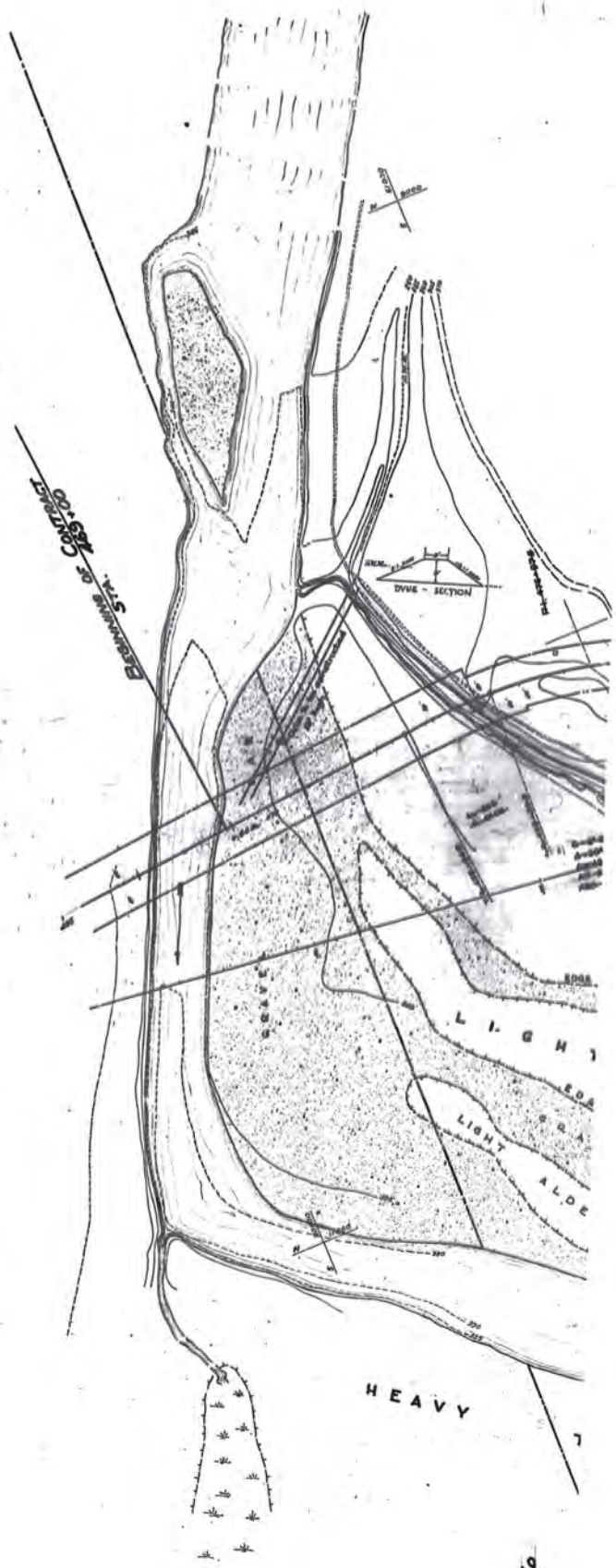


PROJECT No 683

DEPARTMENT OF HIGHWAYS

PLAN

TERRACE KITIMAT HIGHWAY

KITIMAT RIVER - NALBEELA CREEK

STA. 460+00 - 898+00

8.12 MILES

Scale:- 1" = 100'

SURVEY BY McELHANNEY & McRAE (CONSULTANTS) 1964

DRAWN BY — DITTO —

TRACED BY R.A.

LOCATION PLAN No. 251-1

APPROVED

Assistant Engineer — Date:- 27th July 1965

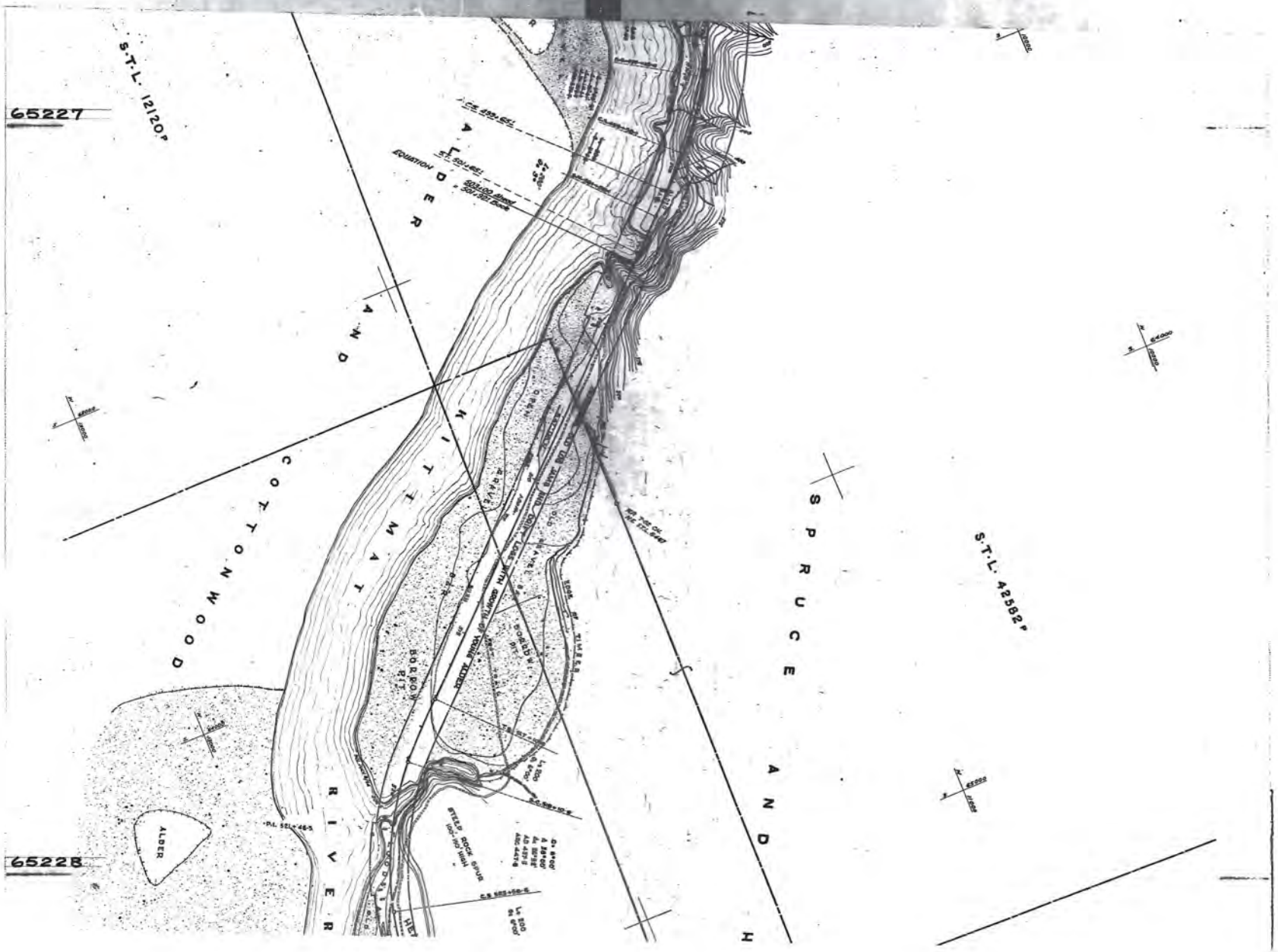
Chief Engineer — Date:- July 29th 1965

PLAN No. 1 of 2 PLANS

KITIMAT RIVER — KITIMAT

65226

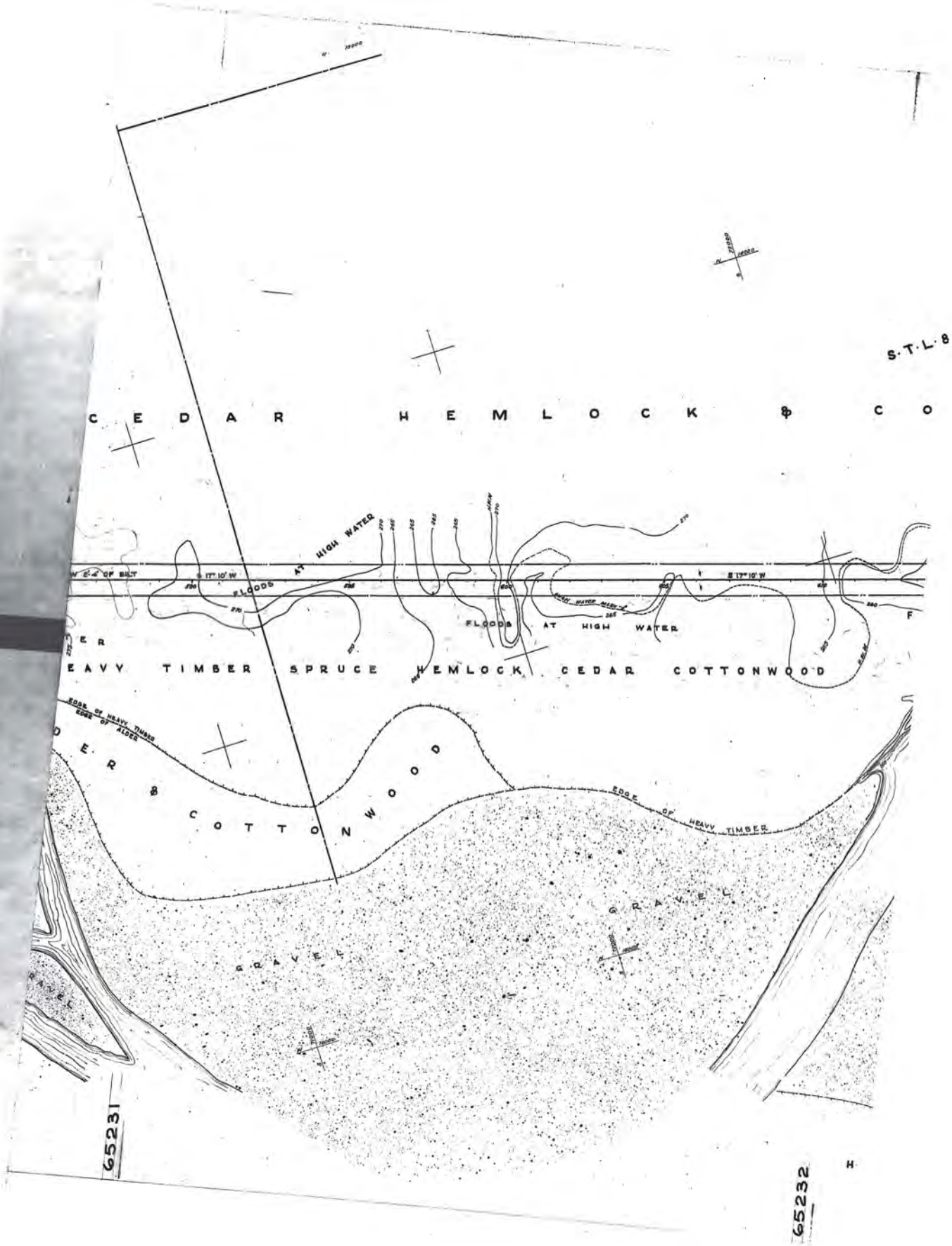
HEAVY TIMBER
DAYLIGHT CUT
FOR BORROW
HEAVY TIMBER
LIGHT ALDER
LIGHT ALDER
LIGHT ALDER
EDGE OF ALDER
EDGE OF ALDER
EDGE OF ALDER
LIGHT ALDER
RIVER
GRAVEL BAR
ALDER
KITIMAT
HEAVY TIMBER
65226
65227
S.T.L. 12120'
EQUATION

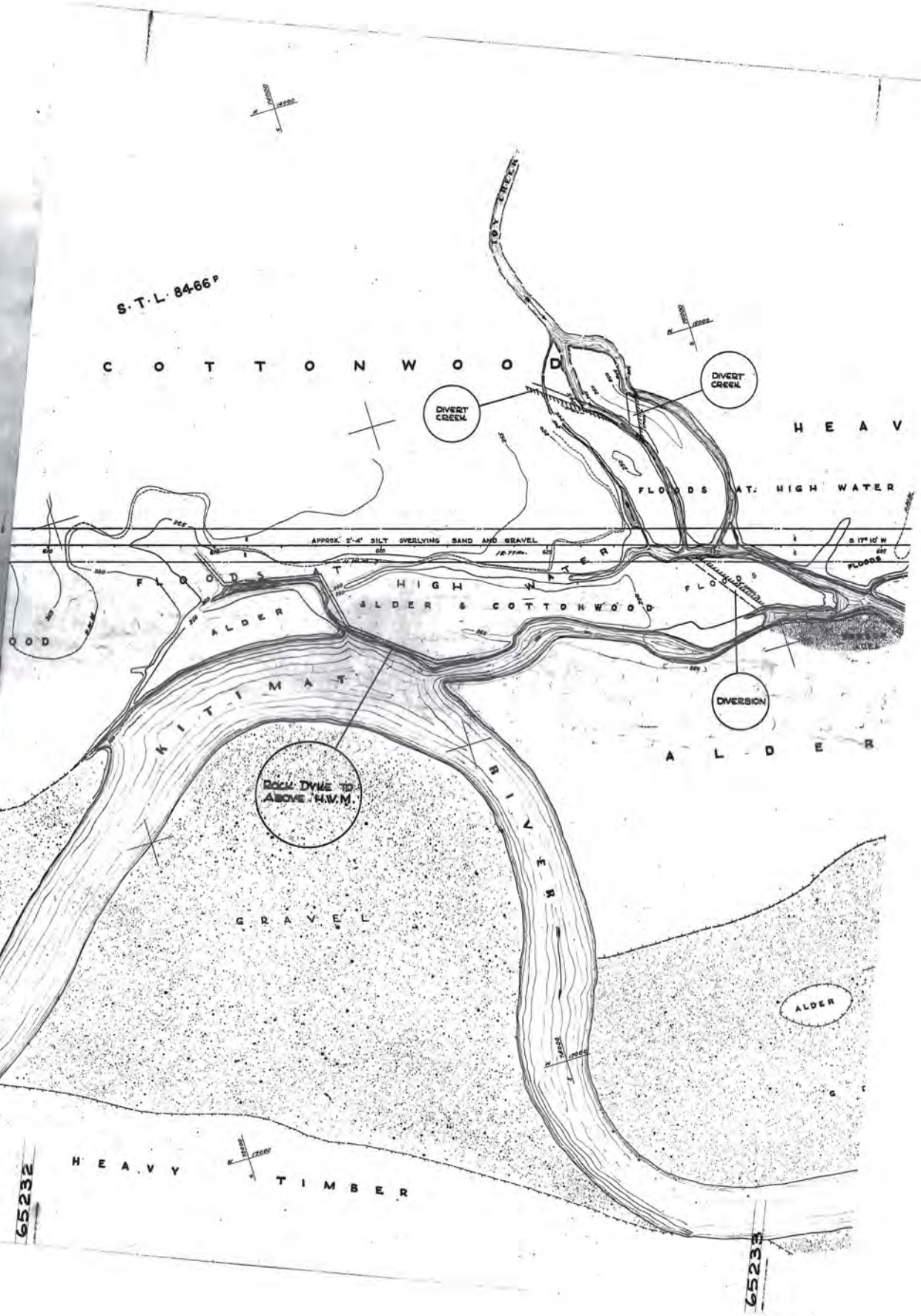

S.T.L. 12120'
65227
ALDER
AND
COTTONWOOD
WHITEMAIT
RIVER
BORROW PIT
STEEP ROCK SPUR
SPRUCE
AND
S.T.L. 42582'
65228

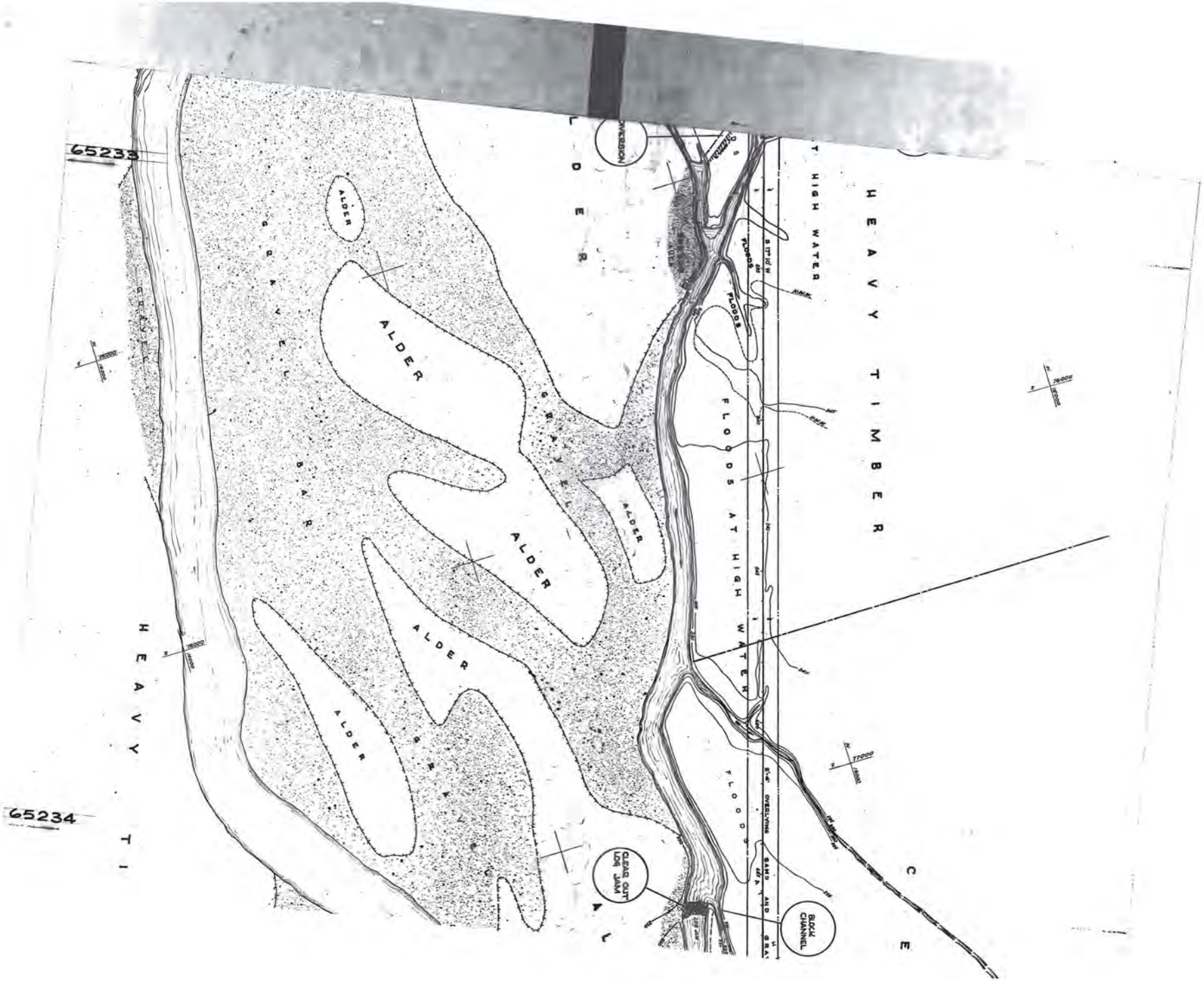
65229
65228
ALDER
ALDER
ALDER
FLOODS
GRAVEL BAR
GRAVEL BAR
RIVER
HEMLOCK TIMBER
COTTONWOOD AND ALDER
COW BRANCH
HENRY TIMBER
LARGE
HEMLOCK

65229
S.T.L. 8467
LARGE HEAVY TIMBER
DIVERSION
ALDER
WATER
BORROW PIT
FLOOD
GRAVEL BAR
ALDER
ALDER
HEAVY TIMBER
KITIMAT
65230

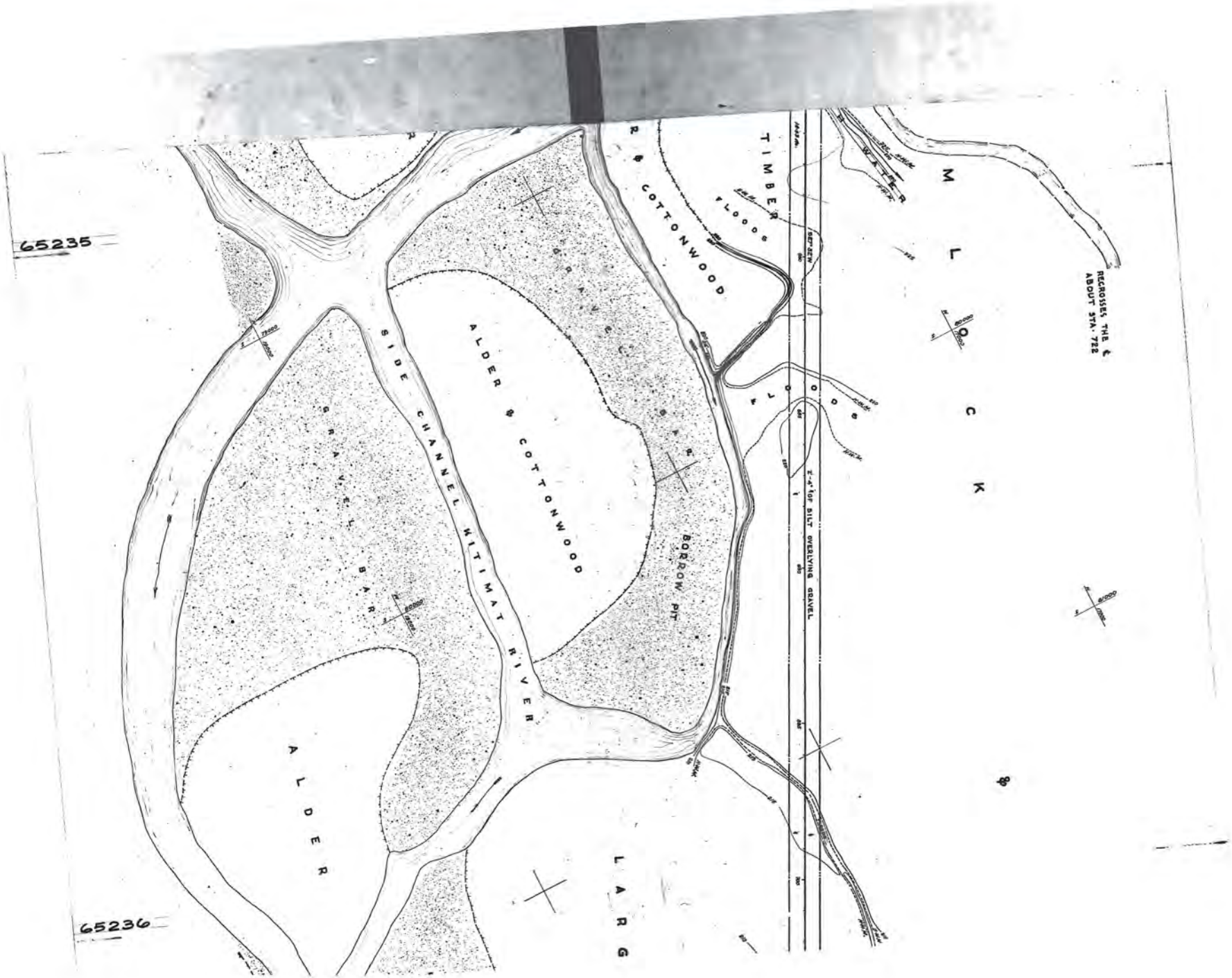
I M B E R S P R U C E C E D A
C = 1°00' L
Δ = 5°45'
AD = 2064
ΔRL = 571-7
EDGE OF HEAVY TIMBER
L D E R
W A T E R
ALDER
BORROW PIT
ALDER
GRAVEL BELOW 2'-6" OF SILT
BLOODS AT HIGH WATER
HEAVY TIMI
GRAVEL BAR
EDGE OF HEAVY TIMBER
EDGE OF ALDER
A L D E R
R I V E R
GRAVEL
BER
K I T I M A T
GRAVEL BAR
EDGE OF HEAVY TIMBER
ALDER
GRAVEL
65230
65231

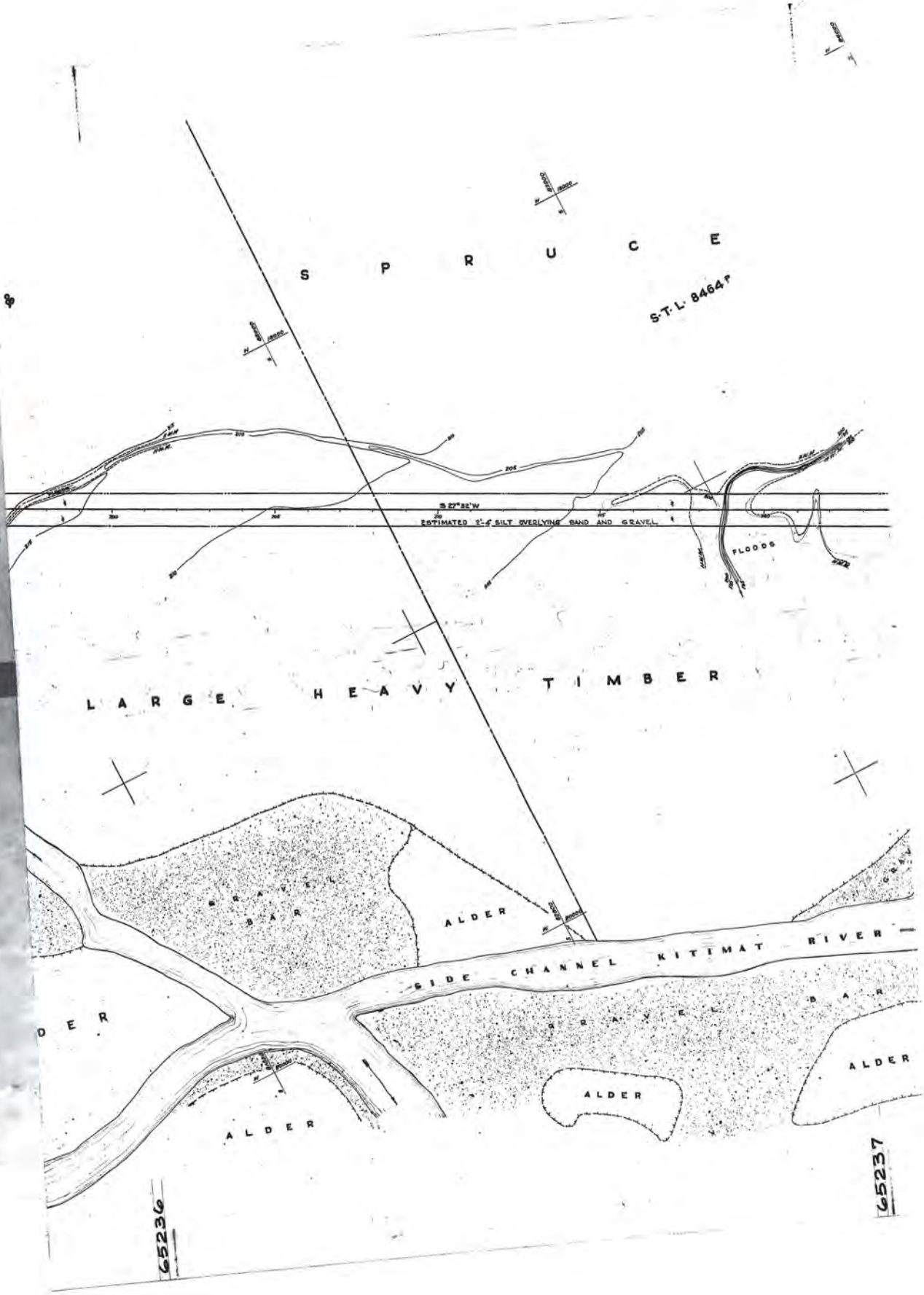

S·T·L·8
C E D A R H E M L O C K & C O
FLOODS AT HIGH WATER
FLOODS AT HIGH WATER
EAVY TIMBER SPRUCE HEMLOCK CEDAR COTTONWOOD
EDGE OF HEAVY TIMBER
EDGE OF ALDER
O E R & C O T T O N W O O D
EDGE OF HEAVY TIMBER
G R A V E L
G R A V E L
65231
65232

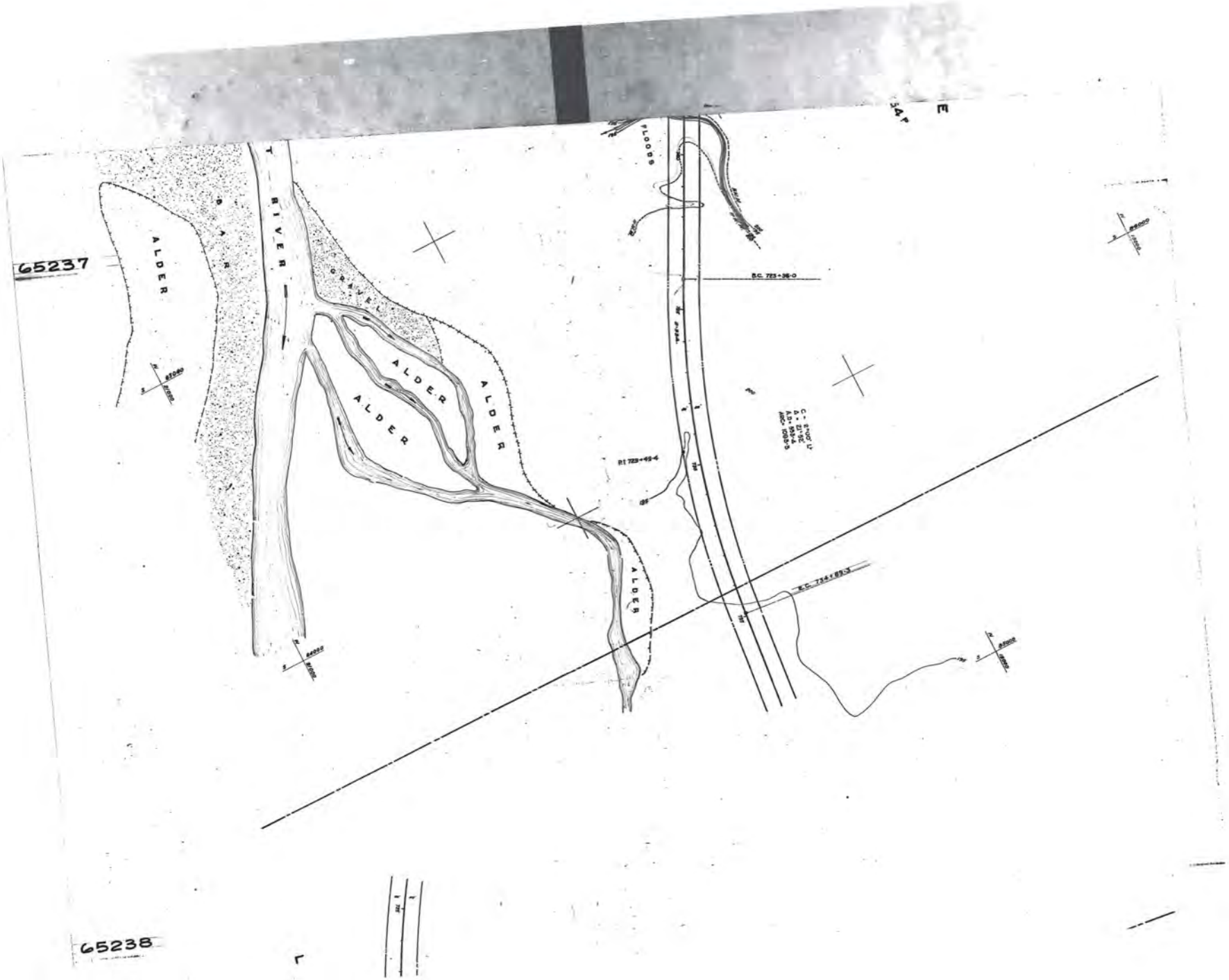

S·T·L· 8466 P
COTTONWOOD
DIVERT CREEK
DIVERT CREEK
HEAV
FLOODS AT HIGH WATER
APPROX. 2'-4" SILT OVERLYING SAND AND GRAVEL
S 17° 10' W
FLOODS
FLOODS AT HIGH WATER
ALDER & COTTONWOOD
ALDER
DIVERSION
ALDER
KITIMAT RIVER
ROCK DYKE TO ABOVE H.W.M.
GRAVEL
ALDER
HEAVY TIMBER
65232
65233

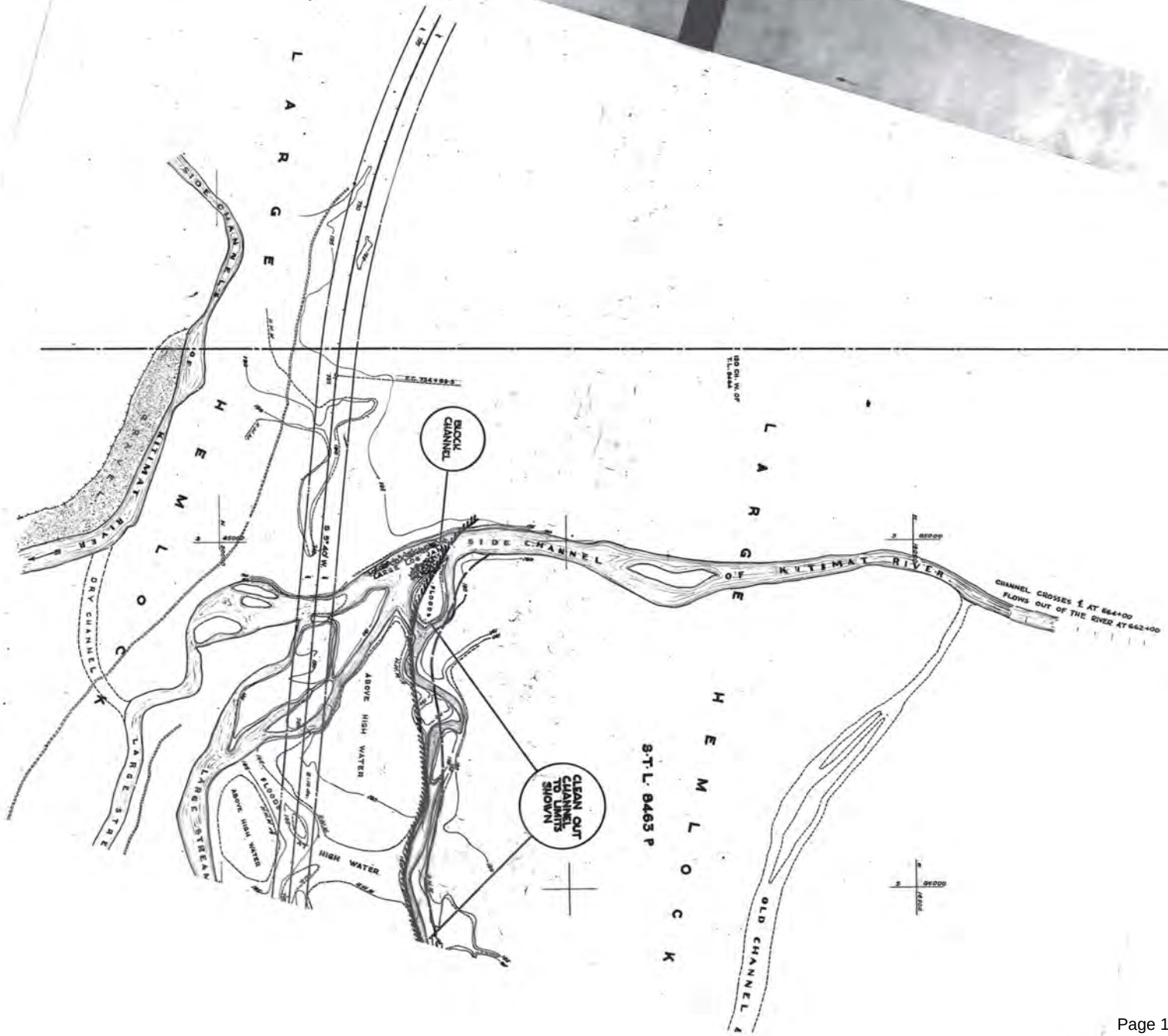

HEAVY TIMBER
HIGH WATER
FLOODS AT HIGH WATER
FLOODS
BLOCK CHANNEL
CLEAR CUT LOG JAM
DIVERSION
ALDER
GRAVEL BAR
65233
65234

C E D A R
H E M L
S.T.L. 8465'
BLOCK CHANNEL
HIGH WATER
SAND AND GRAVEL
FLOODS
HEAVY TIMBER
LOG JAM
CLEAR OUT LOG JAM
BORROW TO CREATE DIVERSION
A L D E R
ALDER & COTTONWOO
KITIMAT RIVER
ALDER
A L D E R
P R A I R I E L B A R
T I M B E R
65234
65235

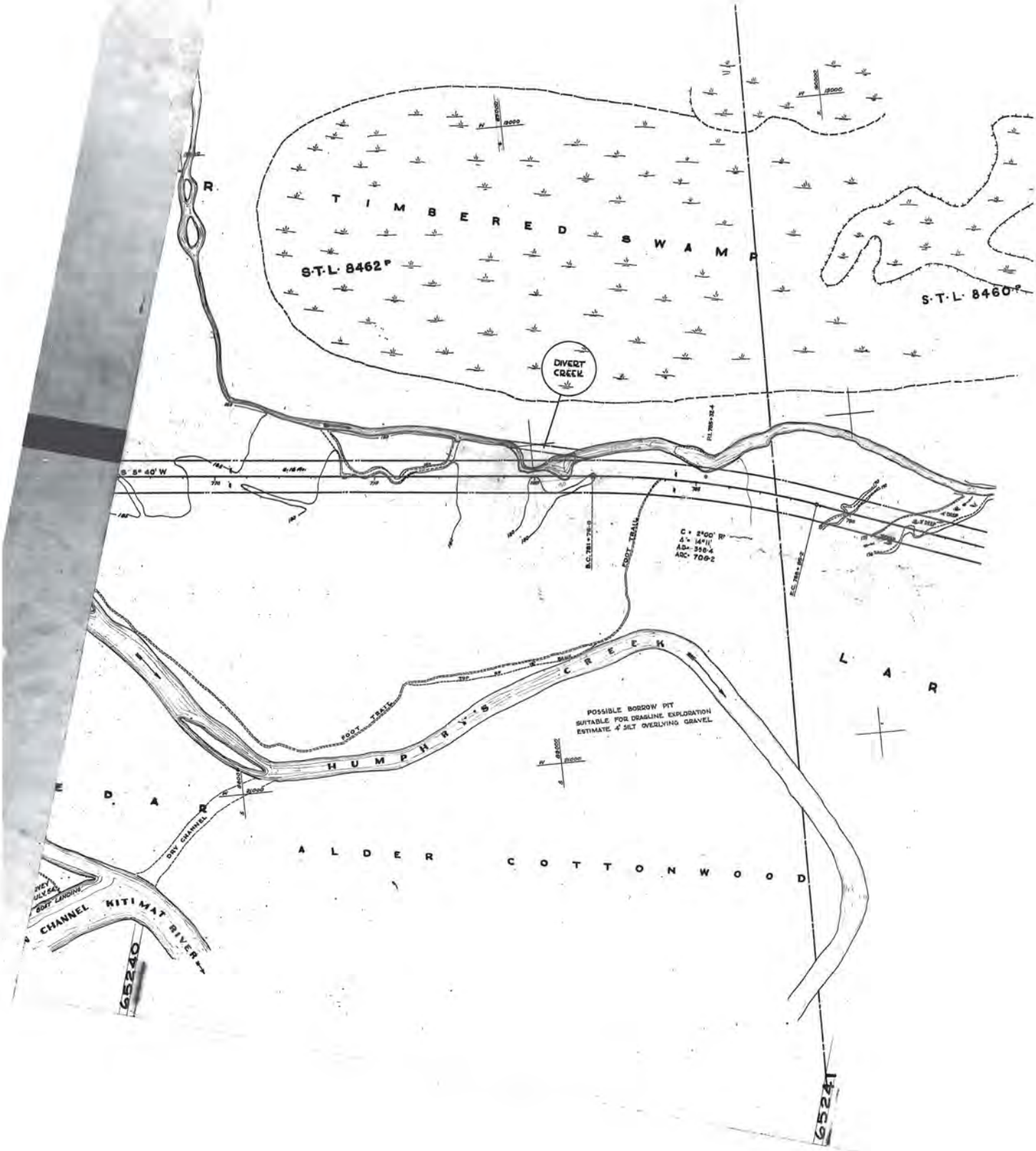

REGROSSES THE ℄ ABOUT STA. 722
M L C K
TIMBER
FLOODS
COTTONWOOD
GRAVEL
BORROW PIT
2'-4' OF SILT OVERLYING GRAVEL
ALDER & COTTONWOOD
SIDE CHANNEL WITIMAT RIVER
GRAVEL BAR
ALDER
LARG
65235
65236


SPRUCE
S.T.L. 8464'
S 27°32' W
ESTIMATED 2'-4' SILT OVERLYING SAND AND GRAVEL
FLOODS
LARGE HEAVY TIMBER
GRAVEL BAR
ALDER
SIDE CHANNEL KITIMAT RIVER
GRAVEL BAR
ALDER
ALDER
ALDER
ALDER
65236
65237

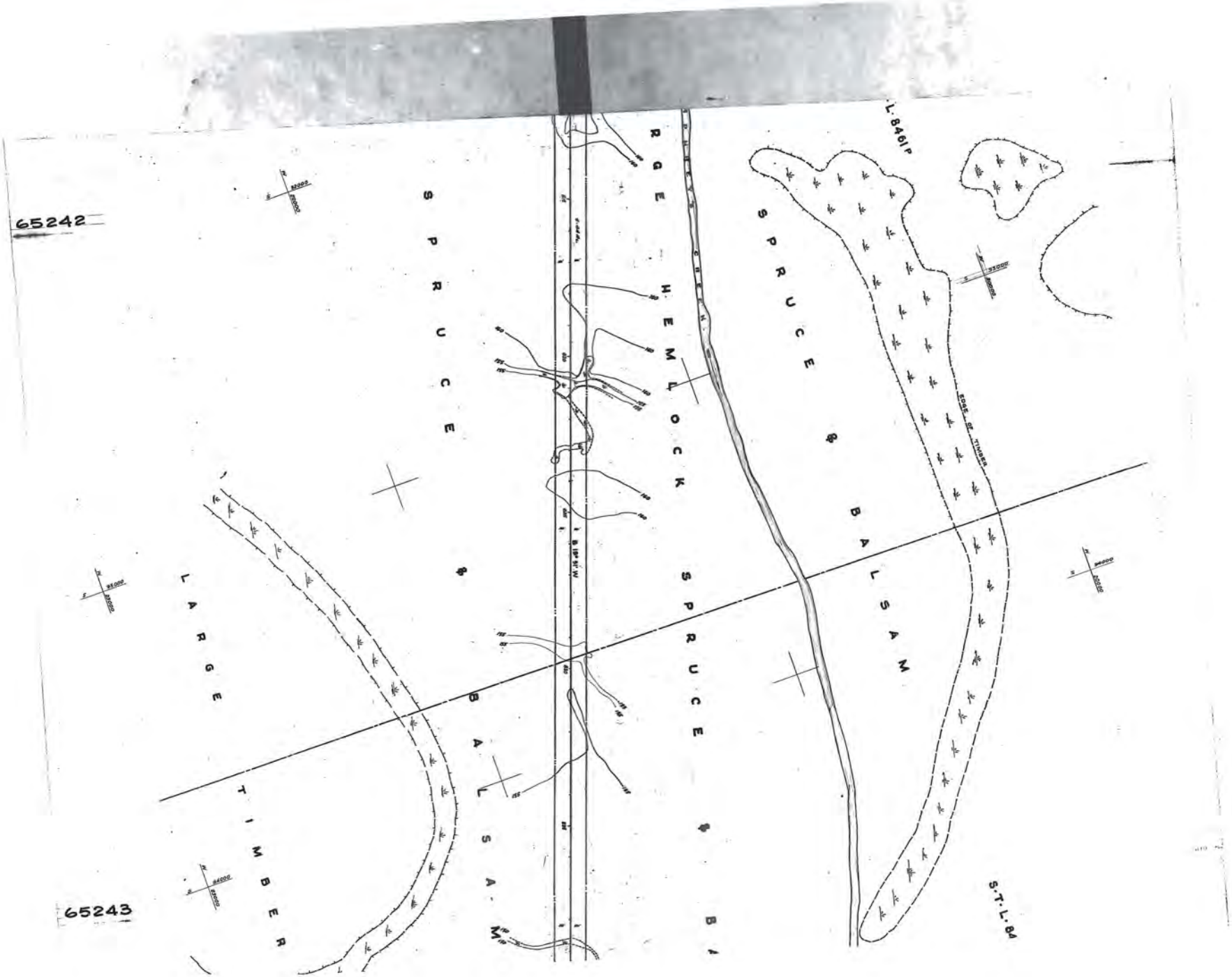

65237
65238
ALDER
BAR
RIVER
GRAVEL
ALDER
ALDER
ALDER
ALDER
FLOOD
B.C. 723+36.0
R1 723+49.4
E.C. 734+89.3
C = 8700' U
Δ = 22°52'
Δ1 = 90°00'
ARC = 1994.5

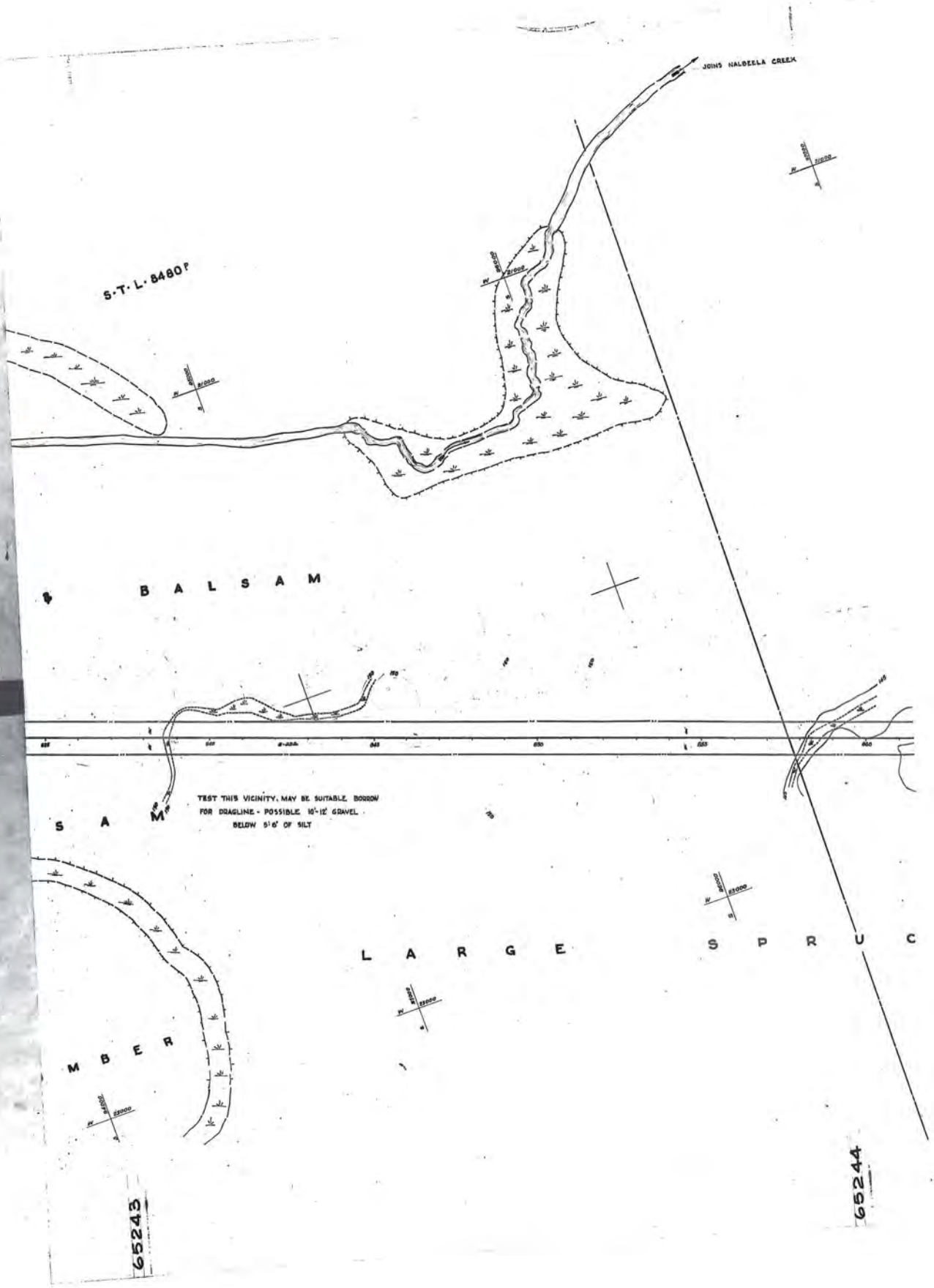

65238
65239
LARGE HEMLOCK
LARGE HEMLOCK
KITIMAT RIVER
SIDE CHANNEL
DRY CHANNEL
LARGE STREAM
ABOVE HIGH WATER
HIGH WATER
FLOODS
BLOCK CHANNEL
CLEAN OUT CHANNEL TO LIMITS SHOWN
SIDE CHANNEL OF KITIMAT RIVER
CHANNEL CROSSES ℄ AT 664+00
FLOWS OUT OF THE RIVER AT 662+00
S·T·L· 8463 P
OLD CHANNEL

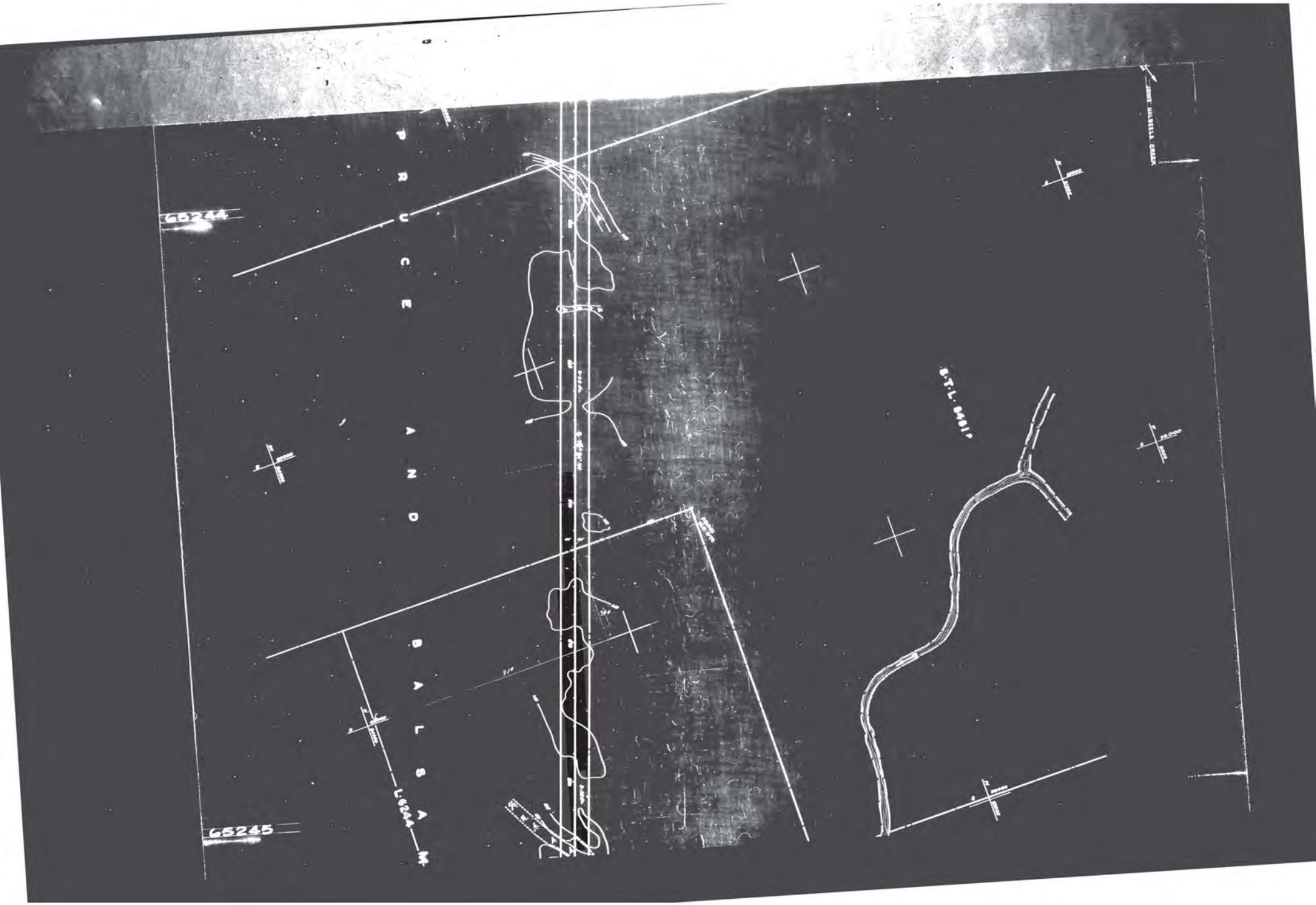
OLD CHANNEL BLOCKED BY BEAVER DAM
CLEAN OUT CHANNEL TO LIMITS SHOWN
SPRUCE & CEDAR
HUMPHRYS CR.
ABOVE HIGH WATER
HIGH WATER
4'-5' OF SILT OVERLYING GRAVEL
FLOODS AT HIGH WATER
S 5° 40' W
LARGE STREAM
FOOT TRAIL
DRY CHANNEL
SITE OF SURVEY CAMP #2 JULY 5-6
GOOD BOAT LANDING
MAIN CHANNEL KITIMAT RIVER
65239
65240

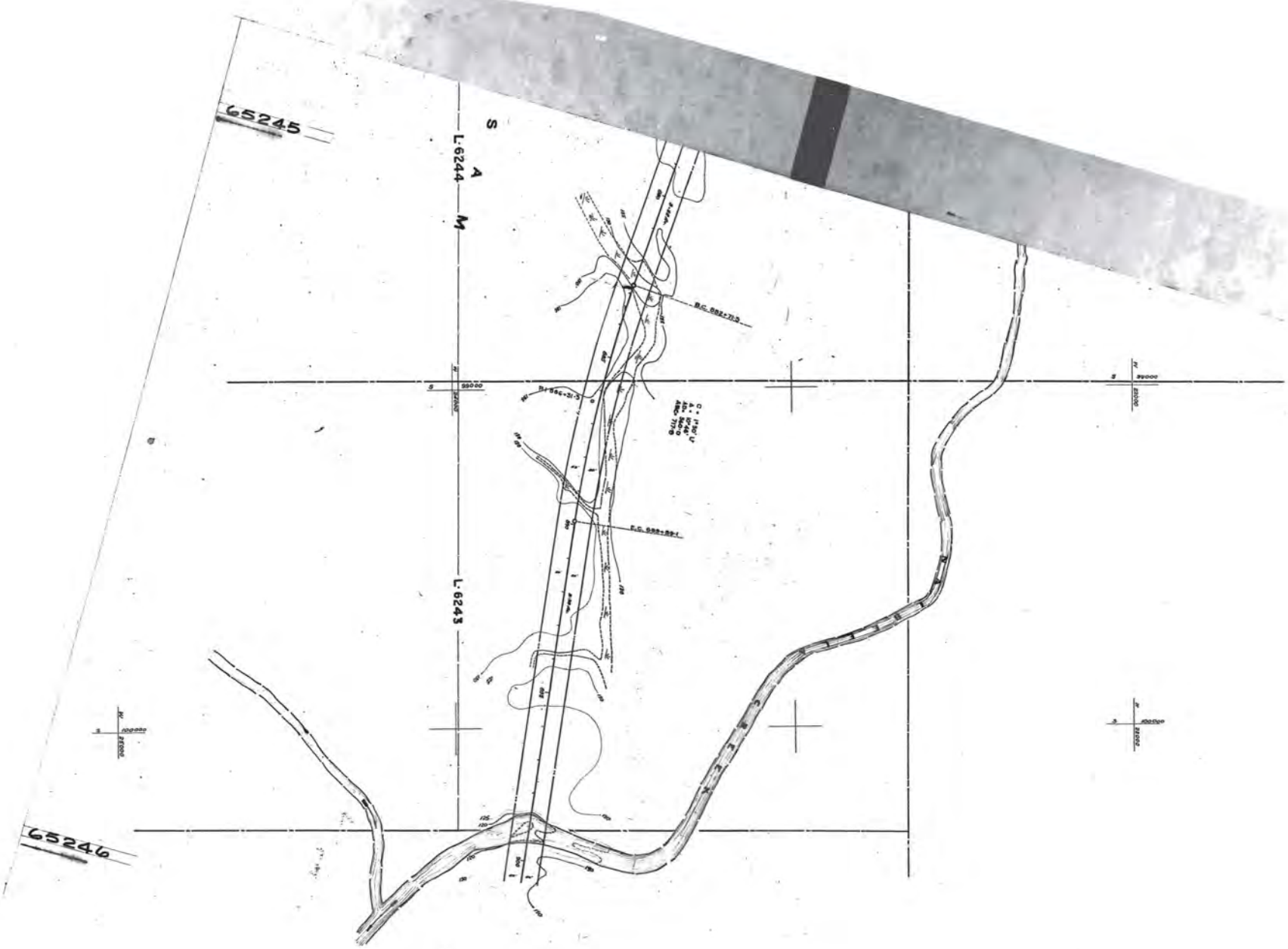

TIMBERED SWAMP
S·T·L· 8462°
S·T·L· 8460°
DIVERT CREEK
S 8° 40' W
C = 2°00' R
Δ = 14°11'
AD = 356·4
ARC = 708·2
FOOT TRAIL
HUMPHRY'S CREEK
POSSIBLE BORROW PIT
SUITABLE FOR DRAGLINE EXPLORATION
ESTIMATE 4' SILT OVERLYING GRAVEL
DRY CHANNEL
ALDER COTTONWOOD
CHANNEL KITIMAT RIVER
65240
65241

65241
65242
LARGE HEMLOCK
LARGE HEMLOCK
S.T.L. 8460P
S.T.L. 8461P
EDGE OF TIMBER
EDGE OF TIMBER
S 19°37' W
SP
SP


65242
65243
L.8461P
S.T.L.84
EDGE OF TIMBER
SPRUCE & BALSAM
SPRUCE & BALSAM
HEMLOCK SPRUCE & BA
LARGE TIMBER


JOINS NALDEELA CREEK
S·T·L·8480'
BALSAM
SAM
TEST THIS VICINITY, MAY BE SUITABLE BORROW
FOR DRAGLINE - POSSIBLE 10'-12' GRAVEL
BELOW 5'6" OF SILT
LARGE SPRUC
MBER
65243
65244


JOHN MILWELLS CREEK
S.T.L. 84012
PRICE AND BALSAM
L.6244 M.
65244
65245


65245
S
A
L-6244
M
L-6243
65246

PROJECT 693
DEPARTMENT OF HIGHWAYS

PROFILE

TERRACE KITIMAT HIGHWAY
KITIMAT RIVER NALBEELA CREEK

STA. 469+00 - 898+00
8.12 MILES

SCALES : HOR. 1"=200 FT.
VERT. 1"=20 FT.

SURVEY BY McEUHANNEY & McRAE (CONSULTANTS) 1954
DRAWN BY ——DITTO——
TRACED BY R.H.V.

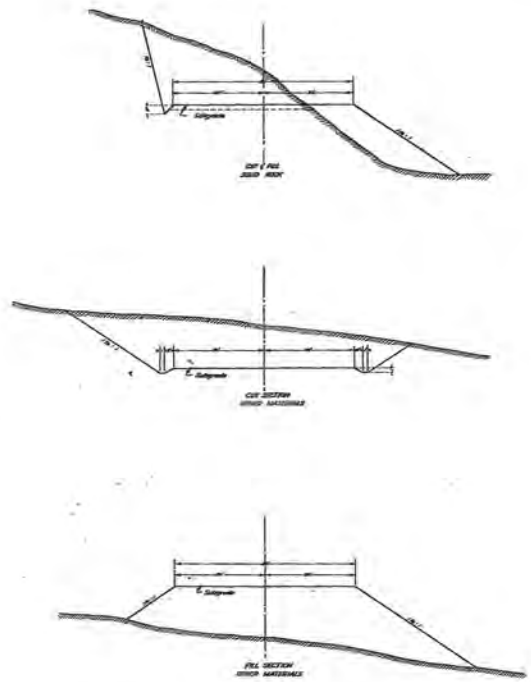
LOCATION PLAN No. 251-2

APPROVED

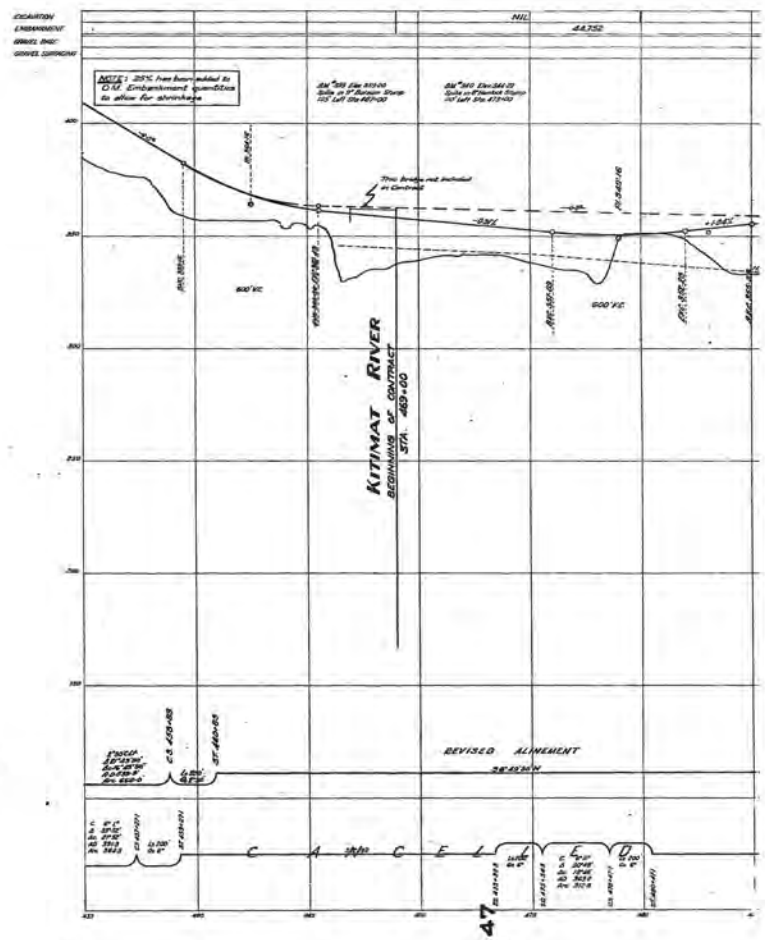
Director of Highways
Date 27th Feb. 1956.

Chief Engineer
Date March 8th 1956

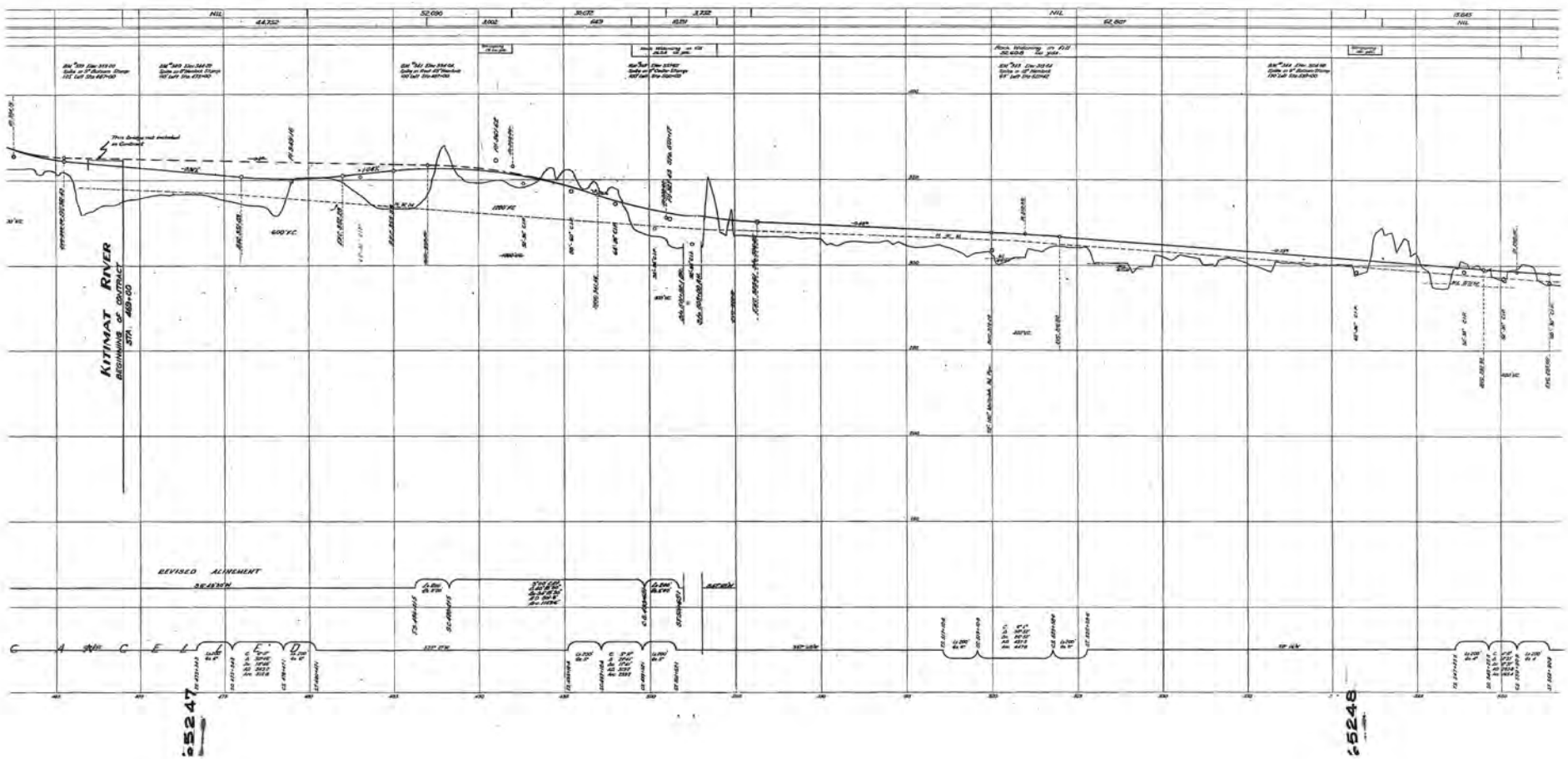
PROFILE No. 1 of 2 PROFILES
KITIMAT RIVER - KITIMAT

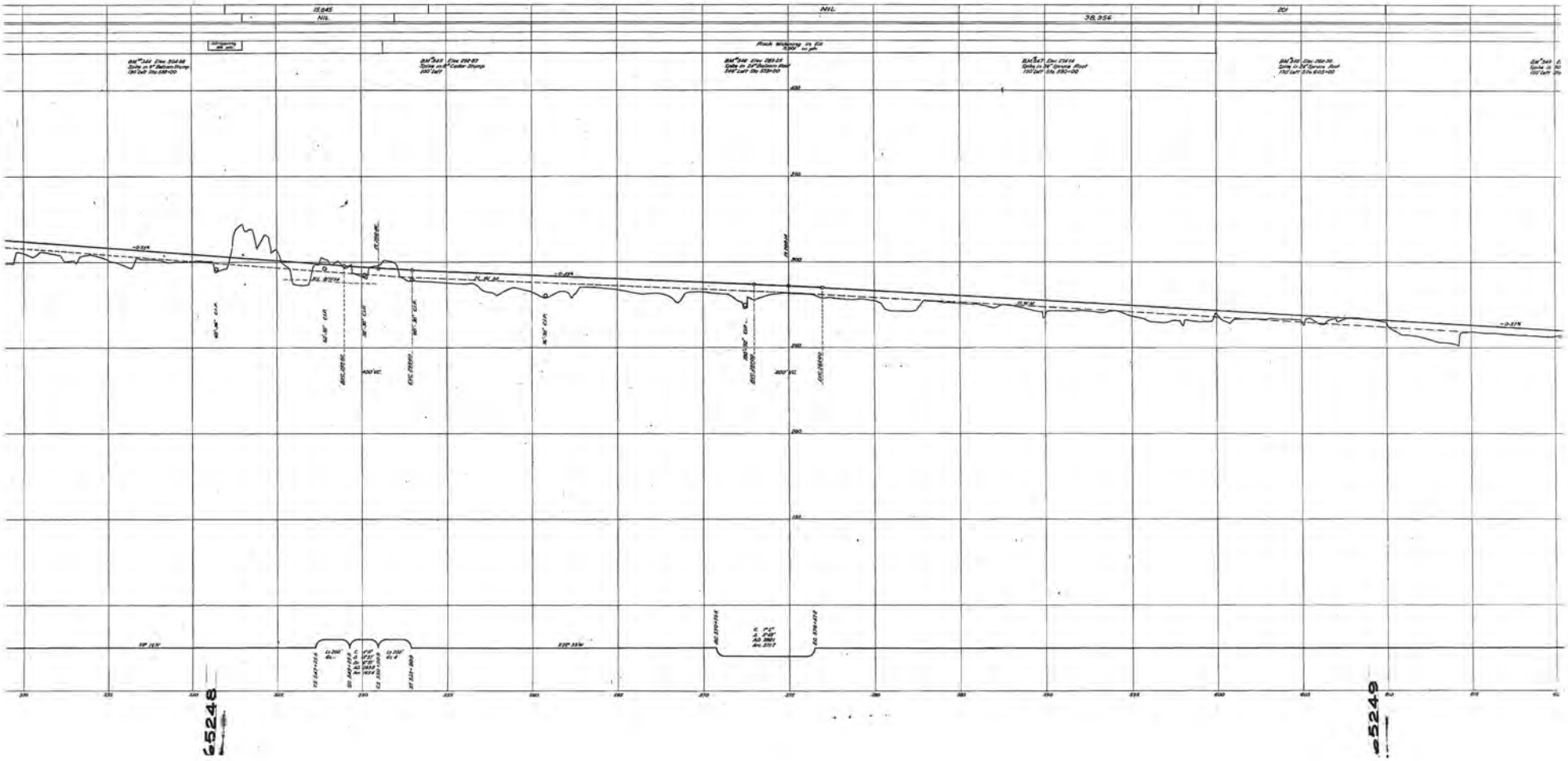


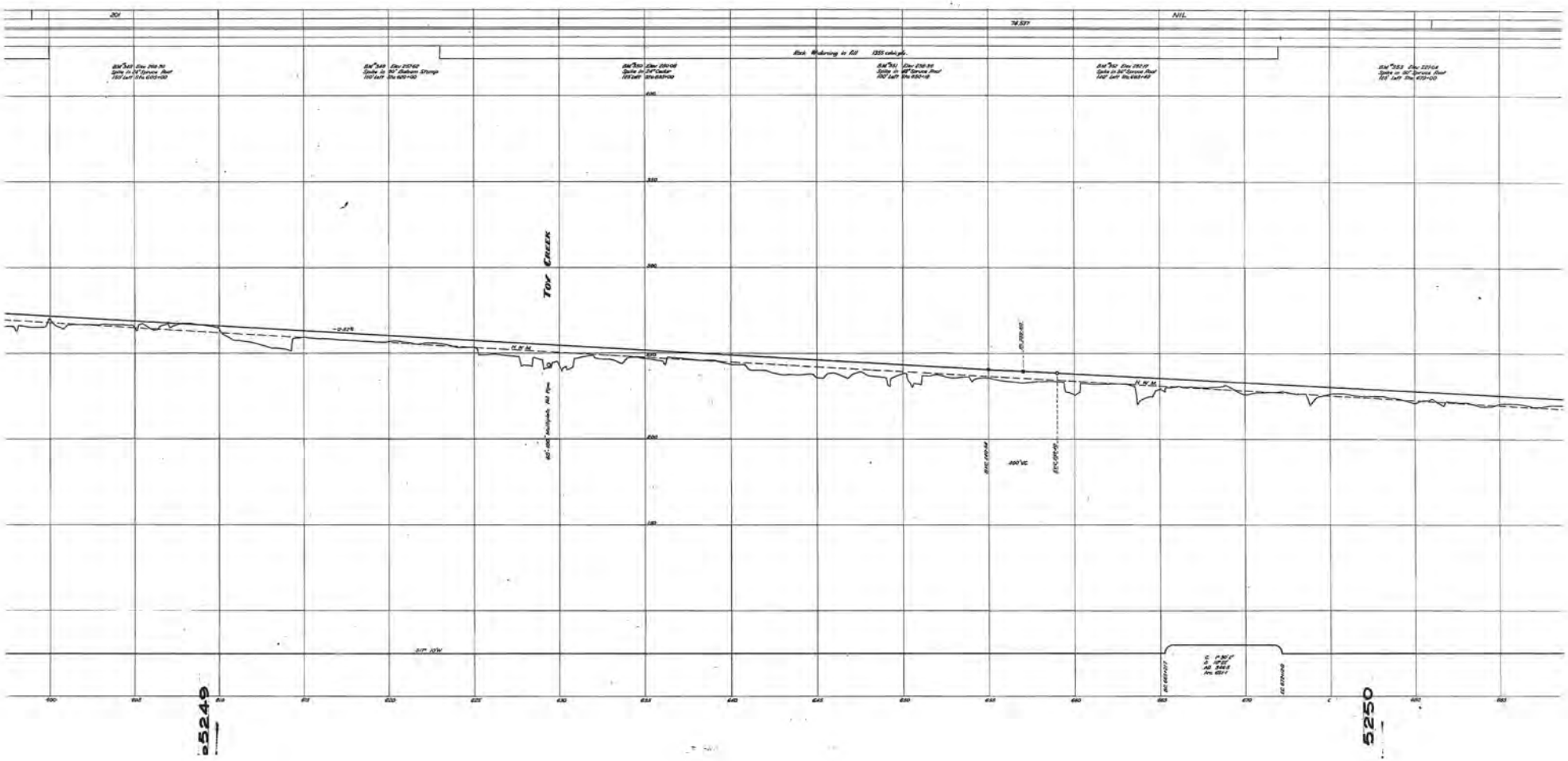
TYPICAL SECTIONS

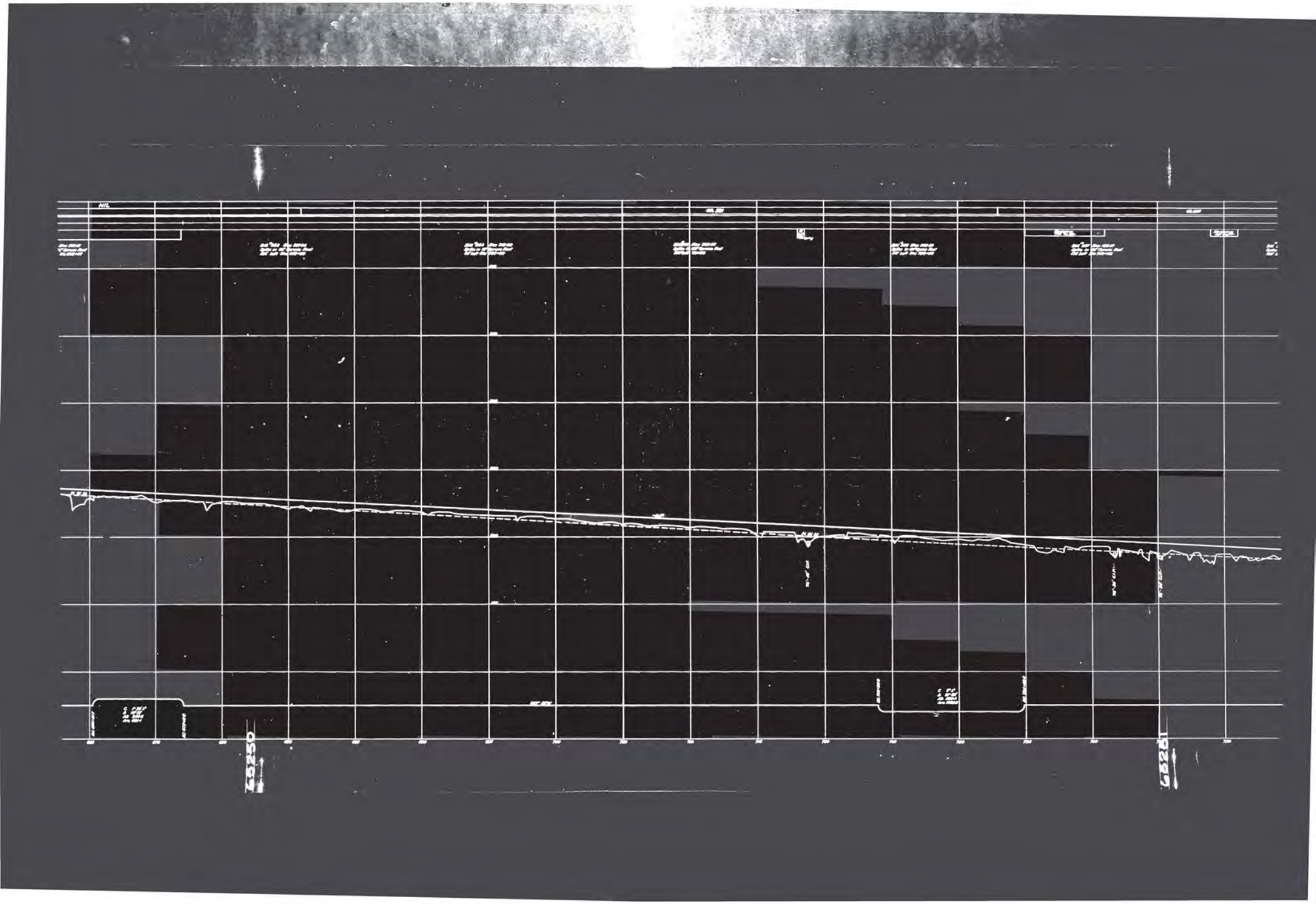


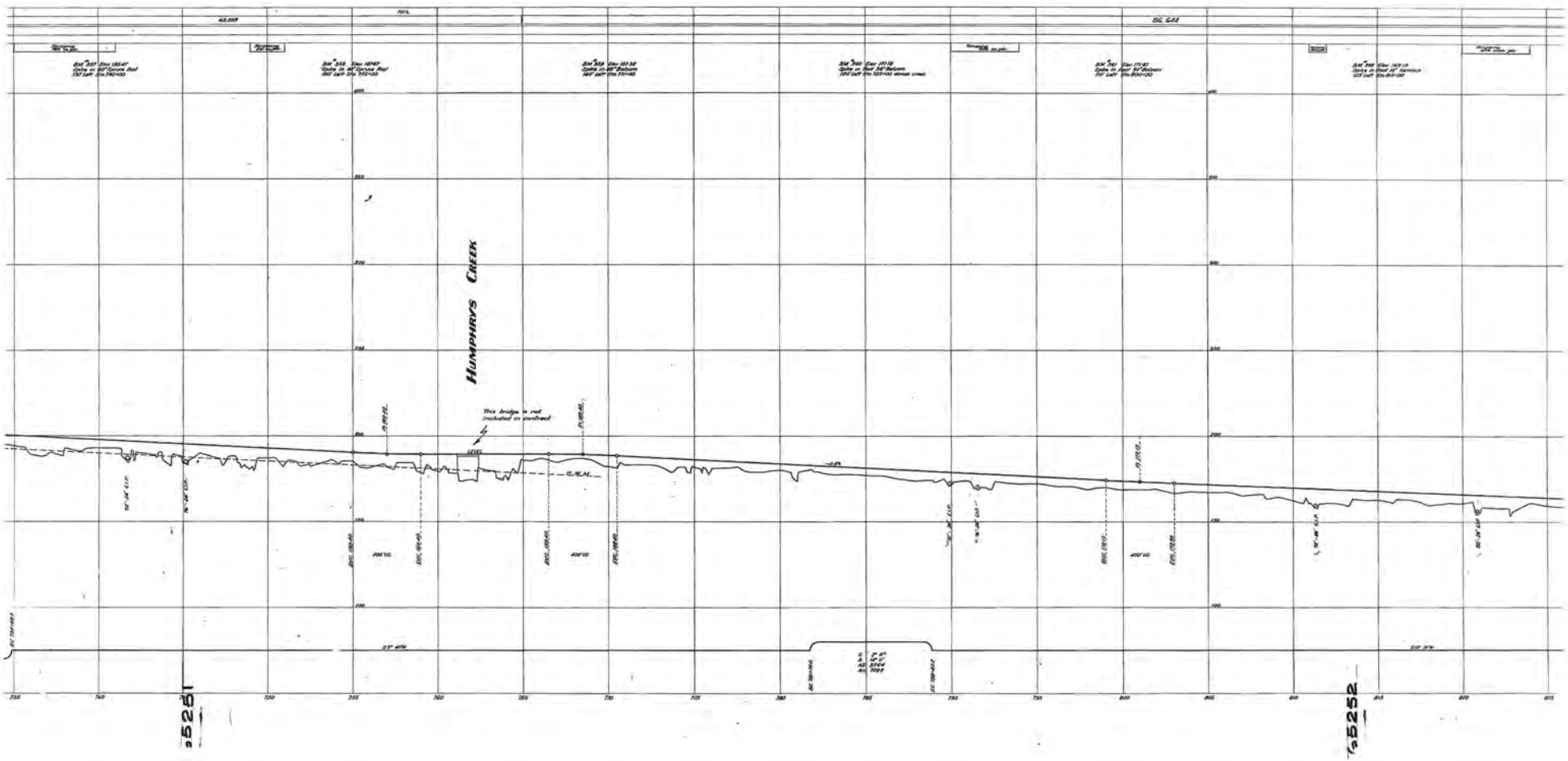
5247

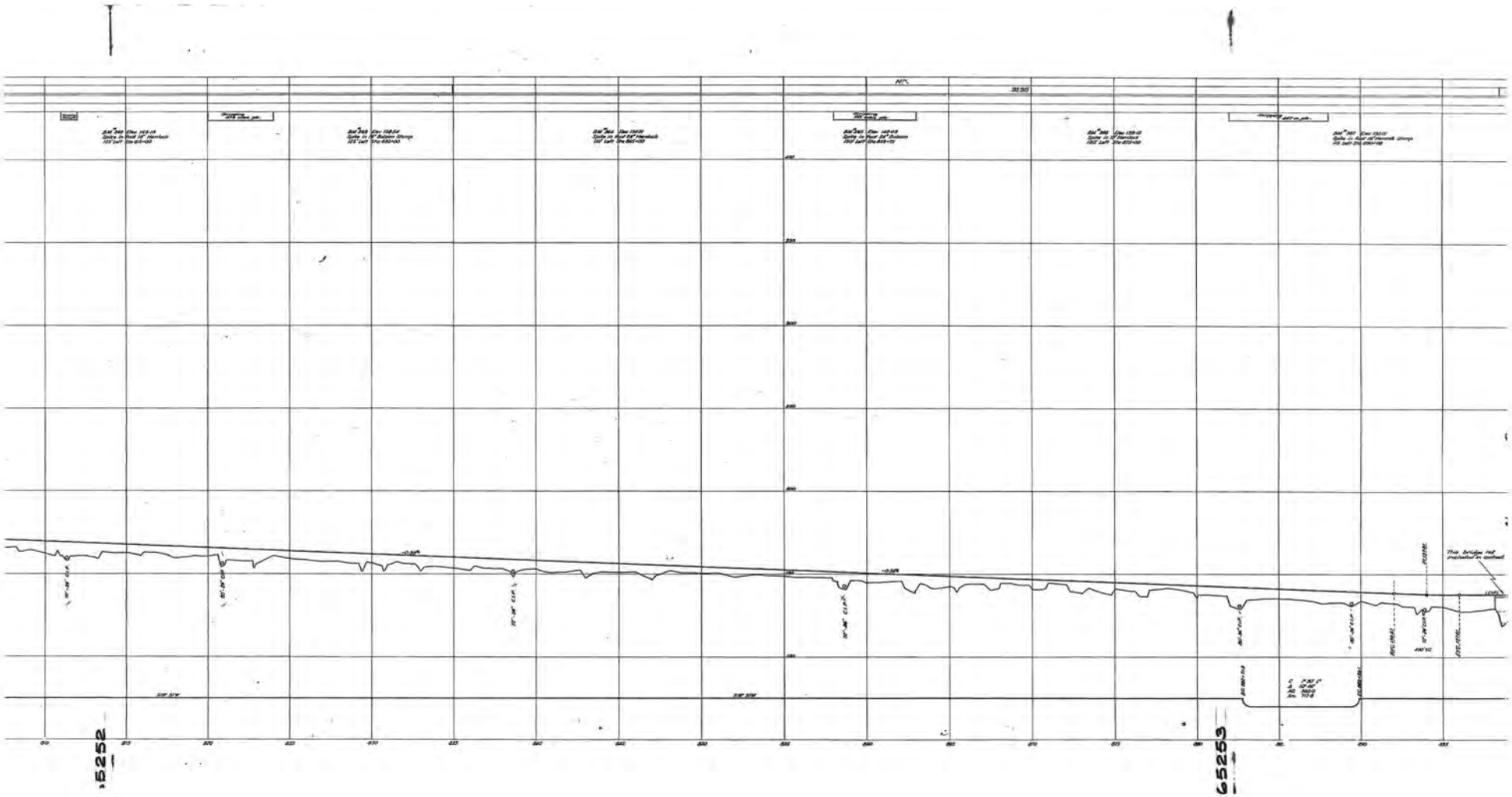

KITIMAT RIVER
BEGINNING OF CONTRACT
STA. 48+00
REVISED ALINEMENT
C A N C E L
5247
5248

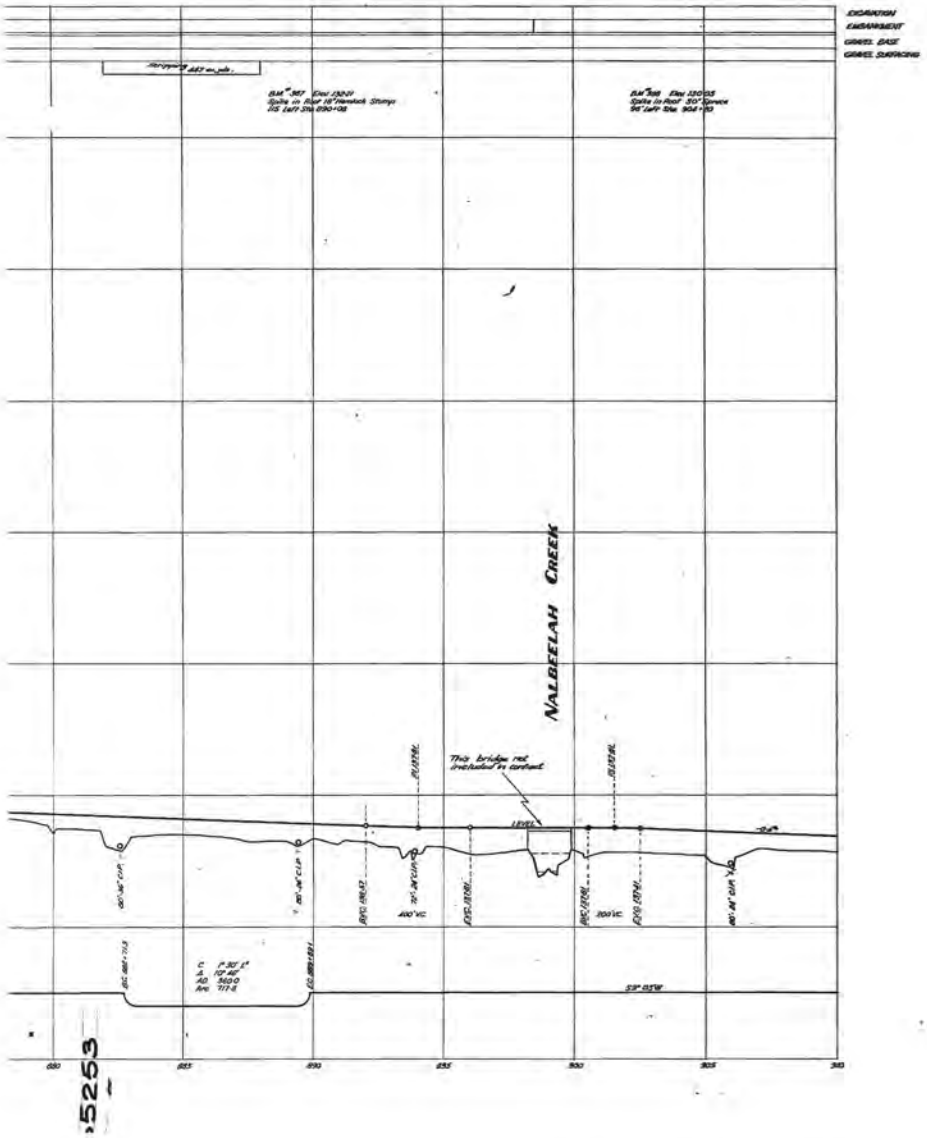

15.045
NIL
NIL
38.956
201
Rock Widening in Cut
5248
5249


TOY CREEK
5249
5250


6250
6281


HUMPHRYS CREEK
This bridge is not included in contract
5251
5252


5252
5253



PROJECT Nº 693
DEPARTMENT OF HIGHWAYS

PROFILE

TERRACE KITIMAT HIGHWAY

KITIMAT RIVER – NALBEELAH CR.

STA. 469+00 – 898+00
8.12 MILES

Scales HOR. 1" = 200'
VERT. 1" = 20'

SURVEY BY Mc ELHANNEY & McRAE (CONSULTANTS LTD.)
DRAWN BY ——Do——
TRACED BY P.H.V.

LOCATION PLAN Nº 251-2

APPROVED

Location Engineer
Date Oct. 26, 1955.

Chief Engineer
Date March 6, 1956

PROFILE No. 1 of 2 PROFILES
KITIMAT RIVER – KITIMAT

5253

5254

PROJECT No [illegible]

DEPARTMENT OF [illegible]

PLAN

TERRACE KITIMAT HIGHWAY

MALBEELA CREEK – KITIMAT

Sta. 900+00 – 1286+00

7.31 MILES

Scale :- 1" = 100'

0 100

SURVEY BY: [illegible] (CONSULTING) ENG. CO. LTD.

DRAWN BY: — DITTO —

LOCATION PLAN No [illegible]

TRACED BY: R.A.

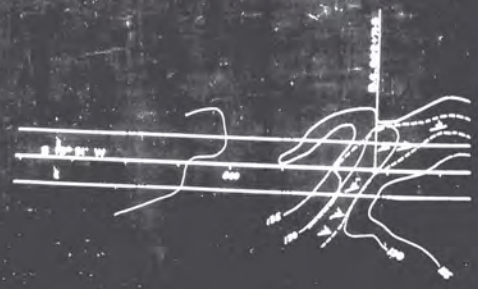
APPROVED

[illegible]
Executive Engineer
Date:- [illegible]

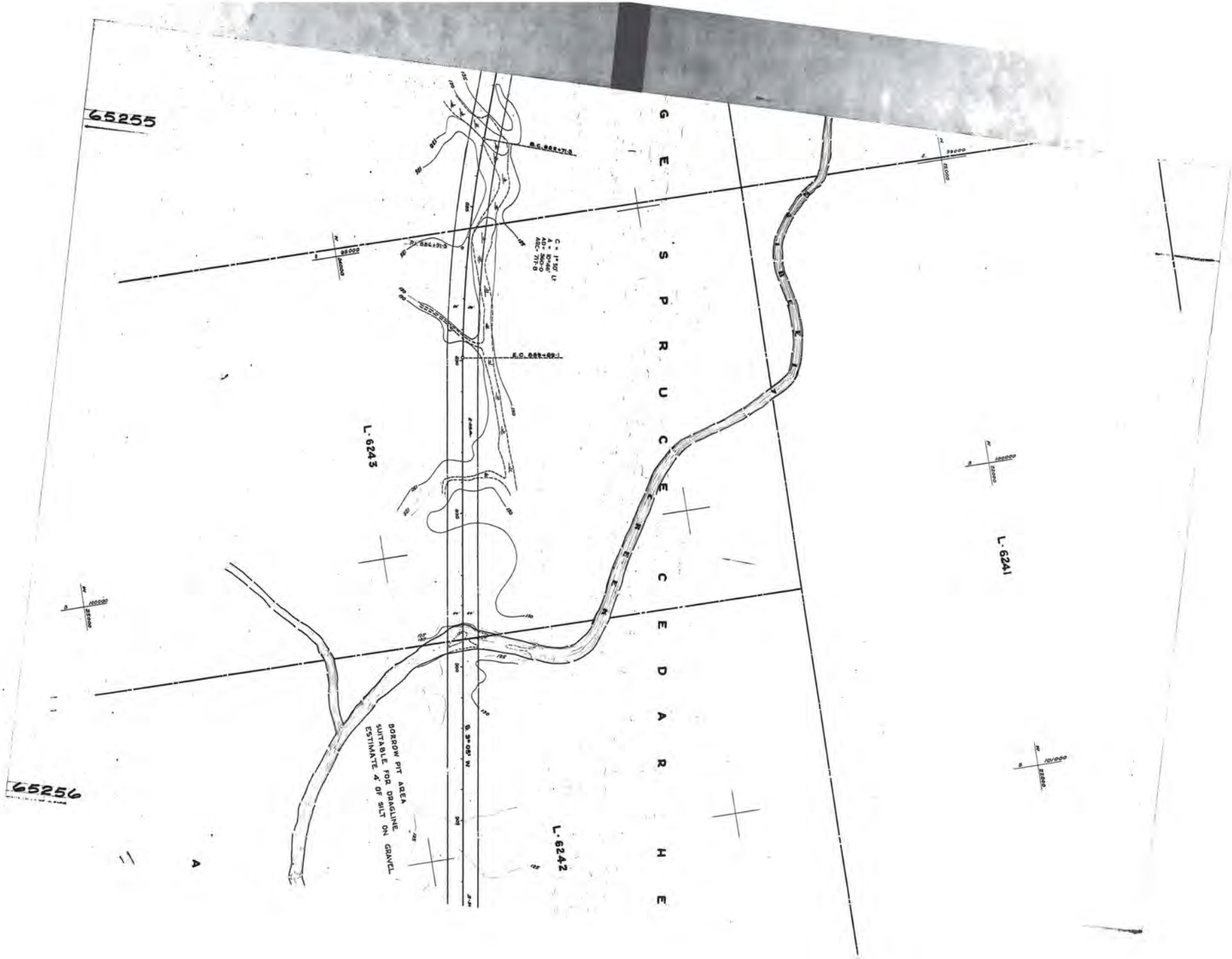
[illegible]
Chief Engineer
Date:- [illegible] 1956

PLAN No. 2 of 2 PLANS

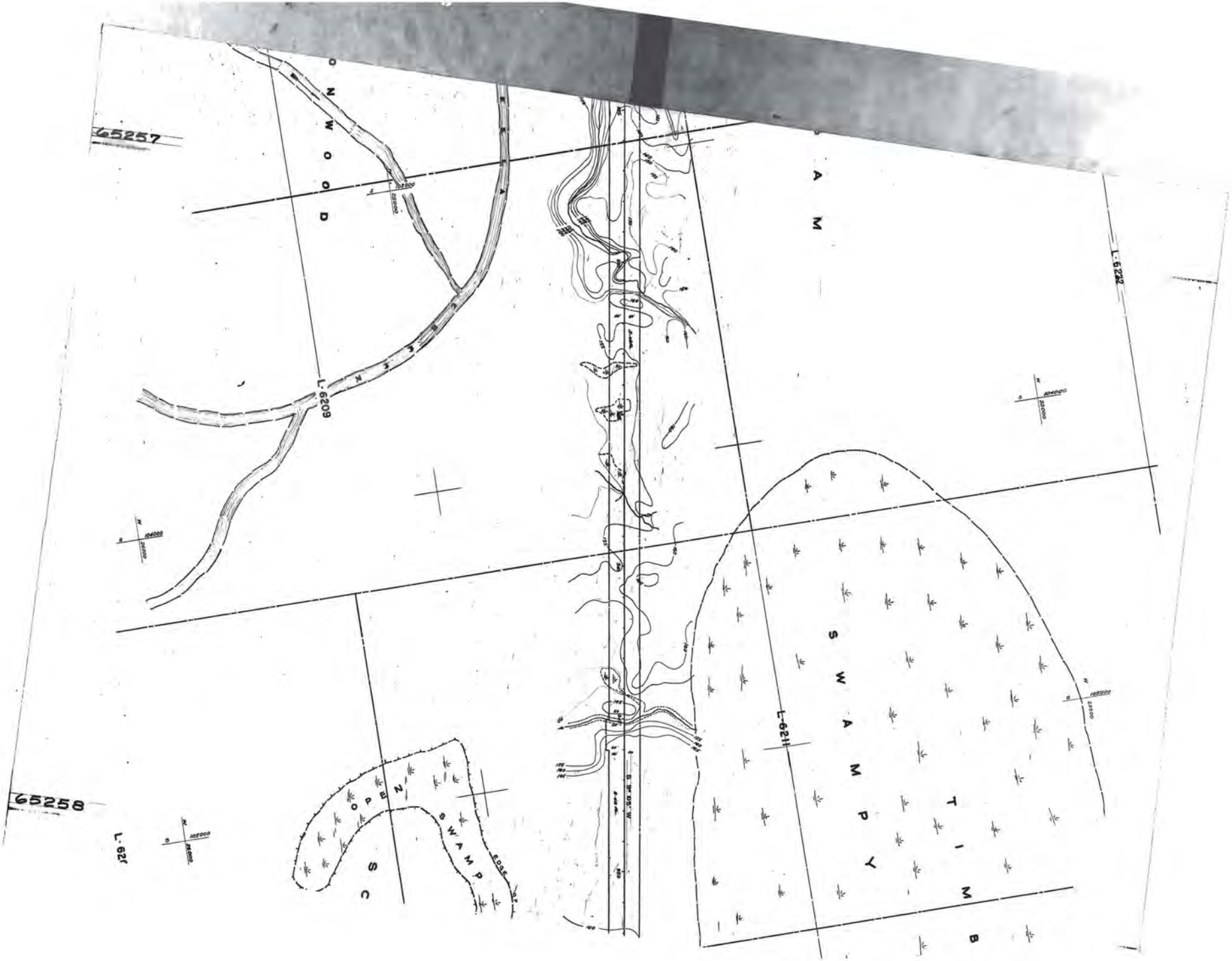
KITIMAT RIVER – KITIMAT



[illegible]

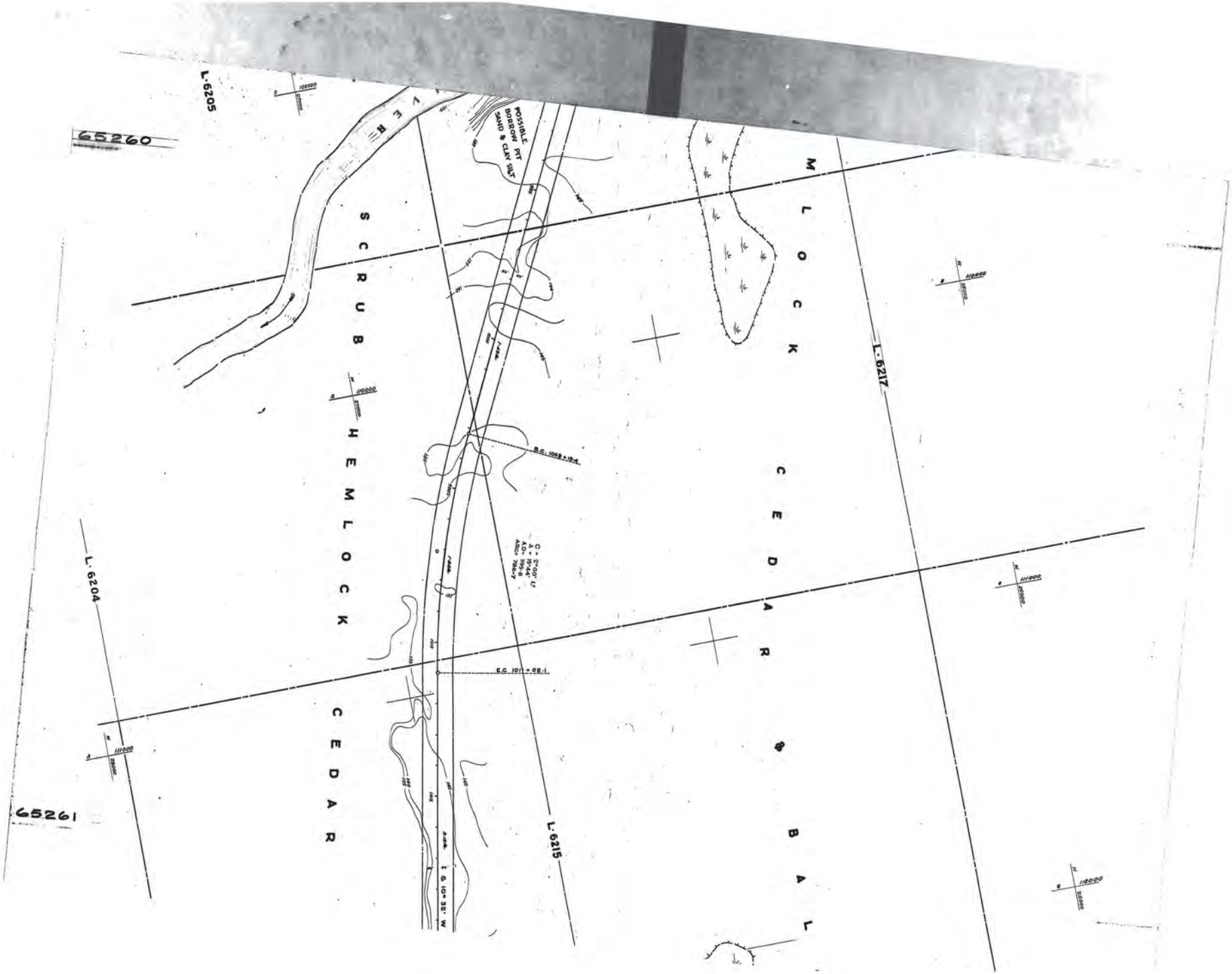

65255
65256
L-6241
L-6242
L-6243
B.C. 888+71.8
E.C. 889+89.1
C = 1°00' LT
Δ = 17°46'
AD = 360.0
ARC = 711.8
S 3°08' W
BORROW PIT AREA
SUITABLE FOR DRAGLINE
ESTIMATE 4' OF SILT ON GRAVEL
GESPRUCE CEDAR HE
A

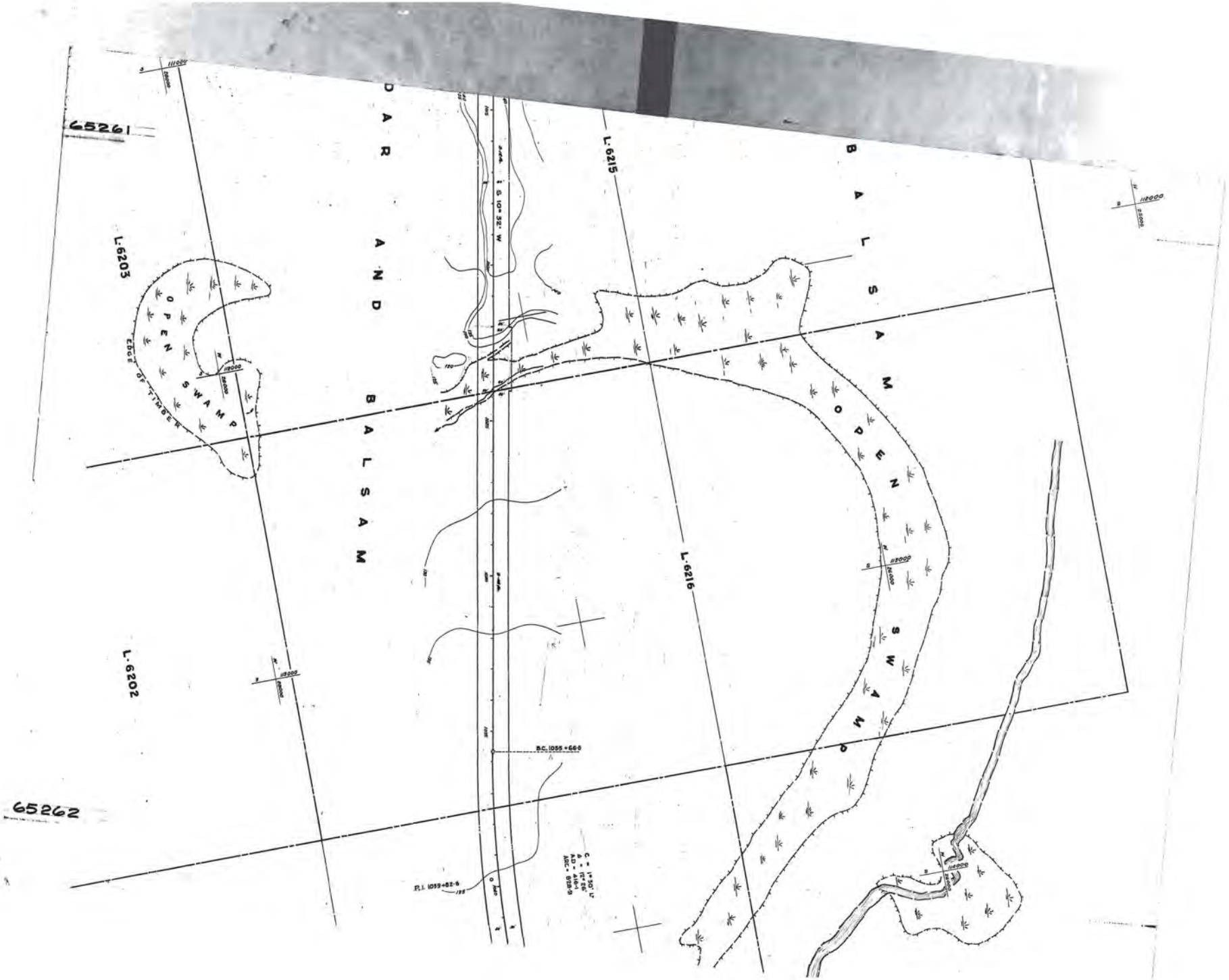
L-6222
L-6225
H E M L O C K & B A L S A M
L-6242
DIVERSION
125' W
BORROW PIT AREA
SUITABLE FOR DRAGLINE
ESTIMATE 4' OF SILT ON GRAVEL
POSSIBLE BORROW
PIT AREA. SUITABLE
FOR DRAGLINE
N A L B E K L A
A L D E R A N D C O T T O N W O O D
L-6210
65256
65257


65257
65258
L-6209
L-6222
L-6211
L-621
S W A M P Y
T I M B
A M
O N W O O D
S C
O P E N
S W A M P
EDGE

L·6213
L·6212
L·6207
L·6208
6525B
6525B
TIMBERED GROUND
TIMBERED SWAMPY GROUND
HEMLOCK CEDAR
OPEN SWAMP
SCRUB
SWAMP
EDGE OF TIMBER
EDGE OF TIMBER

L-6213
65259
ARBALSAM
OPEN SWAMP
SCRUB HEMLO
L-6206
SIDE CHANNEL OF KITIMAT RIVER
GRAVEL
ALDER
COTTONWOOD AND SPRUCE
LARGE
EDGE OF TIMBER
EDGE OF TIMBER
L-6214
POSSIBLE BORROW PIT SAND & CLAY SILT
L-6205

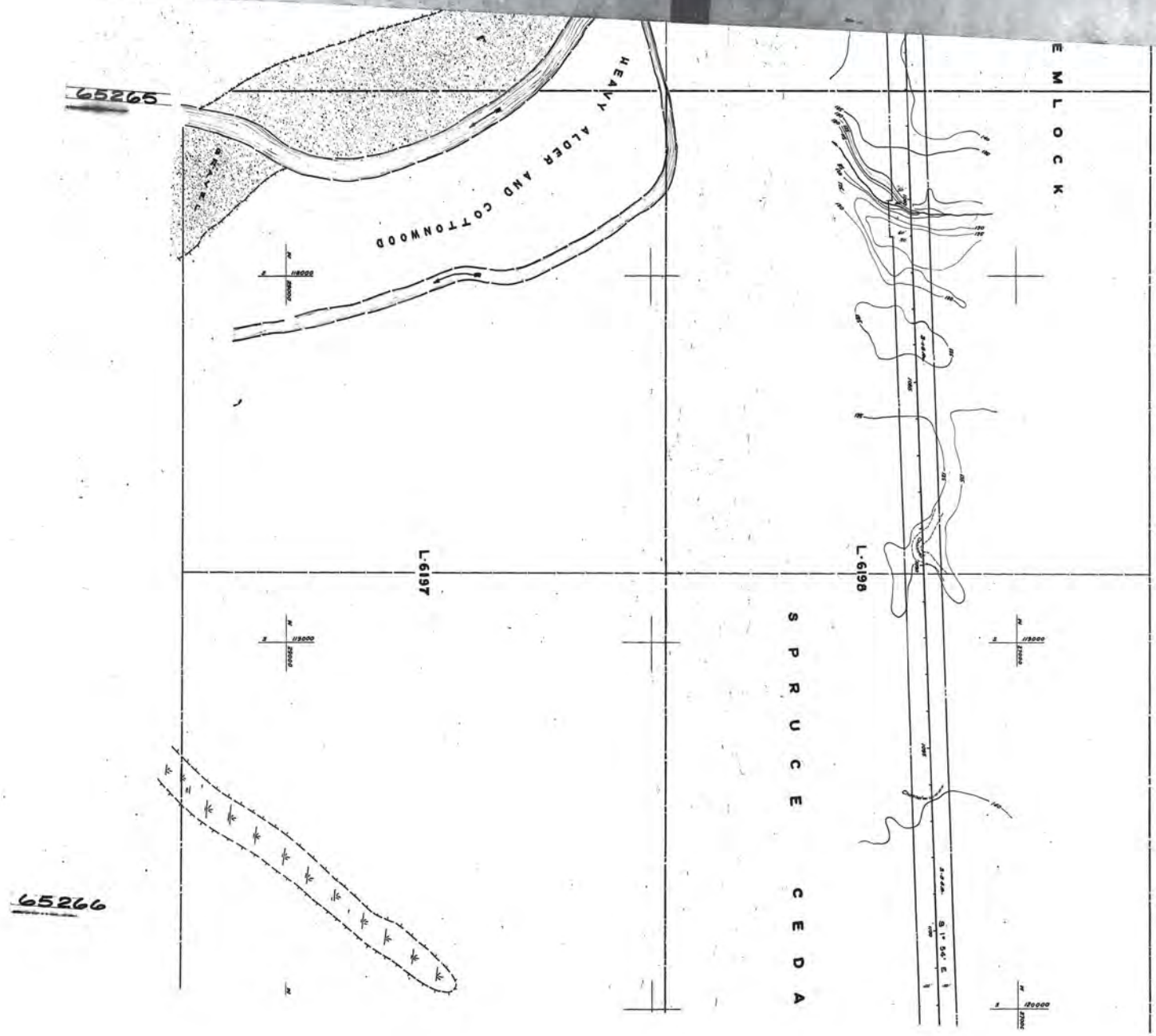

L-6205
65260
POSSIBLE BORROW PIT SAND & CLAY SILT
V E R
S C R U B H E M L O C K
C E D A R
M L O C K
C E D A R & B A L
L-6217
B.C. 1008+19.4
C = 2000' Lt
Δ = 15°-34'-
A.D. = 395.8
ADC = 786.7
E.C. 1011+08.1
L-6204
L-6215
65261
S 10° 32' W


65261
65262
L.6203
L.6202
L.6215
L.6216
DARAND BALSAM
BALSAM OPEN SWAMP
OPEN SWAMP
B.C. 1055+66.6
P.I. 1059+82.6
C = 1°50'
Δ = 12°26'
A.D. = 12°26'
ARC = 662.9

65262
65263
L-6201
L-6200
HEMLOCK
HEAVY
CEDAR
TIMBER
BORROW AREA
SAND AND SOME GRAVEL

TIMBER
CEDAR BALSAM
S.T.L. 9468
CONSTRUCT DIVERSION CHANNEL
L.6192
TIMBER
CEDAR BALSAM
L.6190
GRAVEL
ALDER & COTTONWOOD
HEAVY ALDER & COTT.
KITIMAT RIVER
65263
65264

CEDAR BALSAM AND HEMLOCK
65264
65265
L.6199
HEAVY ALDER & COTTONWOOD
HEAVY ALDER AL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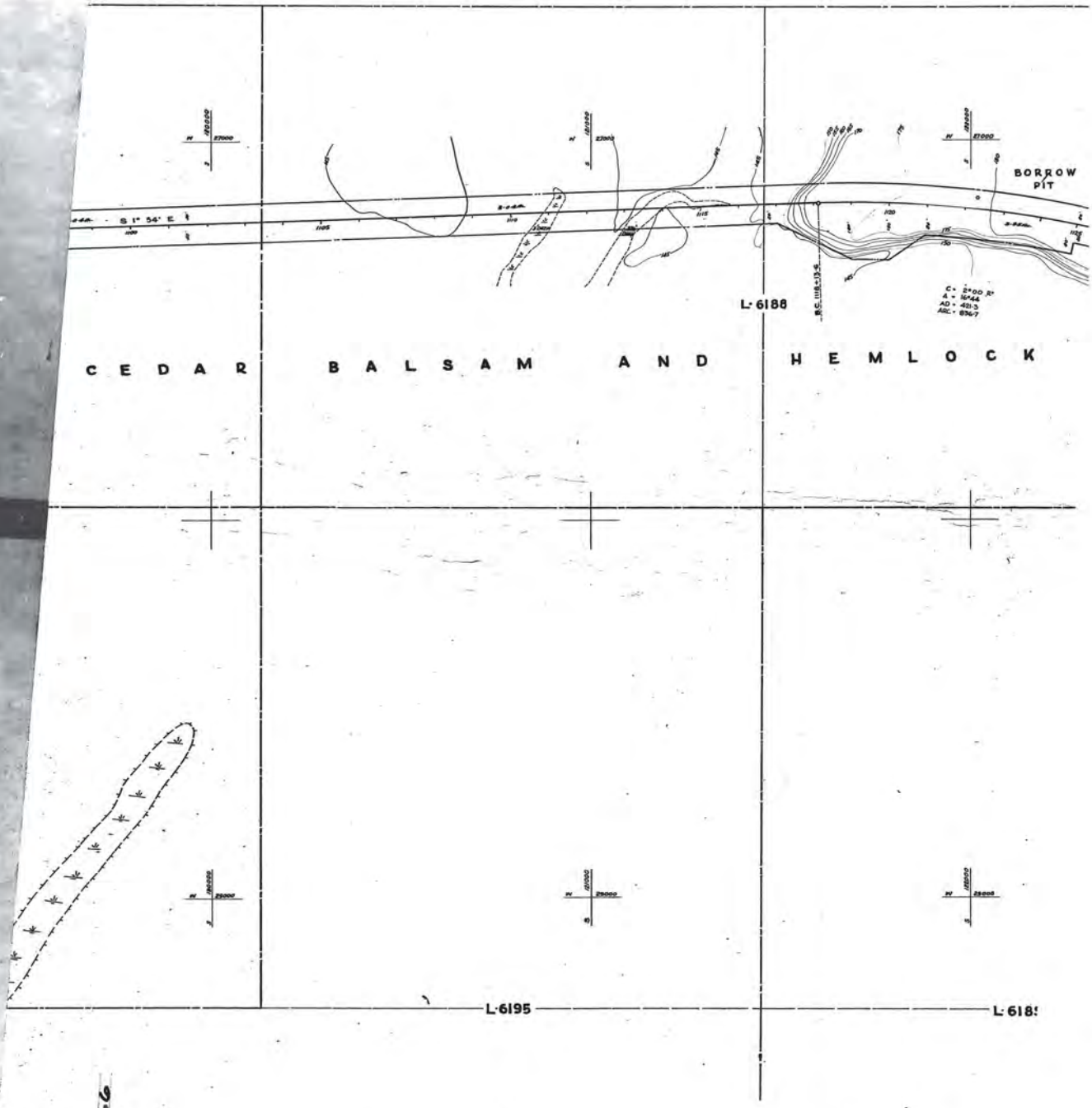
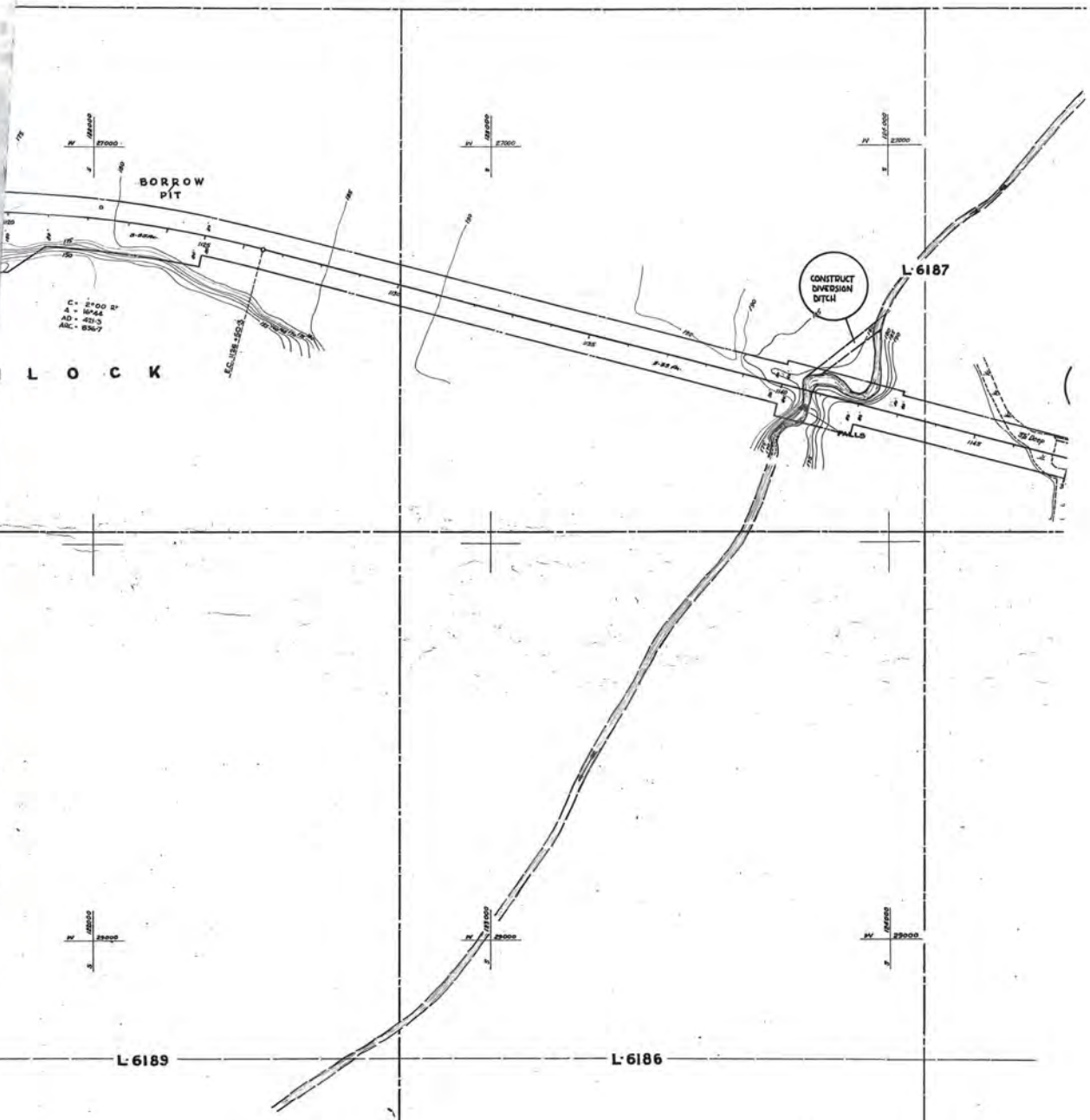
HEAVY ALDER AND COTTONWOOD
L-6197
L-6196
S P R U C E C E D A
E M L O C K
65266


BORROW PIT
S 1° 54' E
L-6188
C E D A R
B A L S A M
A N D
H E M L O C K
L-6195
L-6185

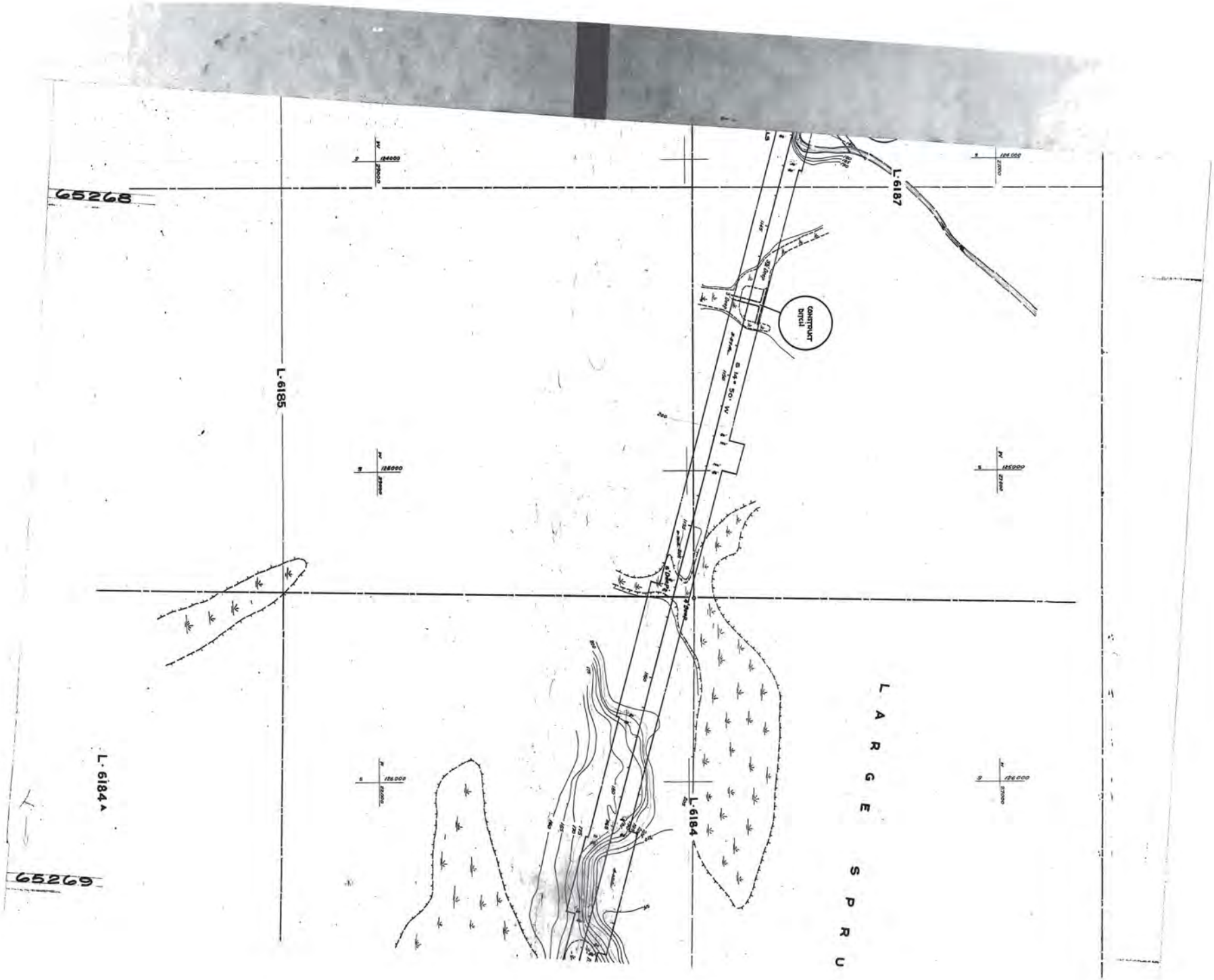
65266

65267

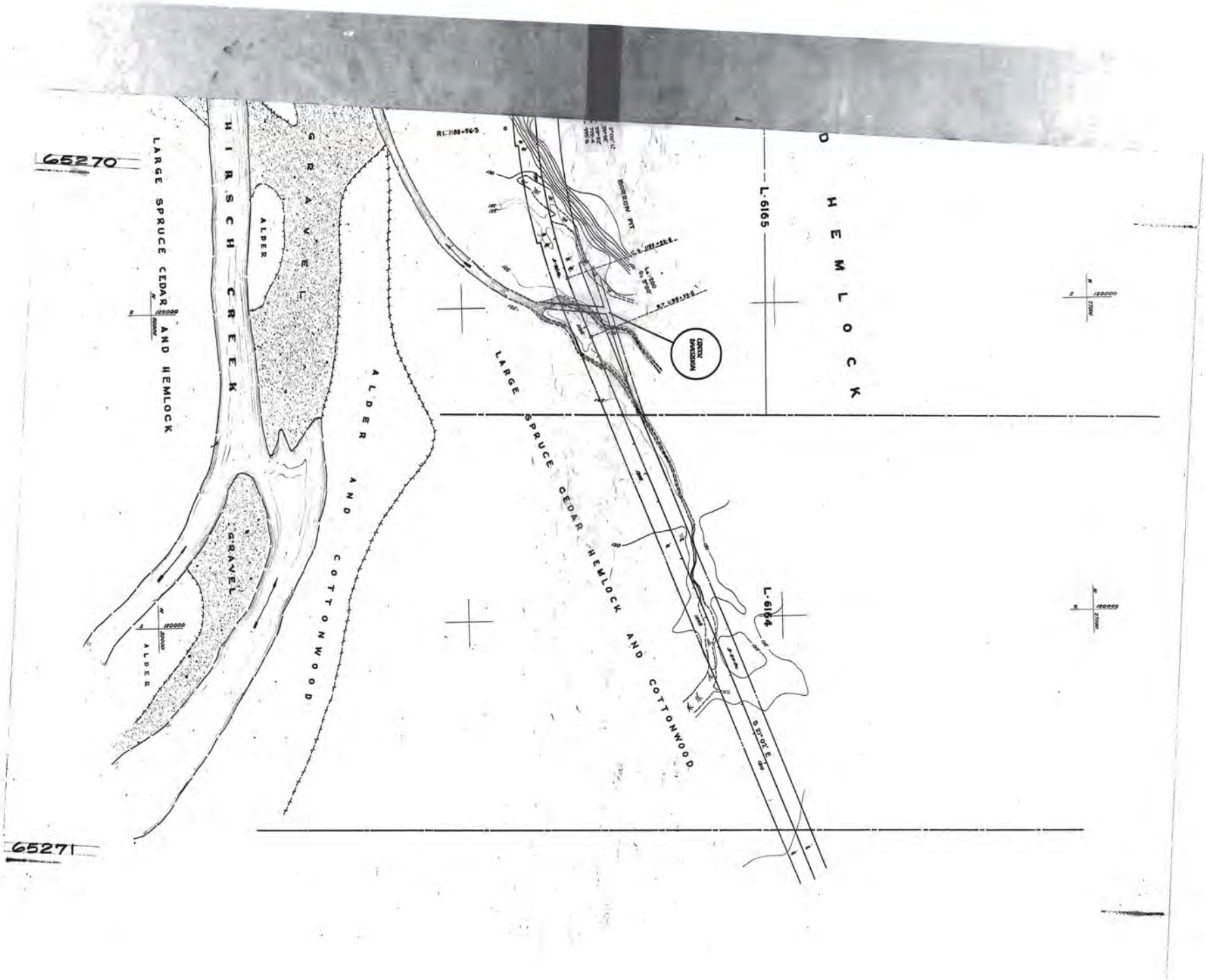

BORROW PIT
L O C K
CONSTRUCT DIVERSION DITCH
L-6187
L-6189
L-6186

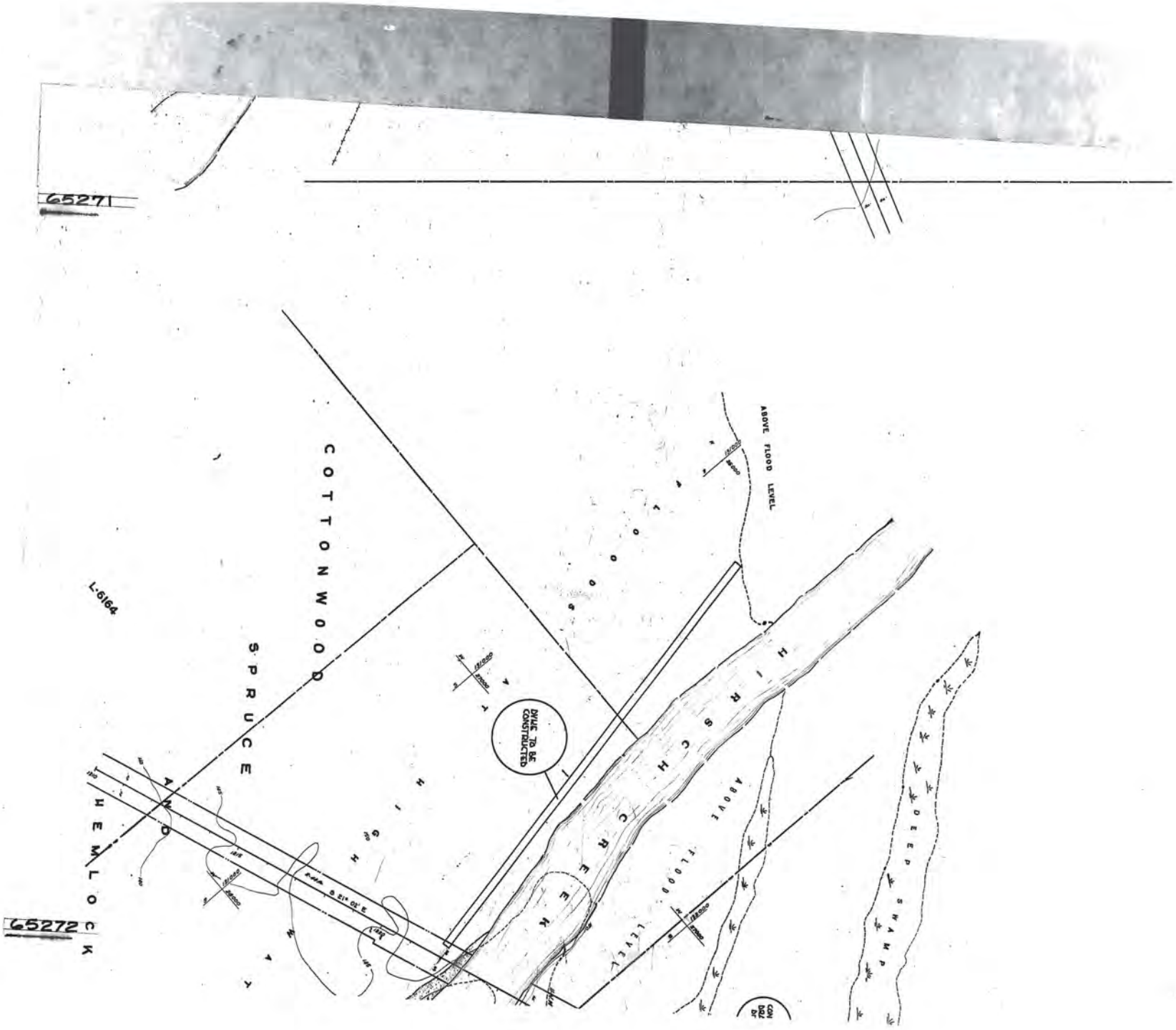
65267

65268


L-6187
CONSTRUCT DITCH
L-6185
L-6184
L-6184 A
65268
65269
L A R G E S P R U

SPRUCE CEDAR BALSAM AND HE
L-6183
L-6165
S. 14° 50' W.
BORROW PIT
ALDER
ALDER
HIRSC
LARGE SPR
84A
65269
65270


65270
LARGE SPRUCE CEDAR AND HEMLOCK
HIRSCH CREEK
ALDER
GRAVEL
GRAVEL
ALDER
ALDER AND COTTONWOOD
BORROW PIT
LARGE SPRUCE CEDAR HEMLOCK AND COTTONWOOD
L-6165
L-6164
HEMLOCK
65271


ABOVE FLOOD LEVEL
HIRSCH CREEK
ABOVE FLOOD LEVEL
DIKE TO BE CONSTRUCTED
COTTONWOOD
SPRUCE
HEMLOCK
L-6164
65271
65272

S P R U C
S.T. L.9472 P
W A M P
CONSTRUCT DRAINAGE DITCH
L E V E L
E K
RUNS AT HIGH WATER
ABOVE FLOOD LEVEL
S P R U C E B A
W A T E R
L.6155
L.6154
L O C K
TRUCK ROAD
TRUCK ROAD FOR HAULING BORROW
BORROW AREA
65272
65273

65273
L-6154
BALSAM & HEMLOCK
L-6041
L-6040
BALSAM AND HEMLO
RUCE
65274
L-6042

L-6040
M L O C K
L-6042
65274
NALABILA BOULEVARD
STREET
BLOCK
WIDDON STREET
HALIBLA BLVD.
L-6039
END OF CONTRACT
STA: 1286+00
65275

PROJECT No. 6933
DEPARTMENT OF HIGHWAYS

PROFILE

TERRACE KITIMAT HIGHWAY

NALBEELAH CREEK - KITIMAT

STA. 900+00 - 1286+00
7.31 MILES

SCALES HOR. 1"=200 ft.
VERT. 1"=20 ft.

SURVEY BY McELHANNEY & McRae (CONSULTING ENGS.)
DRAWN BY — DITTO —
TRACED BY R.H.V.

LOCATION PLAN No. 251-6

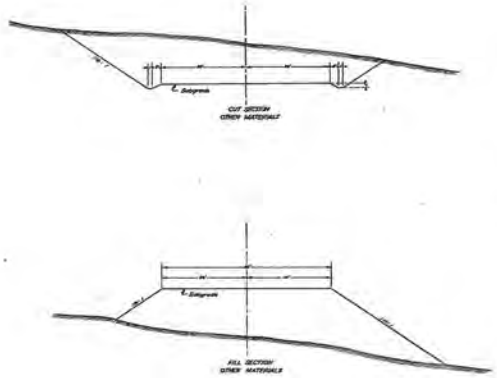
APPROVED

Chief Engineer Date 21 Feb 1956

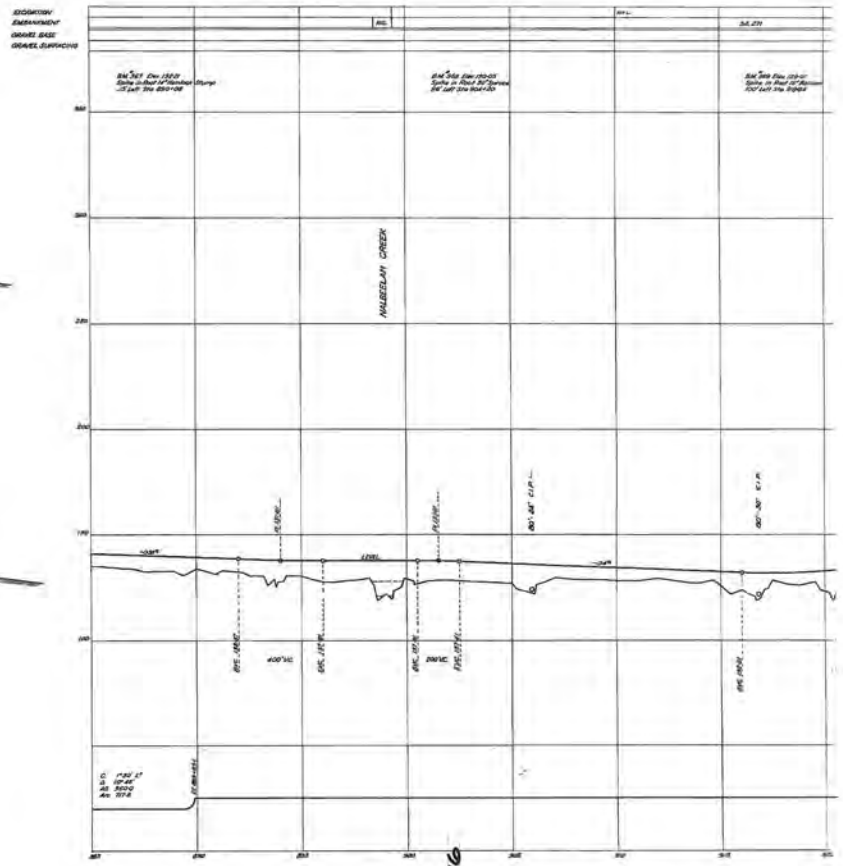
Chief Engineer Date March 6 1956

PROFILE No. 2 of 2 PROFILES

KITIMAT RIVER - KITIMAT



TYPICAL SECTIONS



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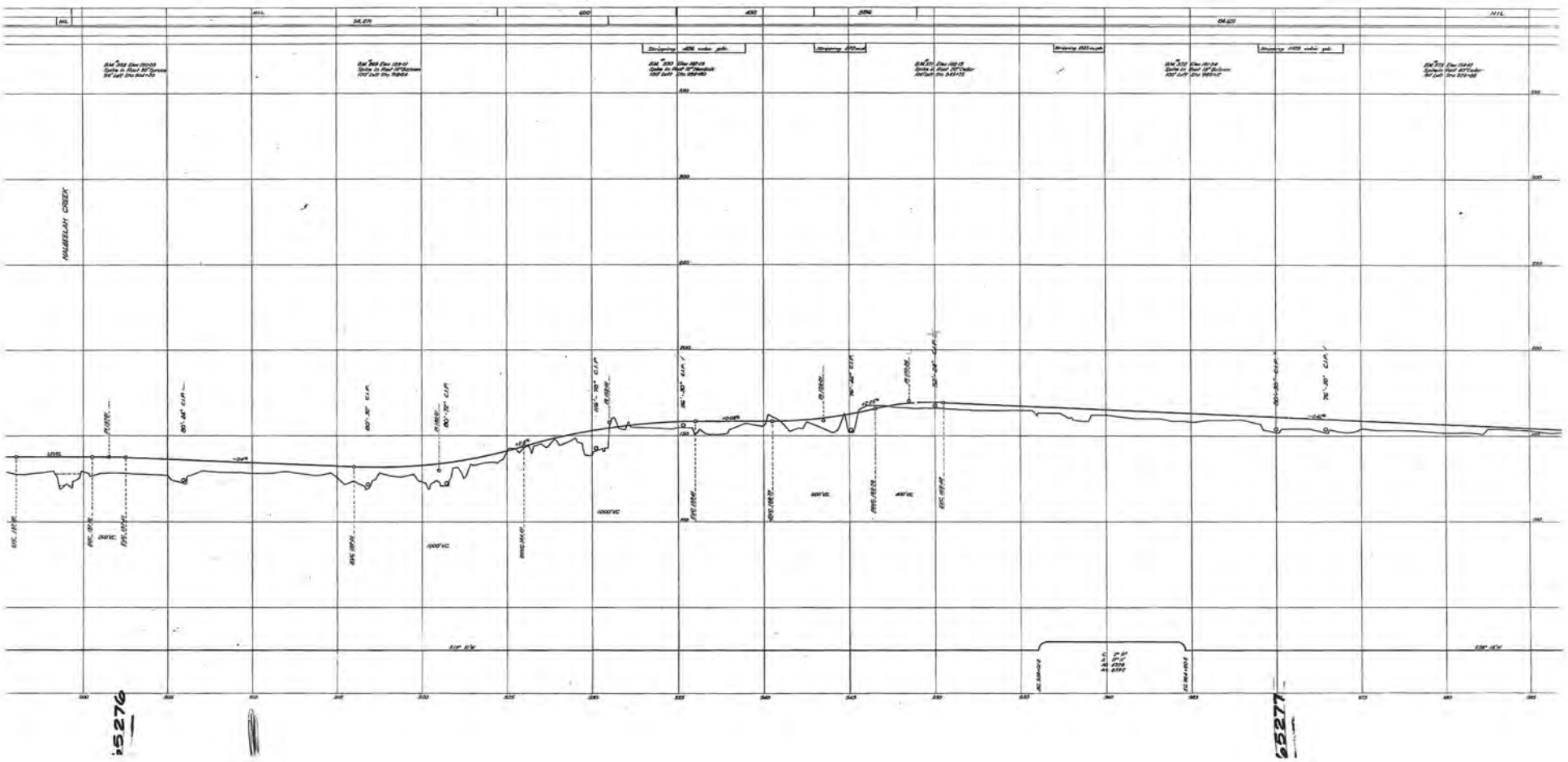
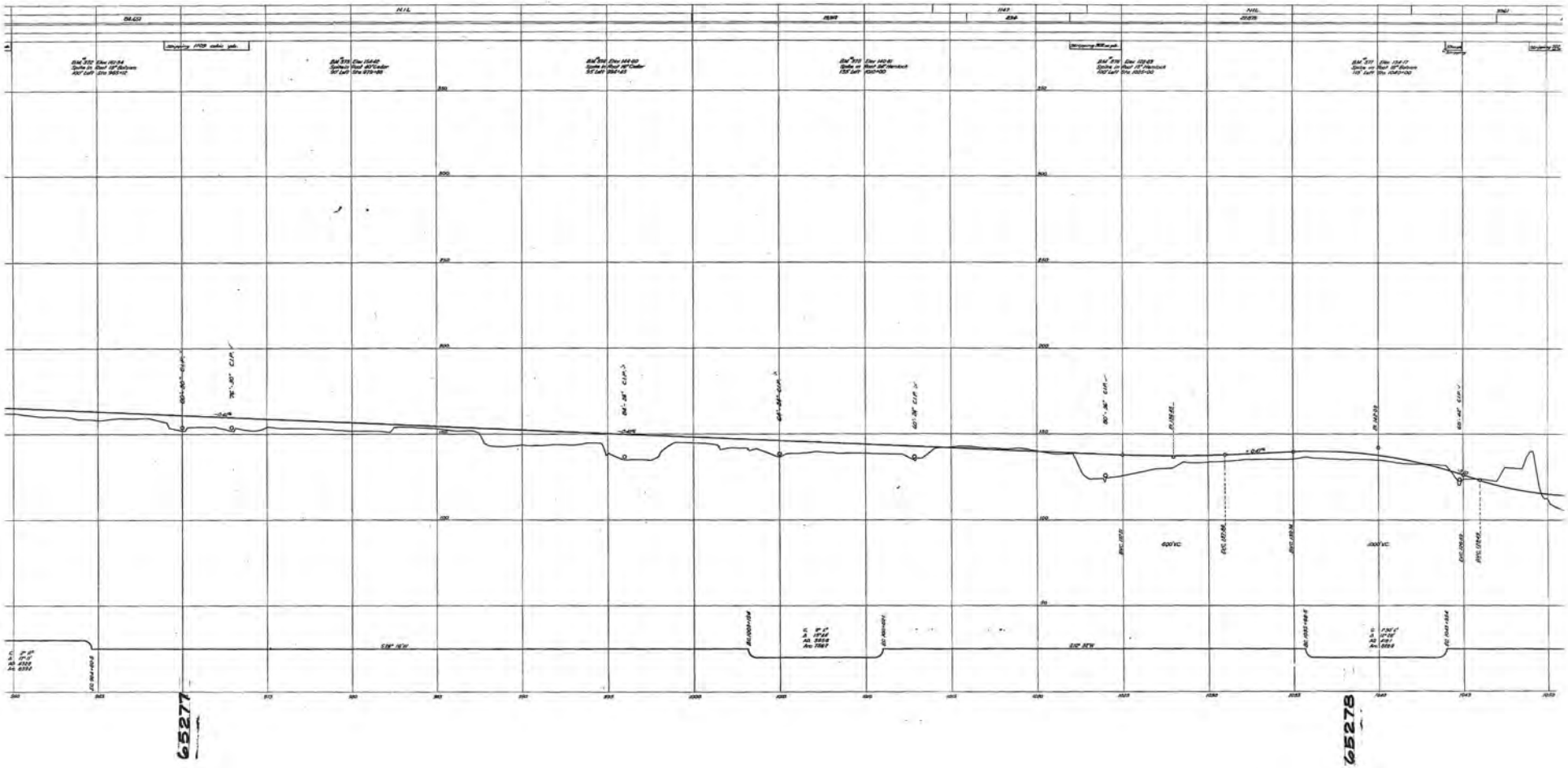

HALBERLAH CREEK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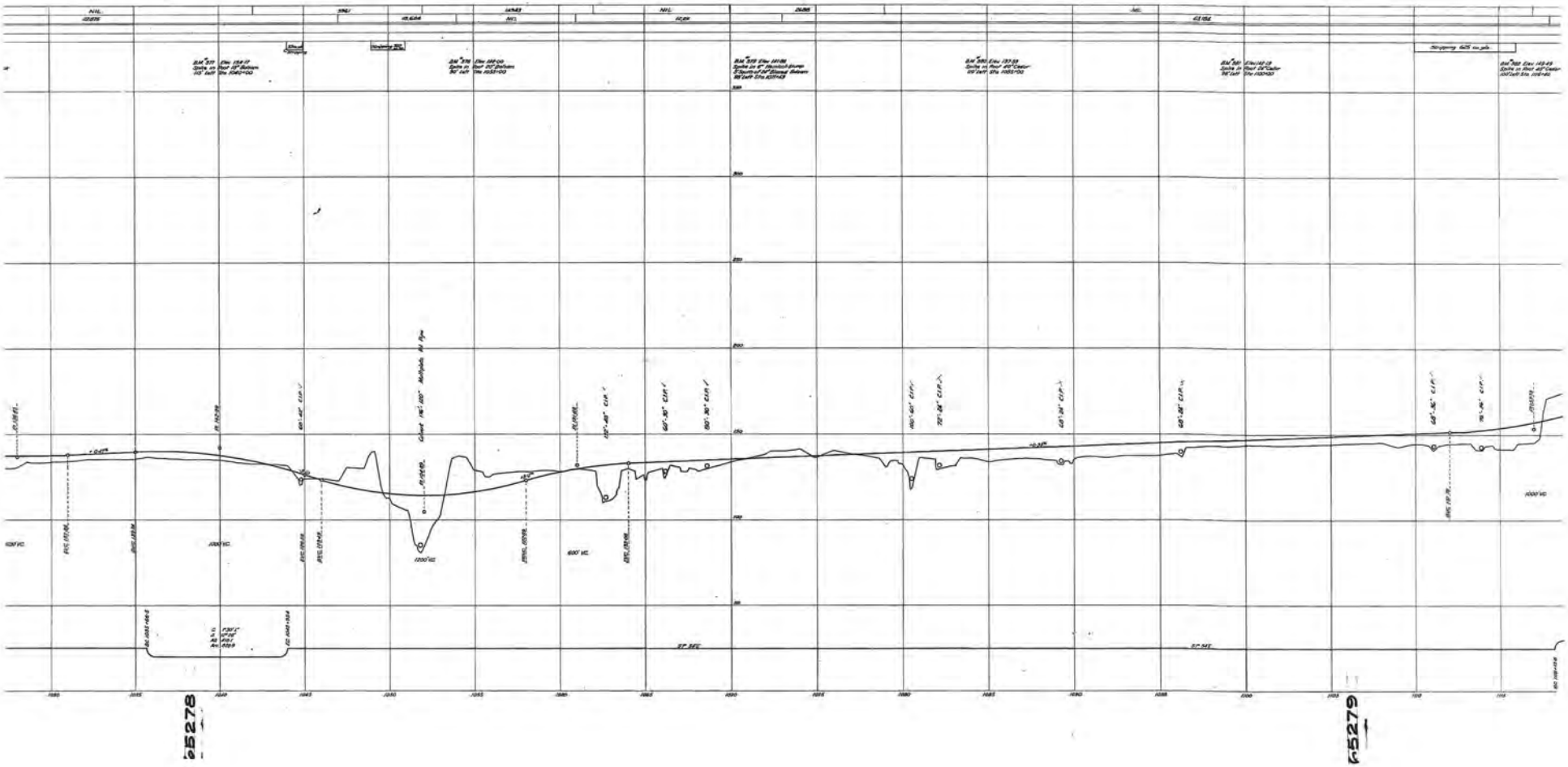
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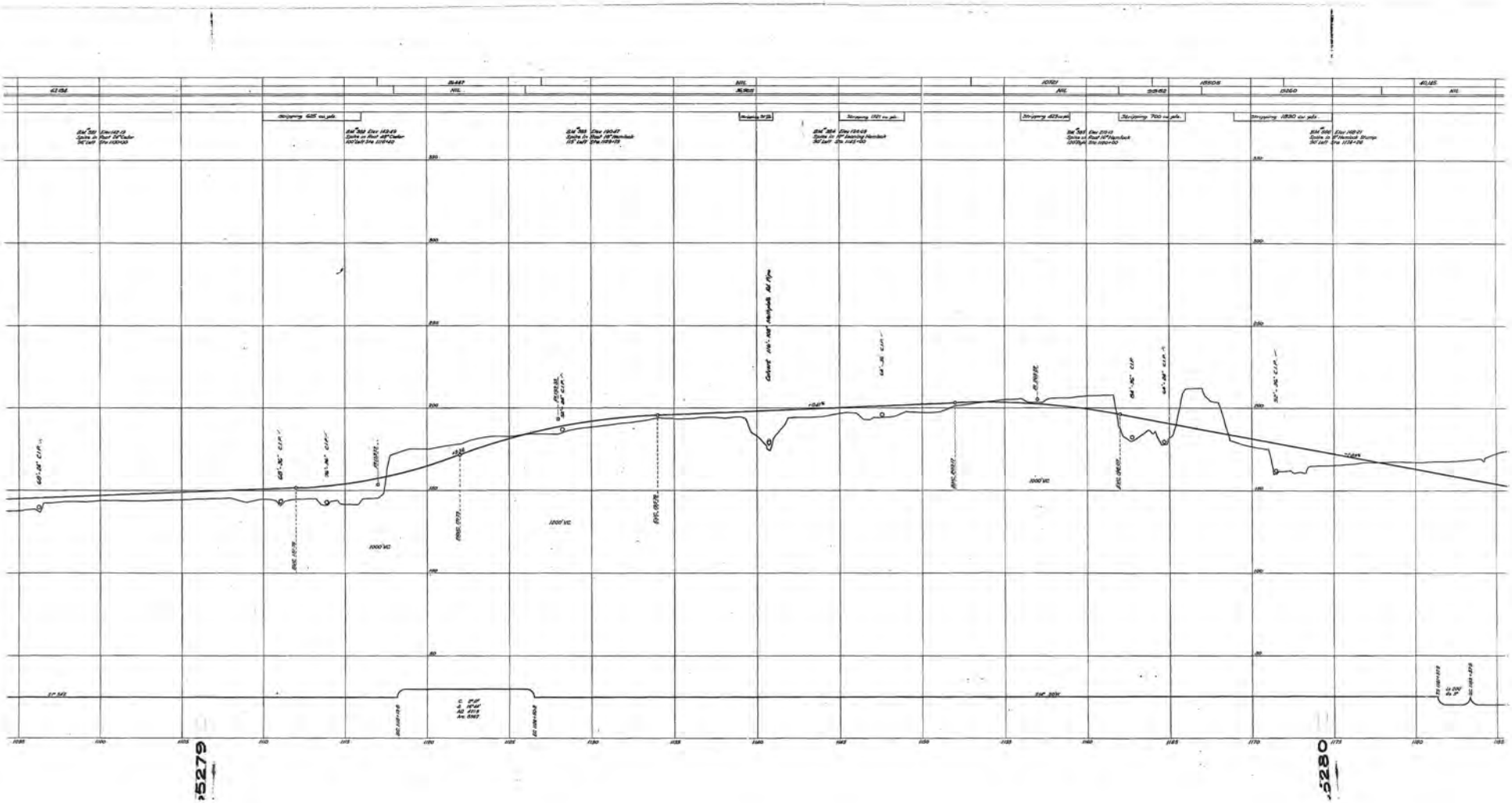
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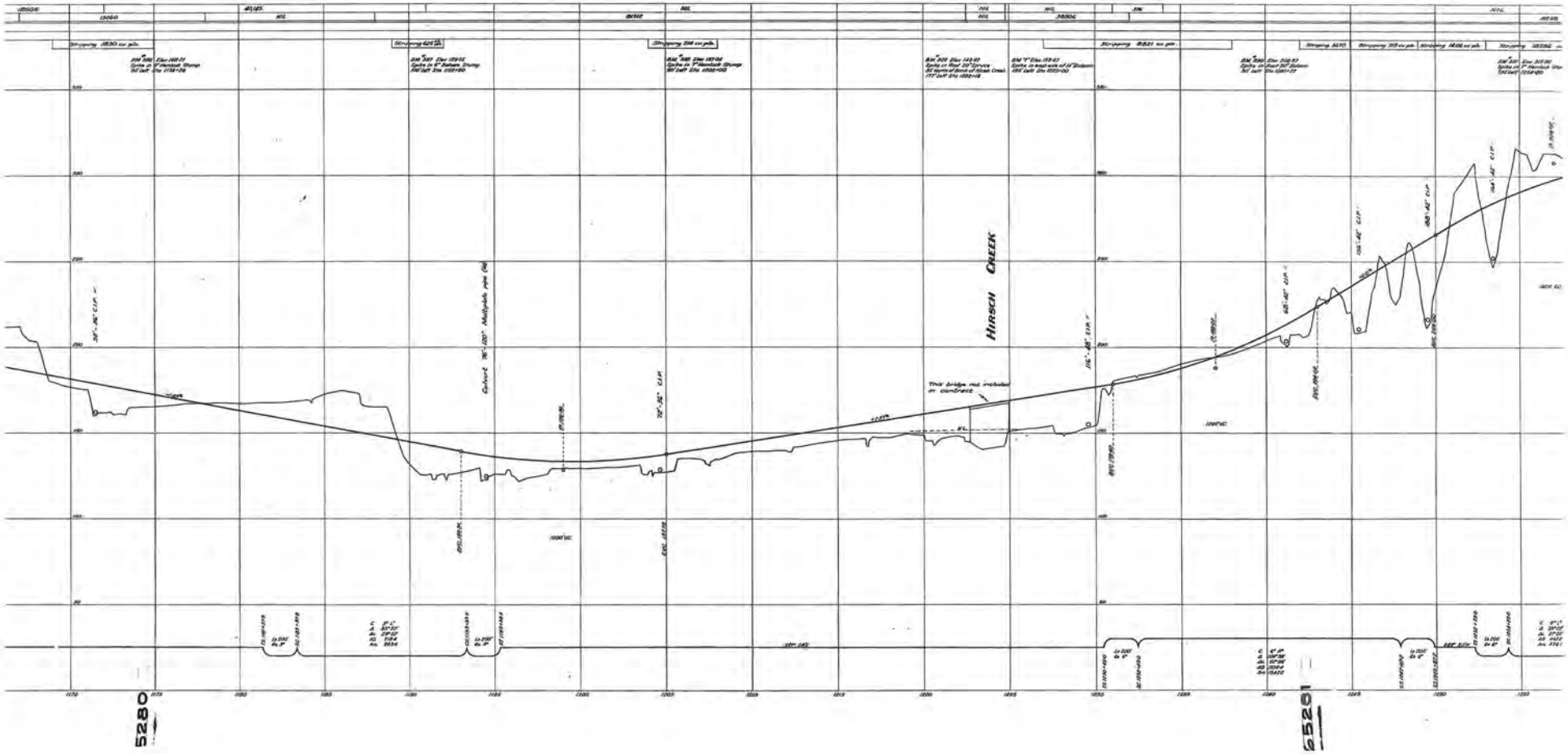
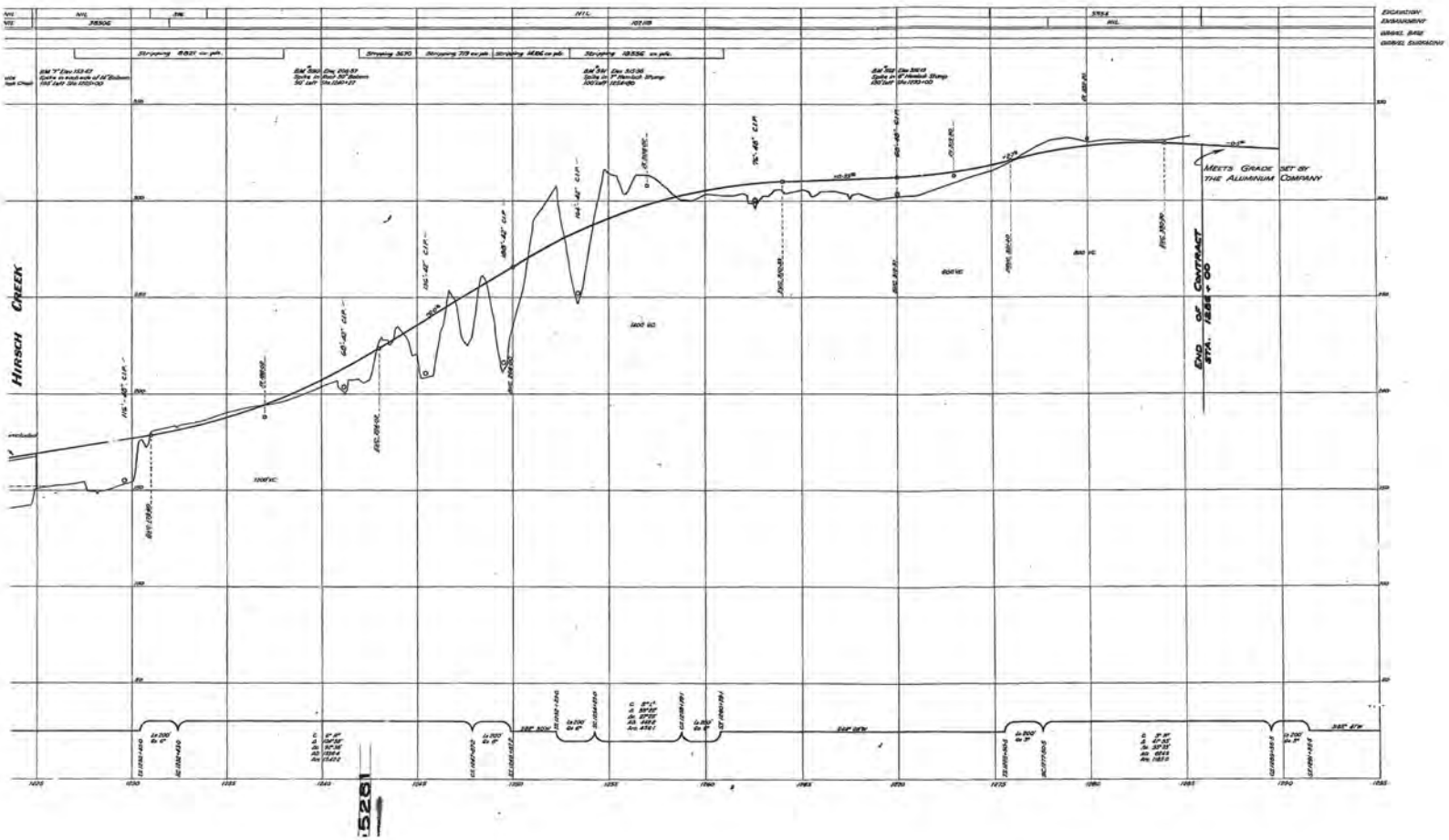

HIRSCH CREEK
5280
5290



PROJECT Nº 693
DEPARTMENT OF HIGHWAYS

PROFILE

TERRACE - KITIMAT HIGHW
NALBEELAH CREEK - KITI

STA. 900+00 - 1286+
7.31 MILES

Scales HOR. 1" = 200'
VERT. 1" = 20'

SURVEY BY Mc ELHANNEY & Mc RAE (Consultants)
DRAWN BY —— Ditto ——
TRACED BY R.R.V.

LOCATION PL

APPROVED

Location Engineer
Date 4th Feb 1956

Chief Engineer
Date 28 Feb 1

PROFILE Nº 2 OF 2 PROFILES
KITIMAT RIVER - KITIMAT

5281

5282