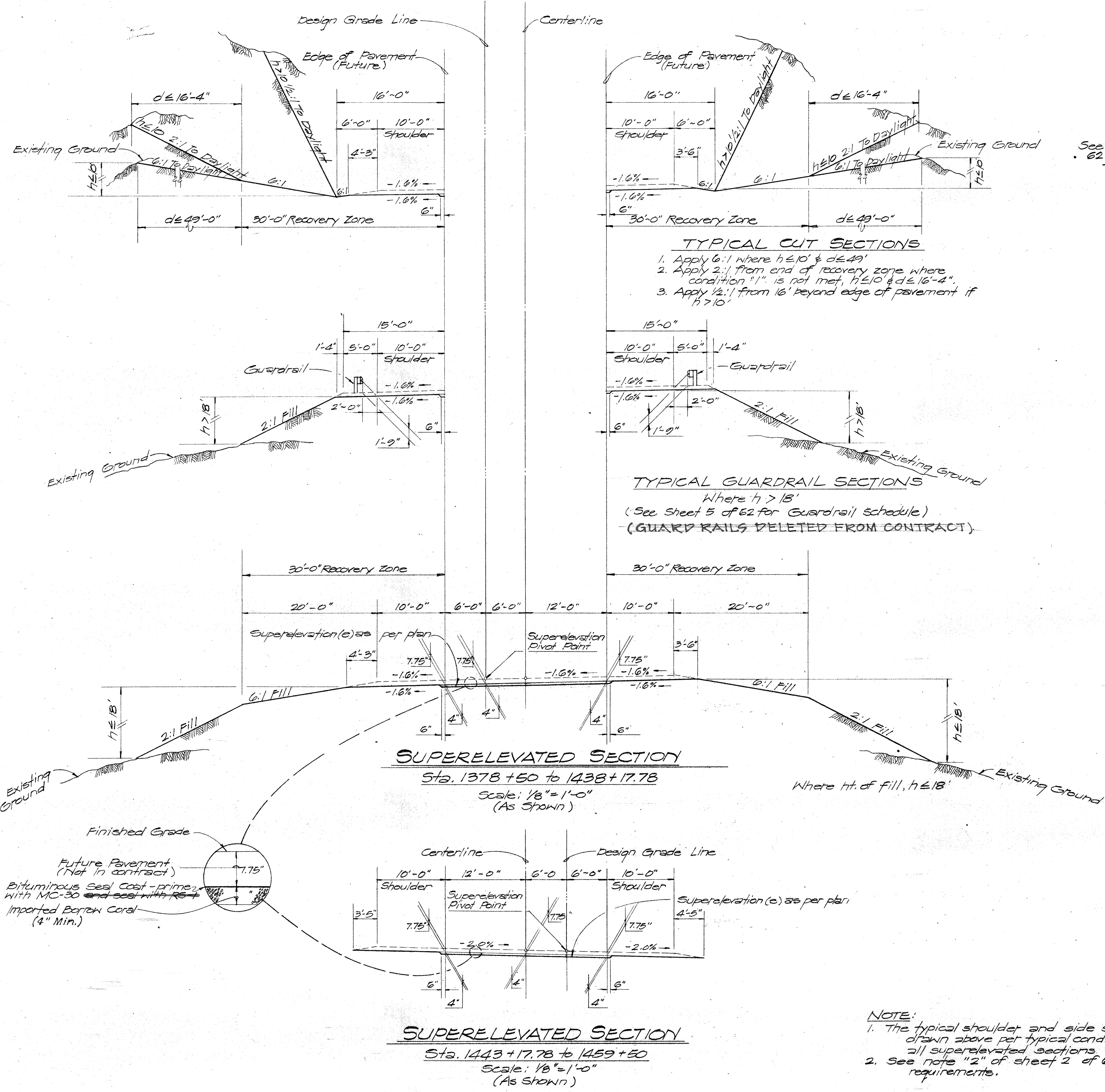
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL ROADWAY SECTIONS
KAILUA-KAWAIHAE ROAD
(ANAEHOOMALU-HAPUNA)



SCALE: AS NOTED
SHEET No. 1 OF 2 SHEETS

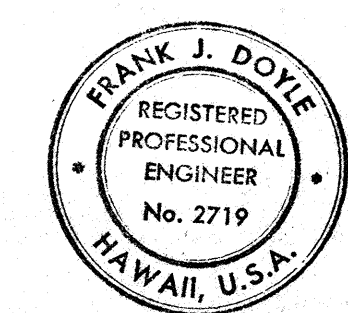
OCT. 18, 1971 ADD. 2

ORIGINAL PLAN
DRAWN BY
CHECKED BY
DATE
NO.



DATE _____
SURVEY OBTAINED BY _____
DRAWN BY _____
DESIGNED BY _____
CHECKED BY _____
ORIGINAL PLAN _____
NOTE BOOK _____
No. _____

NOTE:
1. The typical shoulder and side slope sections drawn above per typical condition applies to all superelevated sections.
2. See note "2" of sheet 2 of 62 for transition requirements.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Frank J. Dore
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL ROADWAY SECTIONS
KAILUA-KAWAILAE ROAD
(AUAHOOMALU-HAPUNA)

SCALE: AS NOTED
SHEET No. 2 OF 2 SHEETS