

CANADA — BRITISH COLUMBIA

FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

Water Planning and Management Branch
Inland Waters Directorate
Pacific Region
Ministry of the Environment
Vancouver, British Columbia

Water Investigations Branch
Environmental and Engineering Service
Ministry of the Environment
Victoria, British Columbia

DISTRICT OF MATSQUI

**Operation and Maintenance Instructions
Flood Control Works**

**VOLUME 3
AS CONSTRUCTED DRAWINGS**

District of Matsqui

**Operation & Maintenance Instructions
Flood Control Works**

THE MANUAL

The operation and maintenance instructions for the flood control works for the District of Matsqui are provided in three volumes:

VOLUME 1 GENERAL INSTRUCTIONS

VOLUME 2 PUMPSTATION INSTRUCTIONS

VOLUME 3 AS CONSTRUCTED DRAWINGS

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District of Matsqui
 Operation and Maintenance Instructions
 Flood Control Works

Volume 3
AS CONSTRUCTED DRAWINGS

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**DISTRICT OF MATSQUI
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**Provincial
105 mm
Negative
Number**

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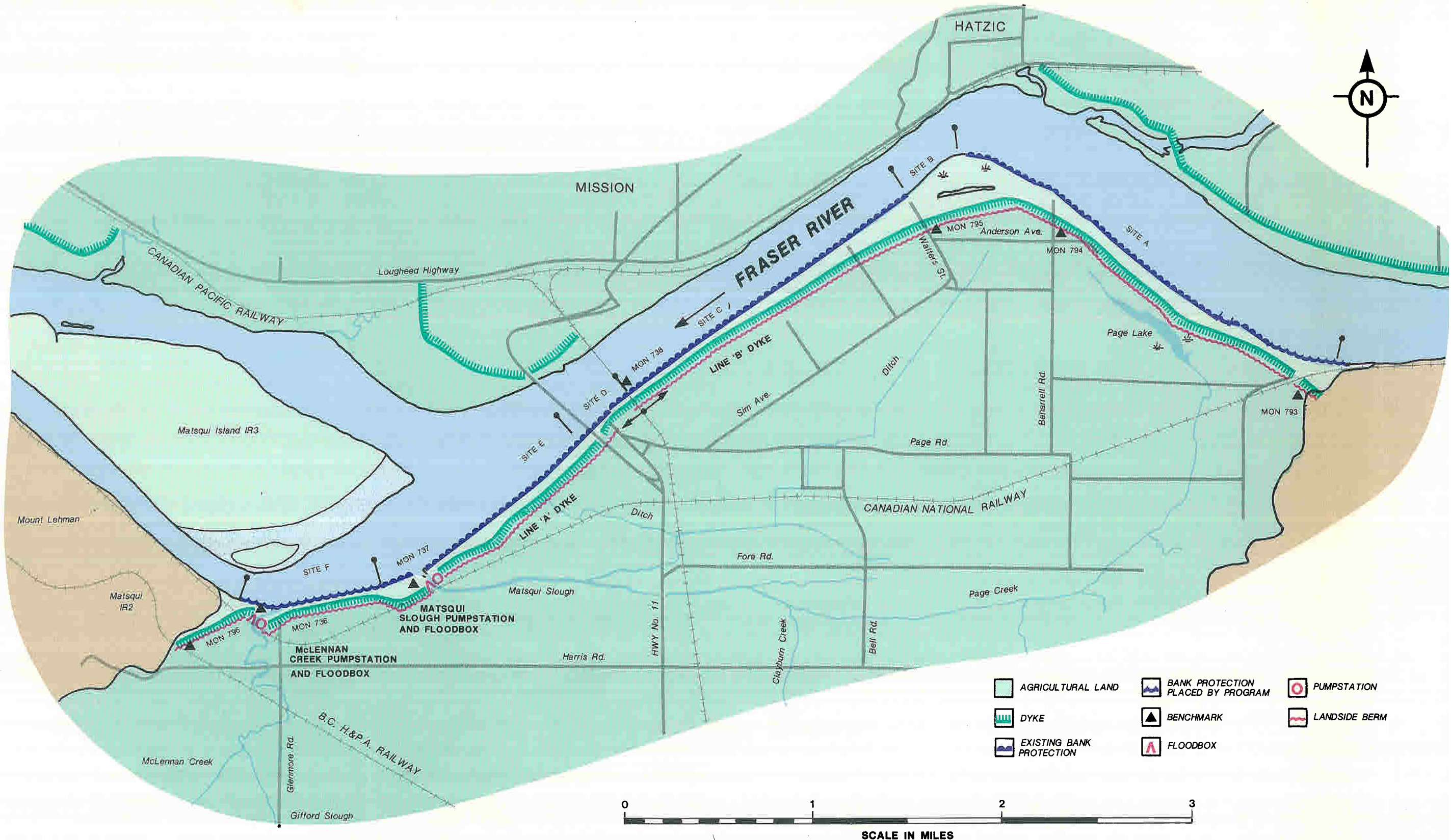
**DISTRICT OF MATSQUI
(As Constructed Drawing List Continued)**

**Provincial
105 mm
Negative
Number**

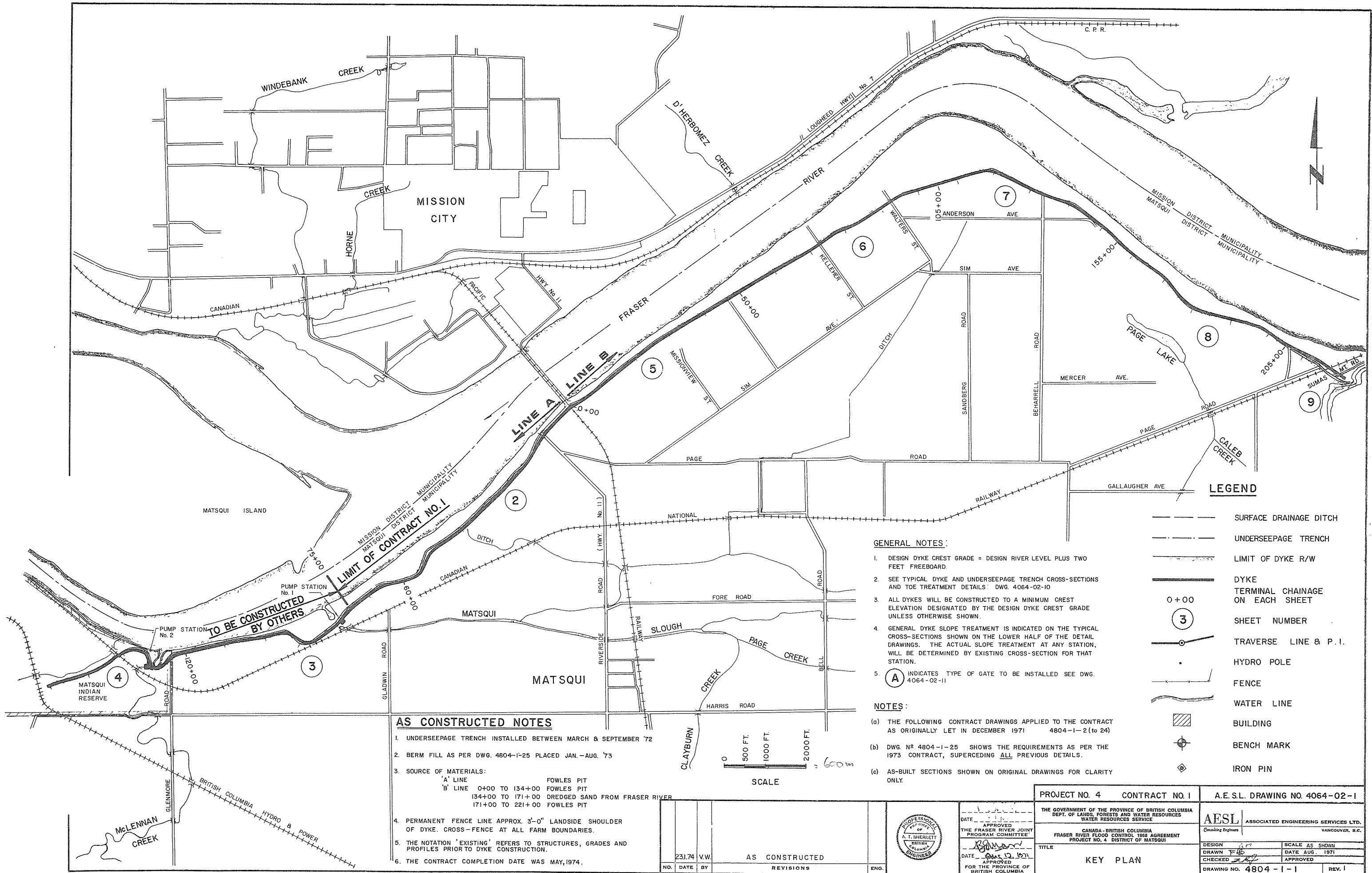
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**DISTRICT OF MATSQUI
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DISTRICT MUNICIPALITY OF MATSQUI



LEGEND

- SURFACE DRAINAGE DITCH
- UNDERSEEPAGE TRENCH
- LIMIT OF DYKE R/W
- DYKE
- TERMINAL CHAINAGE ON EACH SHEET
- 0+00
- 3 SHEET NUMBER
- TRVERSE LINE & P. I.
- HYDRO POLE
- FENCE
- WATER LINE
- ▨ BUILDING
- ⊕ BENCH MARK
- ◇ IRON PIN

GENERAL NOTES:

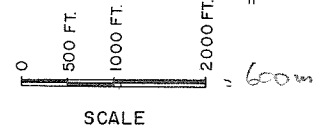
1. DESIGN DYKE CREST GRADE = DESIGN RIVER LEVEL PLUS TWO FEET FREEBOARD.
2. SEE TYPICAL DYKE AND UNDERSEEPAGE TRENCH CROSS-SECTIONS AND TOE TREATMENT DETAILS: DWG. 4064-02-10
3. ALL DYKES WILL BE CONSTRUCTED TO A MINIMUM CREST ELEVATION DESIGNATED BY THE DESIGN DYKE CREST GRADE UNLESS OTHERWISE SHOWN.
4. GENERAL DYKE SLOPE TREATMENT IS INDICATED ON THE TYPICAL CROSS-SECTIONS SHOWN ON THE LOWER HALF OF THE DETAIL DRAWINGS. THE ACTUAL SLOPE TREATMENT AT ANY STATION, WILL BE DETERMINED BY EXISTING CROSS-SECTION FOR THAT STATION.
5. (A) INDICATES TYPE OF GATE TO BE INSTALLED SEE DWG. 4064-02-11

NOTES:

- (a) THE FOLLOWING CONTRACT DRAWINGS APPLIED TO THE CONTRACT AS ORIGINALLY LET IN DECEMBER 1971 4804-1-2 (to 24)
- (b) DWG. NO. 4804-1-25 SHOWS THE REQUIREMENTS AS PER THE 1973 CONTRACT, SUPERCEDING ALL PREVIOUS DETAILS.
- (c) AS-BUILT SECTIONS SHOWN ON ORIGINAL DRAWINGS FOR CLARITY ONLY.

AS CONSTRUCTED NOTES

1. UNDERSEEPAGE TRENCH INSTALLED BETWEEN MARCH & SEPTEMBER '72
2. BERM FILL AS PER DWG. 4804-1-25 PLACED JAN.-AUG. '73
3. SOURCE OF MATERIALS:
 'A' LINE FOWLES PIT
 'B' LINE 0+00 TO 134+00 FOWLES PIT
 134+00 TO 171+00 DREDGED SAND FROM FRASER RIVER
 171+00 TO 221+00 FOWLES PIT
4. PERMANENT FENCE LINE APPROX. 3'-0" LANDSIDE SHOULDER OF DYKE. CROSS-FENCE AT ALL FARM BOUNDARIES.
5. THE NOTATION 'EXISTING' REFERS TO STRUCTURES, GRADES AND PROFILES PRIOR TO DYKE CONSTRUCTION.
6. THE CONTRACT COMPLETION DATE WAS MAY, 1974.

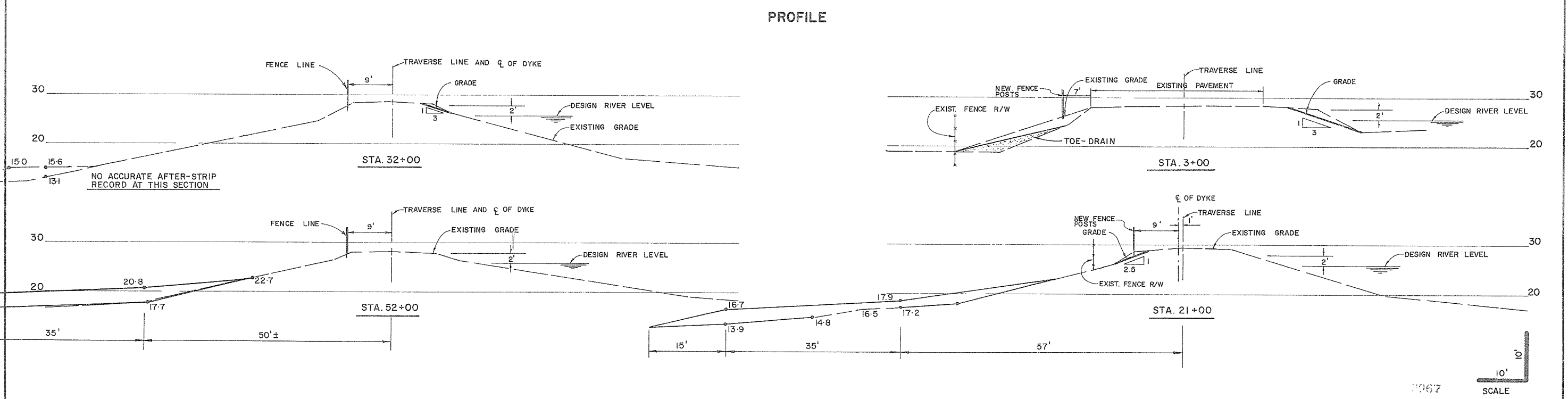
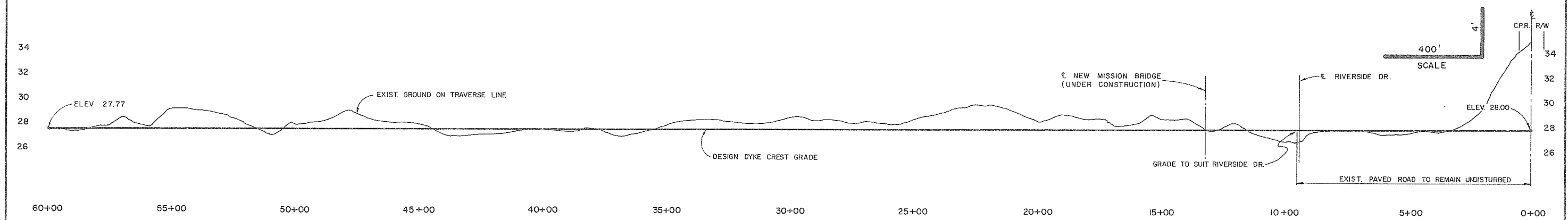
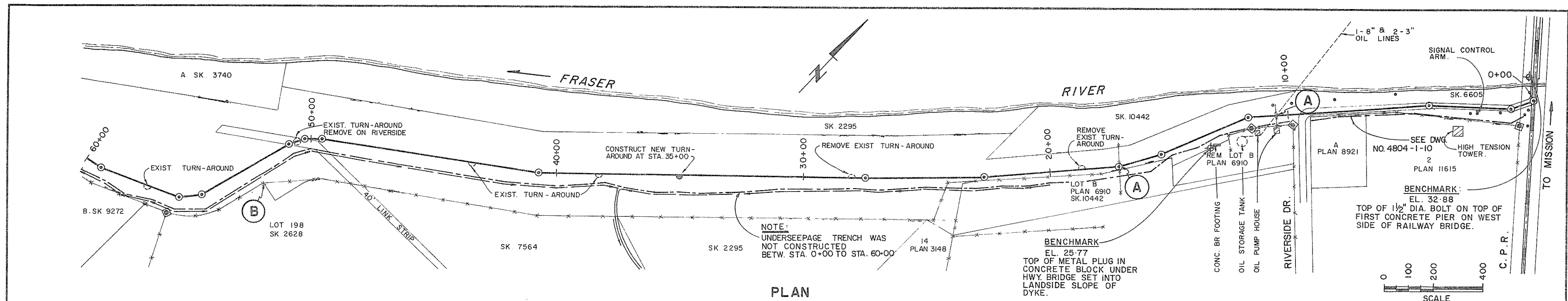


NO.	DATE	BY	REVISIONS	ENG.
231.74	V.W.		AS CONSTRUCTED	



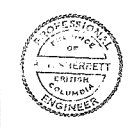
DATE _____ APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 DATE _____ APPROVED
 FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-1
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		TITLE
KEY PLAN		SCALE AS SHOWN
DESIGN	DATE AUG. 1971	APPROVED
DRAWN		
CHECKED		
DRAWING NO. 4804-1-1		REV. 1

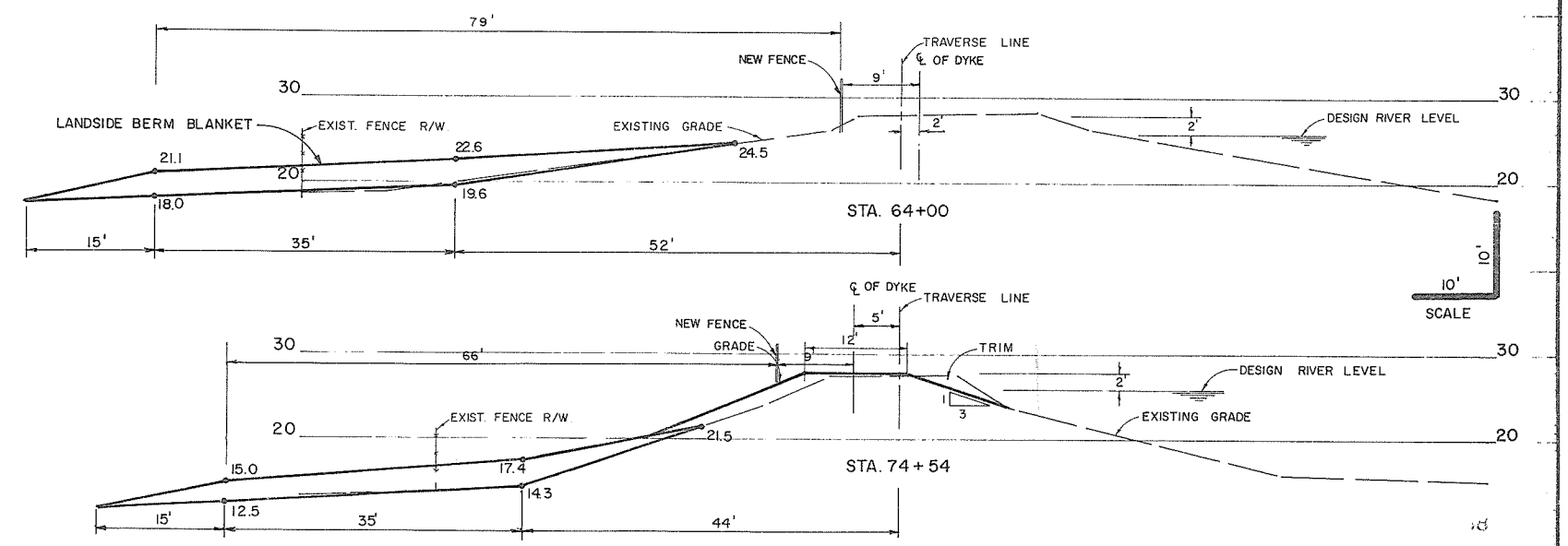
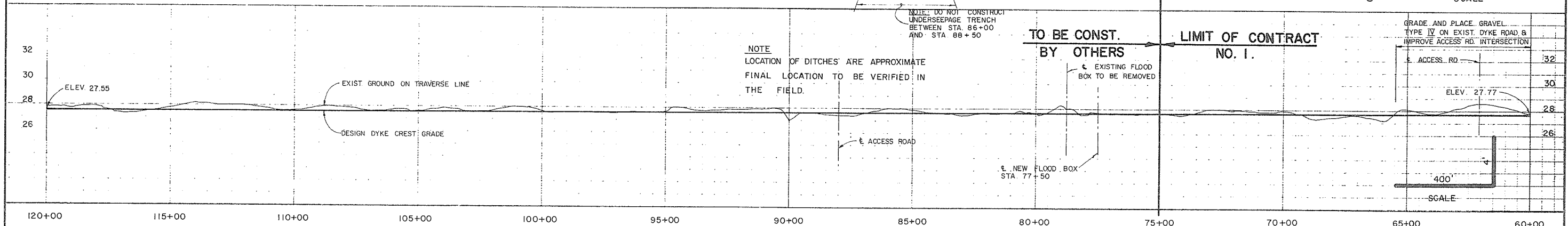
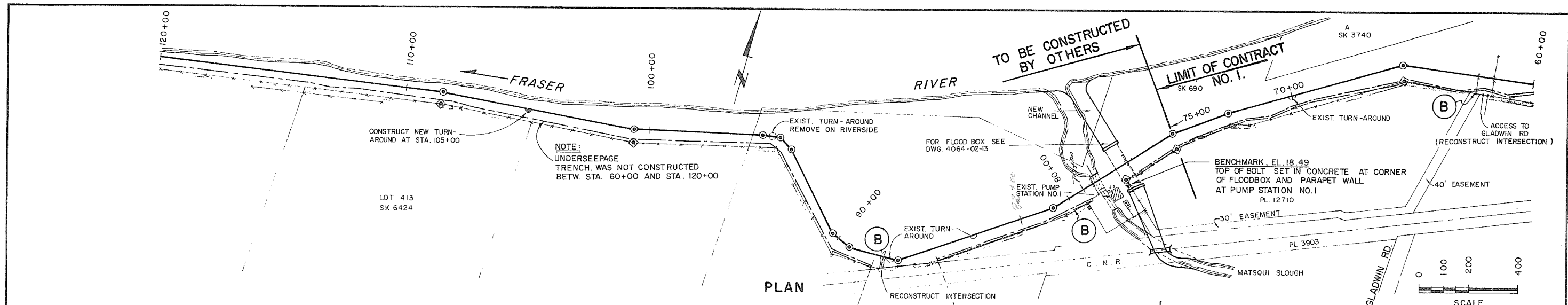


NOTE
 THE DESIGN RIVER LEVEL HAS BEEN SELECTED TO PROTECT AGAINST RECURRENCE OF THE LARGEST FLOOD ON RECORD.

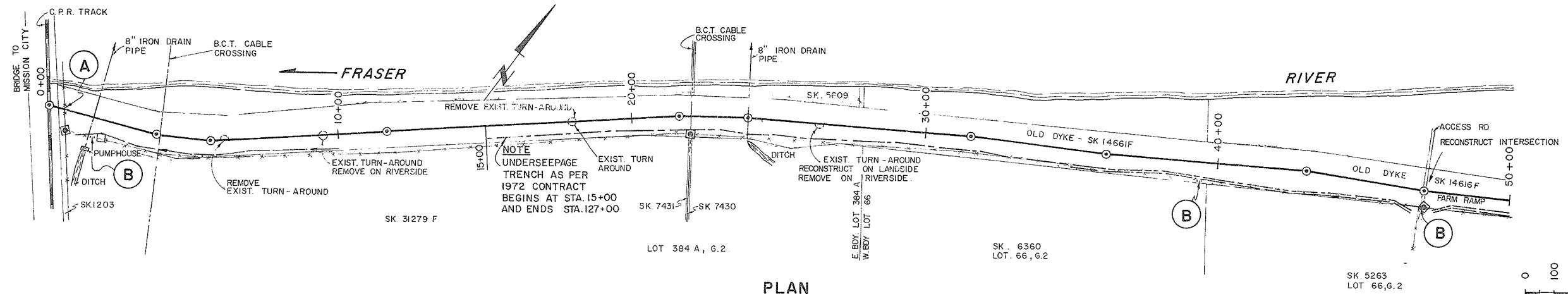
1	21.1.74	V.W.	AS CONSTRUCTED
NO.	DATE	BY	REVISIONS



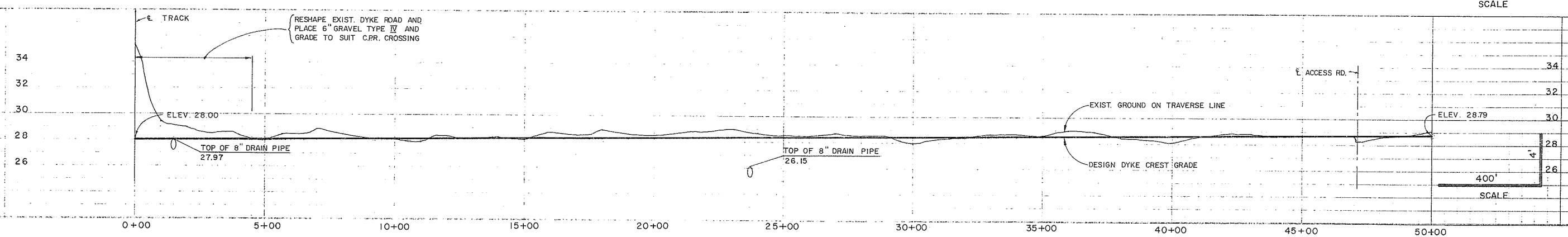
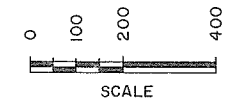
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THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1955 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE PLAN PROFILE & CROSS SECTIONS LINE A STA. 0+00 TO STA. 60+00		SCALE AS SHOWN DATE AUG. 1971
DESIGN	CHECKED	APPROVED
DRAWN	CHECKED	APPROVED
DRAWING NO. 4804-1-2		REV.



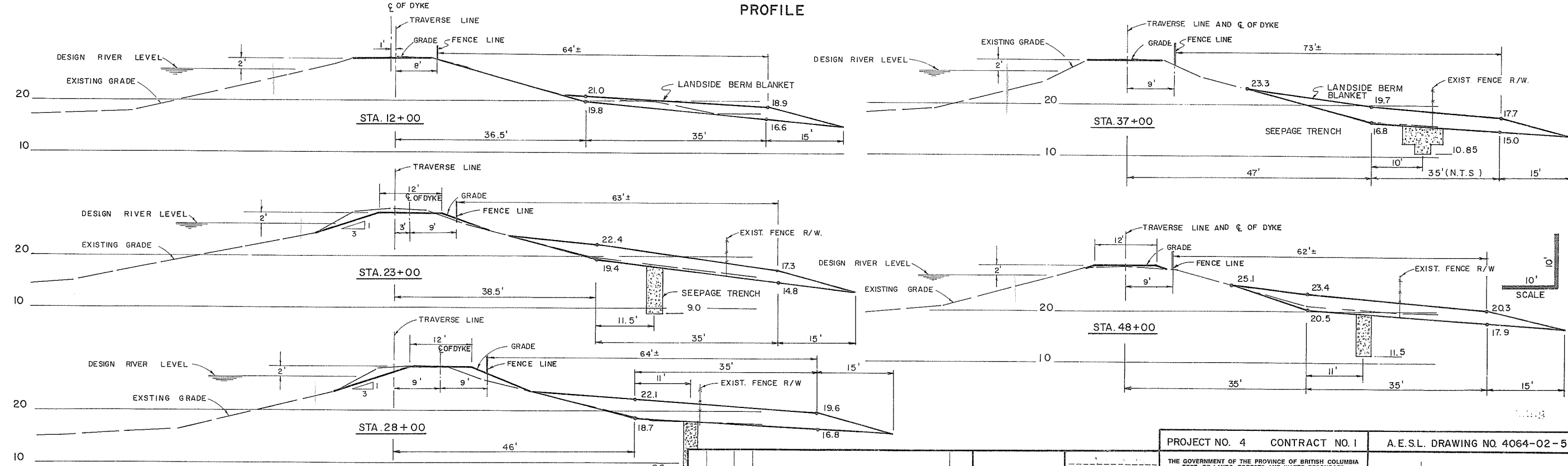
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THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
THE FRASER RIVER JOINT PROGRAM COMMITTEE				CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI	
DATE: 21.1.74 V.V.W.		AS CONSTRUCTED		TITLE: PLAN PROFILE & CROSS SECTIONS LINE A STA. 60+00 TO STA. 120+00	
DATE: Aug 12, 1971		APPROVED		SCALE AS SHOWN	
DATE: Aug 12, 1971		APPROVED		DATE: AUG. 1971	
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DATE: Aug 12, 1971		APPROVED		REV. 1	



PLAN

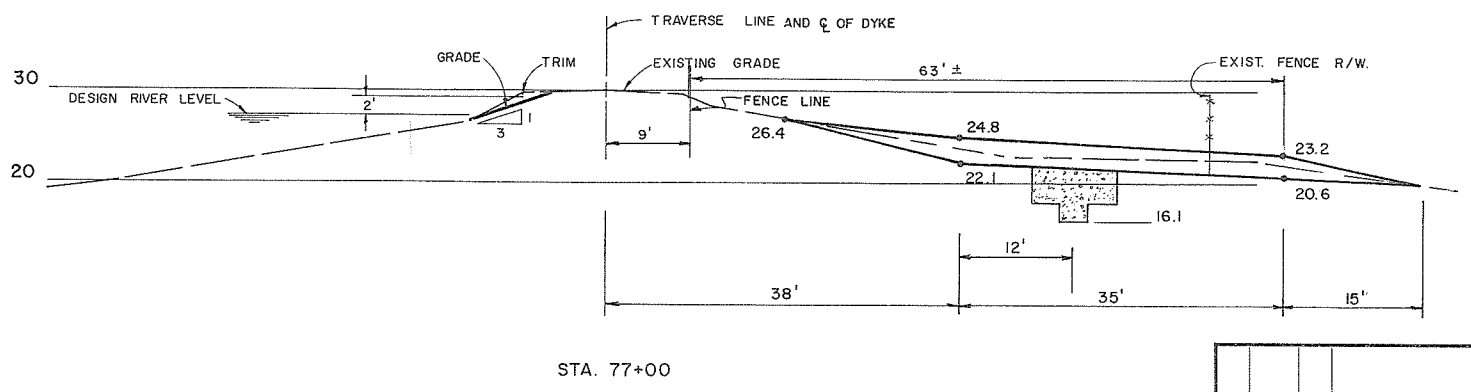
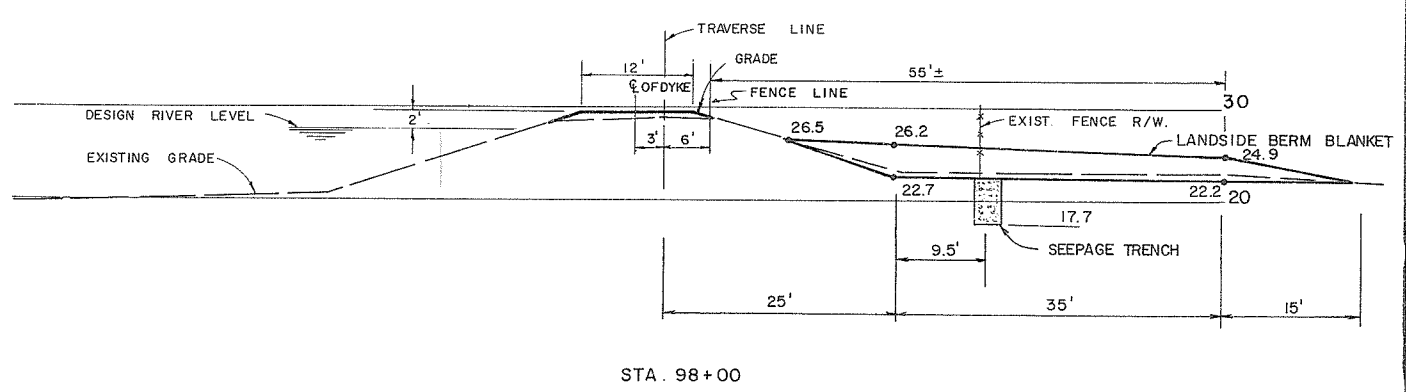
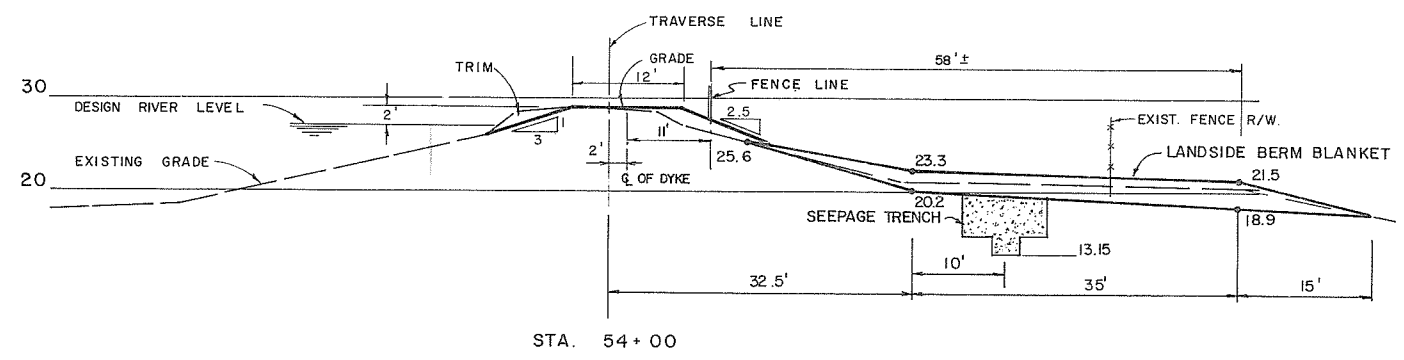
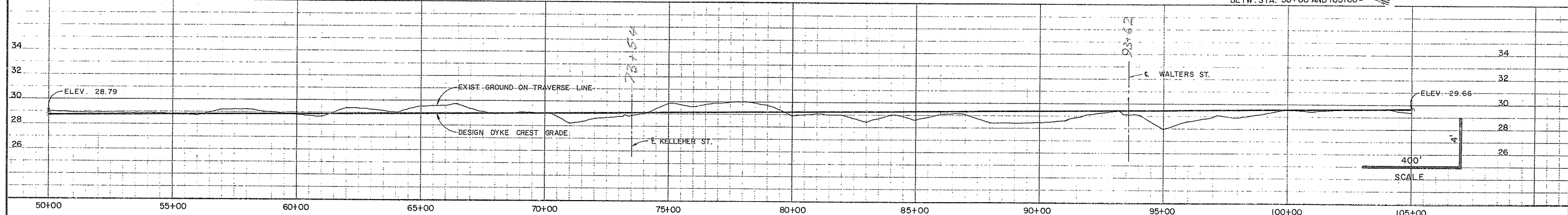
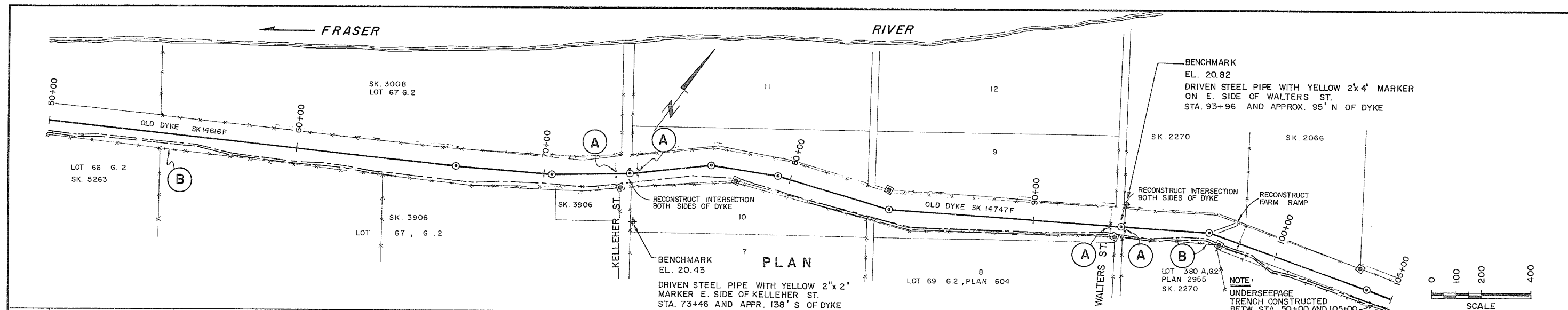


PROFILE



NO.	DATE	BY	REVISIONS	ENG.
1	4.1.74	VW	AS CONSTRUCTED	

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-5
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1986 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
DATE: 12.19.77 APPROVED: [Signature] FOR THE PROVINCE OF BRITISH COLUMBIA	TITLE: PLAN PROFILE & CROSS SECTIONS LINE B STA. 0+00 TO STA. 50+00	AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.
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CHECKED: [Signature]	APPROVED: [Signature]	
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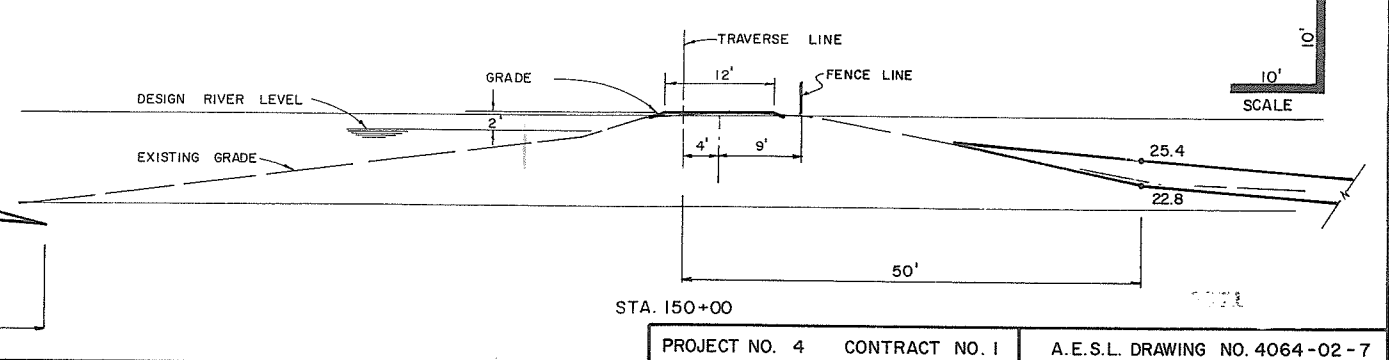
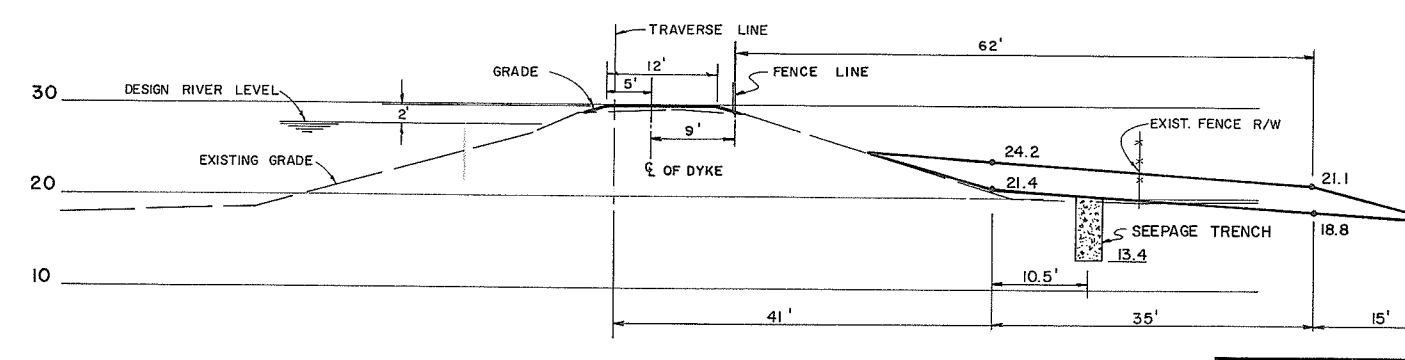
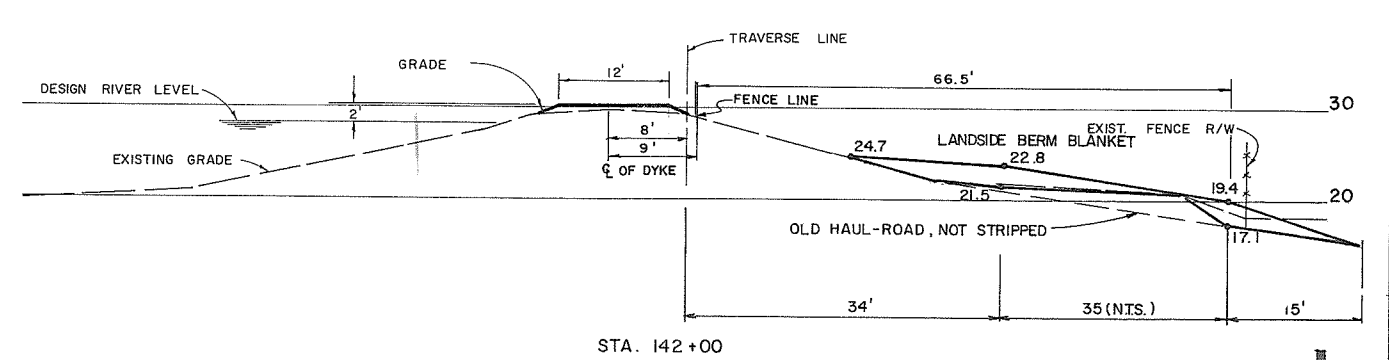
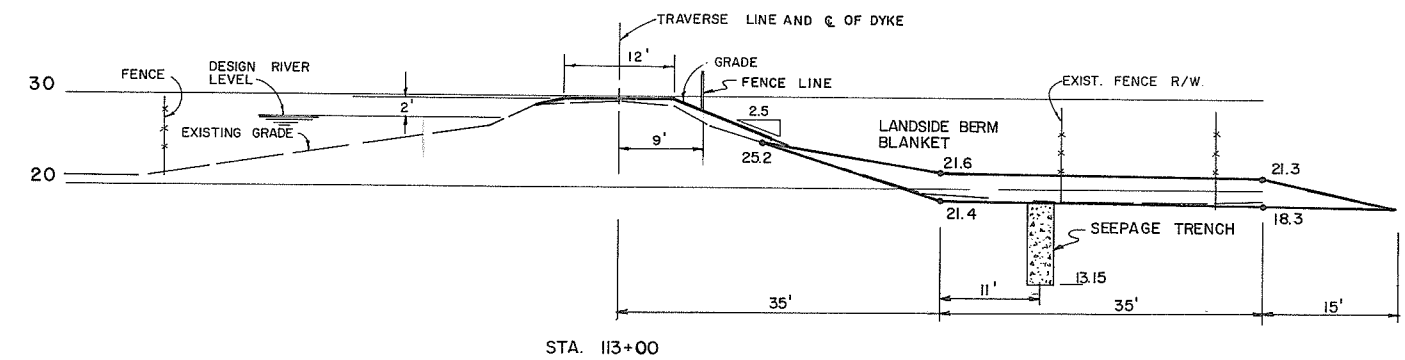
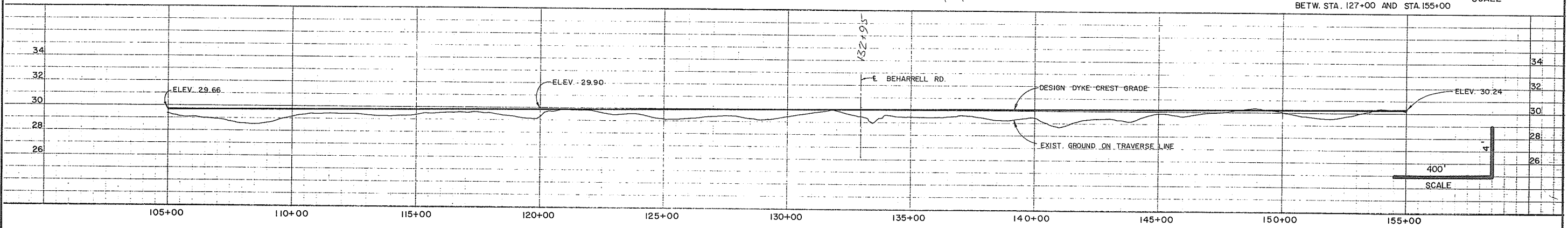
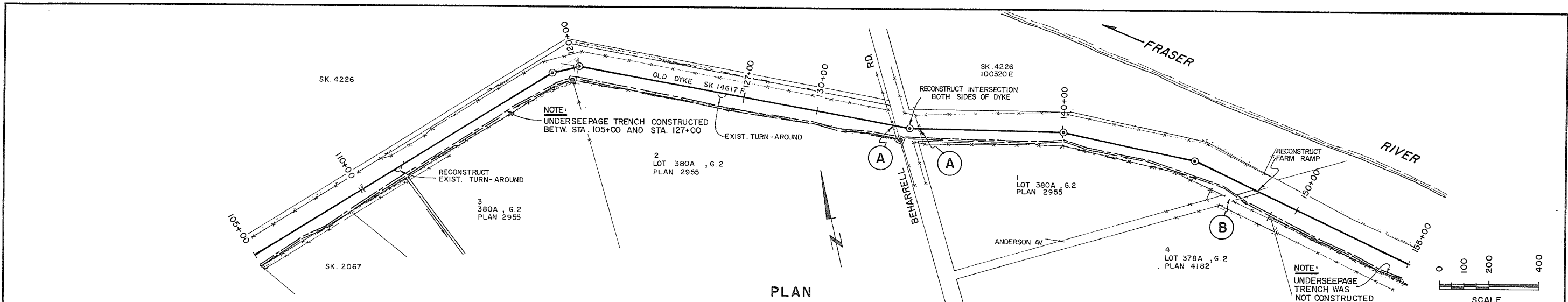


NO.	DATE	BY	REVISIONS
1	15.1.74	V/W	AS CONSTRUCTED



DATE APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 DATE Aug. 12, 1971
 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA

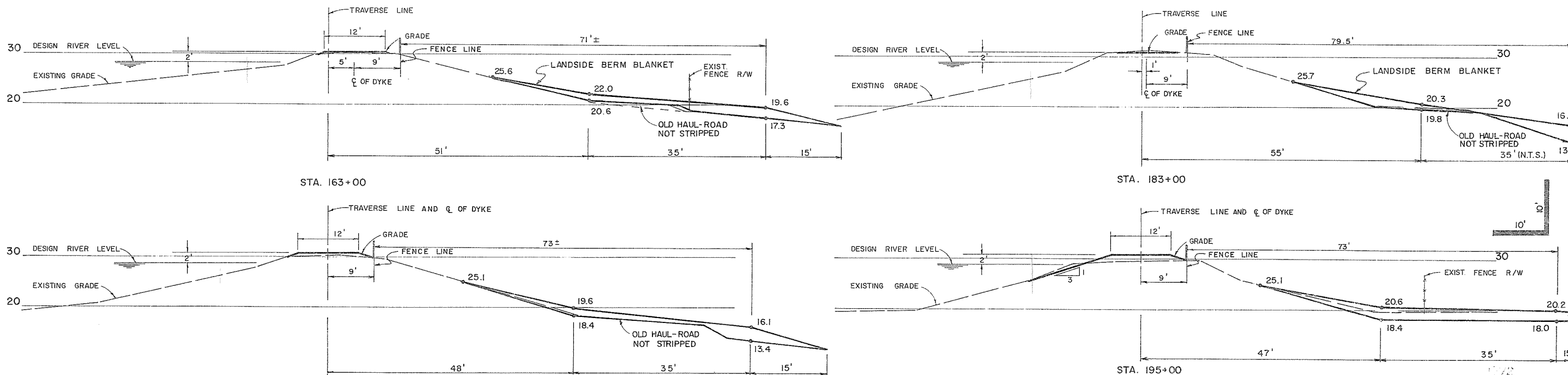
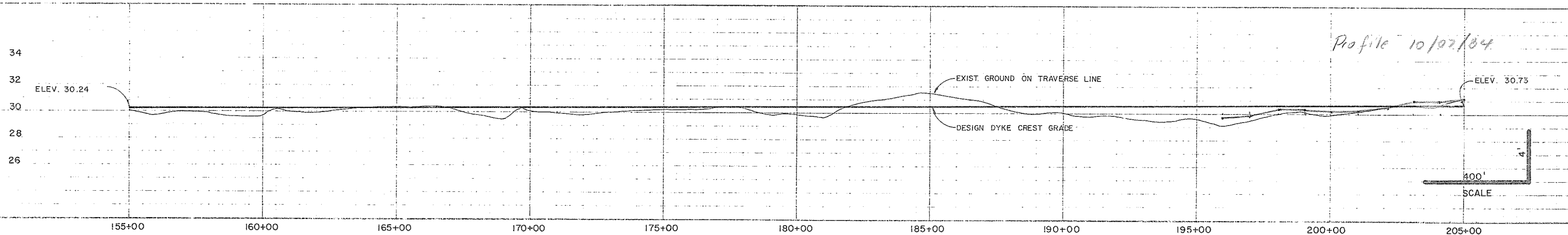
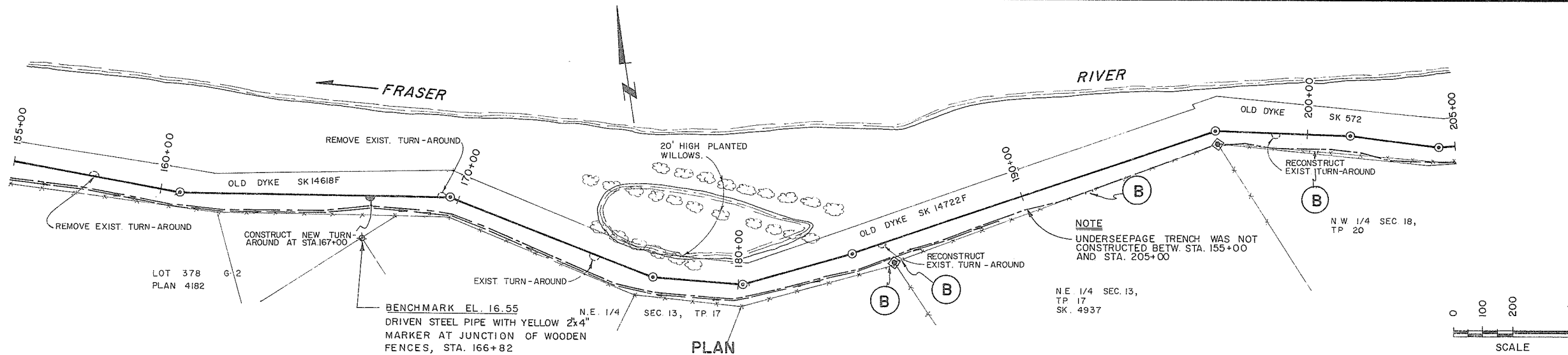
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THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN SCALE AS SHOWN DRAWN DATE AUG. 1971 CHECKED APPROVED DRAWING NO. 4804-1-6 REV.
TITLE PLAN PROFILE & CROSS SECTIONS LINE B STA. 50+00 TO STA. 105+00		



NO.	DATE	BY	REVISIONS	ENG.
1	15.1.74	V.W.	AS CONSTRUCTED	

DATE APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 DATE *Aug 12, 1971*
 APPROVED
 FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-7
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Vancouver, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN SCALE AS SHOWN
TITLE PLAN PROFILE & CROSS SECTIONS LINE B STA. 105+00 TO STA. 155+00		DRAWN DATE AUG. 1971
CHECKED APPROVED		DRAWING NO. 4804-1-7
		REV.

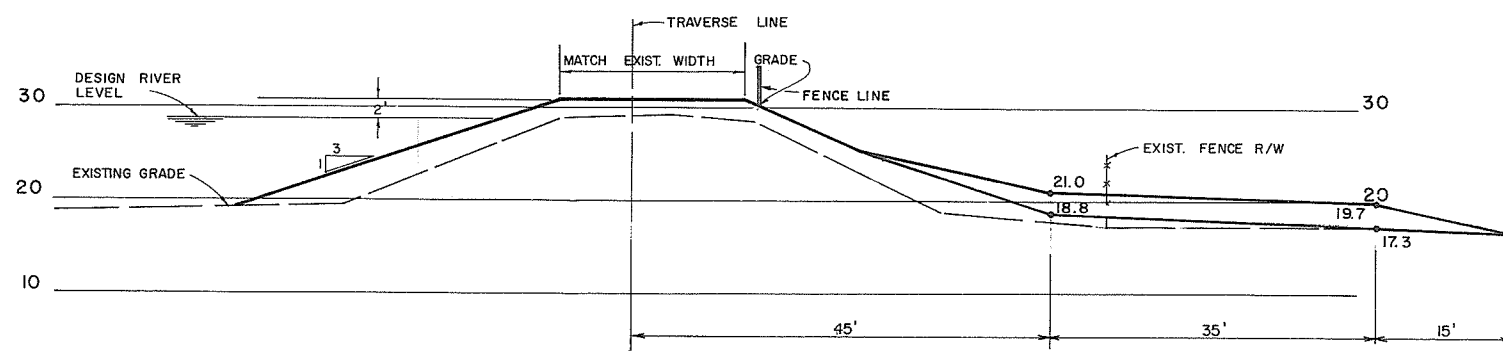
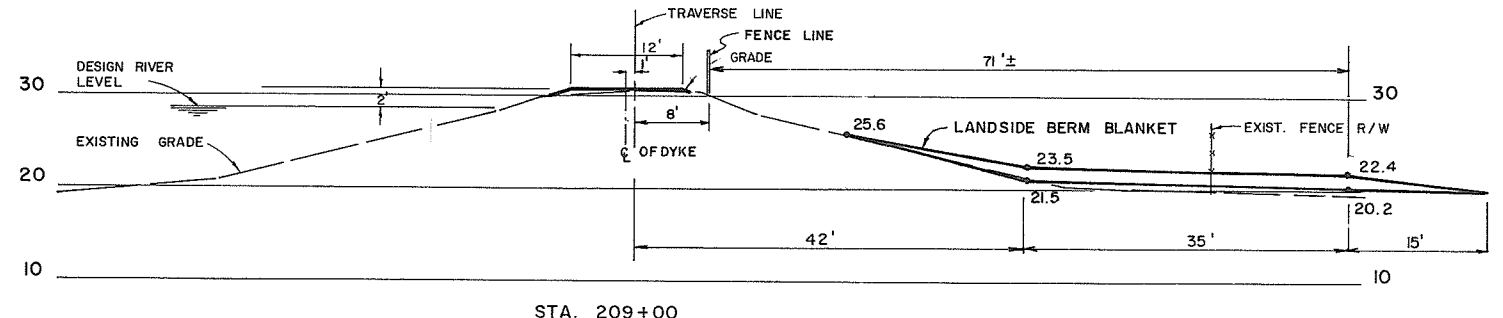
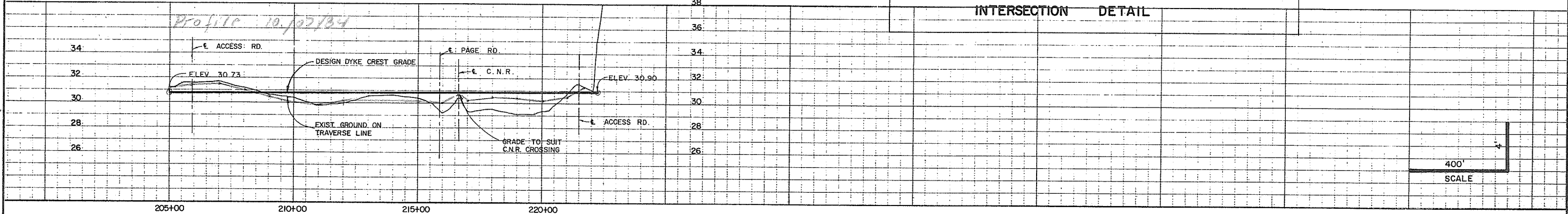
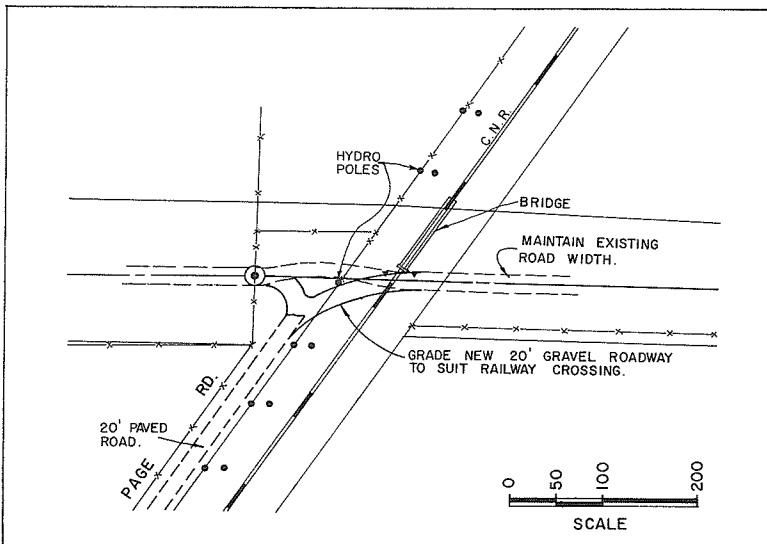
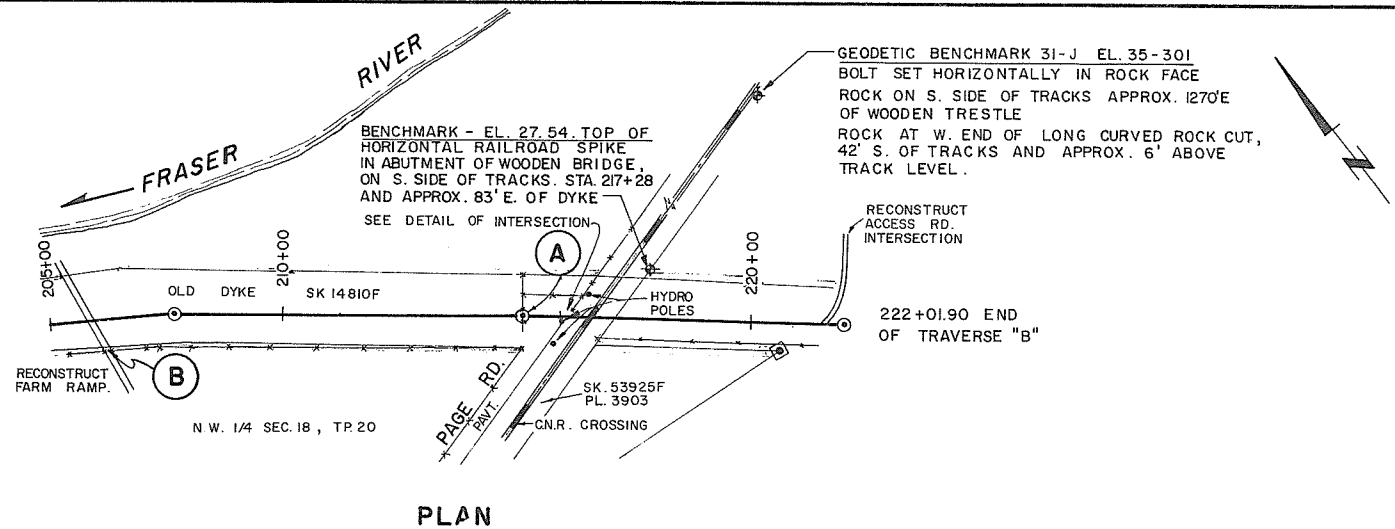


NO.	DATE	BY	REVISIONS
1	18.1.74	V.W	AS CONSTRUCTED



DATE	APPROVED
DATE	APPROVED

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-8
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1965 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE	SCALE AS SHOWN	DATE AUG. 1971
PLAN PROFILE & CROSS SECTIONS LINE B STA. 155+00 TO STA. 205+00	DATE	APPROVED
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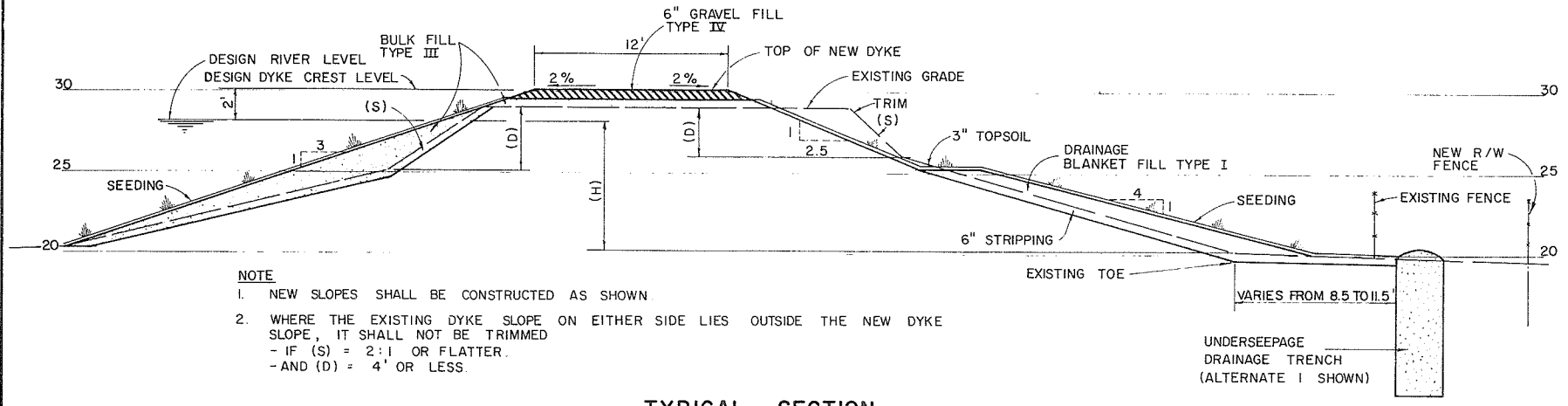


NO.	DATE	BY	REVISIONS
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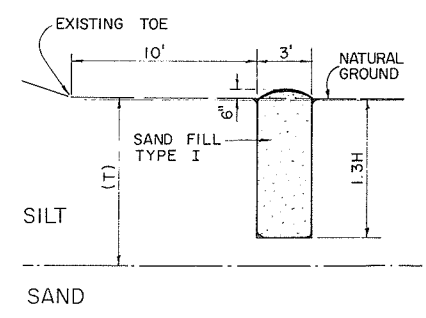
DATE APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 DATE 22.12.1971
 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-9
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Consulting Engineers</small> VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1969 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE PLAN PROFILE & CROSS SECTIONS LINE B STA. 205+00 TO STA. 222+01.90		DESIGN SCALE AS SHOWN DRAWN DATE AUG. 1971 CHECKED APPROVED DRAWING NO. 4804-1-9 REV. 1

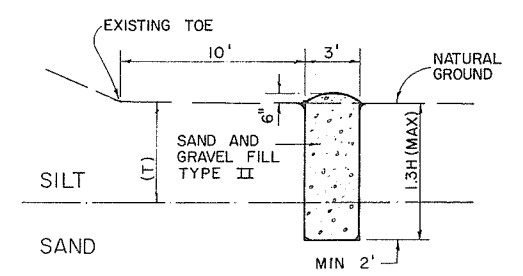


NOTE
 1. NEW SLOPES SHALL BE CONSTRUCTED AS SHOWN
 2. WHERE THE EXISTING DYKE SLOPE ON EITHER SIDE LIES OUTSIDE THE NEW DYKE SLOPE, IT SHALL NOT BE TRIMMED
 - IF (S) = 2:1 OR FLATTER.
 - AND (D) = 4' OR LESS.

TYPICAL SECTION

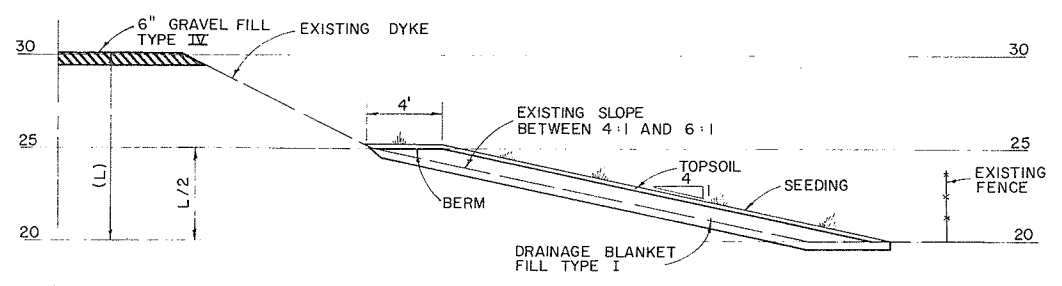


ALTERNATE 1
 $T > 1.3H$

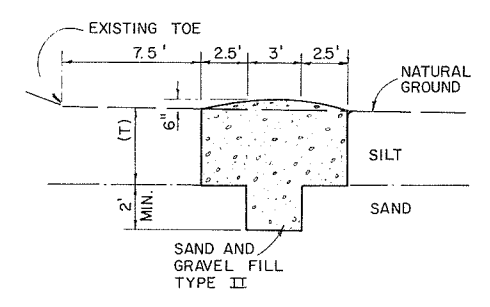


ALTERNATE 2
 $1.3 > T > 1/2 H$

- WHERE EXISTING LAND SIDE SLOPE IS STEEPER THAN 4:1, THE NEW SLOPE OF THE BERM SHALL BE 4:1
- WHERE SLOPE IS STEEPER THAN 6:1 AND FLATTER THAN 4:1, THE NEW SLOPE OF THE BERM SHALL BE PARALLEL TO THE EXISTING SLOPE.
- WHERE THE SLOPE IS FLATTER THAN 6:1, NO TREATMENT WILL BE REQUIRED.



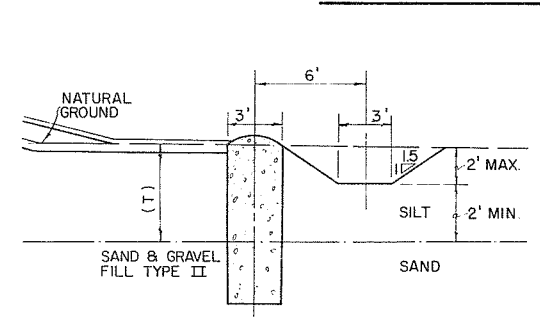
TYPICAL BERM SECTION



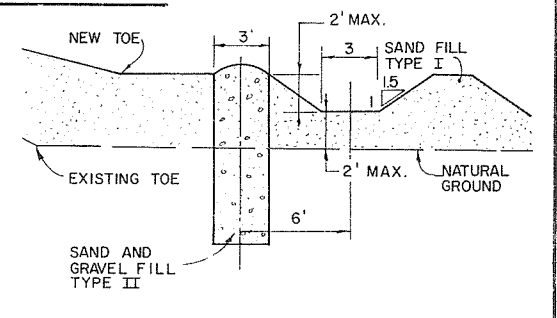
ALTERNATE 3
 $1/2 H > T$

- ALTERNATE 1
 WHERE T (THICKNESS OF SILT STRATUM) IS GREATER THAN 1.3H, TRENCH SHALL BE BACKFILLED WITH SAND FILL TYPE I
- ALTERNATE 2
 DEPTH OF TRENCH SHALL BE 1.3H OR 2' INTO SAND WHICHEVER IS LESSER. TRENCH SHALL BE BACKFILLED WITH SAND AND GRAVEL FILL TYPE II
- ALTERNATE 3
 WHERE T IS LESS THAN 1/2 H, TRENCH SHALL BE 8' WIDE AT THE TOP AND SHALL BE BACKFILLED WITH SAND AND GRAVEL FILL TYPE II

UNDERSEEPAGE TRENCH DRAIN



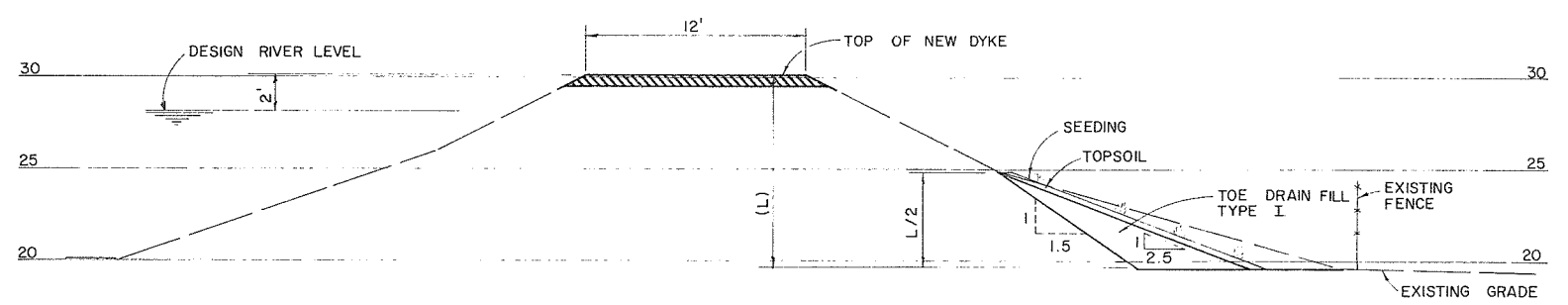
CUT



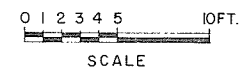
FILL

TYPICAL TOE DRAIN SECTION WHERE R/W RESTRICTION ENCOUNTERED

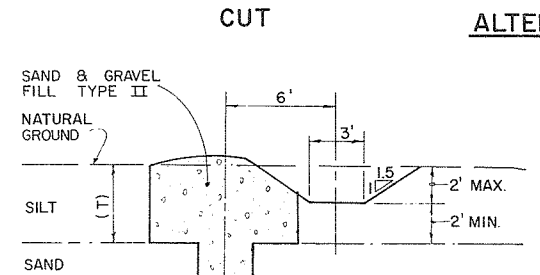
NOTE: THIS METHOD USED ONLY ALONGSIDE HIGHWAY 11 BETWEEN A 0+50 AND A 9+00



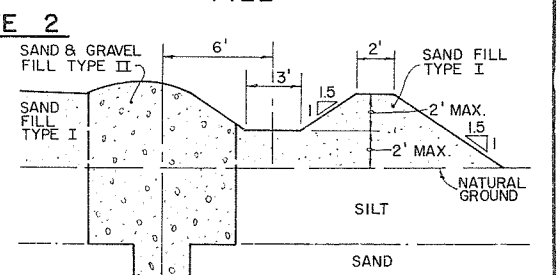
LEGEND
 (H) = HEIGHT OF DESIGN RIVER LEVEL ABOVE NATURAL GROUND AT LANDSIDE TOE.
 (L) = HEIGHT OF DYKE CREST ABOVE NATURAL GROUND AT LANDSIDE TOE.
 (S) = DYKE SIDE SLOPE.
 (D) = DISTANCE FROM EXISTING DYKE CREST TO BREAK IN SIDE SLOPE.



NOTE: UNDER TERMS OF 1972 CONTRACT, UNDER SEEPAGE TRENCH CONSTRUCTED FROM B 15+00 TO B 127+00 DETAILS AS PER SECTIONS ON THIS DRAWING FOR DETAILS OF INDIVIDUAL SECTIONS SEE DWG. NO.'S 5, 6 AND 7



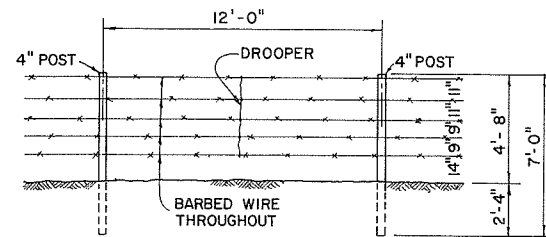
CUT



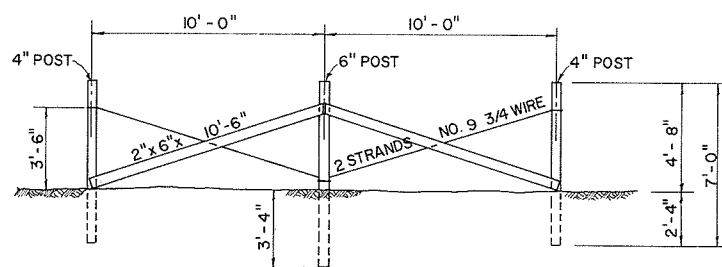
FILL

SURFACE DRAINAGE DITCH

PROJECT NO. 4	CONTRACT NO. 1	AESL DRAWING NO. 4064-02-10
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN: [Signature] SCALE AS SHOWN
TITLE: MISCELLANEOUS DETAILS		DRAWN: [Signature] DATE: AUGUST 1971
DATE: [Signature] APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		CHECKED: [Signature] APPROVED
NO. DATE BY REVISIONS		DRAWING NO. 4804-1-10 REV. 1



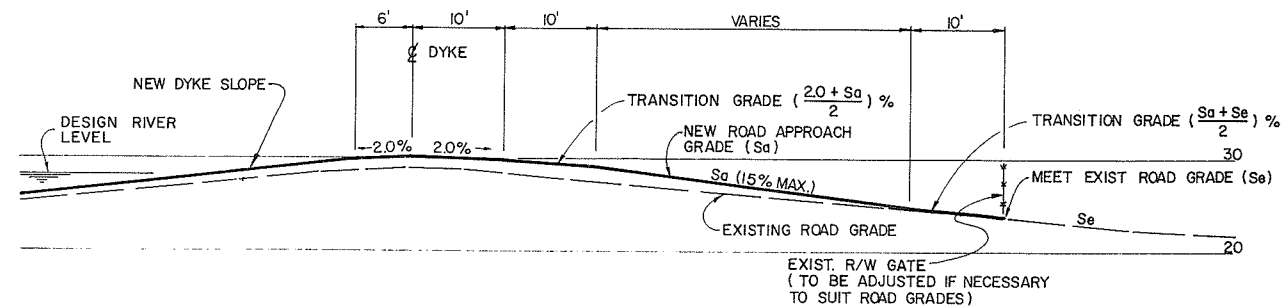
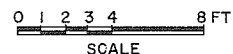
NOTE
DROOPERS SHALL BE 9GA. GALVANIZED SPECIAL TWISTED FENCE STAY 4'-0" LONG, LOCATED MIDWAY BETWEEN POSTS.



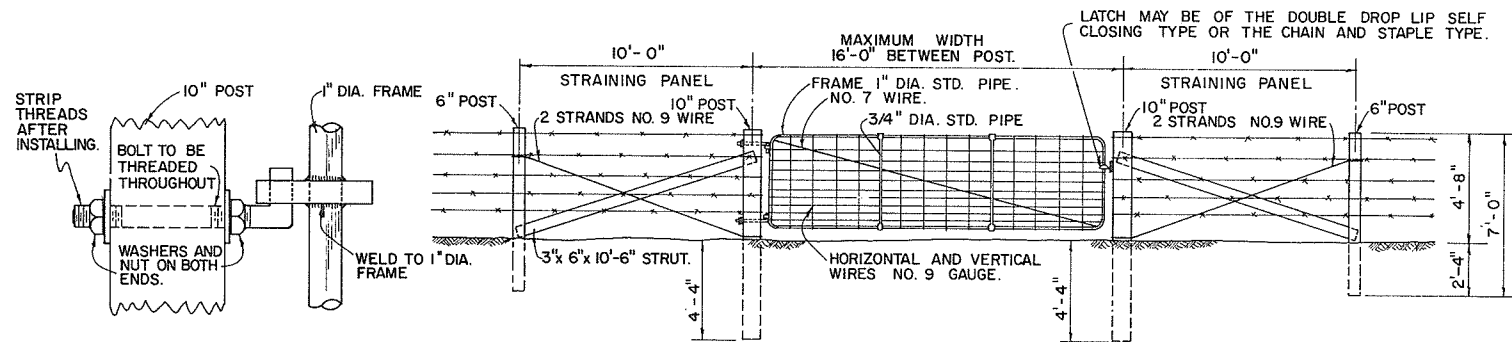
NOTE
MAXIMUM DISTANCE FOR STRAINING POST IS 300' OR AT AN ABRUPT CHANGE OF GROUND LINE.

STRAINING POSTS

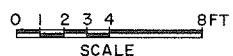
FENCING DETAILS



ROAD APPROACH DETAIL



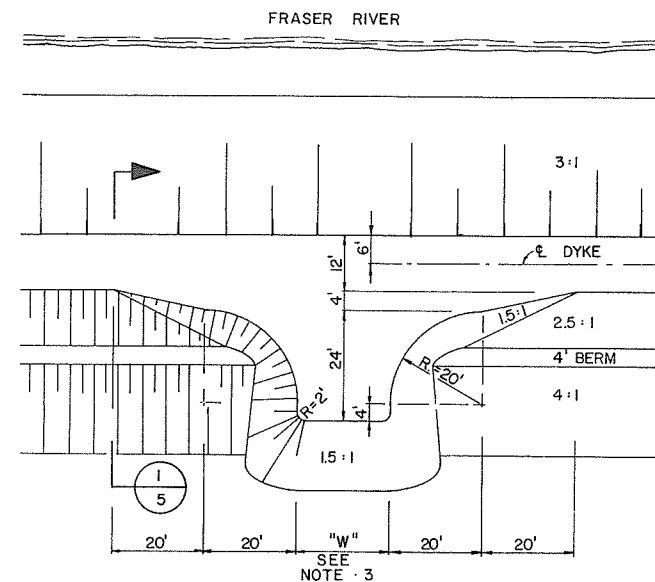
TYPE B GATE



HINGE DETAIL

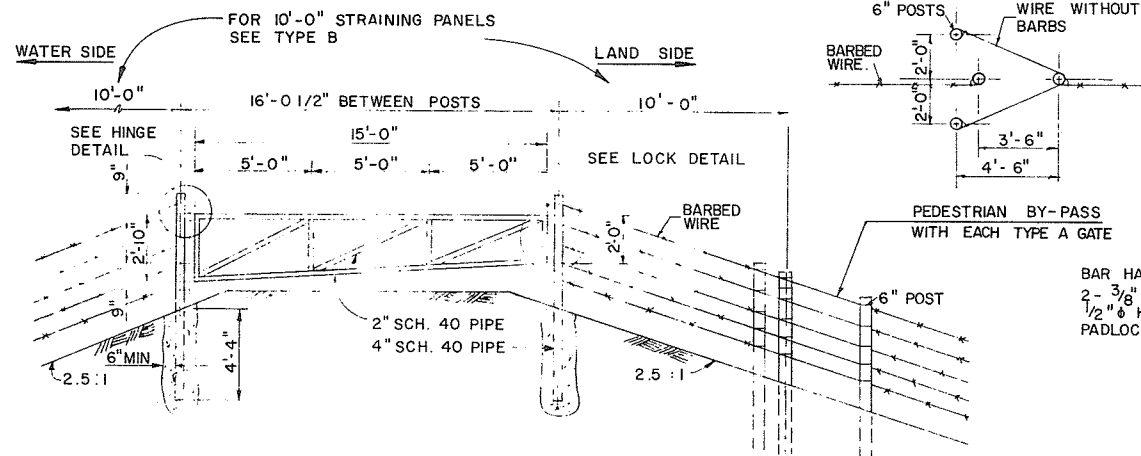
GENERAL NOTES
THE WIDTH OF OPENING BETWEEN GATE POSTS MAY BE VARIED TO SUIT LOCAL CONDITIONS, BUT THE MAXIMUM SHALL BE 16 FEET.

GENERAL SPECIFICATIONS FOR TYPE B GATE
HEIGHT: 48", FRAME: 1" DIA. STANDARD PIPE, UPRIGHT BRACES: 3/4" DIA. STANDARD PIPE. BRACE WIRE: NO. 7 GAUGE, FILLING WIRE: NO. 9 GAUGE. FRAME WELDED AT JOINTS AND GALVANIZED AFTER WELDING. PAIR OF HINGES AND LATCH TO BE SUPPLIED. ALL PIPE, WIRE AND FITTINGS TO BE GALVANIZED.

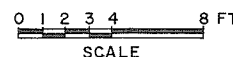


- NOTES:**
- ALL ROAD INTERSECTIONS SHALL BE CONSTRUCTED SAME AS TURN AROUND IN PLAN
 - GRADES FOR ROAD SHALL BE AS SHOWN IN ROAD APPROACH DETAIL.
 - ROAD WIDTHS AS SHOWN BELOW:

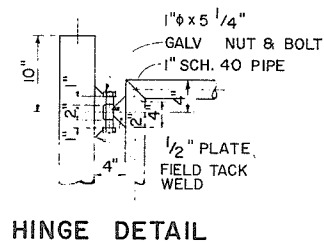
DESCRIPTION	"W" (WIDTH)
TURN-AROUNDS	20'
DRIVEWAYS	16'
FARM RAMPS	12'
ACCESS ROADS	TO SUIT - 16' MIN



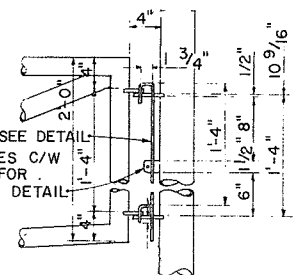
TYPE A GATE



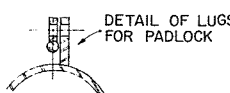
- NOTES**
- ALL HARDWARE TO BE GALVANIZED.
 - WHOLE ASSEMBLY TO BE HOT DIPPED GALV. AFTER FABRICATION.
 - GATE POSTS TO BE APPROX 8'-9" LONG
 - GATE POSTS TO BE THREADED AND CAPPED
 - CONTRACTOR TO SUPPLY HINGES, LATCH, DROP BOLTS AND LOCK WITH MASTER KEY.



HINGE DETAIL

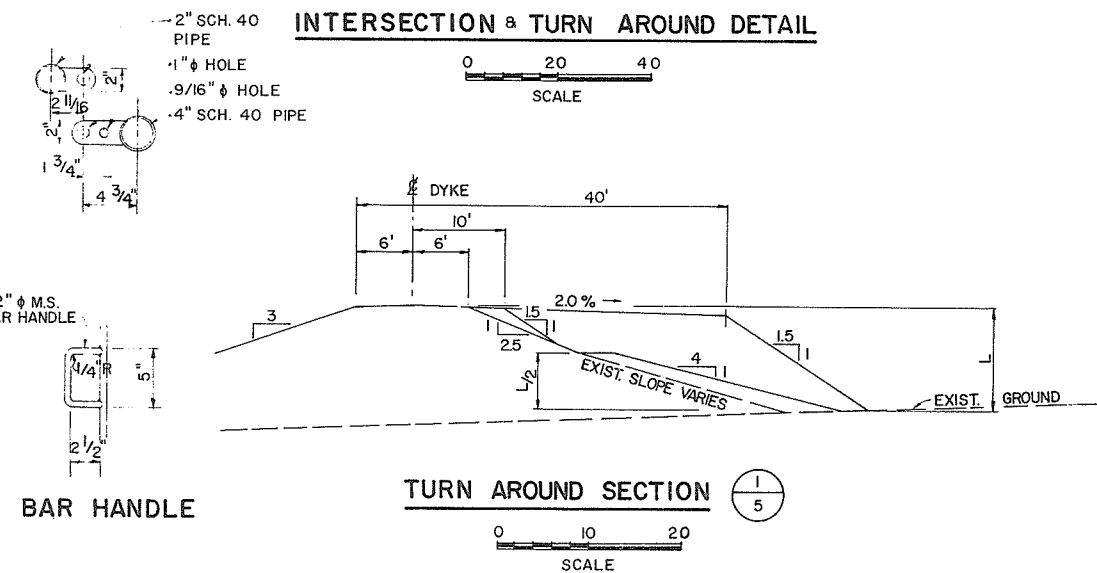


LOCK DETAIL



NO.	DATE	BY	REVISIONS
1	23.1.74	V.W.	AS CONSTRUCTED

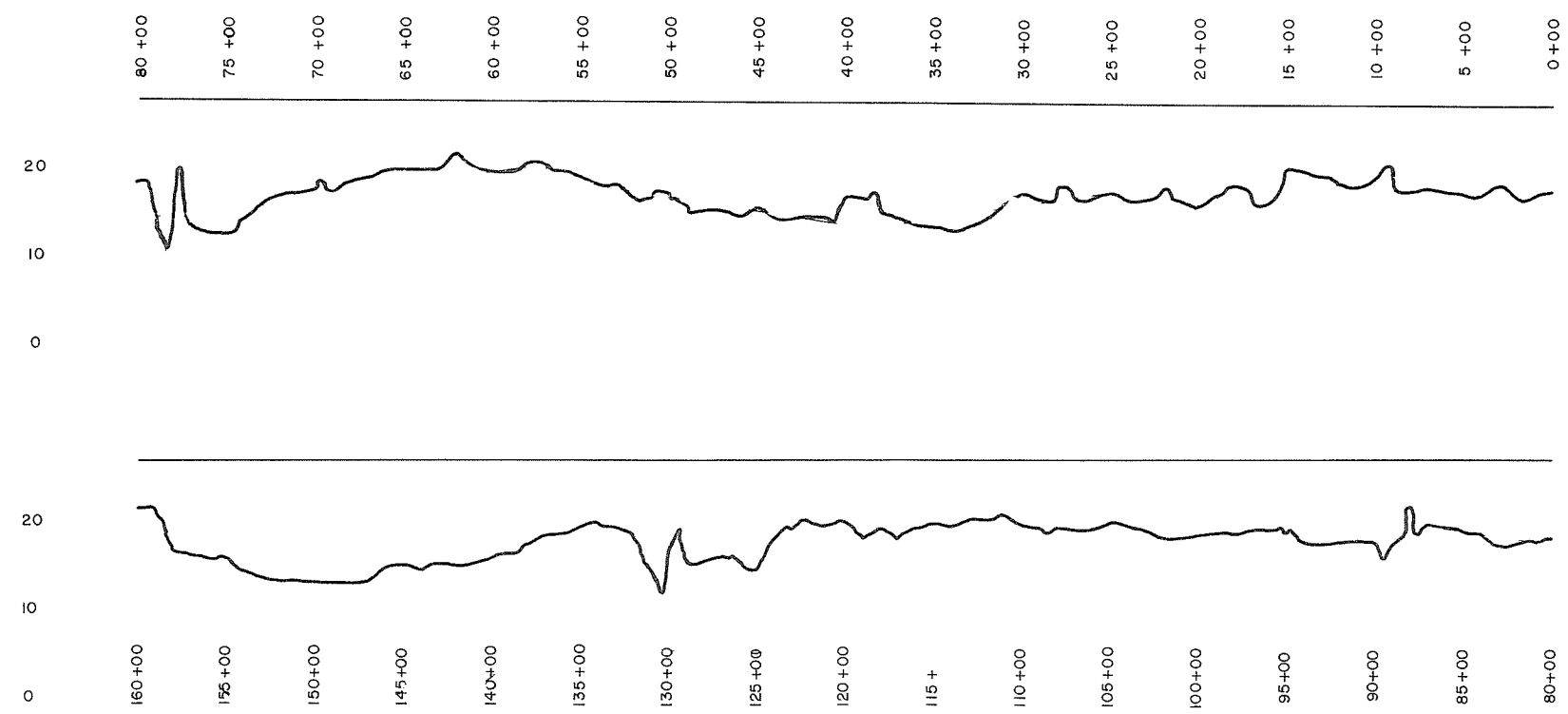
INTERSECTION & TURN AROUND DETAIL



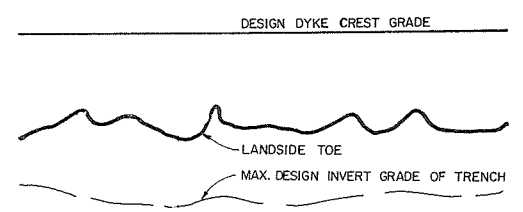
TURN AROUND SECTION



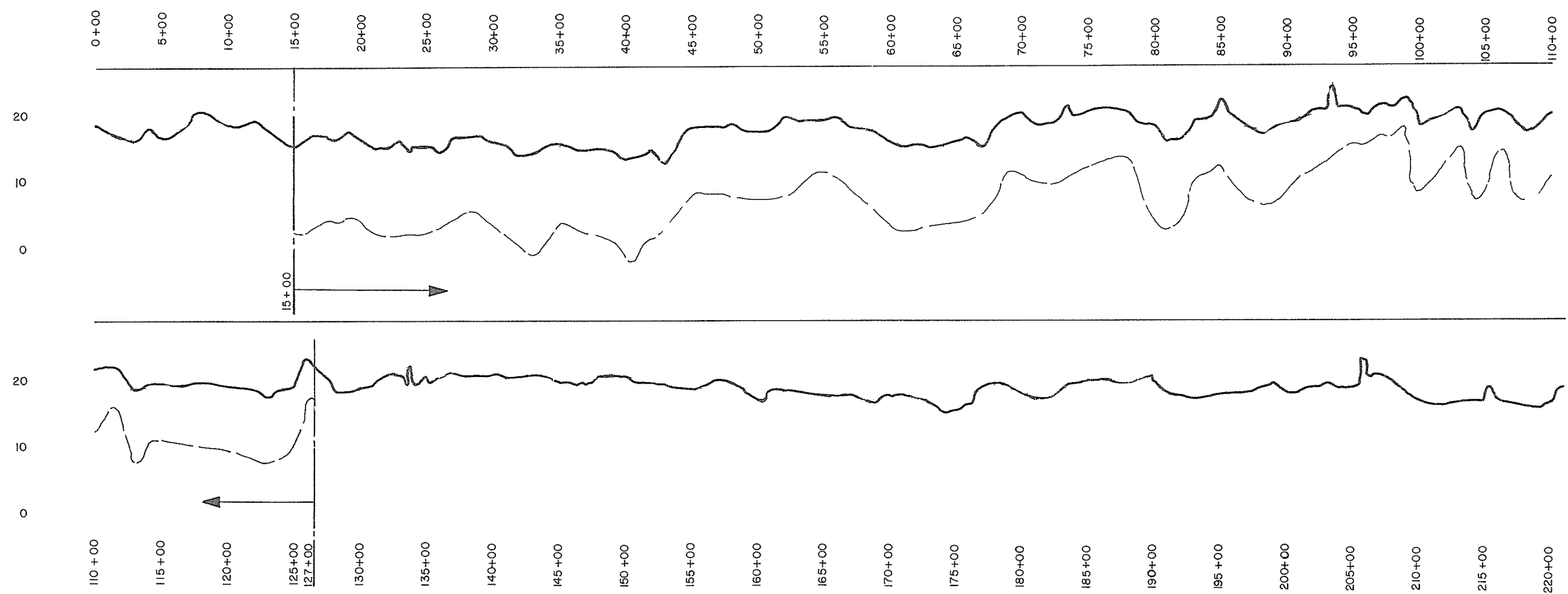
PROJECT NO. 4	CONTRACT NO. 1	AESL DRAWING NO. 4064-02-11
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1969 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
DESIGN	SCALE AS SHOWN	
DRAWN	DATE AUGUST 1971	
CHECKED	APPROVED	
DRAWING NO. 4804-1-11	REV. 1	



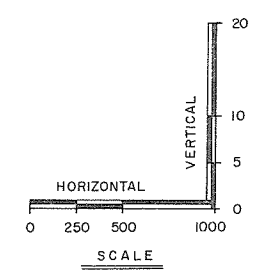
LEGEND



LINE A



LINE B

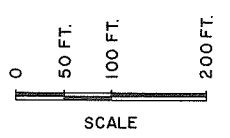
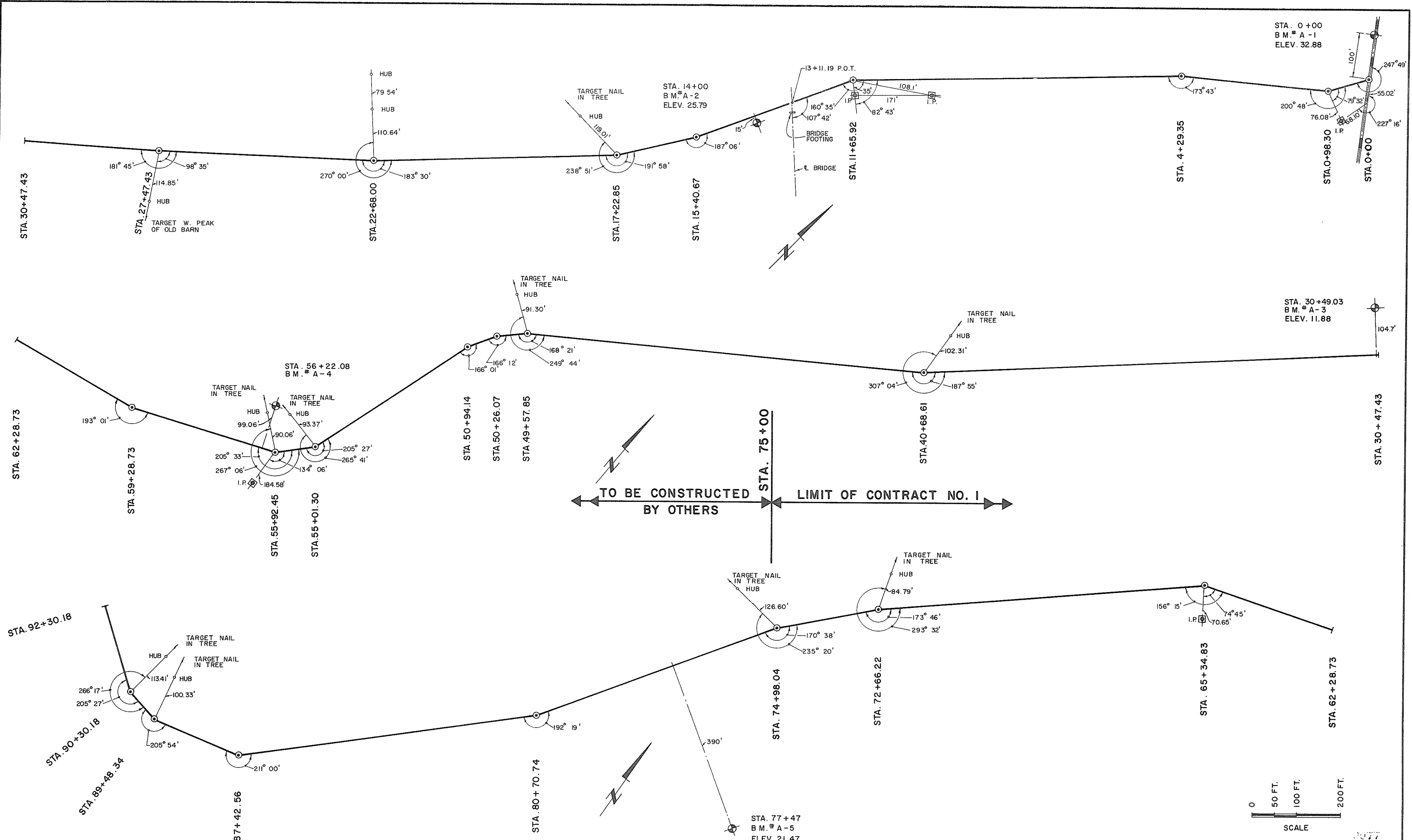


NO.	DATE	BY	REVISIONS	ENG.
1	22.6.78	V.W	UNDERSEEPAGE DRAINAGE TRENCH CONSTRUCTED 1972 ON LINE 'B' BETW. STA. 15+00 AND 127+00 AS CONSTRUCTED	

APPROVED
 T. SHERNETT
 BRITISH COLUMBIA
 ENGINEER

DATE 1971
 APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 DATE Aug 12, 1971
 APPROVED
 FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-12
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSUQUI		TITLE PROFILE OF EXIST. GROUND & INVERTS OF UNDERSEEPAGE DRAINAGE TRENCH.
DESIGN	SCALE AS SHOWN	
DRAWN	DATE AUG 1971	
CHECKED	APPROVED	
DRAWING NO. 4804-1-12		REV. 1



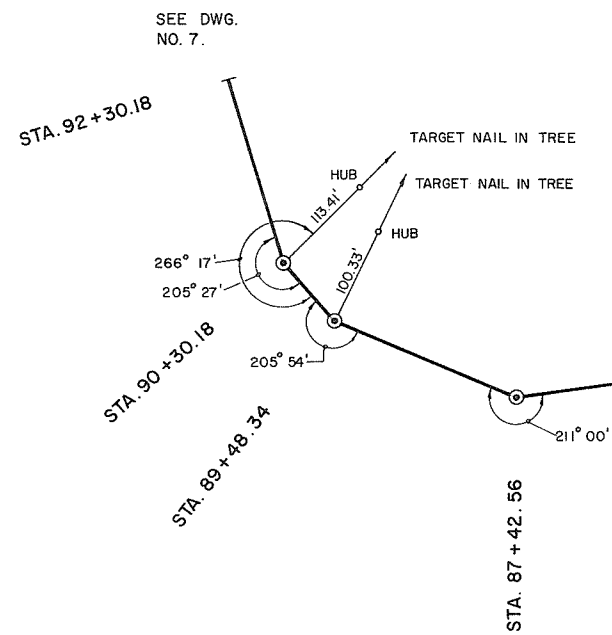
NO.	DATE	BY	REVISIONS	ENG.
1	23.1.74	V.W.	AS CONSTRUCTED	



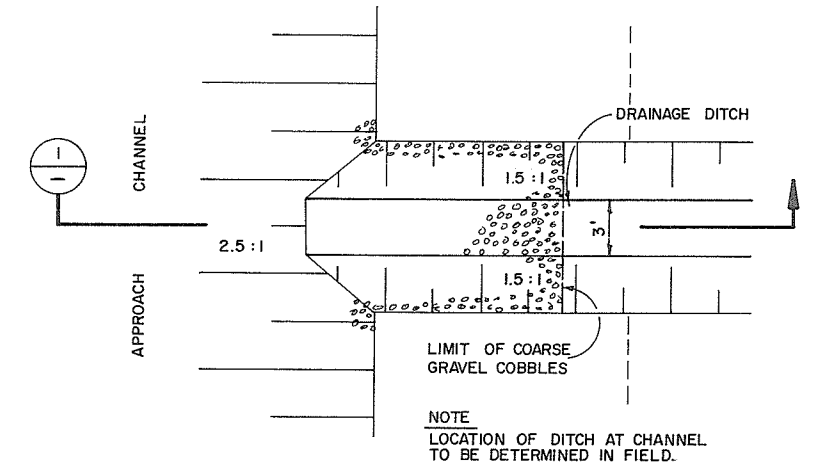
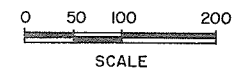
DATE Aug 12, 1971
 APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-20
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Vancouver, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1965 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN <u>W.S.</u> SCALE AS SHOWN
TITLE SURVEY CONTROL LINE LINE A STA. 0+00 TO STA. 92+30.18		DRAWN <u>W.S.</u> DATE AUG 1971
CHECKED <u>W.S.</u>		APPROVED
DRAWING NO. 4804 - 1 - 20		REV. 1

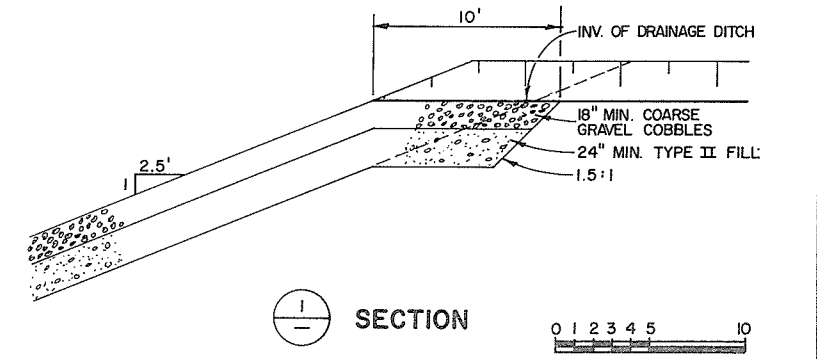
← LIMIT OF CONTRACT NO. 3 | CONTRACT NO. 1 (BY OTHERS) →



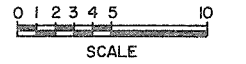
TRAVERSE LINE A



PLAN

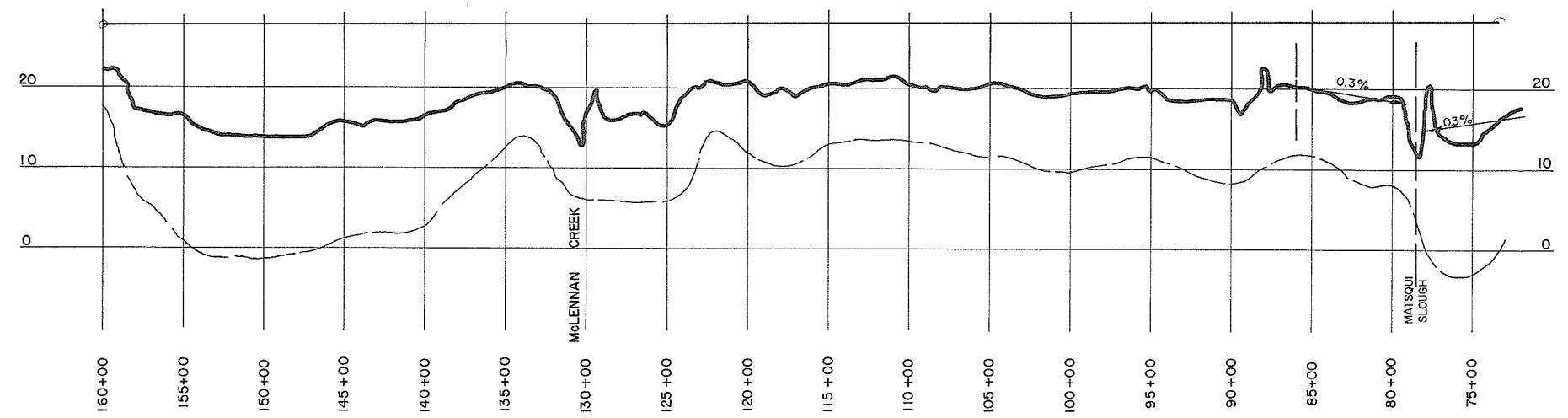
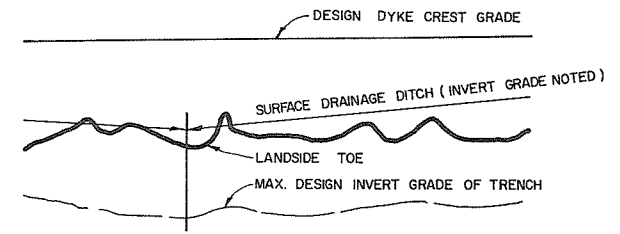


SECTION

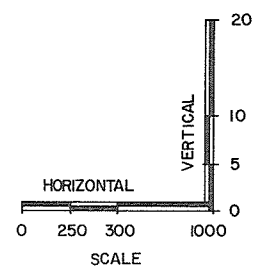


SURFACE DRAINAGE DITCH AT CHANNEL

LEGEND

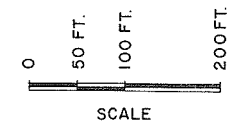
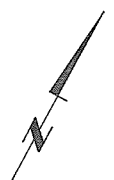
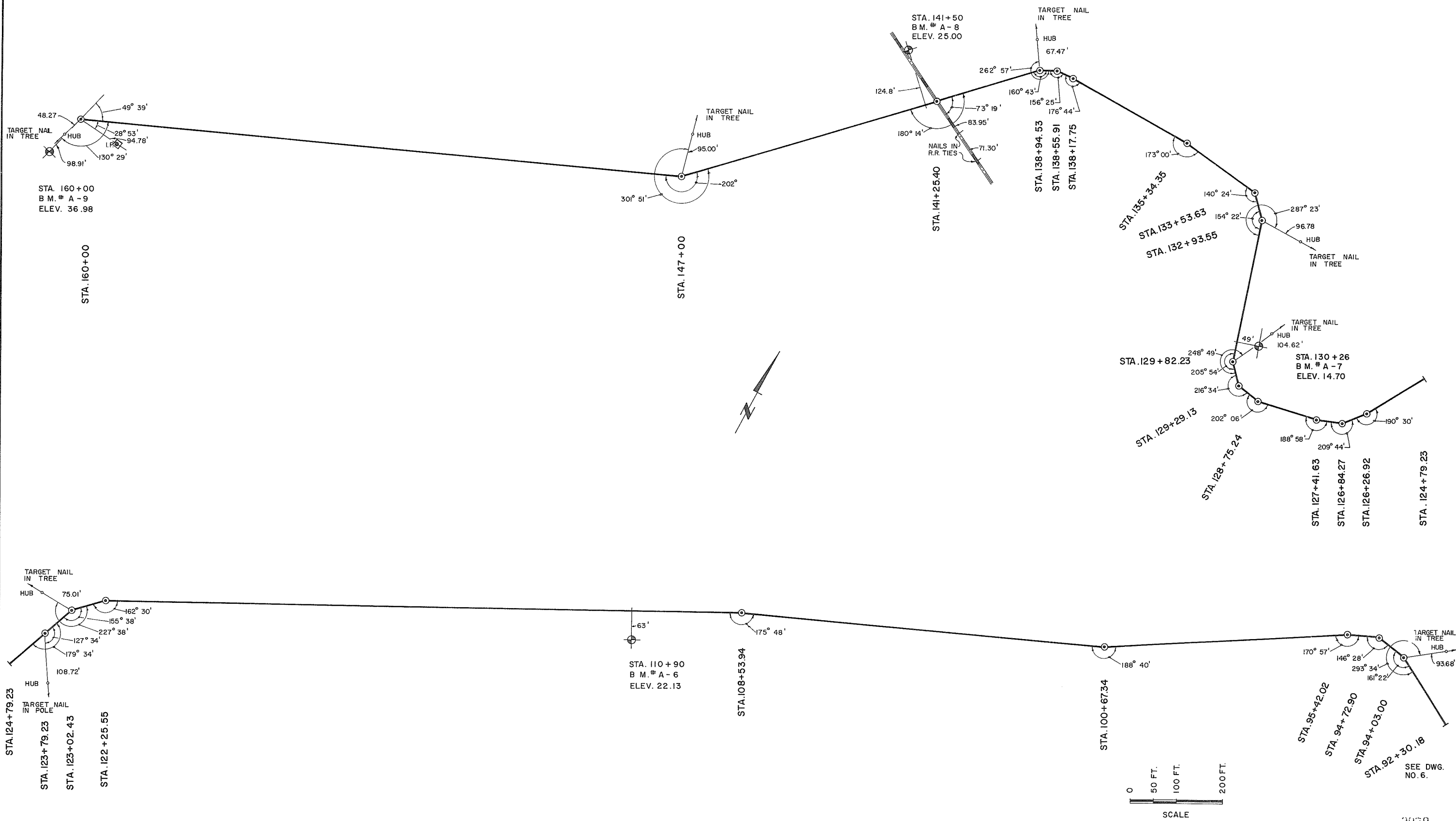


UNDERSEEPAGE TRENCH DRAIN - NOT CONSTRUCTED



0078

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-6	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1958 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI				DESIGN SCALE AS SHOWN DRAWN DATE FEB 1972 CHECKED APPROVED	
DATE 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA				TITLE SURVEY CONTROL LINE A - STA. 74+98.04 TO STA. 92+30.18 UNDERSEEPAGE TRENCH DRAIN PROFILE DRAWING NO. 4804-3-6 REV.	
NO.	DATE	BY	REVISIONS	ENG.	
1	10.9.73	V.W.	AS CONSTRUCTED		



SEE DWG. NO. 6.

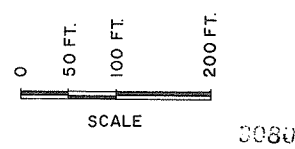
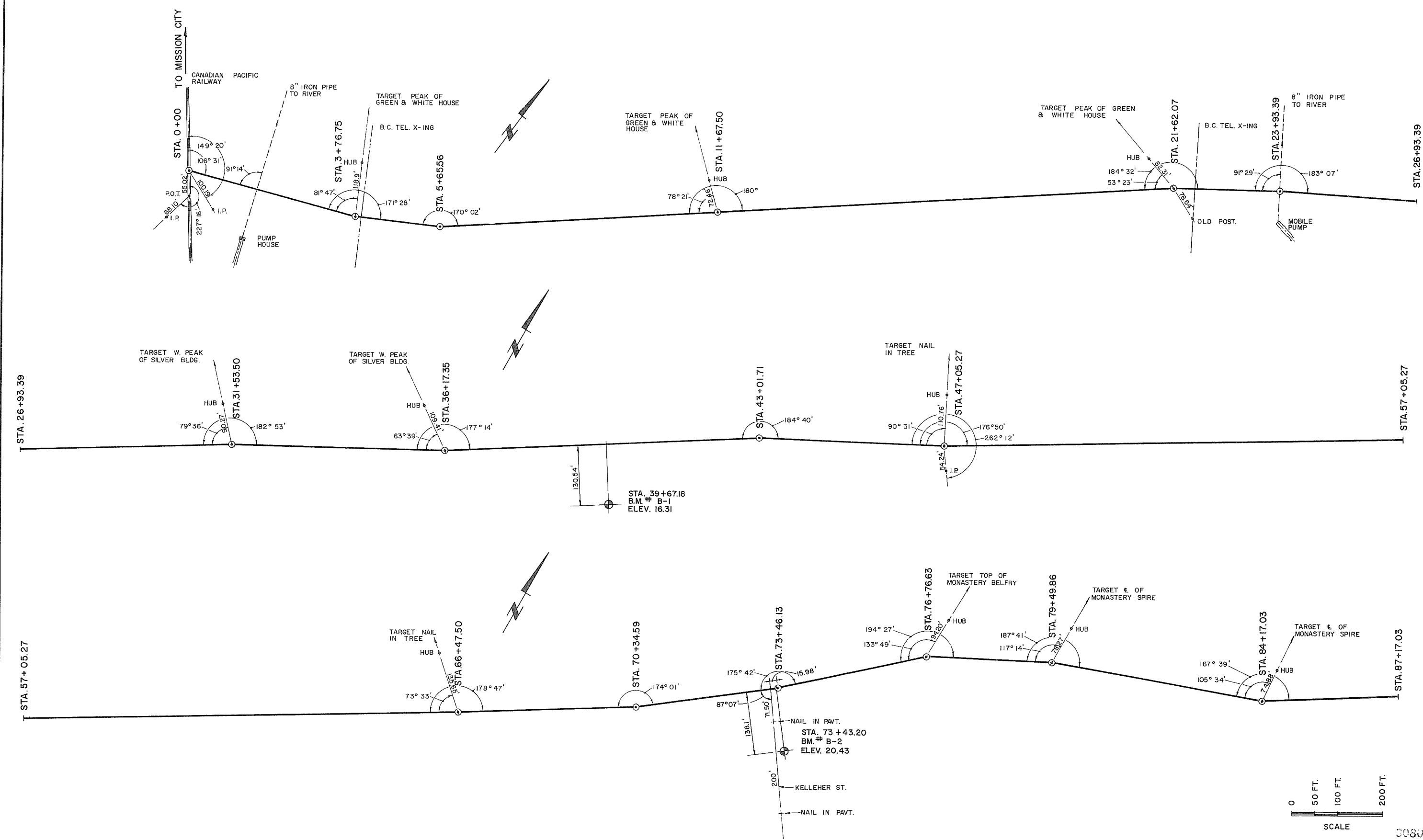
3079

NO.	DATE	BY	REVISIONS	ENG.
1	10.9.73	V.W.	AS CONSTRUCTED	

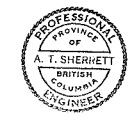
DATE 11.6.1972
 APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 DATE 19 May 1972
 APPROVED
 FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4 CONTRACT NO. 3
 THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA
 DEPT. OF LANDS, FORESTS AND WATER RESOURCES
 WATER RESOURCES SERVICE
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 4 DISTRICT OF MATSQUI
 TITLE
 SURVEY CONTROL LINE
 LINE A
 STA. 92+30.18 TO STA. 160+00

A.E.S.L. DRAWING NO. 4064-05-7
 AESL ASSOCIATED ENGINEERING SERVICES LTD.
 Consulting Engineers VANCOUVER, B.C.
 DESIGN A.M. SCALE AS SHOWN
 DRAWN R.L.B. DATE JUNE 1971
 CHECKED A.M. APPROVED A.M.
 DRAWING NO. 4804 - 3 - 7 REV.

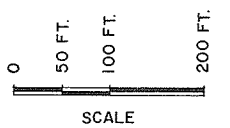
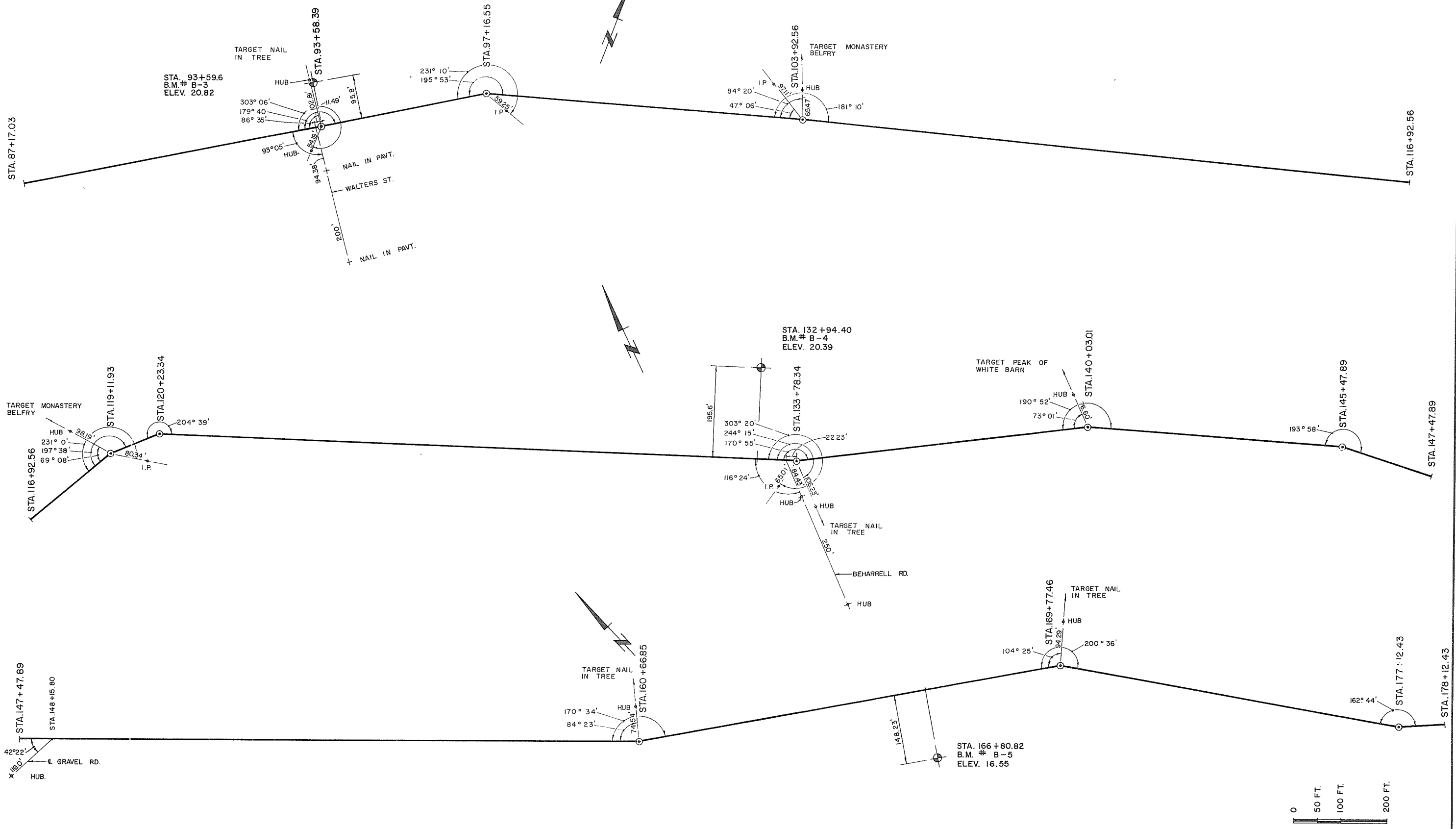


NO.	DATE	BY	REVISIONS	ENG.
1	23.1.74	V.W.	AS CONSTRUCTED	



DATE: 12.19.71
 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 1	A.E.S.L. DRAWING NO. 4064-02-22
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN: [Signature] SCALE: AS SHOWN
TITLE: SURVEY CONTROL LINE LINE B STA. 0+00 TO STA. 87+17.03		DRAWN: [Signature] DATE: AUG. 1971
DRAWING NO. 4804-1-22		CHECKED: [Signature] APPROVED:
REV. 1		

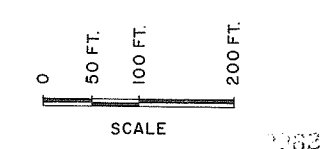
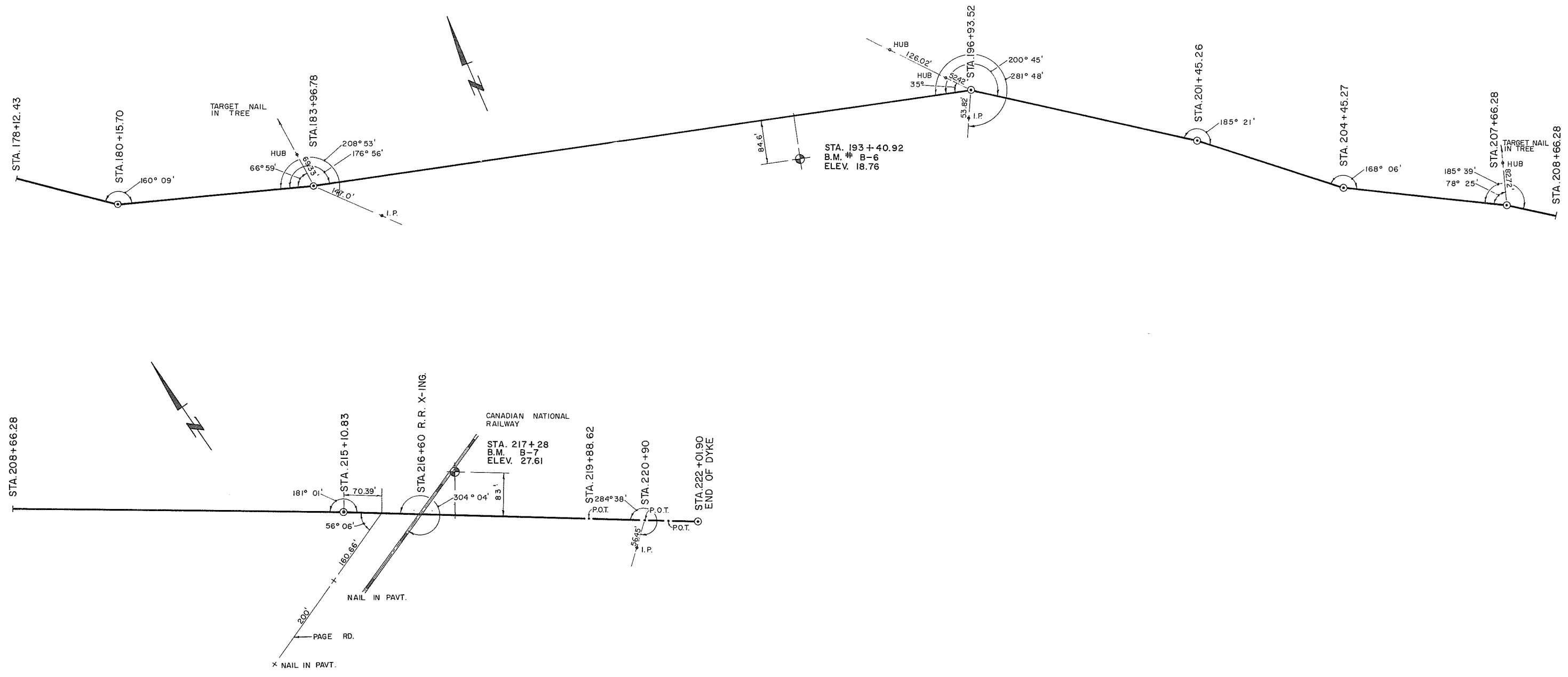


NO.	DATE	BY	REVISIONS	ENG.
1	23.1.74	V.W.	AS CONSTRUCTED	

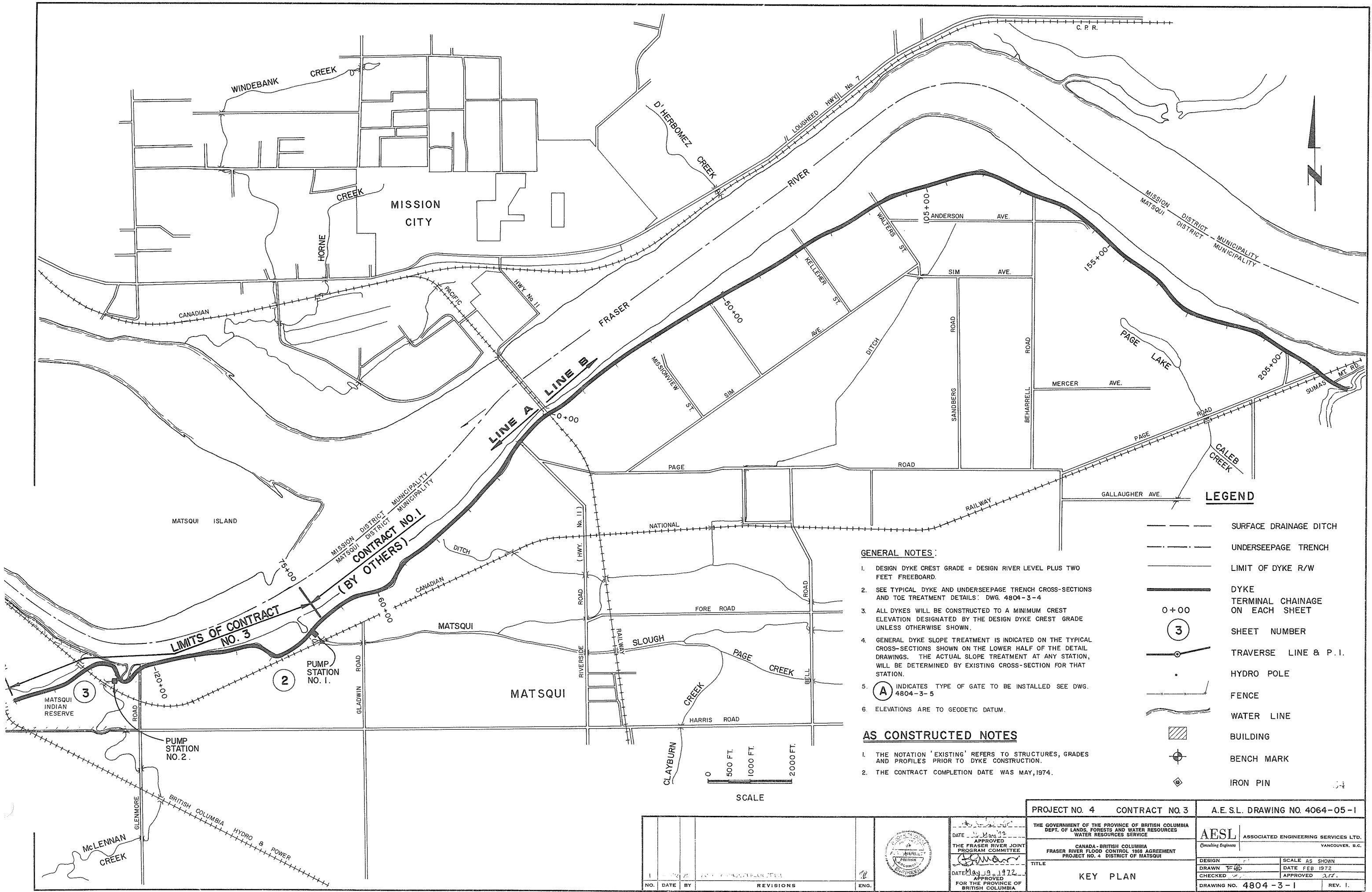


DATE Aug 12 1971
 APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 1	A. E.S.L. DRAWING NO. 4064-02-23
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN <u>[Signature]</u> SCALE AS SHOWN
TITLE SURVEY CONTROL LINE LINE B STA. 87+17.03 TO STA. 178+12.43		DATE AUG 1971
DRAWING NO. 4804 - 1 - 23		APPROVED <u>[Signature]</u>
		REV. 1



PROJECT NO. 4 CONTRACT NO. 1		A.E.S.L. DRAWING NO. 4064-02-24	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Consulting Engineers</small> VANCOUVER, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1969 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN <input checked="" type="checkbox"/> SCALE AS SHOWN DRAWN <input checked="" type="checkbox"/> DATE AUG. 1971 CHECKED <input checked="" type="checkbox"/> APPROVED DRAWING NO. 4804 - 1 - 24 REV. 1	
DATE 19 Aug 71 APPROVED THE FRASER RIVER JOINT PROGRAM COMMITTEE DATE Aug 12, 1971 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		TITLE SURVEY CONTROL LINE LINE B STA. 178+12.43 TO STA. 222+01.90	
NO.	DATE	BY	REVISIONS
1	23.1.74	V.W.	AS CONSTRUCTED



LEGEND

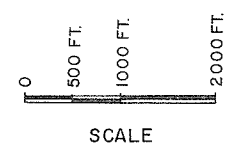
- SURFACE DRAINAGE DITCH
- - - UNDERSEEPAGE TRENCH
- LIMIT OF DYKE R/W
- DYKE
- 0+00 TERMINAL CHAINAGE ON EACH SHEET
- ③ SHEET NUMBER
- TRAVERSE LINE & P.I.
- HYDRO POLE
- FENCE
- WATER LINE
- ▨ BUILDING
- ⊕ BENCH MARK
- ◇ IRON PIN

GENERAL NOTES:

1. DESIGN DYKE CREST GRADE = DESIGN RIVER LEVEL PLUS TWO FEET FREEBOARD.
2. SEE TYPICAL DYKE AND UNDERSEEPAGE TRENCH CROSS-SECTIONS AND TOE TREATMENT DETAILS: DWG. 4804-3-4
3. ALL DYKES WILL BE CONSTRUCTED TO A MINIMUM CREST ELEVATION DESIGNATED BY THE DESIGN DYKE CREST GRADE UNLESS OTHERWISE SHOWN.
4. GENERAL DYKE SLOPE TREATMENT IS INDICATED ON THE TYPICAL CROSS-SECTIONS SHOWN ON THE LOWER HALF OF THE DETAIL DRAWINGS. THE ACTUAL SLOPE TREATMENT AT ANY STATION, WILL BE DETERMINED BY EXISTING CROSS-SECTION FOR THAT STATION.
5. (A) INDICATES TYPE OF GATE TO BE INSTALLED SEE DWG. 4804-3-5
6. ELEVATIONS ARE TO GEODETIC DATUM.

AS CONSTRUCTED NOTES

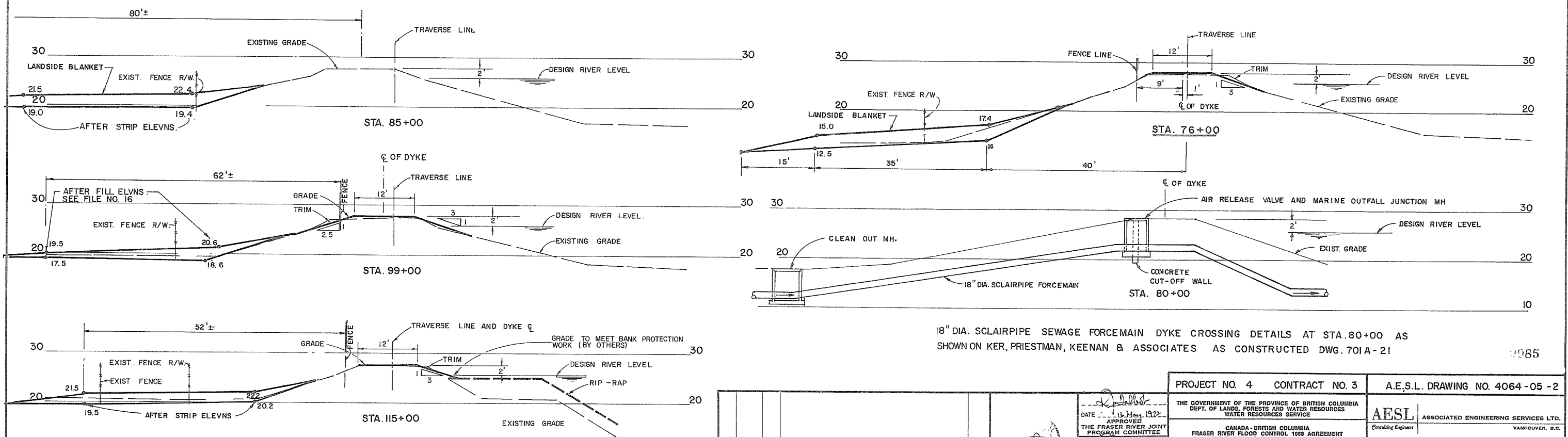
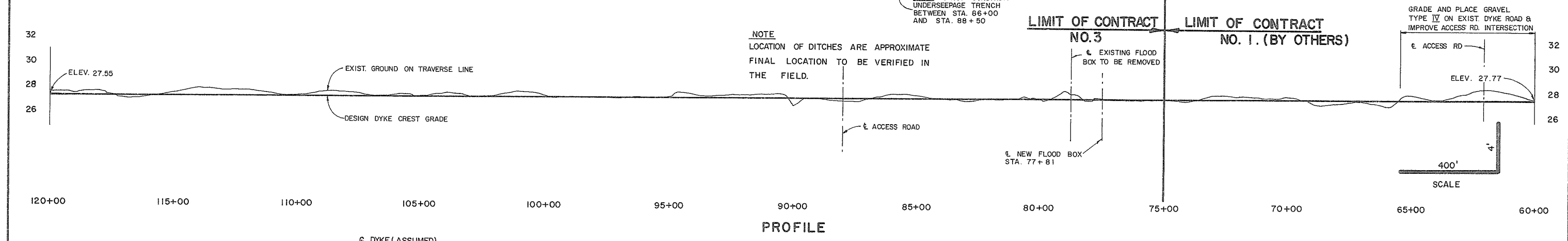
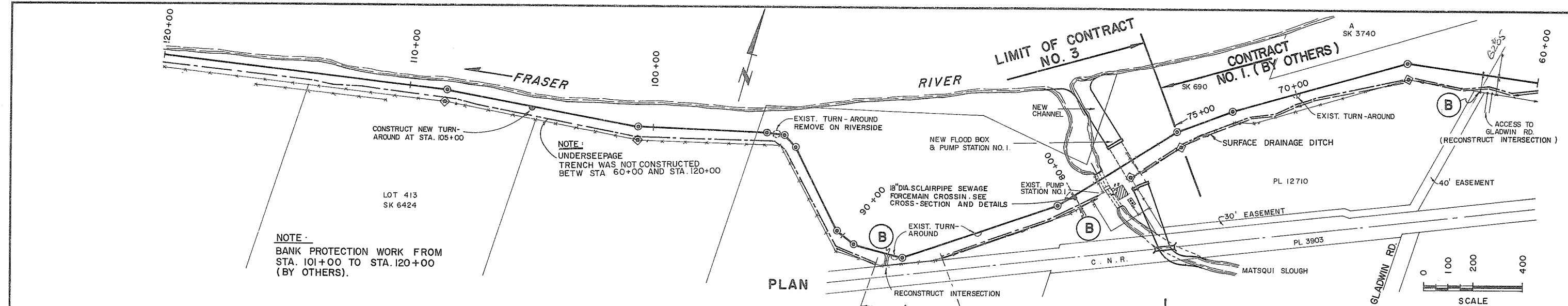
1. THE NOTATION 'EXISTING' REFERS TO STRUCTURES, GRADES AND PROFILES PRIOR TO DYKE CONSTRUCTION.
2. THE CONTRACT COMPLETION DATE WAS MAY, 1974.



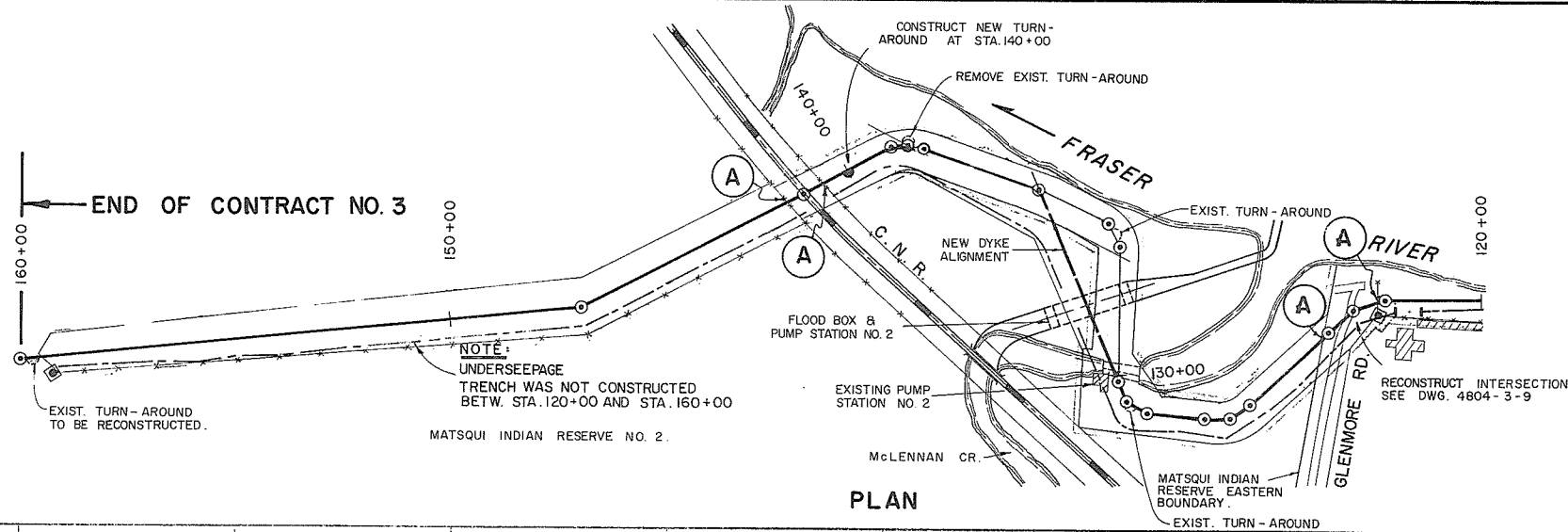
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-1
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1969 AGREEMENT PROJECT NO. 4, DISTRICT OF MATSQUI		DESIGN DATE FEB 1972 SCALE AS SHOWN
TITLE KEY PLAN		DATE FEB 1972 APPROVED <i>ars</i>
DRAWING NO. 4804-3-1		REV. 1.

DATE APPROVED MAY 19 1972 FOR THE PROVINCE OF BRITISH COLUMBIA	DATE MAY 19 1972	APPROVED <i>[Signature]</i>	DATE MAY 19 1972
NO.	DATE	BY	REVISIONS

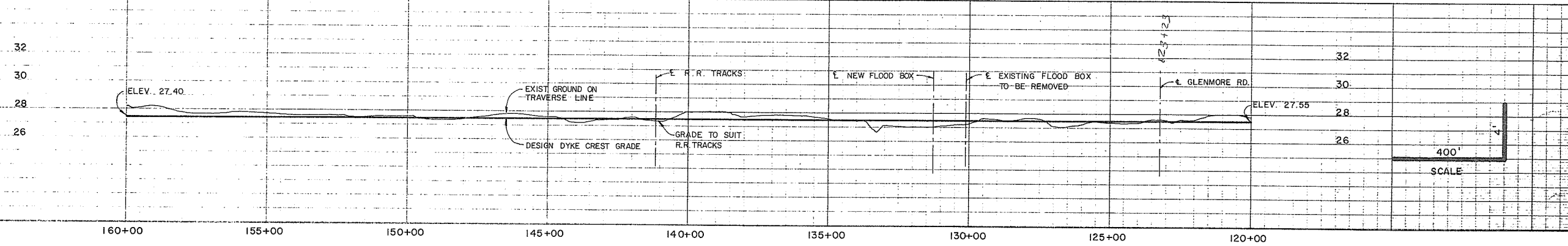




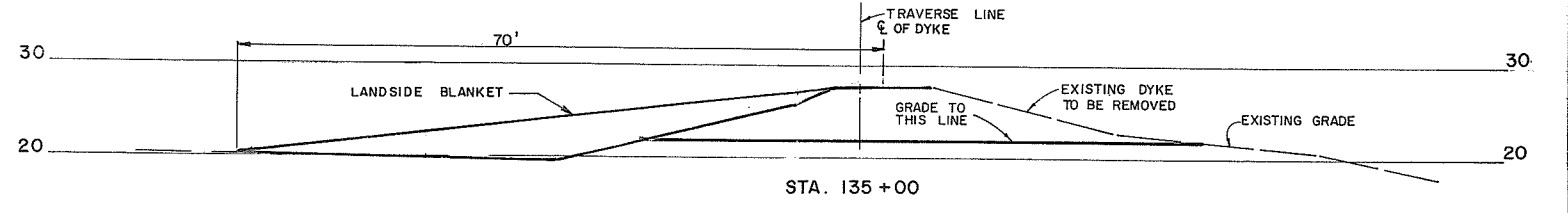
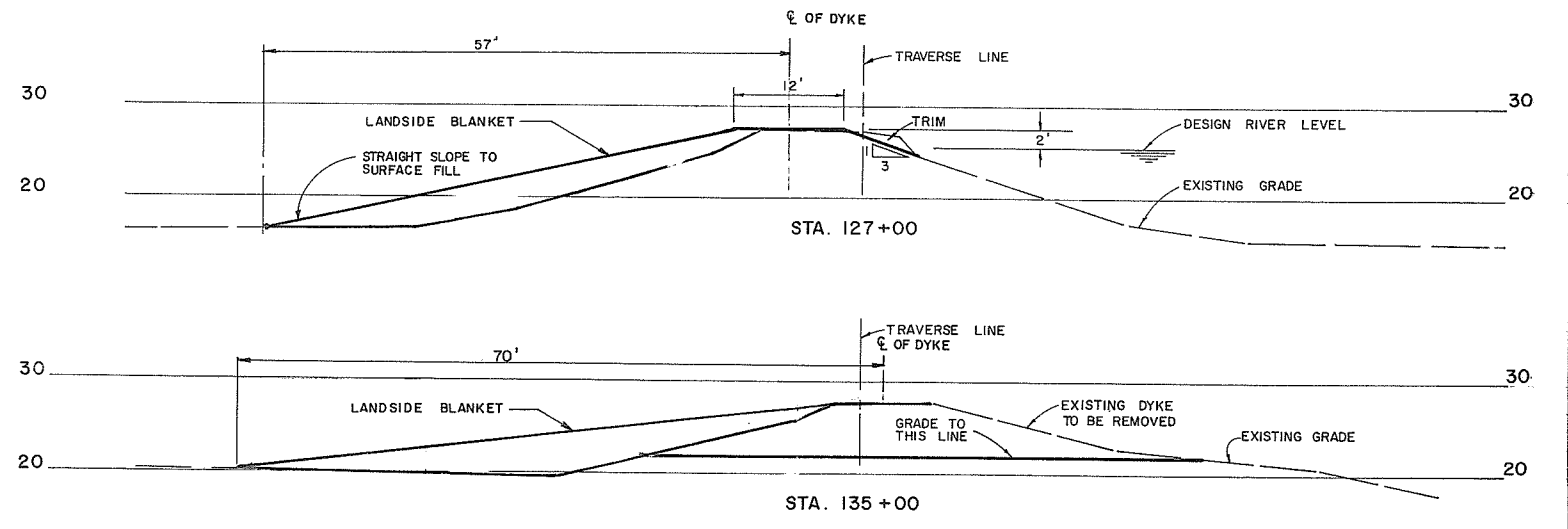
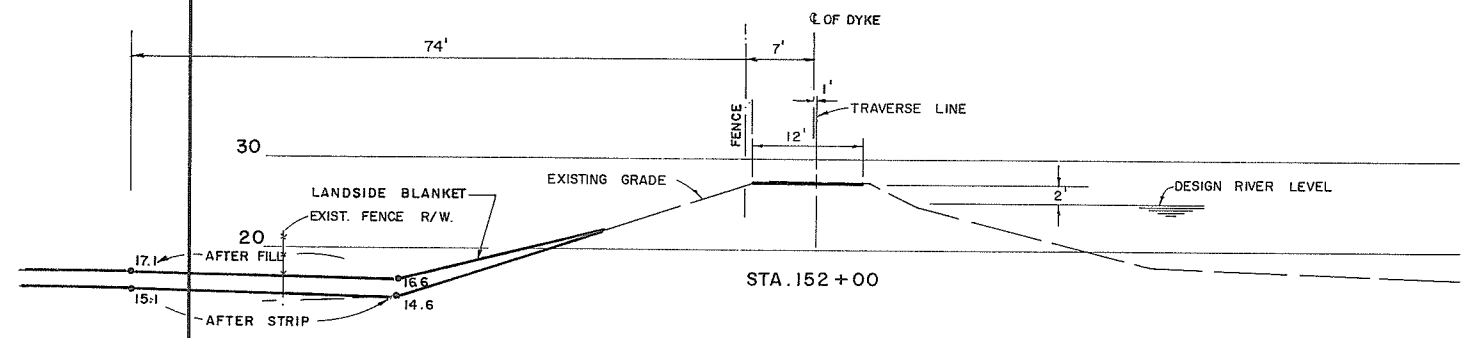
PROJECT NO. 4 CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-2	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.	
DATE 16 May 1972 APPROVED THE FRASER RIVER JOINT PROGRAM COMMITTEE		DESIGN SCALE AS SHOWN DRAWN DATE AUG. 1971 CHECKED APPROVED	
DATE 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		TITLE PLAN PROFILE & CROSS SECTIONS LINE A STA. 60+00 TO STA. 120+00	
NO.	DATE	BY	REVISIONS
1	8.3.75	V.W.	AS CONSTRUCTED
ENG.			



PLAN



PROFILE

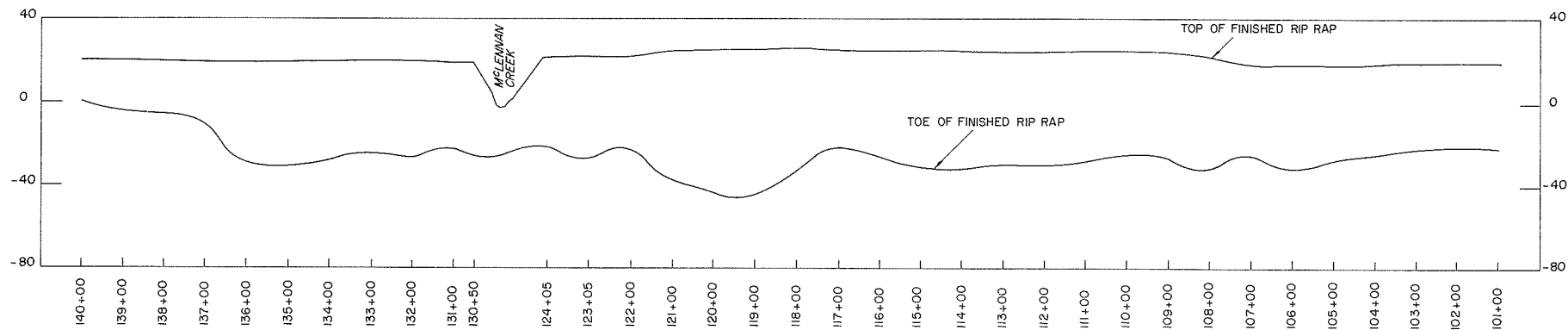


1086 SCALE

PROJECT NO. 4 CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-31	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
DATE 11 May 1972 APPROVED THE FRASER RIVER JOINT PROGRAM COMMITTEE		CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI	
DATE 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		TITLE PLAN PROFILE & CROSS SECTIONS LINE A STA. 120+00 TO STA. 160+00	
DESIGN [Signature]		SCALE AS SHOWN	
DRAWN [Signature]		DATE FEB. 1972	
CHECKED [Signature]		APPROVED [Signature]	
DRAWING NO. 4804-3-3		REV.	

SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN

BANK PROTECTION

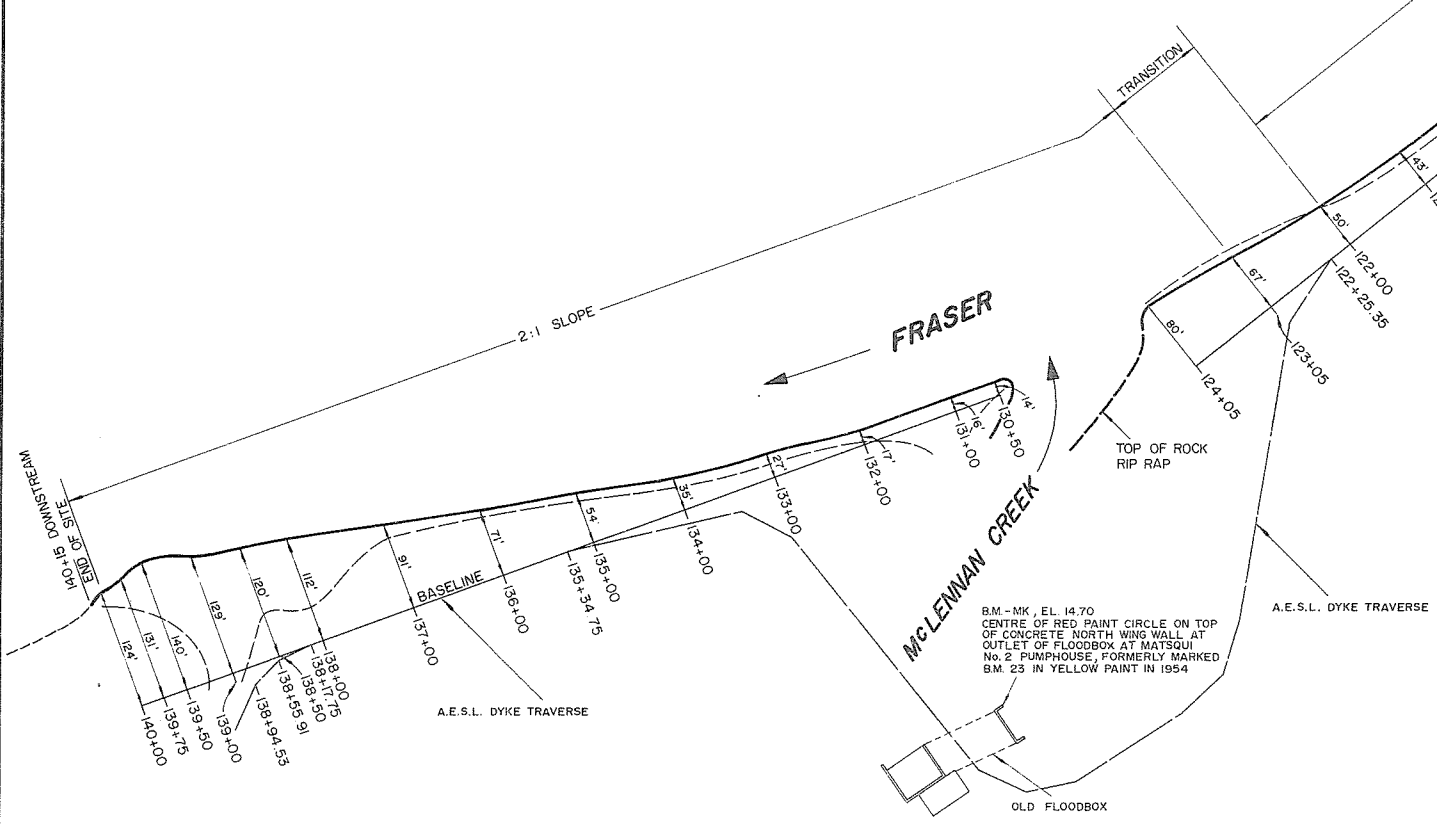
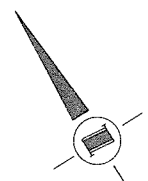


VERTICAL ALIGNMENT OF TOP & TOE OF RIP RAP

Scale: Horiz. 1" = 200'
Vert. 1" = 40'

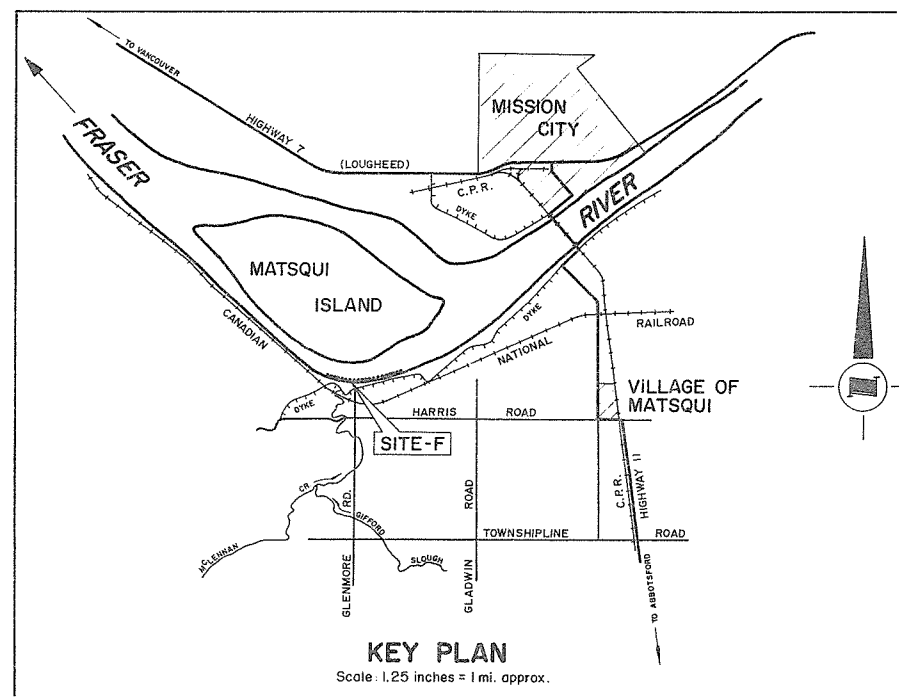
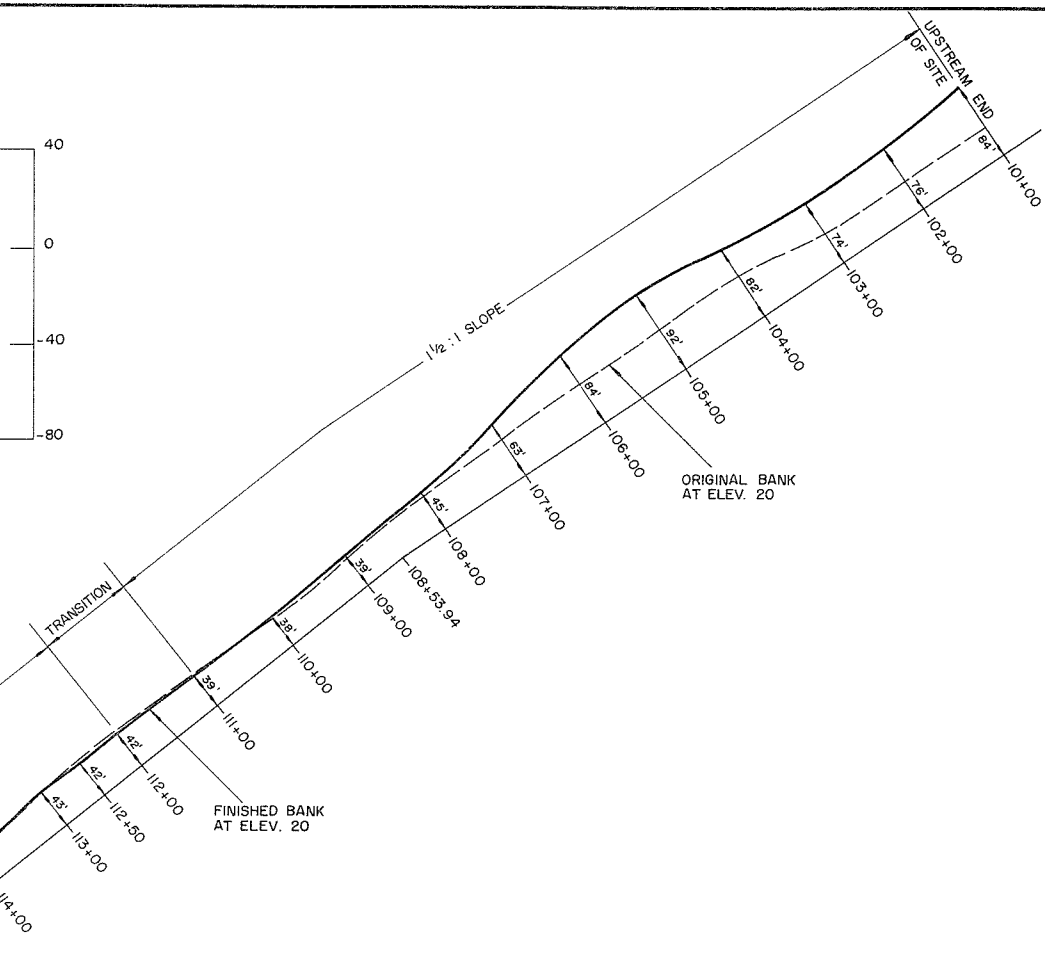
NOTES:

1. Dates of construction - Dec. 7, 1971 to May 18, 1972.
2. Elevations - W.R.S. B.M.-MK, Elev. 14.70 (G.S.C.)
3. Source of materials.
 - (a) Rock tailings - Pitt River Quarries Ltd.
 - (b) Rock rip rap - Pitt River Quarries Ltd.
4. Plans redrawn.
5. All sections at right angles to baseline unless otherwise shown.



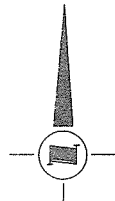
SITE PLAN

Scale: 1" = 100'



KEY PLAN

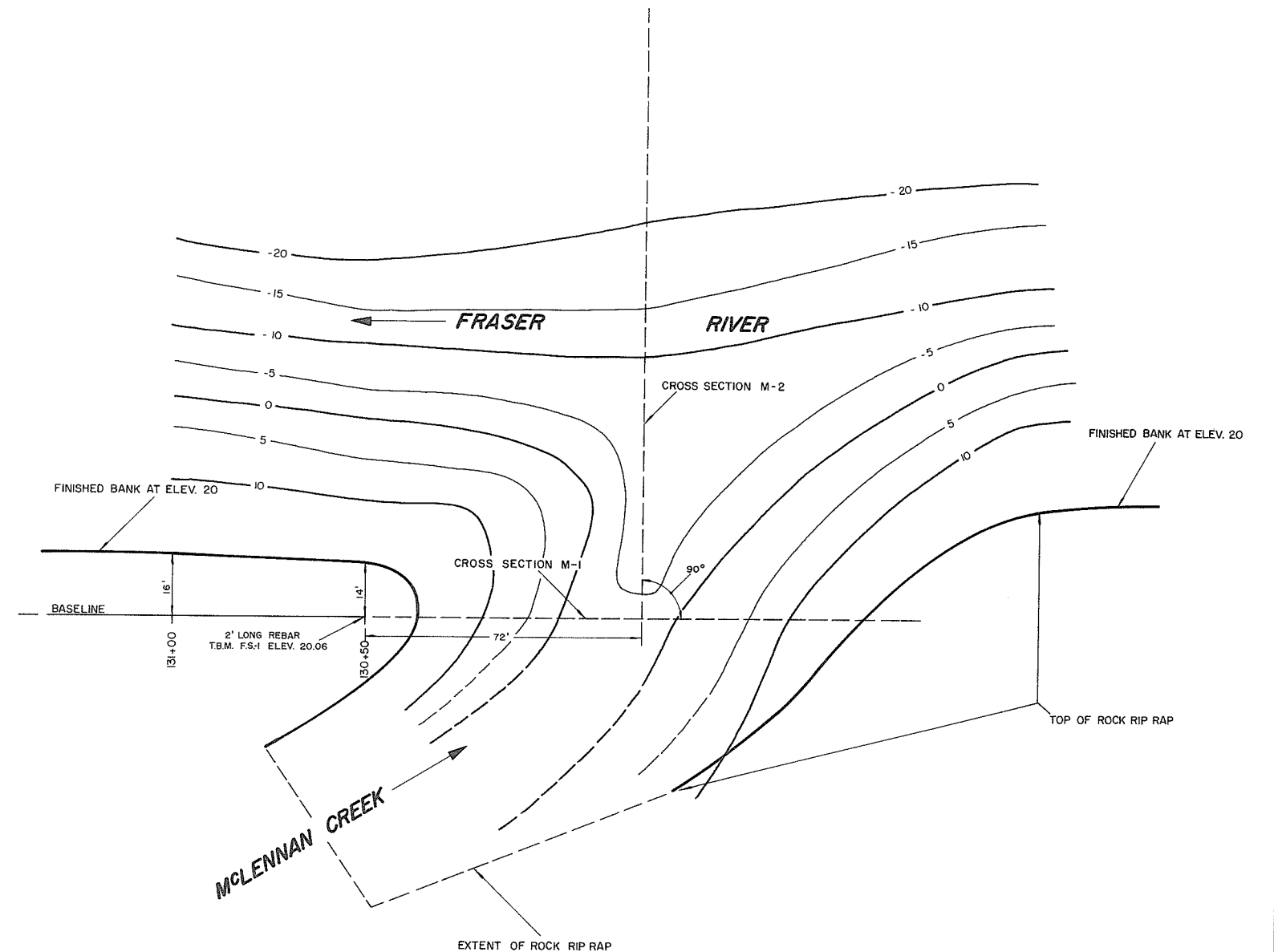
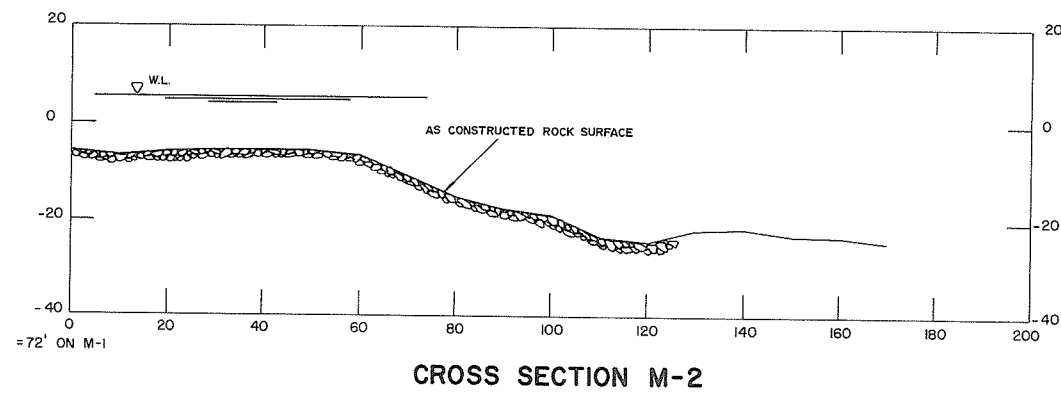
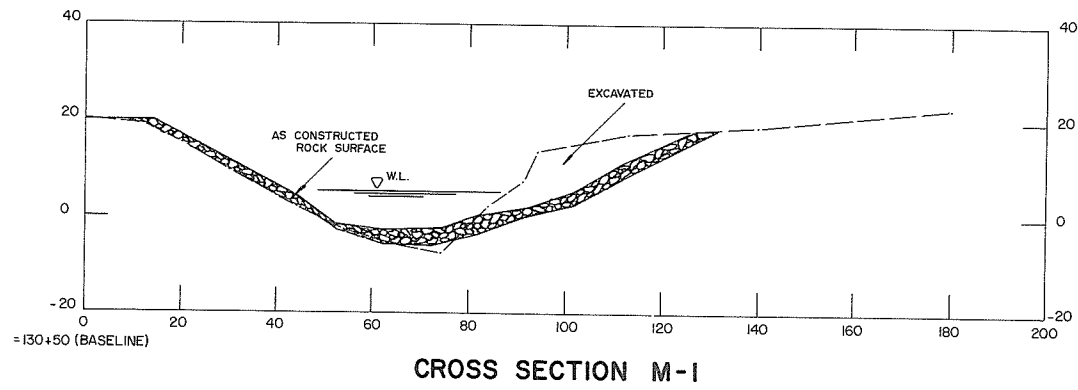
Scale: 1.25 inches = 1 mi. approx.



AS CONSTRUCTED

1087

REFERENCES			RECOMMENDED	SURVEYED	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH	FILE No. Q281550 - C22 - 2
DWG. No.	DESCRIPTION	DATE				
4804-2-1A	Bank protection - Plan & vertical alignment	Aug., 1971	<i>[Signature]</i> PROJECT MANAGER	DATE: <i>[Signature]</i> DESIGNED: B. Taylor	CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT No. 4 - DISTRICT OF MATSQUI CONTRACT No. 2 - BANK PROTECTION	DWG. No. 4804-2-1B
			DATE: <i>Sept 28/72</i>	DRAWN: D.B.P.		
			APPROVED: <i>[Signature]</i> DIRECTOR	TRACED:	PLAN AND VERTICAL ALIGNMENT - SITE "F"	SHEET 1 OF 7
			DATE: <i>Sept 28/72</i>	CHECKED: R.A.E.		
				DATE: OCT., 1972	APPROVED: _____	SCALE: AS SHOWN



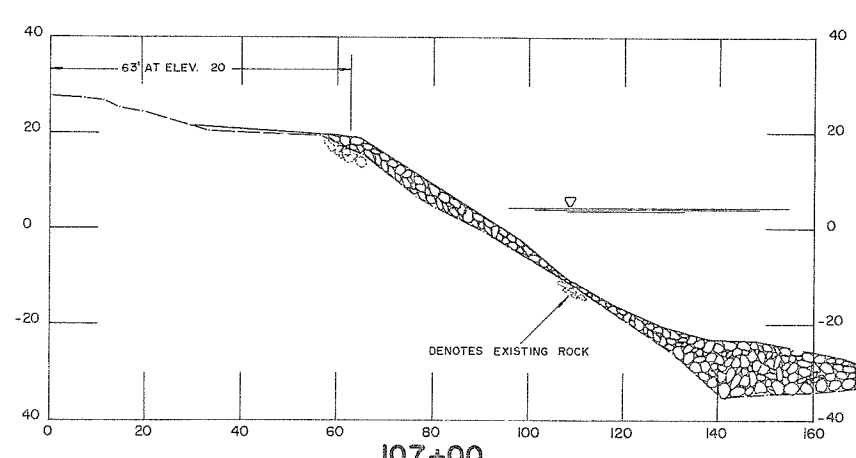
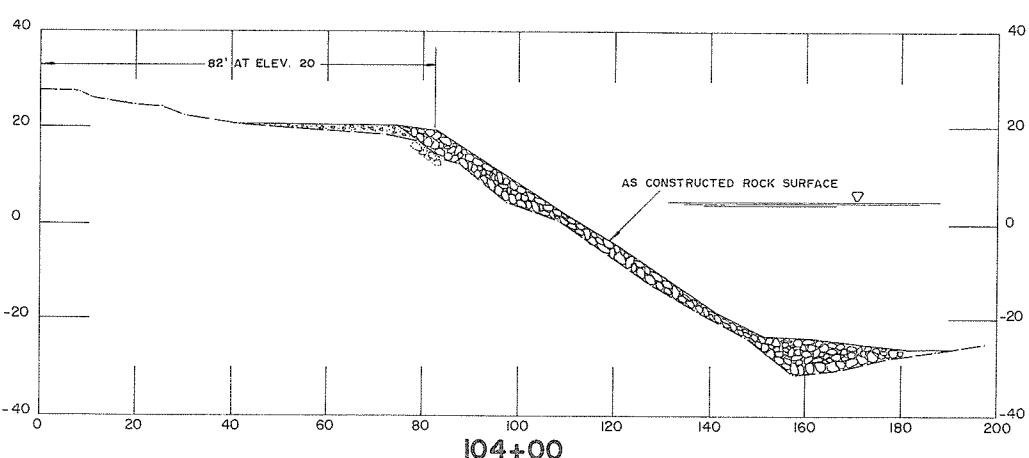
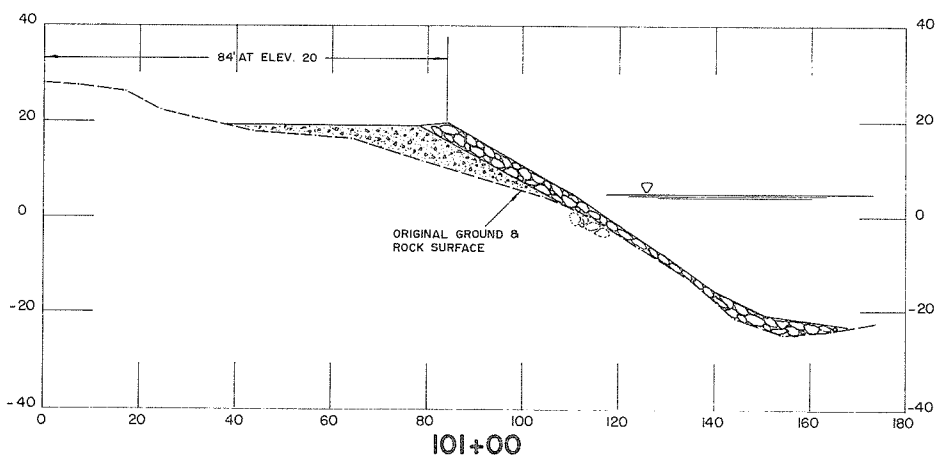
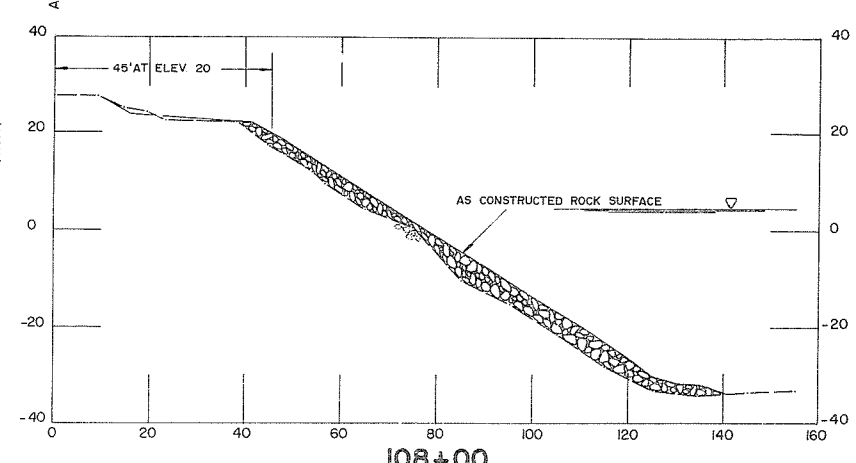
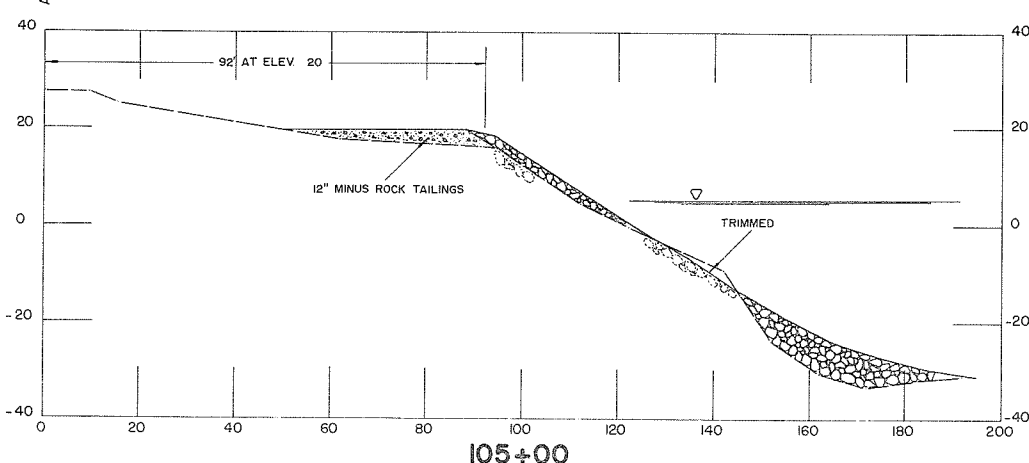
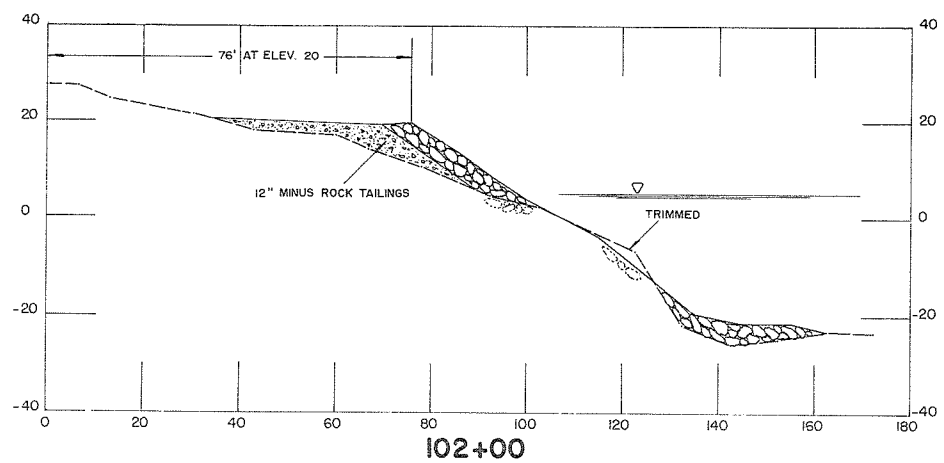
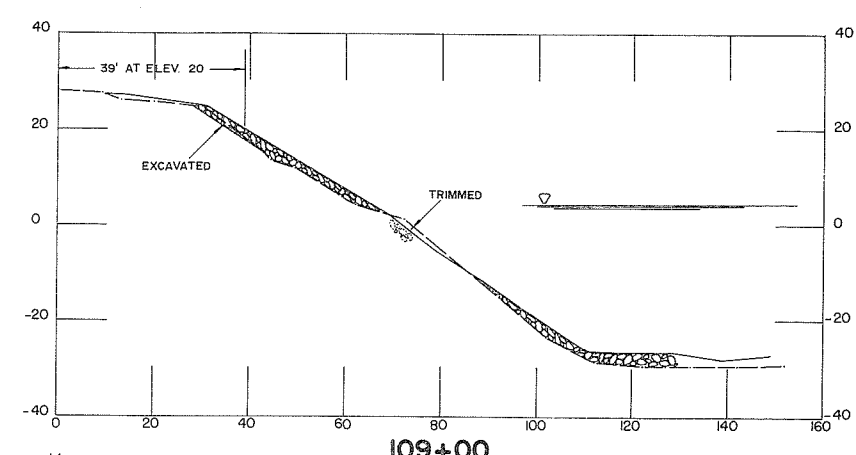
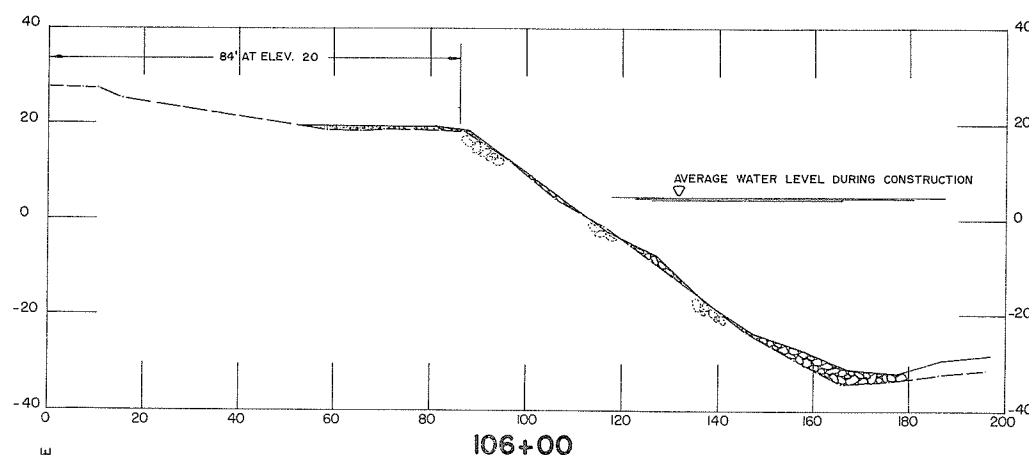
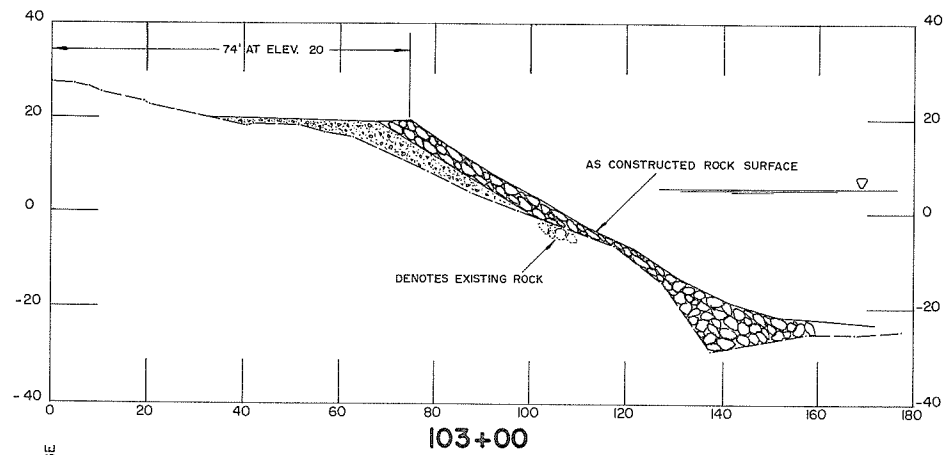
PLAN - FRASER RIVER & M^CLENNAN CREEK INTERSECTION

Scale: 1" = 20'

AS CONSTRUCTED

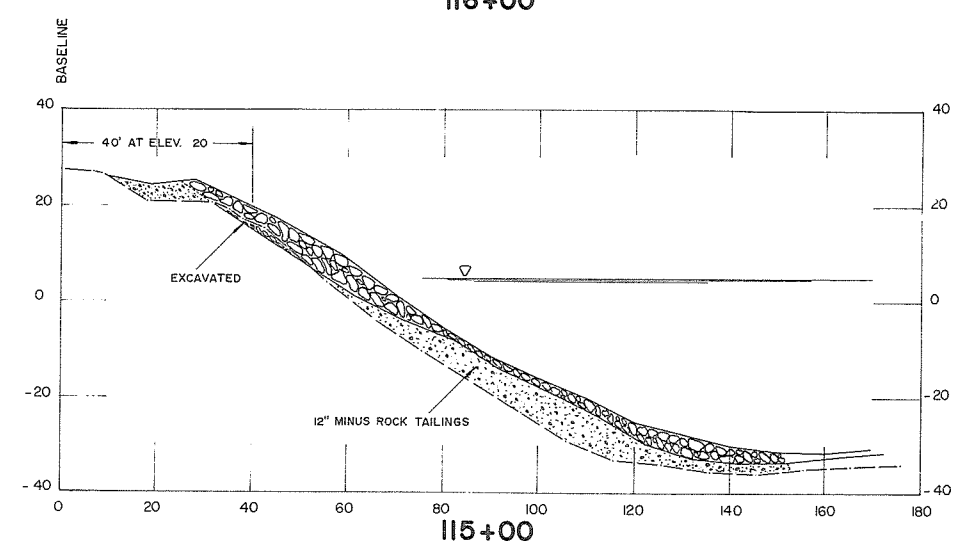
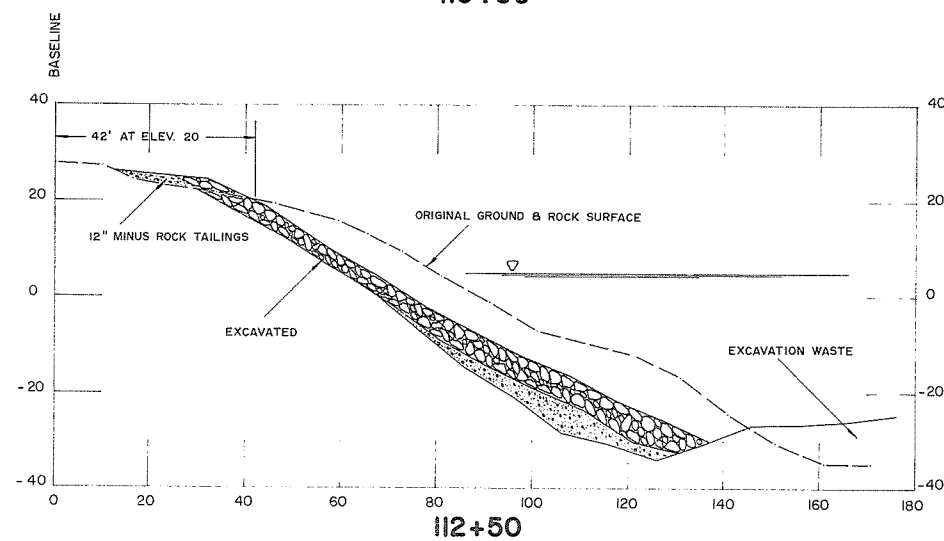
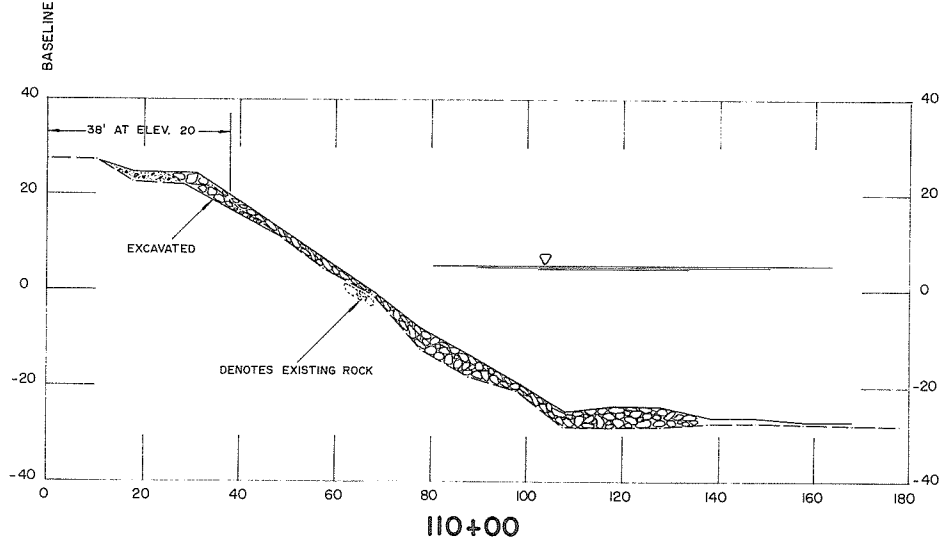
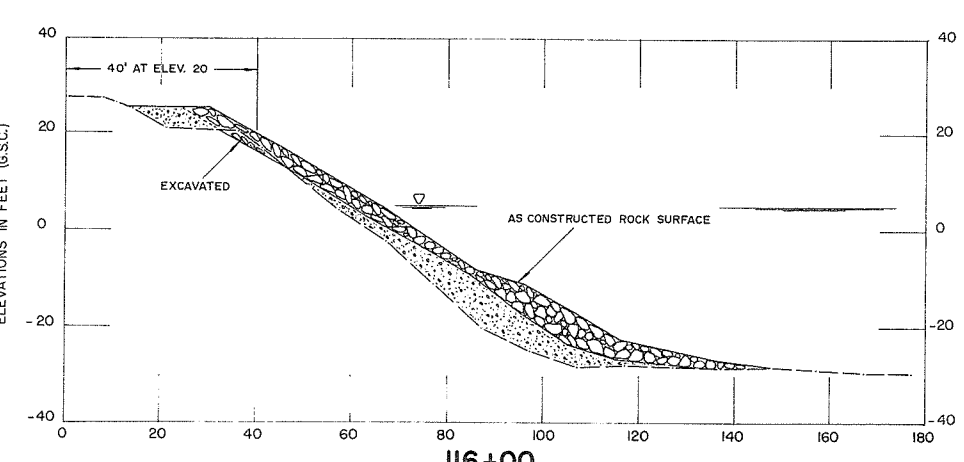
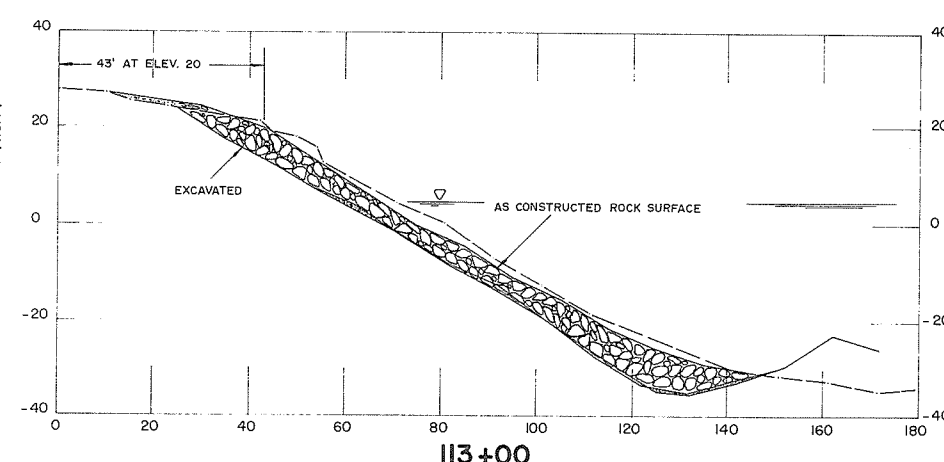
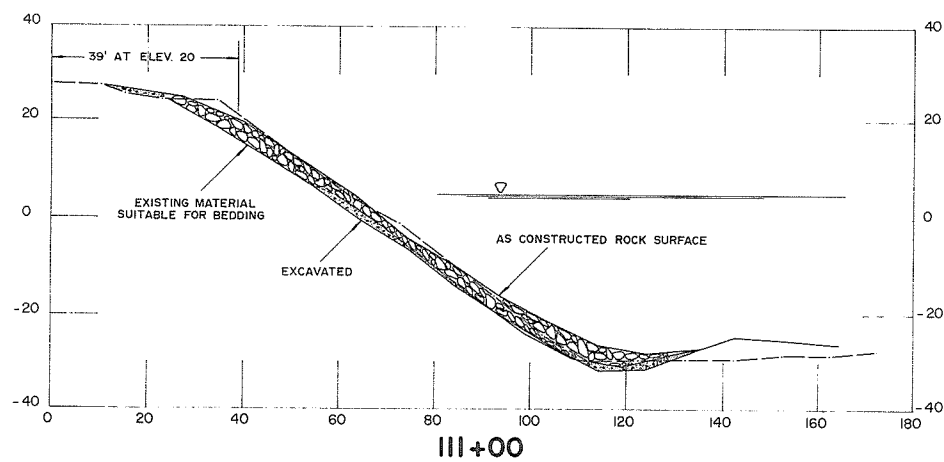
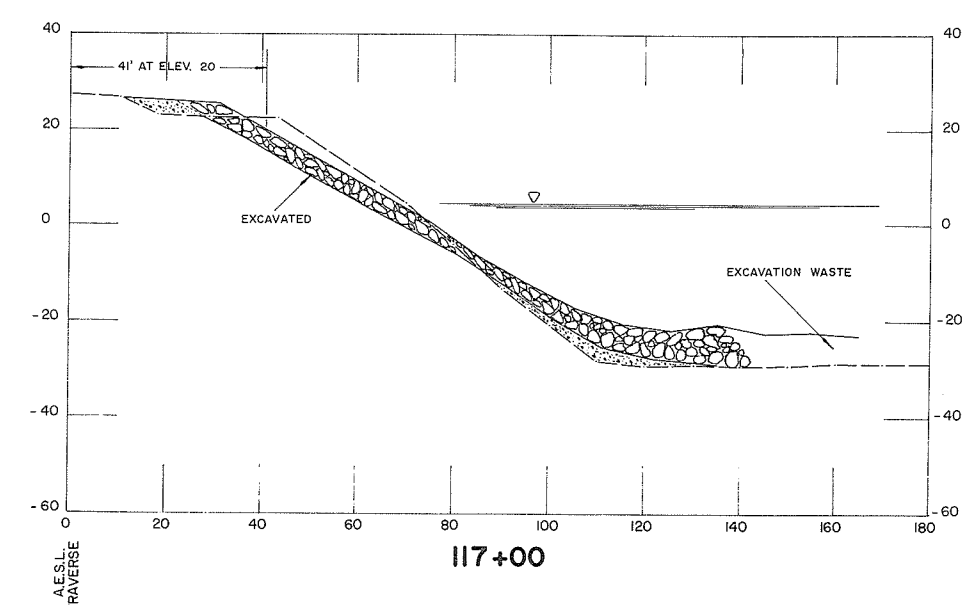
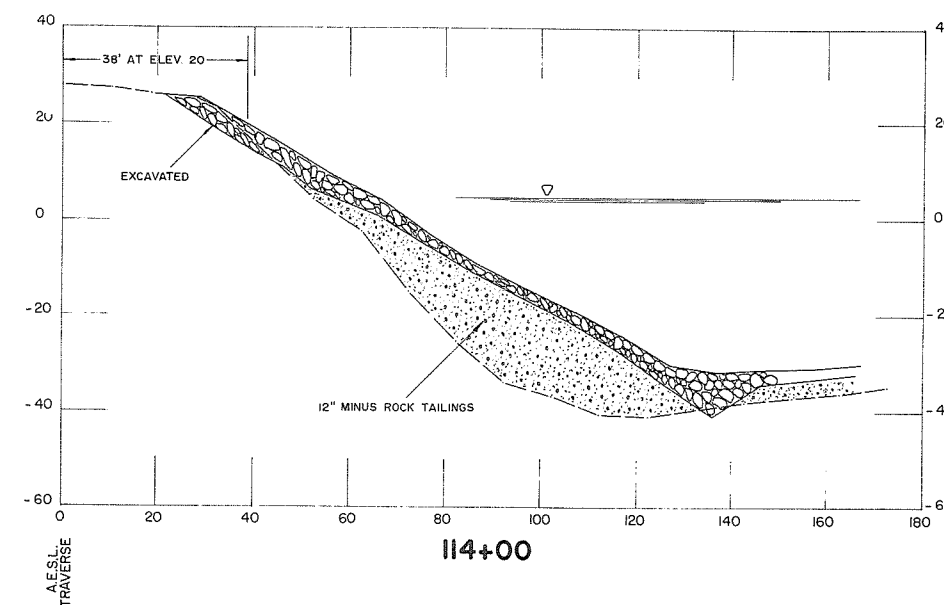
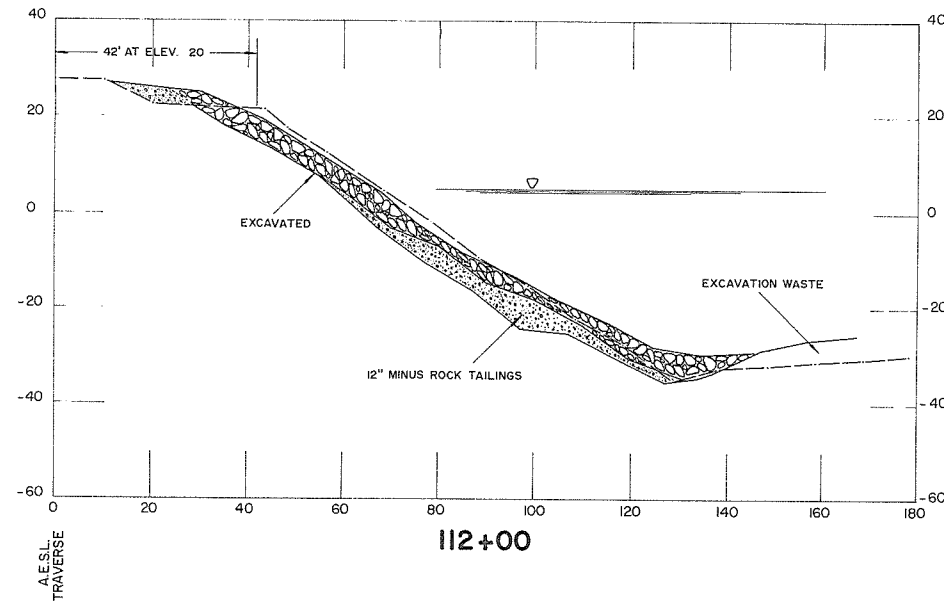
1088

REFERENCES			RECOMMENDED	SURVEYED	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH	FILE No. 02B1550 - C 22 - 2
DWG. No.	DESCRIPTION	DATE				
4804-2-2A	Bank protection - Typical cross sections & McLennan creek detail	Aug., 1971	<i>B. N. Cameron</i> PROJECT MANAGER DATE: <i>Sept. 25 1972</i>	DATE: _____ DESIGNED: <i>B. Taylor</i> DRAWN: <i>D.B.P.</i> TRACED: _____ CHECKED: <i>R.A.E.</i> DATE: <i>MAY, 1973</i>	CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT No. 4 - DISTRICT OF MATSQUI CONTRACT No. 2 - BANK PROTECTION CROSS SECTIONS AND M^CLENNAN CREEK DETAIL	DWG. No. 4804-2-2B
APPROVED <i>J.H. Sullivan</i> DIRECTOR DATE: <i>Apr 29 72</i>					APPROVED: _____ SCALE: AS SHOWN	SHEET 2 of 7



AS CONSTRUCTED

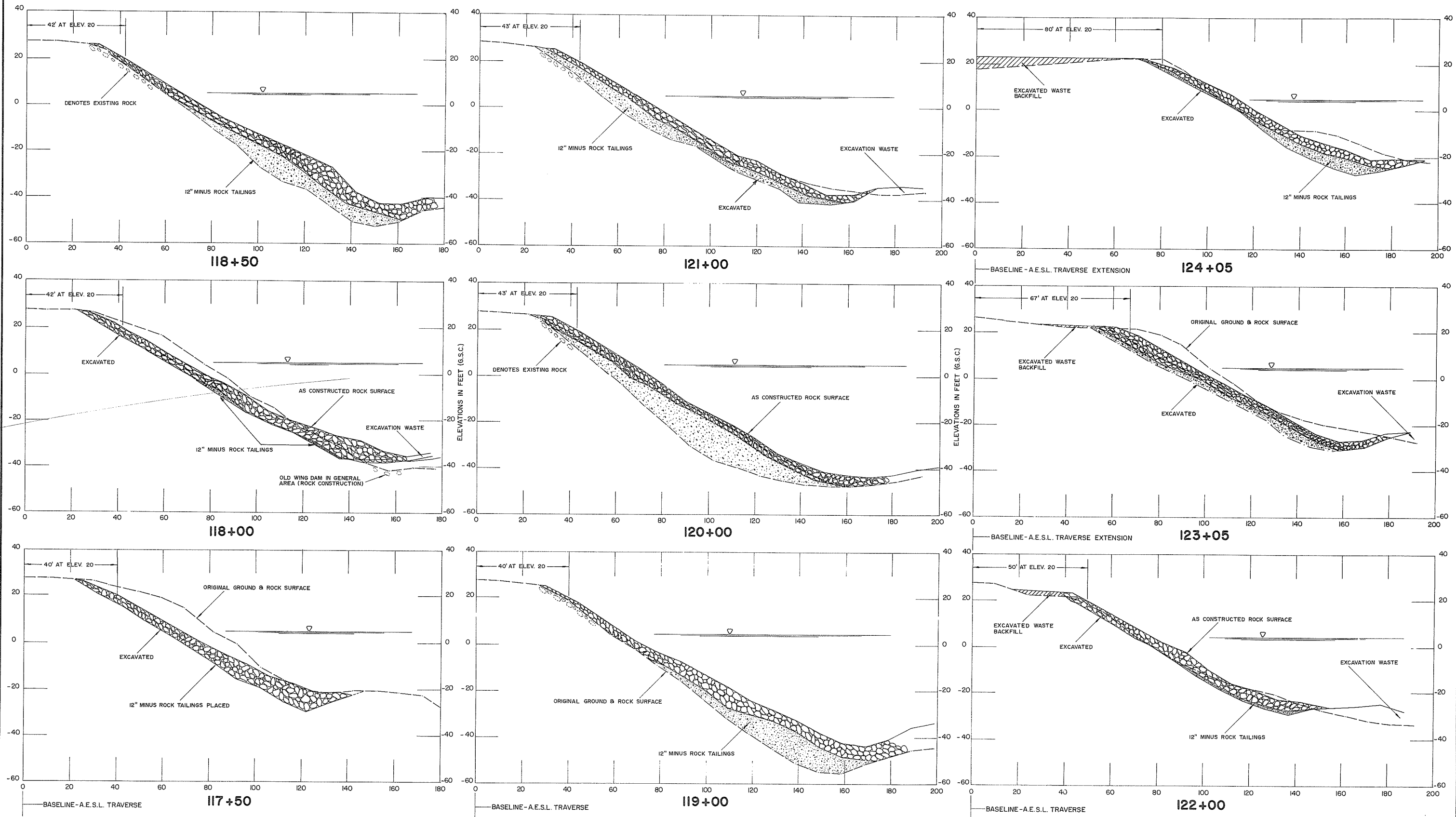
REFERENCES			RECOMMENDED	SURVEYED	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH	CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT No. 4 - DISTRICT OF MATSQUI CONTRACT No. 2 - BANK PROTECTION STA. 101+00 TO STA. 109+00 CROSS SECTIONS	FILE No.
DWG. No.	DESCRIPTION	DATE					0201550 - C 22 - 2
4804-2-3	Bank protection - Reconstruction & repair cross sections	Aug, 1971	<i>B. R. Cameron</i> PROJECT MANAGER DATE: <i>Sept. 25, 1972</i>	DESIGNED B. Taylor DRAWN D.B.P.	DWG. No. 4804-2-3A	SHEET 3 of 7	
			APPROVED <i>R.A.E.</i> DIRECTOR DATE: <i>Sept 28/72</i>	TRACED CHECKED R.A.E.			
			DATE: <i>Feb., 1973</i>	APPROVED SCALE: AS SHOWN			



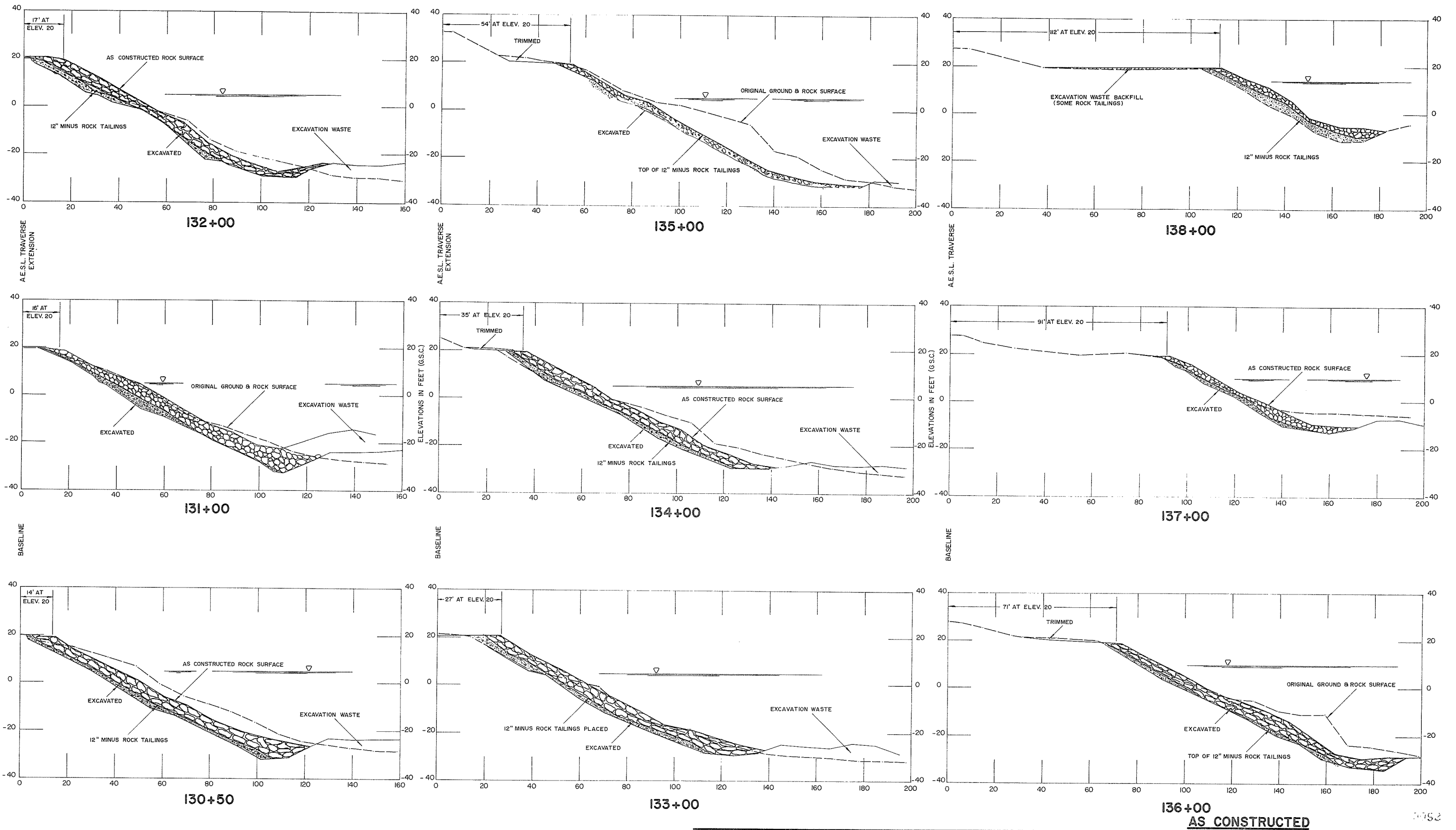
AS CONSTRUCTED

1190

REFERENCES			RECOMMENDED	SURVEYED	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH	FILE No. 0281550 - C 22 - 2
DWG. No.	DESCRIPTION	DATE				
4804-2-3	Bank protection - Reconstruction & repair cross sections.	Aug., 1971	<i>B. Taylor</i> PROJECT MANAGER DATE: <i>Sept. 25, 1971</i>	DESIGNED B. Taylor DRAWN D.B.P. TRACED CHECKED R.A.E. DATE Feb., 1973	CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT No. 4 - DISTRICT OF MATSQUI CONTRACT No. 2 - BANK PROTECTION STA. 110+00 TO STA. 117+00 CROSS SECTIONS	DWG. No. 4804-2-4
			APPROVED <i>R.A.E.</i> DATE: <i>Sept. 29, 73</i> for DIRECTOR	APPROVED: _____	SCALE: AS SHOWN	SHEET 4 of 7



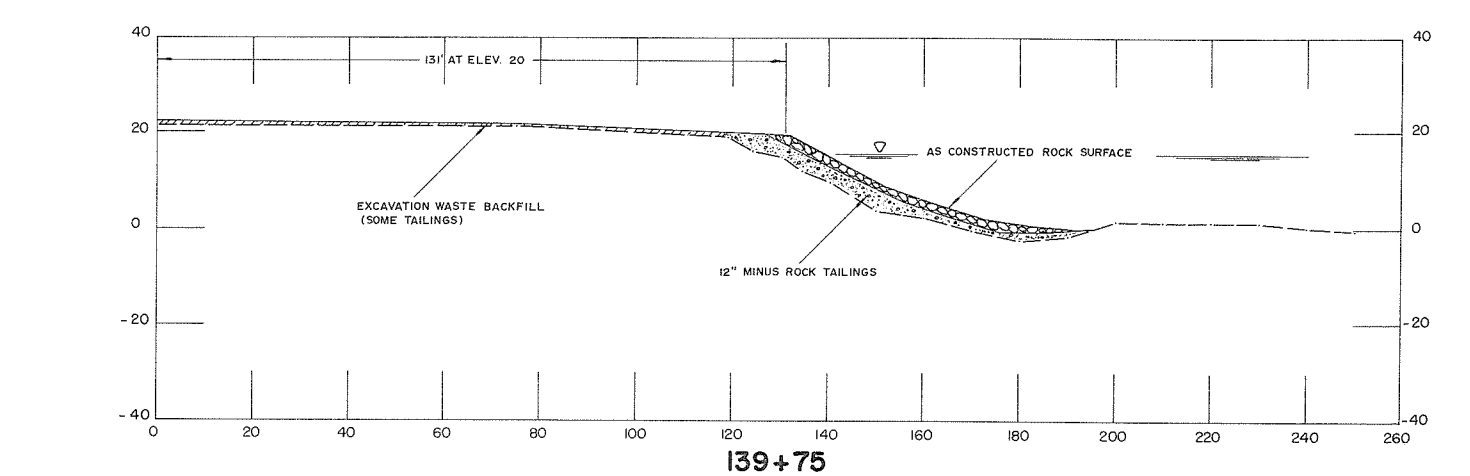
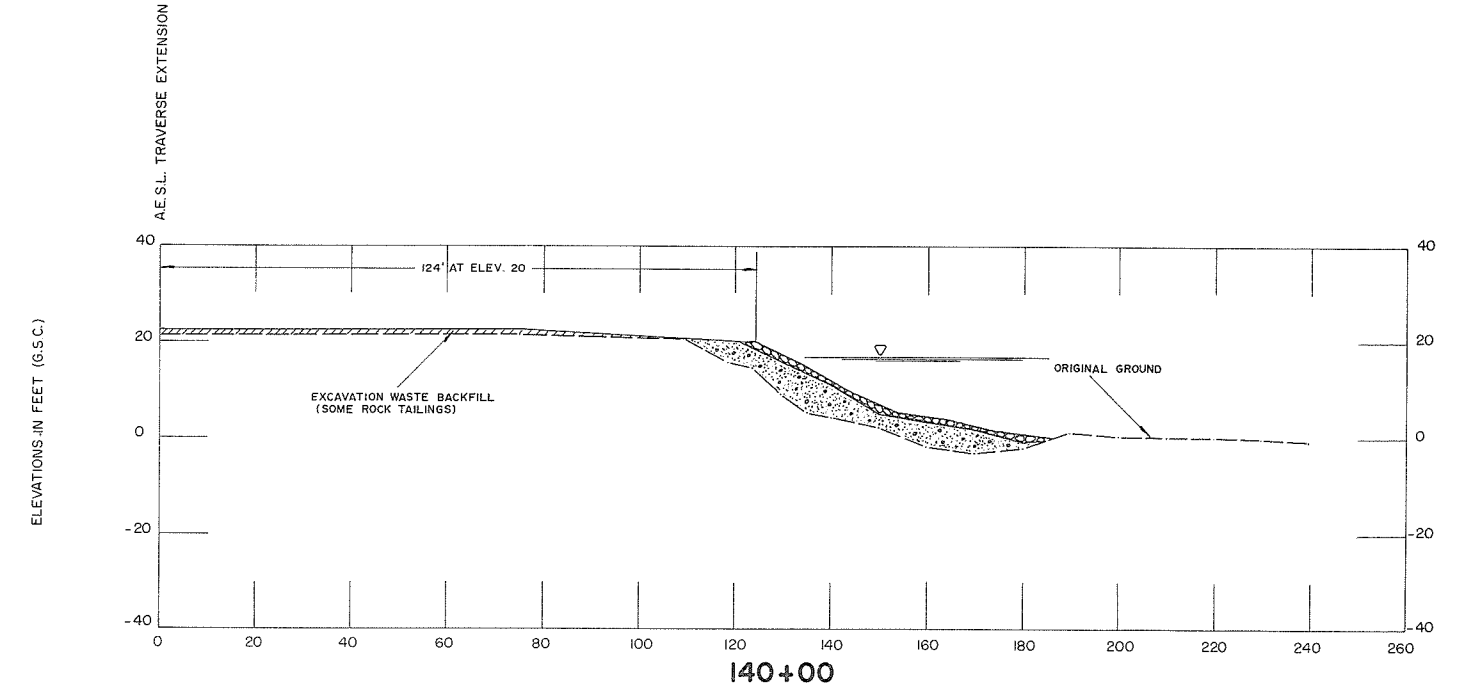
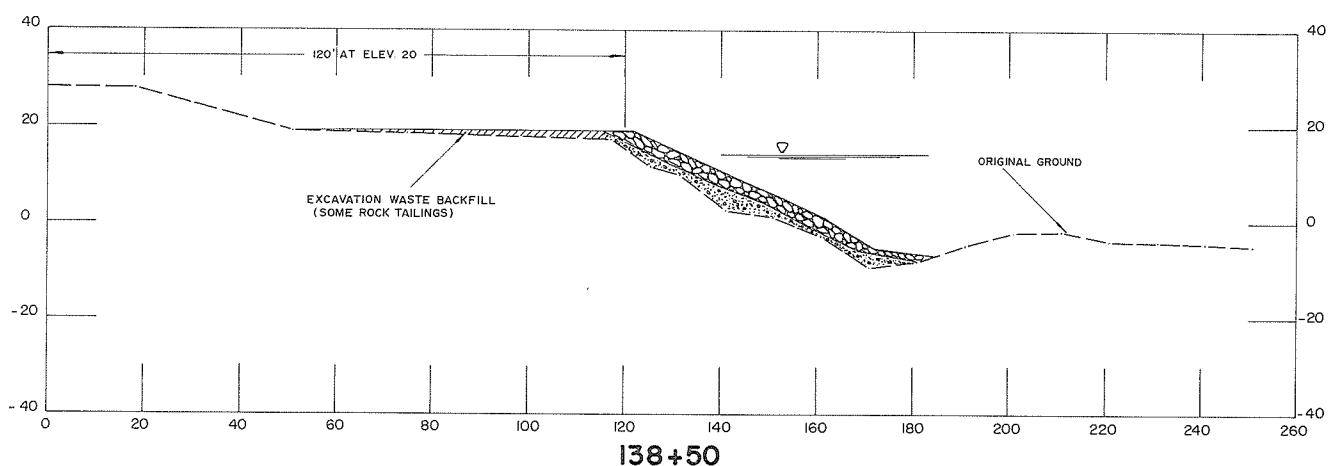
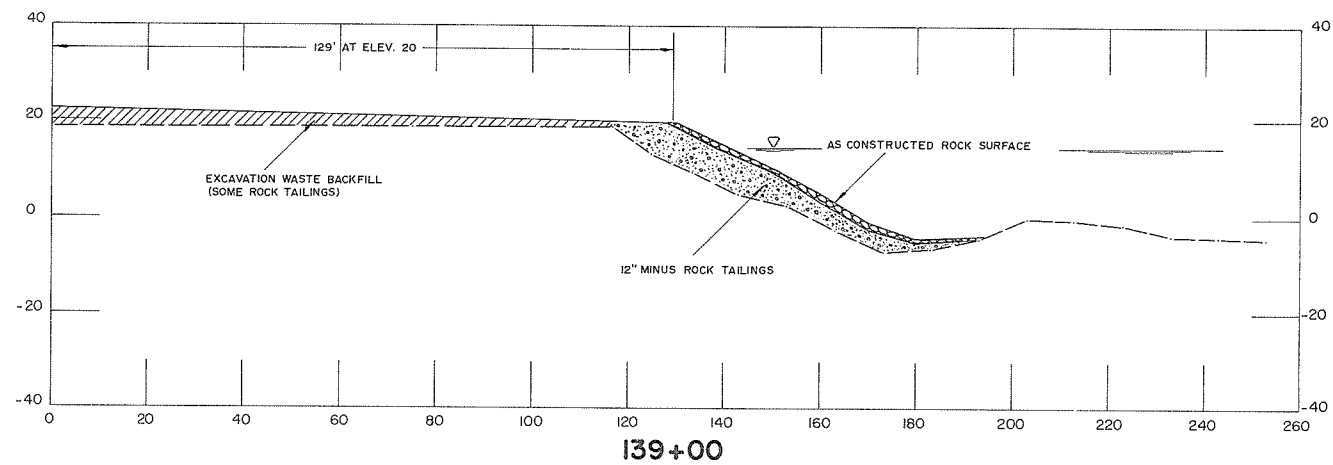
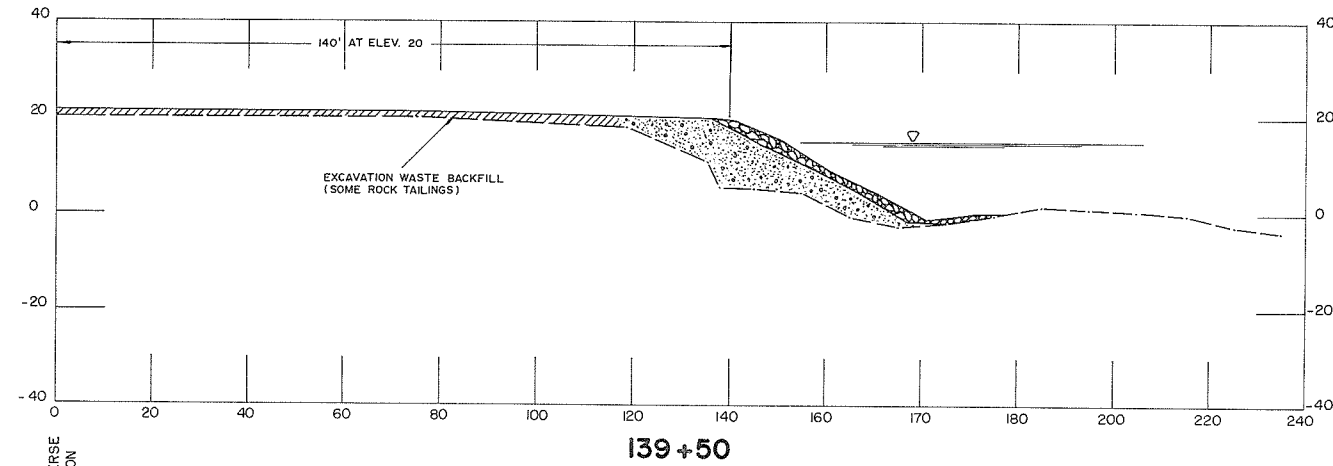
REFERENCES			RECOMMENDED	SURVEYED	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH	CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT No. 4 - DISTRICT OF MATSQUI CONTRACT No. 2 - BANK PROTECTION STA. 117+50 TO STA. 124+05 CROSS SECTIONS	FILE No.
DWG. No.	DESCRIPTION	DATE					<i>R.A. Cameron</i> PROJECT MANAGER DATE: <i>Sept. 25 1975</i>
4804-2-3	Bank protection - Reconstruction & repair cross sections	Aug., 1971	APPROVED <i>[Signature]</i> DIRECTOR DATE: <i>Sept 29 1975</i>	DESIGNED B. Taylor DRAWN D.B.P. TRACED CHECKED R.A.E. DATE Feb., 1973	APPROVED	DWG. No. 4804-2-5	
					SCALE: AS SHOWN	SHEET 5 of 7	



136+00
AS CONSTRUCTED

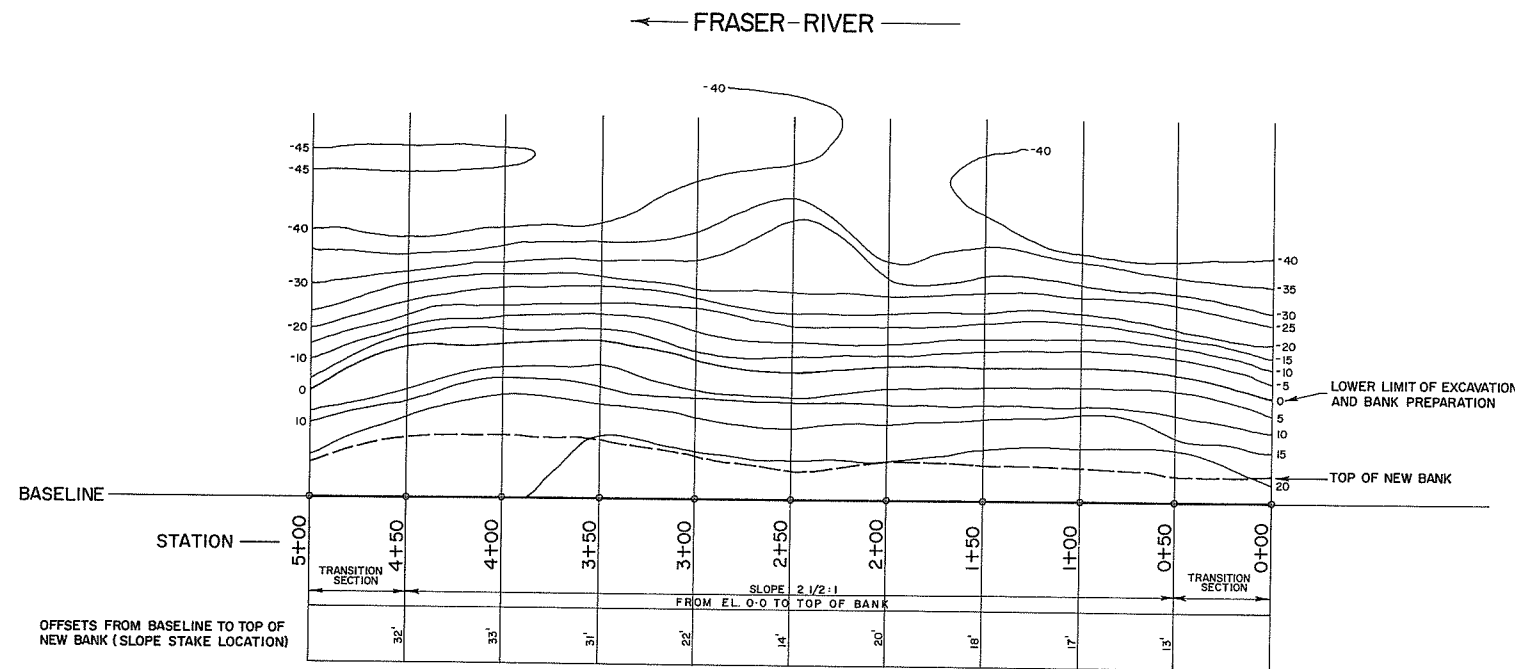
1052

REFERENCES			RECOMMENDED	SURVEYED	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH	FILE No. 0281550 - C22 - 2
DWG. No.	DESCRIPTION	DATE				
4804 - 2 - 3	Bank protection - Reconstruction & repair cross sections	Aug., 1971	<i>R. A. Cameron</i> PROJECT MANAGER DATE: <i>Sept 25 1971</i>	DATE: _____ DESIGNED: <i>B Taylor</i> DRAWN: <i>D.B.P.</i> TRACED: _____ CHECKED: <i>R.A.E.</i> DATE: <i>Feb., 1973</i>	CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT No. 4 - DISTRICT OF MATSQUI CONTRACT No. 2 - BANK PROTECTION STA. 130+50 TO STA. 138+00 CROSS SECTIONS	DWG. No. 4804-2-6
			APPROVED <i>W. G. Sullivan</i> DATE: <i>Sept 29 1971</i> DIRECTOR	DATE: _____ CHECKED: _____ DATE: _____	APPROVED: _____ SCALE: <u>AS SHOWN</u>	SHEET 6 OF 7



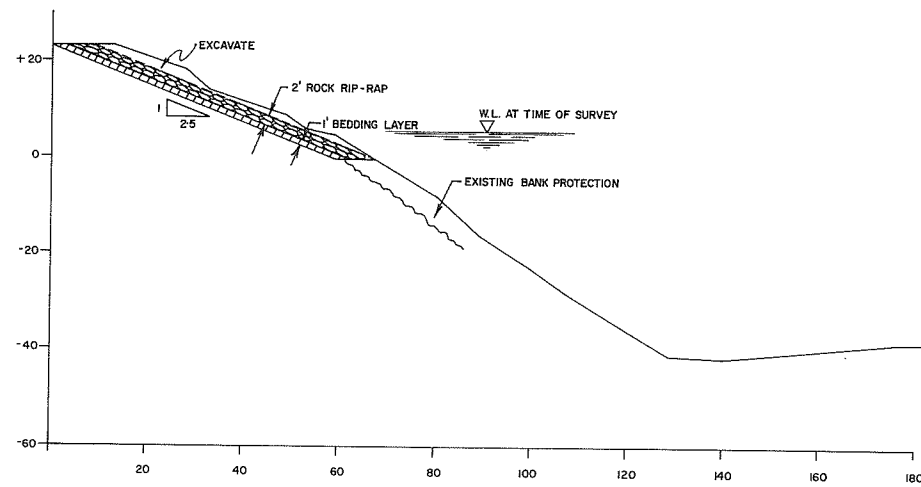
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REFERENCES			RECOMMENDED	SURVEYED	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH	FILE No. 0281550 - C22 - 2
DWG. No.	DESCRIPTION	DATE				
4804-2-3	Bank protection - Reconstruction & repair cross sections	Aug., 1971	<i>[Signature]</i> PROJECT MANAGER DATE: <i>Sept. 25 1971</i>	DATE: _____ DESIGNED: B. Taylor DRAWN: D.B.P. TRACED: _____ CHECKED: R.A.E. DATE: Feb., 1973	CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT No. 4 - DISTRICT OF MATSQUI CONTRACT No. 2- BANK PROTECTION STA. 139+50 TO STA. 140+00 CROSS SECTIONS	DWG. No. 4804-2-7
APPROVED			<i>[Signature]</i> DIRECTOR DATE: <i>Sept. 28/78</i>	APPROVED: _____	SCALE: <u>AS SHOWN</u>	SHEET 7 OF 7

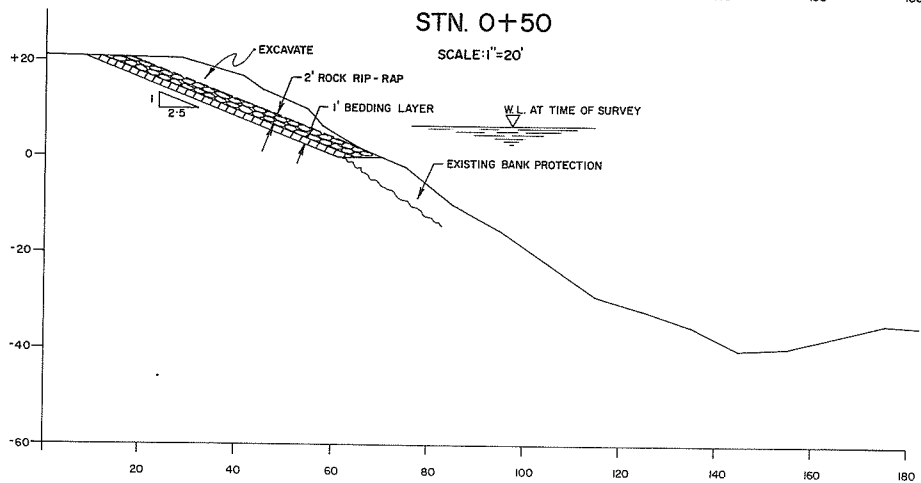


PLAN
SCALE: 1" = 50'

NOTE: Sections perpendicular to base line.

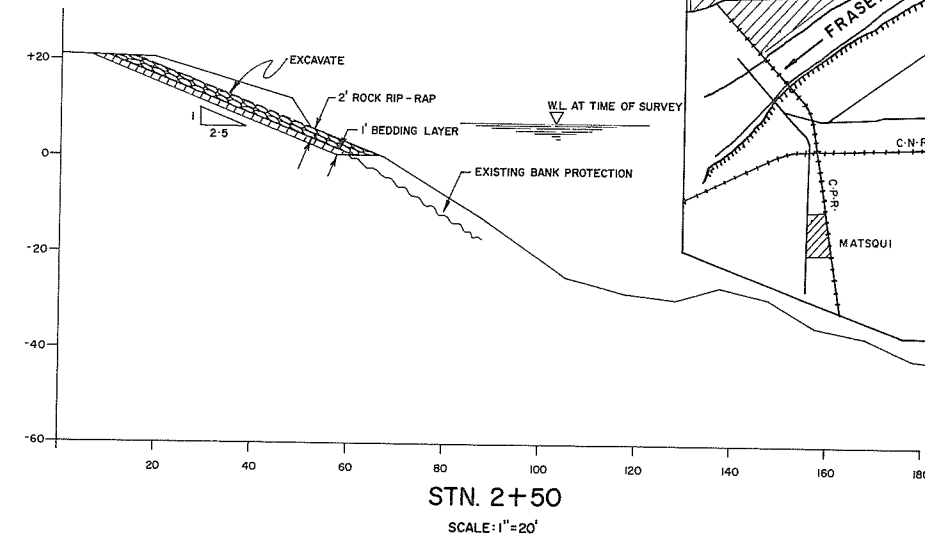


STN. 0+50
SCALE: 1" = 20'

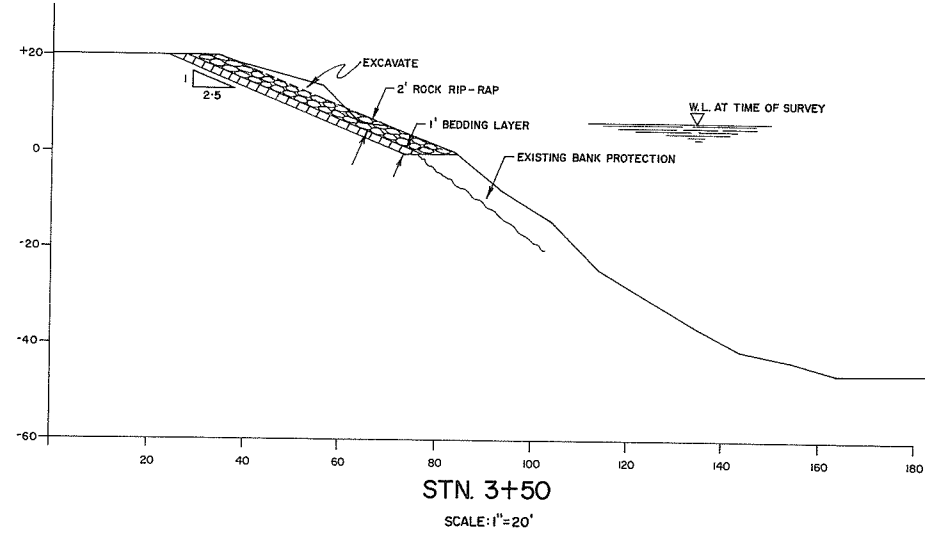


STN. 1+50
SCALE: 1" = 20'

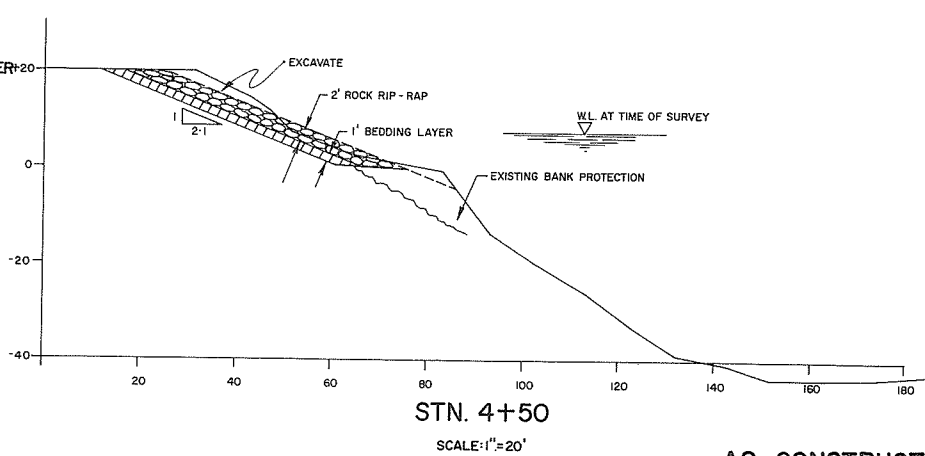
- NOTES:**
- (1) EXCAVATED SUITABLE ROCK TO BE RE-USED ON LOWER SLOPE AND TOE.
 - (2) EXCAVATED EARTH MATERIAL TO BE SPREAD ON OVER-BANK.
 - (3) ROCK SIZES: MAX. STONE SIZE TO BE 500 LBS. (~24"). 50% OF ALL ROCK TO BE OVER 150 LBS. (~14"). NO MORE THAN 10% UNDER 10 LBS. (~6").
 - (4) BEDDING MATERIAL TO BE WELL GRADED GRAVEL WITH A MAX. SIZE OF 6" OR ROCK RUBBLE WITH A MAX. SIZE OF 6".
 - (5) ALL SLOPES IN REPAIR AREAS TO BE FLATTER THAN 1.5 HORIZONTAL TO 1 VERTICAL.



STN. 2+50
SCALE: 1" = 20'



STN. 3+50
SCALE: 1" = 20'

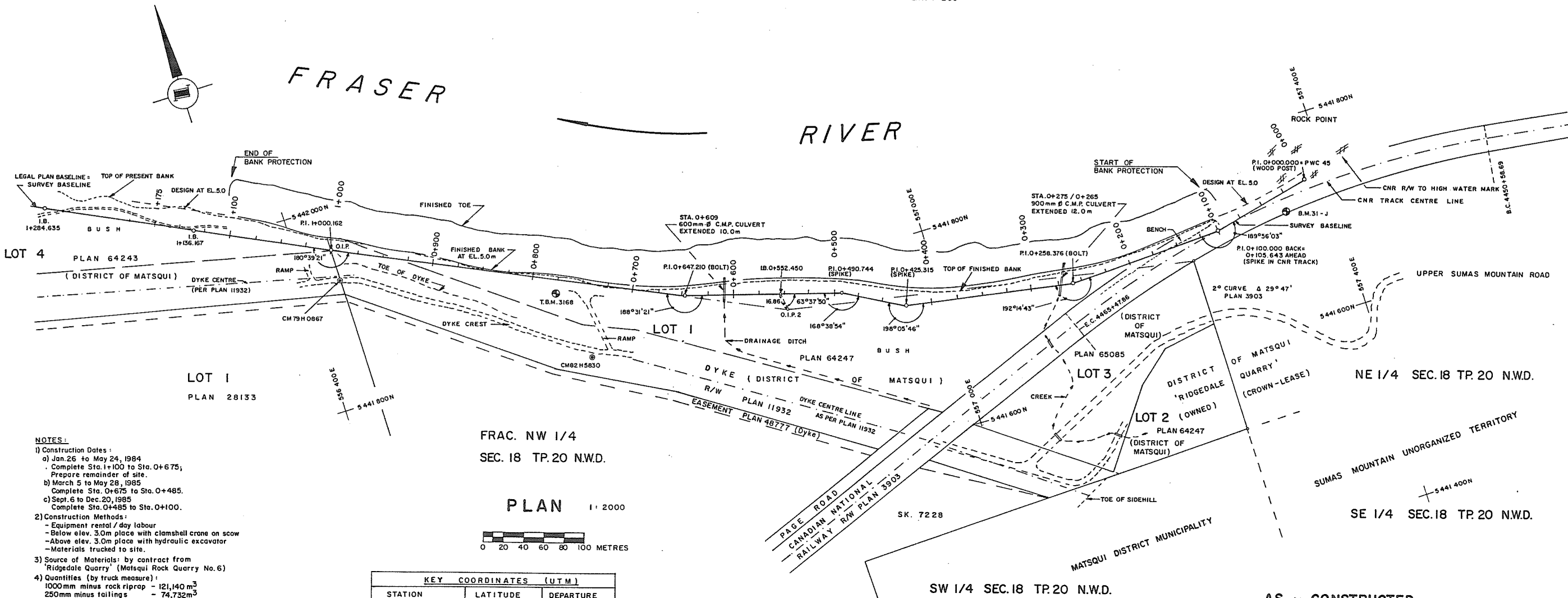
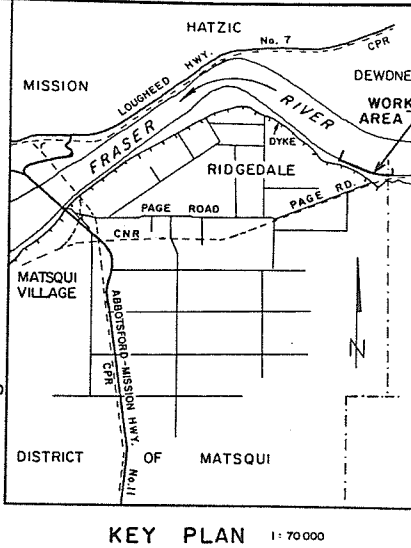
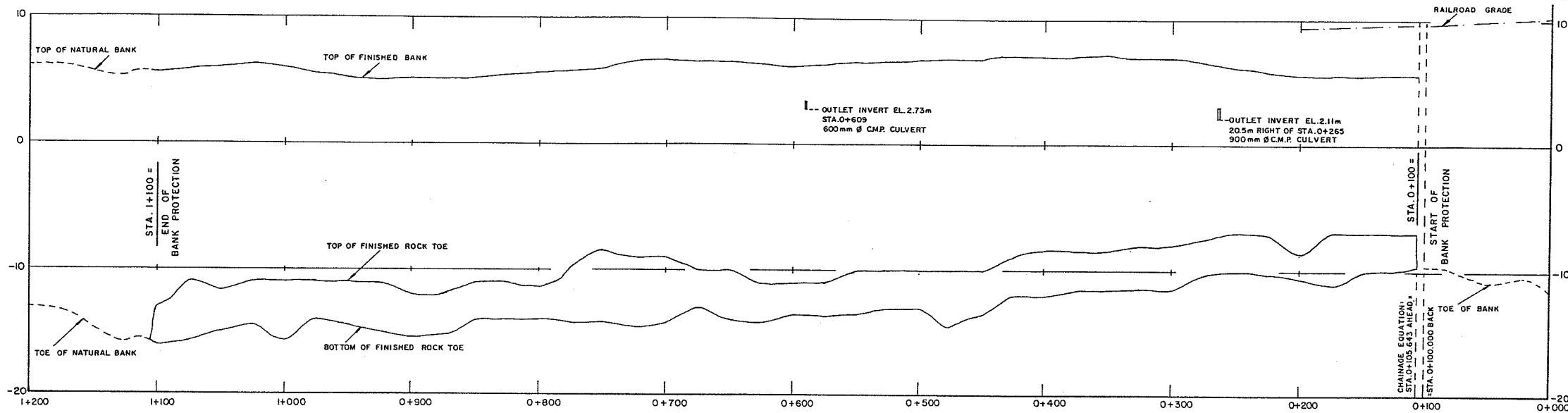


STN. 4+50
SCALE: 1" = 20'

AS CONSTRUCTED

0164

REFERENCES			RECOMMENDED	SURVEYED	DESIGNED	DRAWN	TRACED	CHECKED	DATE	APPROVED	SCALE: AS SHOWN	FILE No. 0281550 - B57
DWG. No.	DESCRIPTION	DATE										
			<p><i>R. W. Cameron</i> PROJECT MANAGER DATE: <i>Sept. 25 1972</i></p> <p><i>John Fuller</i> DIRECTOR DATE: <i>Sept 28 78</i></p>	<p>DATE: _____</p> <p><i>J. WESTER</i> DATE: _____</p> <p><i>R. BROWN</i> DATE: _____</p> <p>MARCH 1972</p>	<p>BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH</p> <p>FRASER RIVER JOINT PROGRAM DISTRICT OF MATSQUI</p> <p>PROPOSED REPAIRS TO BANK PROTECTION IN THE RIDGEDALE AREA</p> <p><i>P.M. Bridg</i></p>	<p>SCALE: AS SHOWN</p>	<p>DWG. No. 4804-4-1</p>	<p>SHEET OF</p>				



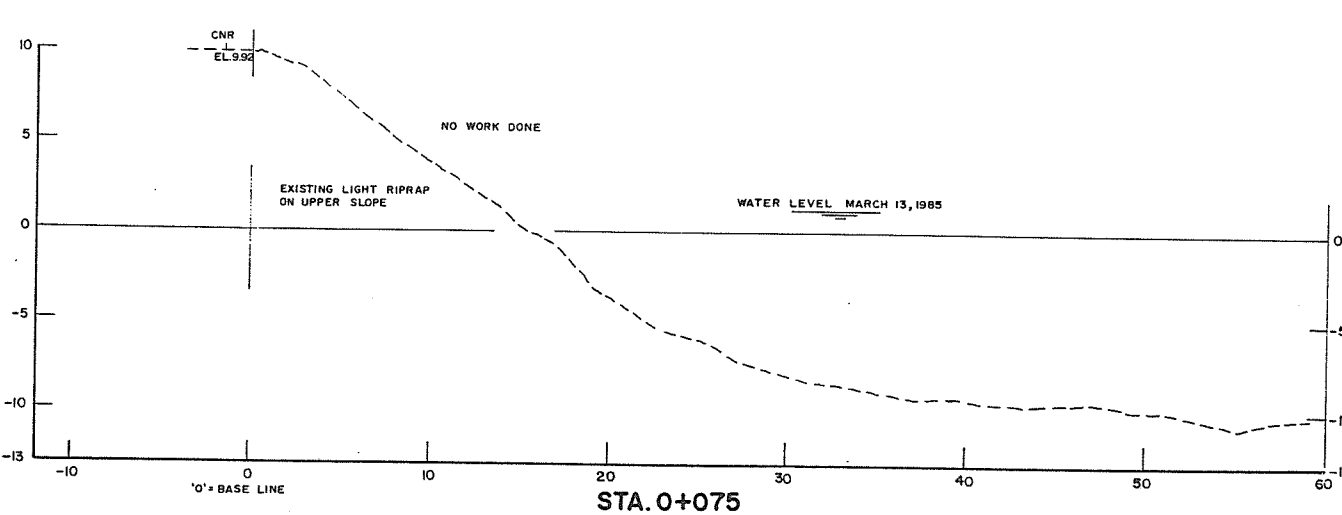
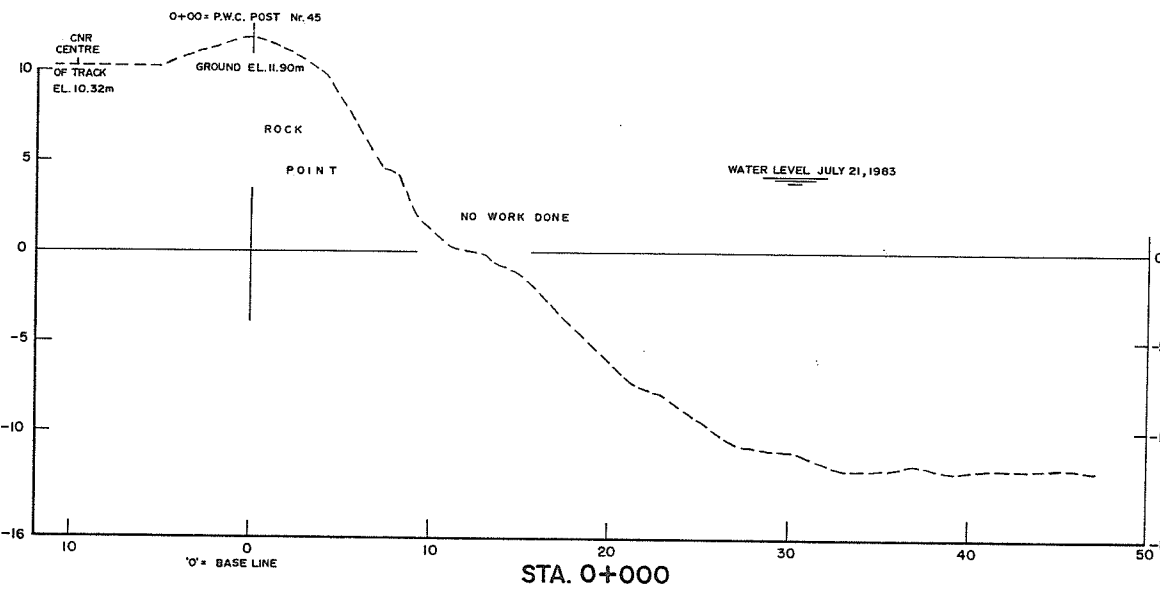
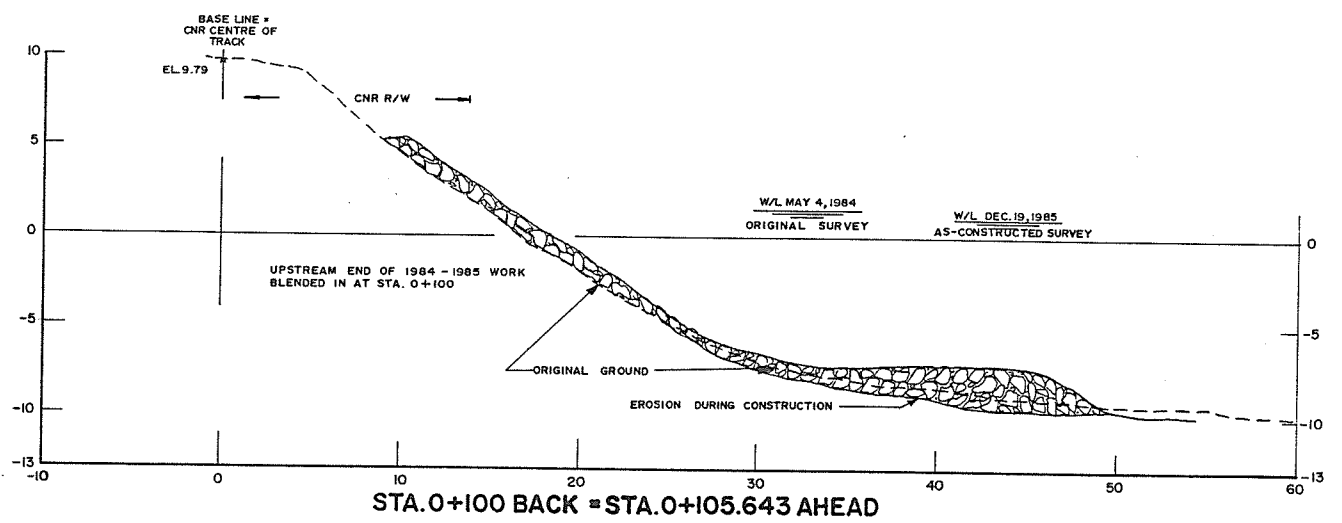
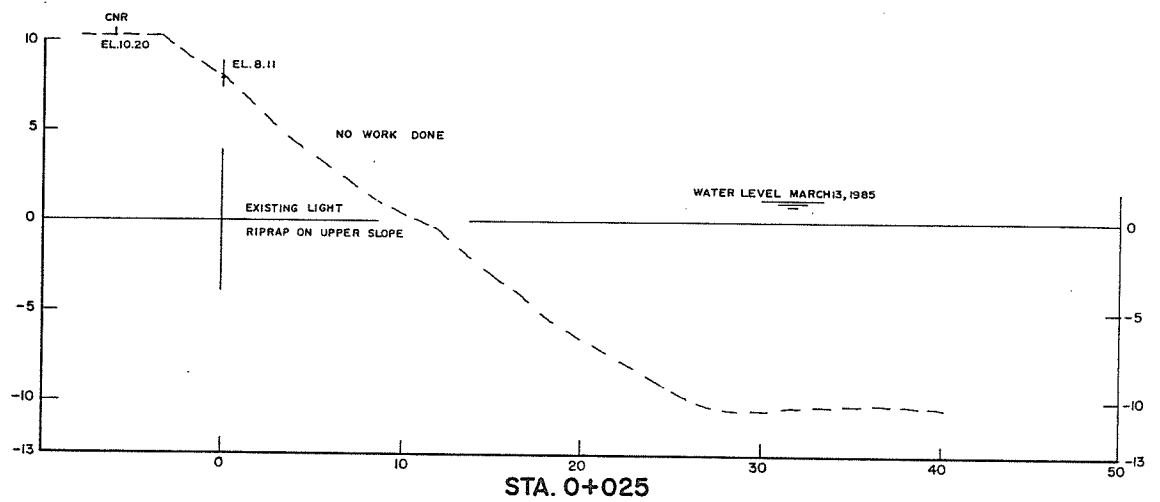
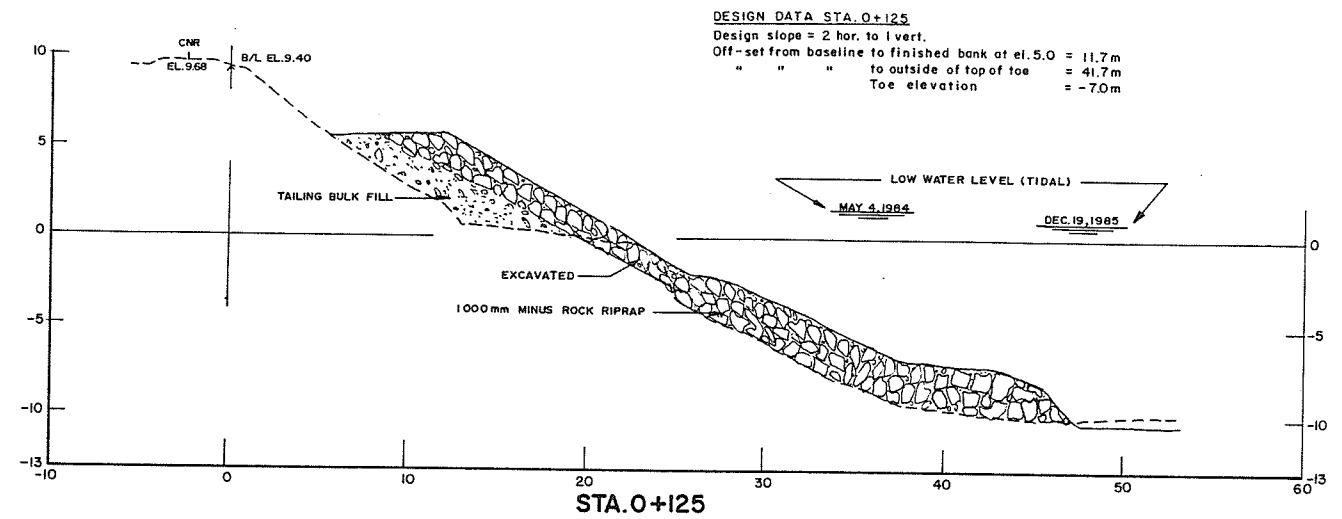
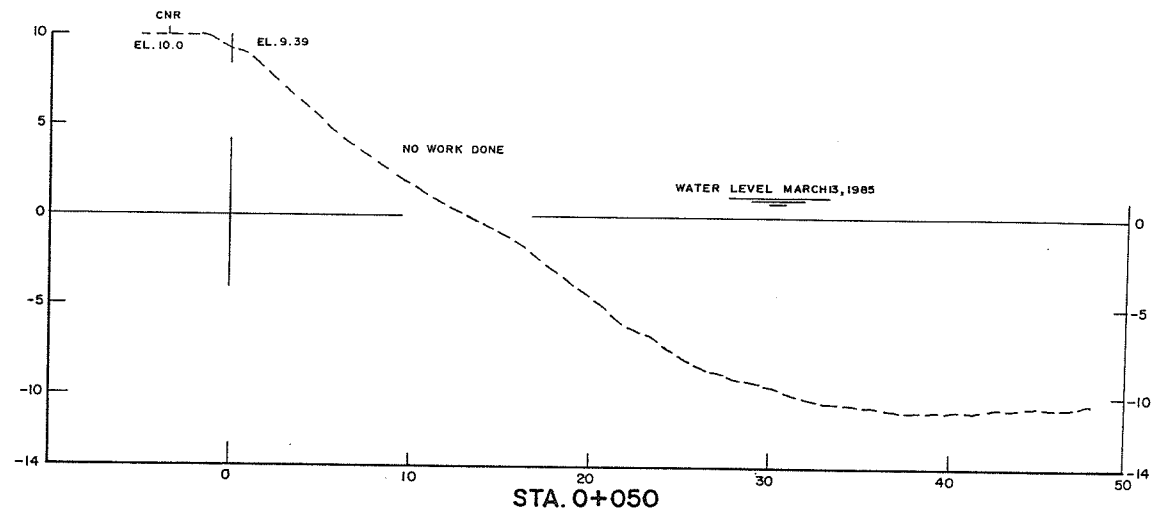
- NOTES:**
- Construction Dates:
 - a) Jan. 26 to May 24, 1984 - Complete Sta. 1+100 to Sta. 0+675; Prepare remainder of site.
 - b) March 5 to May 28, 1985 - Complete Sta. 0+675 to Sta. 0+485.
 - c) Sept. 6 to Dec. 20, 1985 - Complete Sta. 0+485 to Sta. 0+100.
 - Construction Methods:
 - Equipment rental / day labour
 - Below elev. 3.0m place with clamshell crane on scow
 - Above elev. 3.0m place with hydraulic excavator
 - Materials trucked to site.
 - Source of Materials: by contract from 'Ridgedale Quarry' (Matsqui Rock Quarry No. 6)
 - Quantities (by truck measure):
 - 1000mm minus rock riprap - 121,140 m³
 - 250mm minus tailings - 74,732 m³
 - Geodetic Elevations:
 - BM 31-J Elev. 10.760m
 - Bolt set horizontally in rockface at southside of railway tracks approx. 30m west of PWC 45 and 12.8m south of track.
 - TBM 3168 (WB) Elev. 6.342m
 - Spike in willow tree 13.2m south of Sta. 0+775.
 - For Dyke Details see Drawing No. 4804-1-9 in Manual.
 - This site lies within the G.V.R.D. 'MATSQUI TRAIL REGIONAL PARK'.

KEY COORDINATES (UTM)		
STATION	LATITUDE	DEPARTURE
STA. 0+000/PWC 45	5 441 734.796	557 377.202
P.I. 0+100	5 441 713.092	557 279.586
P.I. 0+258.376	5 441 706.161	557 127.010
P.I. 0+425.315	5 441 734.128	556 962.430
P.I. 0+490.744	5 441 764.583	556 904.521
O.I.P. 2	5 441 765.383	556 848.277
P.I. 0+647.210	5 441 808.730	556 754.412
O.I.P./P.I. 1+000.162	5 441 957.398	556 434.298
I.B./P.O.T. 1+284.635	5 442 080.166	556 177.680

Coordinate Survey Project 83RPP-8
 Ministry of Environment
 Water Management Branch, Victoria, B.C.

REVISIONS		
No.	DESCRIPTION	DATE
1	Supersedes Dwg. 4804-6-B; Supersedes As-Constructed Dwg. 4804-4-1 in Manual.	

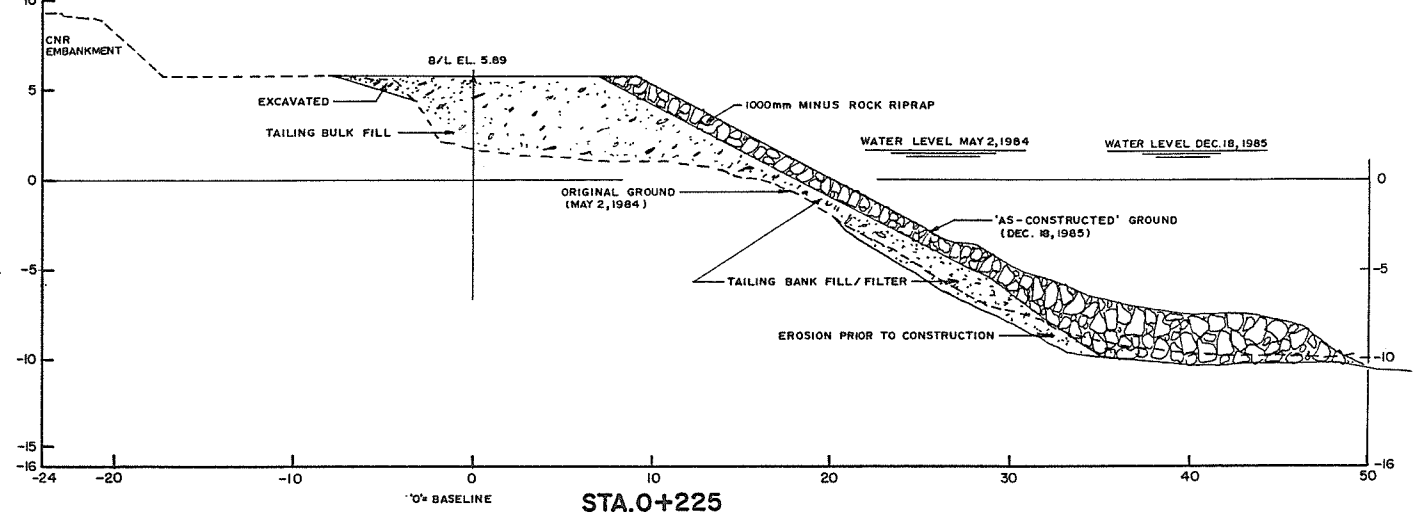
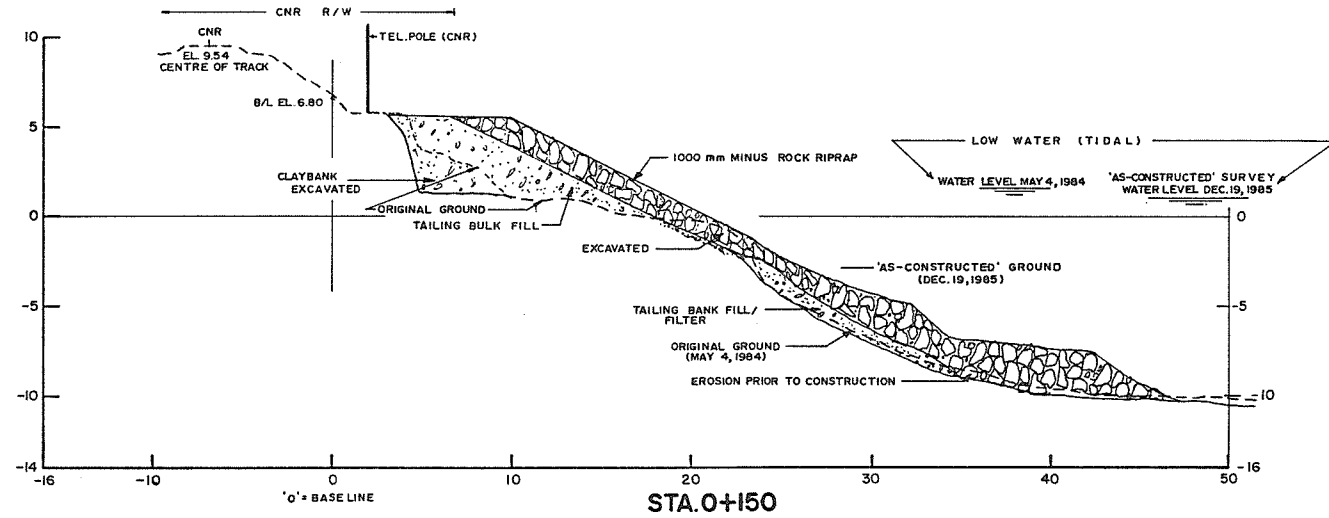
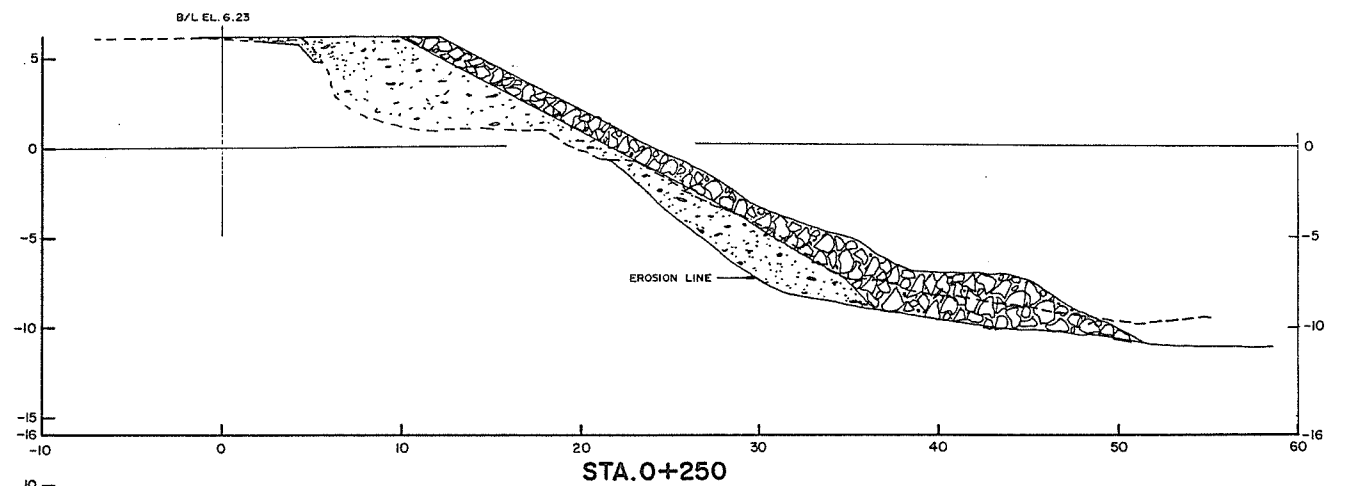
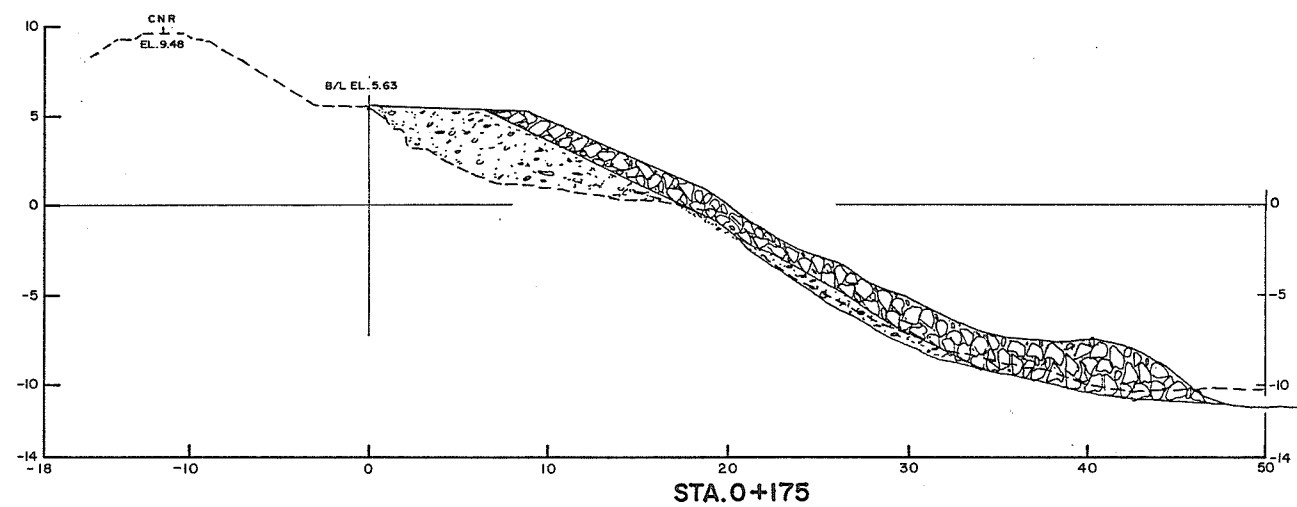
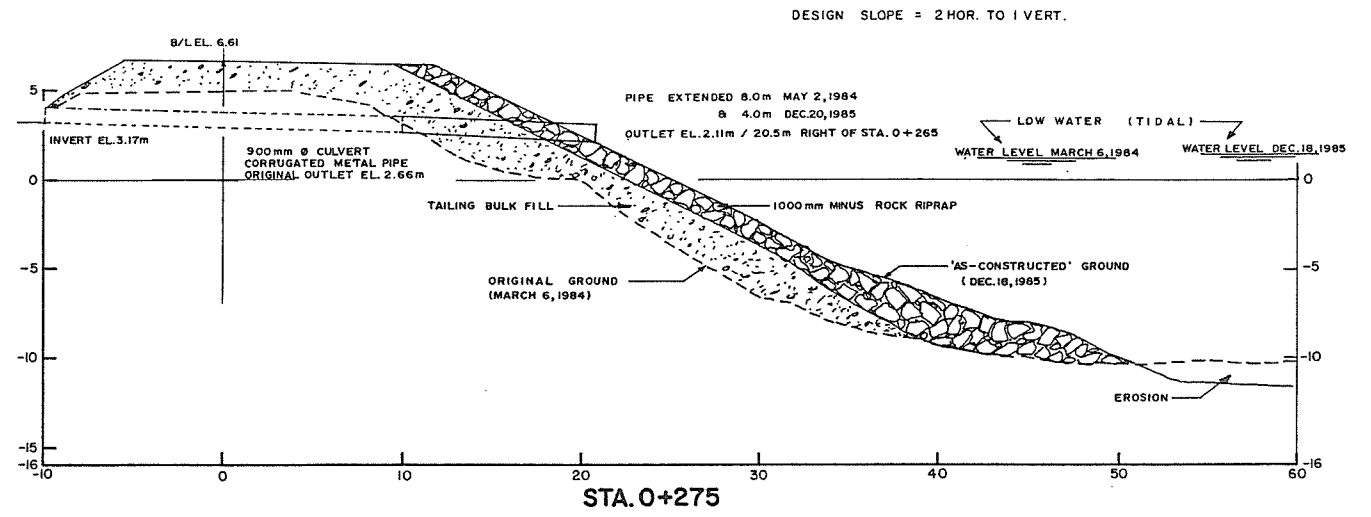
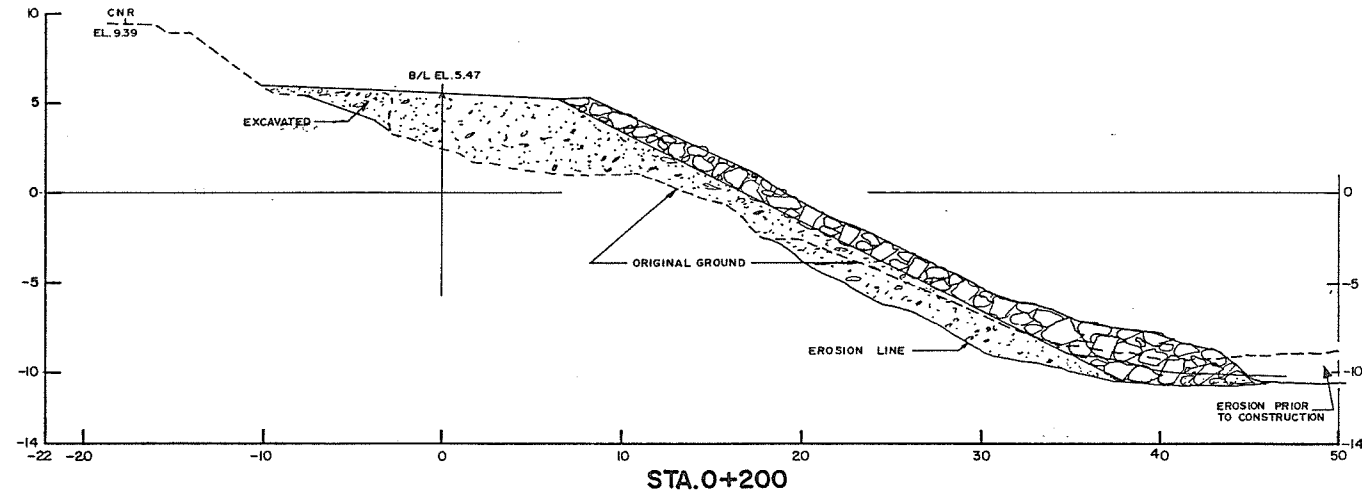
RECOMMENDED <i>A.N. Cameron</i> DATE: Oct. 27, 1987 RECOMMENDED <i>[Signature]</i> DATE: Oct. 29, 1987 APPROVED <i>[Signature]</i> DATE: Nov. 23, 1987	Province of British Columbia Ministry of Environment WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT Project No. 4 DISTRICT OF MATSQUI Contract No. 6 BANK PROTECTION AT RIDGEDALE PLAN & VERTICAL ALIGNMENT STA. 0+000 TO STA. 1+100	FILE No. 0281550-C22-6 SURVEYED Various DESIGNED K.F. Bornemann DATE 1983-1985 DRAWN K.F.B. SCALE As Shown DATE May 26, 1987 DRAWING No. 4804-6-15 CHECKED SHEET 1 of 9
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NOTE:
Original bank protection design between Sta's 0+000 and 0+125 altered as CNR did not agree to participate.
Therefore work blended in at Sta. 0+100.

AS CONSTRUCTED

REVISIONS			RECOMMENDED	Province of British Columbia Ministry of Environment WATER MANAGEMENT BRANCH CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT		FILE No.	SURVEYED
No.	DESCRIPTION	DATE	DATE	Project No. 4 DISTRICT OF MATSQUI Contract No. 6 BANK PROTECTION AT RIDGEDALE CROSS SECTIONS STA. 0+000 to STA. 0+125		0281550-C22-6	Various
			Oct. 27, 1987			DESIGNED	DATE 1983-1985
			Oct. 29, 1987			K.F. Borsemann	SCALE As Shown
			Oct. 29, 1987			DRAWN	DRAWING No.
			Oct. 29, 1987			A.D.B. & K.F.B.	4804-6-16
			Oct. 29, 1987			DATE	SHEET 2 of 9
			Oct. 29, 1987			May 26, 1987	
			Oct. 29, 1987			CHECKED	

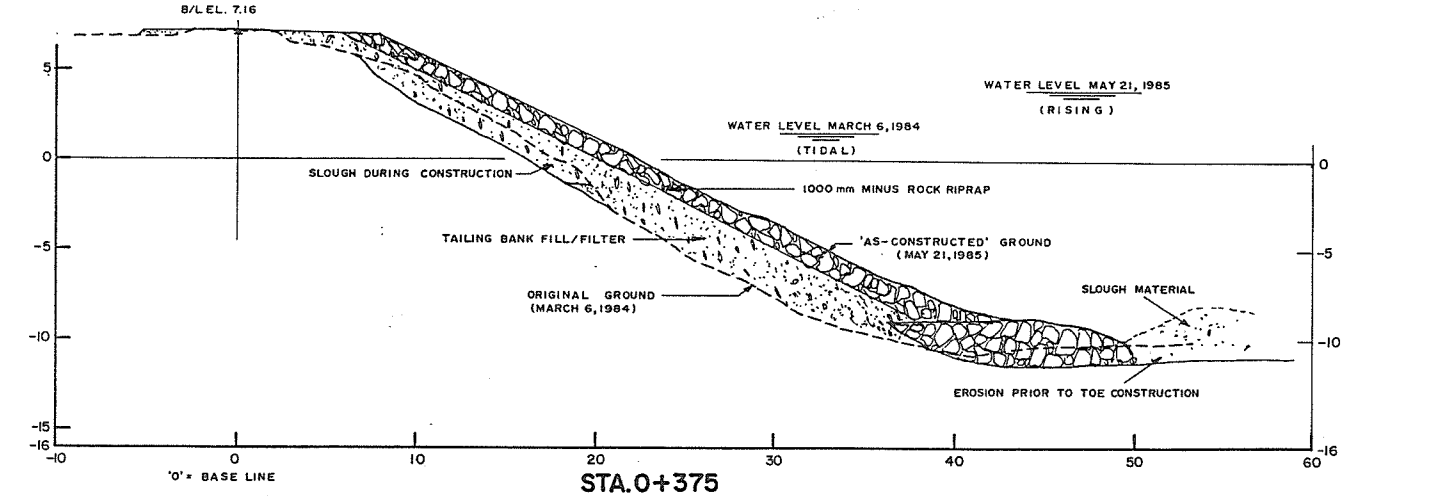
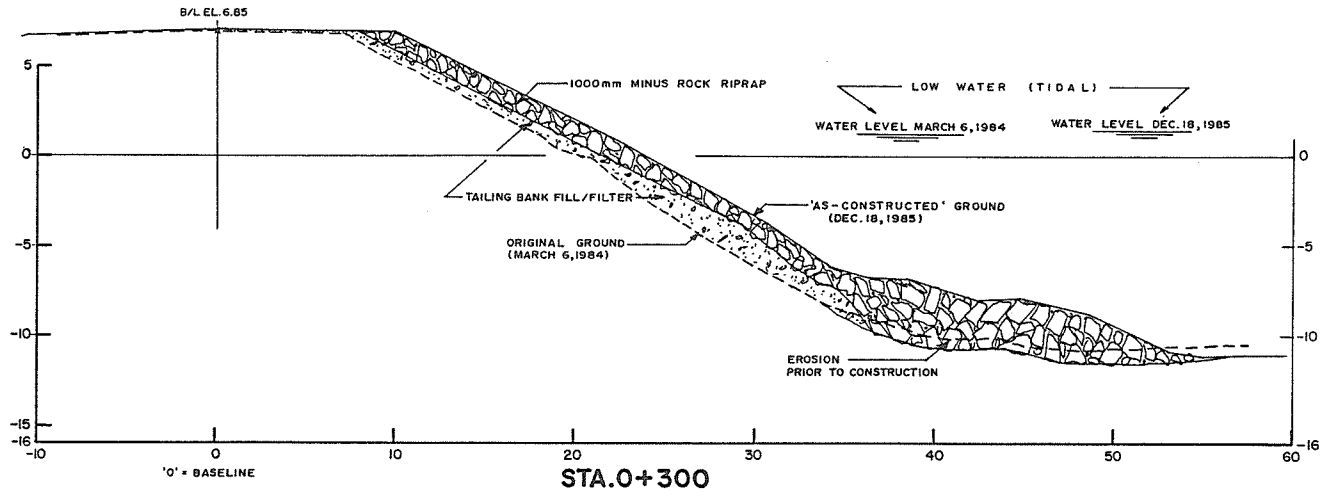
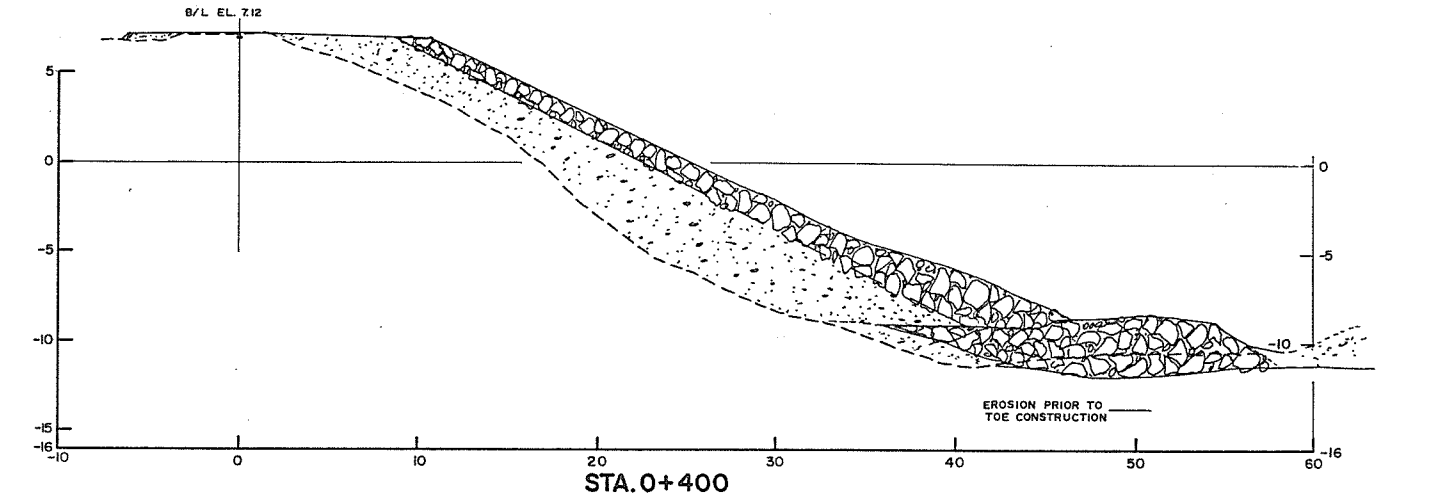
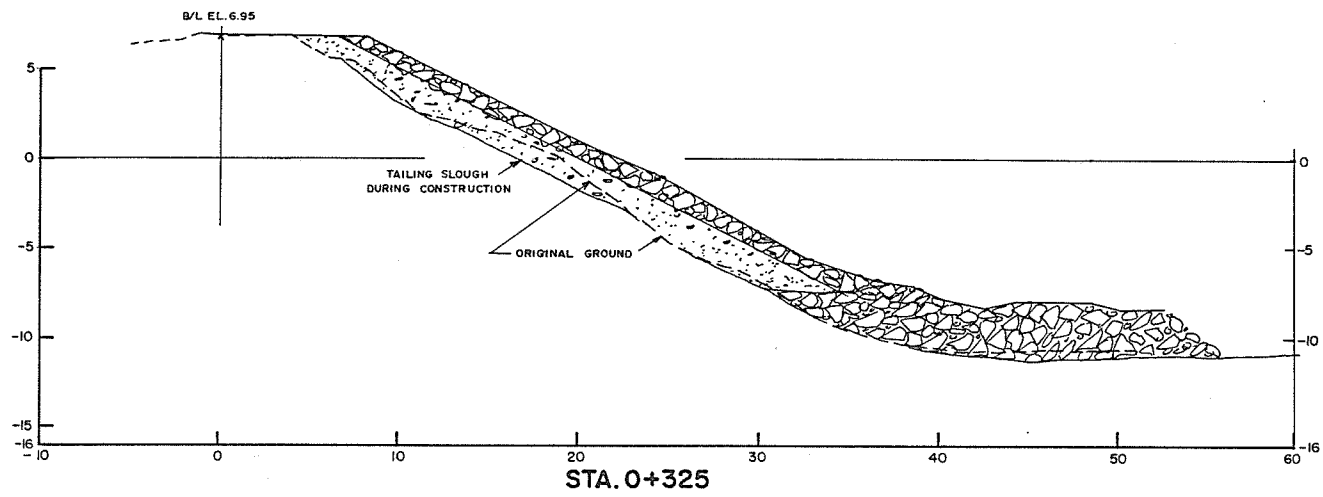
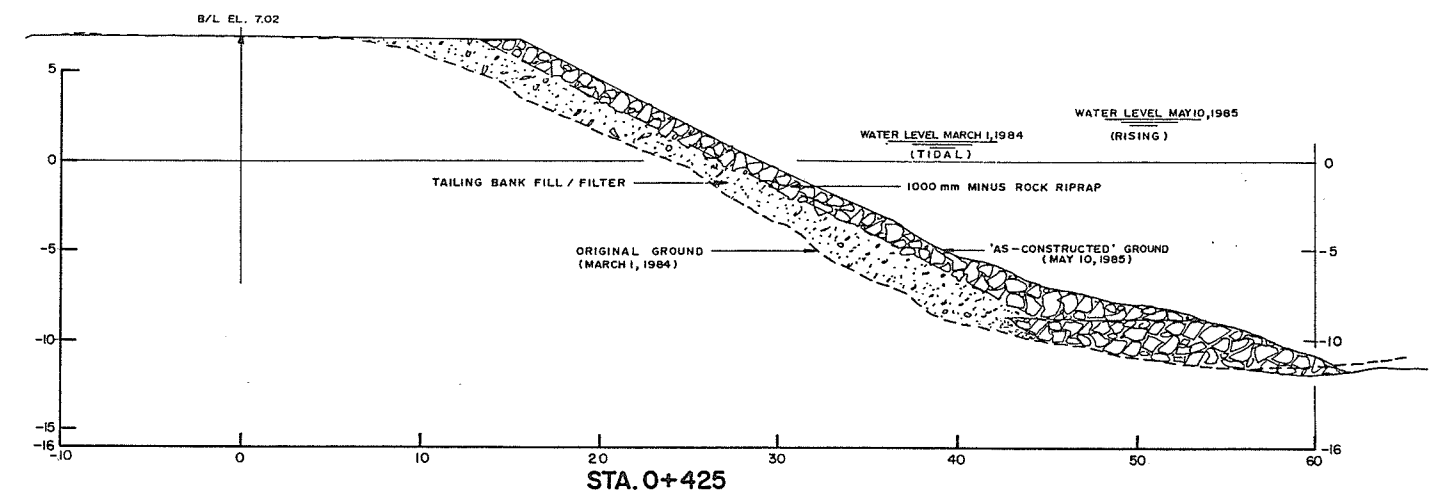
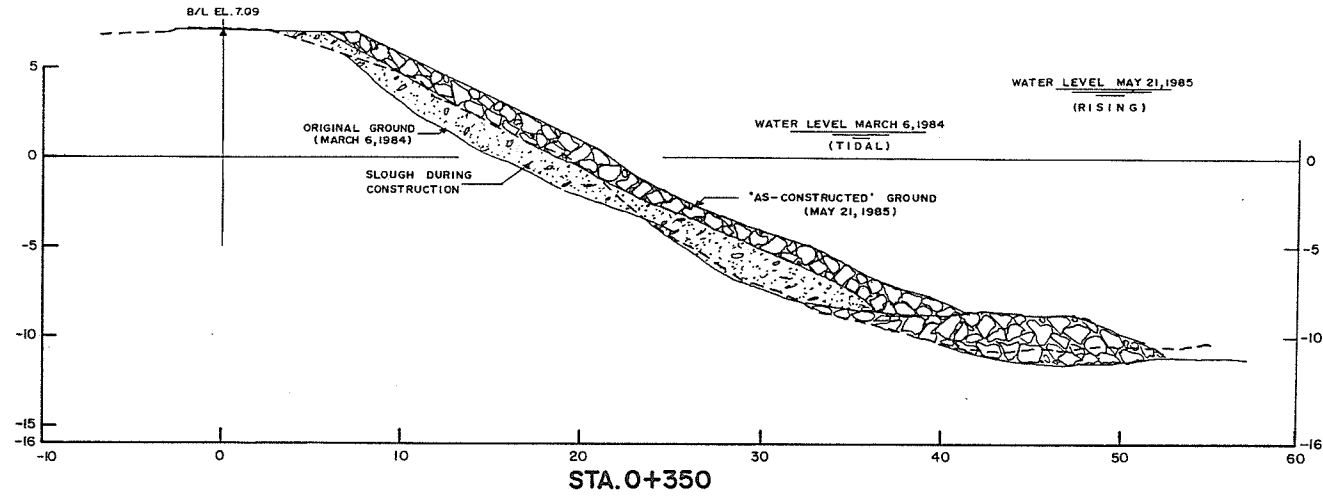


DESIGN DATA:
 DESIGN SLOPE = 2 HOR. TO 1 VERT.
 DESIGN OFF-SETS FROM BASELINE:

STATION	DISTANCE TO FINISHED BANK OUTSIDE OF AT EL. 5.0m	DISTANCE TO TOP OF TOE	TOE ELEVATION
0+150	10.6	40.6	-7.0
0+175	9.5	39.5	-7.0
0+200	9.0	39.0	-7.0
0+225	10.3	40.3	-7.0
0+250	14.0	44.0	-7.0
0+275	14.5	44.5	-7.5

AS CONSTRUCTED

REVISIONS			RECOMMENDED <i>A.H. Cameron</i>	DATE <i>Oct. 27, 1987</i>	Province of British Columbia Ministry of Environment WATER MANAGEMENT BRANCH CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	FILE No. 0281550-C22-9	SURVEYED Various
No.	DESCRIPTION	DATE					
			RECOMMENDED <i>[Signature]</i>	DATE <i>Oct. 29, 1987</i>	Project No. 4 DISTRICT OF MATSQUI Contract No. 6 BANK PROTECTION AT RIDGEDALE CROSS SECTIONS STA. 0+150 to STA. 0+275	DESIGNED <i>K.F. Broomfield</i>	DATE 1983-1985
			APPROVED <i>[Signature]</i>	DATE <i>May 26, 1987</i>			
			DATE <i>May 26, 1987</i>			DRAWN <i>A.D.B. & K.F.B.</i>	SCALE As Shown
						CHECKED	DRAWING No. 4804-6-17
							SHEET 3 of 9

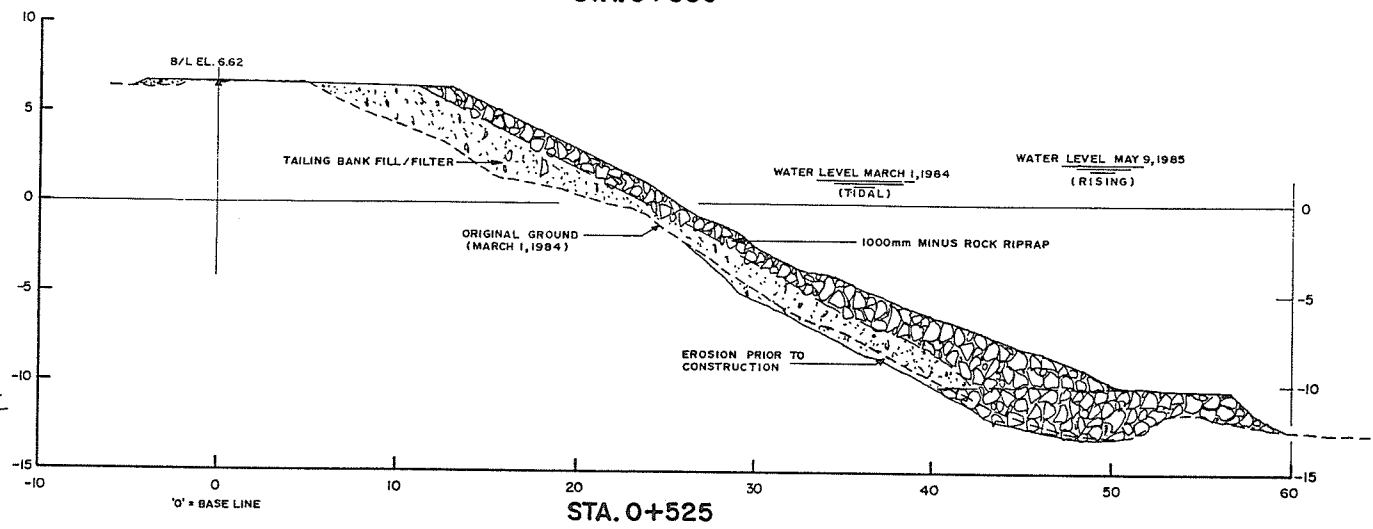
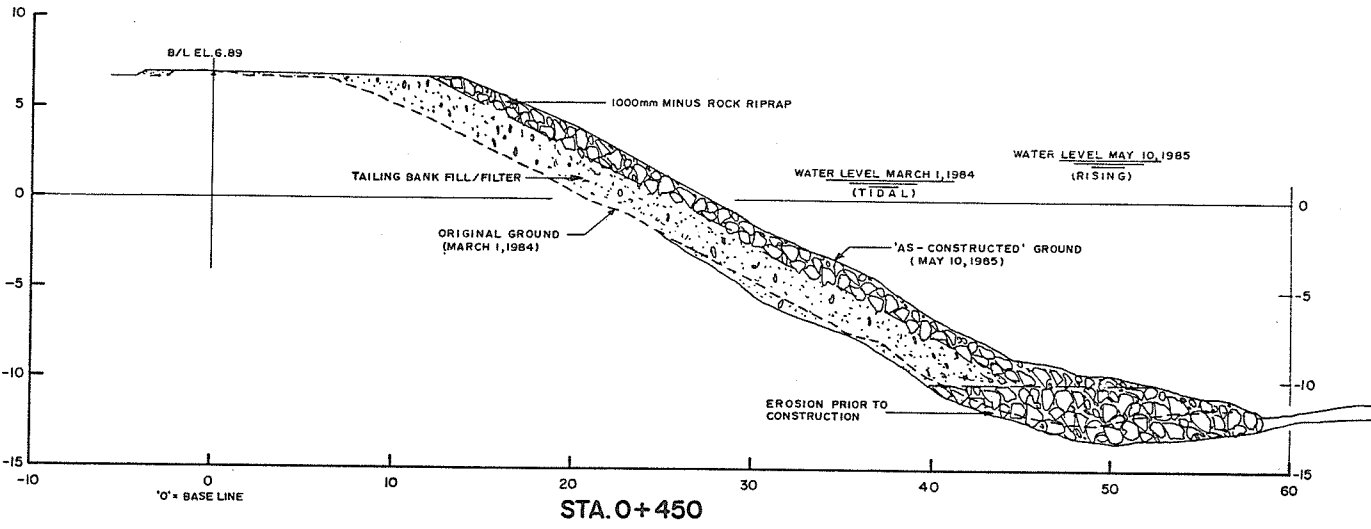
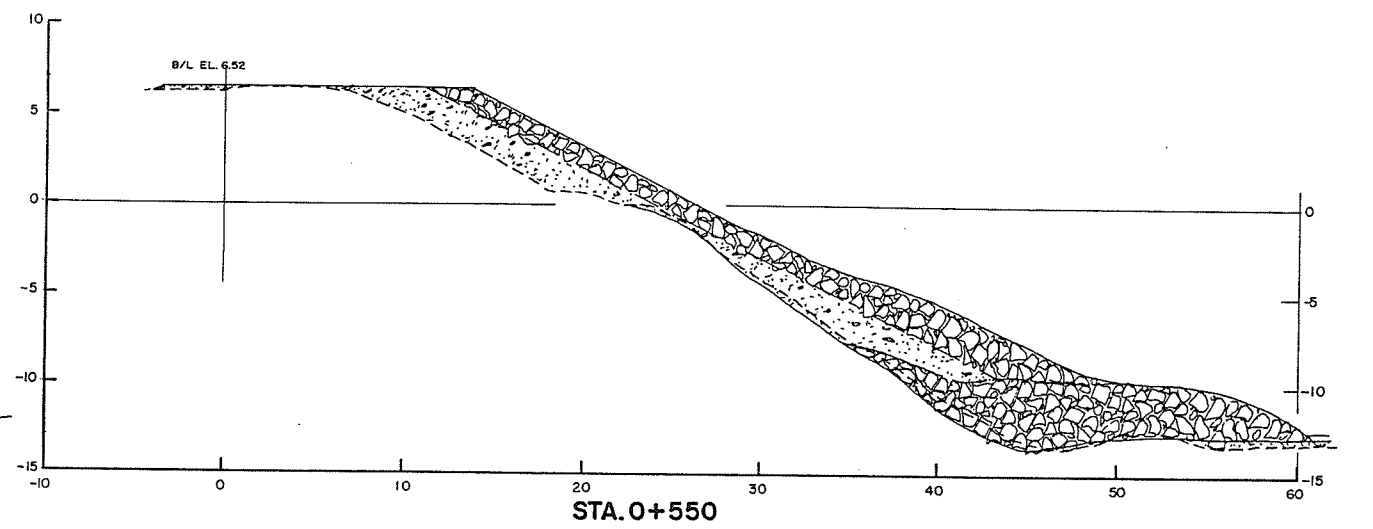
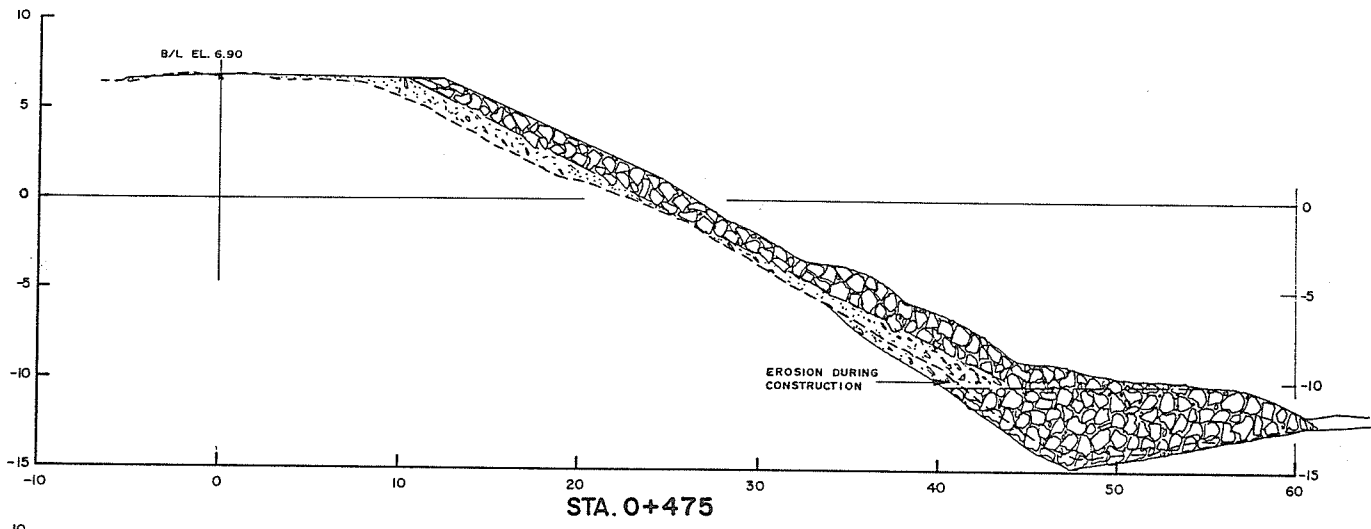
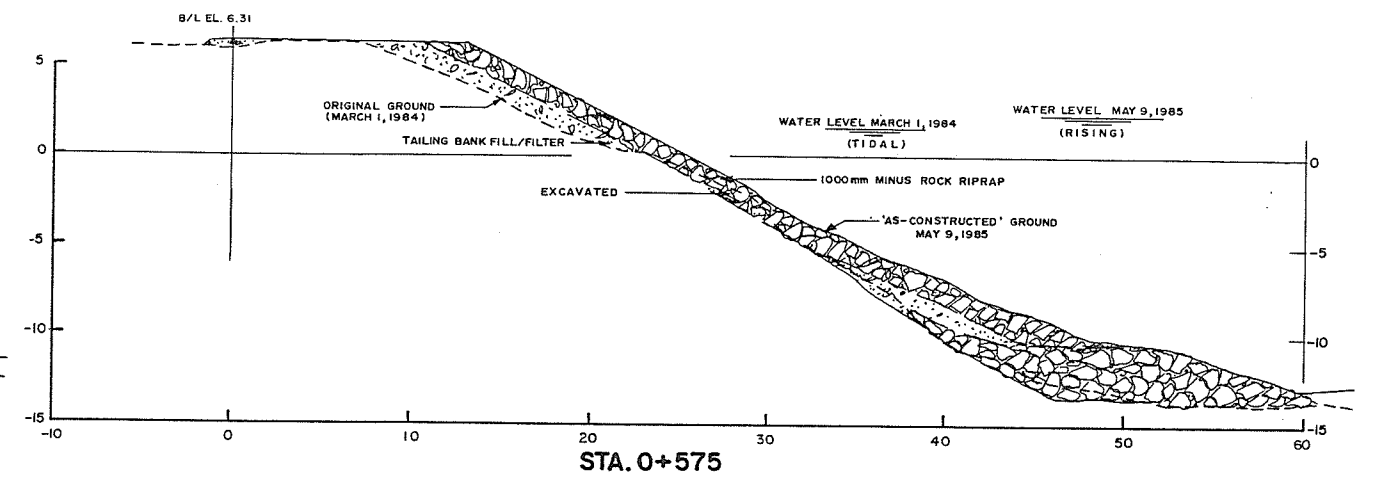
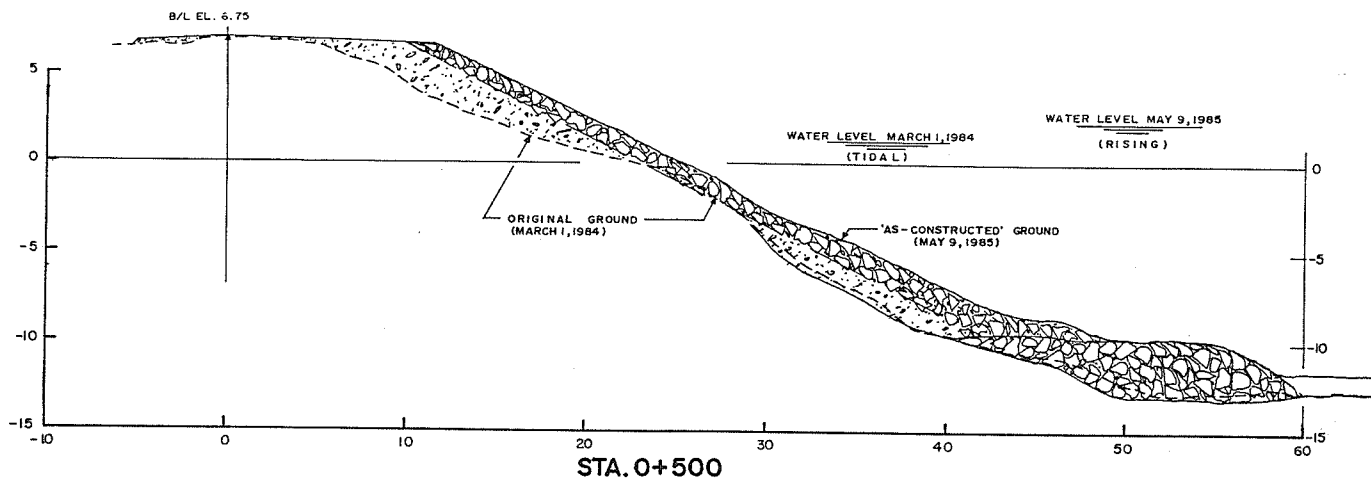


DESIGN DATA:
 DESIGN SLOPE = 2 HOR. TO 1 VERT.
 DESIGN OFF-SETS FROM BASELINE:

STATION	DISTANCE TO		TOE ELEVATION
	FINISHED BANK AT EL. 5.0m	OUTSIDE OF TOP OF TOE	
0+300	13.5	45.5	- 8.0
0+325	12.5	44.5	- 8.0
0+350	11.7	44.7	- 8.5
0+375	12.1	45.1	- 8.5
0+400	14.6	48.6	- 9.0
0+425	19.0	53.0	- 9.0

AS CONSTRUCTED

REVISIONS			RECOMMENDED <i>R.H. Cameron</i> DATE <i>Oct. 27, 1987</i> RECOMMENDED <i>[Signature]</i> DATE <i>Oct. 29, 1987</i> APPROVED <i>[Signature]</i> DATE <i>Nov. 23, 1987</i>	Province of British Columbia Ministry of Environment WATER MANAGEMENT BRANCH CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT Project No. 4 DISTRICT OF MATSQUI Contract No. 6 BANK PROTECTION AT RIDGEDALE CROSS SECTIONS STA. 0+300 to STA. 0+425	FILE No.	SURVEYED
No.	DESCRIPTION	DATE			028550-C22-6	Various
					DESIGNED <i>K.F. Bornemann</i>	DATE 1983-1985
					DRAWN <i>A.D.R. B. KER</i>	SCALE As Shown
			DATE May 26, 1987	DRAWING No. 4804-6-18		
			CHECKED	SHEET 4 of 9		

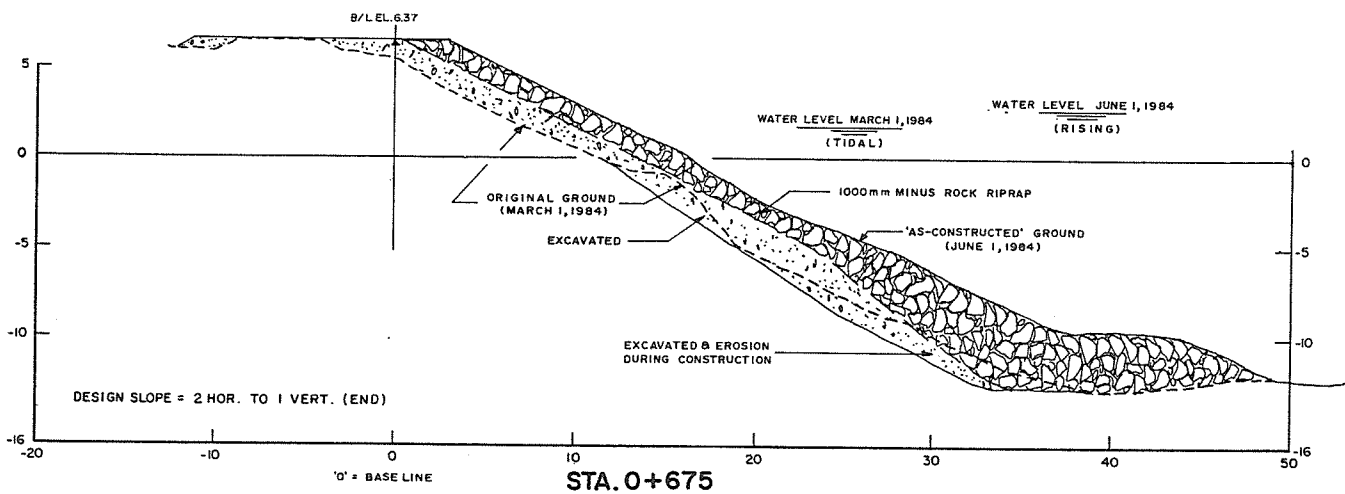
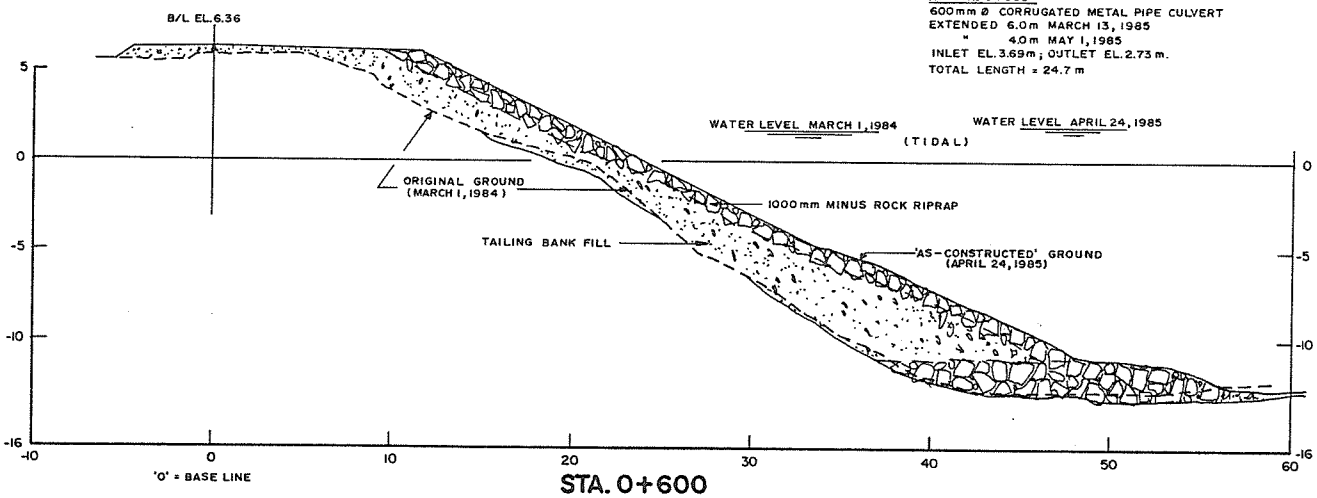
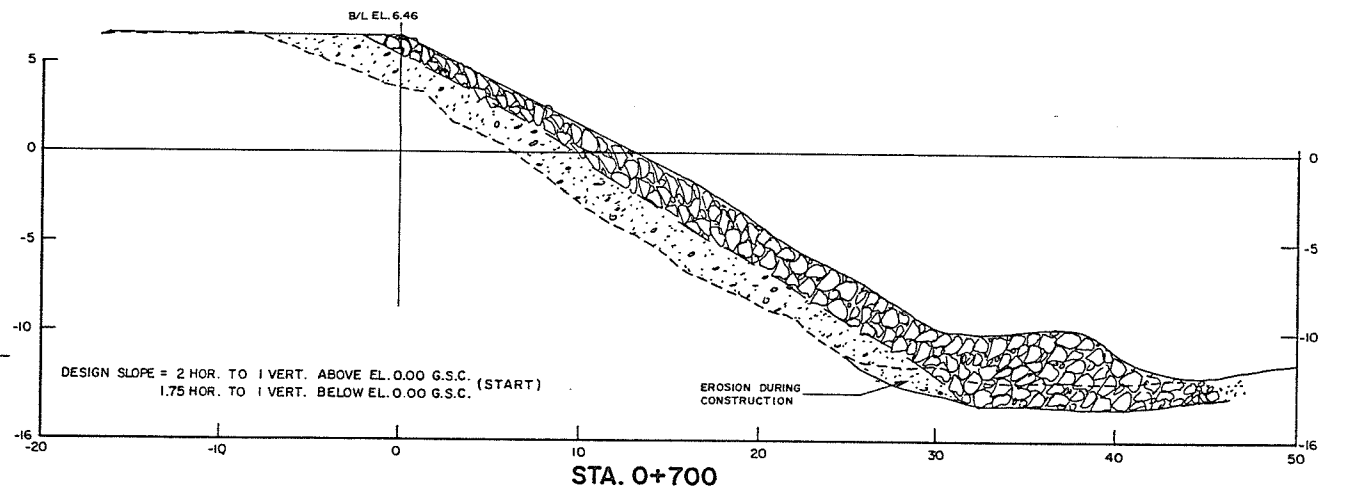
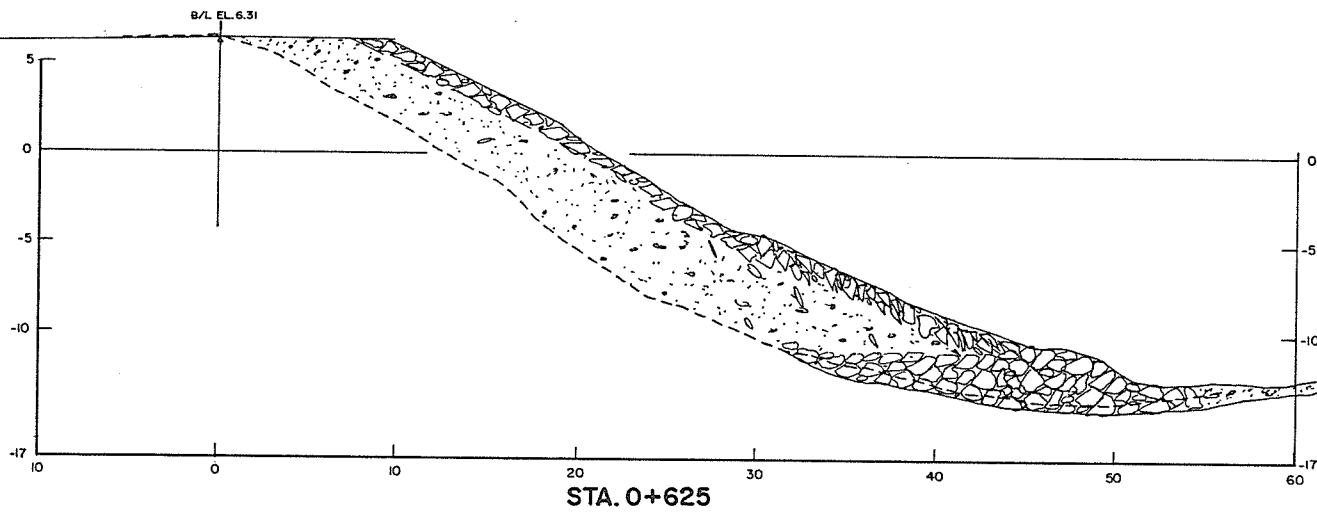
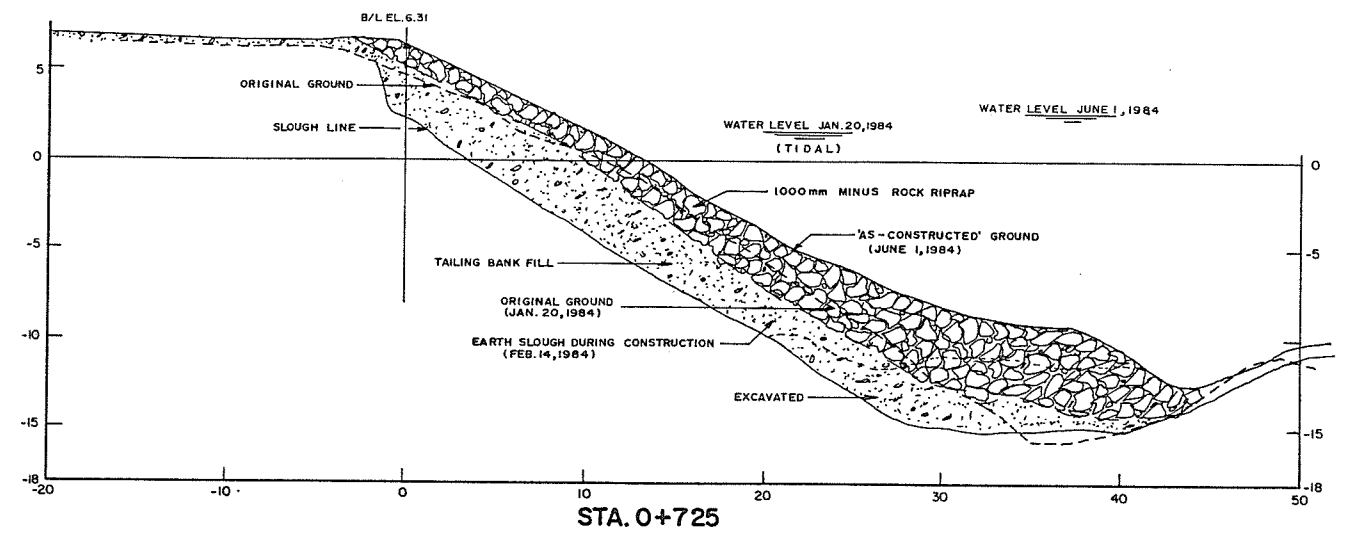
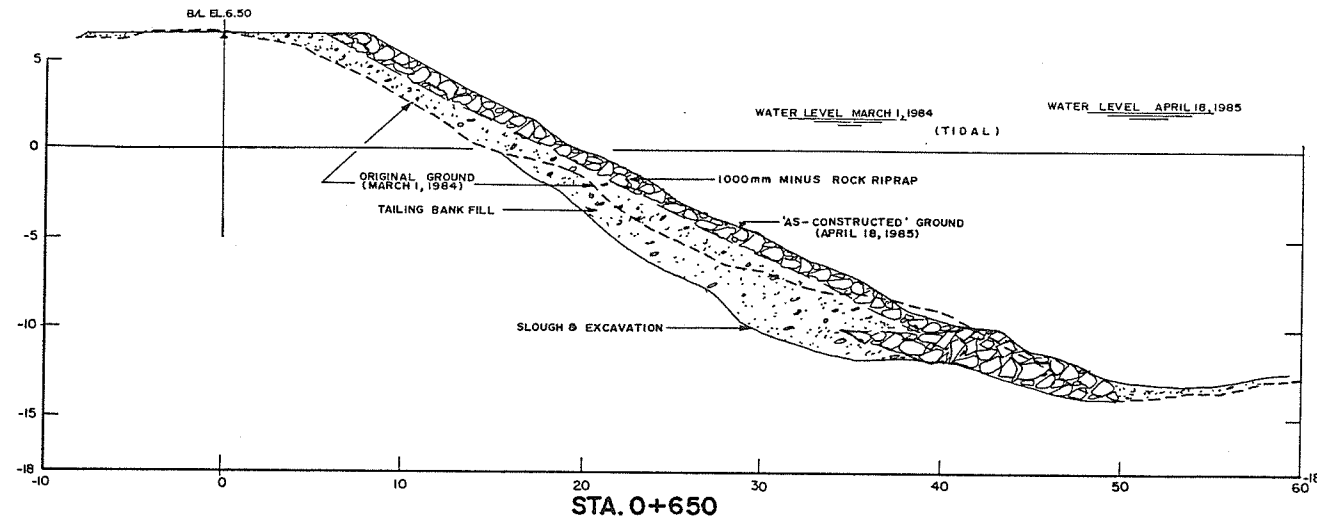


DESIGN DATA:
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 DESIGN OFF-SETS FROM BASELINE:

STATION	DISTANCE TO		TO E ELEVATION
	FINISHED BANK AT EL. 5.0m	OUTSIDE OF TOP OF TOE	
0+450	17.5	53.5	-10.0
0+475	15.9	51.9	-10.0
0+500	15.0	51.0	-10.0
0+525	16.0	52.0	-10.0
0+550	16.2	52.2	-10.0
0+575	15.4	53.4	-11.0

AS CONSTRUCTED

REVISIONS		RECOMMENDED	Province of British Columbia Ministry of Environment WATER MANAGEMENT BRANCH CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	FILE No.	SURVEYED
No.	DESCRIPTION	DATE		0281550-C22-6	Various
		DATE: Oct. 27, 1987	Project No. 4 DISTRICT OF MATSQUI Contract No. 6 BANK PROTECTION AT RIDGEDALE CROSS SECTIONS STA. 0+450 to STA. 0+575	DESIGNED	DATE
		DATE: Oct. 29, 1987		K.F. Bornemann	1983-1985
		APPROVED: [Signature] DIRECTOR		DRAWN	SCALE
		DATE: 7/23/1987		A.D.B. K.F.B.	As Shown
				DATE	DRAWING No.
				May 26, 1987	4804-6-19
				CHECKED	SHEET
					5 of 9

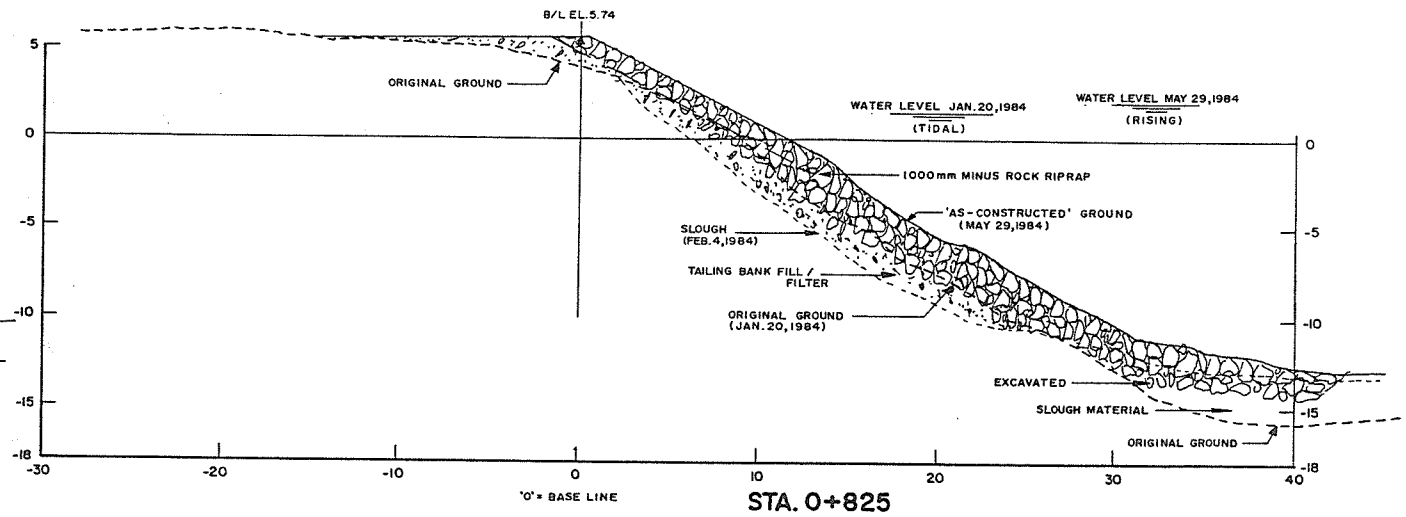
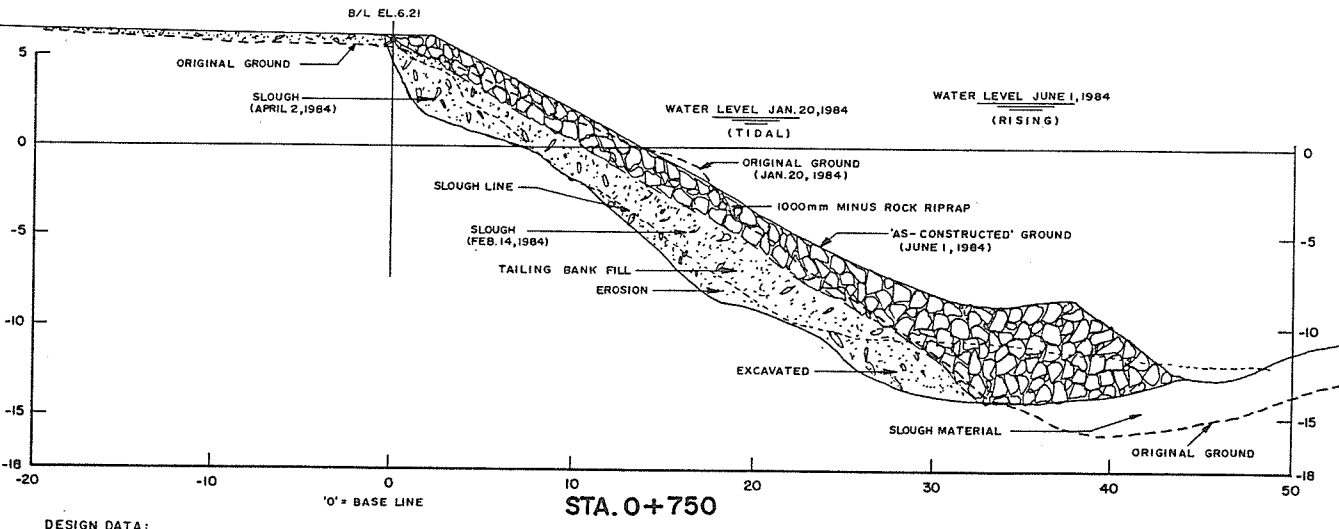
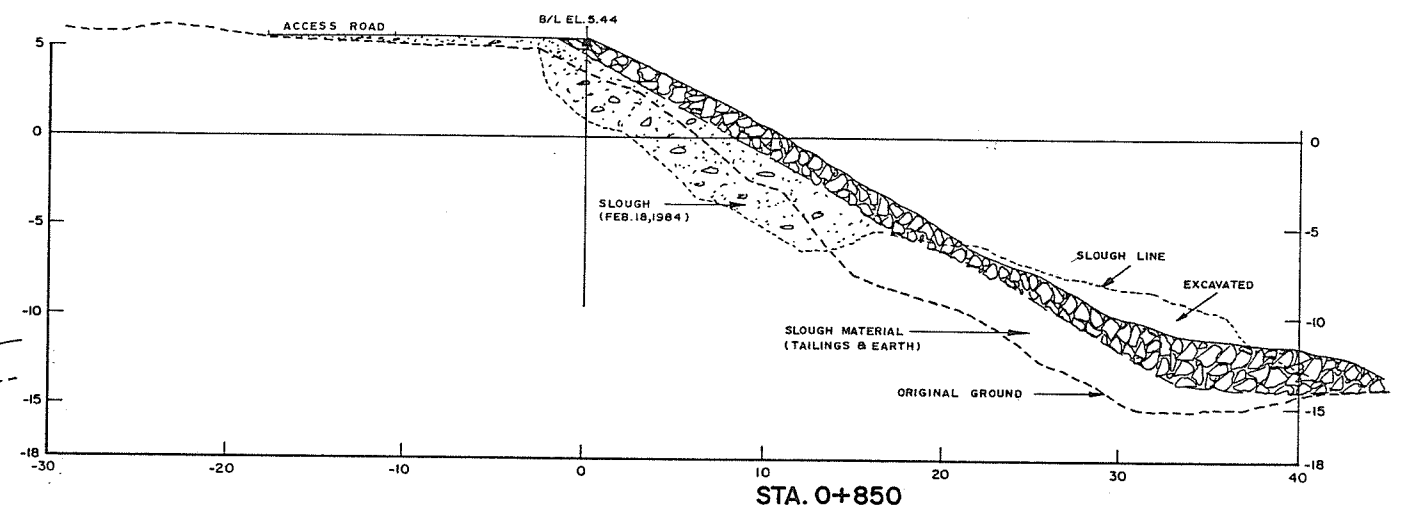
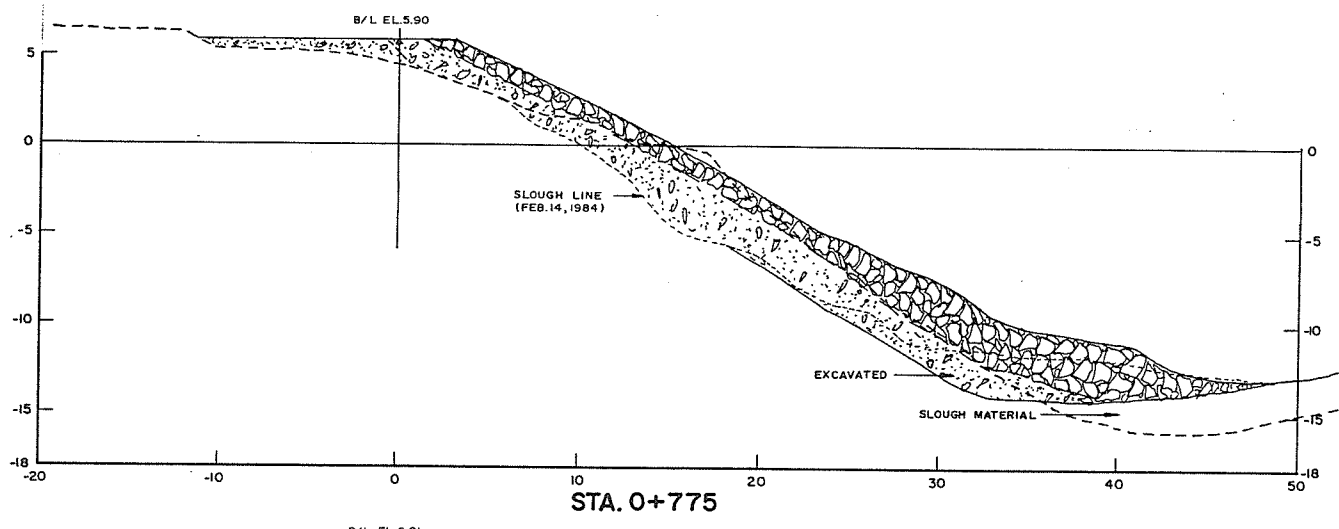
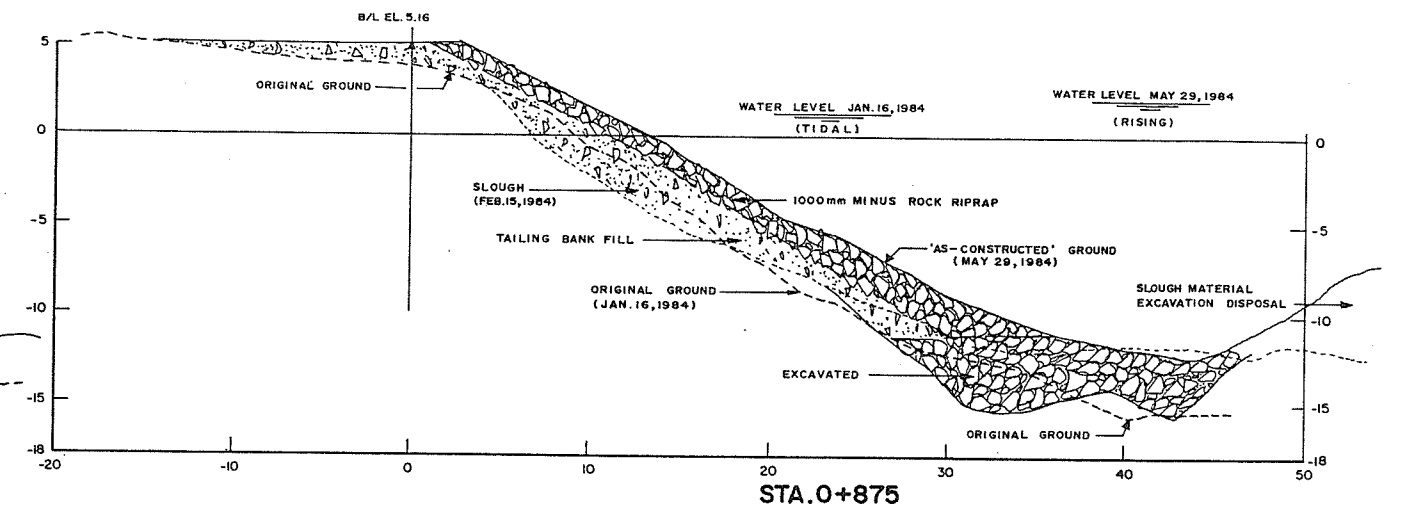
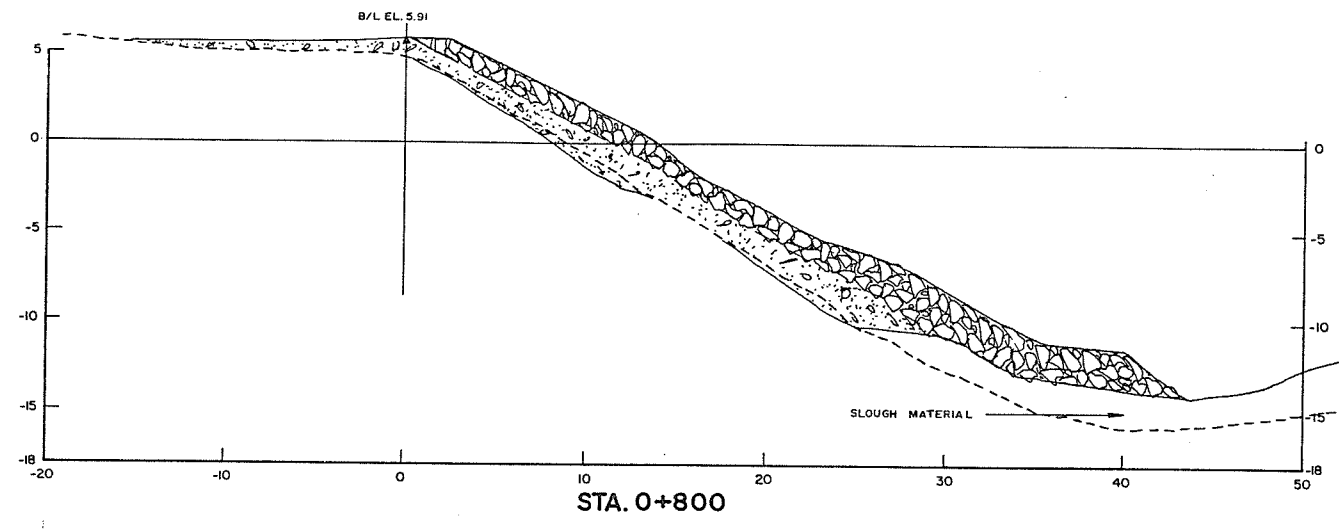


DESIGN DATA:
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 DESIGN OFF-SETS FROM BASELINE:

STATION	DISTANCE TO FINISHED BANK OUTSIDE OF AT EL. 5.0m	TOE ELEVATION	TOE ELEVATION
0+600	13.8	51.8	-11.0
0+625	12.2	50.2	-11.0
0+650	10.5	46.5	-10.0
0+675	5.9	41.9	-10.0
0+700	3.3	37.0	-10.0
0+725	3.0	36.5	-10.0

AS CONSTRUCTED

REVISIONS			RECOMMENDED	Province of British Columbia	FILE No.	SURVEYED
No.	DESCRIPTION	DATE	DATE	Ministry of Environment	0281550-C22-6	Various
			Oct. 27, 1987	WATER MANAGEMENT BRANCH <td></td> <td></td>		
			Oct. 29, 1987	CANADA-BRITISH COLUMBIA <td></td> <td></td>		
				FRASER RIVER FLOOD CONTROL 1968 AGREEMENT <td></td> <td></td>		
				Project No. 4 DISTRICT OF MATSQUI Contract No. 6 <td></td> <td></td>		
				BANK PROTECTION AT RIDGEDALE <td></td> <td></td>		
				CROSS SECTIONS <td></td> <td></td>		
				STA. 0+600 to STA. 0+725 <td></td> <td></td>		
				DESIGNED <td></td> <td></td>		
				K. F. Bornemann <td></td> <td></td>		
				DRAWN <td></td> <td></td>		
				A. D. B. & K. F. B. <td></td> <td></td>		
				DATE <td></td> <td></td>		
				May 26, 1987 <td></td> <td></td>		
				CHECKED <td></td> <td></td>		



DESIGN DATA:
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 1.75 HOR. TO 1 VERT. BELOW EL. 0.00 G.S.C.
 DESIGN OFF-SETS FROM BASELINE:

STATION	DISTANCE TO FINISHED BANK OUTSIDE OF AT EL. 5.0m	TOE ELEVATION
0+750	4.1	37.5
0+775	5.2	39.0
0+800	3.6	40.5
0+825	2.0	39.0
0+850	1.5	38.5
0+875	3.5	40.5

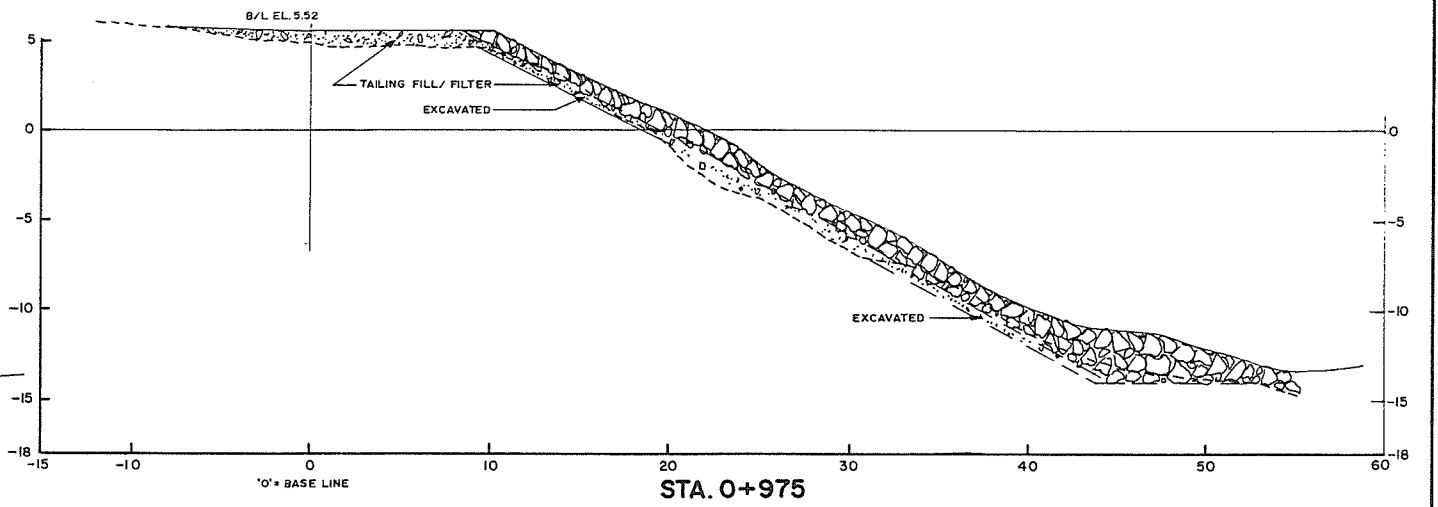
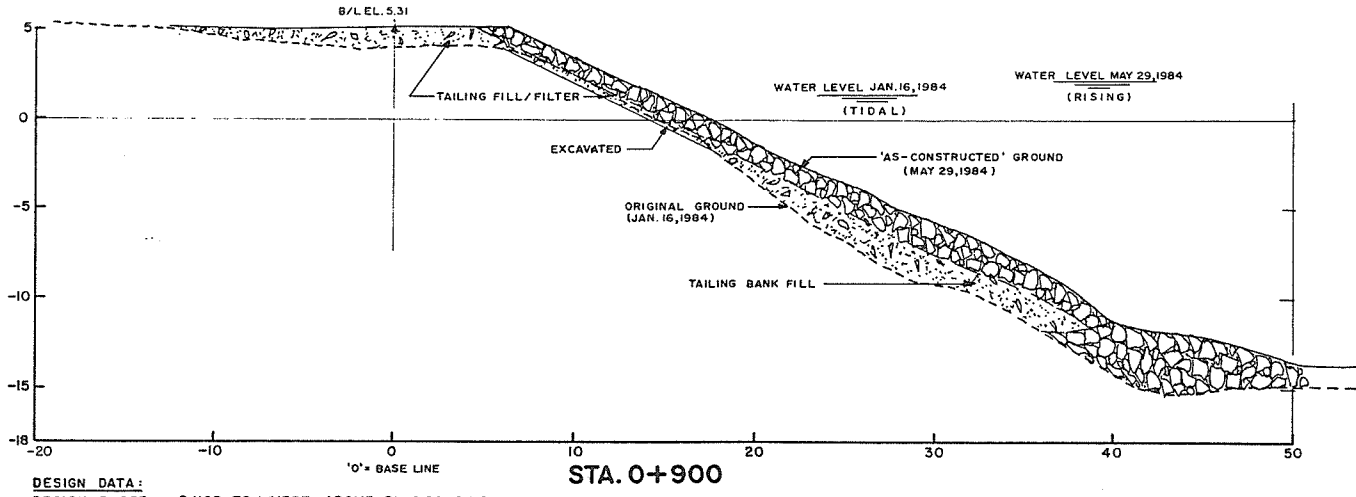
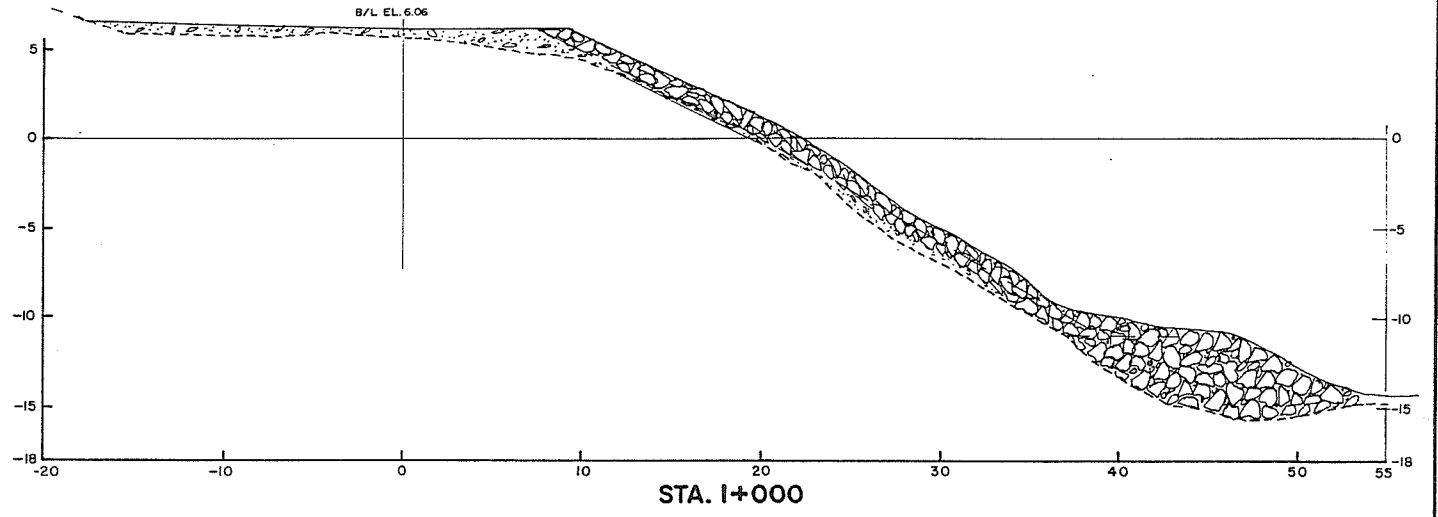
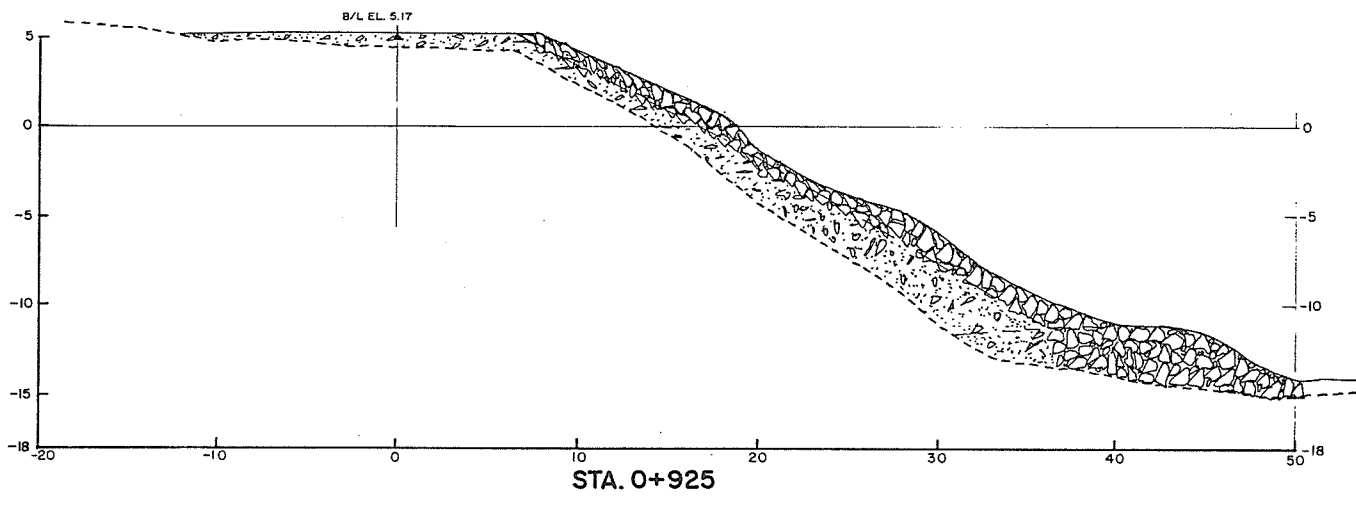
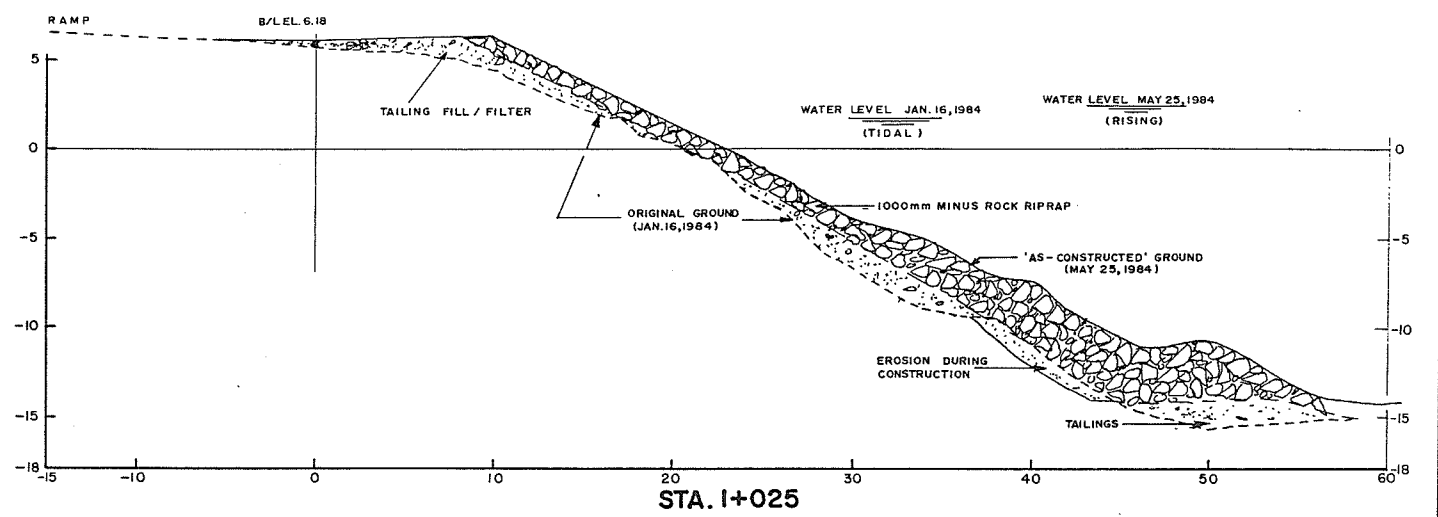
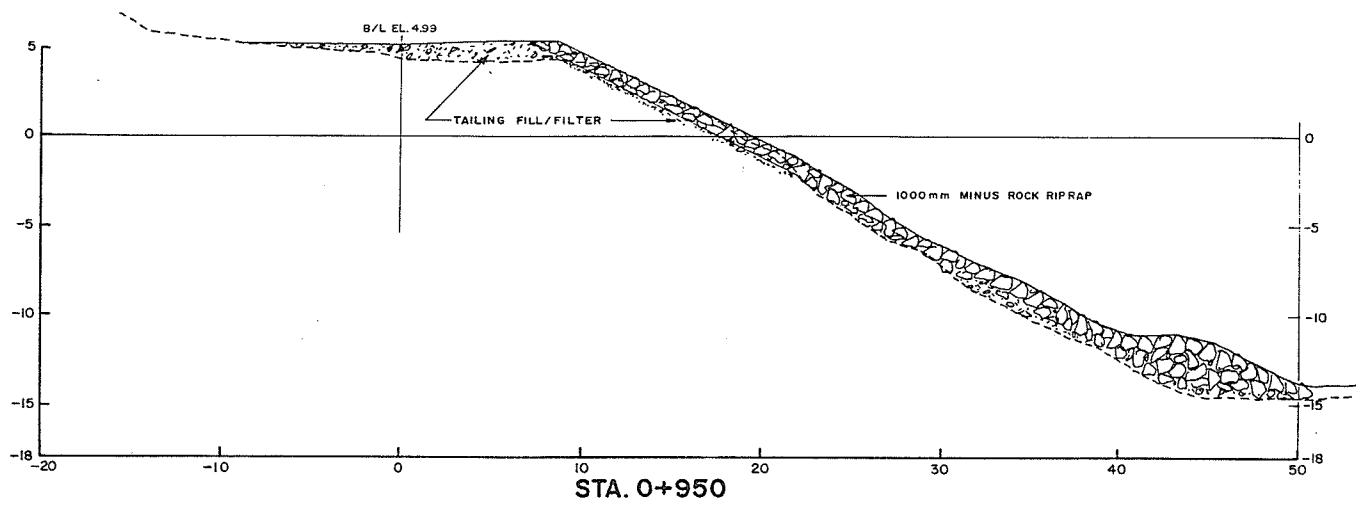
AS CONSTRUCTED

REVISIONS		
No.	DESCRIPTION	DATE

Province of British Columbia
 Ministry of Environment
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

Project No. 4 DISTRICT OF MATSQUI Contract No. 6
 BANK PROTECTION AT RIDGEDALE
 CROSS SECTIONS
 STA. 0+750 to STA. 0+875

FILE No. 0281550-C22-6	SURVEYED Various
DESIGNED K.F. Bornemann	DATE 1983 - 1984
DRAWN A.D.B. & K.F.B.	SCALE As Shown
DATE May 26, 1987	DRAWING No. 4804-6-21
CHECKED	SHEET 7 of 9



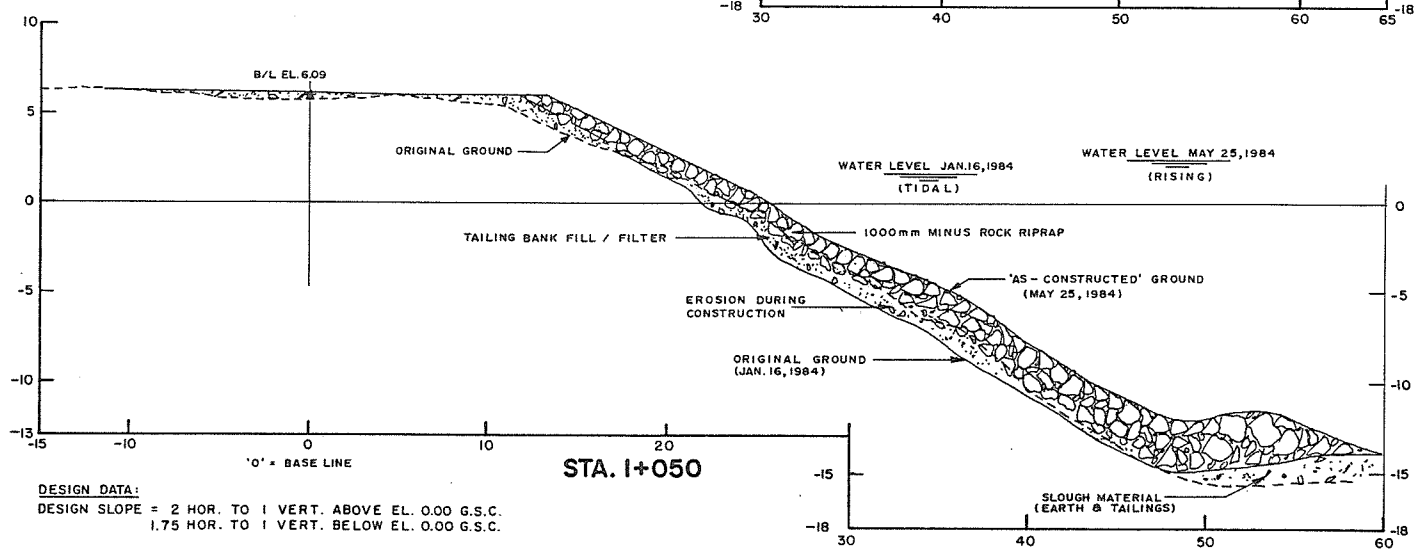
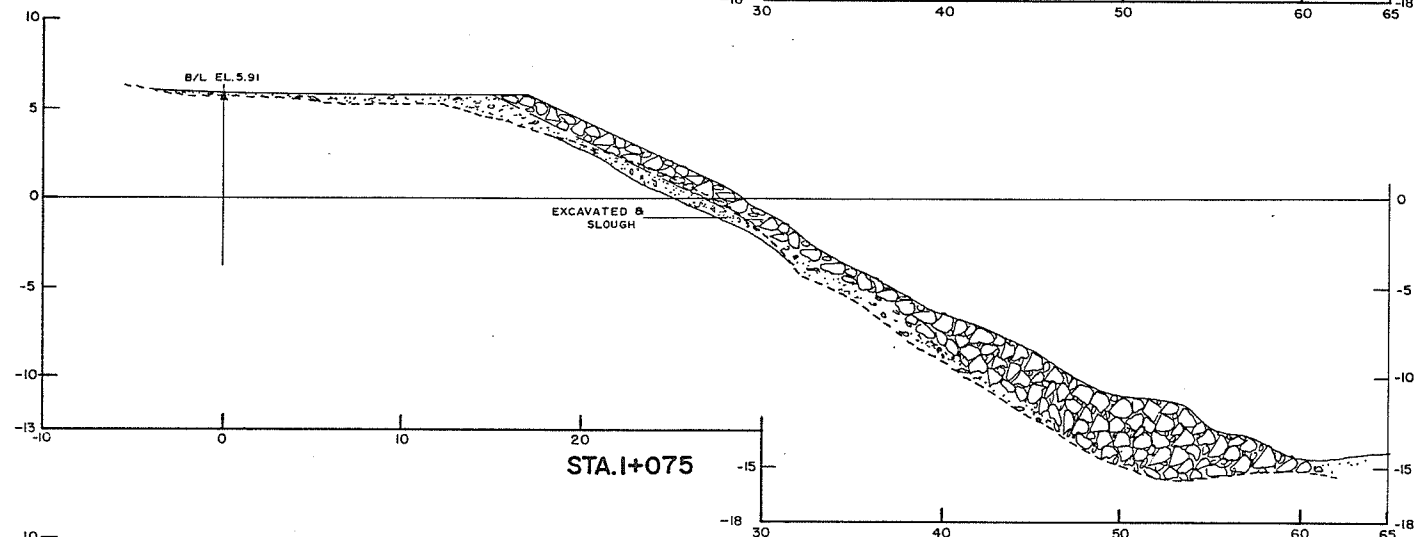
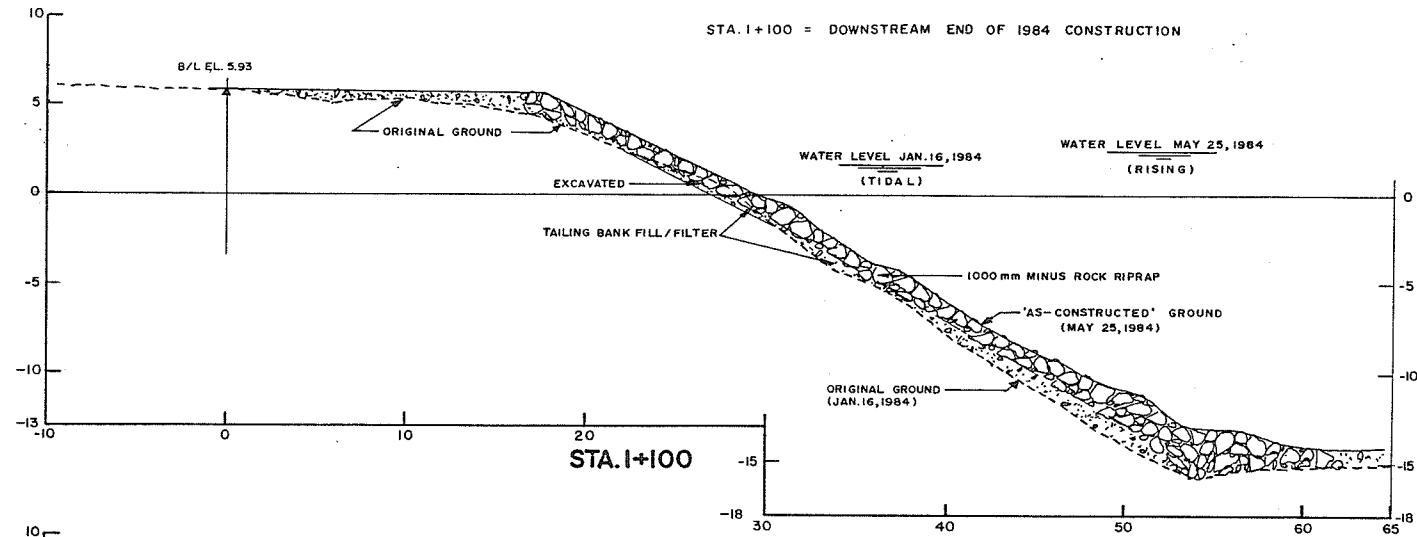
DESIGN DATA:
 DESIGN SLOPE - 2 HOR. TO 1 VERT. ABOVE EL. 0.00 G.S.C.
 - 1.75 HOR. TO 1 VERT. BELOW EL. 0.00 G.S.C.

DESIGN OFF-SETS FROM BASELINE:

STATION	DISTANCE TO FINISHED BANK OUTSIDE OF AT EL. 5.0m	TO E ELEVATION TOP OF TOE	TO E ELEVATION
0+900	7.0	44.0	- 12.0
0+925	9.0	45.0	- 11.5
0+950	10.75	46.0	- 11.0
0+975	12.0	47.0	- 11.0
1+000	12.0	49.0	- 12.0
1+025	13.0	50.0	- 12.0

AS CONSTRUCTED

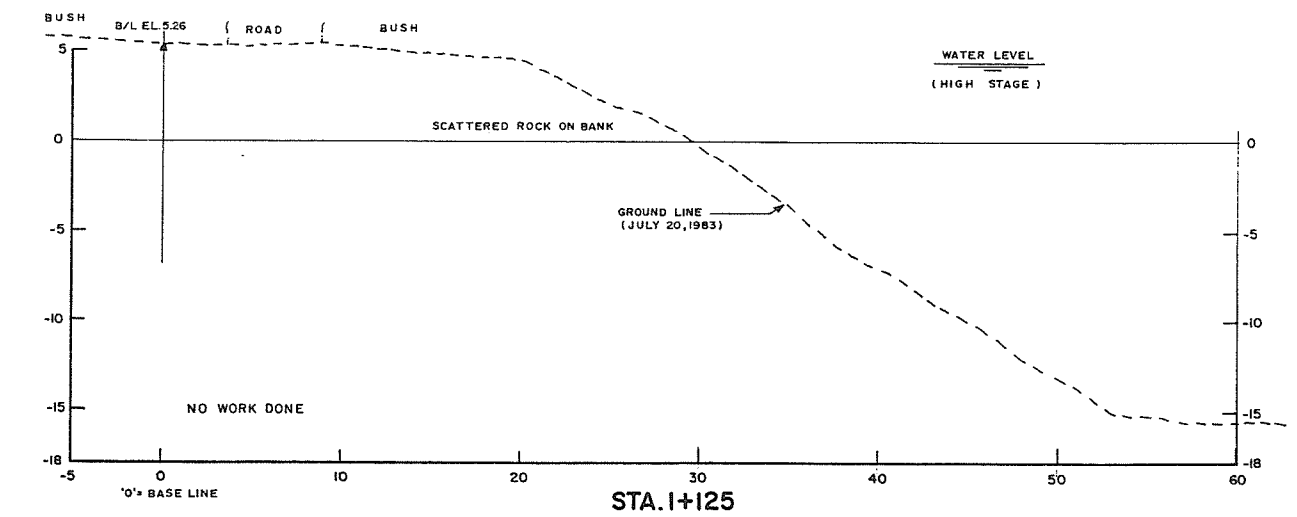
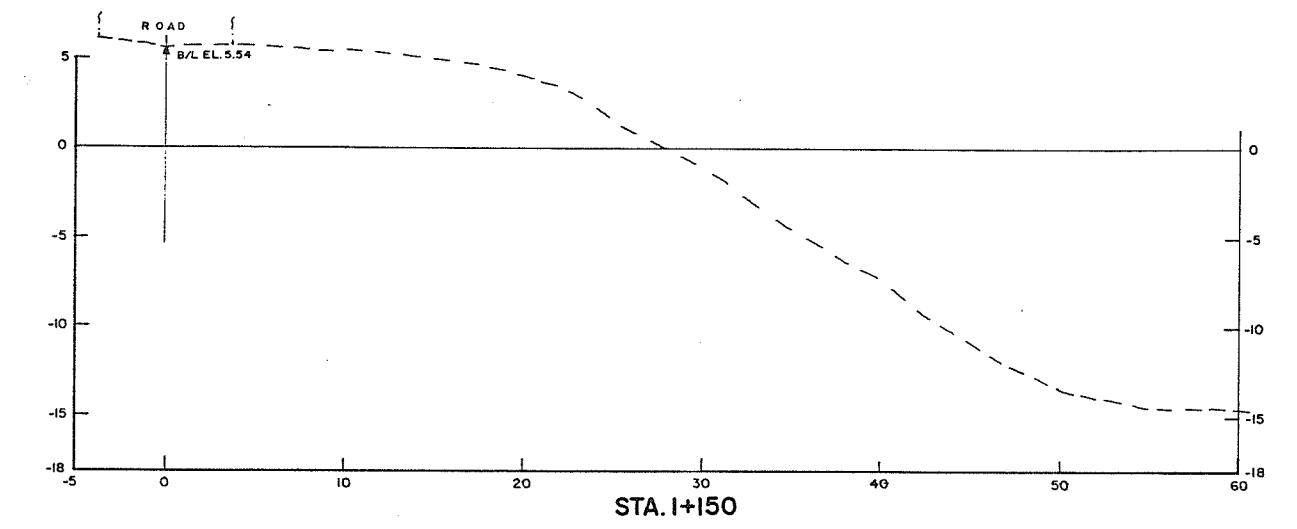
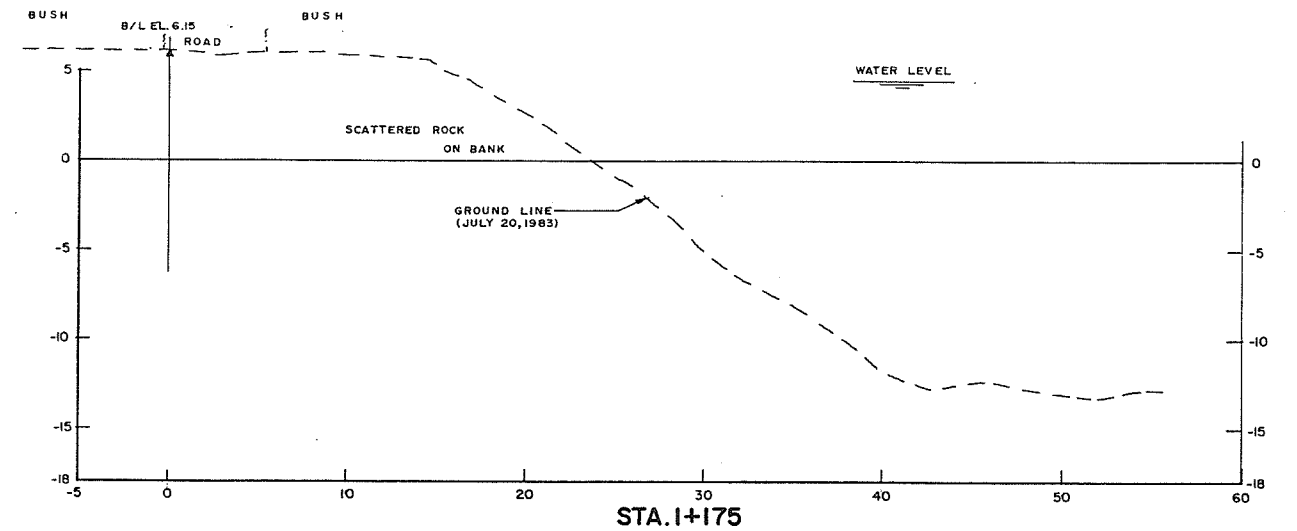
REVISIONS			RECOMMENDED	Province of British Columbia	FILE No.	SURVEYED
No.	DESCRIPTION	DATE	DATE	Ministry of Environment	0281550-C22-6	Various
			Oct. 27, 1987 <td>WATER MANAGEMENT BRANCH <td></td> <td>1983 - 1984 </td></td>	WATER MANAGEMENT BRANCH <td></td> <td>1983 - 1984 </td>		1983 - 1984
			<td>CANADA-BRITISH COLUMBIA <td></td> <td>SCALE As Shown </td></td>	CANADA-BRITISH COLUMBIA <td></td> <td>SCALE As Shown </td>		SCALE As Shown
			<td>FRASER RIVER FLOOD CONTROL 1968 AGREEMENT <td></td> <td>DRAWING No. 4804-6-22 </td></td>	FRASER RIVER FLOOD CONTROL 1968 AGREEMENT <td></td> <td>DRAWING No. 4804-6-22 </td>		DRAWING No. 4804-6-22
			<td>Project No. 4 DISTRICT OF MATSQUI Contract No. 6 <td></td> <td>SHEET 8 of 9 </td></td>	Project No. 4 DISTRICT OF MATSQUI Contract No. 6 <td></td> <td>SHEET 8 of 9 </td>		SHEET 8 of 9
			<td>BANK PROTECTION AT RIDGEDALE <td></td> <td></td> </td>	BANK PROTECTION AT RIDGEDALE <td></td> <td></td>		
			<td>CROSS SECTIONS <td></td> <td></td> </td>	CROSS SECTIONS <td></td> <td></td>		
			<td>STA. 0+900 to STA. 1+025 <td></td> <td></td> </td>	STA. 0+900 to STA. 1+025 <td></td> <td></td>		



DESIGN DATA:
 DESIGN SLOPE = 2 HOR. TO 1 VERT. ABOVE EL. 0.00 G.S.C.
 1.75 HOR. TO 1 VERT. BELOW EL. 0.00 G.S.C.

DESIGN OFF-SETS FROM BASELINE:

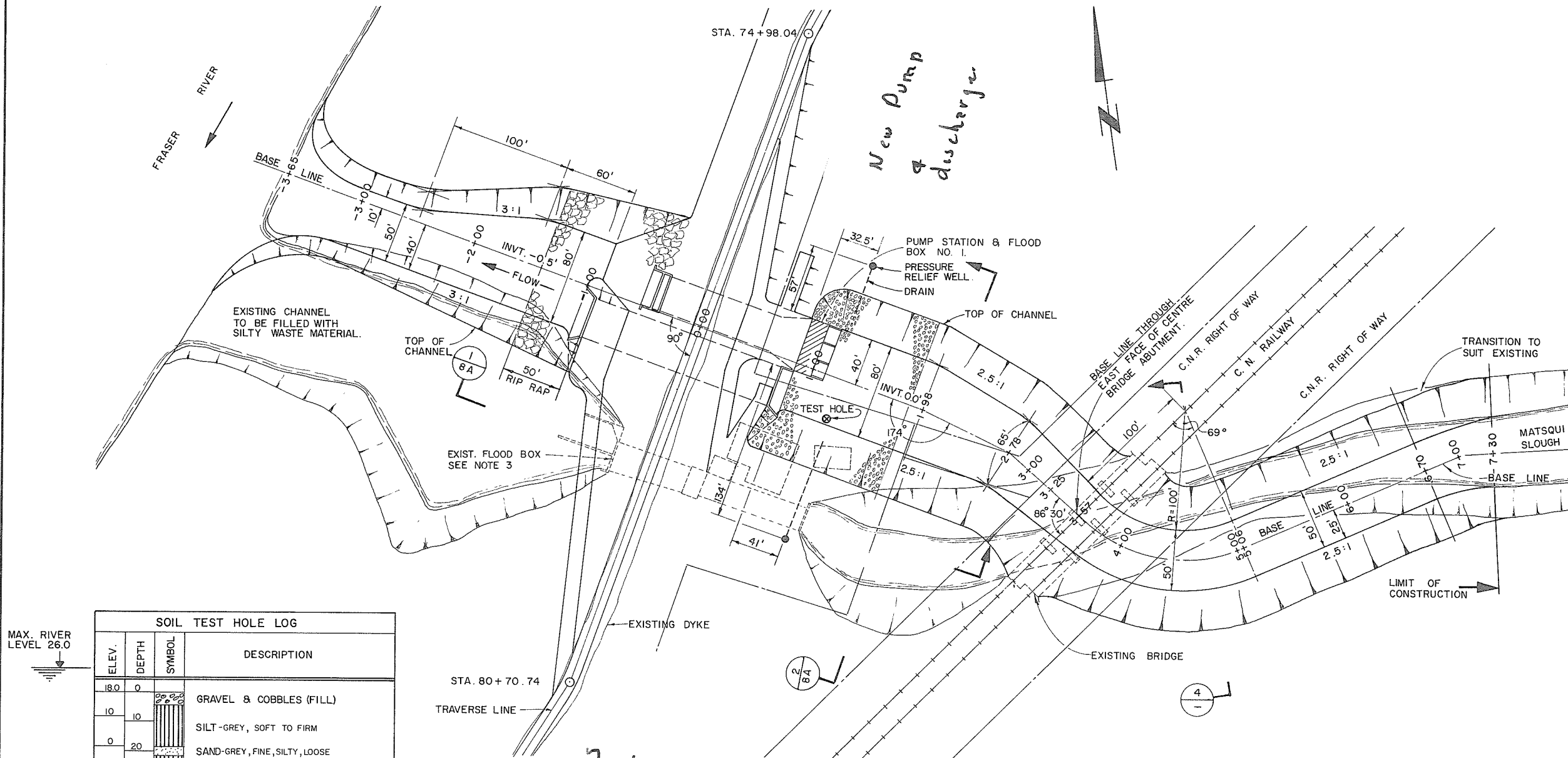
STATION	DISTANCE TO FINISHED BANK OUTSIDE OF AT EL. 5.0 m	TOE ELEVATION	TOE ELEVATION
1+050	16.0	53.0	-12.0
1+075	19.0	56.0	-12.0
1+100	20.0	57.0	-12.0



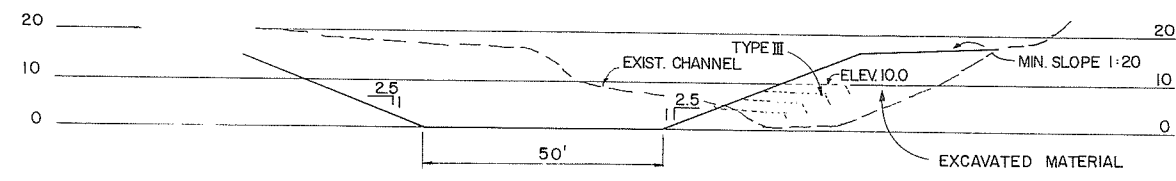
AS CONSTRUCTED

REVISIONS			RECOMMENDED	Province of British Columbia	FILE No.	SURVEYED
No.	DESCRIPTION	DATE	DATE	Ministry of Environment	0281550-C22-6	Various
			Oct. 27, 1987 <td>WATER MANAGEMENT BRANCH <td></td> <td>DATE 1983-1984</td> </td>	WATER MANAGEMENT BRANCH <td></td> <td>DATE 1983-1984</td>		DATE 1983-1984
			Nov. 29, 1987 <td>CANADA-BRITISH COLUMBIA <td></td> <td>SCALE As Shown</td> </td>	CANADA-BRITISH COLUMBIA <td></td> <td>SCALE As Shown</td>		SCALE As Shown
			Nov. 23, 1987 <td>FRASER RIVER FLOOD CONTROL 1968 AGREEMENT <td></td> <td>DRAWING No. 4804-6-23</td> </td>	FRASER RIVER FLOOD CONTROL 1968 AGREEMENT <td></td> <td>DRAWING No. 4804-6-23</td>		DRAWING No. 4804-6-23
				Project No. 4 DISTRICT OF MATSQUI Contract No. 6 <td></td> <td>SHEET 9 of 9</td>		SHEET 9 of 9
				BANK PROTECTION AT RIDGEDALE <td></td> <td></td>		
				CROSS SECTIONS <td></td> <td></td>		
				STA. 1+050 to STA. 1+175 <td></td> <td></td>		

INTERNAL DRAINAGE



SOIL TEST HOLE LOG			
ELEV.	DEPTH	SYMBOL	DESCRIPTION
18.0	0		GRAVEL & COBBLES (FILL)
10	10		SILT-GREY, SOFT TO FIRM
0	20		SAND-GREY, FINE, SILTY, LOOSE
	30		SILT-GREY, SANDY, NON PLASTIC, LOOSE
	40		
	50		
	60		SAND-GREY, FINE, CLEAN, MEDIUM DENSE
	70		
	80		
	90		SILT - GREY, STIFF, 1/8" LAYERS SANDY SILT
	100		SAND-GREY, FINE, SILTY, MEDIUM DENSE



TYPICAL CHANNEL CROSS-SECTION

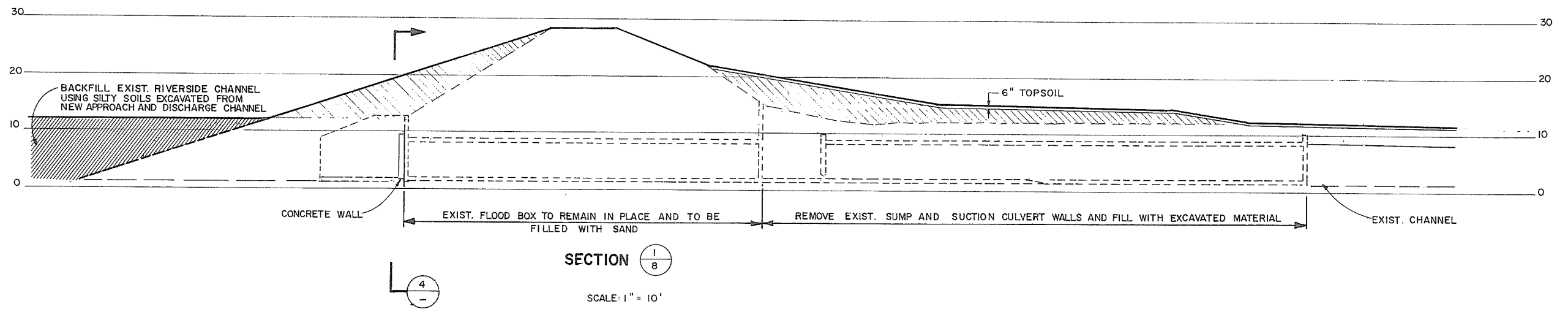
SECTION 4

SCALE: 1" = 20'

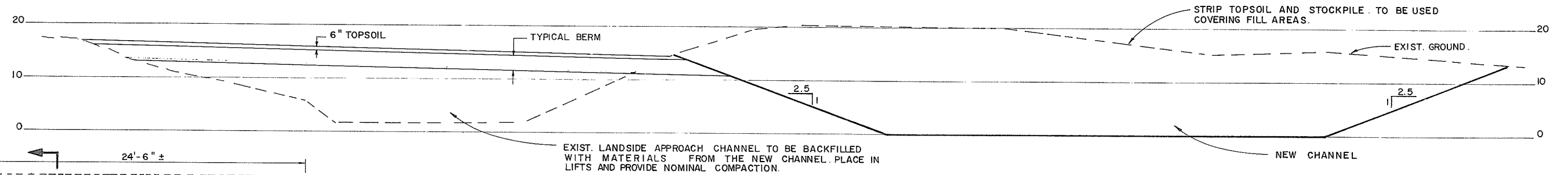
NOTES

- 0+00 BASE LINE EQUALS 77+58 CENTER LINE NEW DYKE.
- FOR PUMP STATION AND FLOOD BOX DETAILS SEE DRAWING 4804-3-10
- FOR EXIST. FLOOD BOX TREATMENT SEE DWG. 4804-3-8A

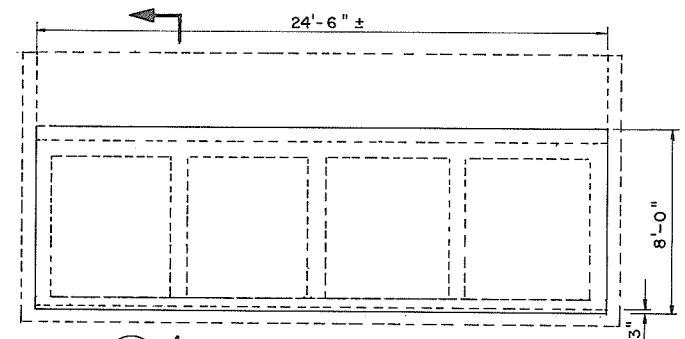
PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-8	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI				DESIGN: [Signature] DRAWN: [Signature] CHECKED: [Signature] DATE: 19 MAR 1972 FOR THE PROVINCE OF BRITISH COLUMBIA	
TITLE: SITE PLAN & CHANNEL ALIGNMENT FOR PUMP STATION NO. 1 MATSQUI SLOUGH.				SCALE: 1" = 50' or as shown DATE: MAR 1972 APPROVED: [Signature] DRAWING NO. 4804-3-8 REV. 4	
REVISIONS NO. DATE BY 1 5-9-73 V 2 11-12-72 V.W. 3 11-12-72 V.W. 4 27-11-72 V.W.		AS CONSTRUCTED. GENERAL REVISION SECTION 5 DELETED, SECTION 4 REVISED CROSS-SECTIONS ADDED		ENG. [Signature]	



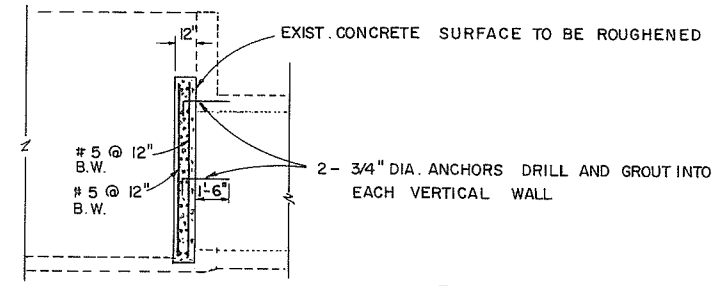
SECTION $\frac{1}{8}$
SCALE: 1" = 10'



SECTION $\frac{2}{8}$
SCALE: 1" = 10'



SECTION $\frac{4}{4}$
SCALE: 1" = 4'

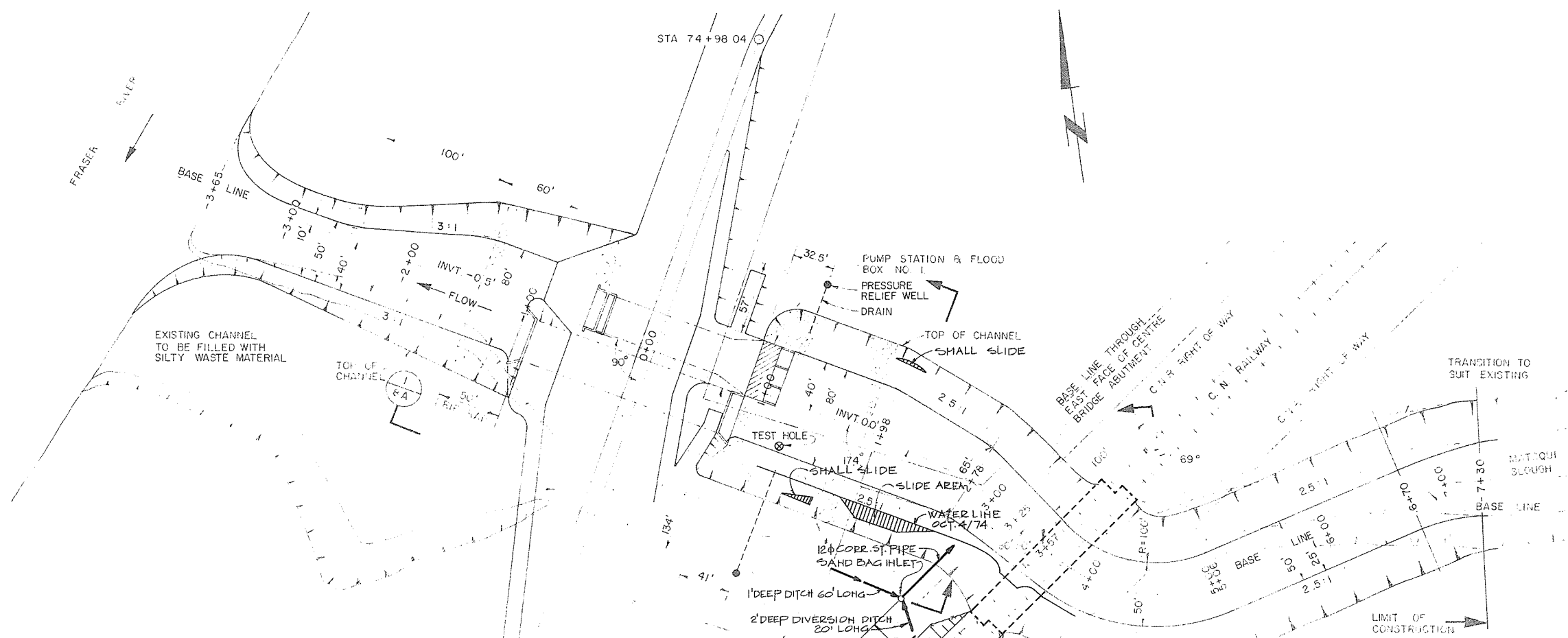


SECTION $\frac{5}{5}$
SCALE: 1" = 4'

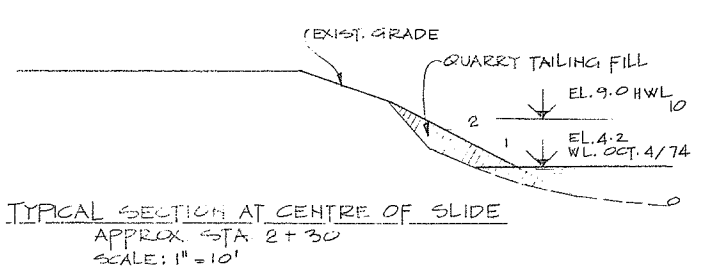
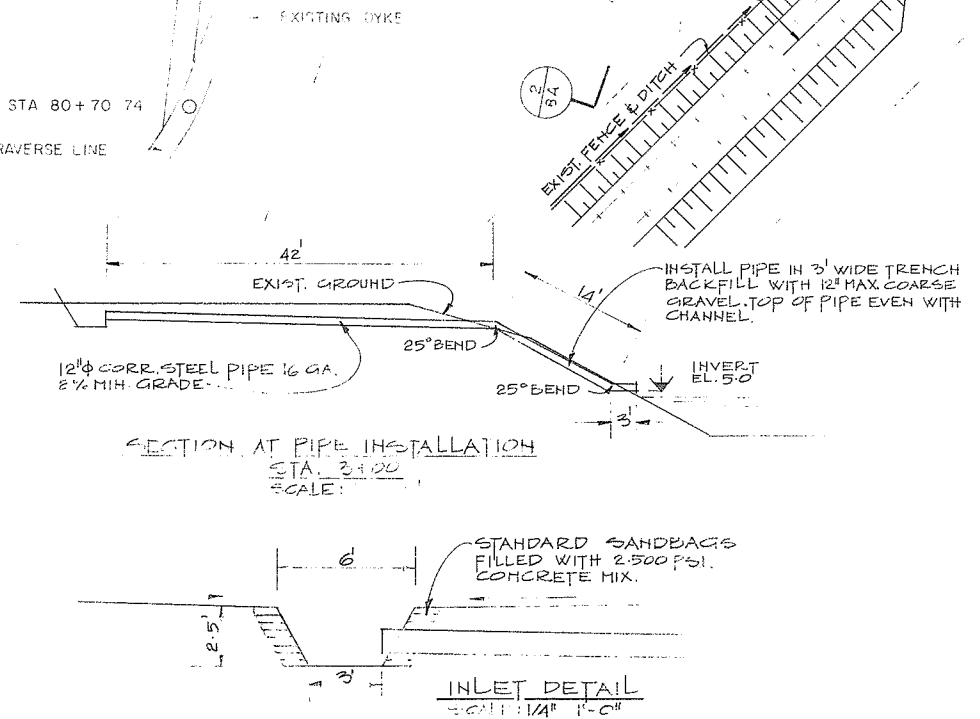
NOTE: SAME TREATMENT APPLIES TO ORIGINAL FLOOD BOX AT McLENNAN CREEK.

2096

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-8A	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Consulting Engineers</small> VANCOUVER, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1969 AGREEMENT				DESIGN <i>W. Kelly</i> SCALE AS SHOWN DRAWN <i>W. Kelly</i> DATE 2.5.1973 CHECKED <i>W. Kelly</i> APPROVED	
DATE APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA				TITLE TREATMENT OF ORIGINAL FLOOD BOX MATSQUI SLOUGH	
NO. 1 DATE 5.9.73 BY V.W.		AS CONSTRUCTED		REVISIONS ENG.	

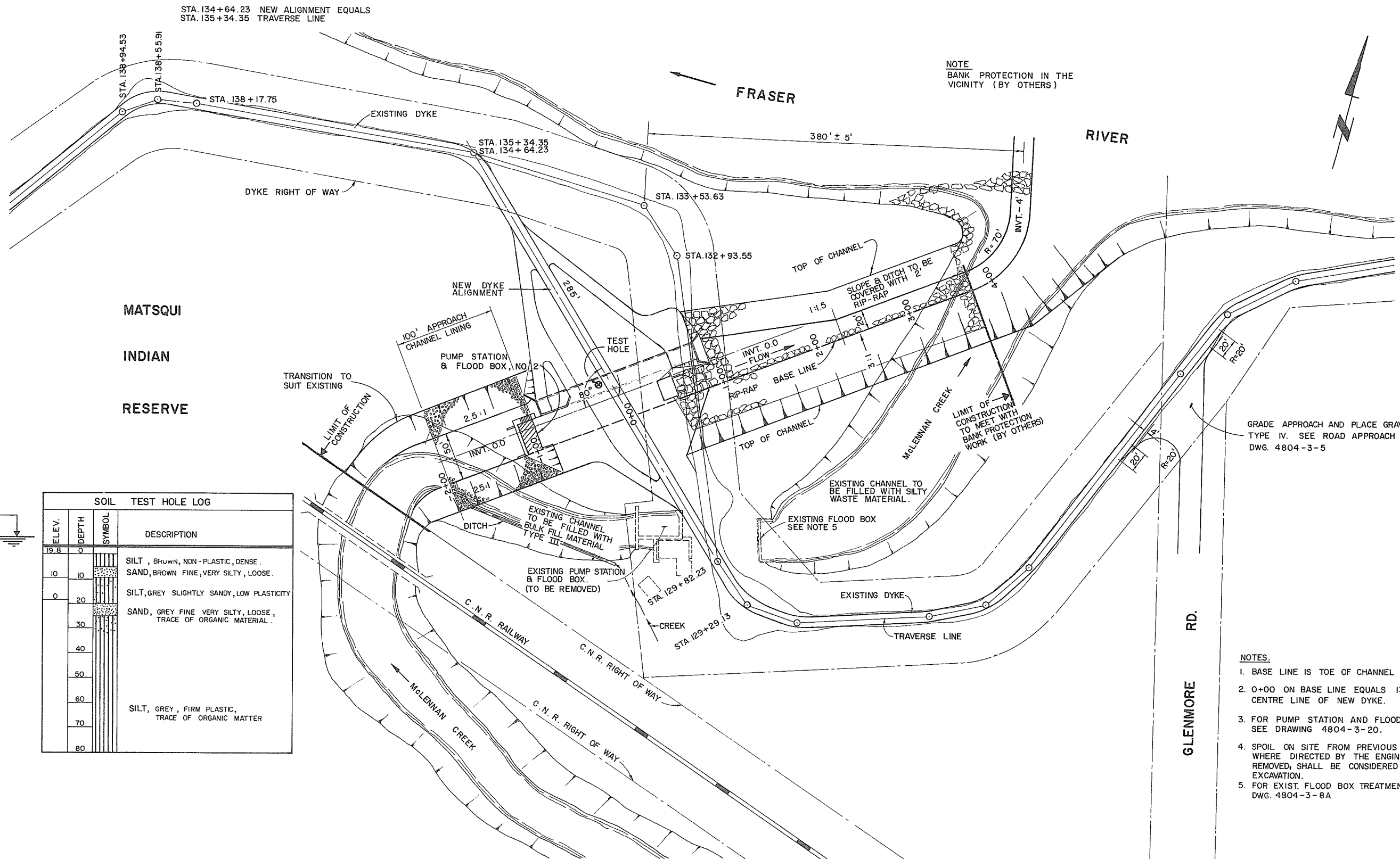


SOIL TEST HOLE LOG			
ELEV.	DEPTH	SYMBOL	DESCRIPTION
18.0	0		GRAVEL & COBBLES (FILL)
10	10		SILT-GREY, SOFT TO FIRM
0	20		SAND-GREY, FINE, SILTY, LOOSE
	30		SILT-GREY, SANDY, NON PLASTIC, LOOSE
	40		
	50		
	60		SAND - GREY, FINE, CLEAN, MEDIUM DENSE
	70		
	80		
	90		SILT - GREY, STIFF, 1/8" LAYERS SANDY SILT
	100		SAND - GREY, FINE, SILTY, MEDIUM DENSE



- NOTES
- 0+00 BASE LINE EQUALS 77+58 CENTER LINE NEW DYKE
 - FOR PUMP STATION AND FLOOD BOX DETAILS SEE DRAWING 4804-3-10

AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Consulting Engineers</small>	I V.V. AS CONSTRUCTED 22.6.74 NO. BY REVISIONS DATE	RECOMMENDED..... CHIEF, PROJECTS DIV.	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS AND WATER RESOURCES WATER INVESTIGATIONS SERVICE CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED W.J.H.	SURVEYED
		DATE.....		DRAWN I.K.	DATE
A.E.S.L. No. 4064 - 933 - 101	NO. BY REVISIONS DATE	APPROVED..... CHIEF ENGINEER	INLET CHANNEL MODIFICATION FOR PUMP STATION NO. 1 MATSQUI SLOUGH	CHECKED A.T.S.	FILE NO.
DATE.....	DATE	DATE.....		SCALE 1" = 50'	DATE OCT. 15/74
			DWG. NO. 4804-3-8B	SHEET 1 OF 2 SHEETS	



SOIL TEST HOLE LOG			
ELEV.	DEPTH	SYMBOL	DESCRIPTION
19.8	0		SILT, BROWN, NON-PLASTIC, DENSE.
	10		SAND, BROWN FINE, VERY SILTY, LOOSE.
	20		SILT, GREY SLIGHTLY SANDY, LOW PLASTICITY
	30		SAND, GREY FINE, VERY SILTY, LOOSE, TRACE OF ORGANIC MATERIAL.
	40		
	50		
	60		
	70		SILT, GREY, FIRM PLASTIC, TRACE OF ORGANIC MATTER
	80		

MAX. RIVER LEVEL 25.5

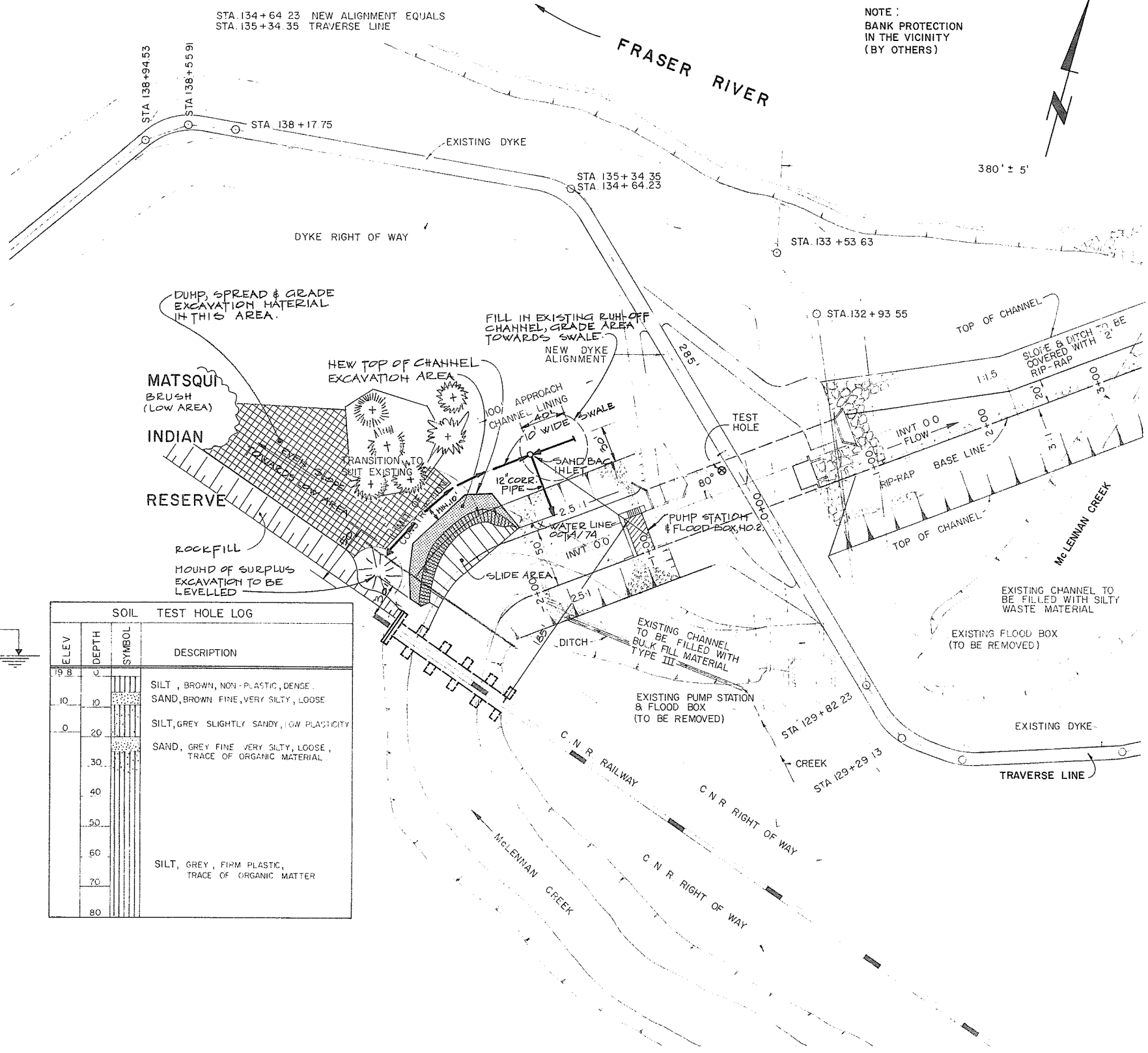
GRADE APPROACH AND PLACE GRAVEL TYPE IV. SEE ROAD APPROACH DETAIL DWG. 4804-3-5

- NOTES.
1. BASE LINE IS TOE OF CHANNEL SOUTH SIDE.
 2. 0+00 ON BASE LINE EQUALS 131+52.3 CENTRE LINE OF NEW DYKE.
 3. FOR PUMP STATION AND FLOOD BOX DETAILS SEE DRAWING 4804-3-20.
 4. SPOIL ON SITE FROM PREVIOUS CONTRACT WHERE DIRECTED BY THE ENGINEER TO BE REMOVED, SHALL BE CONSIDERED AS COMMON EXCAVATION.
 5. FOR EXIST. FLOOD BOX TREATMENT SEE DWG. 4804-3-8A

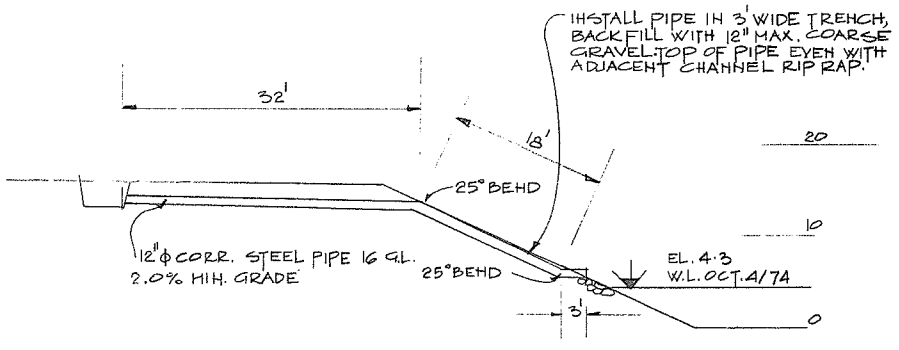
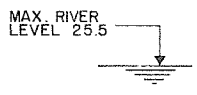
0098

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-9
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Consulting Engineers</small> VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE SITE PLAN & CHANNEL ALIGNMENT FOR PUMP STATION NO. 2. McLENNAN CREEK		DESIGN <i>ZRP</i> DRAWN <i>ZRP</i> CHECKED <i>ZRP</i> DATE 19 MAY 1972 APPROVED <i>out</i> DATE 19 MAY 1972 SCALE 1" = 50' DATE FEB. 1972 APPROVED <i>out</i> DRAWING NO. 4804-3-9 REV. 1

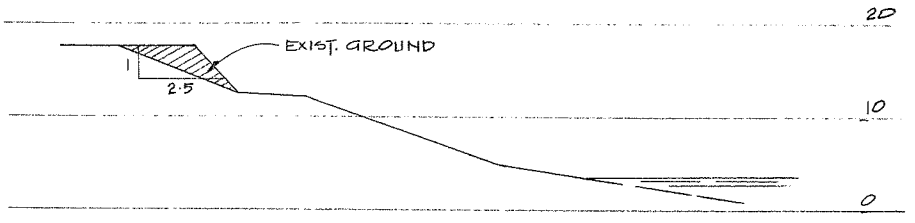
1	5-973	AS CONSTRUCTED	ENG.
NO.	DATE	BY	REVISIONS



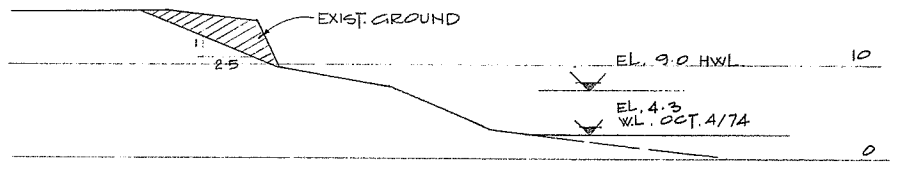
ELEV	DEPTH	SYMBOL	DESCRIPTION
19.8	0		SILT, BROWN, NON-PLASTIC, DENSE.
10	10		SAND, BROWN FINE, VERY SILTY, LOOSE
0	20		SILT, GREY SLIGHTLY SANDY, LOW PLASTICITY
	30		SAND, GREY FINE VERY SILTY, LOOSE, TRACE OF ORGANIC MATERIAL
	40		
	50		
	60		
	70		SILT, GREY, FIRM PLASTIC, TRACE OF ORGANIC MATTER
	80		



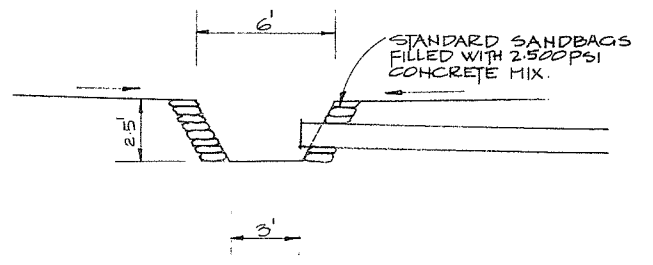
SECTION AT PIPE INSTALLATION
SCALE: 1" = 10'



TYPICAL SECTION AT CENTRE OF SLIDE
SCALE: 1" = 10'

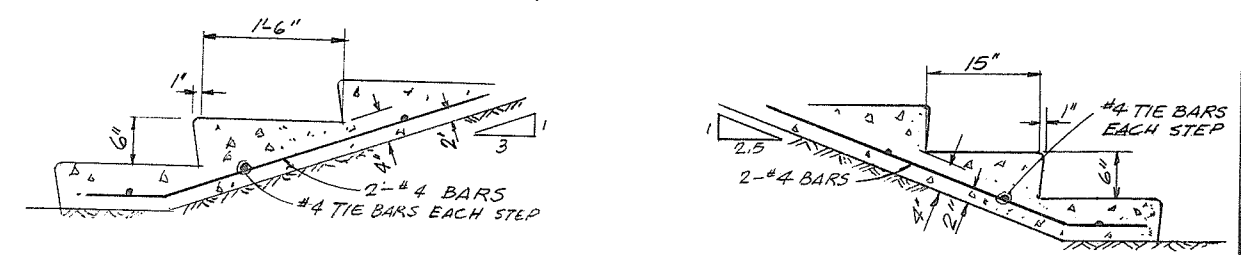
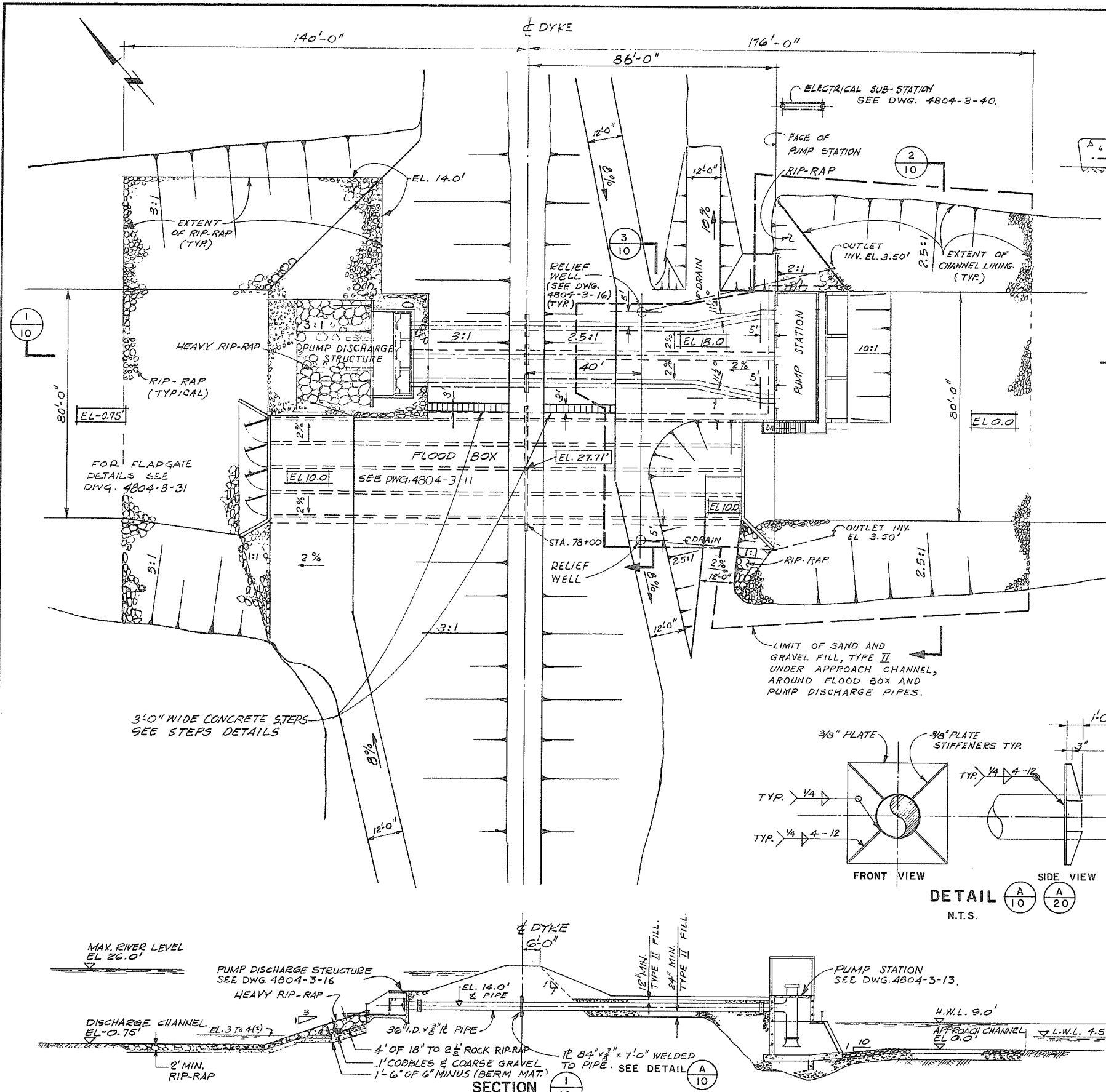


TYPICAL SECTION NEAR CHR R/W
SCALE: 1" = 10'

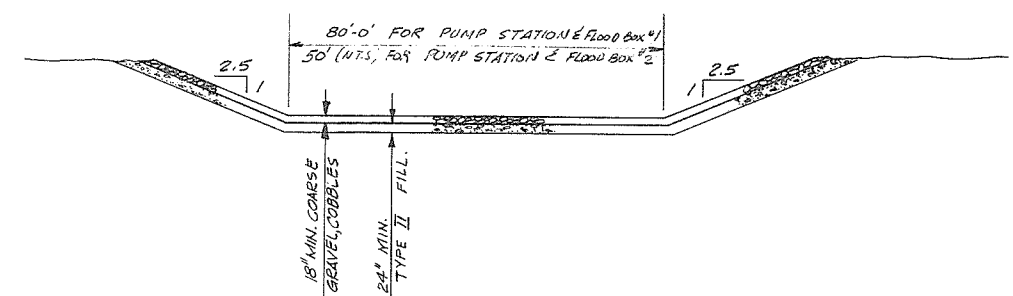


INLET DETAIL
SCALE: 1/4" = 1'-0"

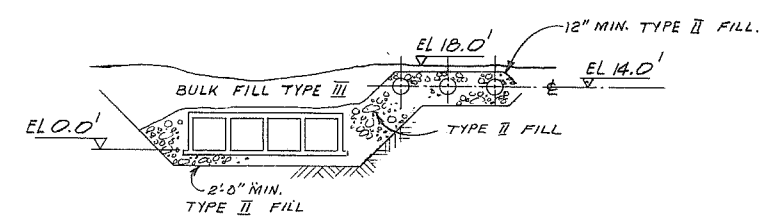
AESL <small>Consulting Engineers</small> ASSOCIATED ENGINEERING SERVICES LTD. A.E.S.L. No. 4064-933-102	I.V.W. NO. BY	AS CONSTRUCTED	22.6.78	REVISIONS	DATE	RECOMMENDED <small>CHIEF, PROJECTS DIV.</small> DATE..... APPROVED..... <small>CHIEF ENGINEER</small> DATE.....	BRITISH COLUMBIA DEPARTMENT OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED W.D.H. DRAWN L.K. CHECKED A.T.S. SCALE 1" = 50' DWG. NO. 4804-3-9A	SURVEYED DATE..... FILE NO. DATE OCT. 15/74 SHEET 2 OF 2 SHEETS
		INLET CHANNEL MODIFICATION FOR PUMP STATION NO. 2 McLENNAN CREEK							



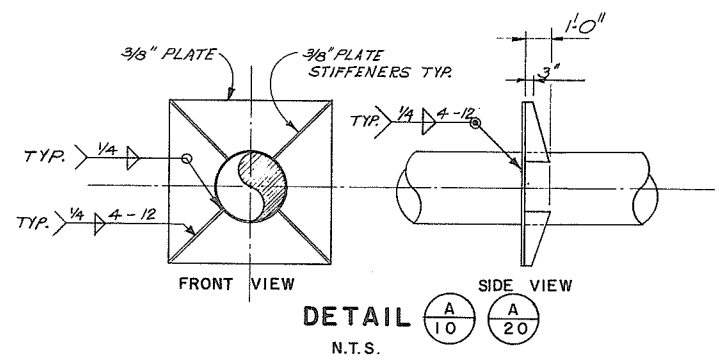
CONCRETE STEPS DETAILS
SCALE: 1" = 1'-0"



SECTION 2/10 2/20

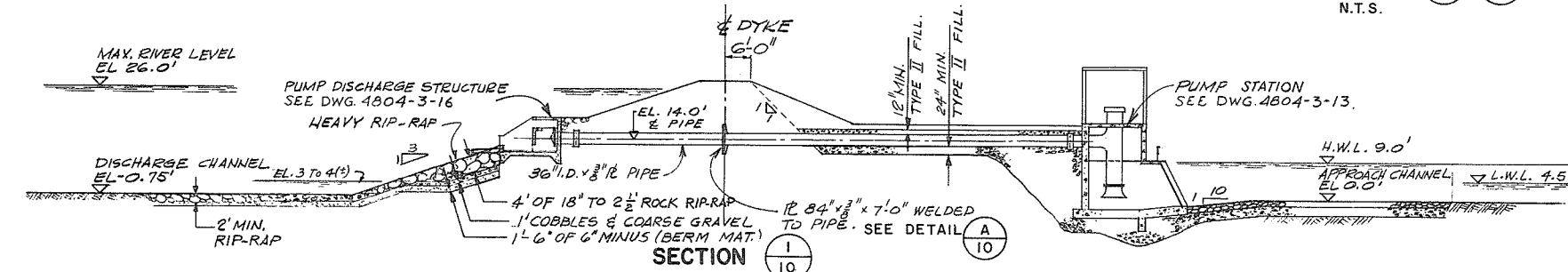


SECTION 3/10



DETAIL A/10 A/20
N.T.S.

- GENERAL NOTES:**
- BEFORE PLACING CONCRETE THE CONTRACTOR SHALL EXAMINE ALL APPLICABLE DRAWINGS FOR ANCHOR BOLTS, INSERTS, BRICK TIES, & OTHER FASTENINGS.
 - FOR WATERSTOPS CONVERGING AT ONE POINT SEE DS-S-615.
 - FOR DYKE FILL MATERIALS SEE DRAWING 4804-3-4.
 - TEMPORARY (FOR CONSTRUCTION) EMBANKMENT SLOPES SHALL BE A MINIMUM OF 3:1 BELOW WATERTABLE AND 1.5:1 ABOVE WATERTABLE.
 - L.W.L. REFERS TO THE PUMP CUT OFF LEVEL.

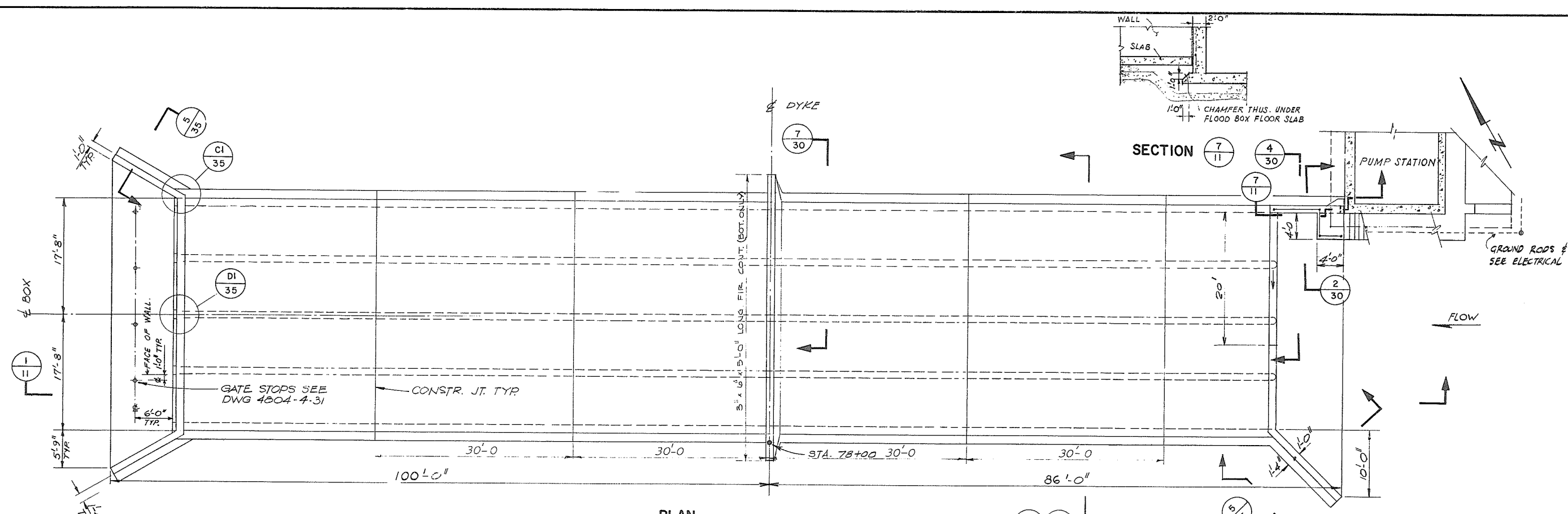


SECTION 1/10

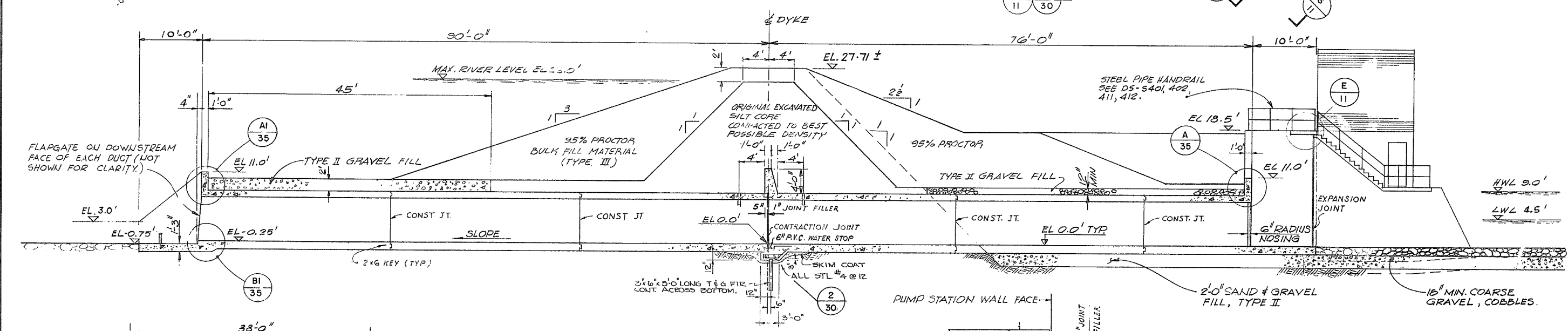
NO.	DATE	BY	REVISIONS
4	7-9-73	AK	AS CONSTRUCTED
3	22-8-73	KH	STEPS DELETED
2	21-7-73	KH	STEPS DETAILS ADDED
1	27-4-73	KH	HEAVY RIP-RAP ADDED

APPROVED
DATE 11 May 1972
THE FRASER RIVER JOINT PROGRAM COMMITTEE
DESIGNER
DRAWN Y.K.
DATE APRIL 1972
CHECKED L.C. L.P.
APPROVED
DATE 19 May 1972
FOR THE PROVINCE OF BRITISH COLUMBIA

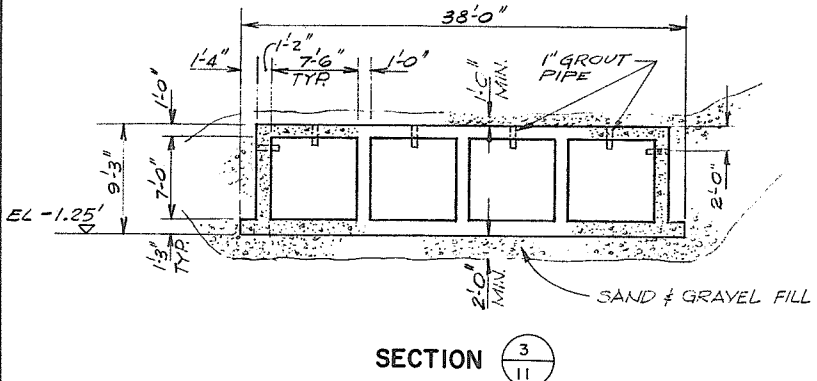
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-10
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		SCALE 1" = 20'
TITLE PUMP STATION & FLOOD BOX NO. 1 GENERAL ARRANGEMENT PLAN & SECTIONS		DATE APRIL 1972 APPROVED
DRAWING NO. 4804-3-10		REV. 4



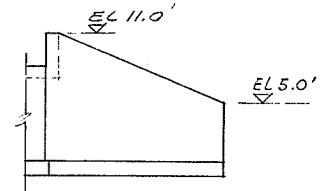
PLAN



SECTION I-I



SECTION 3-3



SECTION 6-6

DETAIL E-E
SCALE: 1/2" = 1'-0"

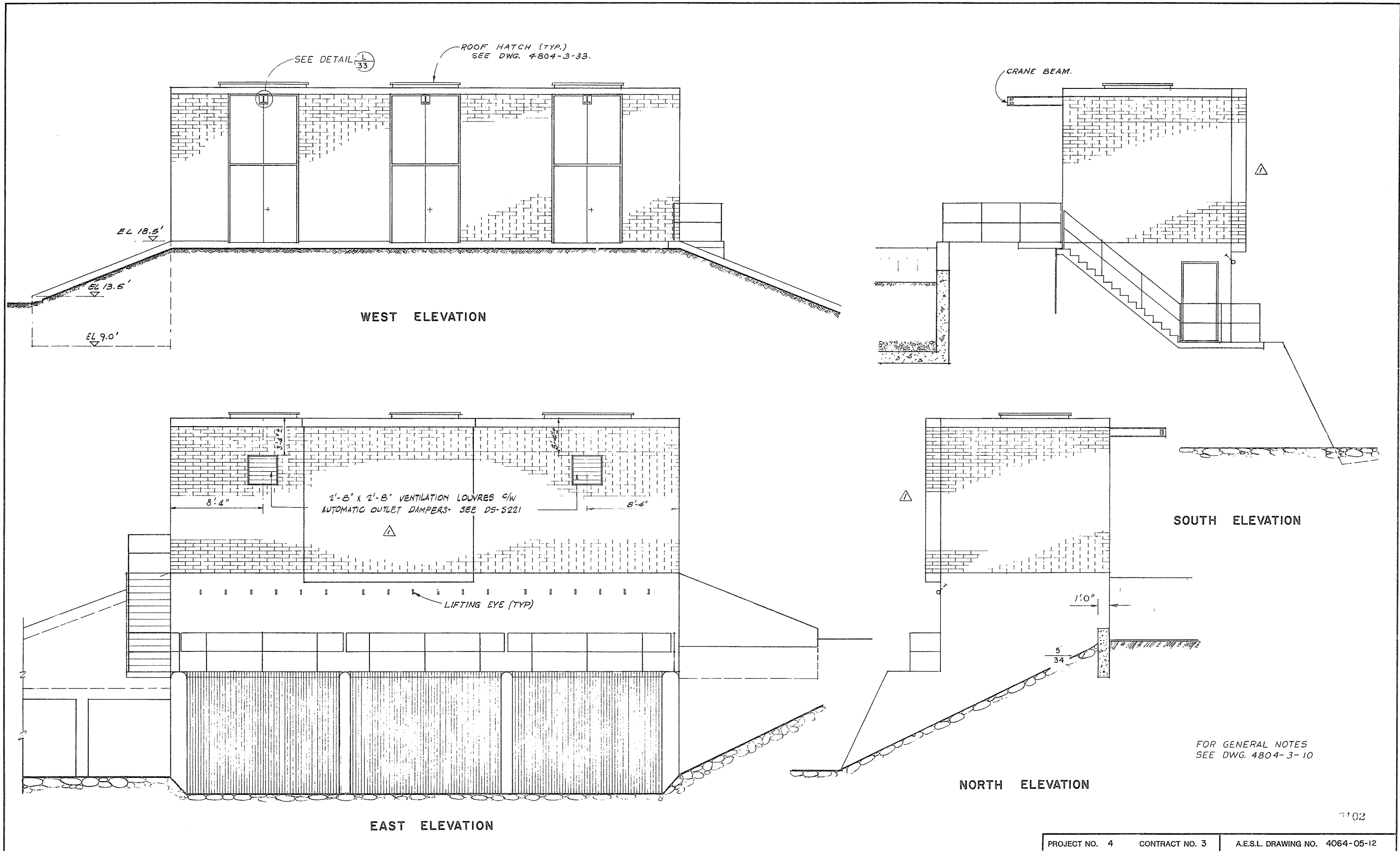
FOR GENERAL NOTES SEE DWG. 4804-3-10

101

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-11	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1964 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI				DESIGN: [Signature] DRAWN: Y.K. CHECKED: J.C. L.P. DATE: 19 May 1972	
DATE: 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA				SCALE: 1/8" = 1'-0" OR NOTED DATE: APRIL, 1972 APPROVED: [Signature] DRAWING NO. 4804-3-11 REV. 2	
TITLE: FLOOD BOX NO. 1					

NO.	DATE	BY	REVISIONS	ENG.
2	7-9-72	AS	AS CONDUCTED	
1	23/1/72	Y.K.	BULK FILL MATERIAL ADDED UP AND DOWNSTREAM OF SILT CORE	



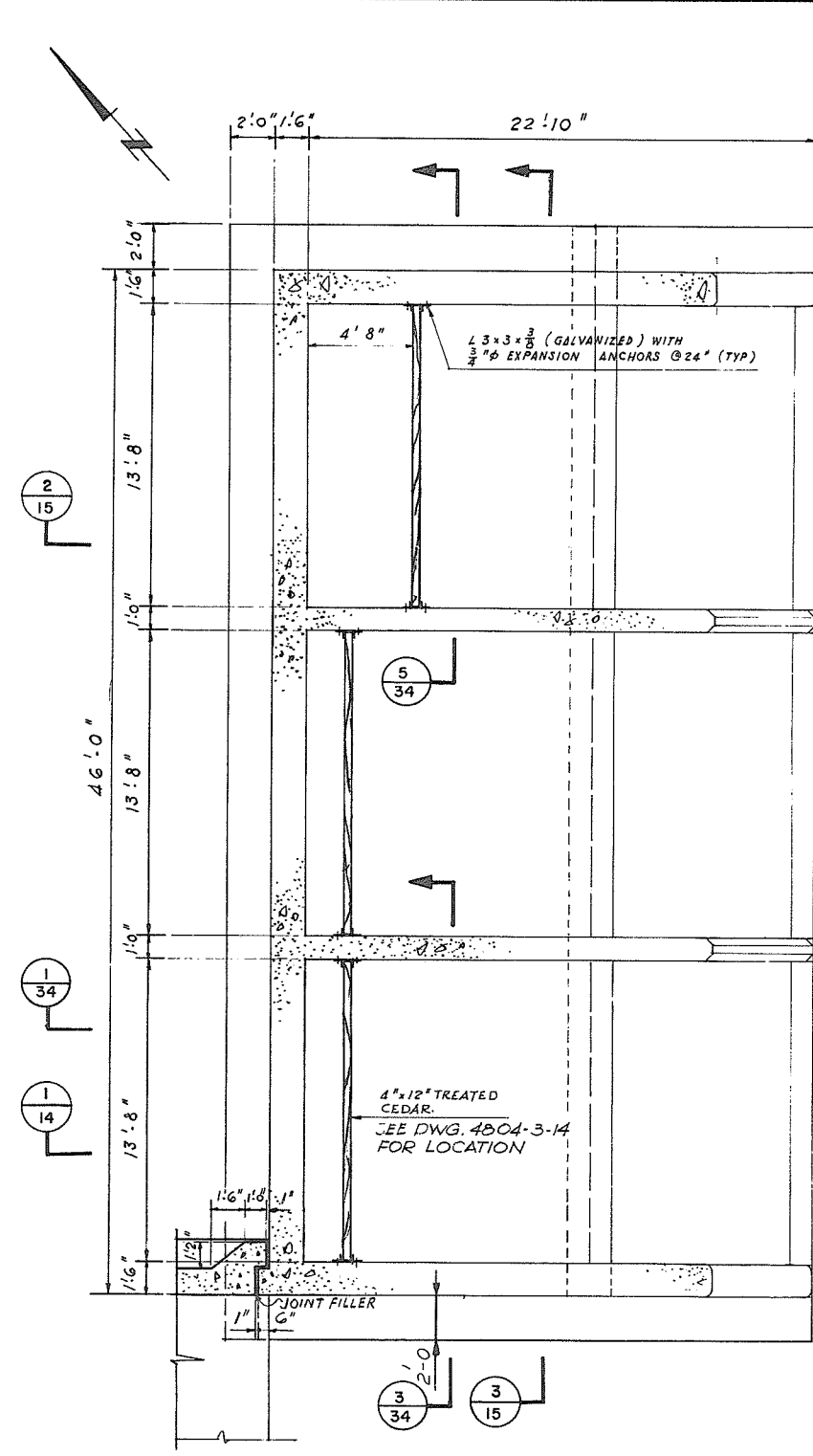


FOR GENERAL NOTES
SEE DWG. 4804-3-10

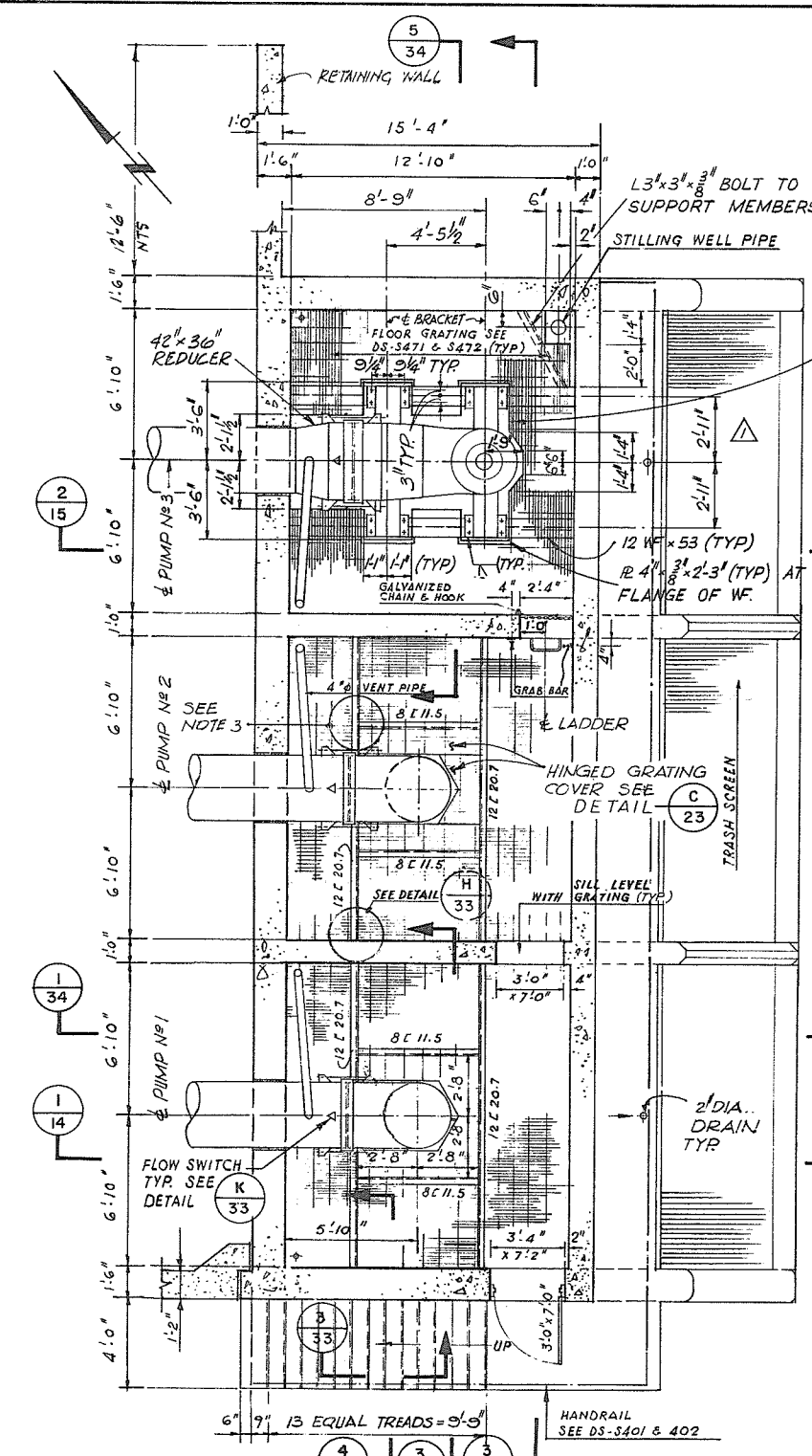
1102

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-12	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Consulting Engineers VANCOUVER, B.C.</small>	
THE FRASER RIVER JOINT PROGRAM COMMITTEE CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI				DESIGN <i>[Signature]</i> SCALE 1/4" = 1'-0" DRAWN Y.K. DATE APRIL, 1972. CHECKED Z.C. L.P. APPROVED <i>[Signature]</i> DRAWING NO. 4804-3-12 REV. 2	
DATE 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		DATE 19 May 1972 APPROVED		TITLE PUMP STATION NO. 1 ELEVATIONS	
2 7-9-72 AS CONSTRUCTED. 1 23 OCT 1972 PW SOUTH - EAST & NORTH ELEVATIONS L.C. REVISED		REVISIONS NO. DATE BY		ENG. <i>[Signature]</i>	

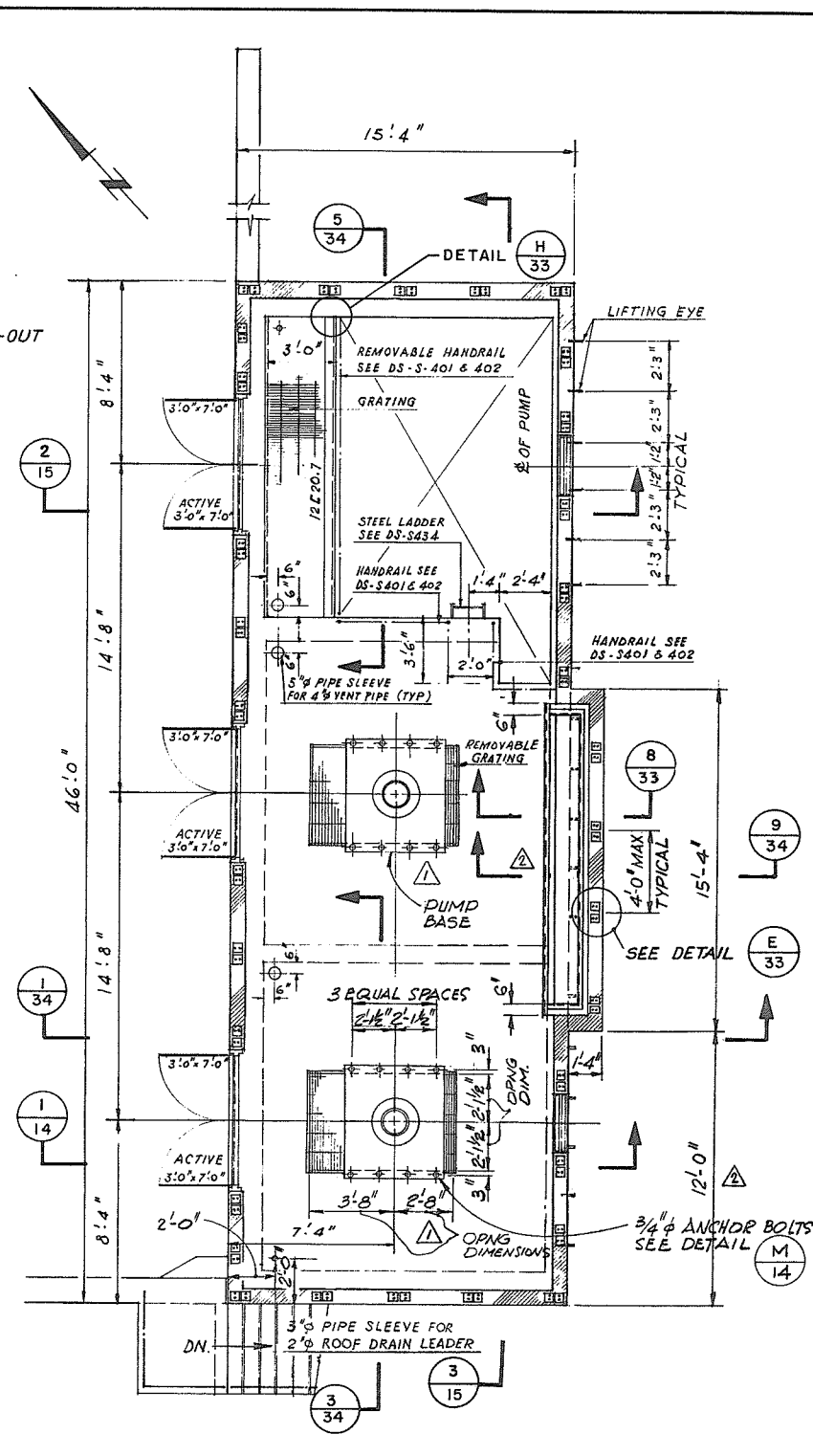
SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN ▲



PLAN - FLOOR EL-1.5'
PUMP STATION NO. 1



PLAN - FLOOR EL 9.60' & EL 13.43'
PUMP STATION NO. 1



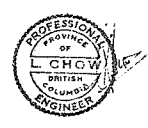
PLAN - FLOOR EL 18.5'
PUMP STATION NO. 1

NOTES

- 1.
- 2.

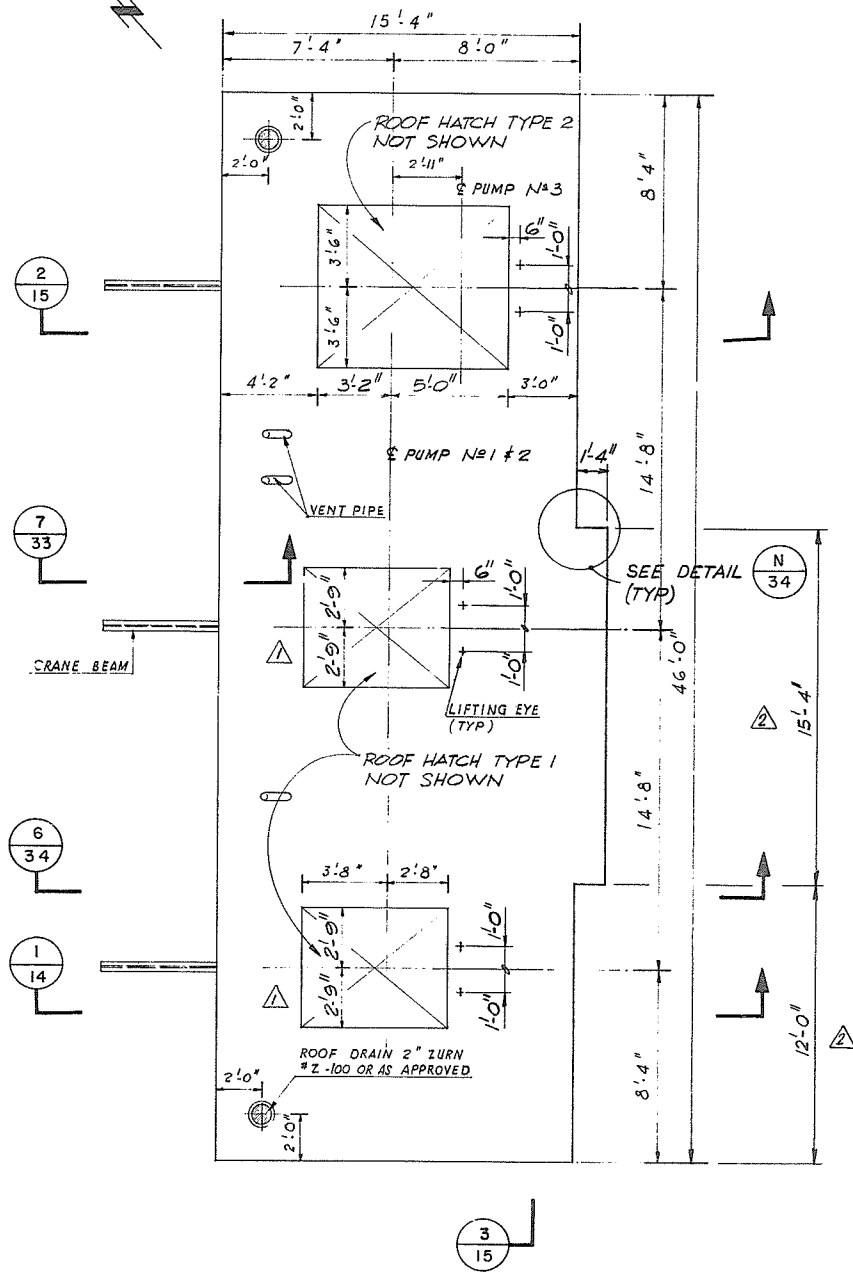
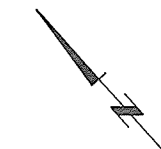
3. EXCEPT NOTED OTHERWISE STEEL CHANNEL BEAM CONNECTIONS SHALL BE STANDARD BOLTED FRAME TYPE. BOLTS SHALL BE 2-3/4" A325 PER CONNECTION.
4. FOR GENERAL NOTES SEE DWG 4804-3-10.

NO.	DATE	BY	REVISIONS	ENG.
3	7-9-72	AS	CONSTRUCTED	
2	OCT 18 1972	PK	FLOOR PLAN AT EL 18.5' REVISED NOTE 2 DELETED. SECT. (3) ADDED	L.C.
1	OCT 12 1972	AGS	PUMPS NO. 1, 2, 3 OPNGS REVISED. PUMP NO. 3 SUPPORTS LOCATED. NOTE 1 DELETED.	R.C.

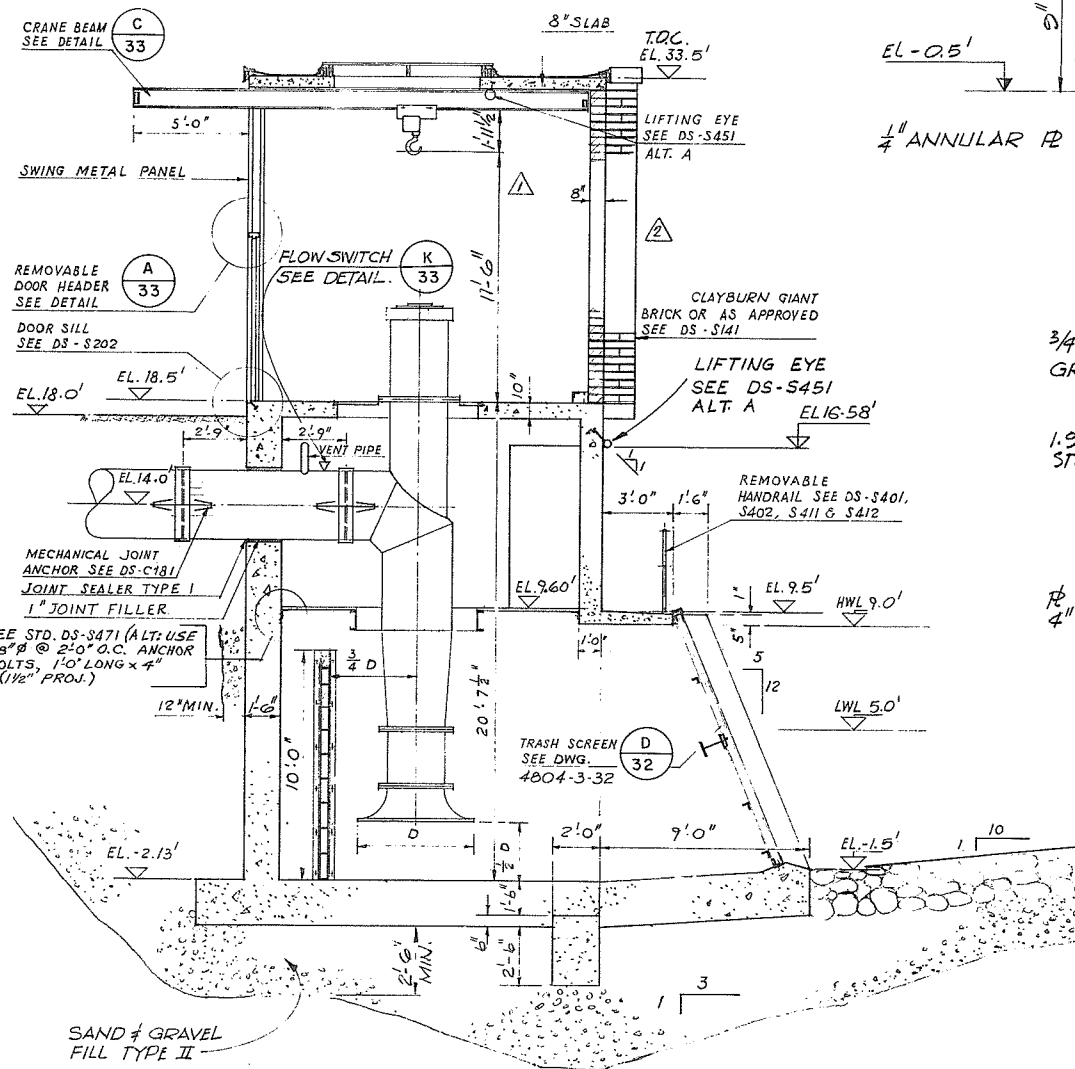


DATE 10 MAY 1972
APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA

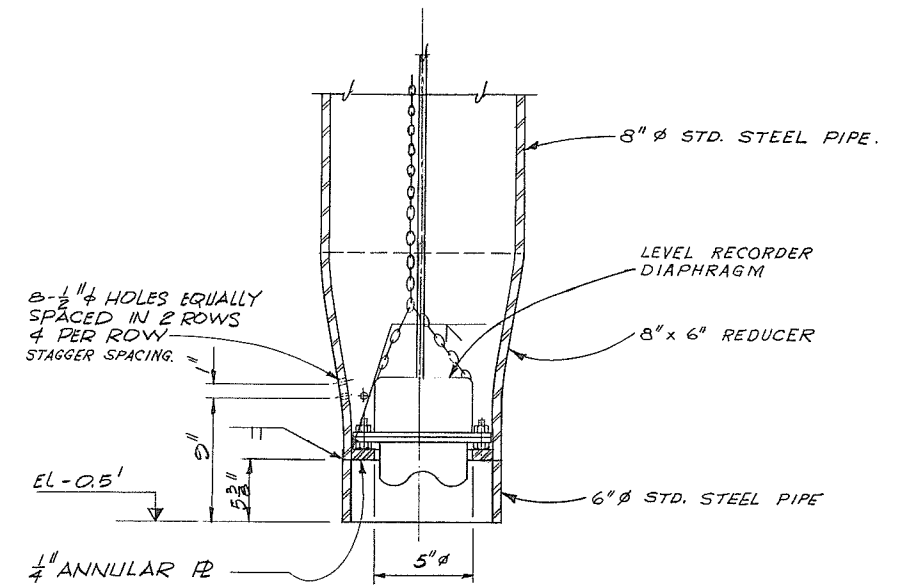
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-13
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT DISTRICT OF MATSQUI		DESIGN E.F.T. SCALE 1/4" = 1'-0"
TITLE PUMP STATION NO. 1 PLANS AT EL. -1.5, EL. 9.6, EL. 18.5		DRAWN Y.K. DATE APRIL 1972
		CHECKED L.C. LP APPROVED
		DRAWING NO. 4804-3-13 REV. 3



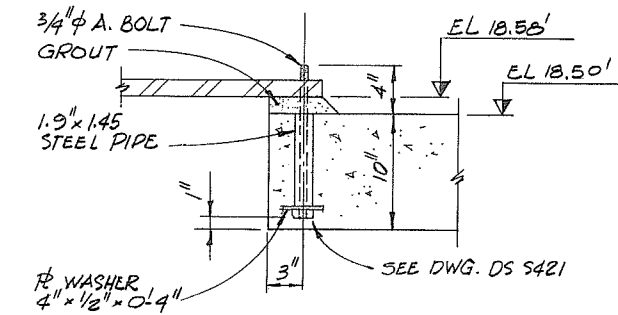
ROOF PLAN
PUMP STATION NO. I



SECTION
PUMP STATION NO. I



DETAIL
N.T.S.



DETAIL
N.T.S.

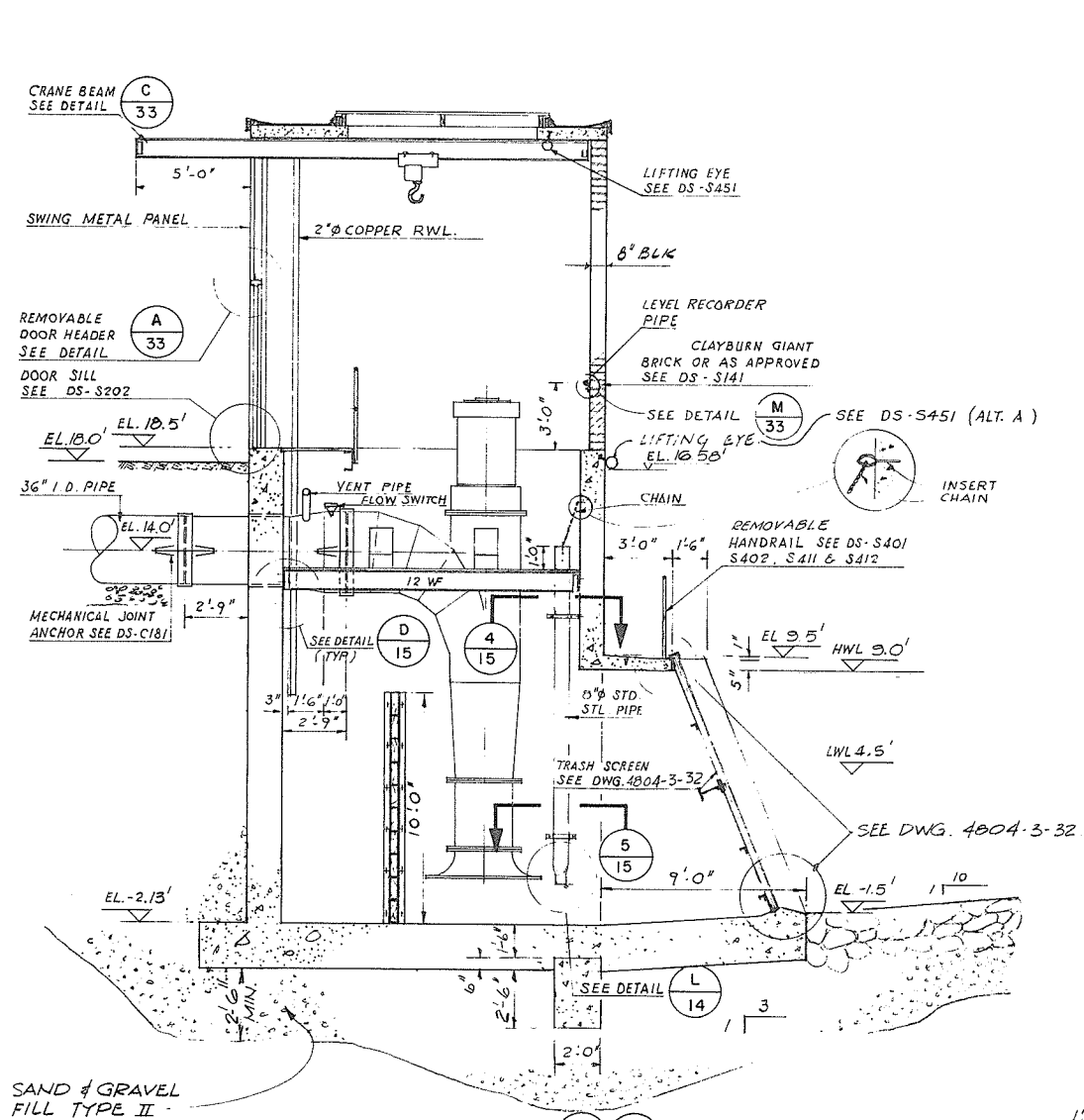
NOTE
- FOR GENERAL NOTES SEE DWG.
4804-3-10

104

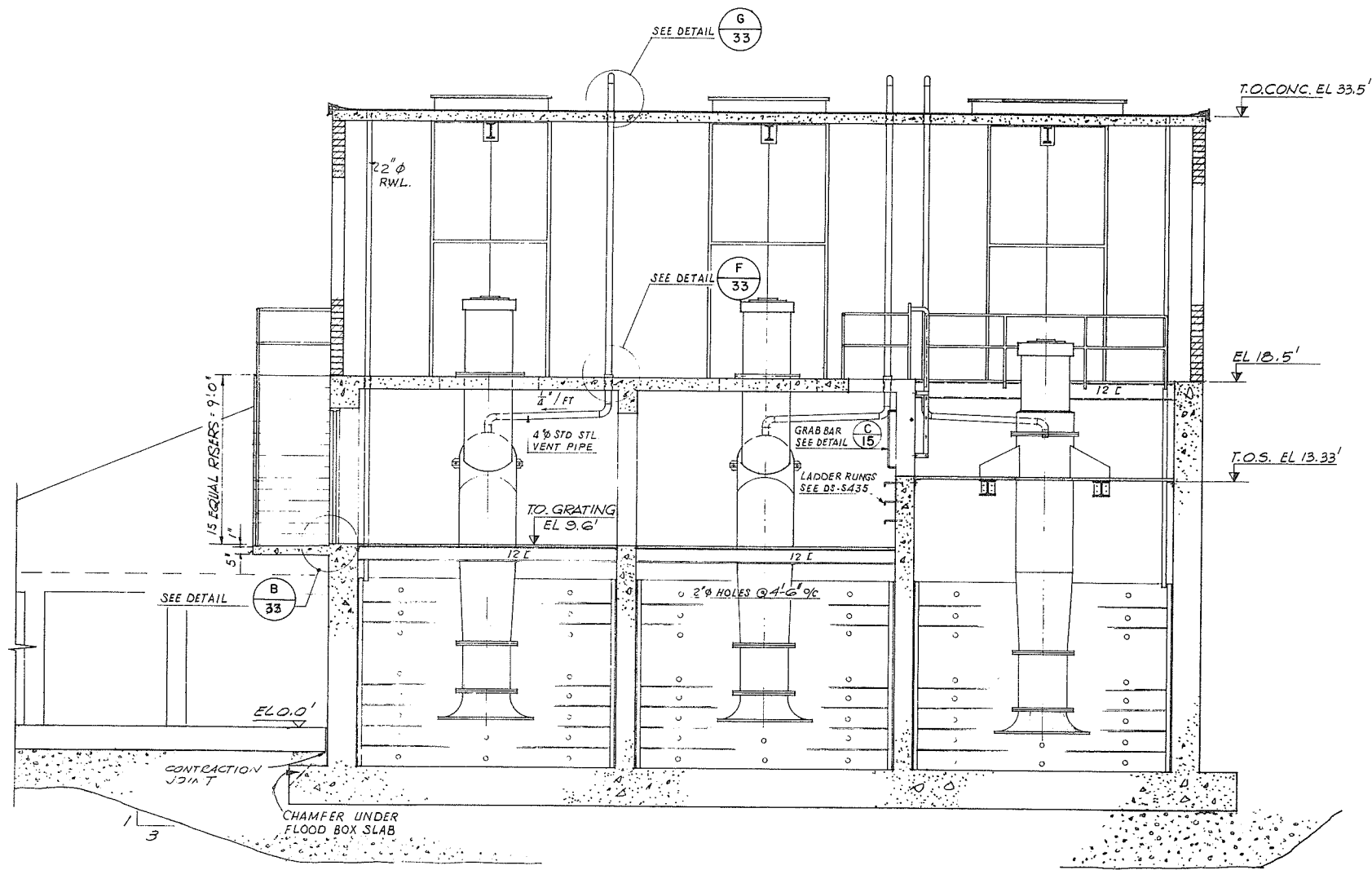
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-14
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN E.F.T. DRAWN Y.K. CHECKED L.C. L.P. DATE 19 MAR 1972
TITLE PUMP STATION NO. I ROOF PLAN & SECTION		SCALE 1/4"=1'-0" - OR NOTED DATE APRIL, 1972 APPROVED
DRAWING NO. 4804-3-14		REV. 3

NO.	DATE	BY	REVISIONS	ENG.
3	7-9-72	AS	AS CONSTRUCTED	
2	OCT. 19 1972	PW	ROOF PLAN & SECTION I REVISED.	L.C.
1	OCT. 12, 1972	AS	DETAIL ADDED. NOTE DELETED. ROOF OPNGS WIDENED. DIM. ADDED.	L.C.

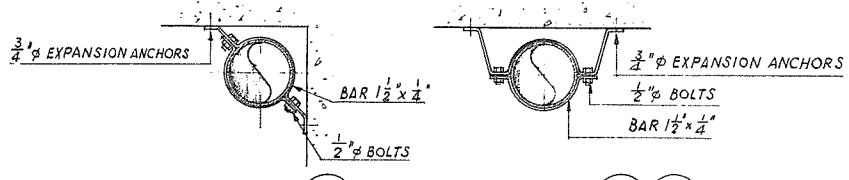
SUPersedes ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN



SECTION 2/13-2/14
PUMP STATION NO. 1

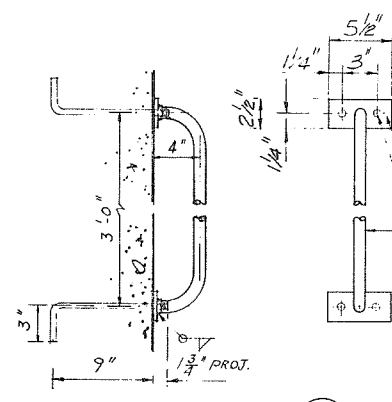


SECTION 3/13-3/14
PUMP STATION NO. 1

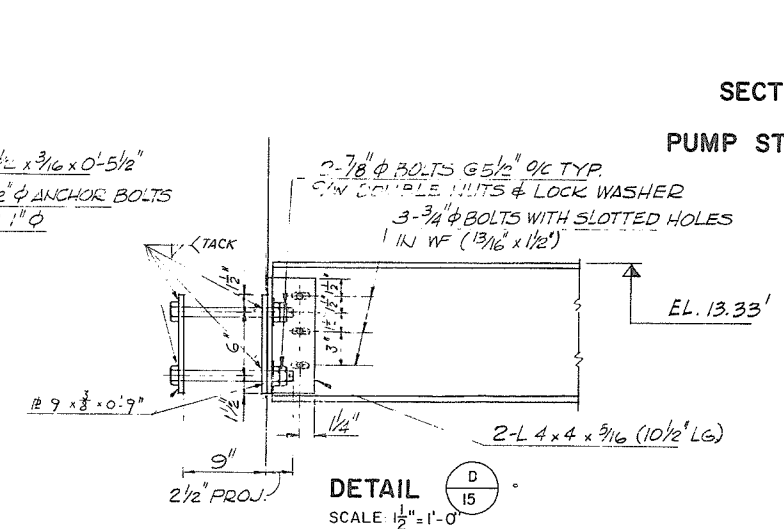


SECTION 4/15
SCALE: 1" = 1'-0"

SECTION 5/15-5/24
SCALE: 1" = 1'-0"



DETAIL C/15
GRAB BAR
SCALE: 1/2" = 1'-0"

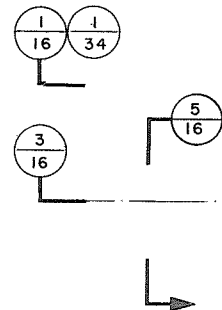
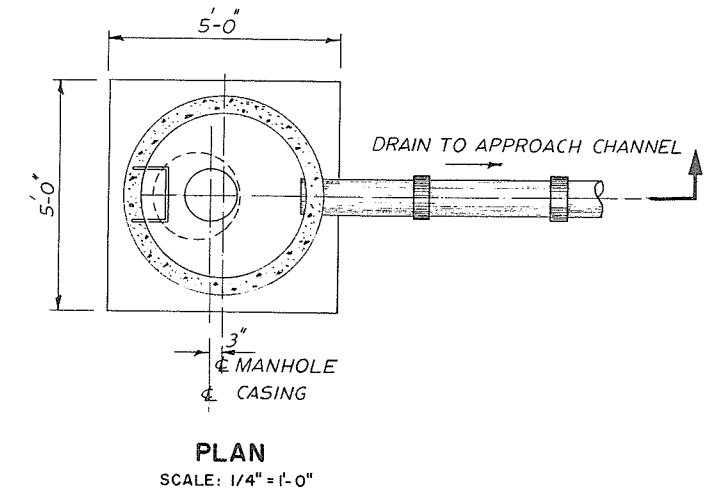
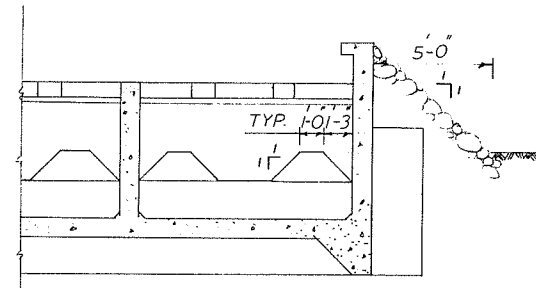
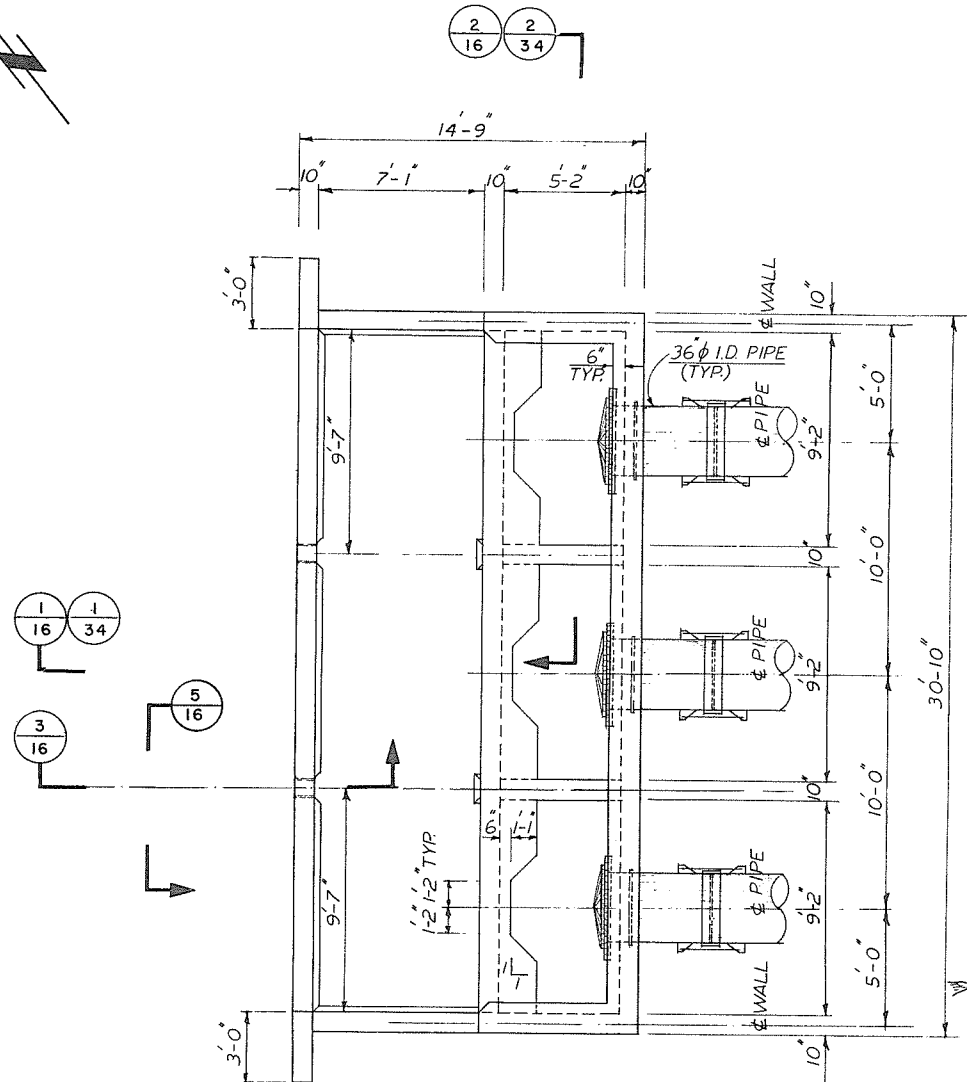
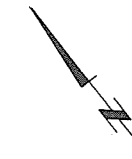
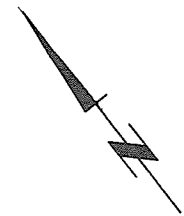


DETAIL D/15
SCALE: 1/2" = 1'-0"

NOTE
FOR GENERAL NOTES SEE DWG 4804-3-10

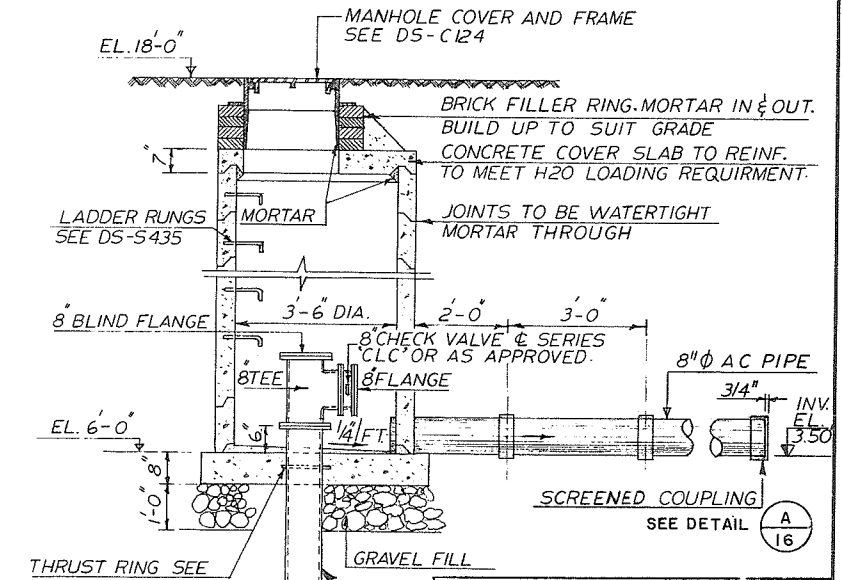
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-15
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSUQUI		
TITLE PUMP STATION NO. 1 SECTIONS AND DETAILS		DESIGN E.F.T. DRAWN Y.K. CHECKED L.C. L.P. DRAWING NO. 4804-3-15
DATE 16 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		SCALE 1/4" = 1'-0" - OR NOTED DATE APRIL 1972 APPROVED

NO.	DATE	BY	REVISIONS	ENG.
1	7-9-73	AS	CONSTRUCTED	

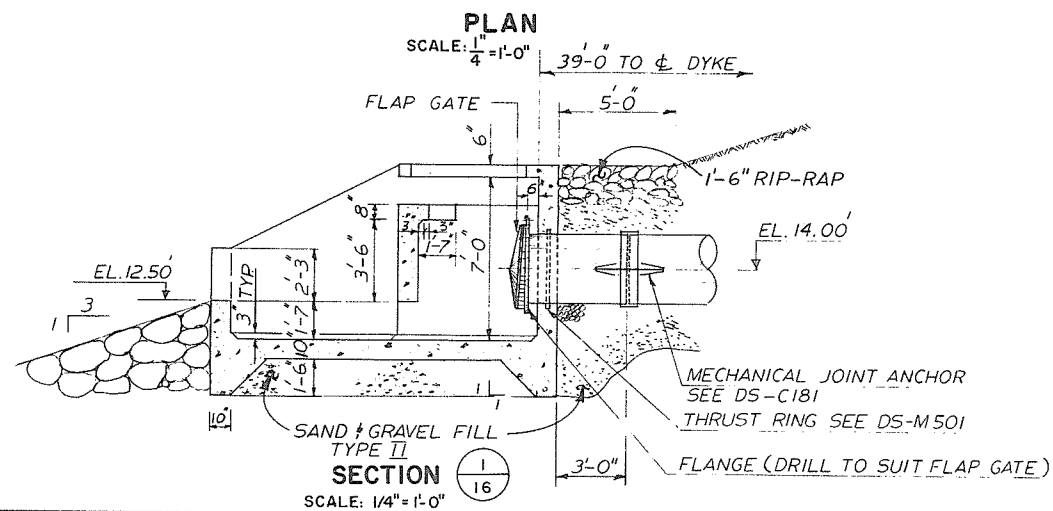


SECTION 2/16
SCALE: 1/4" = 1'-0"

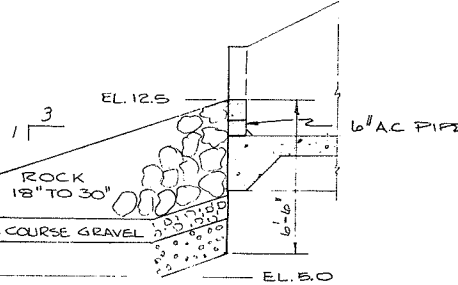
PLAN
SCALE: 1/4" = 1'-0"



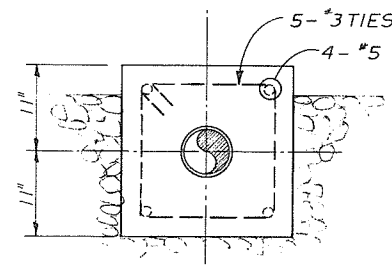
SECTION 4/16
SCALE: 1/4" = 1'-0"



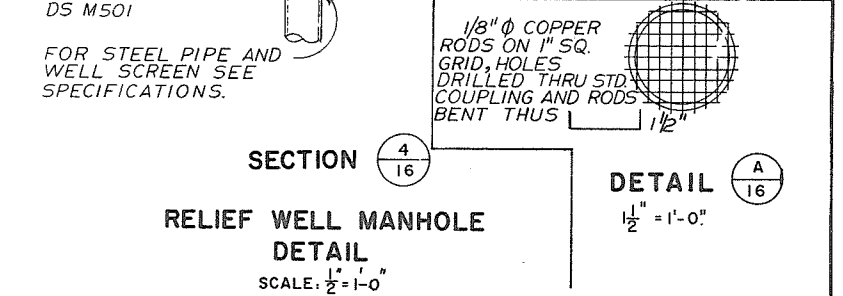
SECTION 1/16
SCALE: 1/4" = 1'-0"



SECTION 3/16
SCALE: 1/4" = 1'-0"



SECTION 5/16
SCALE: 1/4" = 1'-0"



DETAIL A
SCALE: 1/2" = 1'-0"

SECTION 4/16
RELIEF WELL MANHOLE
DETAIL
SCALE: 1/2" = 1'-0"

FOR GENERAL NOTES SEE DWG 4804-3-10

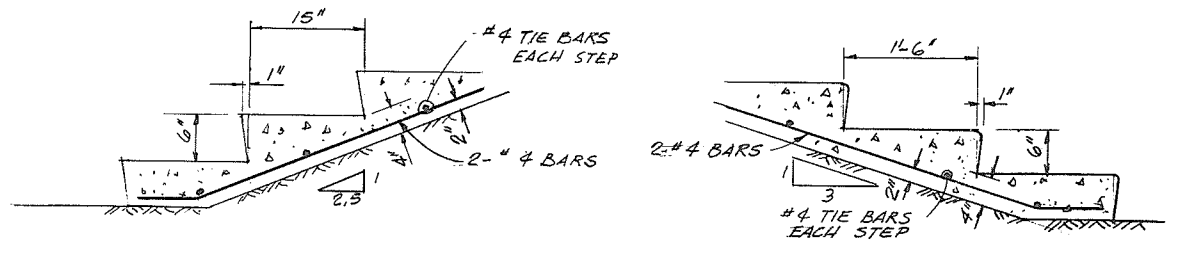
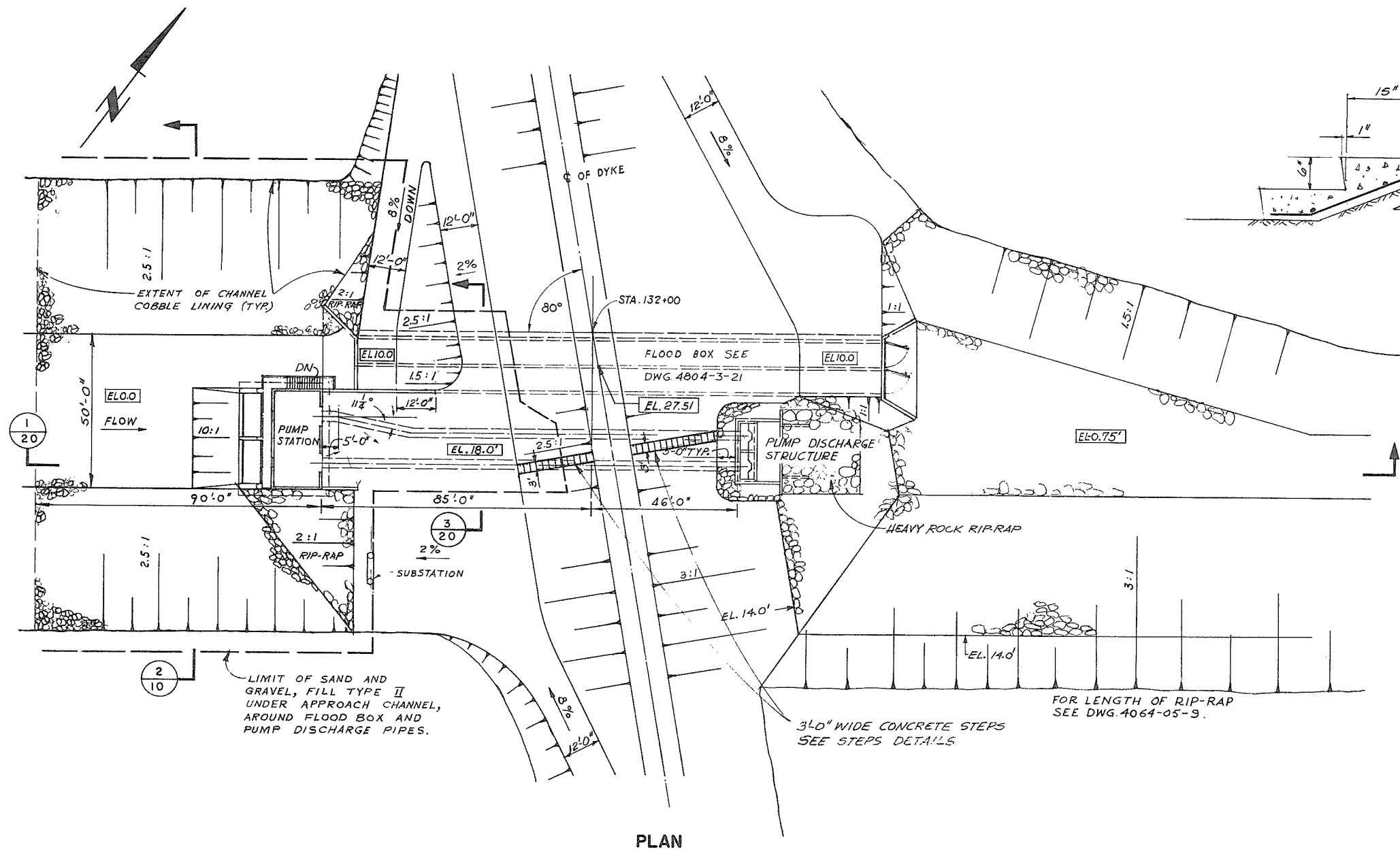
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-16
CLIENT: THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
PROJECT: CANADA-BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE: PUMP STATION NO. 1 PUMP DISCHARGE STRUCTURE & RELIEF WELL MANHOLE PLAN & SECTIONS		
DESIGN L.C.	SCALE AS SHOWN	
DRAWN M.S.	DATE APRIL, 1972	
CHECKED L.C. L.P.	APPROVED	
DRAWING NO. 4804-3-16	REV. 1	

SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN

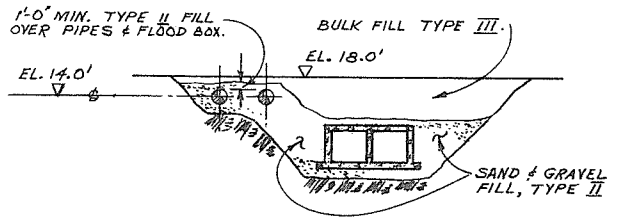
NO.	DATE	BY	REVISIONS	ENG.
1	7-9-73		AS CONSTRUCTED	



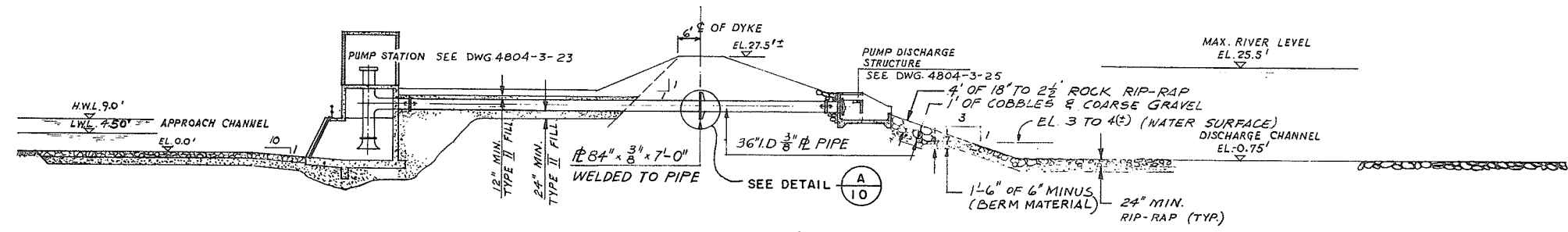
DATE 10 May 1972
APPROVED
THE FRASER RIVER JOINT
PROGRAM COMMITTEE
DATE 19 May 1972
APPROVED
FOR THE PROVINCE OF
BRITISH COLUMBIA



CONCRETE STEPS DETAILS
SCALE: 1" = 1'-0"



SECTION 3/20



SECTION 1/20

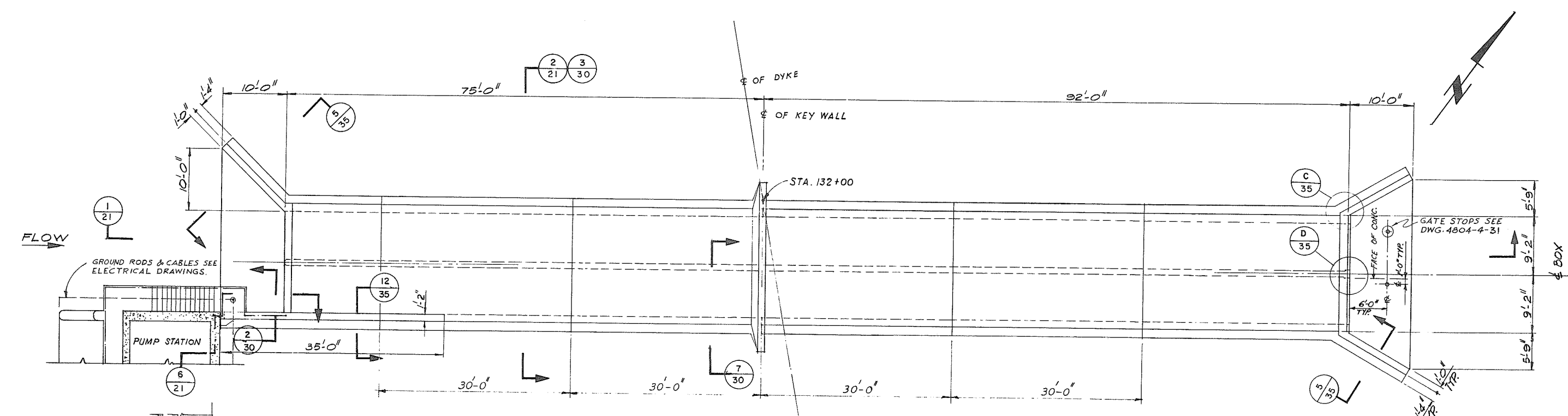
FOR GENERAL NOTES SEE DWG. 4804-3-10

2107

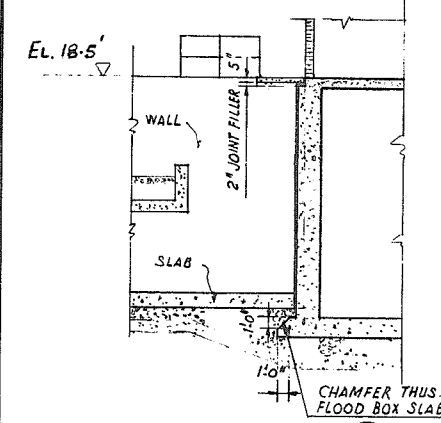
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-20
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Vancouver, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4		DESIGN: [Signature] SCALE: 1" = 20' DRAWN: Y.K. DATE: APRIL, 1972 CHECKED: L.C. LP APPROVED: [Signature]
TITLE: PUMP STATION & FLOOD BOX NO. 2 GENERAL ARRANGEMENT PLAN & SECTIONS		DRAWING NO. 4804-3-20 REV. 4

NO.	DATE	BY	REVISIONS
4	7-9-73	RS	AS CONSTRUCTED
3	21.8.73	V.W.	STEPS DELETED
2	21.7.73	V.W.	STEPS DETAILS ADDED
1	30.4.73	P.W.	GENERAL REVISION

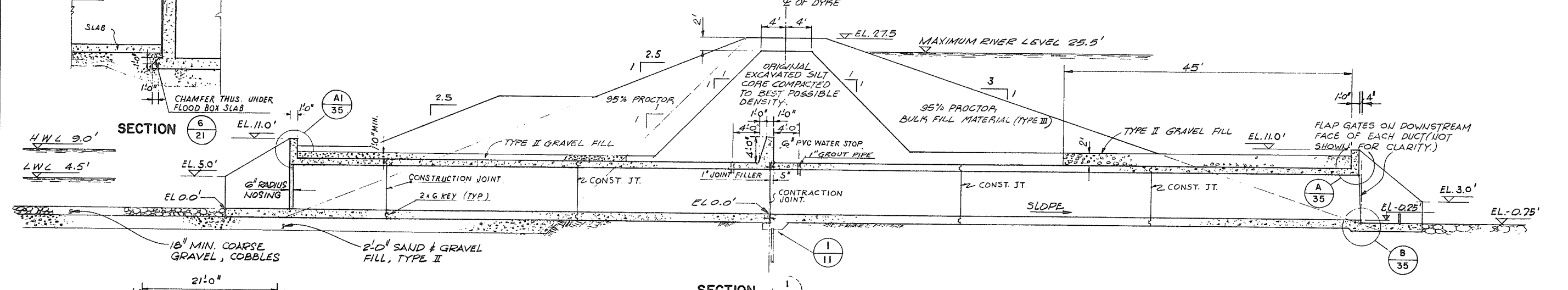




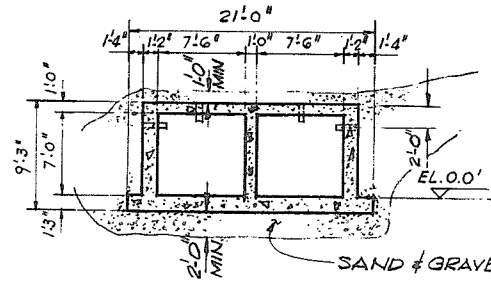
PLAN



SECTION 6/21



SECTION 1/21



SECTION 2/21

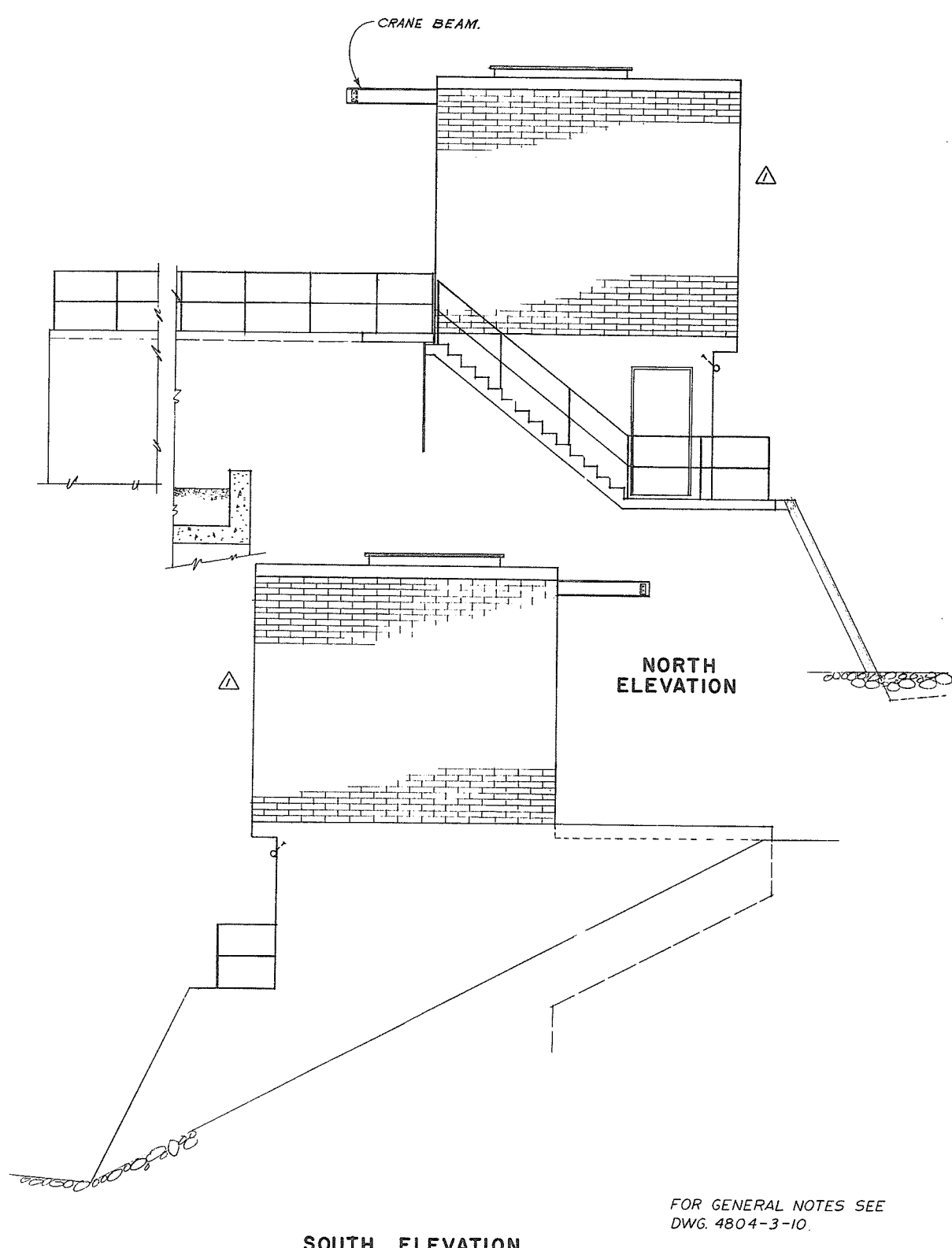
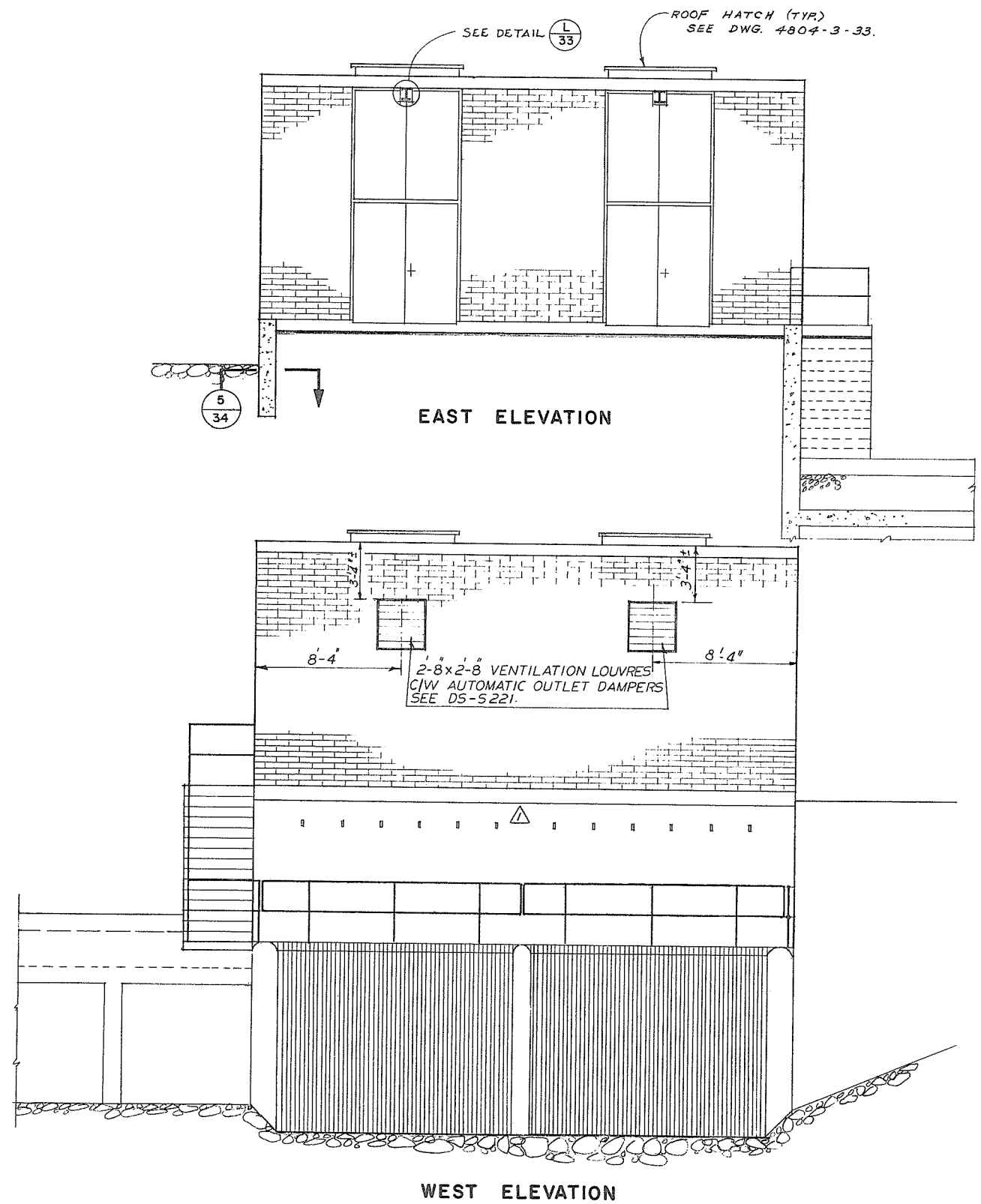
FOR GENERAL NOTES SEE DWG. 4804-3-10

31.08

NO.	DATE	BY	REVISIONS	ENG.
2	7-9-73	VM	AS CONSTRUCTED	
1	24.12.71	VM	BULK FILL MATERIAL ADDED UP AND DOWNSTREAM OF SILT CORE	

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-21
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>VANCOUVER, B.C.</small>
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1953 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
DATE 19 MAY 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		DESIGN <i>Stall Lager</i> DRAWN Y.K. CHECKED Z.C. L.P. DRAWING NO. 4804-3-21
TITLE FLOOD BOX NO. 2		SCALE 1/8"=1'-0" DATE APRIL, 1972 APPROVED <i>[Signature]</i> REV. 2

SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN 31.08



FOR GENERAL NOTES SEE DWG. 4804-3-10.

0109

SOUTH ELEVATION

WEST ELEVATION

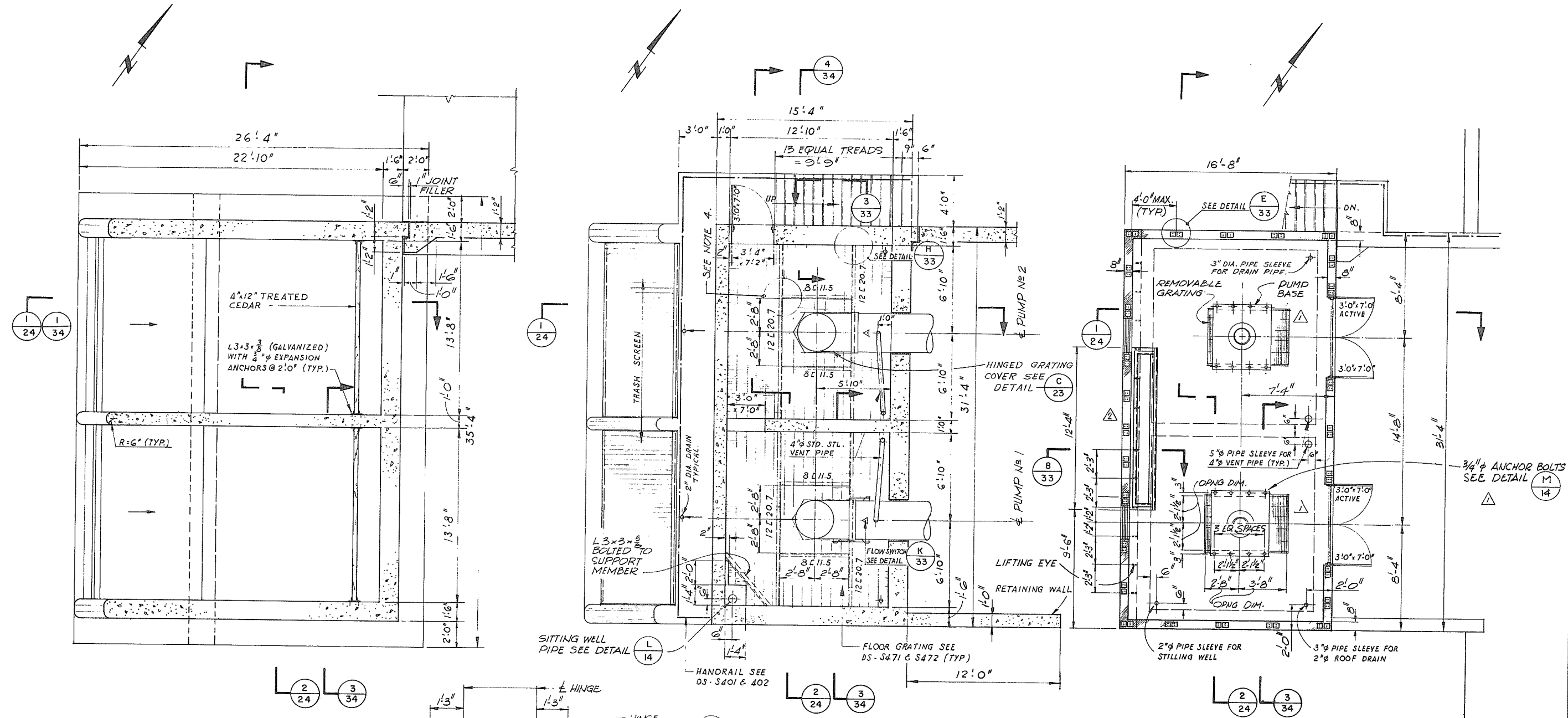
EAST ELEVATION

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-22
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Vancouver, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT DISTRICT OF MATSQUI		DESIGN <i>[Signature]</i> SCALE 1/4" = 1'-0"
PUMP STATION NO. 2 ELEVATIONS		DRAWN Y.K. DATE APRIL, 1972.
DATE 19 May 1972. APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		CHECKED L.C. L.P. APPROVED <i>[Signature]</i>
		DRAWING NO. 4804-3-22 REV. 2

2	7-9-73	AS CONSTRUCTED	L.C.
1	26-10-72	NORTH, SOUTH & WEST ELEVATIONS REVISED.	L.C.
NO.	DATE	BY	REVISIONS



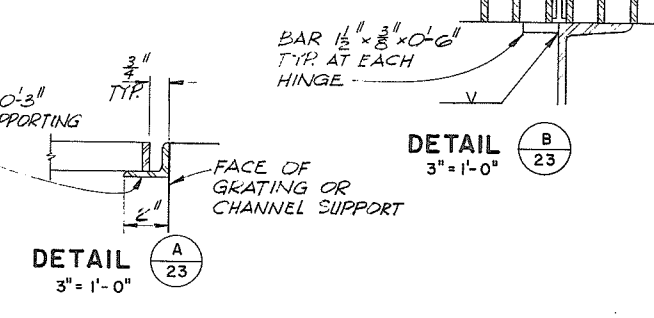
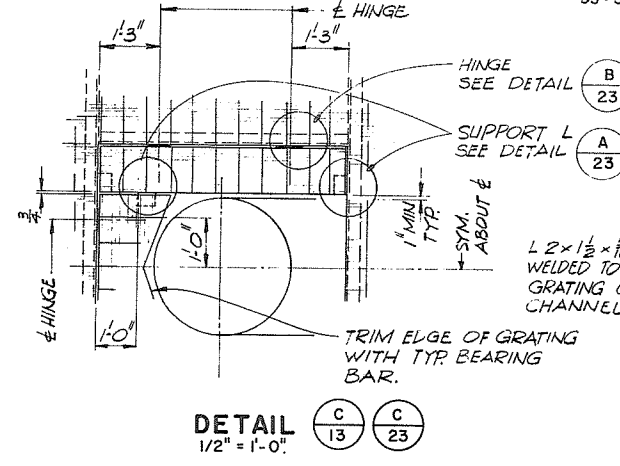
SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN



PLAN - FLOOR EL-1.5'
PUMP STATION NO. 2

PLAN - FLOOR EL 9.6'
PUMP STATION NO. 2

PLAN - FLOOR EL 18.5'
PUMP STATION NO. 2



DETAIL B
3" = 1'-0"

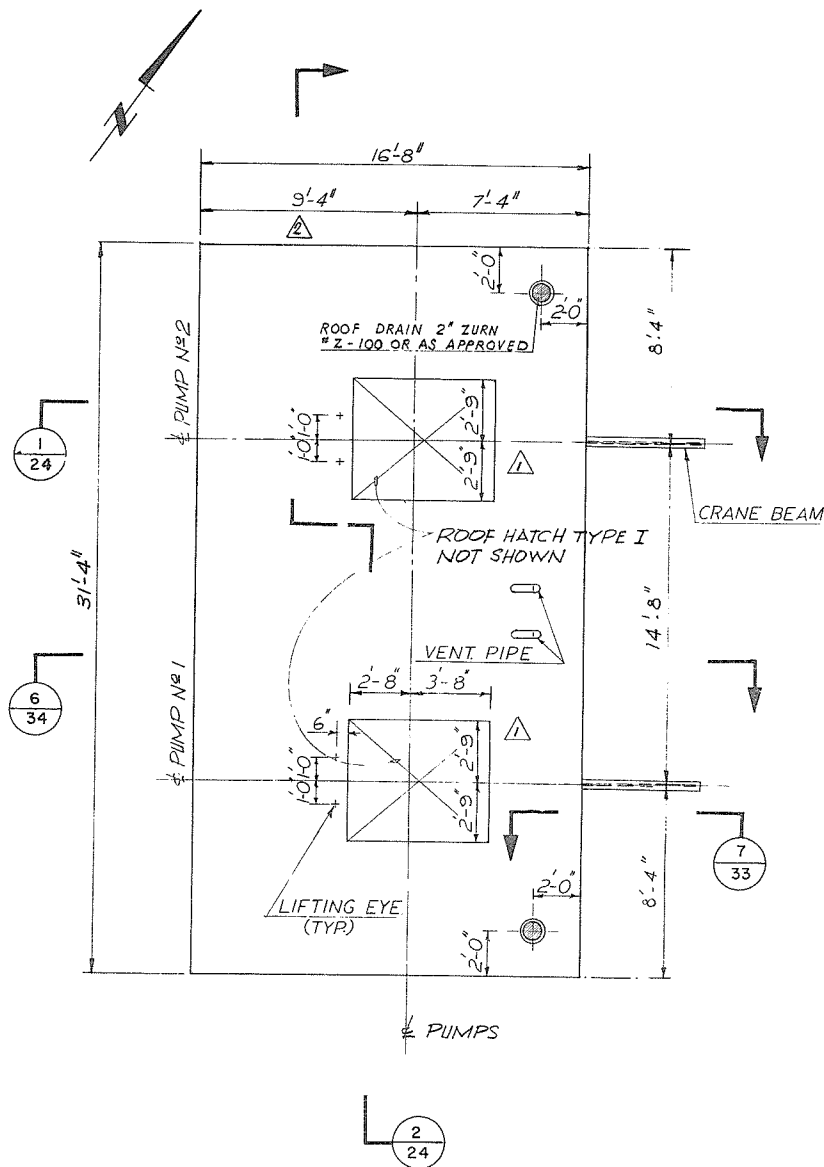
NOTES
1. FOR GENERAL NOTES SEE DWG 4804-3-10
2. EXCEPT NOTED OTHERWISE STEEL CHANNEL BEAM CONNECTIONS SHALL BE STANDARD BOLTED FRAME TYPE. BOLTS SHALL 2-3/4" A325 PER CONNECTION.

8110

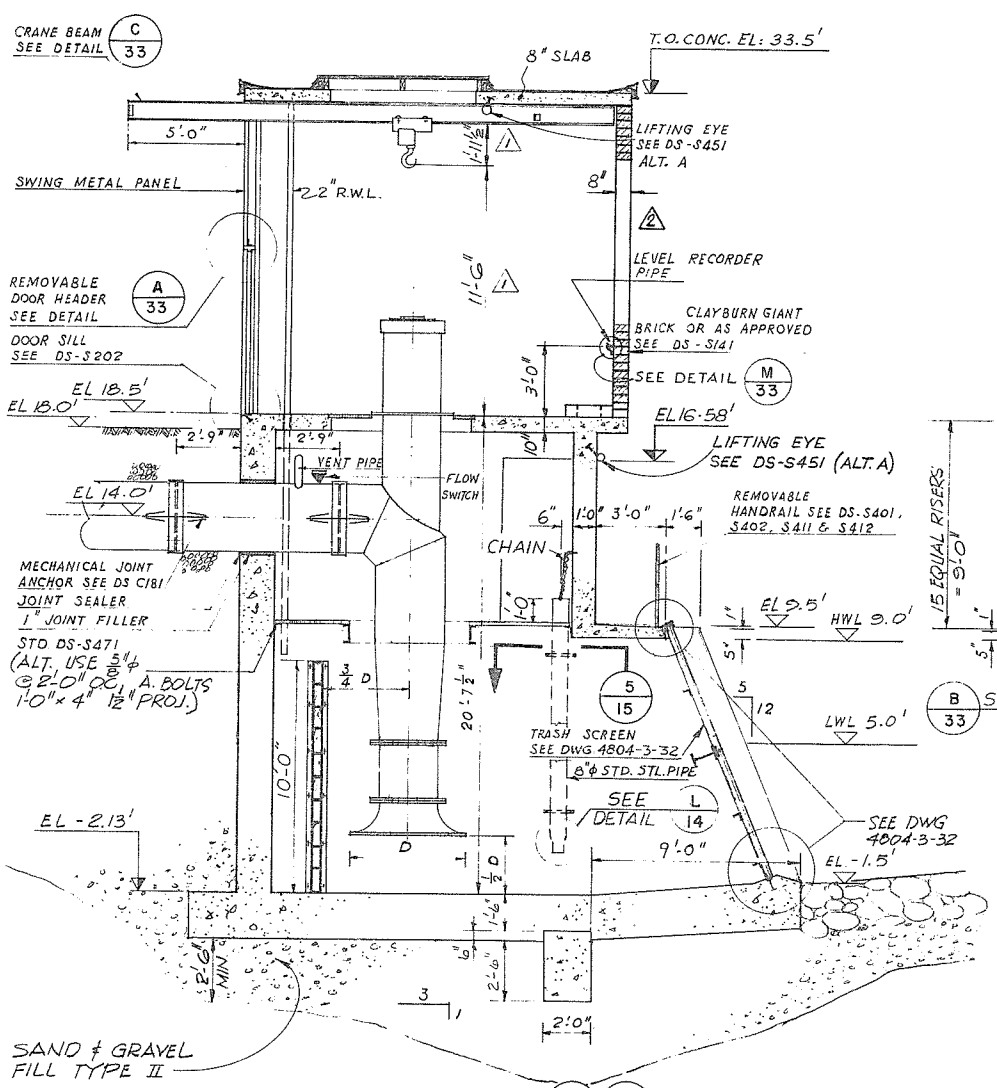
NO.	DATE	BY	REVISIONS	ENG.
3	7-9-73	2B	AS CONSTRUCTED	
2	26 OCT 1972	RW	FLOOR PLAN AT EL 18.5' REVISED - NOTE 3 DELETED.	L.C.
1	OCT 1972	DSS	PUMP #1 & #2 OPINGS REVISED. NOTE 2 DELETED.	

APPROVED
DATE 16 May 1972
THE FRASER RIVER JOINT PROGRAM COMMITTEE
DATE 19 May 1972
FOR THE PROVINCE OF BRITISH COLUMBIA

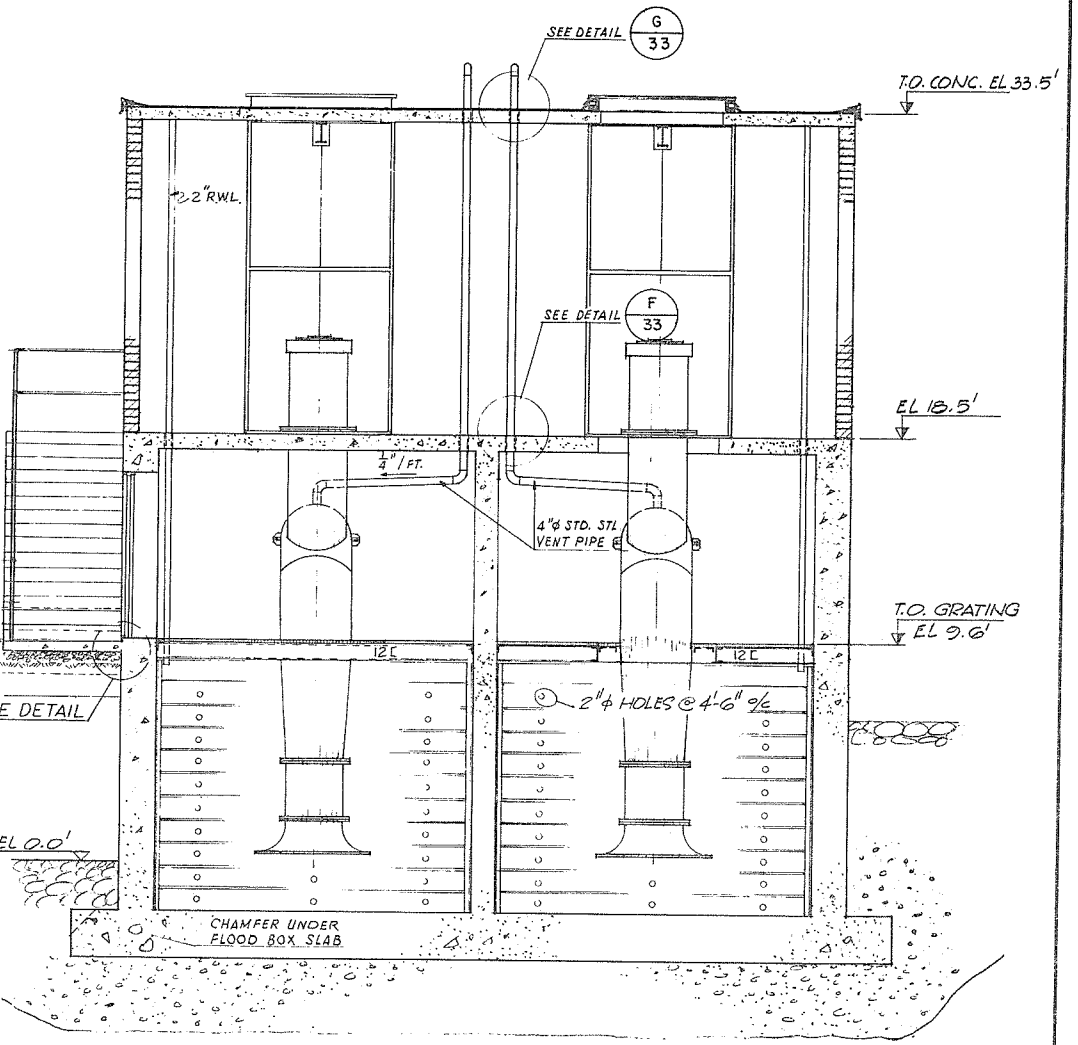
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-23
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT DISTRICT OF MATSQUI		DESIGN E.F.T. SCALE 1/4" = 1'-0"
TITLE PUMP STATION NO. 2 PLANS AT EL. -1.5', EL. 9.5', EL. 18.5'		DRAWN Y.K. DATE APRIL, 1972.
		CHECKED L.C. L.P. APPROVED R.P.
		DRAWING NO. 4804-3-23 REV. 3



ROOF PLAN
PUMP STATION NO. 2



SECTION 1-1
PUMP STATION NO. 2

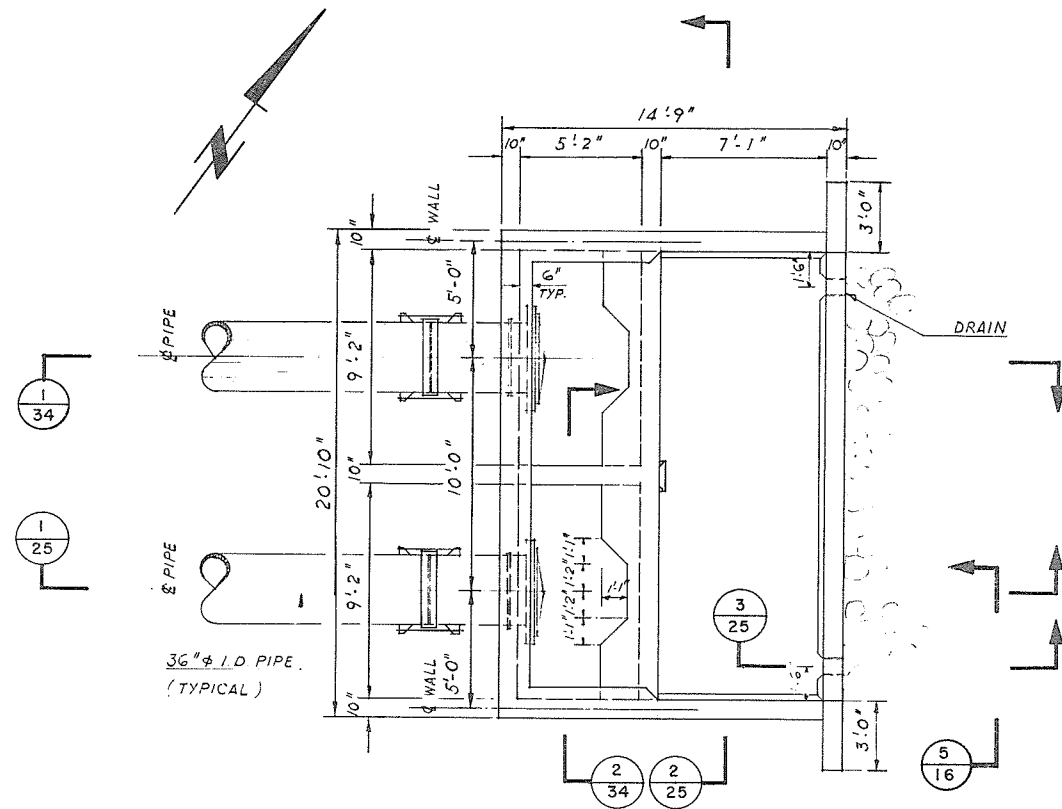


SECTION 2-2
PUMP STATION NO. 2

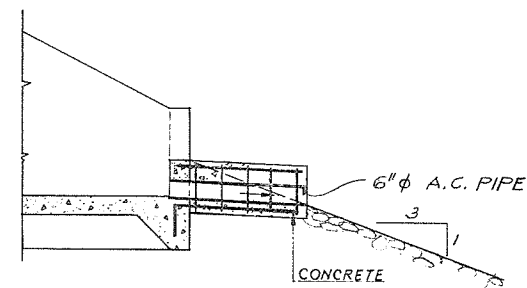
NOTE
-FOR GENERAL NOTES SEE DWG. 4804-3-10



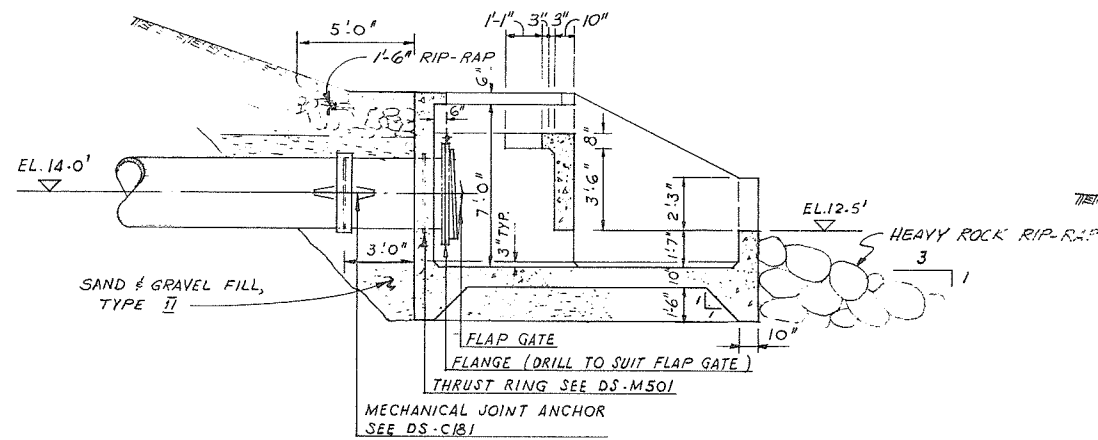
PROJECT NO. 4 CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-24	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Chartered Engineers VANCOUVER, B.C.</small>	
DATE 10 MAY 1972 APPROVED THE FRASER RIVER JOINT PROGRAM COMMITTEE		CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI	
DATE 19 MAY 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		TITLE PUMP STATION NO. 2 ROOF PLAN & SECTIONS	
DESIGN E.F.T. SCALE 1/4" = 1'-0" DRAWN Y.K. DATE APRIL 1972. CHECKED L.C. L.P. APPROVED L.P.		DRAWING NO. 4804-3-24 REV. 3	



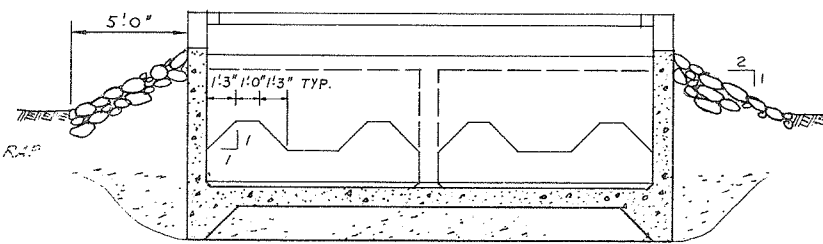
PLAN



SECTION $\frac{3}{25}$



SECTION $\frac{1}{25}$



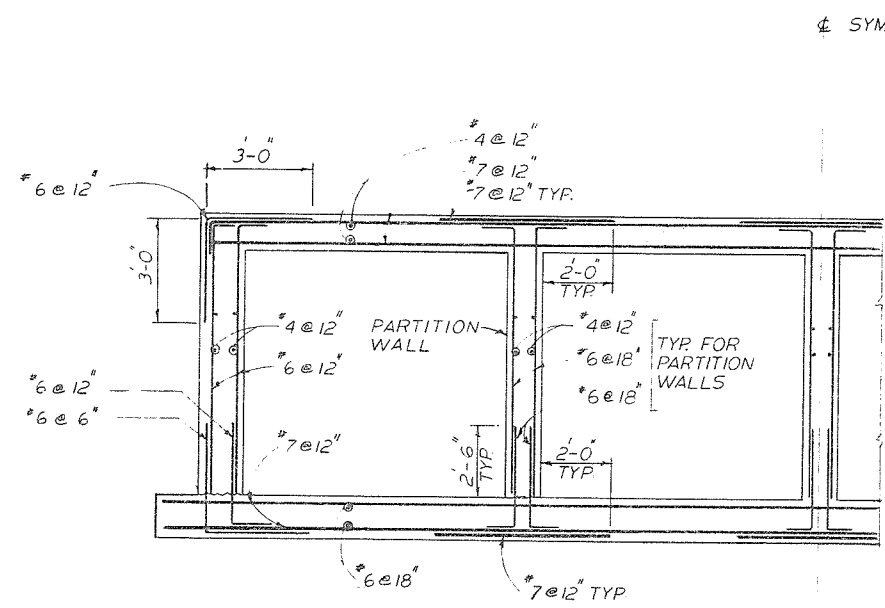
SECTION $\frac{2}{25}$

FOR GENERAL NOTES SEE DWG. 4804-3-10

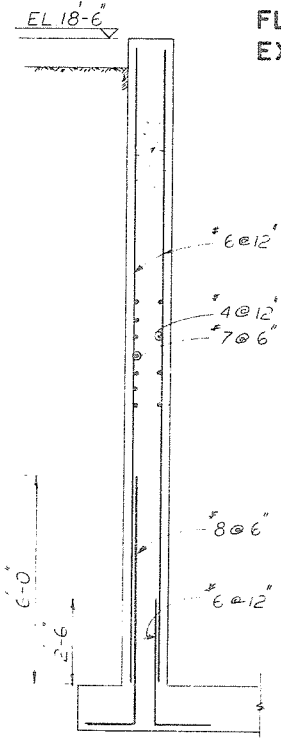
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PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-25	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Vancouver, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4				DISTRICT OF MATSQUI	
DATE 16 May 1972 APPROVED THE FRASER RIVER JOINT PROGRAM COMMITTEE		DESIGN Z.C.		SCALE 1/4" = 1'-0"	
DATE 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		DRAWN Y.K.		DATE APRIL, 1972.	
NO. 1		DATE 7-9-75		BY AS CONSTRUCTED	
REVISIONS		ENG.		DRAWING NO. 4804-3-25	
				REV. 1	

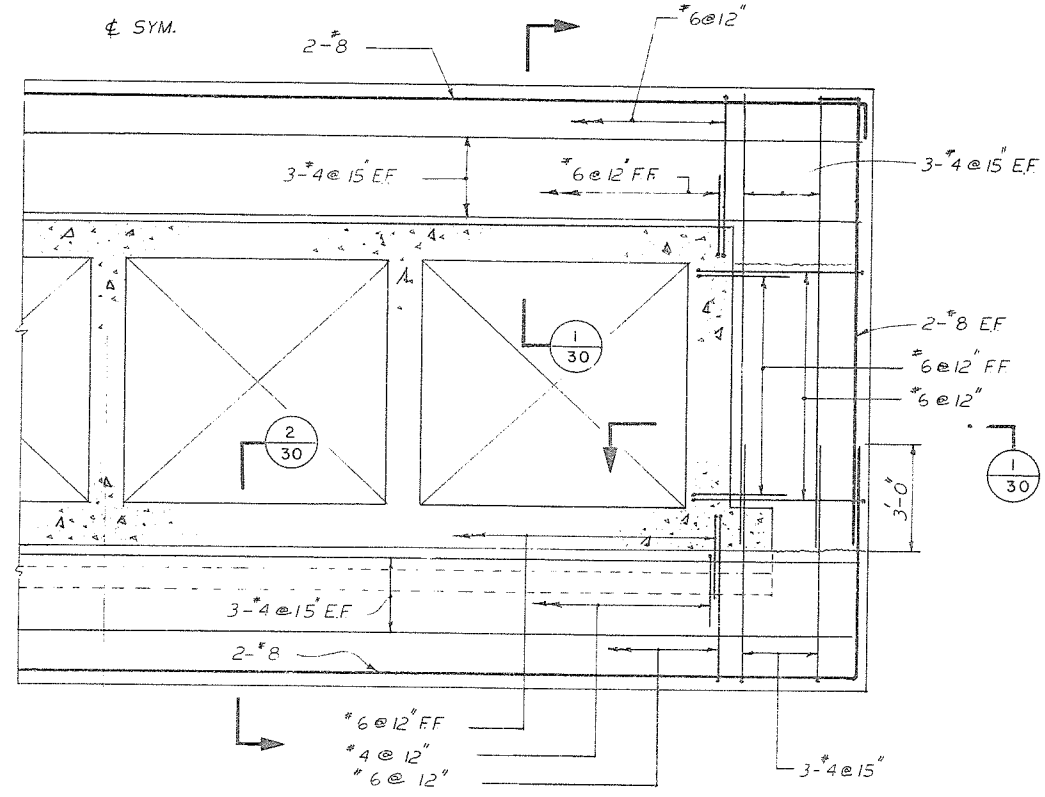
SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN



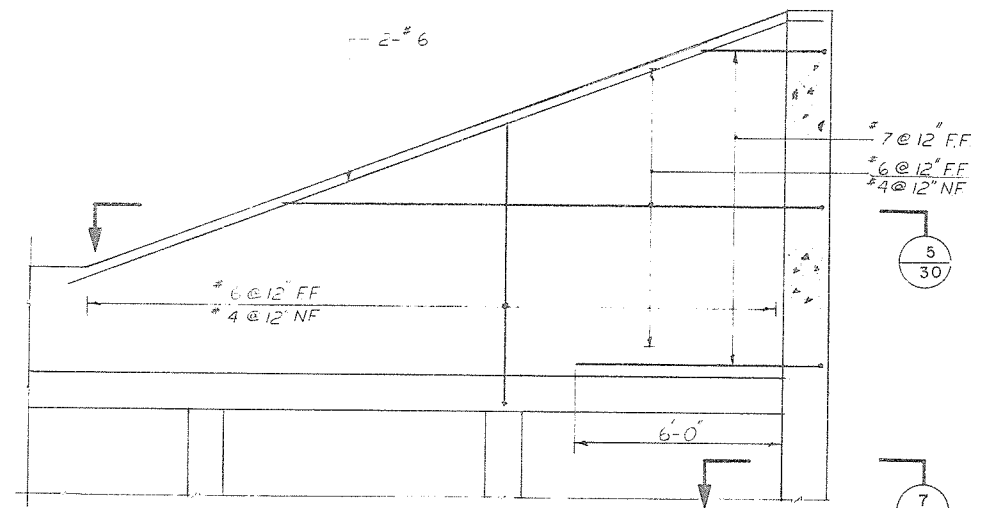
SECTION $\frac{3}{11}$ $\frac{3}{21}$
 TYPICAL SECTION - FLOODBOX NO.1
 FLOODBOX NO.2 SIMILAR REINF.
 EXCEPT ONLY ONE PARTITION WALL



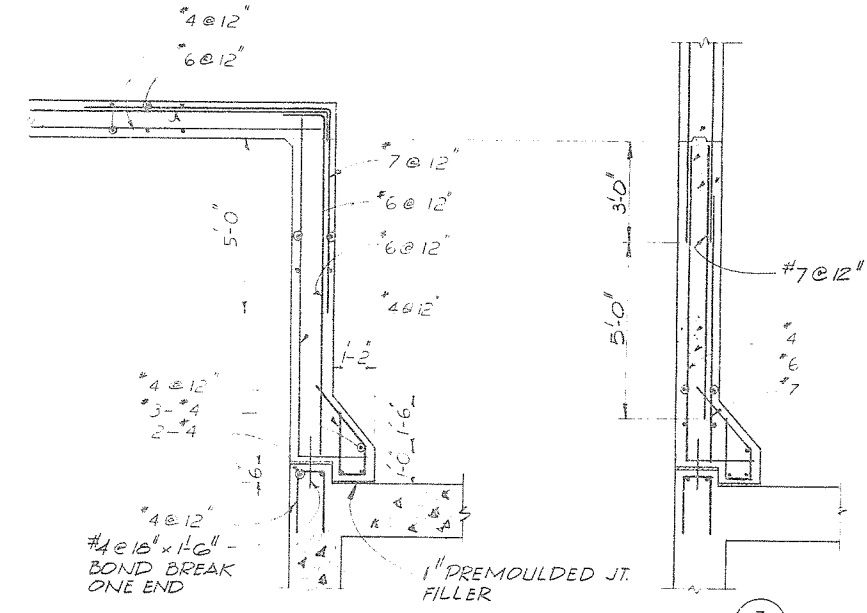
SECTION $\frac{2}{11}$ $\frac{2}{21}$



SECTION $\frac{7}{11}$ $\frac{7}{21}$
 TYPICAL CUT OFF COLLAR REINF.-FLOODBOX NO.1
 SIMILAR FOR FLOODBOX NO.2

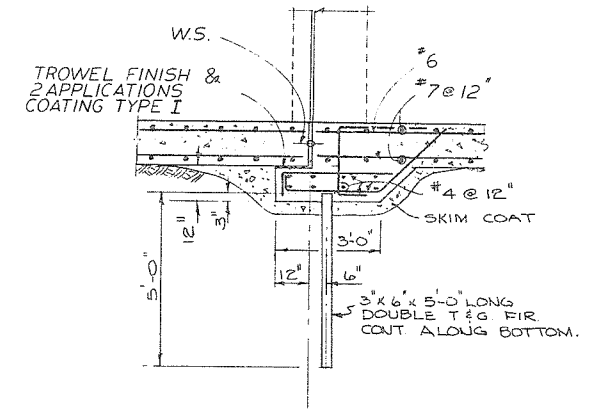


SECTION $\frac{4}{11}$

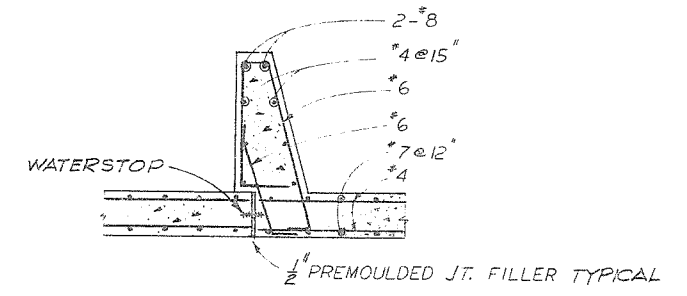


SECTION $\frac{5}{30}$

SECTION $\frac{7}{30}$



SECTION $\frac{2}{30}$

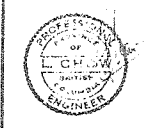


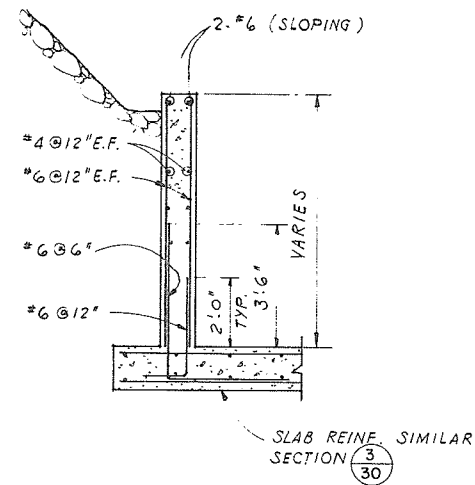
SECTION $\frac{1}{30}$

FOR GENERAL NOTES SEE
 DWG 4804-3-10

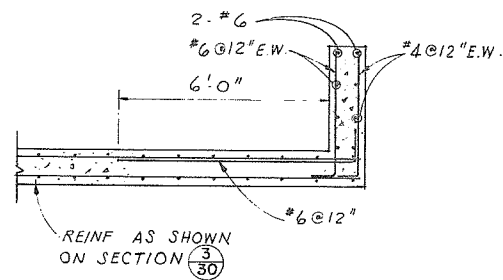
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-30
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1955 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSUJI		
TITLE FLOOD BOX DETAILS REINFORCING		SCALE 3/8"=1'-0" DRAWN M.S. CHECKED P.C. V.R. DATE APRIL 1972 APPROVED P.P.
DESIGN C.C. DRAWN M.S. CHECKED P.C. V.R. DATE 19 MAY 1972 APPROVED P.P. FOR THE PROVINCE OF BRITISH COLUMBIA		DRAWING NO. 4804-3-30 REV. 1

1	7973	AS CONSTRUCTED	ENG.
NO.	DATE	REVISIONS	ENG.

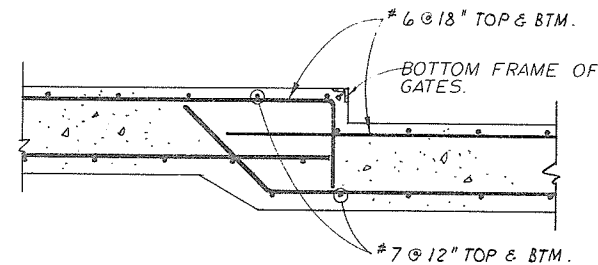




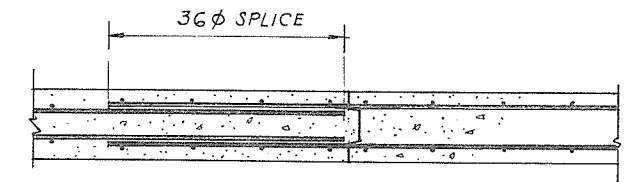
SECTION $\frac{5}{11}$ $\frac{5}{21}$
SCALE $\frac{3}{8}'' = 1'-0''$



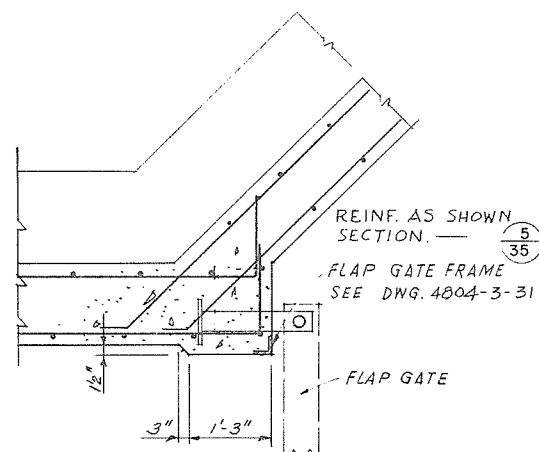
DETAIL $\frac{A}{11}$ $\frac{A}{21}$ A1/11-21 SIMILAR (EXCEPT OPPOSITE)
SCALE $\frac{3}{8}'' = 1'-0''$



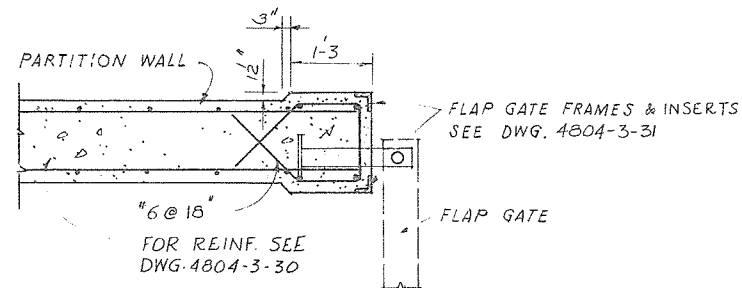
DETAIL $\frac{B}{21}$ $\frac{B}{11}$ B1/11 SIMILAR (EXCEPT OPPOSITE)
SCALE $\frac{3}{4}'' = 1'-0''$



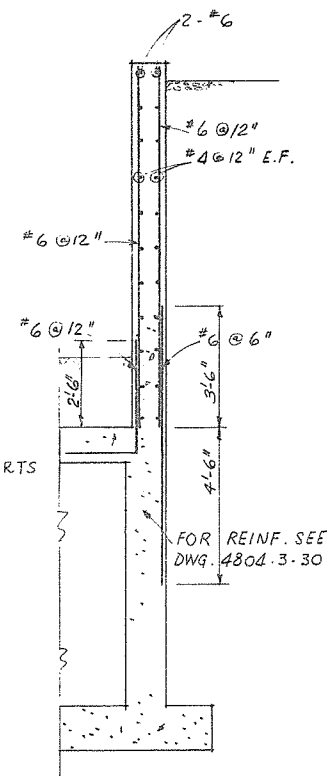
TYPICAL CONSTRUCTION JOINT ROOF, FLOOR & WALLS
SCALE $\frac{3}{4}'' = 1'-0''$



DETAIL $\frac{C}{21}$ $\frac{C}{11}$ C1/11 SIMILAR (EXCEPT OPPOSITE)
TYPICAL AT FLAP GATES AT WING WALL
SCALE $\frac{3}{4}'' = 1'-0''$



DETAIL $\frac{D}{21}$ $\frac{D}{11}$ D1/11 SIMILAR (EXCEPT OPPOSITE)
END OF PARTITION WALL AT ALL FLAP GATES
SCALE $\frac{3}{4}'' = 1'-0''$



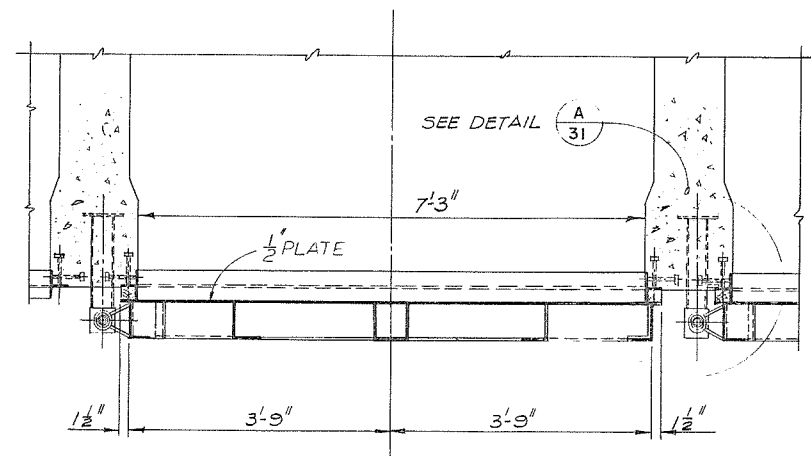
SECTION $\frac{12}{21}$
SCALE: $\frac{3}{8}'' = 1'-0''$

NOTE:
- FOR GENERAL NOTES SEE DWG. 4804-3-10

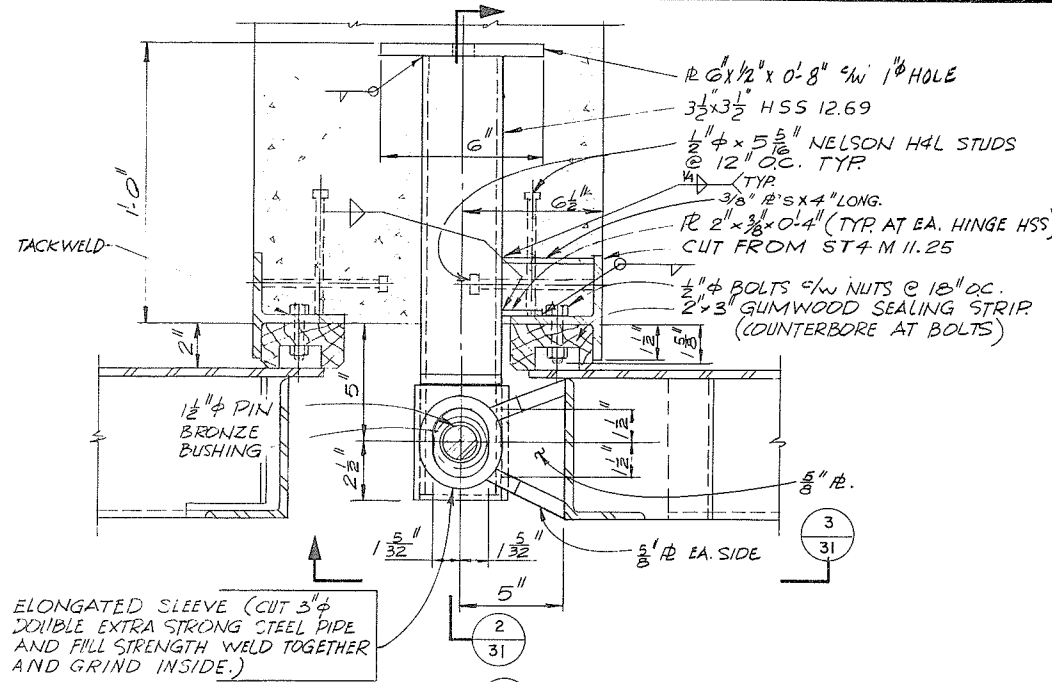
1114

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-35
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
THE FRASER RIVER JOINT PROGRAM COMMITTEE DATE 16 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		DESIGN J.C. DRAWN Y.K. CHECKED L.C. DRAWING NO. 4804-3-35
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1958 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		SCALE AS SHOWN DATE APRIL, 1972. APPROVED REV.
TITLE FLOOD BOX DETAILS REINFORCING SHEET 2		

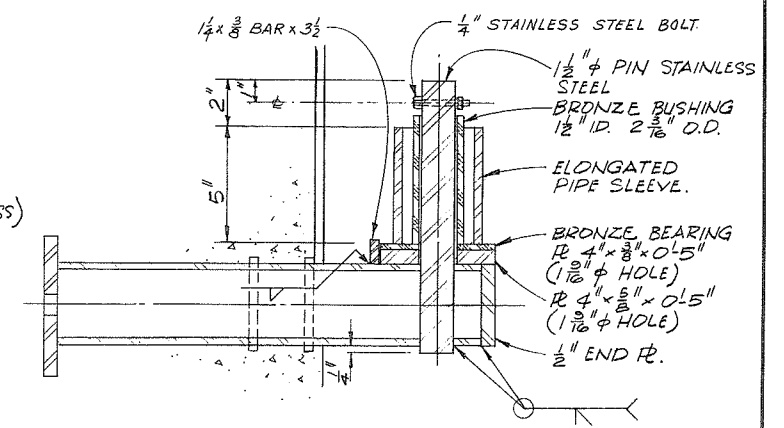
NO.	DATE	BY	REVISIONS	ENG.
			AS CONSTRUCTED	
5-973	VW			



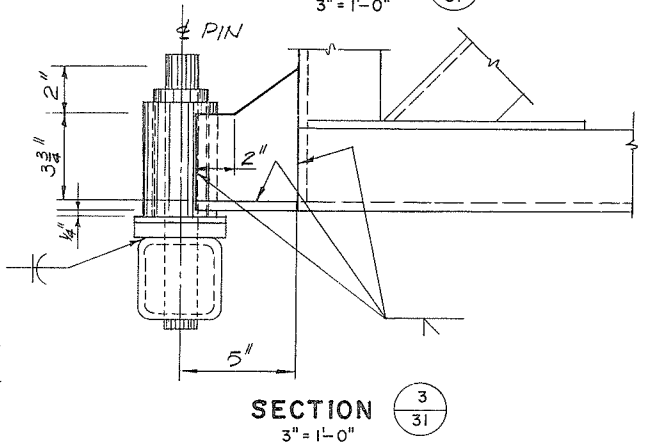
SECTION 1/31



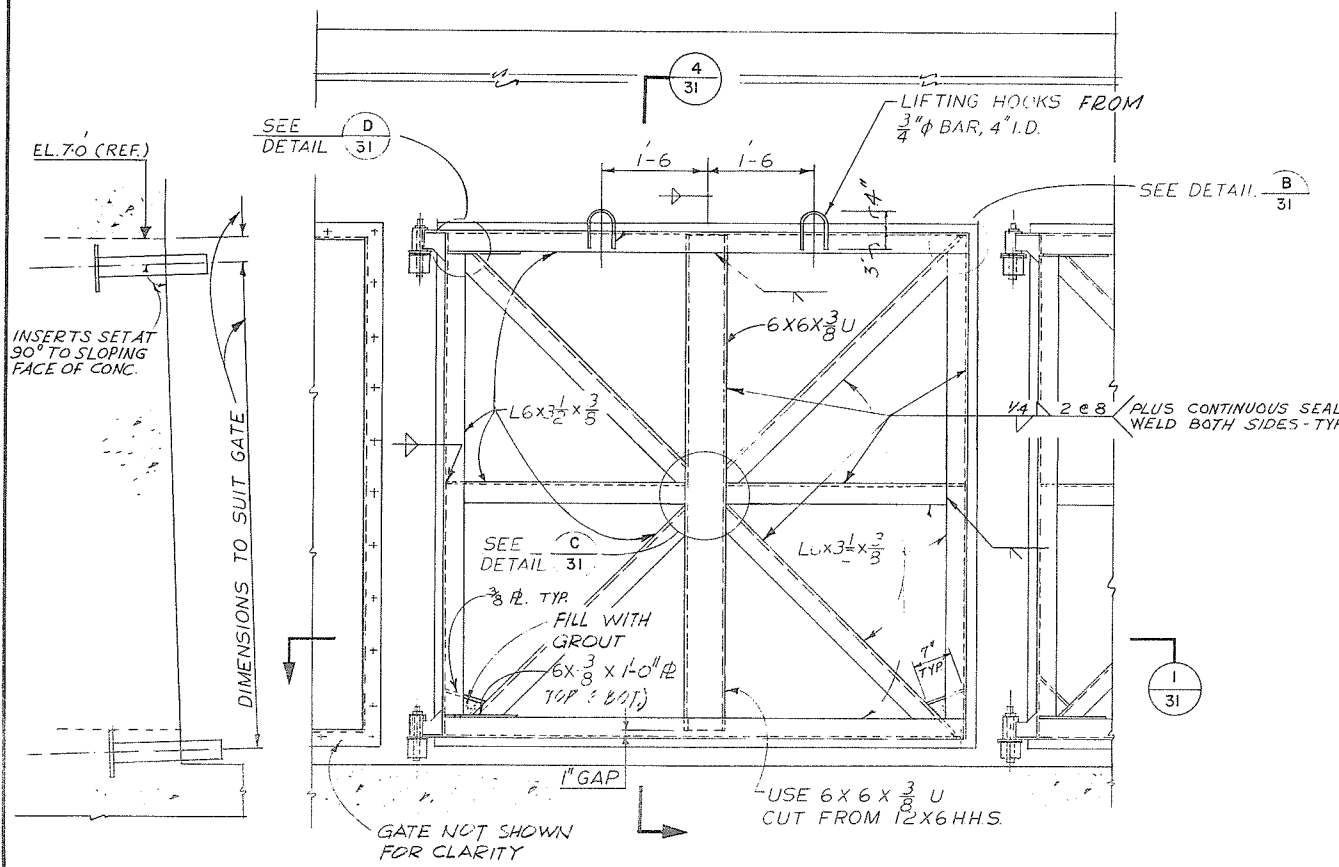
DETAIL A/31



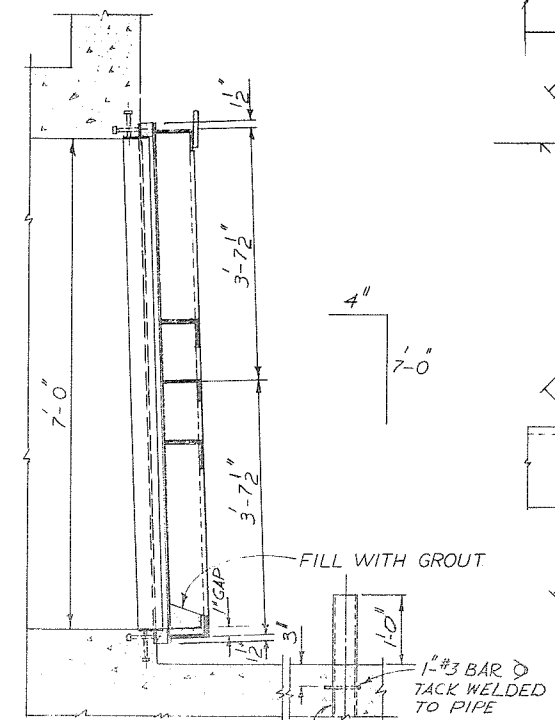
SECTION 2/31



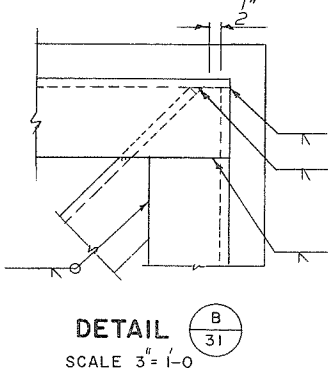
SECTION 3/31



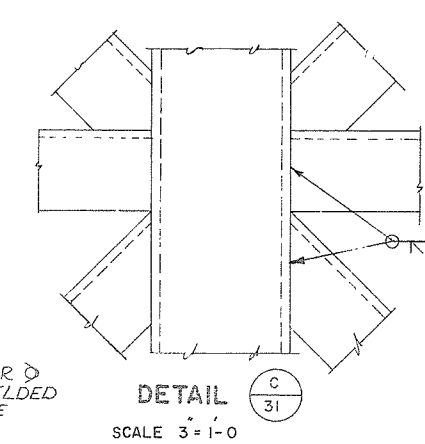
ELEVATION SCALE 3/4 = 1'-0



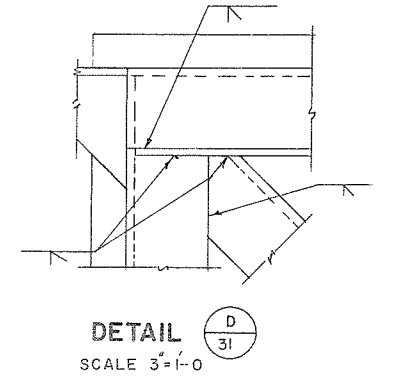
SECTION 4/31



DETAIL B/31 SCALE 3/4 = 1'-0



DETAIL C/31 SCALE 3/4 = 1'-0



DETAIL D/31 SCALE 3/4 = 1'-0

FLAP GATE FLOOD BOXES NO.1 & 2
(4 REQD. FOR FLOOD BOX NO.1)
(2 REQD. FOR FLOOD BOX NO.2)
OPPOSITE HAND

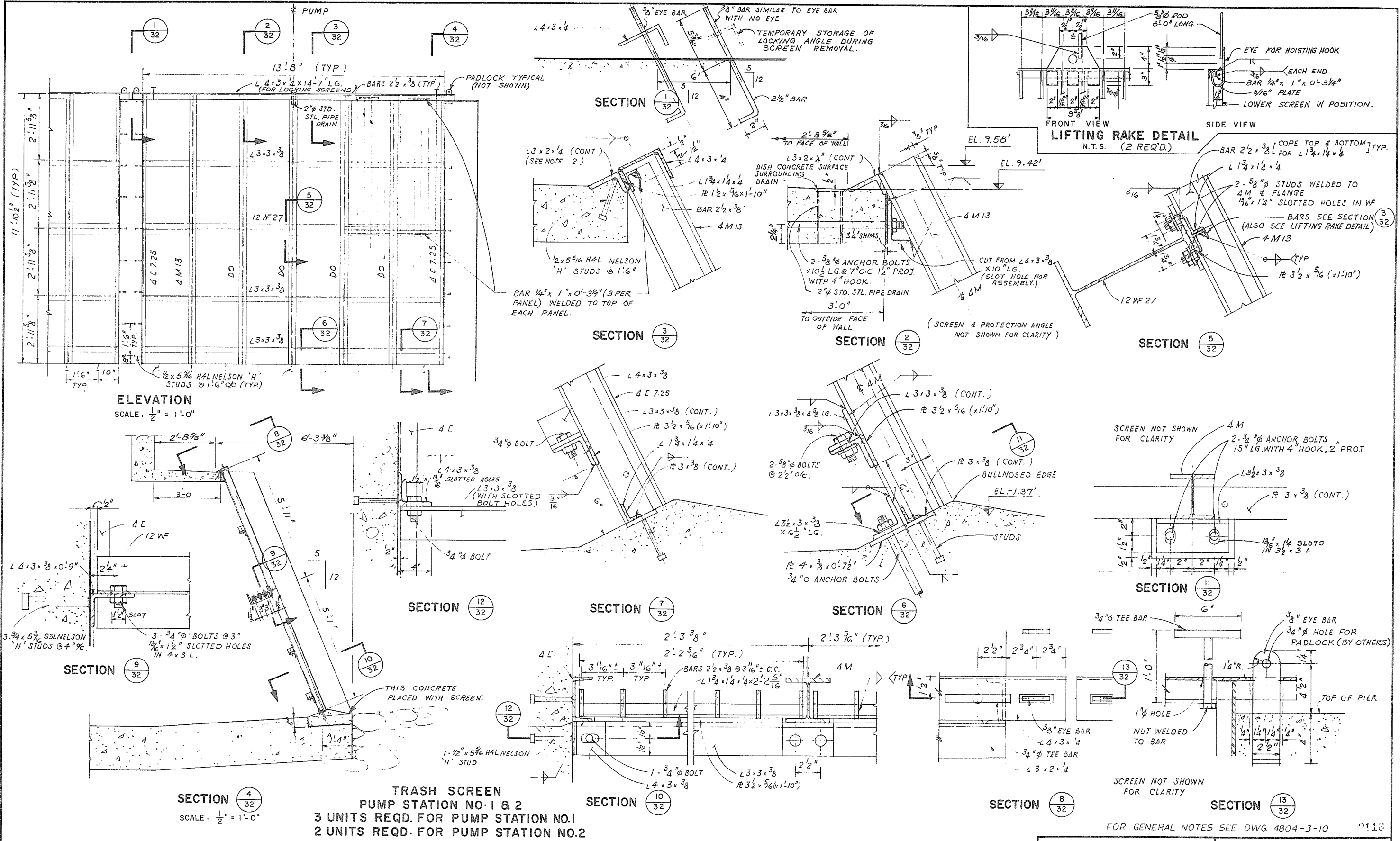
GATE PIVOT INSERTS DETAIL
SCALE 3/4 = 1'-0

NOTES:

- GATE, FRAME AND WOOD SEAL SHALL BE SHOP PRE-ASSEMBLED TO ENSURE PROPER FIT AND FUNCTIONING. THE WOOD SEAL STRIP SHALL BE TRIMMED TO AN ACCURATE FIT. THE ASSEMBLY SHALL HAVE A WARPING TOLERANCE OF NOT MORE THAN 3/16" BETWEEN A POINT ON ANY ONE CORNER AND A PLANE THROUGH CORRESPONDING POINTS ON THE REMAINING THREE CORNERS.
- THE CONTRACTOR SHALL MAINTAIN THESE TOLERANCES IN THE FIELD INSTALLATION.
- BRONZE BUSHING AND BEARING SHALL BE JOHNSON BRONZE ALLOY CC-17-72-SAE660, OR AS APPROVED.
- BEARING ASSEMBLY SHALL BE COATED WITH PARAFFIN WAX BEFORE ASSEMBLY.
- ALL WELDS SHALL BE 1/4" FILLET UNLESS OTHERWISE SHOWN.

NO.	DATE	BY	REVISIONS	ENG.
1	7-9-73	JB	AS CONSTRUCTED	

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-31
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF		
TITLE FLOOD BOX FLAP GATE DETAILS		
DESIGN L.C.	SCALE AS SHOWN	
DRAWN M.S.	DATE APRIL, 1972.	
CHECKED C.E. LP	APPROVED	
DRAWING NO. 4804-3-31	REV. 1	



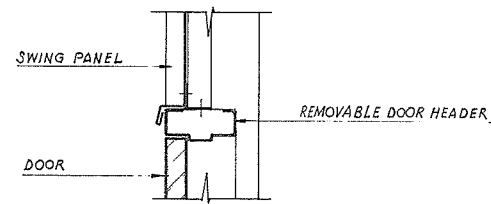
- NOTE: 1 EXCEPT SHOWN OTHERWISE ALL FILLET WELDS SHALL BE 1/4"
2. L3x2x1/4 AT TOP OF WALKWAY SHALL BE SET USING 4M GUIDE RAILS IN PLACE OR OTHER TEMPLATE.
3. GUIDE RAILS SHALL BE INSTALLED STRAIGHT AND IN A TRUE PLANE TO A TOLERANCE OF ± 1/8"

NO.	DATE	BY	REVISIONS	ENG.
1	11-9-73	AS	CONSTRUCTED	

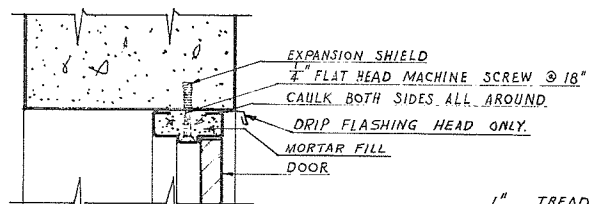


DATE 14 MAY 1974
APPROVED
THE FRASER RIVER JOINT PROGRAM COMMITTEE
DATE 14 MAY 1974
FOR THE PROVINCE OF BRITISH COLUMBIA

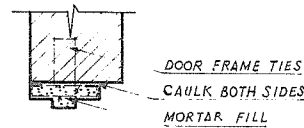
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-32
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSUJI		DESIGN L.C. DRAWN Y.K. CHECKED L.C. L.P.
TITLE TRASH SCREEN DETAILS		SCALE 3" = 1'-0" DATE APRIL 1972 APPROVED A.P.
DRAWING NO. 4804-3-32		REV. 1



HEAD

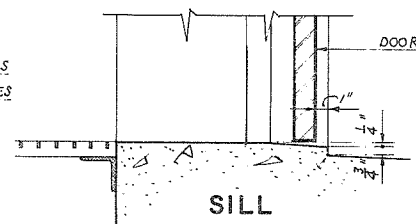


HEAD & JAMB



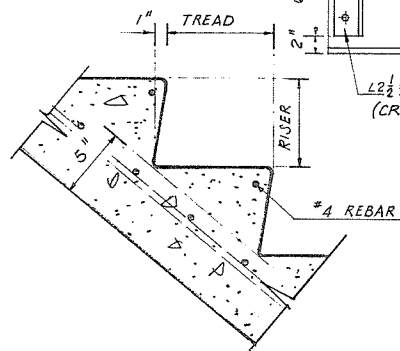
JAMB

DETAIL $\frac{A}{15}$ $\frac{A}{24}$
DOUBLE DOOR
SCALE: $\frac{1}{2}'' = 1'-0''$

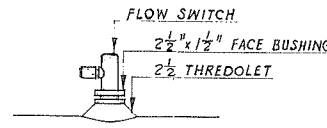


SILL

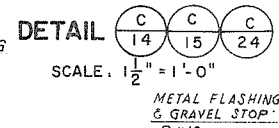
DETAIL $\frac{B}{15}$ $\frac{B}{24}$
SINGLE DOOR
SCALE: $\frac{1}{2}'' = 1'-0''$



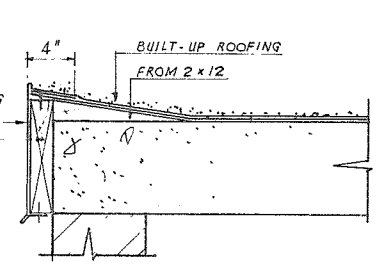
SECTION $\frac{3}{13}$ $\frac{3}{23}$
SCALE: $\frac{1}{2}'' = 1'-0''$



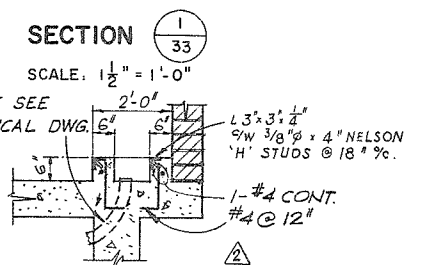
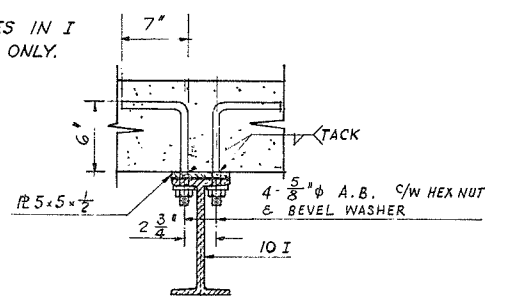
DETAIL $\frac{K}{13}$ $\frac{K}{23}$
SCALE: $\frac{1}{2}'' = 1'-0''$



DETAIL $\frac{C}{14}$ $\frac{C}{15}$ $\frac{C}{24}$
SCALE: $\frac{1}{2}'' = 1'-0''$

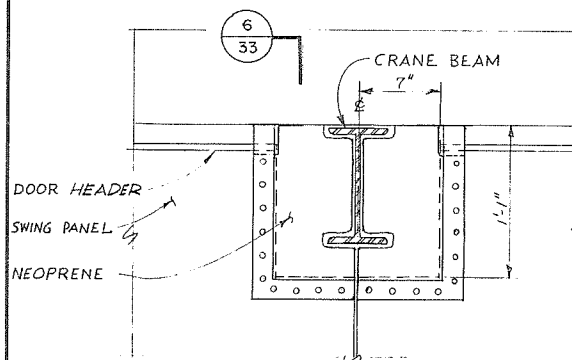


SECTION $\frac{7}{14}$ $\frac{7}{24}$
SCALE: $\frac{1}{2}'' = 1'-0''$

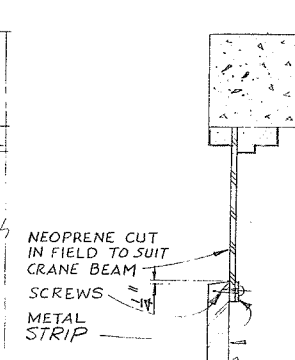


SECTION $\frac{1}{33}$
SCALE: $\frac{1}{2}'' = 1'-0''$

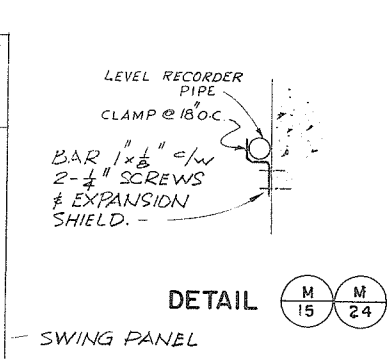
SECTION $\frac{8}{13}$ $\frac{8}{23}$
SCALE: $\frac{1}{2}'' = 1'-0''$



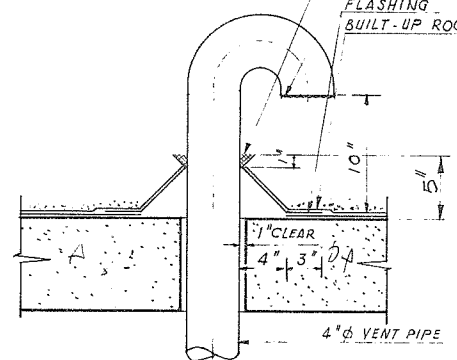
DETAIL $\frac{L}{12}$ $\frac{L}{22}$
SCALE: $\frac{1}{2}'' = 1'-0''$



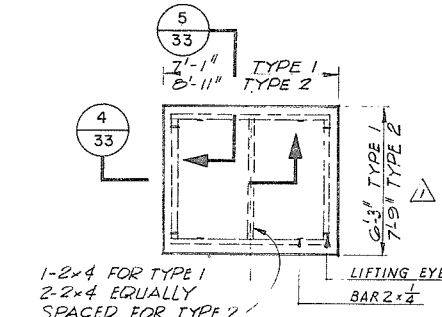
SECTION $\frac{6}{33}$
SCALE: $\frac{1}{2}'' = 1'-0''$



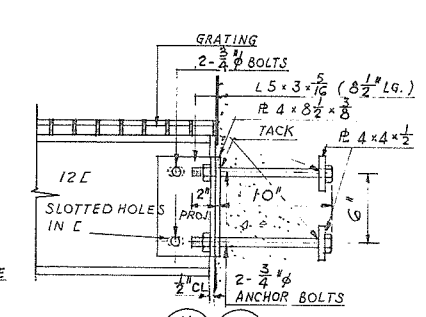
DETAIL $\frac{M}{15}$ $\frac{M}{24}$



DETAIL $\frac{G}{15}$ $\frac{G}{24}$
SCALE: $\frac{1}{2}'' = 1'-0''$

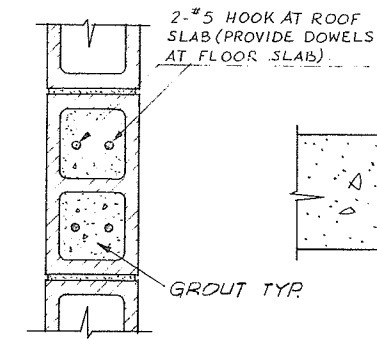


ROOF HATCH
DETAIL
N.T.S.

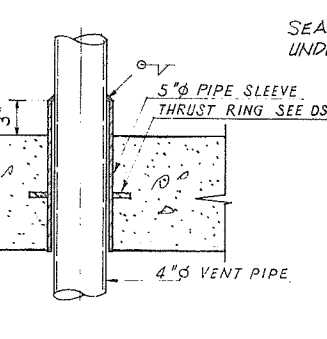


DETAIL $\frac{H}{13}$ $\frac{H}{23}$
SCALE: $\frac{1}{2}'' = 1'-0''$

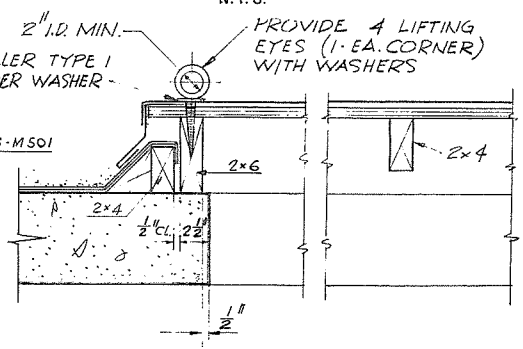
COAT COVER WITH TAR OR ASPHALT
28 GA. STEEL METAL COVER (GALV.) ON 5/8" PLYWOOD.



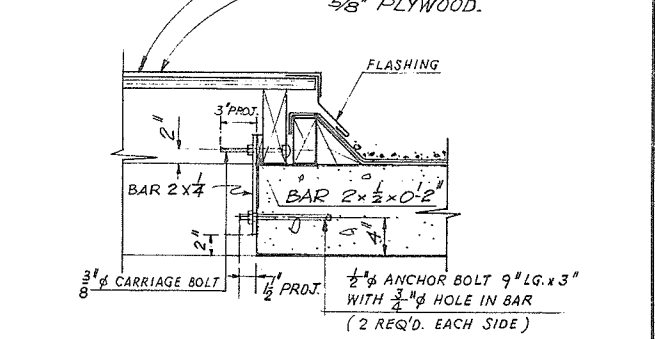
DETAIL $\frac{E}{13}$ $\frac{E}{23}$
SCALE: $\frac{1}{2}'' = 1'-0''$



DETAIL $\frac{F}{15}$ $\frac{F}{24}$
SCALE: $\frac{1}{2}'' = 1'-0''$



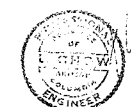
SECTION $\frac{4}{33}$
SCALE: $\frac{1}{2}'' = 1'-0''$



SECTION $\frac{5}{33}$
SCALE: $\frac{1}{2}'' = 1'-0''$

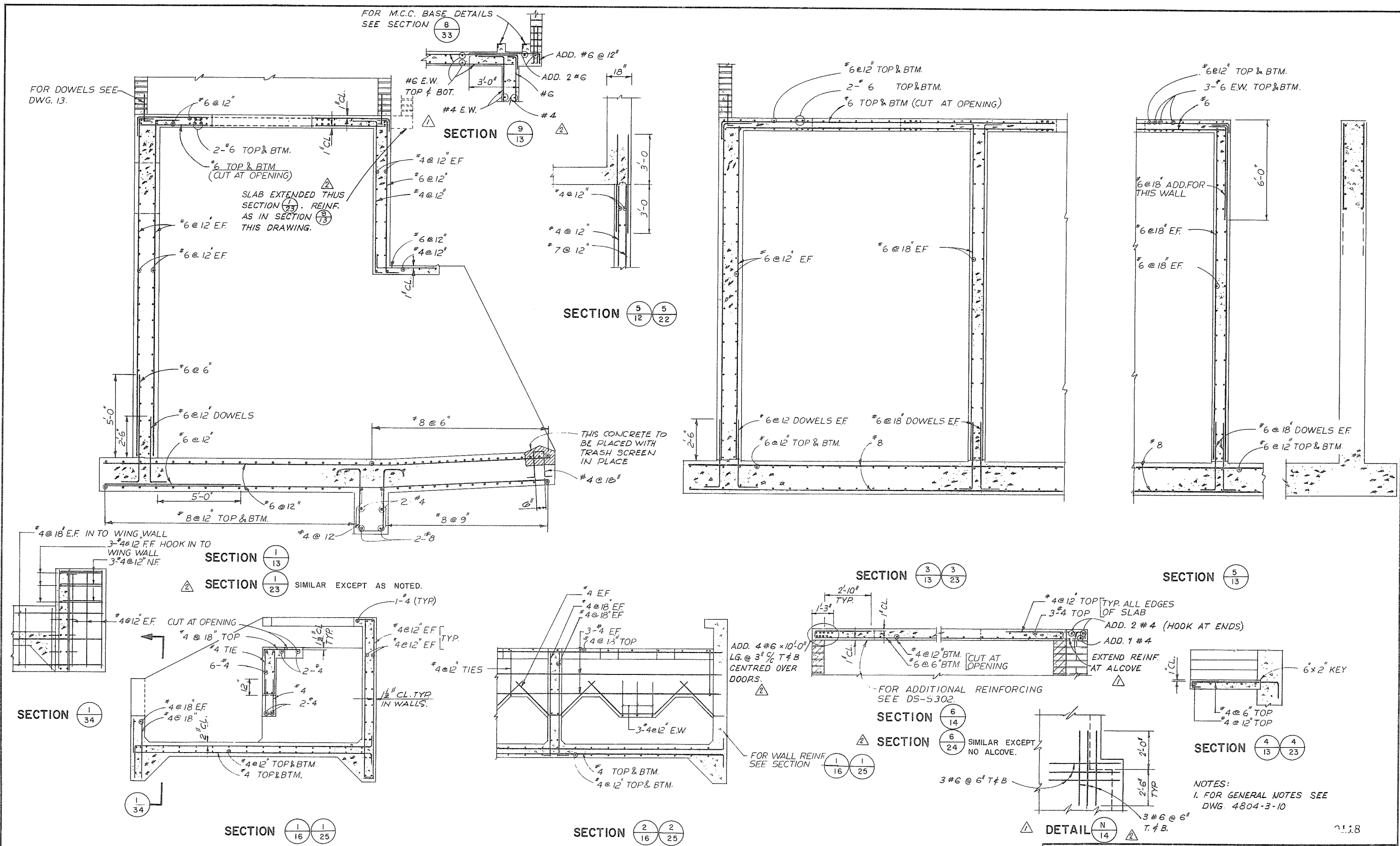
NOTE FOR GENERAL NOTES SEE DWG. 4804-3-10

NO.	DATE	BY	REVISIONS	ENG.
4	11-9-73	AS	AS CONSTRUCTED	
3	26-10-72	PW	DIMENSIONS REVISED - DETAIL 'C'	L.C.
2	20-10-72	PW	SECT. 8 REVISED - DIM. ADDED DETAIL 'C'	L.C.
1	10/12/72	DES	ROOF HATCH DETAIL DIM. CHANGED	L.C.



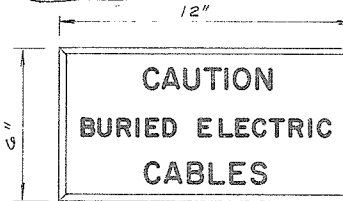
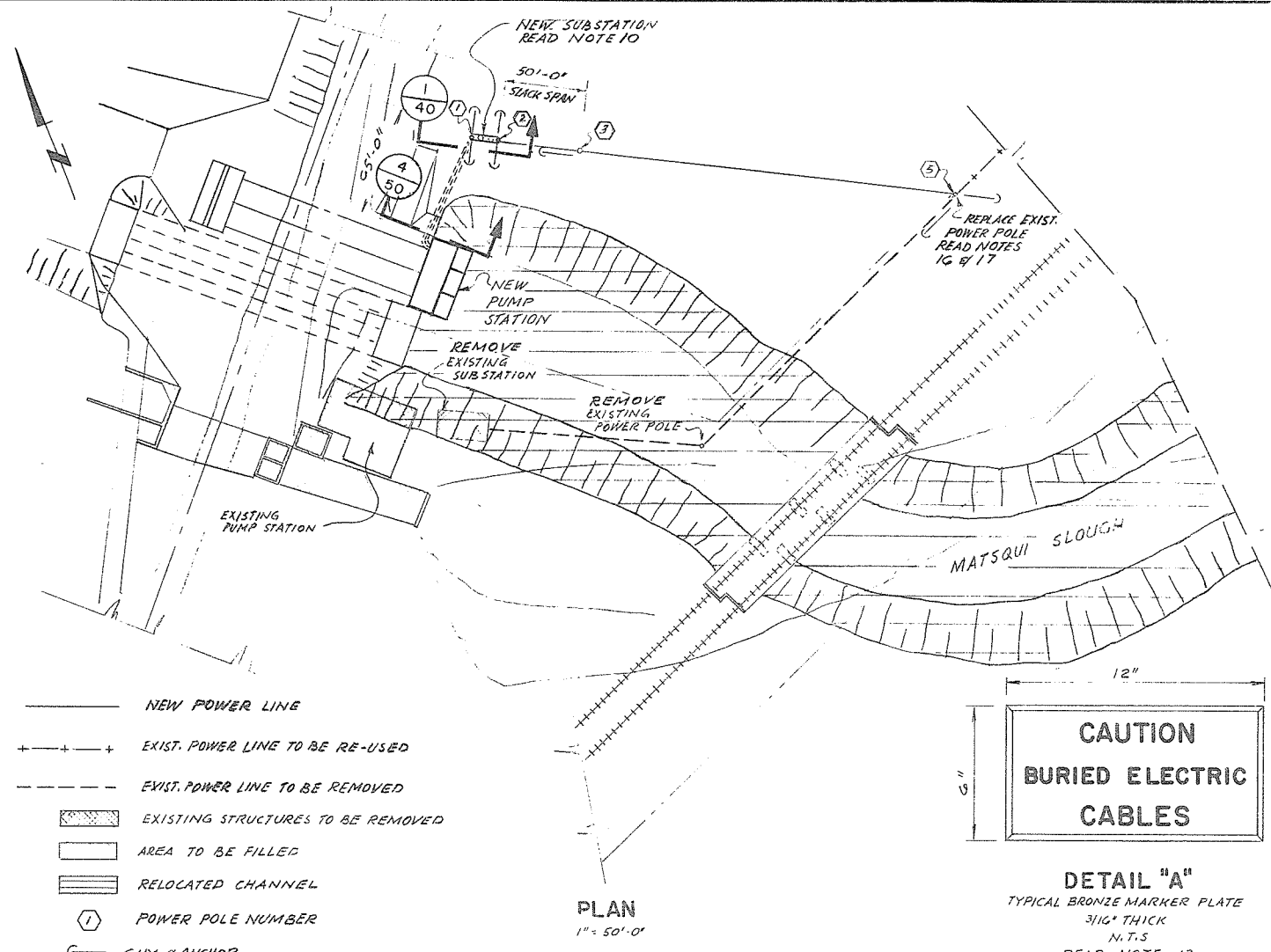
DATE 16 May 1972
APPROVED
THE FRASER RIVER JOINT PROGRAM COMMITTEE
DATE 19 May 1972
APPROVED
FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-33
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSUJI		
TITLE PUMP STATION NO. 1 & 2 TYPICAL DETAILS		DESIGN SCALE AS SHOWN
DRAWN DATE APRIL 1972		CHECKED APPROVED
DRAWING NO. 4804-3-33		REV. 4



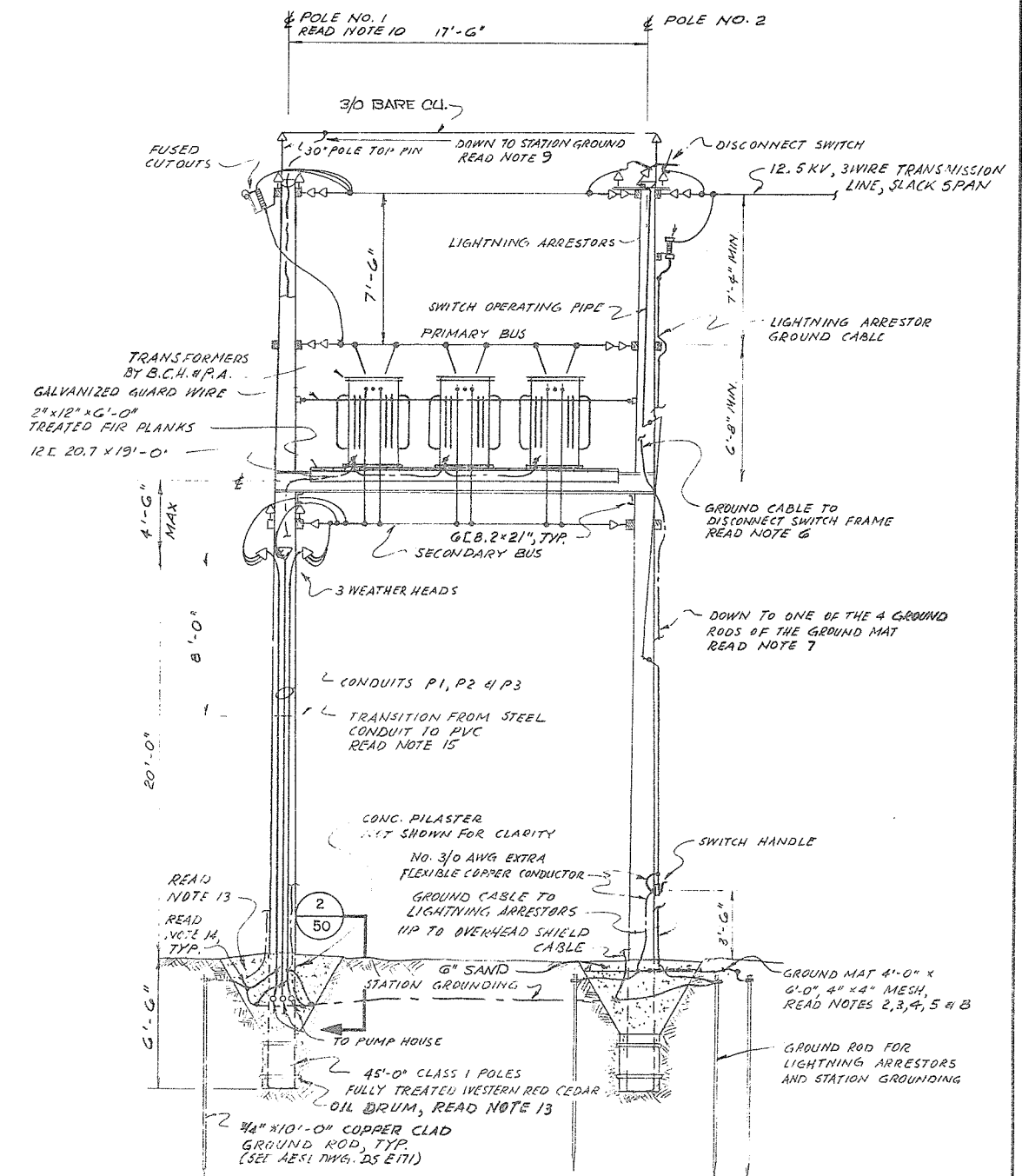
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-34
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. <small>Consulting Engineers VANCOUVER, B.C.</small>
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1969 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSUQUI		DESIGN L.C. DRAWN M.S. CHECKED L.C. L.P. DATE 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA
TITLE PUMP STATION NO. 1 & NO. 2 AND PUMP DISCHARGE STRUCTURE REINFORCING		SCALE 3/8" = 1'-0" DATE APRIL, 1972. APPROVED DRAWING NO. 4804-3-34 REV. 3

NO.	DATE	BY	REVISIONS	ENG.
3	11-9-73	JB	AS CONSTRUCTED	
2	20 OCT. 1972	P.W.	SECTIONS 6 & 1/23 REVISED, SECTION 9/23 & DETAIL N/24 DELETED	L.C.
1	20 OCT. 1972	P.W.	SECTION 9 & DETAIL N' ADDED - SECTION 6 REVISED	L.C.

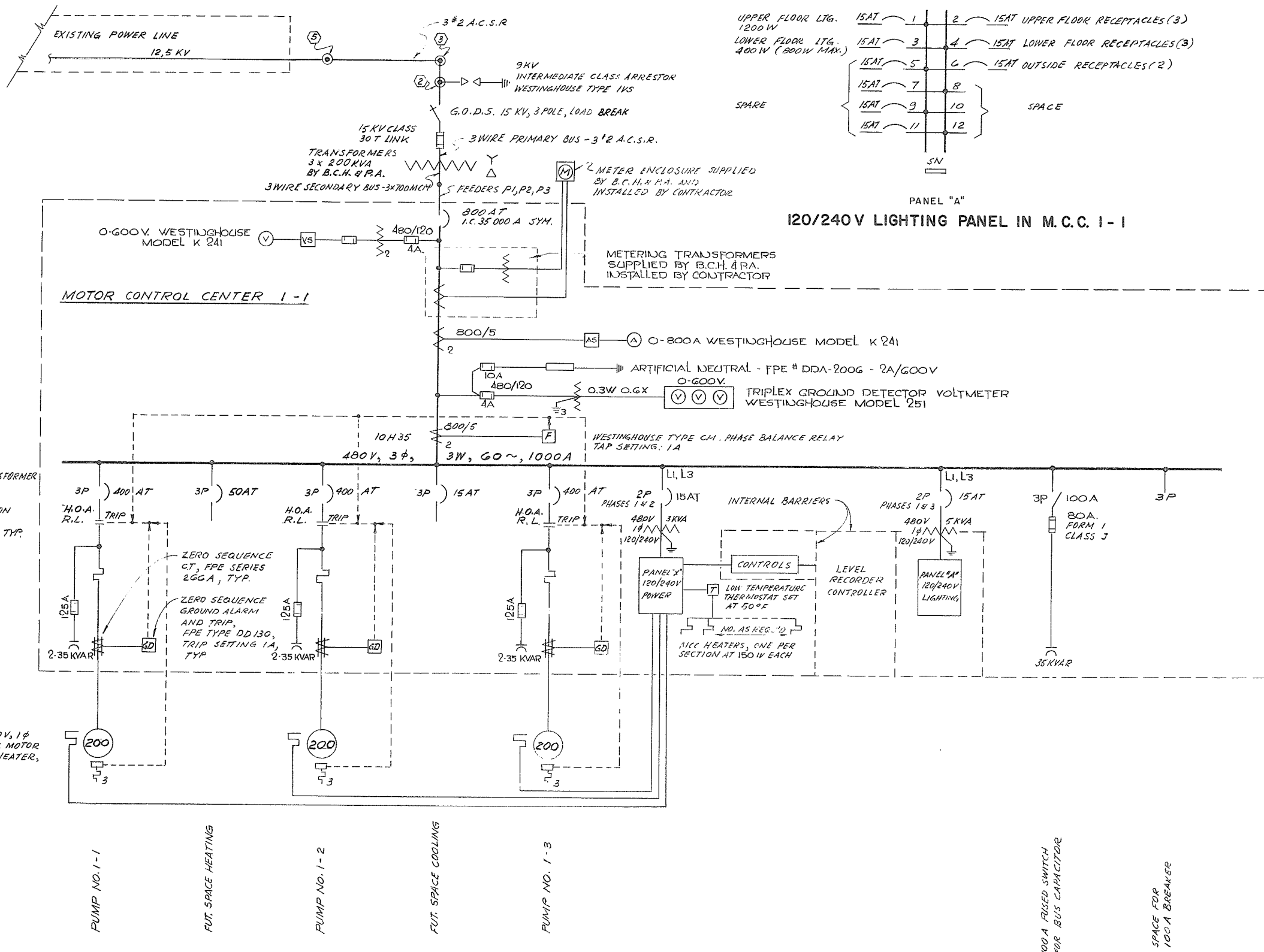


NOTES

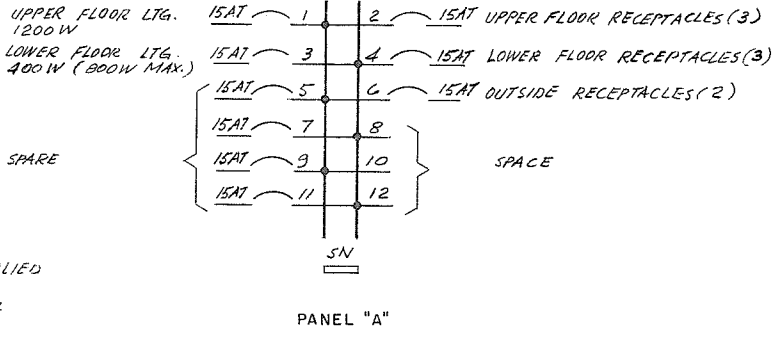
- ALL GROUND CONDUCTORS SHALL BE #3/0 AWG, BARE, SOFT DRAWN COPPER CABLES.
- GROUND MAT TO BE OF 0.25" DIAMETER WELDED STEEL MESH, BURIED 3" BELOW SURFACE IN 6" OF SAND SPECIALLY TREATED TO DISCOURAGE GROWTH OF VEGETATION.
- ONE GROUND ROD TO BE INSTALLED AND WELDED TO EACH CORNER OF THE GROUND MAT. PROVIDE AND INSTALL ONE GROUND CABLE CONNECTING CLAMP ON 2 OF THE 4 GROUND RODS.
- CONNECT SWITCH OPERATING ROD, HANDLE BASE AND ONE GROUND ROD OF THE GROUND MAT TOGETHER WITH #3/0 AWG EXTRA FLEXIBLE BARE COPPER CONDUCTOR AS SHOWN.
- CONNECT SECOND GROUND ROD OF GROUND MAT TO 15KV DISCONNECT SWITCH FRAME WITH #3/0 AWG COPPER GROUND CONDUCTOR.
- IF 15KV, 3 POLE, GANG OPERATED DISCONNECT SWITCH CONSISTS OF 3 SINGLE FRAMES, INTERCONNECT THE SINGLE FRAMES WITH #3/0 AWG COPPER GROUND CONDUCTOR AND AS PER NOTE 4.
- ALL GROUNDING CONDUCTORS ON WOOD POLES SHALL BE PROTECTED BY WOOD MOULDING.
- ORIENTATION OF GROUND MAT:
IF SWITCH HANDLE MOTION IS IN HORIZONTAL PLANE,
6'-0" BASE LINE OF MAT AT POLE
IF SWITCH HANDLE MOTION IS IN VERTICAL PLANE,
4'-0" BASE LINE OF MAT AT POLE
- SHIELD WIRE GROUND CONDUCTOR SHALL BE INSULATED BY PVC CONDUIT BETWEEN CABLE CONNECTOR AND POLE AS IT RUNS THROUGH DISCONNECT SWITCH MECHANISM.
- E OF POLE NO. 1 SHALL BE LINED-UP WITH FACE LINE OF NEW PUMP HOUSE.
- B.C.H.#P.A. WILL SUPPLY THE TRANSFORMERS
- UNDERGROUND CABLE RUNS SHALL BE MARKED AS FOLLOWS:
a) BRONZE MARKER PLATES AS PER DETAIL "A", SET IN CAST-IN-PLACE CONG. BLOCK 12"W X 18"D PROTRUDING 3" ABOVE FINISHED GRADE. SHALL BE INSTALLED NEAR THE PUMP HOUSE & THE SUBSTATION & AT CHANGE OF CABLE DIRECTION. BRONZE MARKER PLATES AVAILABLE FROM:
GLOBE FOUNDRY LTD, BURNABY, B.C.
b) BETWEEN SUBSTATION & PUMP HOUSE A CONTINUOUS 6" WIDE, ORANGE, PLASTIC TAPE WITH THE MARKING: "DANGER ELECTRICAL POLE" LINE BELOW" SHALL BE BURIED IN THE CABLE TRENCH 12" BELOW RE-ESTABLISHED GRADE. TAPE IS OBTAINABLE FROM: A.B. CHANGE CO OF CANADA LTD, NORTH VANCOUVER, B.C.
c) THE CONCRETE FOR THE CONG. ENCASEMENT OF CABLE RUNS SHALL BE DYED RED BEFORE IT IS PLACED.
- POLE TO BE SET IN GROUND BY MEANS OF OIL DRUM, FILL DRUM WITH CONCRETE. CONG ABOVE DRUM TO BE FILLED WITH CONCRETE. CONG SURFACE TO BE SMOOTH AND SLOPED AWAY FROM POLE FOR DRAINAGE.
- UNDERGROUND GROUNDING CABLE CONNECTIONS SHOWN ARE DIAGRAMMATIC ONLY. ALL CONNECTIONS SHALL BE ACCESSIBLE FOR INSPECTION
- TOP 8'-0" OF SERVICE CONDUITS AND WEATHERHEADS SHALL BE RIGID PVC.
- REPLACE POLE 5 EAST OF THE EXISTING POLE.
- DISCARD EXISTING SWITCH ON POLE 5.



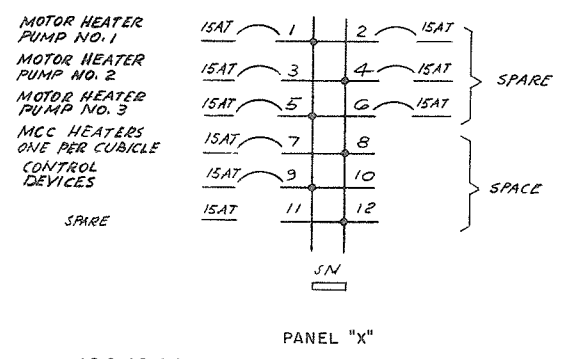
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-40
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers		VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL TGS AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE	PUMP STATION NO. 1 SITE PLAN & POWER SUPPLY	
DESIGN D.A. COLLEMAN	SCALE AS SHOWN	
DRAWN H.S. MEIZNER	DATE APRIL 1972	
CHECKED [Signature]	APPROVED [Signature]	
DRAWING NO. 4804-3-40	REV. 1	



SINGLE LINE DIAGRAM



- LEGEND**
- [F] = PHASE FAILURE RELAY
 - [GD] = GROUND DETECTOR RELAY
 - H.O.A = HAND-OFF-AUTO SELECTOR SWITCH
 - A.T. = AMPERE TRIP (THERMAL)
 - R.L. = RUNNING LIGHT
 - H.R. = HOUR METER
 - (1) = POWER POLE NUMBER



PANEL "X"
120/240V POWER PANEL IN M.C.C. 1-1

AUTO-TRANSFORMER STARTERS CLOSED TRANSITION 50% TAP SETTING, TYP.

300W, 120V, 1φ INTERNAL MOTOR SPACE HEATER, TYP.

PUMP NO. 1-1

FUT. SPACE HEATING

PUMP NO. 1-2

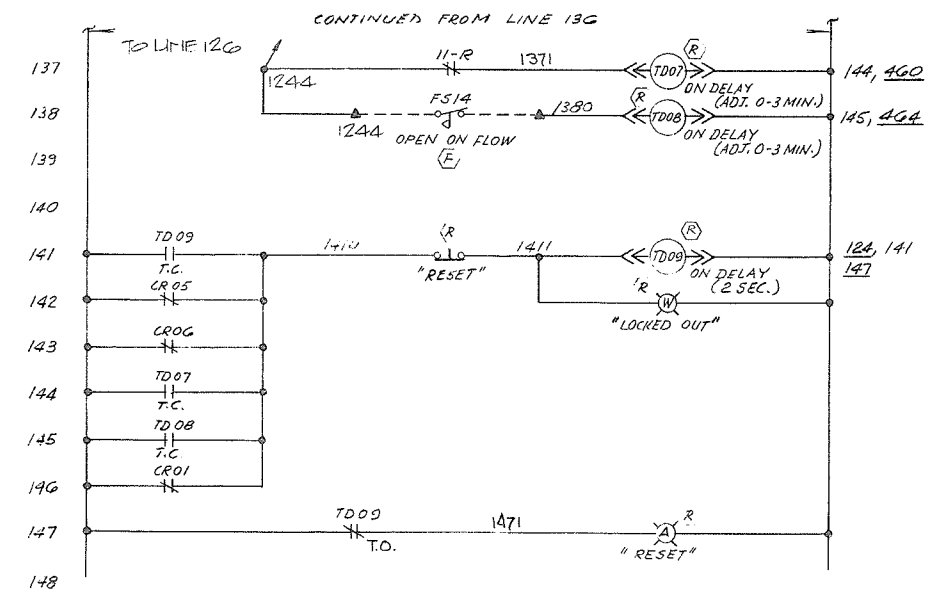
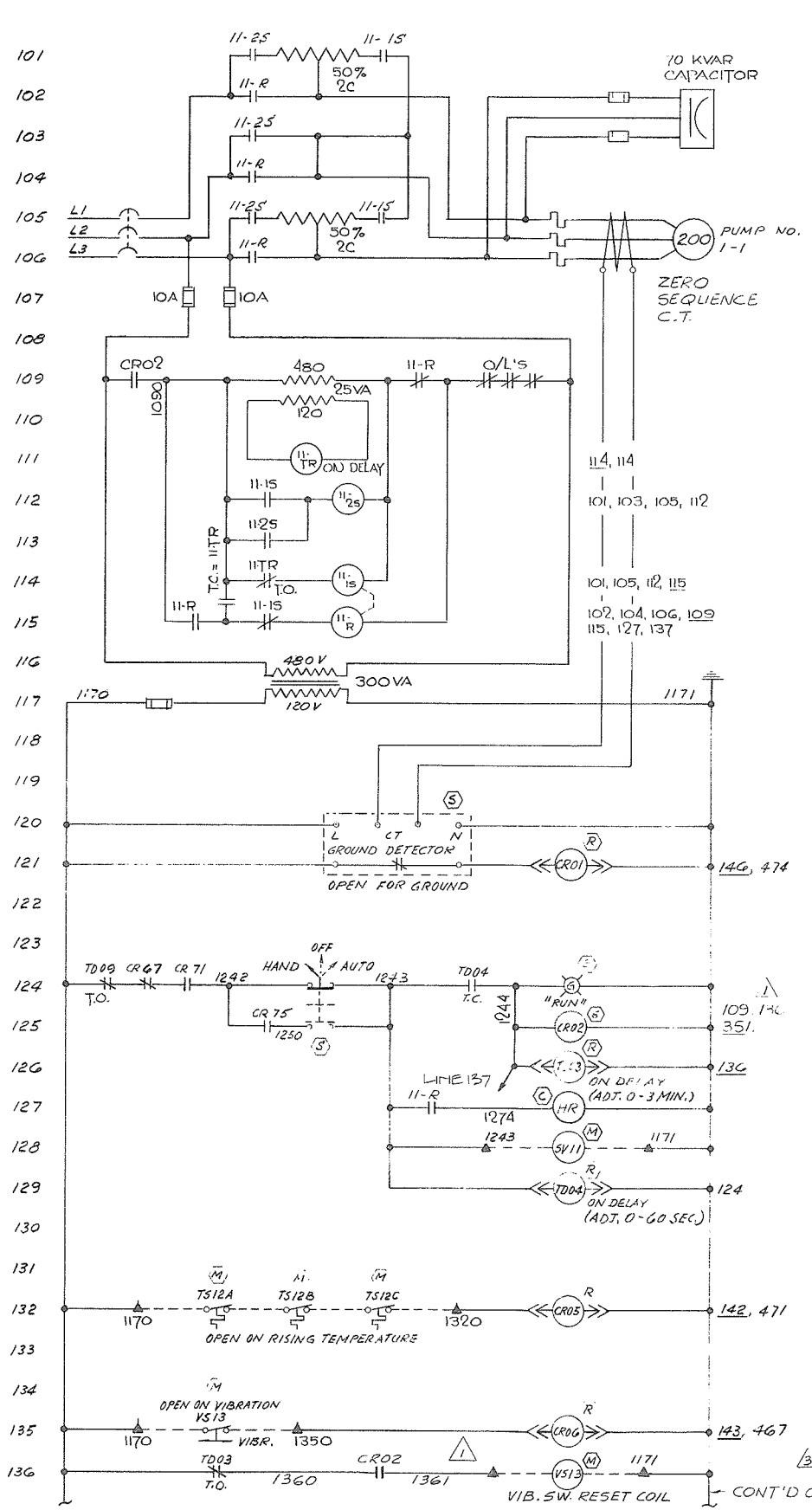
FUT. SPACE COOLING

PUMP NO. 1-3

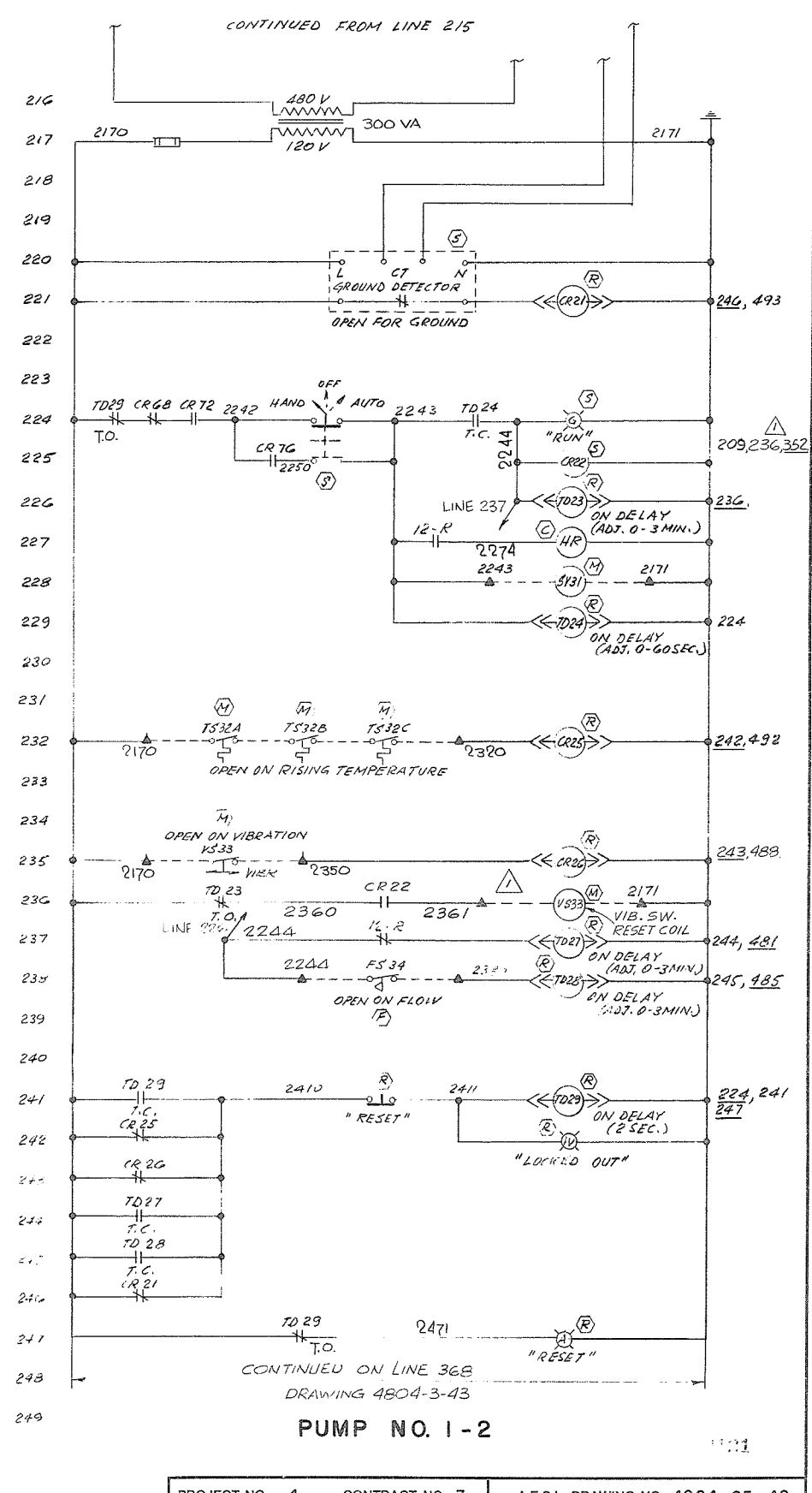
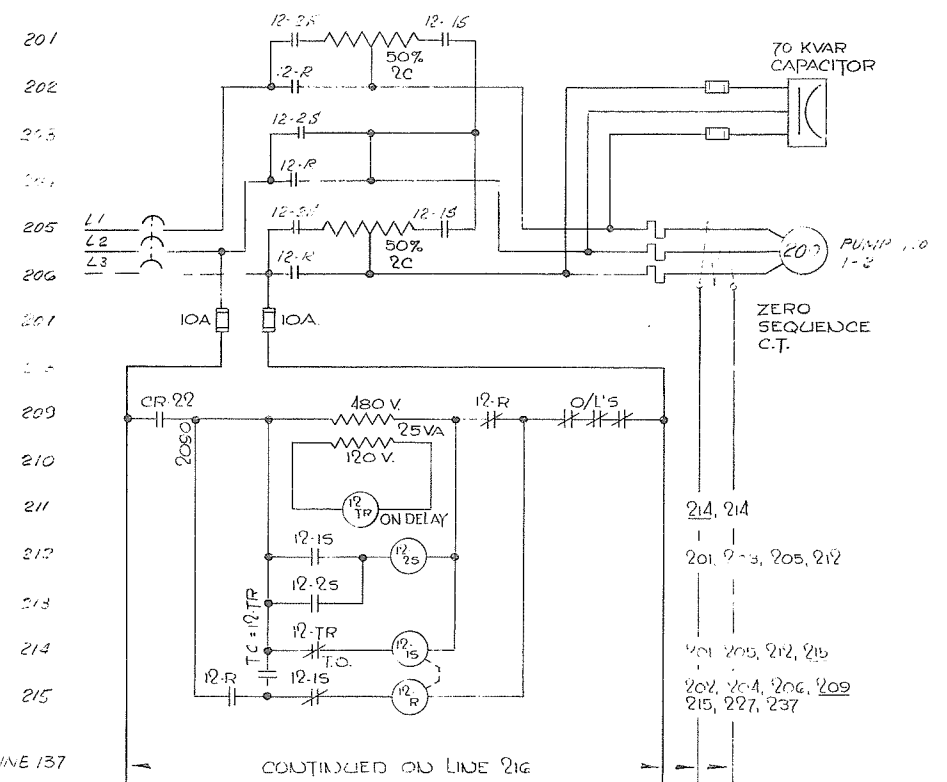
100A FUSED SWITCH FOR BUS CAPACITOR

SPACE FOR 100A BREAKER

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-41	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1989 AGREEMENT PROJECT NO. 4				TITLE PUMP STATION NO. 1 SINGLE LINE DIAGRAM	
DESIGN D.A. COLEMAN		SCALE N/A		DATE APRIL 1972	
DRAWN H.J. WATSON		DATE APRIL 1972		CHECKED [Signature]	
DATE 19 May 1972		APPROVED [Signature]		DRAWING NO. 4804-3-41	
FOR THE PROVINCE OF BRITISH COLUMBIA		APPROVED [Signature]		REV. 1	
NO.	DATE	BY	AS CONSTRUCTED	REVISIONS	ENG.
1	9-26-73	D.J.P.			



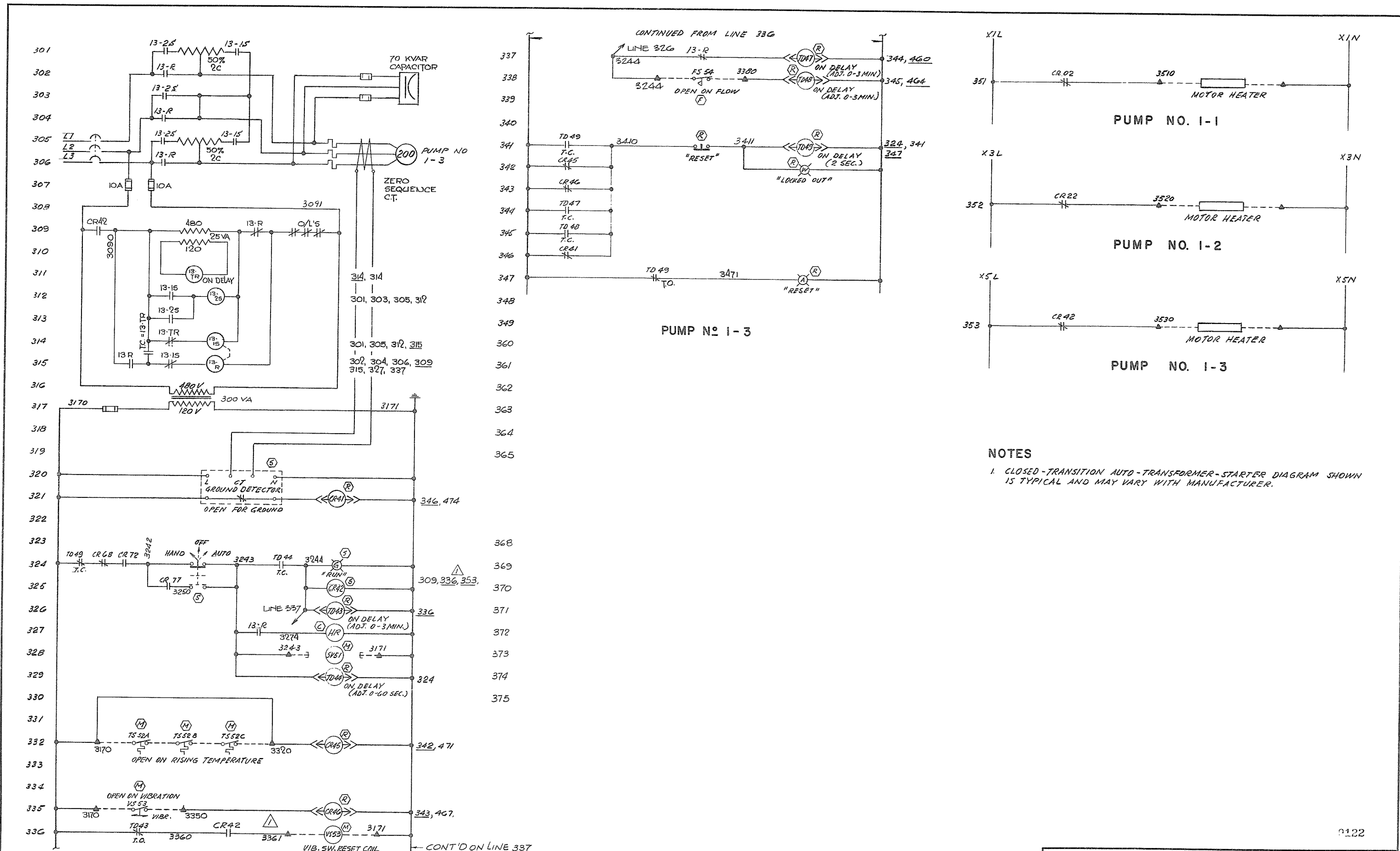
PUMP NO. 1-1



PUMP NO. 1-2

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-42
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4		DESIGN D.A. COLEMAN DRAWN H.J. METZGER CHECKED J.L.S. APPROVED
TITLE PUMP STATION NO. 1 MOTOR SCHEMATICS - SHEET 1		SCALE N/A DATE APRIL 1972 APPROVED
DRAWING NO. 4804-3-42		REV. 3

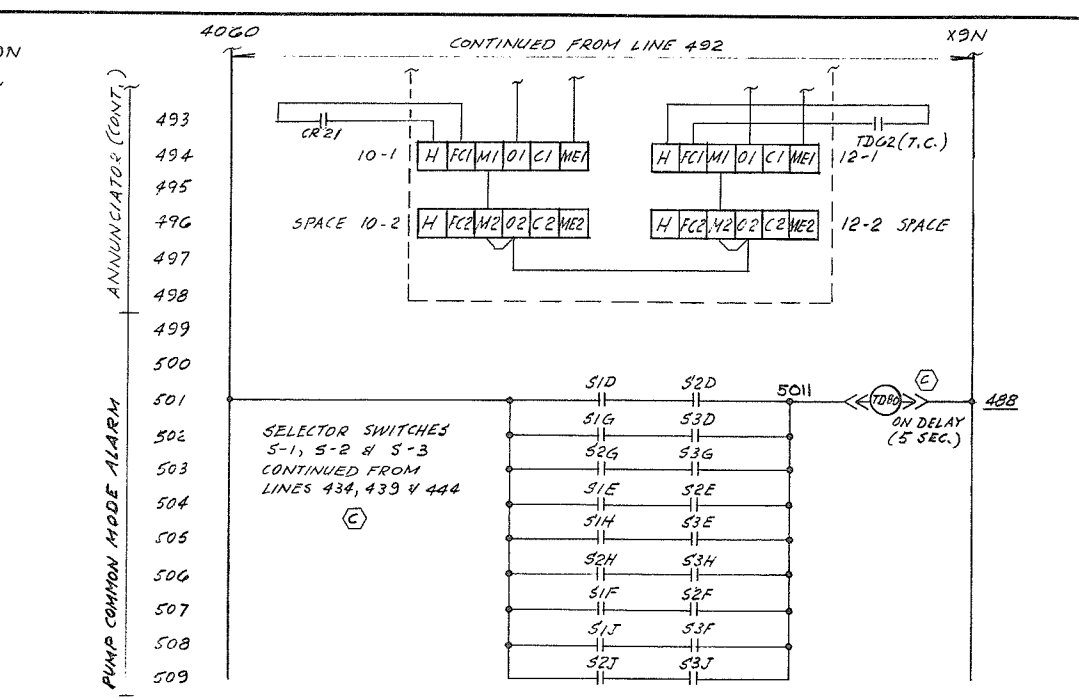
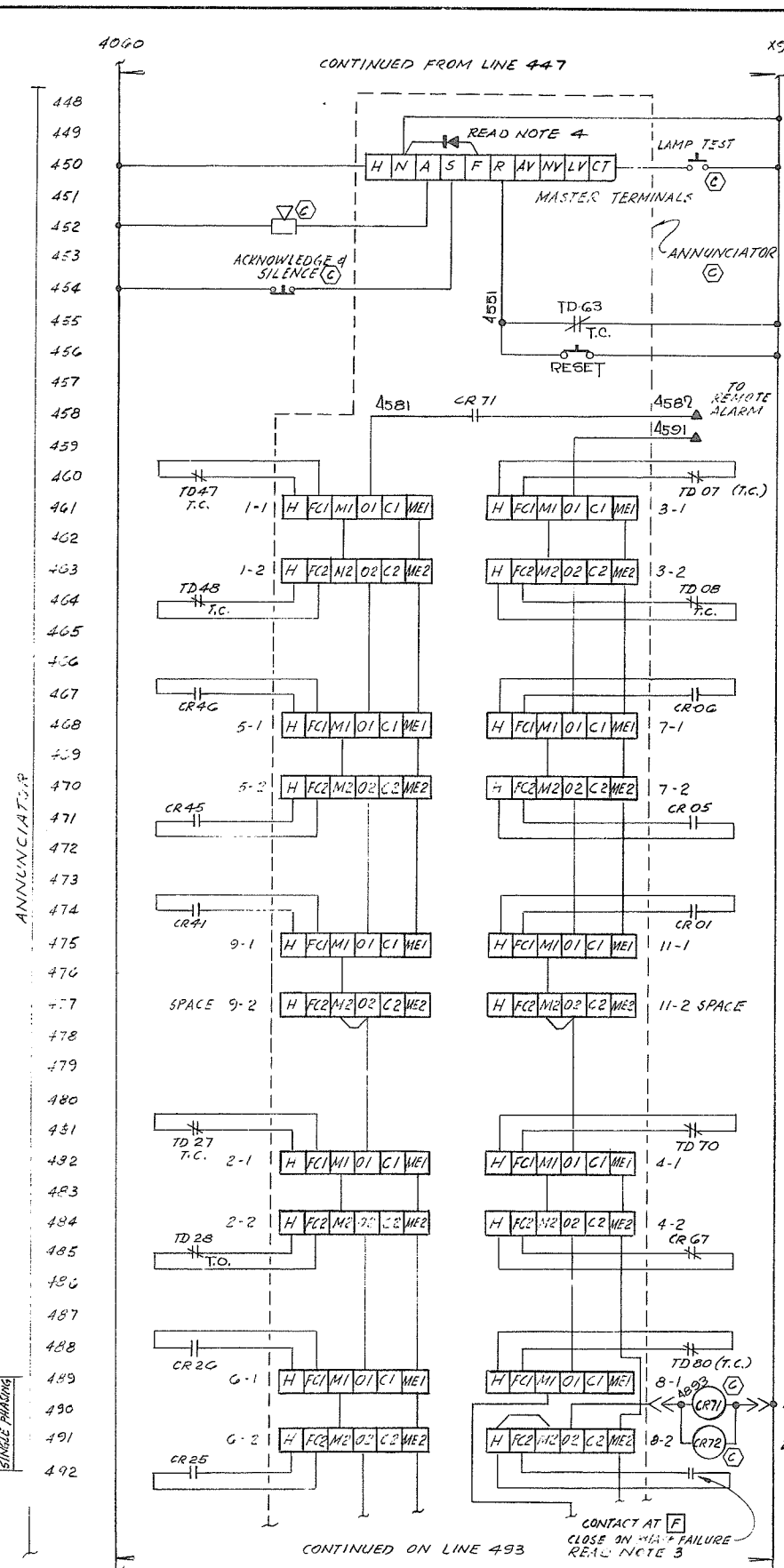
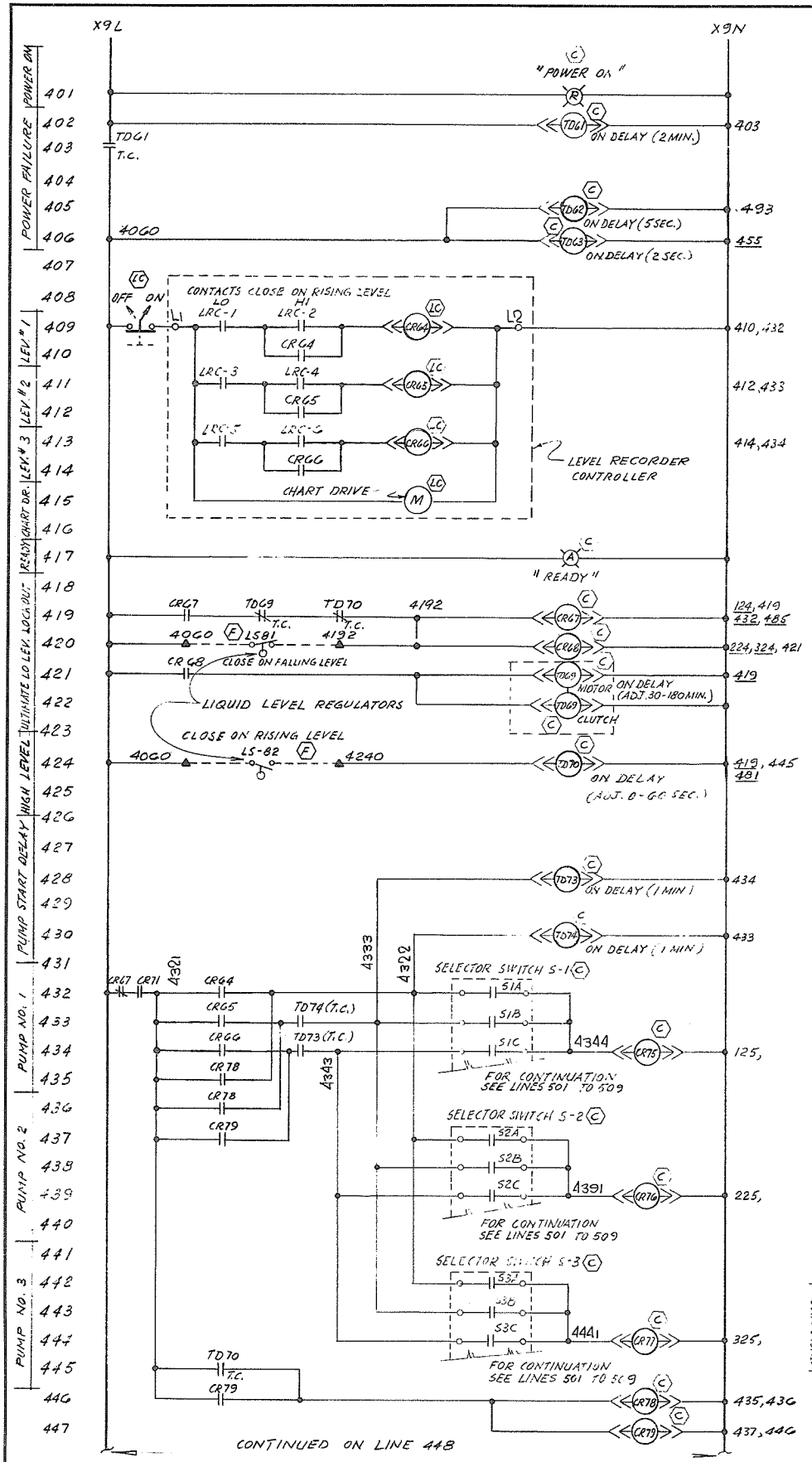
NO.	DATE	BY	REVISIONS	ENG.
1	1972-04-14	H.J.M.	ADDED VIB. SW. RESET COILS	
2	1972-04-14	H.J.M.	AS CONSTRUCTED	
3	1972-04-14	H.J.M.	REVISED AS CONSTRUCTED	



NOTES
 1. CLOSED-TRANSITION AUTO-TRANSFORMER-STARTER DIAGRAM SHOWN IS TYPICAL AND MAY VARY WITH MANUFACTURER.

0122

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-43	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
THE FRASER RIVER JOINT PROGRAM COMMITTEE				CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1959 AGREEMENT DISTRICT OF MATSQUI	
DATE 19 May 1972 APPROVED				DESIGN D.A. COLEMAN SCALE N/A	
DATE 19 May 1972 APPROVED				DRAWN H.J. McFarlane DATE APRIL 1972	
FOR THE PROVINCE OF BRITISH COLUMBIA				CHECKED [Signature] APPROVED [Signature]	
NO. DATE BY REVISIONS				DRAWING NO. 4804-3-43 REV. 3	
3	7-25-74	SS	REVISED AS CONSTRUCTED	VER.	
2	9-27-73	D.J.P.	AS CONSTRUCTED		
1	2/11-72	H.L.	ADDED VIB. SW. RESET COIL		



PUMP MODE	A	B	C	D	E	F	G	H	J
LEVEL 1	X								
LEVEL 2		X							
LEVEL 3			X						
OFF				X					

TYPICAL FOR S-2 & S-3
TELEMECANIQUE SERIES XK2-B

PUMP MODE SELECTOR SWITCHES S1, S2, S3

PUMP 1-3	PUMP 1-2	PUMP 1-1	COMMON
1-1 PUMP 1-3 START FAILURE	2-1 PUMP 1-2 START FAILURE	3-1 PUMP 1-1 START FAILURE	4-1 LEVEL HIGH
1-2 PUMP 1-3 NO FLOW	2-2 PUMP 1-2 NO FLOW	3-2 PUMP 1-1 NO FLOW	4-2 LEVEL LOW
5-1 PUMP 1-3 VIBRATION	6-1 PUMP 1-2 VIBRATION	7-1 PUMP 1-1 VIBRATION	8-1 TWO PUMPS ON SAME LEVEL
5-2 PUMP 1-3 MOTOR HOT	6-2 PUMP 1-2 MOTOR HOT	7-2 PUMP 1-1 MOTOR HOT	8-2 POWER SINGLE PHASING
9-1 PUMP 1-3 GROUND FAULT	10-1 PUMP 1-2 GROUND FAULT	11-1 PUMP 1-1 GROUND FAULT	12-1 POWER FAILURE
9-2 (SPACE)	10-2 (SPACE)	11-2 (SPACE)	12-2 (SPACE)

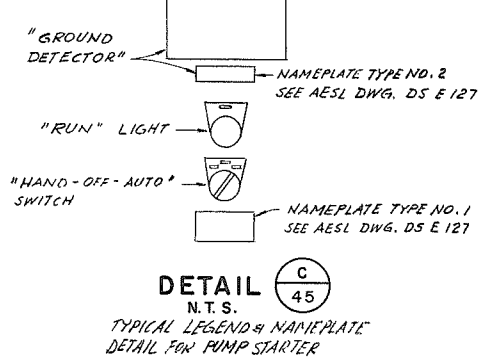
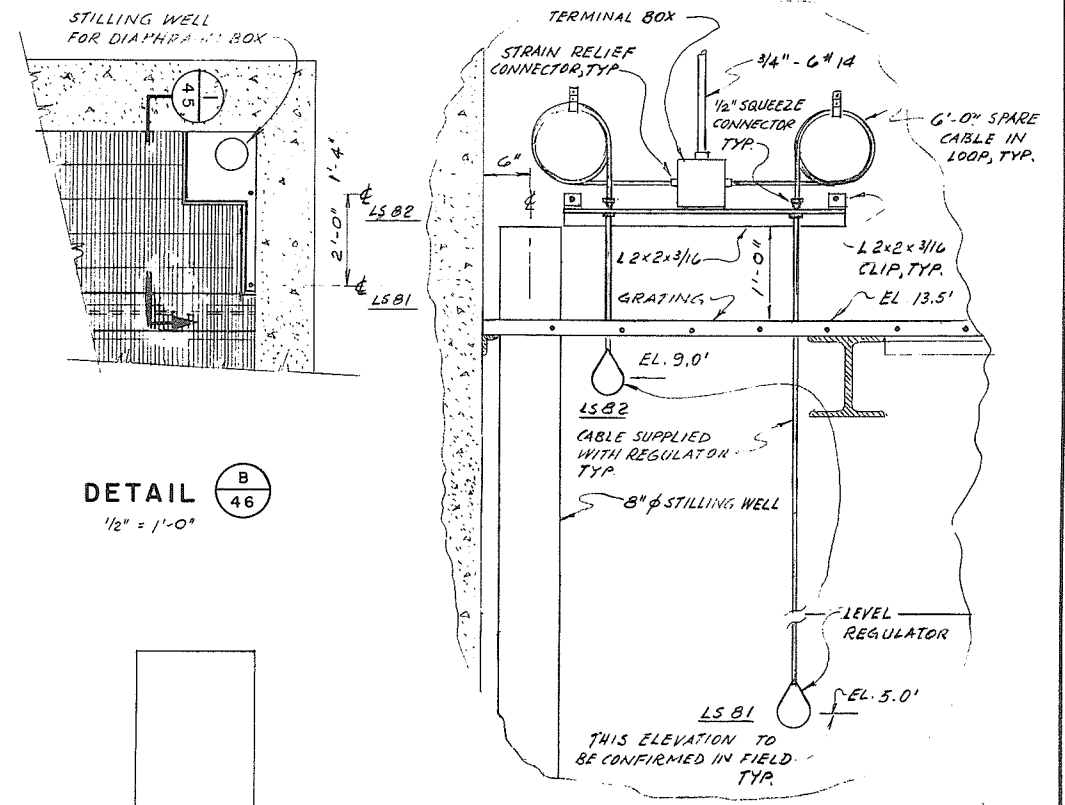
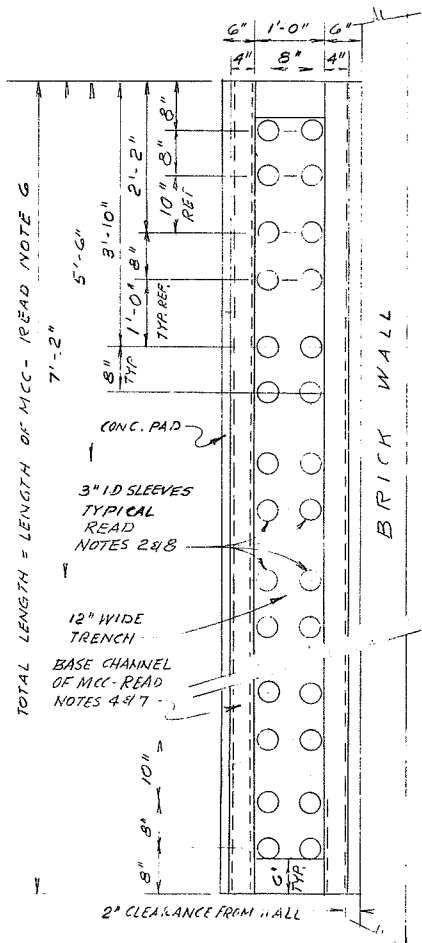
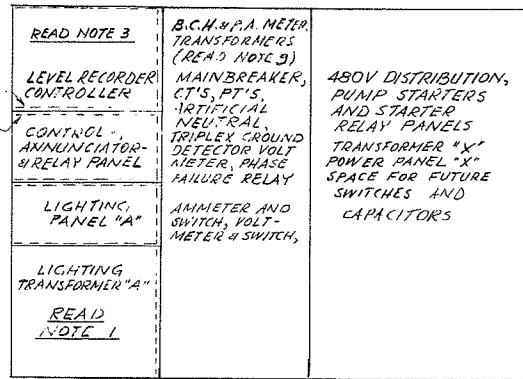
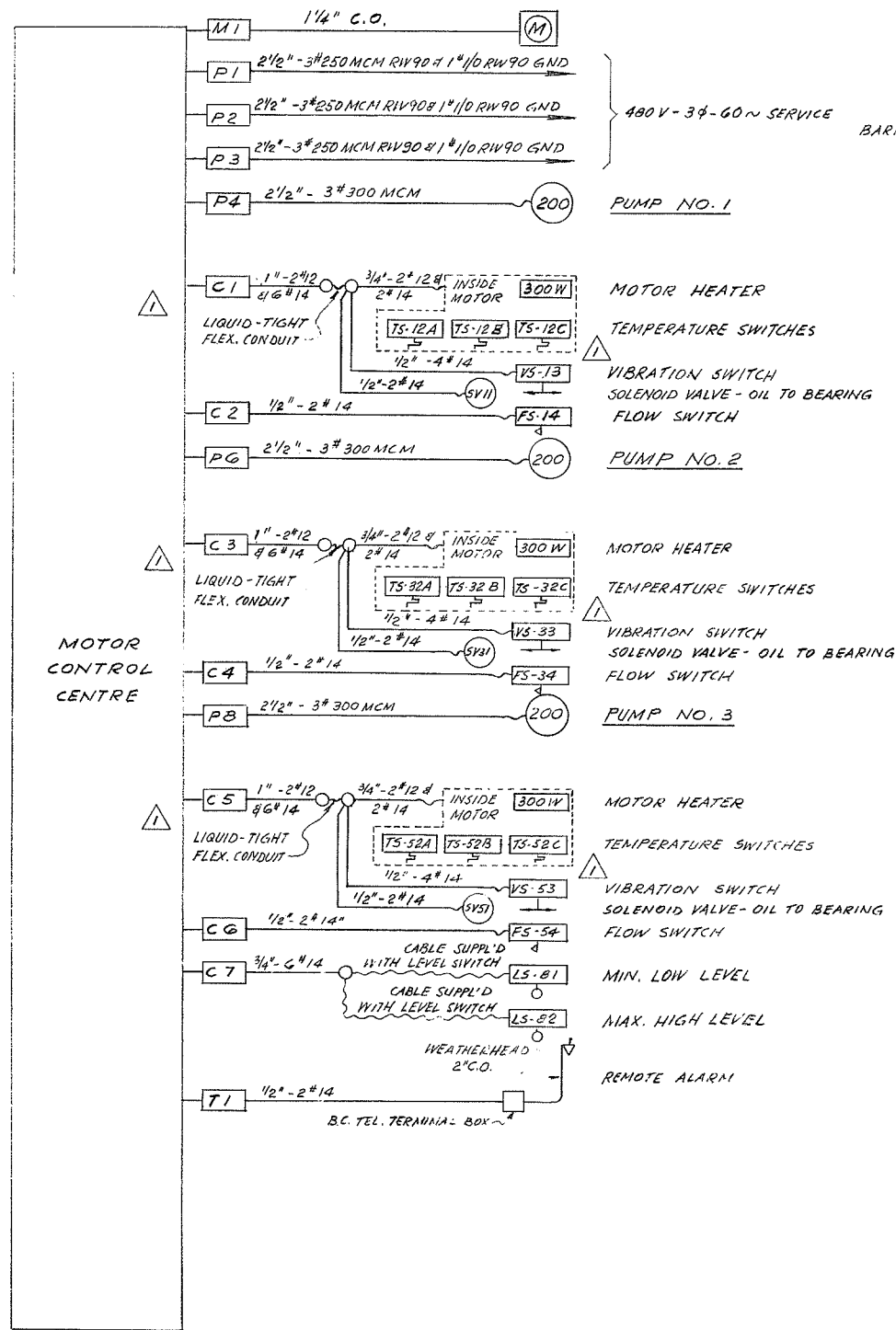
ANNUNCIATOR ENGRAVING

- NOTES**
- FIELD CONTACT SELECTOR SWITCHES ON ALL ALARM POINTS TO BE A.C. POSITION, EXCEPT POINTS 8-2 WHICH SHALL BE N.O.
 - A POWER FAILURE WILL BE REMOTELY ALARMED SINCE ALL ALARM POINTS TRIP ON LOSS OF ANNUNCIATOR POWER IN RETURN OF POWER THE POWER FAILURE ALARM WILL TRIP.
 - THE PHASE FAILURE RELAY IS CONNECTED DIRECTLY TO THE ANNUNCIATOR BECAUSE IT USES N.O. TRIPABLE CONTACTS TO SHORTCIRCUIT A RELAY & HENCE IS FAIL SAFE.
 - A DIMMING DIODE IS USED IN PLACE OF A FLASHER BECAUSE LONG PERIODS OF FLASHING WOULD REDUCE LAMP LIFE.
- SYMBOLS**
- FIELD CONNECTION
 - CONNECTION BETWEEN MCC COMPARTMENTS

CONTROL DEVICE LOCATION SYMBOLS

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-44	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI				DESIGN D.A. GLENNAN SCALE N/A DRAWN H.M. 2111 DATE APRIL 1972 CHECKED [Signature] APPROVED [Signature]	
TITLE PUMP STATION NO. 1 CONTROL SCHEMATICS				DRAWING NO. 4804-3-44 REV. 2	

NO.	DATE	BY	REVISIONS	ENG.
2	7/25/74	YLS	REVISED AS CONSTRUCTED	
1	9/27/73	DLP	AS CONSTRUCTED	



- NOTES**
- THE FOLLOWING PARTS OF THE MCC SHALL BE BARRIRED-OFF FROM ONE ANOTHER AND FROM THE REMAINDER OF THE MCC:
 - THE PART CONTAINING THE LEVEL CONTROLLER
 - THE RELAY/CONTROL PANEL PART
 - THE LIGHTING/CONTROL BOARD PART
 IN ADDITION THE SECONDARY WIRING FROM THE LIGHTING TRANSFORMER TO THE LIGHTING PANELBOARD SHALL BE ENCLOSED IN CONDUIT OR OTHERWISE BARRIRED-OFF FROM THE REST OF THE MCC.
 - THE SPACE AROUND ALL CONDUITS WHERE THEY PASS THROUGH SLEEVES SHALL BE SEALED USING POLYURETHANE FOAM.
 - CONNECTION FOR TUBE FROM DIAPHRAGM BOX TO LEVEL RECORDER CONTROLLER SHALL BE EXTENDED THROUGH WALL OF MCC USING BULKHEAD CONNECTOR FOR STRAIN RELIEF WHICH SHALL BE SUPPLIED BY INSTRUMENT MANUFACTURER.
 - WIRING TRENCH & SLEEVES SHALL EXTEND THE FULL LENGTH OF THE MCC.
 - CONDUITS WHICH ENTER THE TRENCH BELOW THE MCC SHALL HAVE GRINDING BUSHINGS, WHICH SHALL BE CONNECTED TO THE MCC GROUND BUS USING #2 AWG CONDUCTORS.
 - LENGTH OF MCC WILL DEPEND UPON THE CHOICE OF MANUFACTURER.
 - THE MCC SHALL BE SPOT-WELDED TO THE ANGLE WHICH IS EMBEDDED IN THE CONC. PAD.
 - UNUSED SLEEVES SHALL BE SEALED WITH PIPE CAPS OR PLASTIC PLUGS.
 - SPACE PROVIDED FOR B.C.H. & P.A. METERING TRANSFORMERS SHALL BE AT LEAST 18" WIDE x 25" HIGH x 8 1/2" DEEP.

MCC I-1 INTERCONNECTION DIAGRAM

DETAIL A
N.T.S.
LAYOUT OF 3" SLEEVES IN CONC. MCC BASE

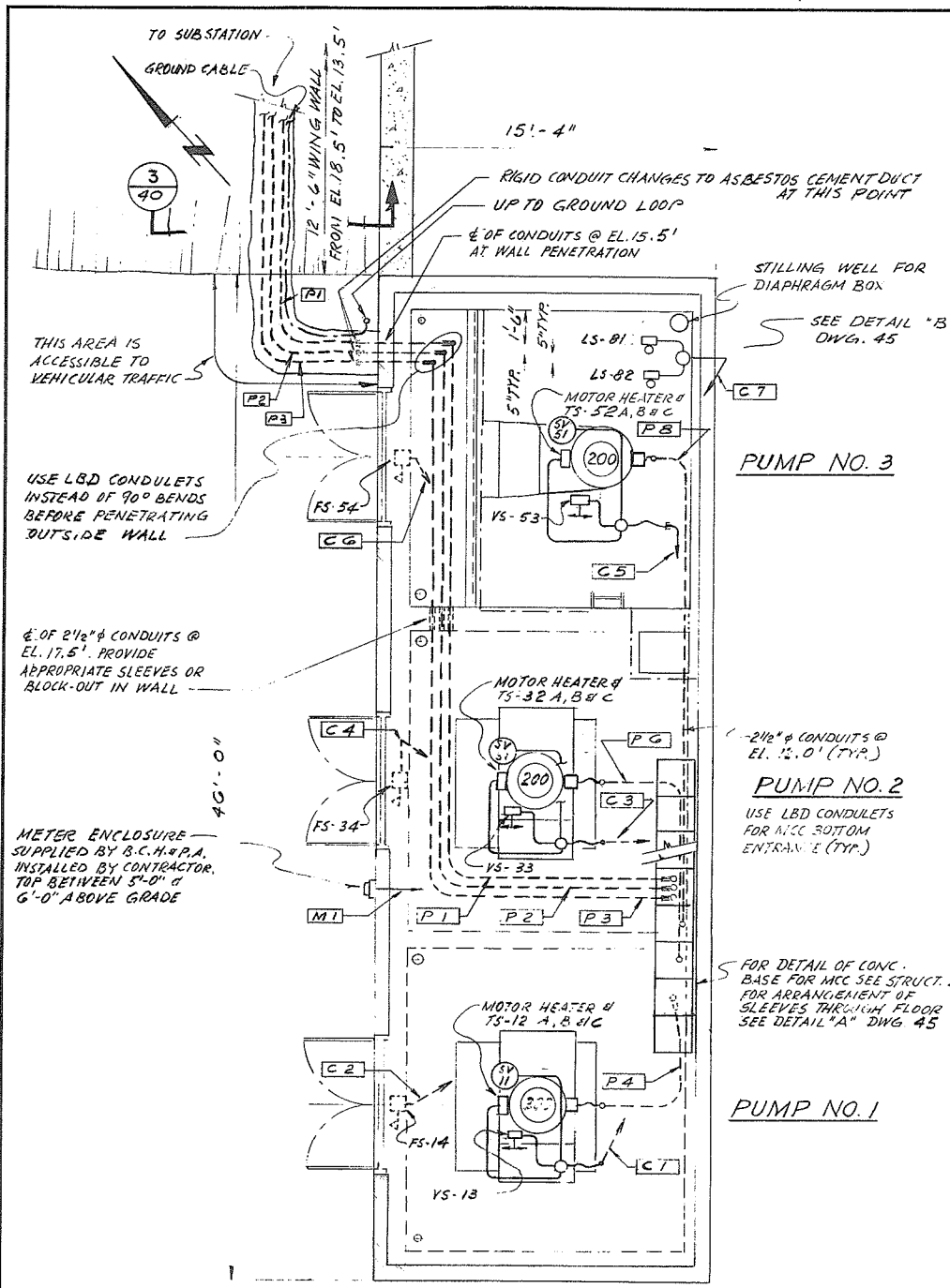
DETAIL C
N.T.S.
TYPICAL LEGEND & NAMEPLATE DETAIL FOR PUMP STARTER

SECTION 1/45
N.T.S.
MOUNTING DETAIL FOR FLYGT LIQUID LEVEL REGULATORS

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-45
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT PROJECT NO. 4 DISTRICT OF WATSOUI		DESIGN D.A. COLEMAN SCALE AS SHOWN DRAWN H. VETTER DATE APRIL 1972 CHECKED [Signature] APPROVED [Signature]
TITLE PUMP STATION NO. 1 INTERCONNECTION - MCC I-1		DRAWING NO. 4804-3-45 REV. 2

NO.	DATE	BY	REVISIONS	ENG.
2	9/27/73	DJP	AS CONSTRUCTED	
1	2/11/72	HL	ADDED 2# 14 FOR EACH VIB. SWITCH	

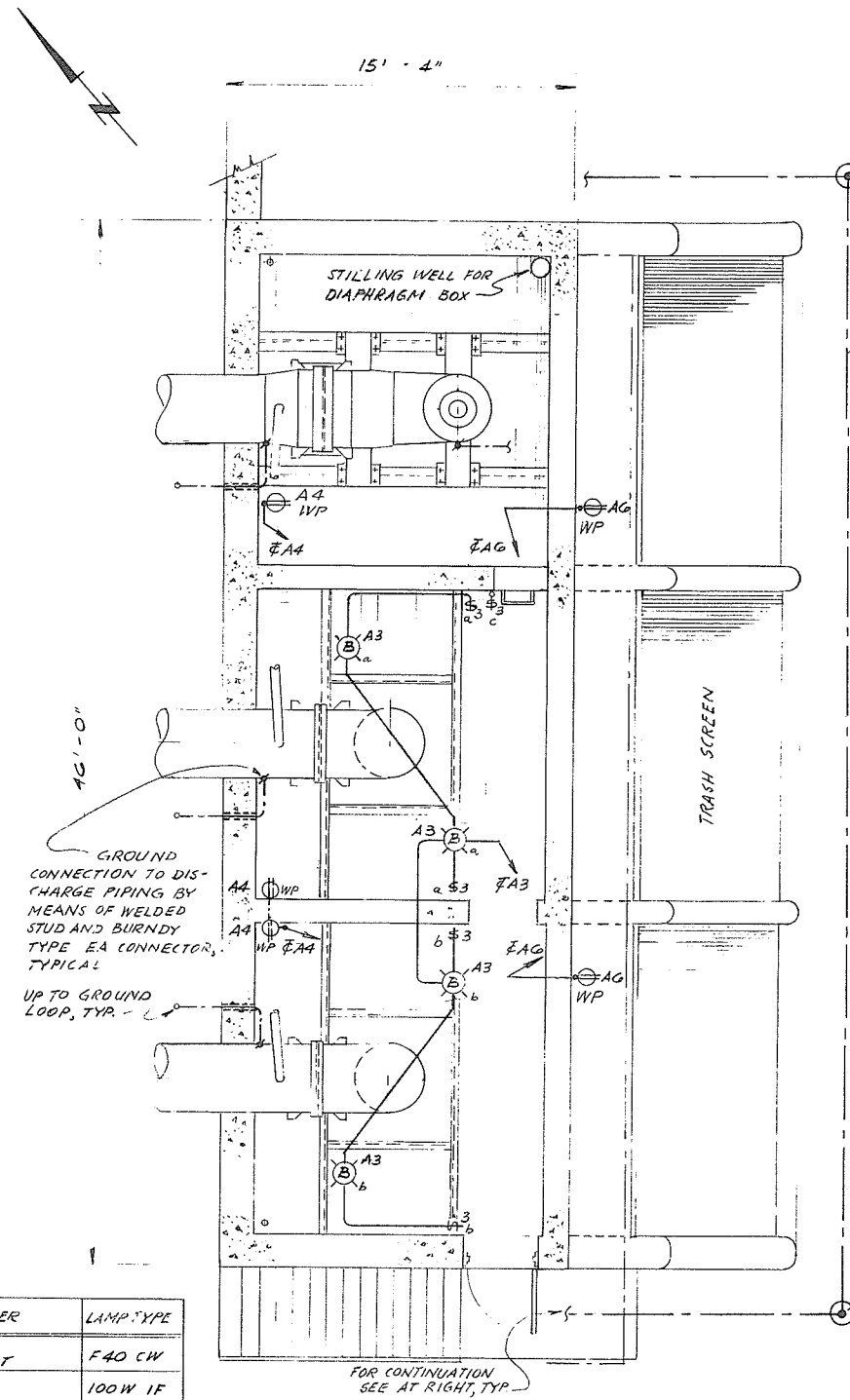
DATE 11 May 1972
 APPROVED
 THE FRASER RIVER JOINT PROGRAM COMMITTEE
 DATE 19 May 1972
 APPROVED
 FOR THE PROVINCE OF BRITISH COLUMBIA



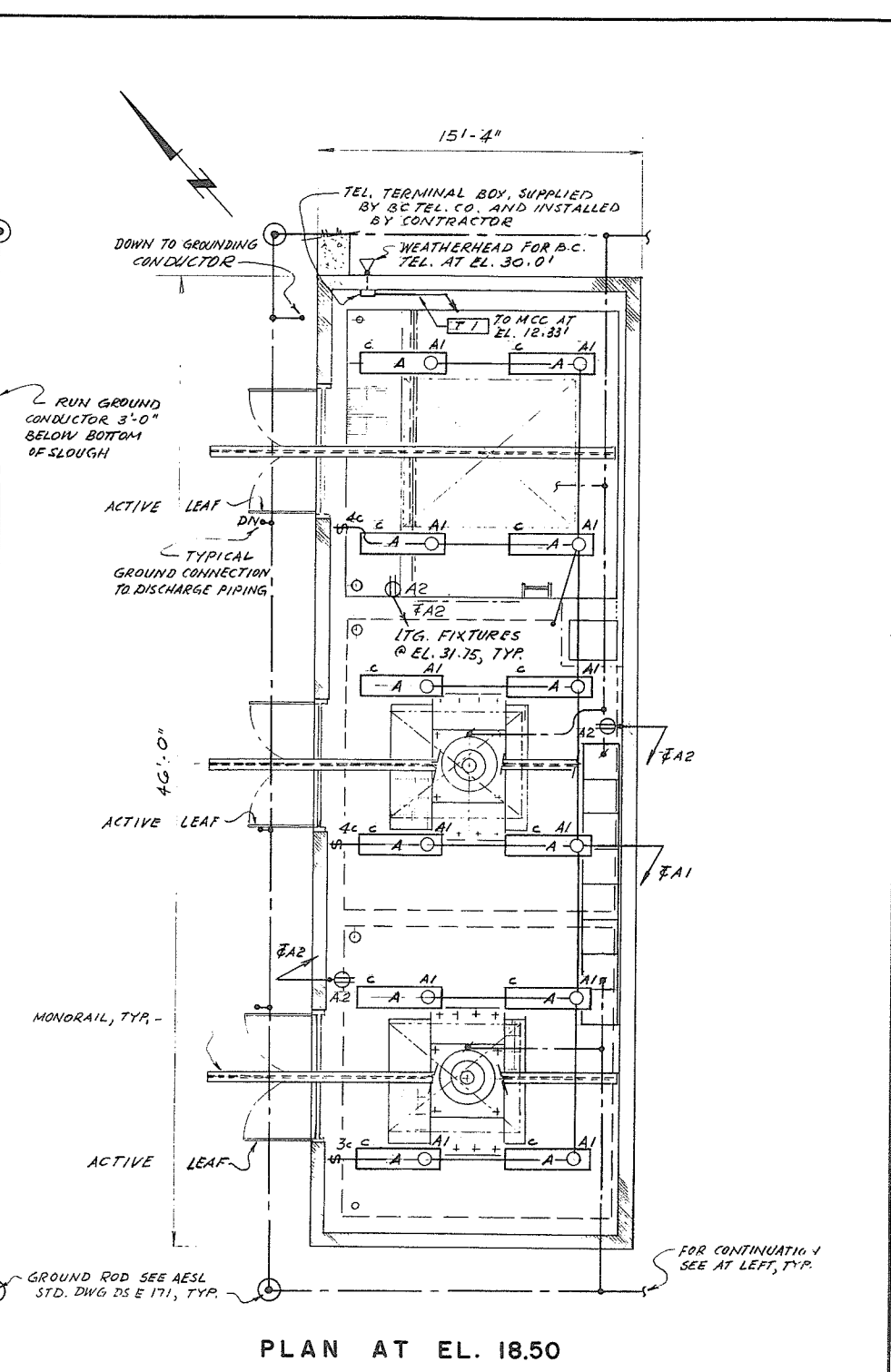
PLAN AT EL. 18.50
POWER LAYOUT

TYPE	MANUFACTURER	CATALOGUE NUMBER	LAMP TYPE
A	C.B.M.	AT1 - 248 - 0° WITH 0° F BALLAST	F40 CW
B	KONDU	VHGP 2710	100W IF

FIXTURE SCHEDULE



PLAN AT EL. 9.50
LIGHTING LAYOUT



PLAN AT EL. 18.50
LIGHTING LAYOUT

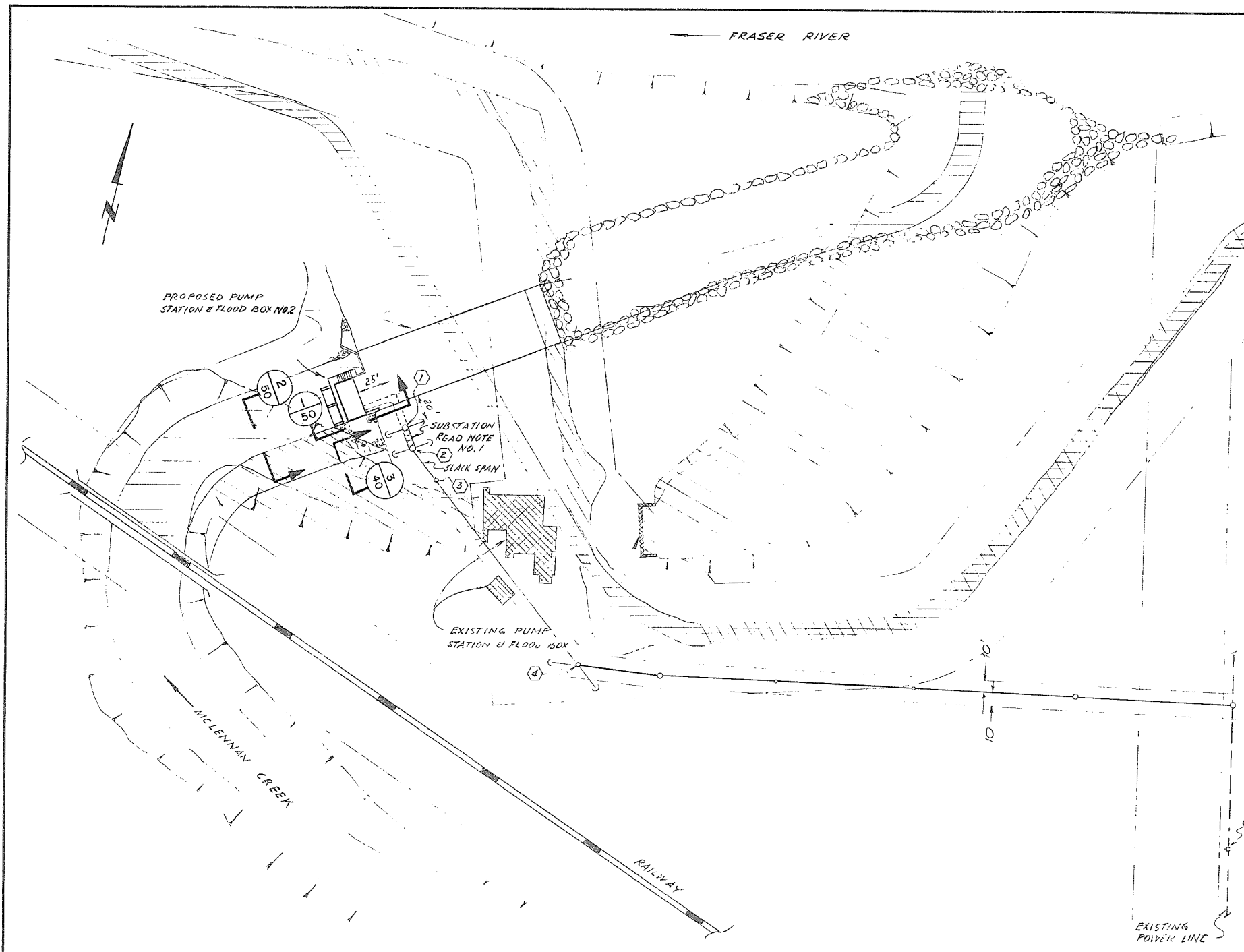
NOTES

- 1) WIRING SHOWN IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED.
- 2) WHERE CONDUITS ARE PENETRATING WALLS & FLOORS USE APPROPRIATE SIZED SLEEVES.
- 3) ALL LIGHTING HOME RUNS ENTER LIGHTING PANEL IN MCC FROM BELOW. ARRANGE LIGHTING CONDUITS IN SUCH A FASHION THAT THEY AVOID CROSSING OF HOIST BEAMS AND DO NOT INTERFERE WITH SAME OR THE OPERATION OF THE HOISTS.

0125

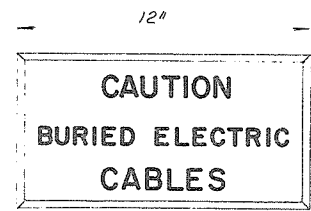
PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-46
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT PROJECT NO. 4		DESIGN D.A. COLEMAN SCALE 1/4" = 1'-0" DRAWN H.J. METZNER DATE APRIL 1972 CHECKED [Signature] APPROVED [Signature] DRAWING NO. 4804-3-46 REV. 1
TITLE PUMP STATION NO. 1 POWER LAYOUTS, GROUNDING AND LIGHTING		

DATE 16 May 1972 APPROVED [Signature] THE FRASER RIVER JOINT PROGRAM COMMITTEE	DATE 19 May 1972 APPROVED [Signature] FOR THE PROVINCE OF BRITISH COLUMBIA			
NO. 1	DATE 18/1/73	BY AS CONSTRUCTED	REVISIONS	ENG.

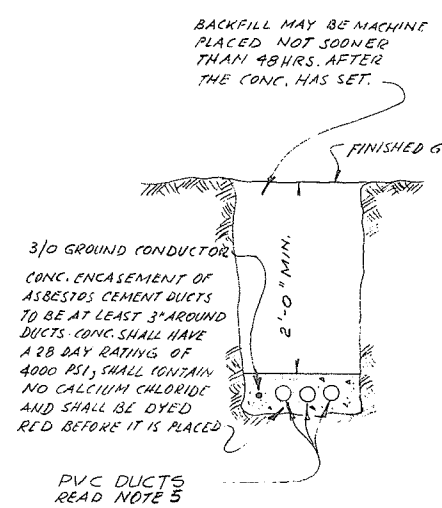


- EXISTING STRUCTURES TO BE REMOVED
- AREA TO BE FILLED
- EXISTING DYKE
- RELOCATED CHANNEL AND DYKE
- POWER POLE NUMBER
- NEW POWER LINE
- EXISTING POWER LINE (2300V) TO BE REMOVED
- GUY AND ANCHOR

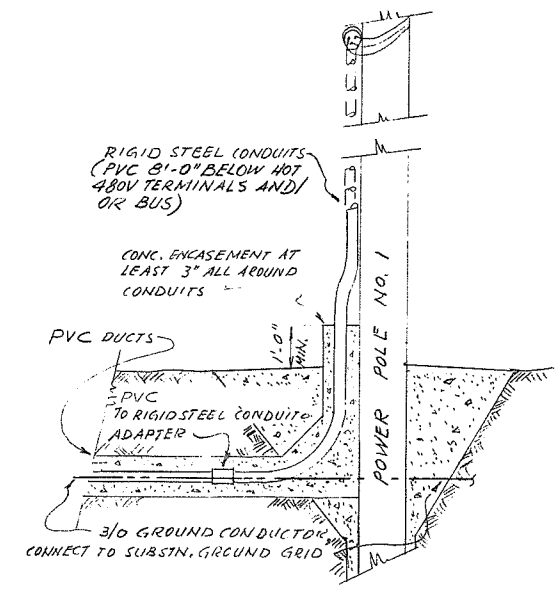
PLAN
1" = 50'-0"



DETAIL "A"
TYPICAL BRONZE MARKER PLATE
3/16" THICK
N.T.S.
READ NOTE 2



SECTION 1-1
N.T.S.
TYPICAL TRENCH DETAIL FOR CONCRETE ENCASED DUCTS



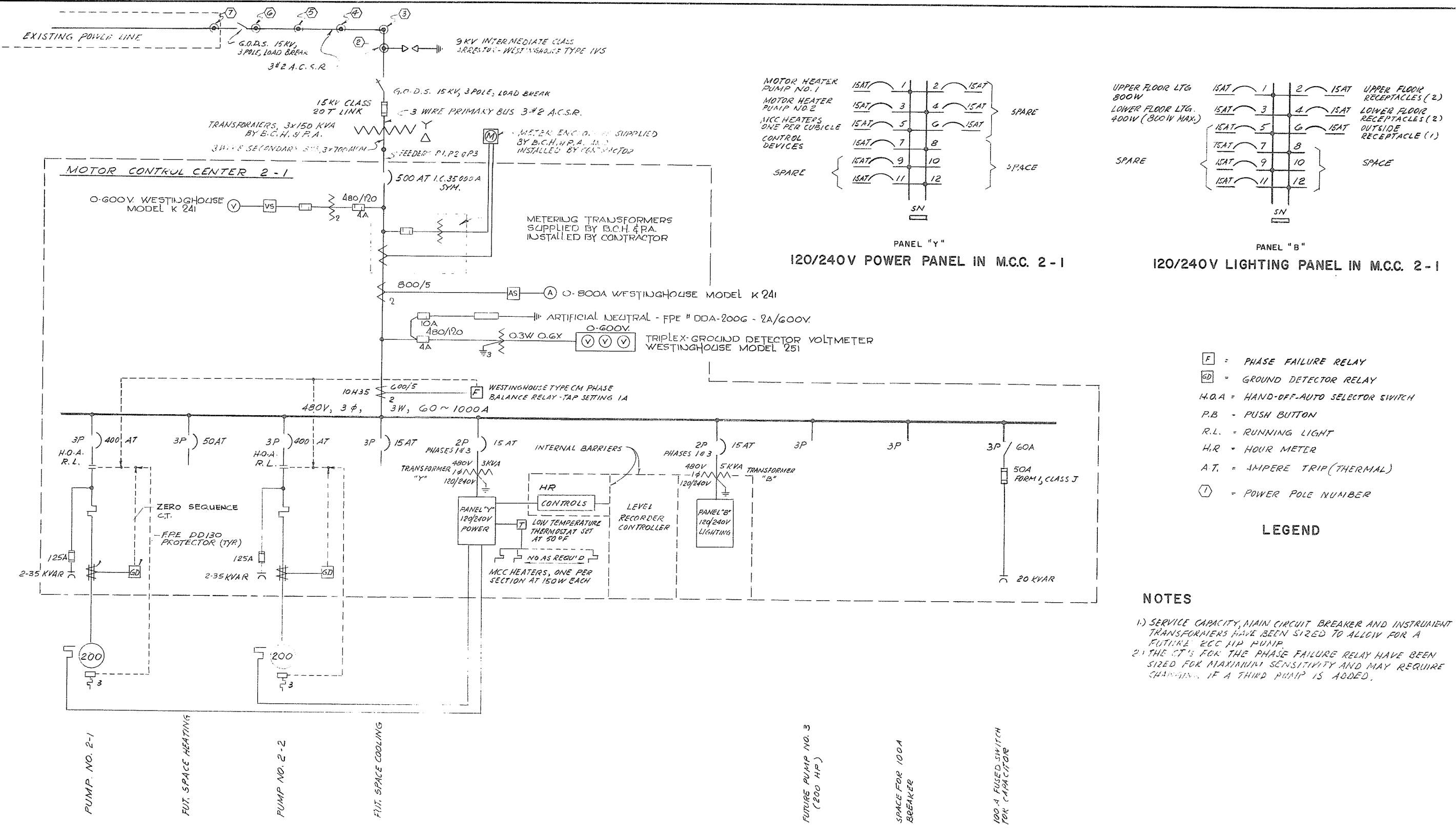
SECTION 2-2
N.T.S.
PILASTER AT POLE NO. 1

NOTES

- 1) SUBSTATION TRANSFORMERS WILL BE SUPPLIED BY B.C.H.R.P.A.
- 2) UNDERGROUND DUCT RUNS SHALL BE MARKED AS FOLLOWS:
 - a) ENCASEMENT TO BE RED COLORED CONCRETE
 - b) BRONZE MARKER PLATES AS PER DETAIL "A", SET IN CAST IN PLACE CONC. BLOCK 12"W x 18"L x 18"D PROTRUDING 3" ABOVE GRADE, SHALL BE INSTALLED NEAR THE PUMPHOUSE & THE SUBSTATION AND AT CHANGE OF DUCT RUN DIRECTION. BRONZE MARKER PLATES ARE AVAILABLE FROM: GLOBE FOUNDRY LTD., BURBANK, B.C.
 - c) BETWEEN SUBSTATION & PUMPHOUSE A CONTINUOUS 6" WIDE, ORANGE, PLASTIC TAPE WITH THE IMPRINT: "DANGER ELECTRICAL POWER LINE BELOW" SHALL BE BURIED IN THE DUCT TRENCH 12" BELOW RE-ESTABLISHED GRADE. TAPE IS OBTAINABLE FROM A.B. CHANCE CO. OF CANADA LTD., NORTH VANCOUVER, B.C.
- 3) EXISTING POLE NO. 7 WILL BE REPLACED BY B.C.H.R.P.A.
- 4) CONNECTIONS TO ENERGIZED TRANSMISSION LINES SHALL BE BY B.C.H.R.P.A.
- 5) SPARE DUCT SHALL BE PROVIDED TO PUMP STATION NO. 2 FOR FUTURE USE.

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-50
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1958 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		DESIGN D.A. COLEMAN SCALE AS SHOWN DRAWN H.J. Metzner DATE APRIL 1972 CHECKED [Signature] APPROVED [Signature] DRAWING NO. 4804-3-50 REV. 2
TITLE PUMP STATION NO. 2 SITE PLAN & POWER SUPPLY		

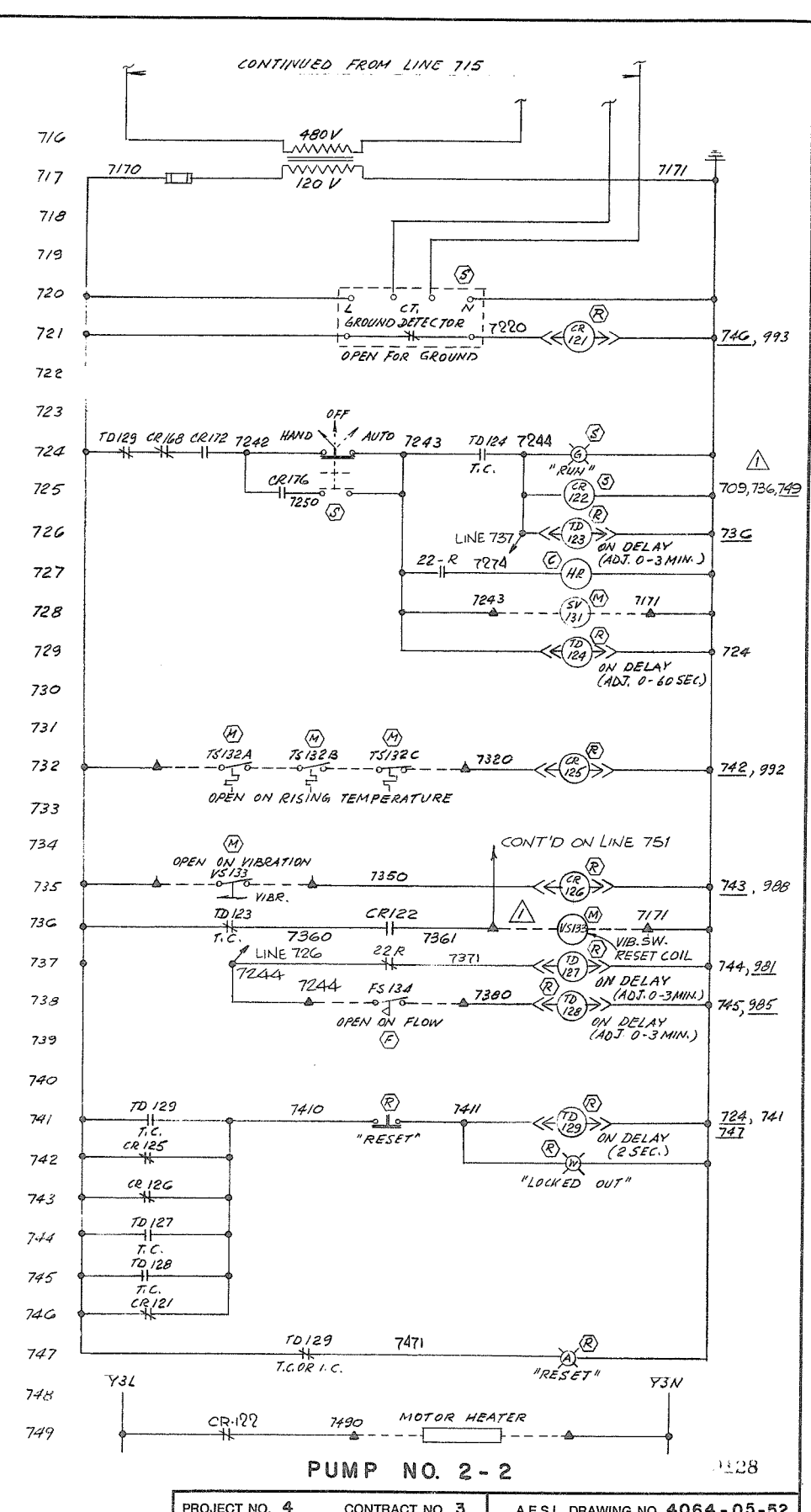
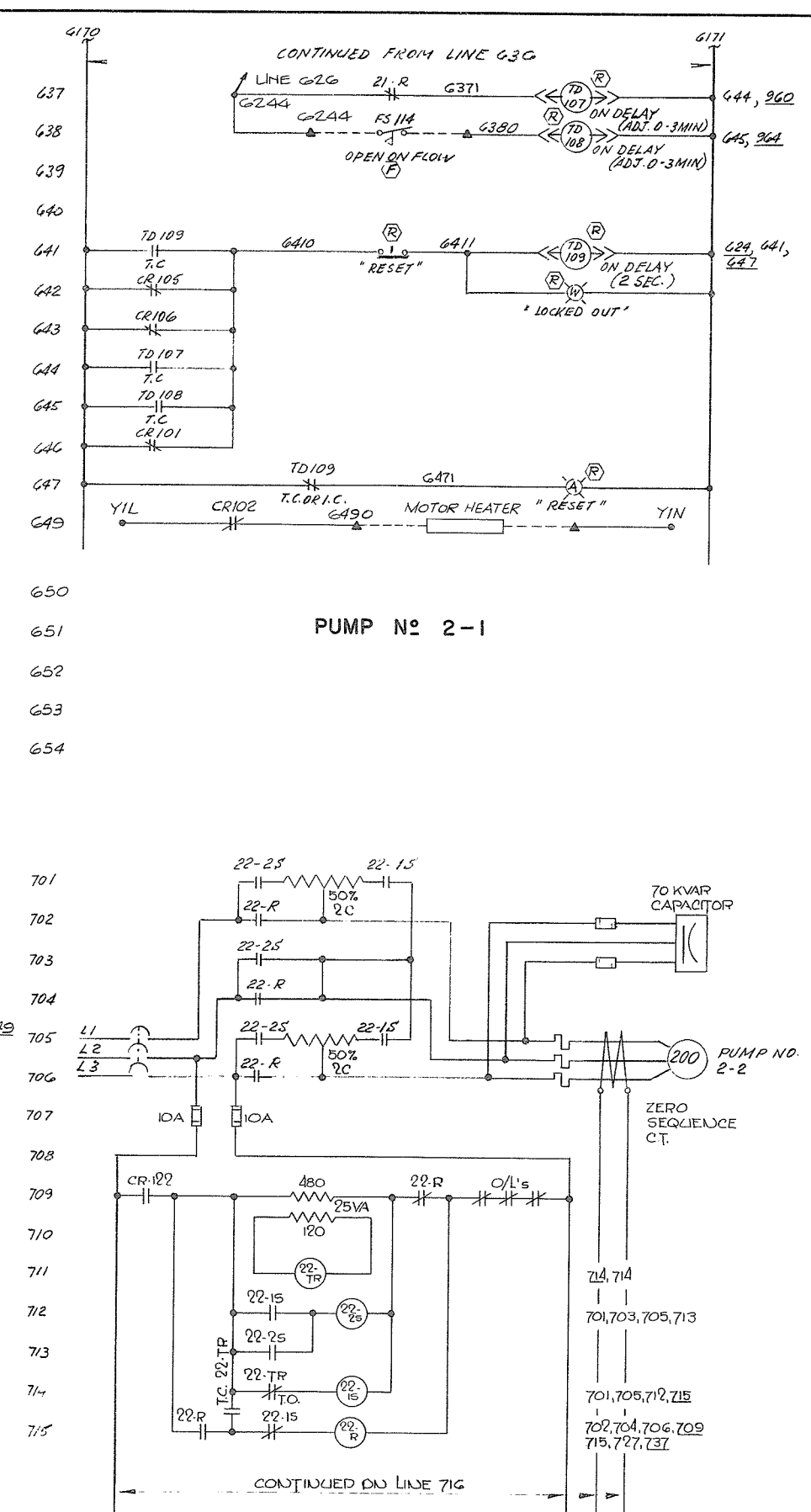
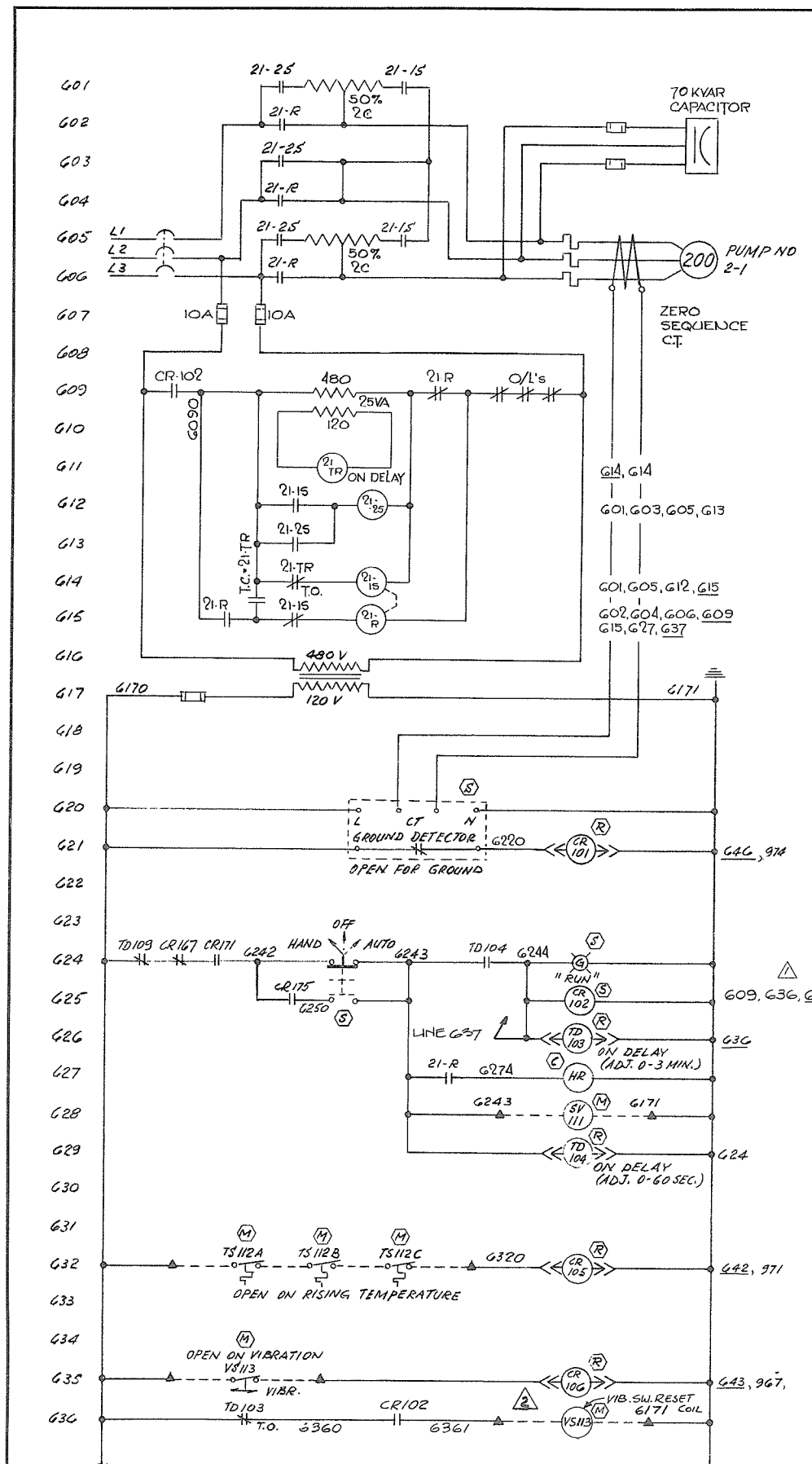
NO.	DATE	BY	REVISIONS	ENG.
2	3/12/73	166	AS CONSTRUCTED	
1	22/3/72	V.M.	RIGHT OF WAY ADJUST	



SINGLE LINE DIAGRAM

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-51
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE	PUMP STATION NO. 2 SINGLE LINE DIAGRAM	SCALE N/A
DESIGN	D.A. COLMAN	DATE N/A
DRAWN	H.S. METZGER	DATE APR 19 1972
CHECKED	[Signature]	APPROVED [Signature]
DRAWING NO.	4804-3-51	REV. []

NO.	DATE	BY	REVISIONS	ENG.
1	92873	DJP	AS CONSTRUCTED	

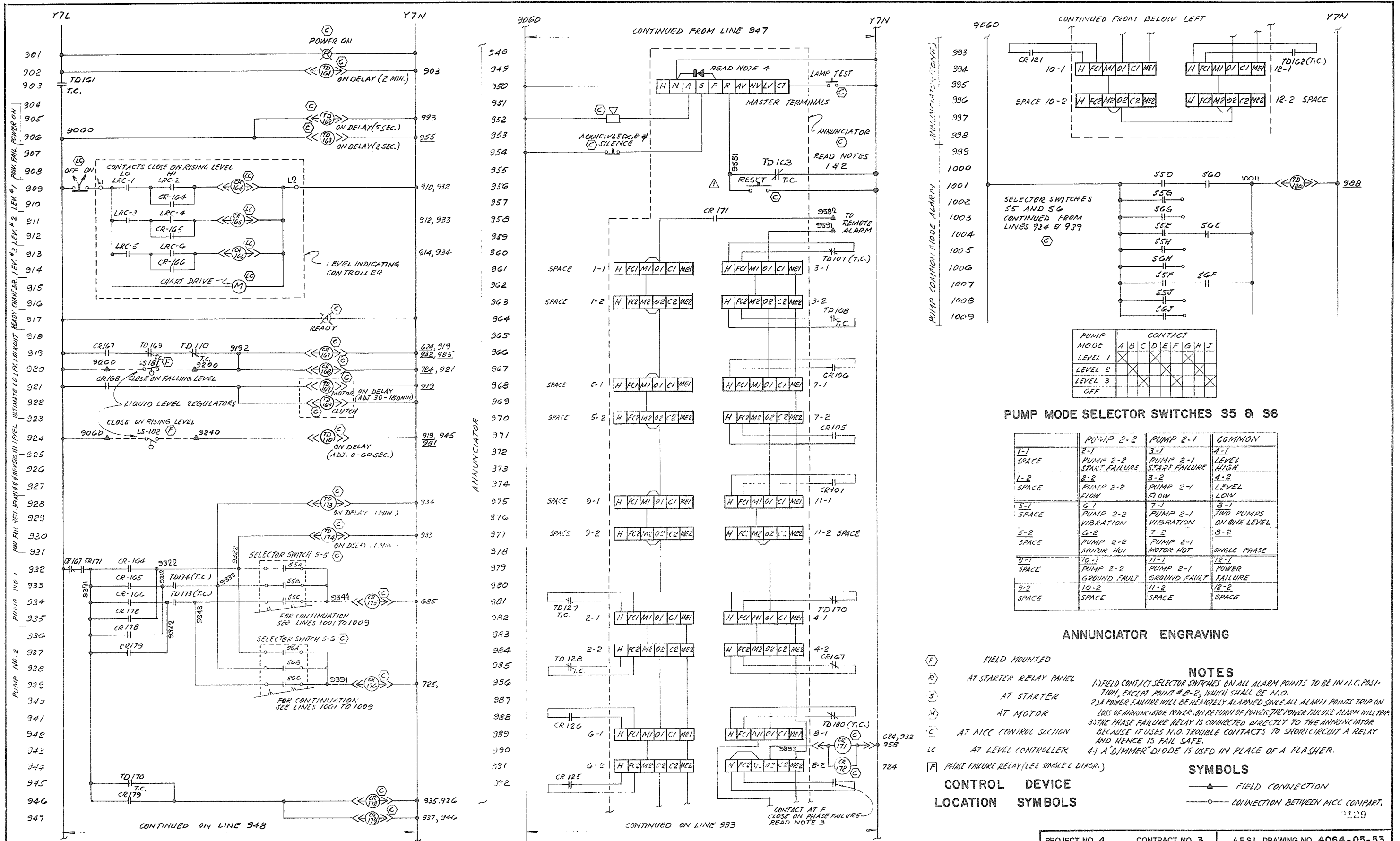


NO.	DATE	BY	REVISIONS	ENG.
4	7-27-74	YS	REVISED AS CONSTRUCTED	
3	10-27-73	DJP	AS CONSTRUCTED	
2	5-5-73	KD	REVISED VIB. SW. RESET CIRCUIT	
1	2/11-72	HL	ADDED VIB. SW. RESET COILS	

APPROVED
 DATE 19 MAY 1972
 FOR THE PROVINCE OF BRITISH COLUMBIA

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-52
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.		
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI		
TITLE	PUMP STATION NO 2 MOTOR SCHEMATICS	
DESIGN	D.A. COLEMAN	SCALE N/A
DRAWN	H.J. Metzner	DATE APRIL 1972
CHECKED		APPROVED
DRAWING NO.	4804-3-52	REV. 4

SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN



PUMP MODE	A	B	C	D	E	F	G	H	J
LEVEL 1									
LEVEL 2									
LEVEL 3									
OFF									

PUMP MODE SELECTOR SWITCHES S5 & S6

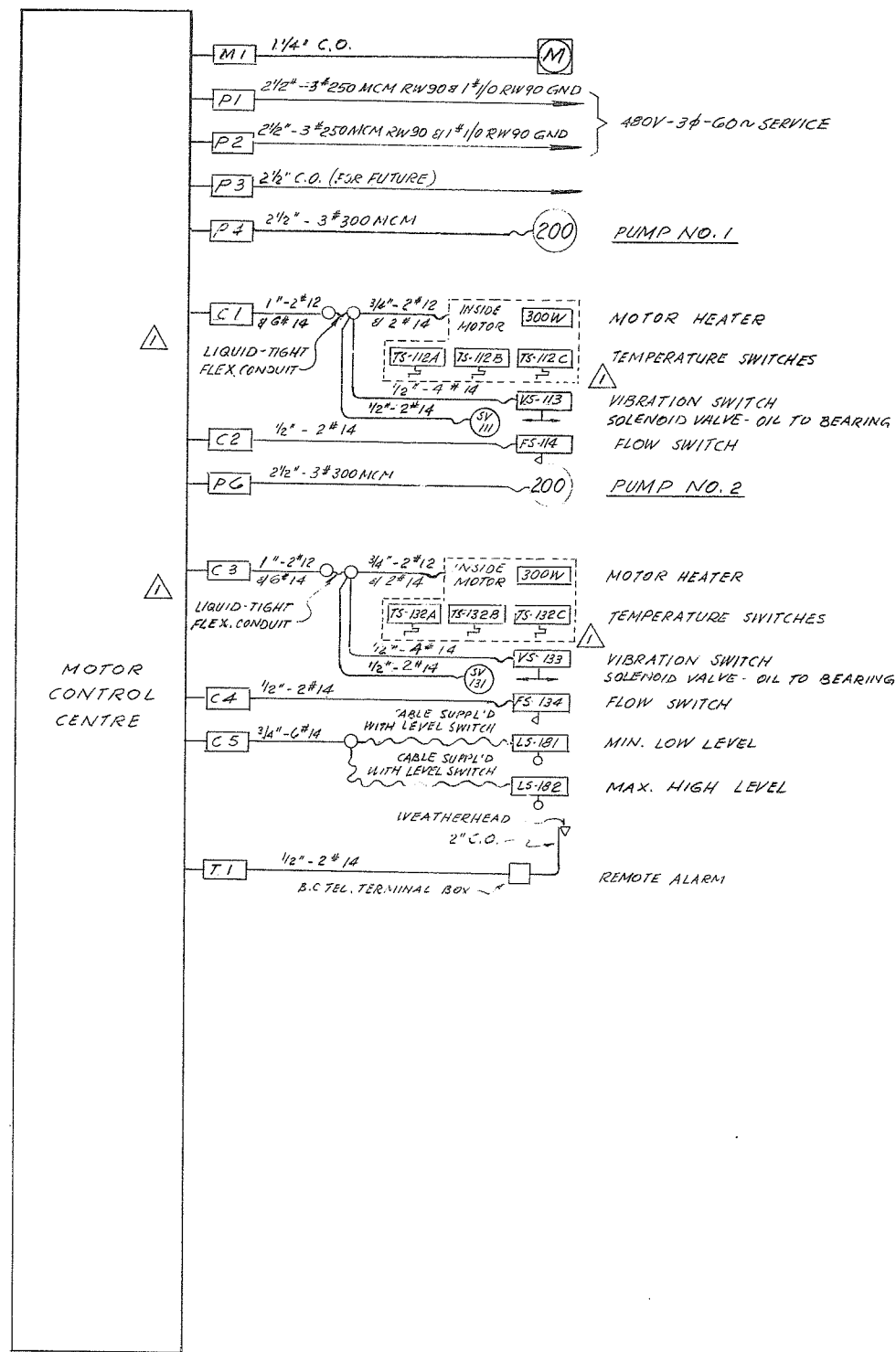
	PUMP 2-2	PUMP 2-1	COMMON
1-1 SPACE	2-1 PUMP 2-2 START FAILURE	3-1 PUMP 2-1 START FAILURE	4-1 LEVEL HIGH
1-2 SPACE	2-2 PUMP 2-2 FLOW	3-2 PUMP 2-1 FLOW	4-2 LEVEL LOW
5-1 SPACE	6-1 PUMP 2-2 VIBRATION	7-1 PUMP 2-1 VIBRATION	8-1 TWO PUMPS ON ONE LEVEL
5-2 SPACE	6-2 PUMP 2-2 MOTOR HOT	7-2 PUMP 2-1 MOTOR HOT	8-2 SINGLE PHASE
9-1 SPACE	10-1 PUMP 2-2 GROUND FAULT	11-1 PUMP 2-1 GROUND FAULT	12-1 POWER FAILURE
9-2 SPACE	10-2 SPACE	11-2 SPACE	12-2 SPACE

ANNUNCIATOR ENGRAVING

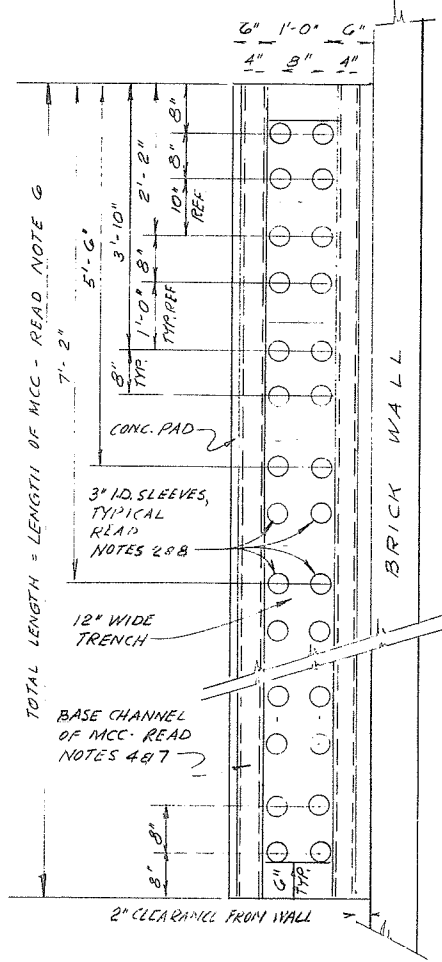
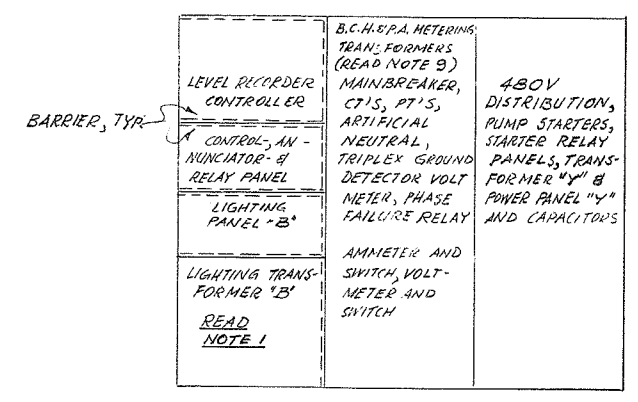
- FIELD MOUNTED
 AT STARTER RELAY PANEL
 AT STARTER
 AT MOTOR
 AT MCC CONTROL SECTION
 AT LEVEL CONTROLLER
 PHASE FAILURE RELAY (SEE SINGLE L DIAG.)
- NOTES**
 1) FIELD CONTACT SELECTOR SWITCHES ON ALL ALARM POINTS TO BE IN N.C. POSITION, EXCEPT POINT # 8-2, WHICH SHALL BE N.O.
 2) A POWER FAILURE WILL BE REMOTELY ALARMED SINCE ALL ALARM POINTS TRIP ON LOSS OF ANNUNCIATOR POWER. ON RETURN OF POWER THE POWER FAILURE ALARM WILL TRIP.
 3) THE PHASE FAILURE RELAY IS CONNECTED DIRECTLY TO THE ANNUNCIATOR BECAUSE IT USES N.O. TROUBLE CONTACTS TO SHORTCIRCUIT A RELAY AND HENCE IS FAIL SAFE.
 4) A "DIMMER" DIODE IS USED IN PLACE OF A FLASHER.
- SYMBOLS**
 FIELD CONNECTION
 CONNECTION BETWEEN MCC COMPART.

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-53
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1959 AGREEMENT PROJECT NO. 4		
PUMP STATION NO. 2 CONTROL SCHEMATICS		
DESIGN D.A. COLEMAN	SCALE N/A	
DRAWN H.J. McTENER	DATE APRIL 1972	
CHECKED	APPROVED	
DRAWING NO. 4804-3-53	REV. 3	

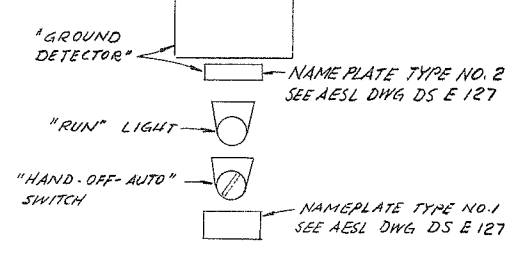
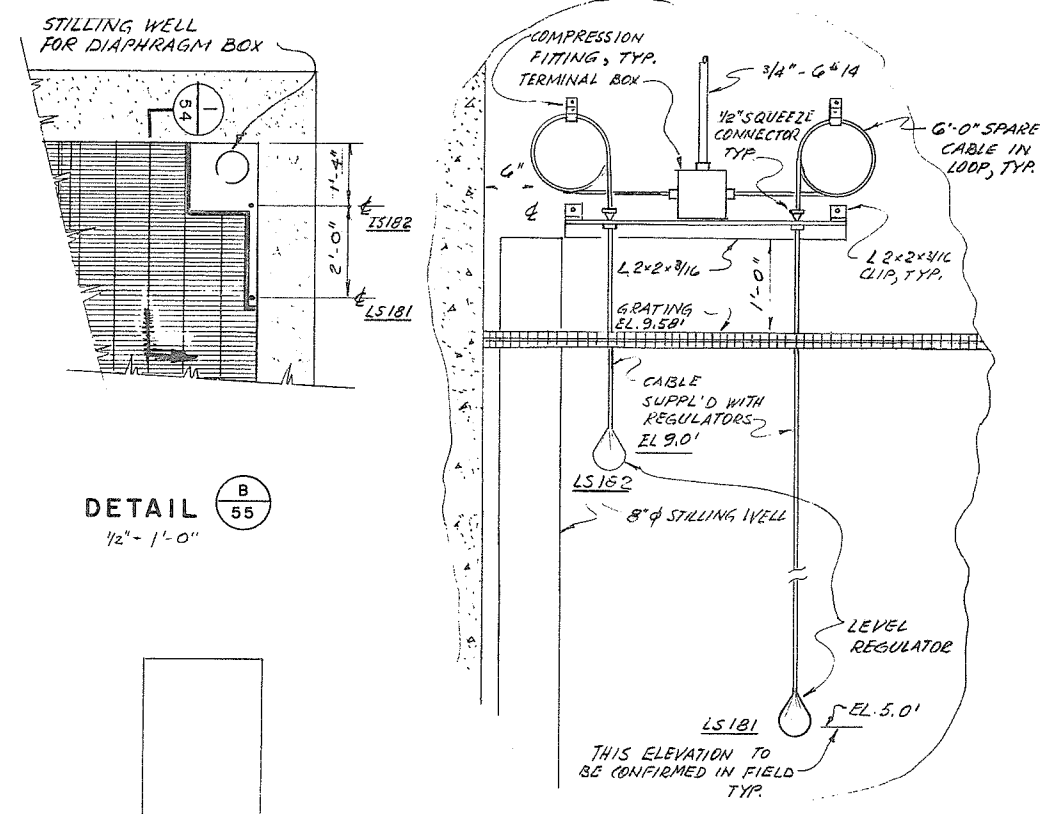
NO.	DATE	BY	REVISIONS	ENG.
3	7/25/74	GS	REVISED AS CONSTRUCTED	
2	10-2-73	D.J.P.	AS CONSTRUCTED	
1	15/5/73	K.D.	ALARM PANEL RESET REVISED	



**INTERCONNECTION DIAGRAM
MCC 2 - 1**



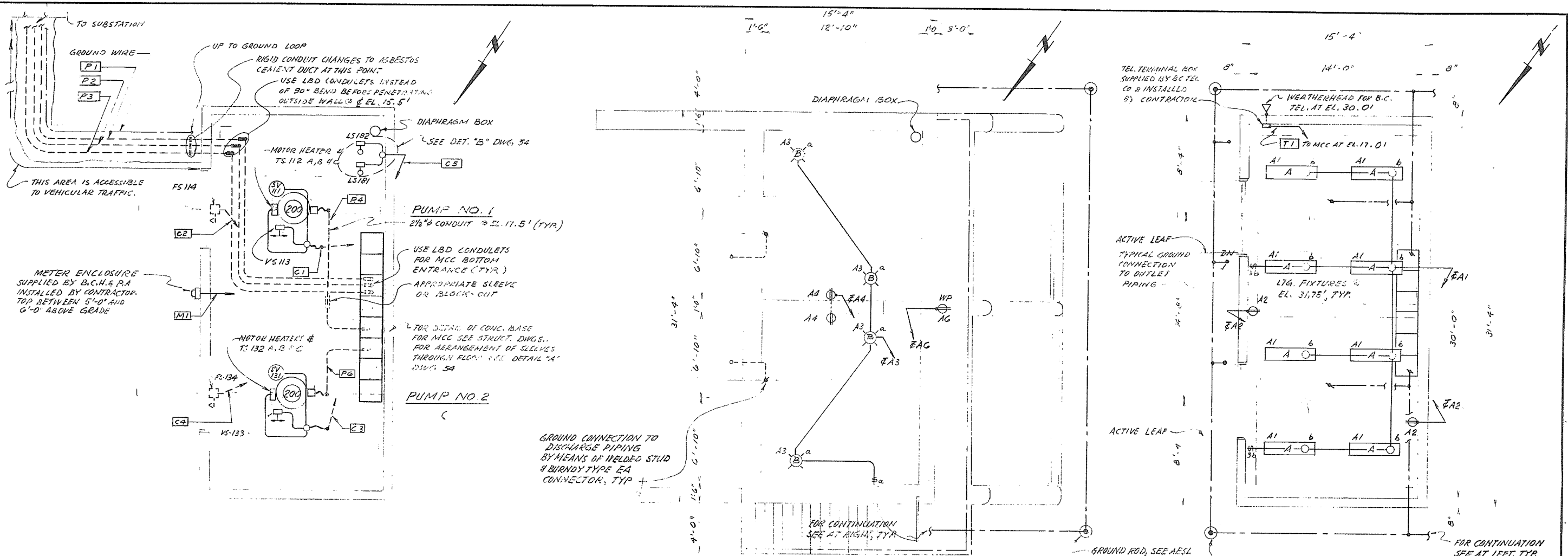
DETAIL A
N.T.S.
LAYOUT OF 3" SLEEVES IN CONC. MCC BASE



- NOTES**
- THE FOLLOWING PARTS OF THE MCC SHALL BE BARRIRED-OFF FROM ONE ANOTHER AND FROM THE REMAINDER OF THE MCC:
 - THE PART CONTAINING THE LEVEL CONTROLLER
 - THE RELAY/CONTROL PANEL PART
 - THE LIGHTING PANEL BOARD PART
 IN ADDITION, THE SECONDARY WIRING FROM THE LIGHTING TRANSFORMER TO THE LIGHTING PANEL BOARD SHALL BE ENCLOSED IN CONDUIT OR OTHERWISE BARRIRED-OFF FROM THE REST OF THE MCC.
 - THE SPACE AROUND ALL CONDUITS WHERE THEY PASS THROUGH SLEEVES SHALL BE SEALED USING POLYURETHANE FOAM.
 - CONNECTION FOR TUBE FROM DIAPHRAGM BOX TO LEVEL INDICATING CONTROLLER SHALL BE EXTENDED THROUGH WALL OF MCC USING BULKHEAD CONNECTOR FOR STRAIN RELIEF WHICH SHALL BE SUPPLIED BY INSTRUMENT MANUFACTURER.
 - WIRING TRENCH AND SLEEVES SHALL EXTEND THE FULL LENGTH OF THE MCC
 - CONDUITS WHICH ENTER THE TRENCH BELOW THE MCC SHALL HAVE GROUNDING BUSHINGS, WHICH SHALL BE CONNECTED TO THE MCC GROUND BUS USING #2 AWG CONDUCTORS.
 - LENGTH OF MCC WILL DEPEND UPON THE CHOICE OF MANUFACTURER.
 - THE MCC SHALL BE SPOT-WELDED TO THE ANGLE WHICH IS EMBEDDED IN THE CONC. PAD.
 - UNUSED SLEEVES SHALL BE SEALED WITH PIPE CAPS OR PLASTIC PLUGS.
 - SPACE PROVIDED FOR B.C.H.E.P.A. METERING TRANSFORMERS SHALL BE AT LEAST 18" WIDE X 25" HIGH X 8 1/2" DEEP.

PROJECT NO. 4	CONTRACT NO. 3	A.E.S.L. DRAWING NO. 4064-05-54
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE		AESL ASSOCIATED ENGINEERING SERVICES LTD. VANCOUVER, B.C.
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1959 AGREEMENT DISTRICT OF MATSQUI		DESIGN D.A. COLMAN SCALE AS SHOWN
DATE 16 May 1972 APPROVED THE FRASER RIVER JOINT PROGRAM COMMITTEE		DRAWN H. METZNER DATE APRIL 1972
DATE 19 May 1972 APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA		CHECKED [Signature] APPROVED [Signature]
TITLE PUMP STATION NO. 2 INTERCONNECTION - MCC 2-1		DRAWING NO. 4804-3-54 REV. 2

2	10-273	D.J.R.	AS CONSTRUCTED
1	2/11-72	H.L.	ADDED 2" 14 FOR EACH VIB. SWITCH
NO.	DATE	BY	REVISIONS



PLAN AT EL. 18.5'
PUMP STATION NO. 2

POWER LAYOUT

PLAN AT EL. 9.5'
PUMP STATION NO. 2

LIGHTING LAYOUT

PLAN AT EL. 18.5'
PUMP STATION NO. 2

TYPE	MANUFACTURER & CATALOGUE NUMBER	LAMP TYPE
A	ATI - 248 - 0° WITH 0° BALLAST	F40 CIV
B	KONDU VHGP 2710	100W IF

FIXTURE SCHEDULE

NOTES

- WIRING SHOWN IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED.
- WHERE CONDUITS ARE PENETRATING WALLS OR FLOORS USE APPROPRIATE SIZED SLEEVES.
- ALL LIGHTING HOME RUNS ENTER LIGHTING PANEL IN MCC FROM BELOW. ARRANGE LIGHTING CONDUITS IN SUCH A FASHION THAT THEY AVOID CROSSING OF HOIST BEAMS AND DO NOT INTERFERE WITH SAME OR THE OPERATION OF THE HOISTS.

1131

PROJECT NO. 4		CONTRACT NO. 3		A.E.S.L. DRAWING NO. 4064-05-55	
THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA DEPT. OF LANDS, FORESTS AND WATER RESOURCES WATER RESOURCES SERVICE				AESL ASSOCIATED ENGINEERING SERVICES LTD. Consulting Engineers VANCOUVER, B.C.	
CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 4 DISTRICT OF MATSQUI				DESIGN D.A. COLEMAN SCALE 1/8" = 1'-0"	
DATE 19 May 1972				DATE APRIL 1972	
APPROVED FOR THE PROVINCE OF BRITISH COLUMBIA				CHECKED APPROVED	
NO. 2		DATE 10-2-73		BY D.J.P.	
AS CONSTRUCTED		REVISIONS		ENG.	

SUPERSEDES ALL PREVIOUS PRINTS WITH A NUMBER LOWER THAN 1