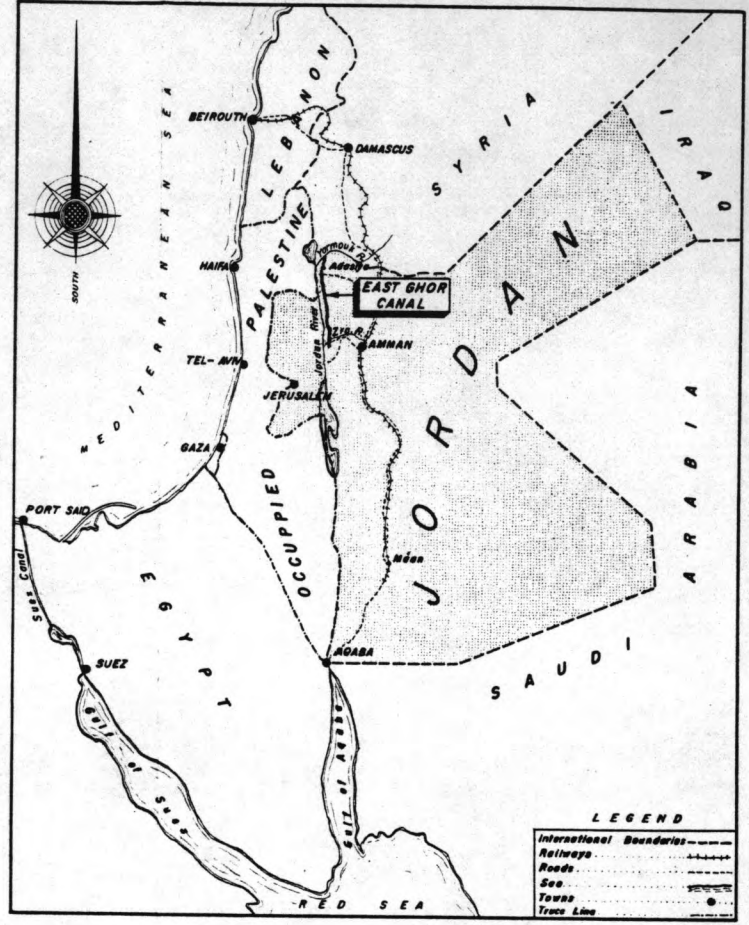


- STA. 2+080.00 2'-00" CONC. PIPE CULVERT
- STA. 2+1072.00 DROP STRUCTURE
- STA. 2+1687.00 0.80 CONC. PIPE CULVERT
- STA. 3+1300.00 0.80 CONC. PIPE CULVERT
- STA. 4+1350.00 0.75 LATERAL TURNOUT
- STA. 5+1200.00 0.80 CONC. PIPE CULVERT
- STA. 5+5400.00 WASTEWAY
- STA. 5+5480.00 CHECK
- STA. 5+925.00 0.80 CONC. PIPE CULVERT
- STA. 6+585.00 HIGHWAY BRIDGE (SEC.)
- STA. 6+615.00 0.75 LATERAL TURNOUT
- STA. 6+626.80 POINT J.X.
- STA. 7+120.00 0.75 LATERAL TURNOUT
- STA. 7+225.58 CONC. BOX SIPHON
- STA. 8+241.82 IRRIGATION LATERAL INLET
- STA. 10+1942.00 WATERING FACILITIES
- STA. 10+285.00 HIGHWAY BRIDGE (PRIMARY)
- STA. 11+364.00 LEO LATERAL TURNOUT
- STA. 11+025.00 0.80 CONC. PIPE CULVERT
- STA. 12+745.00 0.75 LATERAL TURNOUT
- STA. 12+780.00 CHECK
- STA. 14+030.00 WATERING FACILITIES
- STA. 14+140.00 FOOT BRIDGE
- STA. 14+160.00 0.80 CONC. PIPE CULVERT
- STA. 14+350.00 ILC PIPE CROSSING
- STA. 14+380.00 1.20 LATERAL TURNOUT
- STA. 15+180.00 0.80 CONC. PIPE CULVERT
- STA. 15+1945.00 FOOT BRIDGE
- STA. 16+1820.00 2'-18" X 18" CONC. BOX CULVERT
- STA. 16+1840.00 0.60 LATERAL TURNOUT
- STA. 17+1370.00 0.80 CONC. PIPE CULVERT
- STA. 17+550.00 0.60 LATERAL TURNOUT
- STA. 18+1973.00 0.60 LATERAL TURNOUT
- STA. 18+1985.73 HIGHWAY BRIDGE (SEC.)
- STA. 19+320.00 0.60 LATERAL TURNOUT
- STA. 20+3025.00 FLUME
- STA. 20+180.00 0.75 LATERAL TURNOUT
- STA. 21+100.00 0.75 LATERAL TURNOUT
- STA. 22+000.00 0.75 LATERAL TURNOUT
- STA. 22+170.00 FLUME
- STA. 22+985.00 0.80 LATERAL TURNOUT
- STA. 24+226.00 0.60 LATERAL TURNOUT
- STA. 24+286.00 0.80 CONC. PIPE CULVERT
- STA. 24+286.00 HIGHWAY BRIDGE (SEC.)
- STA. 24+286.00 WATERING FACILITIES
- STA. 24+790.00 CHECK
- STA. 26+500.00 0.75 LATERAL TURNOUT
- STA. 26+540.00 0.80 CONC. PIPE CULVERT
- STA. 27+100.00 0.75 LATERAL TURNOUT
- STA. 27+124.00 CHECK
- STA. 27+162.00 0.80 CONC. PIPE CULVERT
- STA. 0+000.00 INTAKE STRUCTURE
- STA. 0+120.00 TUNNEL INLET PORTAL
- STA. 1+080.00 TUNNEL OUTLET PORTAL
- STA. 1+180.00 SLUICeway
- STA. 1+550.00 0.80 LATERAL TURNOUT
- STA. 3+140.00 HIGHWAY BRIDGE (SEC.)
- STA. 3+700.00 0.80 CONC. PIPE CULVERT
- STA. 4+180.00 0.80 LATERAL TURNOUT
- STA. 4+200.00 0.80 CONC. PIPE CULVERT
- STA. 4+350.00 0.90 CONC. PIPE CULVERT
- STA. 4+740.00 HIGHWAY BRIDGE (SEC.)
- STA. 7+120.00 WATERING FACILITIES
- STA. 8+540.00 CHECK
- STA. 9+151.36 CONC. BOX SIPHON
- STA. 9+172.00 0.80 LATERAL TURNOUT
- STA. 11+320.00 HIGHWAY BRIDGE (SEC.)
- STA. 11+400.00 1.20 LATERAL TURNOUT
- STA. 11+494.00 WASTEWAY
- STA. 11+506.00 CHECK
- STA. 11+521.50 FLUME
- STA. 11+900.00 0.90 LATERAL TURNOUT
- STA. 12+036.58 IRRIGATION LATERAL INLET
- STA. 12+195.00 0.80 CONC. PIPE CULVERT
- STA. 13+735.00 0.80 CONC. PIPE CULVERT
- STA. 15+750.00 0.75 LATERAL TURNOUT
- STA. 16+185.00 0.60 LATERAL TURNOUT
- STA. 16+185.00 CHECK
- STA. 15+182.00 HIGHWAY BRIDGE (PRIMARY)
- STA. 15+180.00 0.90 CONC. PIPE CULVERT
- STA. 16+340.00 0.60 LATERAL TURNOUT
- STA. 16+380.00 0.60 CONC. PIPE CULVERT
- STA. 16+185.00 CHECK
- STA. 16+185.00 HIGHWAY BRIDGE (SEC.)
- STA. 18+118.00 HIGHWAY BRIDGE (PRIMARY)
- STA. 18+135.00 0.60 LATERAL TURNOUT
- STA. 18+195.00 WASTEWAY
- STA. 19+100.00 CHECK
- STA. 19+100.00 FLUME
- STA. 19+750.00 0.90 CONC. PIPE CULVERT
- STA. 20+120.00 0.75 LATERAL TURNOUT
- STA. 20+150.00 CHECK
- STA. 21+250.00 0.90 LATERAL TURNOUT
- STA. 21+250.00 CHECK
- STA. 21+600.00 HIGHWAY BRIDGE (PRIMARY)
- STA. 21+700.00 IRRIGATION LATERAL INLET
- STA. 23+750.00 0.75 CONC. PIPE CULVERT
- STA. 23+760.00 0.75 LATERAL TURNOUT
- STA. 24+750.00 0.75 LATERAL TURNOUT
- STA. 24+1000.00 0.90 CONC. PIPE CULVERT
- STA. 24+182.00 0.60 LATERAL TURNOUT
- STA. 24+180.00 0.75 LATERAL TURNOUT
- STA. 26+000.00 2'-18" CONC. PIPE CULVERT
- STA. 26+125.00 2'-18" CONC. PIPE CULVERT

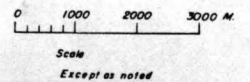
	By	Date	Chkd	Date
Dsn.				
Drwn.				
Trac.				
Sub				



VICINITY MAP

LEGEND

- International Boundaries
- Railways
- Roads
- Sea
- Towns
- Trace Line



HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

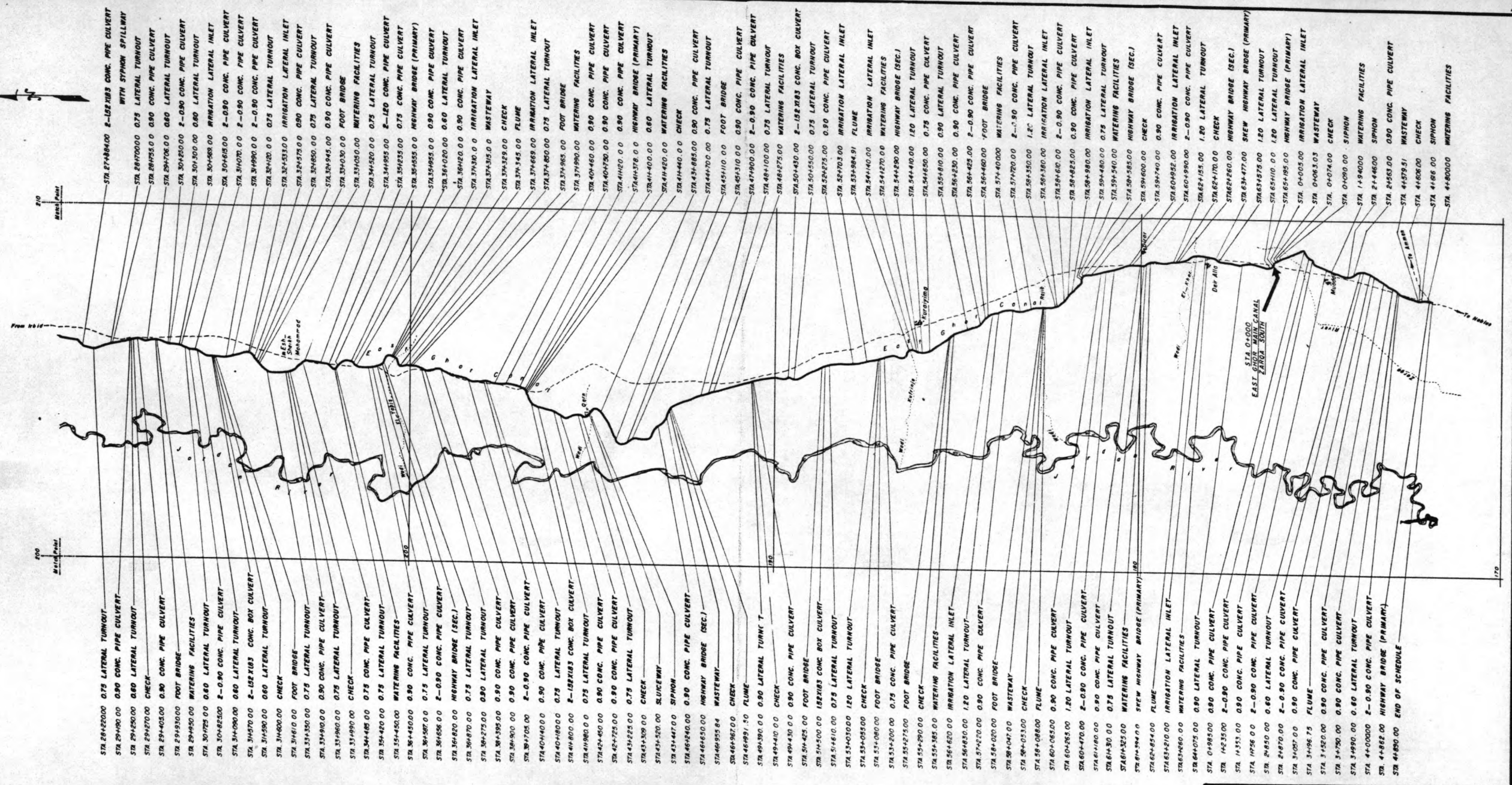
LOCATION MAP
SHEET 1

APPROVED: _____

AMMAN, JORDAN	DATE	DWG. NO.
	1.9.1958.	EGC/1

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

By	Date	Chkd	Date
Den.			
Drwn.	10/15/58	10/15/58	1/58
Trac.			
Sub.			



HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

LOCATION MAP
SHEET 2

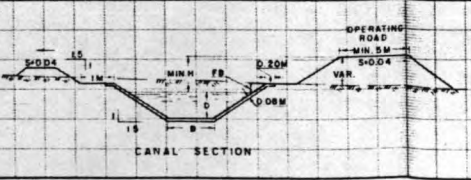
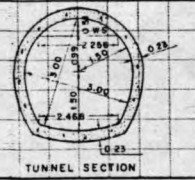
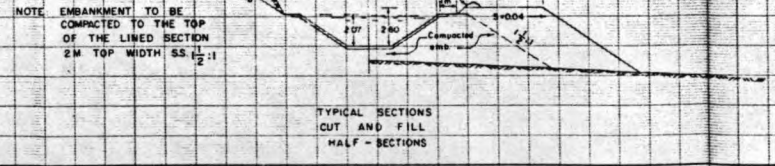
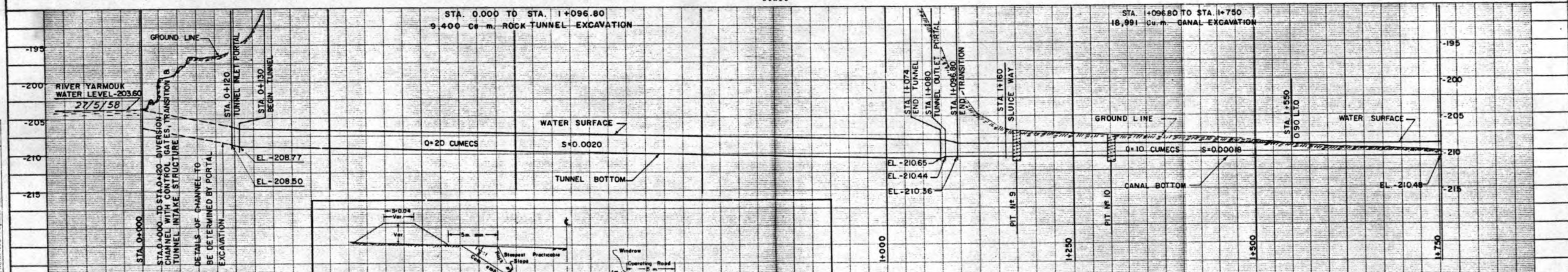
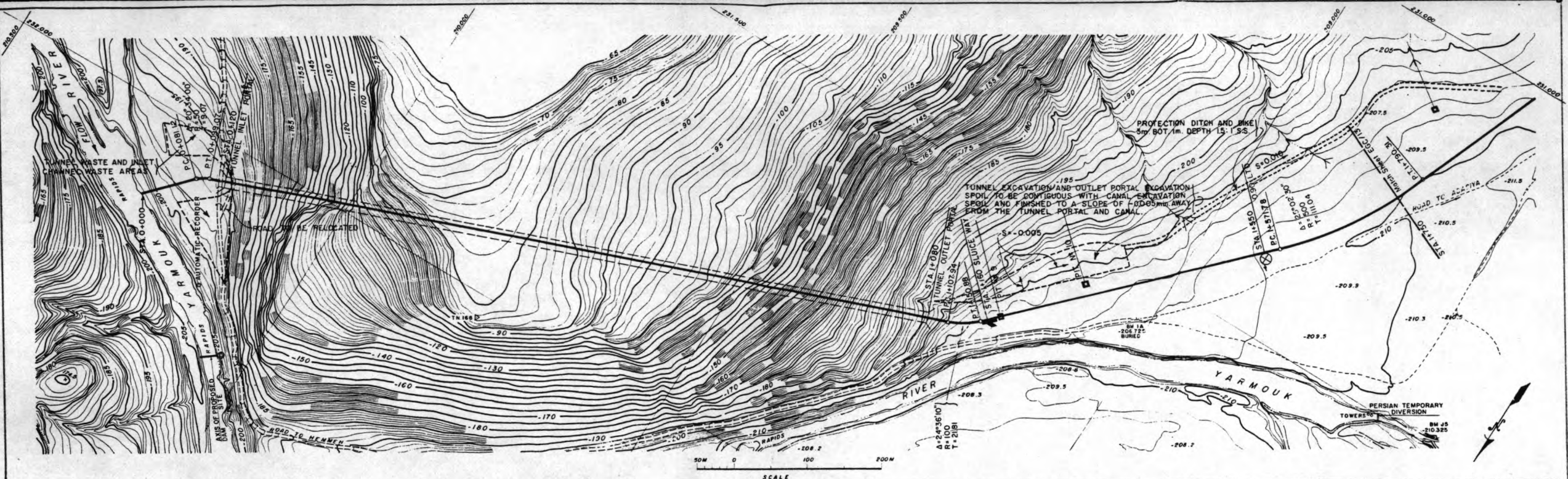
APPROVED _____

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/2

Prepared under the supervision of
MICHAEL BAKER, JR., INC. & HARZA ENGINEERING CO.

PLAN
 SURVEYED, PLOTTED, CHECKED, NOTE BOOK NO. 41, DATE 4/1/58
 NO. 1

PROFILE
 SURVEYED, PLOTTED, CHECKED, NOTE BOOK NO. 41, DATE 4/1/58
 NO. 1



By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.	4/1/58		
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
TUNNEL	20	6.69	2.95	2.49					0.0020	0.014
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00016	0.014

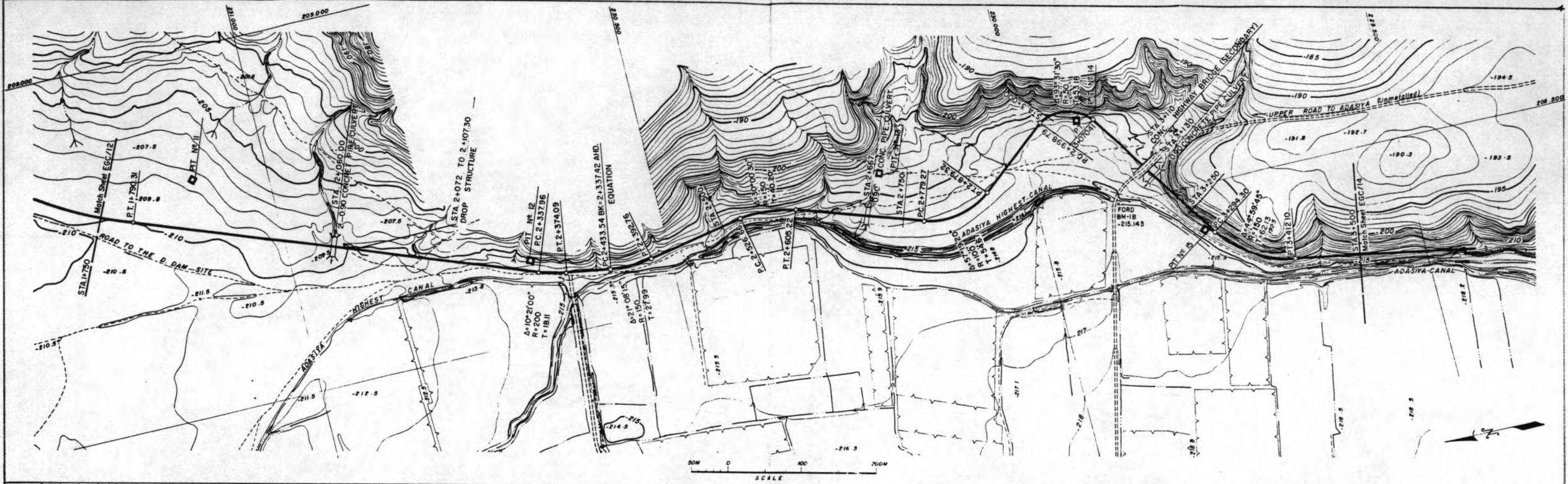
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 0+000 TO Sta. 1+750

APPROVED: [Redacted Signature]

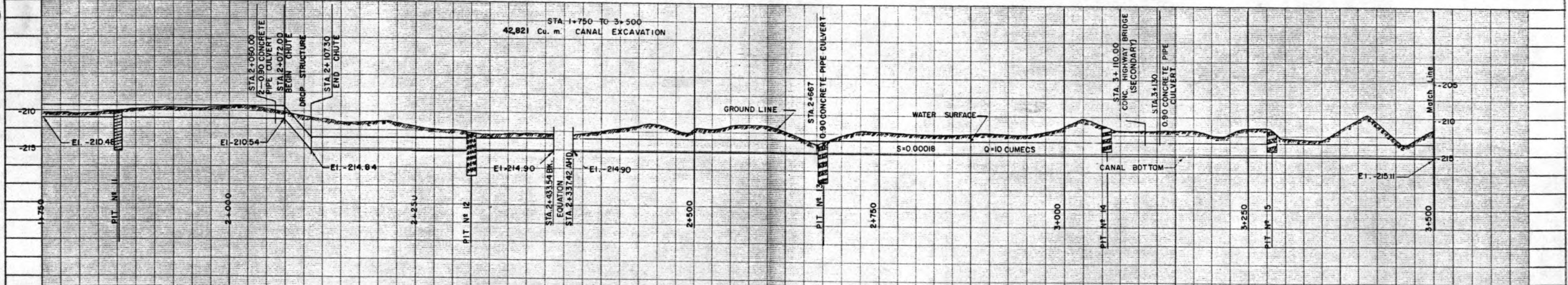
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN DATE: 4/5/1958 DWG. NO. Sheet of EGC/12

DATE: _____ BY: _____
 PLAN
 QUANTITIES CHECKED
 PLOTTED
 ALIGNMENT CHECKED
 NOTE BOOK
 P.T. OF WORK CHECKED
 NO. _____

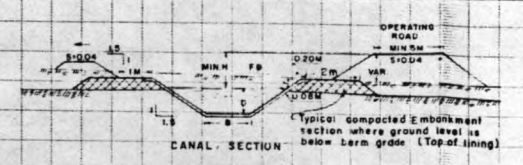


DATE: _____ BY: _____
 PROFILE
 QUANTITIES CHECKED
 PLOTTED
 GRADES CHECKED
 NOTE BOOK
 STRUCTURE NOTATION CHECKED
 NO. _____



By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.	1-20	4/6/88	
Sut.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	ID	9.96	100	1.77	2.97	100	0.30	0.83	0.00018	0.014

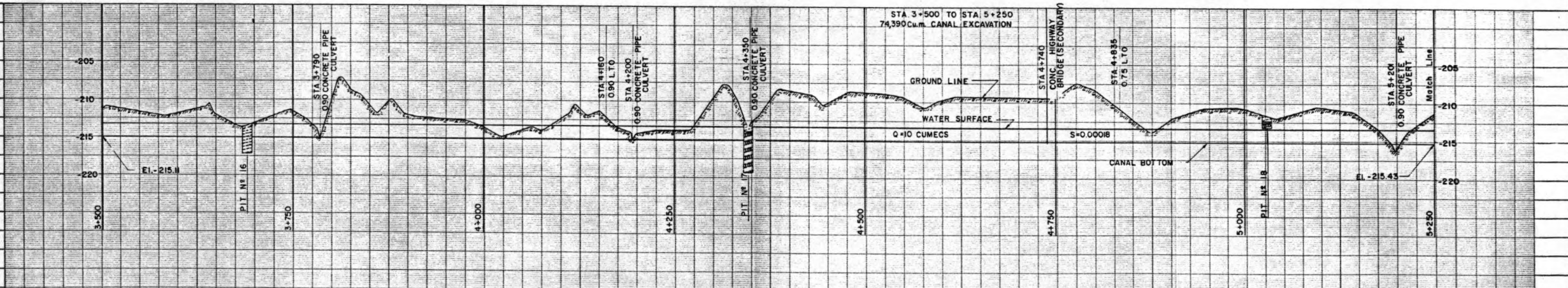
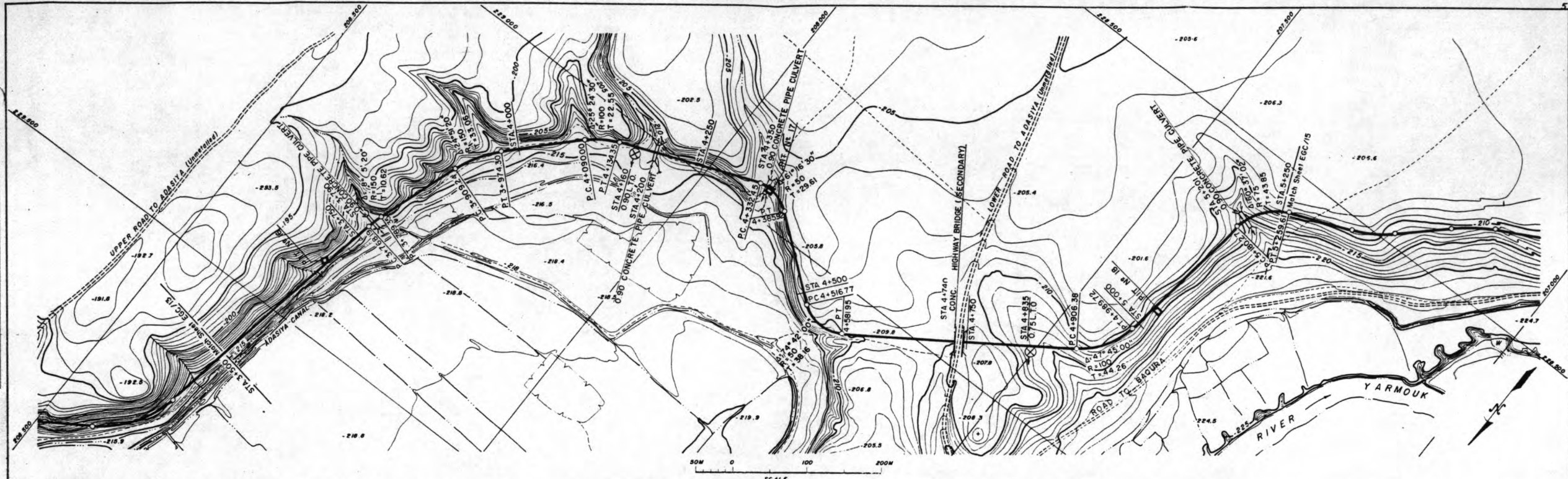


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 1+750 TO Sta. 3+500

APPROVED: _____

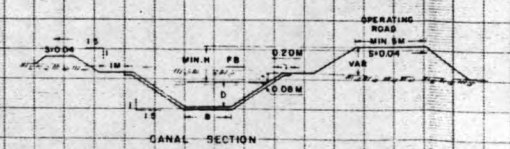
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO
 AMMAN, JORDAN
 DATE: 4/6/1988
 DWG. NO. Sheet of
 EGC / 13

NOTED
 CHECKED
 RT. OF WAY CHECKED
 NO.



By	Date	Chkd	Date
Surr.			
Dsn.			
Drwn.	10/11/50		4/6/50
Su			

HYDRAULIC PROPERTIES											
SECTION	Q	A	V	D	B	R	F	B	H	S	M
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.82	0.00018	0.014	



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 3+500 TO Sta. 5+250

APPROVED: [Redacted Signature]

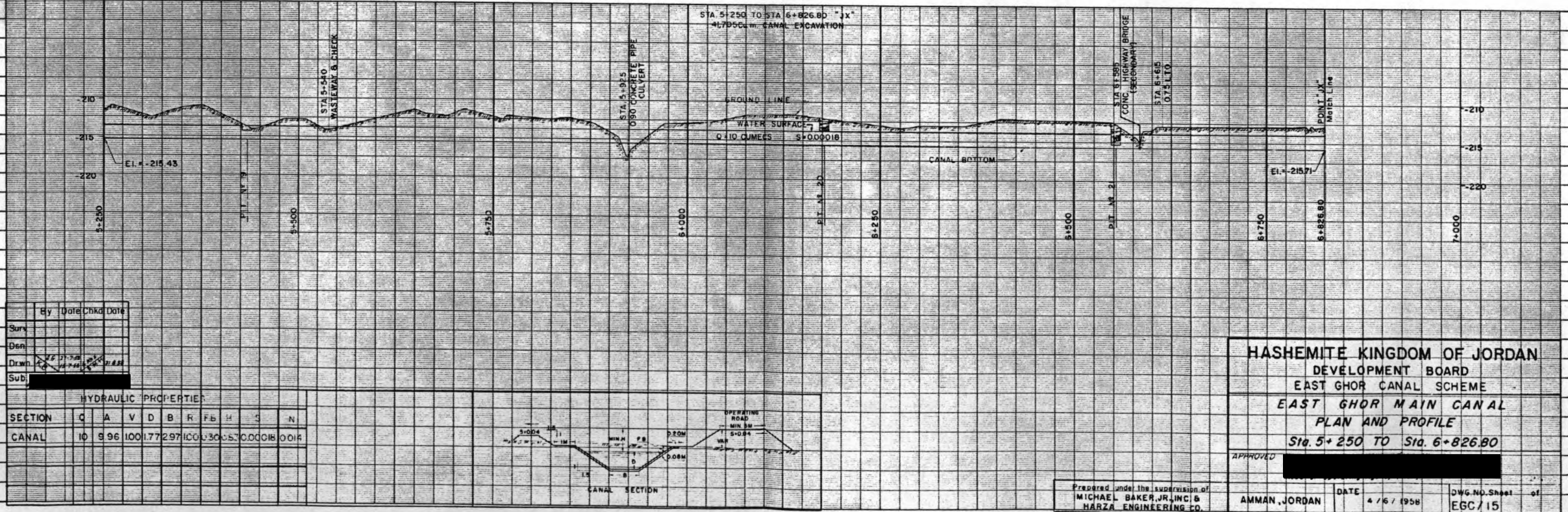
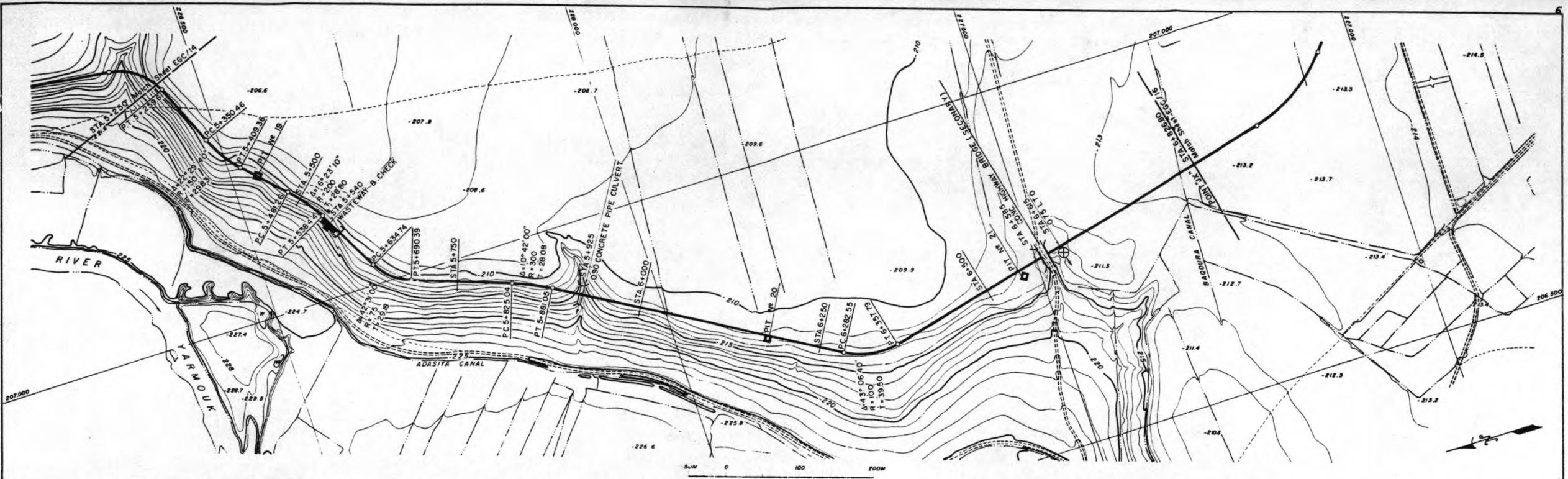
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. B
 HARZA ENGINEERING CO

AMMAN, JORDAN DATE: 4/6/1958

DWG. NO. Sheet of
 EGC / 14

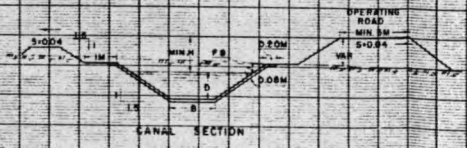
NOTE BOOK NO. 1000
 PLOTTED BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

NOTE BOOK NO. 1000
 PLOTTED BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]



By	Date	Chkd	Date
Surf			
Des			
Draw			
Sub			

HYDRAULIC PROPERTIES										
SECTION	C	A	V	D	B	R	F	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.57	0.00	0.018



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 5+250 TO Sta. 6+826.80

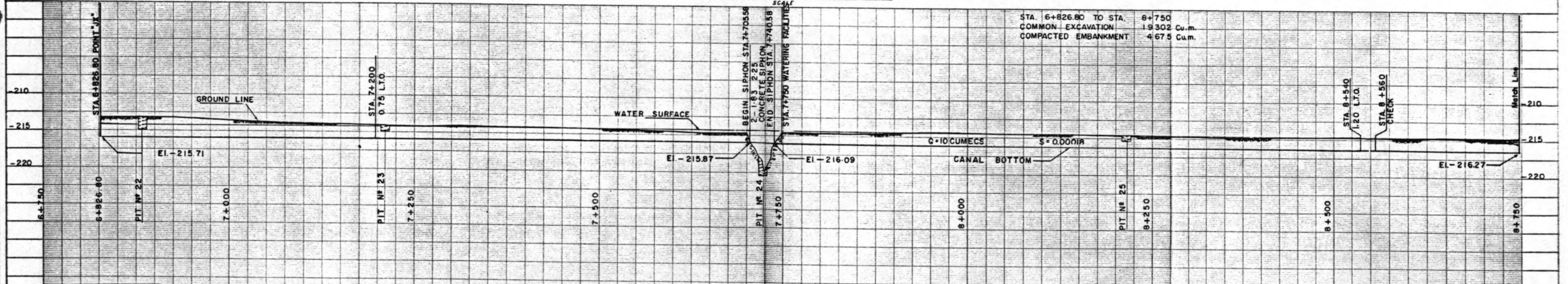
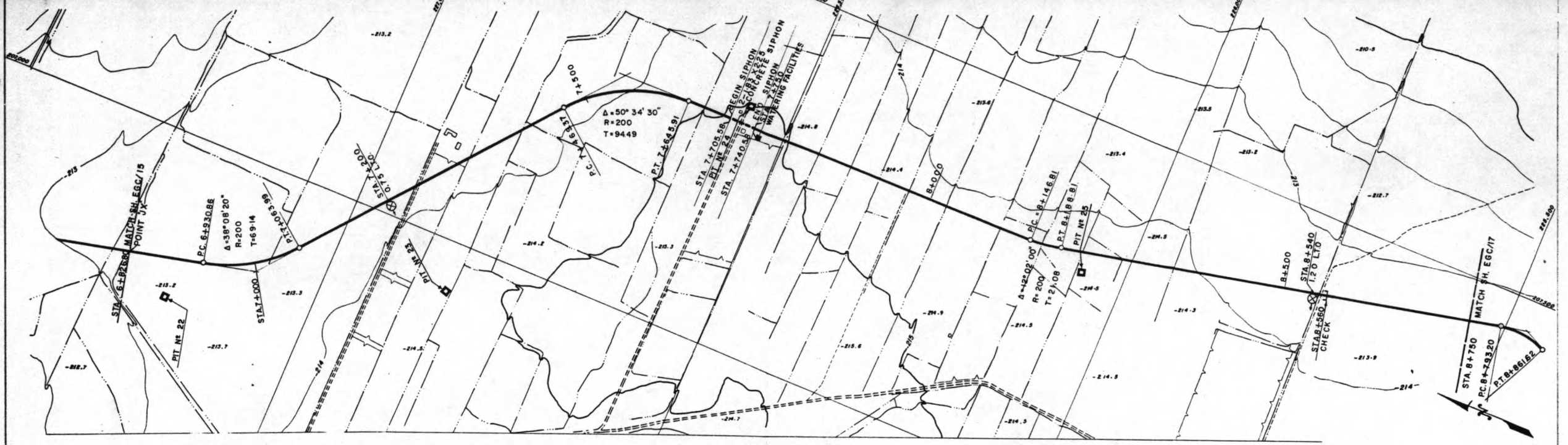
APPROVED: [Signature]

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 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN DATE 4/6/1958 DWG. No. Sheet of EGC/15

DATE
BY
PLANNED
CHECKED
NOTE BOOK
NO.

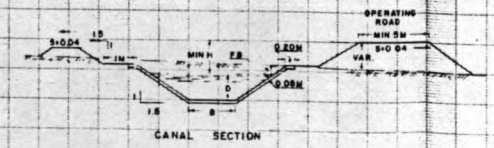
DATE
BY
PROFILING
CHECKED
NOTE BOOK
NO.



STA. 6+826.80 TO STA. 8+750
COMMON EXCAVATION 19302 Cu.m.
COMPACTED EMBANKMENT 4675 Cu.m.

By	Date	Chkd	Date
Surv			
Dsn			
Drwn			
Sub.			

SECTION	HYDRAULIC PROPERTIES									
	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	297	100	0.30	0.83	0.00016	0.014
SIPHON	20	8.24	2.43	2.25	183	0.50				0.014



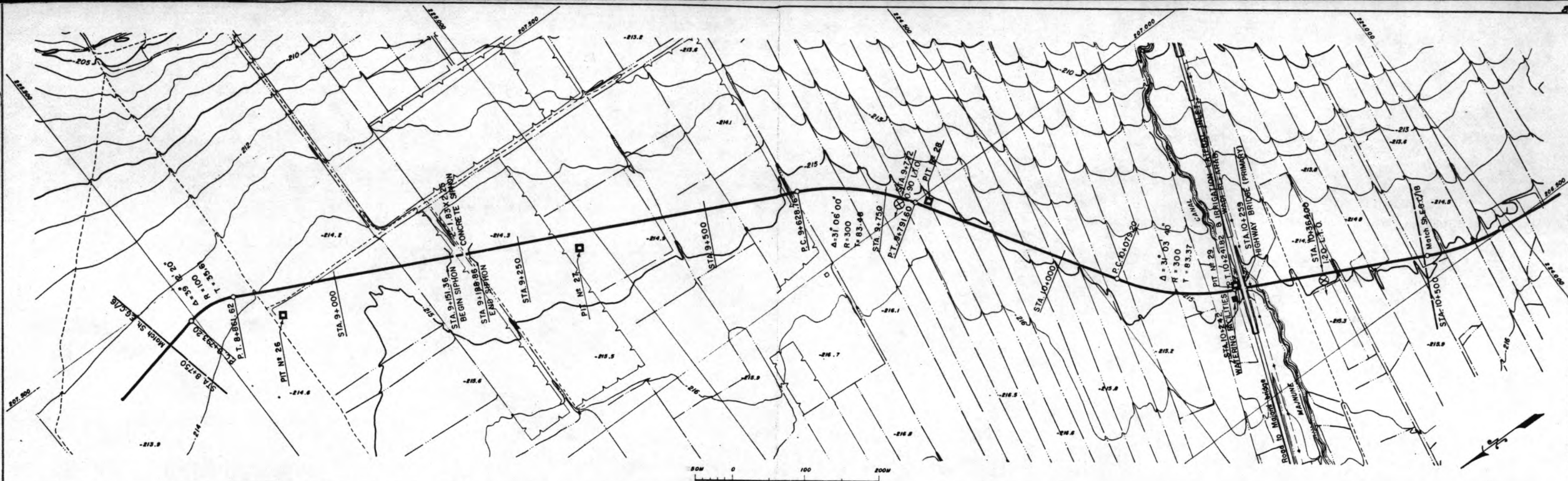
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME
EAST GHOR MAIN CANAL
PLAN AND PROFILE
Sta. 6+82680 TO Sta. 8+750.00

APPROVED [Signature]

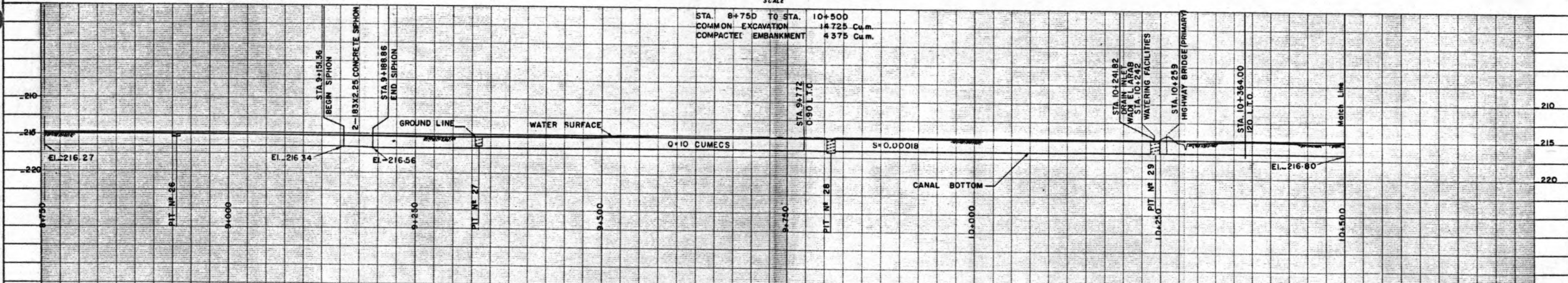
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. Sheet of EGC/16

Prepared under the supervision of
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HARZA ENGINEERING CO.

PLAN
 SURVEYED, PLOTTED, CHECKED, AND NOTED BY: [Signature]
 NOTE BOOK NO. []
 NO. OF SHEETS []
 NO. OF WAY CHECKED []



SCALE
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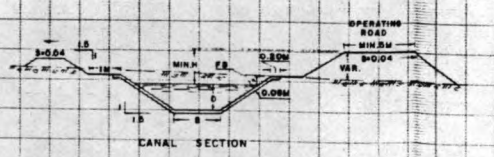


STA. 8+750 TO STA. 10+500
 COMMON EXCAVATION 18725 Cu.m.
 COMPACTED EMBANKMENT 4375 Cu.m.

PROFILE
 SURVEYED, PLOTTED, CHECKED, AND NOTED BY: [Signature]
 NOTE BOOK NO. []
 NO. OF SHEETS []
 NO. OF WAY CHECKED []

By	Date	Chkd	Date
Surv.			
Dss.			
Drwn			
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
SIPHON	20	8.24	2.43	2.25	1.63	0.50				0.014

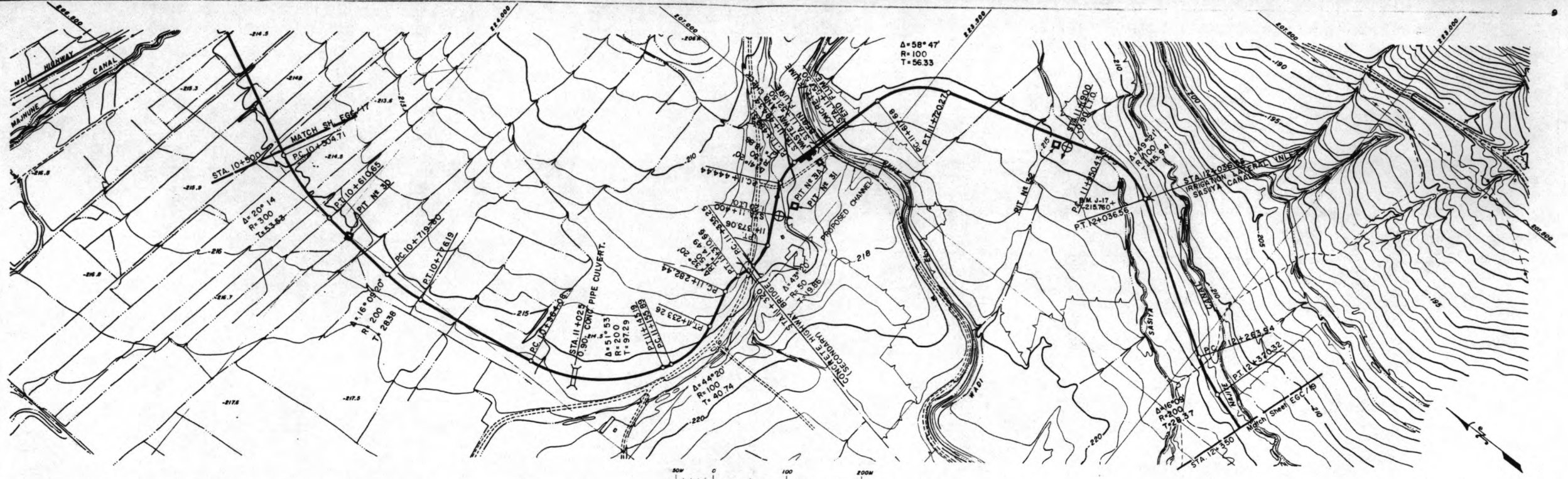


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 8+750 TO Sta. 10+500

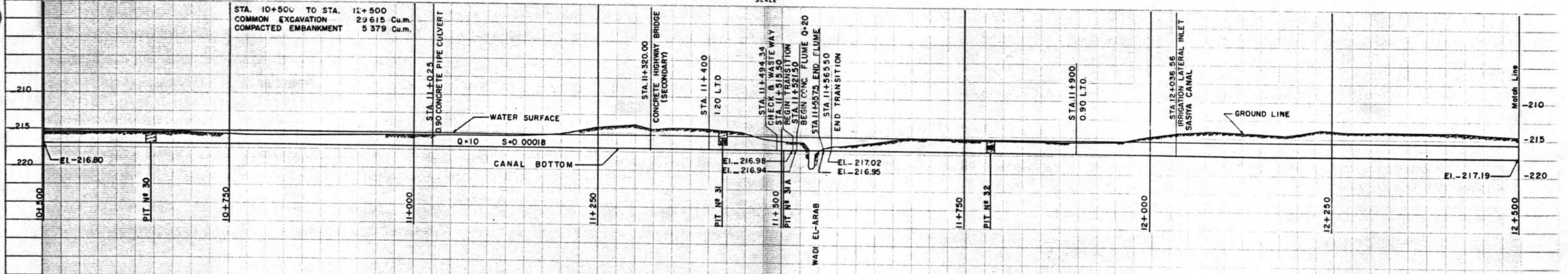
APPROVED: [Signature]
 AMMAN, JORDAN DATE: 1-9-1958 DWR No. Sheet of EGC / 17

Prepared under the supervision of
 MICHAEL BAYER, JR. INC. &
 HARZA ENGINEERING CO.

DATE: _____ BY: _____
 CHECKED: _____
 DATE: _____ BY: _____
 PLAN
 SURVEYED
 PLOTTED
 ALIGNMENT CHECKED
 NOTE BOOK NO. _____
 NO. _____



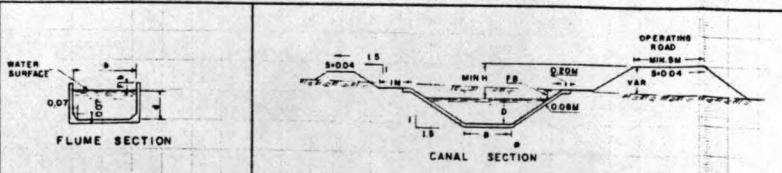
SCALE
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STA. 10+500 TO STA. 12+500
 COMMON EXCAVATION 29 615 Cu.m.
 COMPACTED EMBANKMENT 5 379 Cu.m.

By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
FLUME	20	12.50	1.60	2.43	5.18	1.25	0.50	—	0.00037	0.014



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 10+500 TO Sta. 12+500

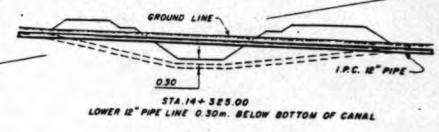
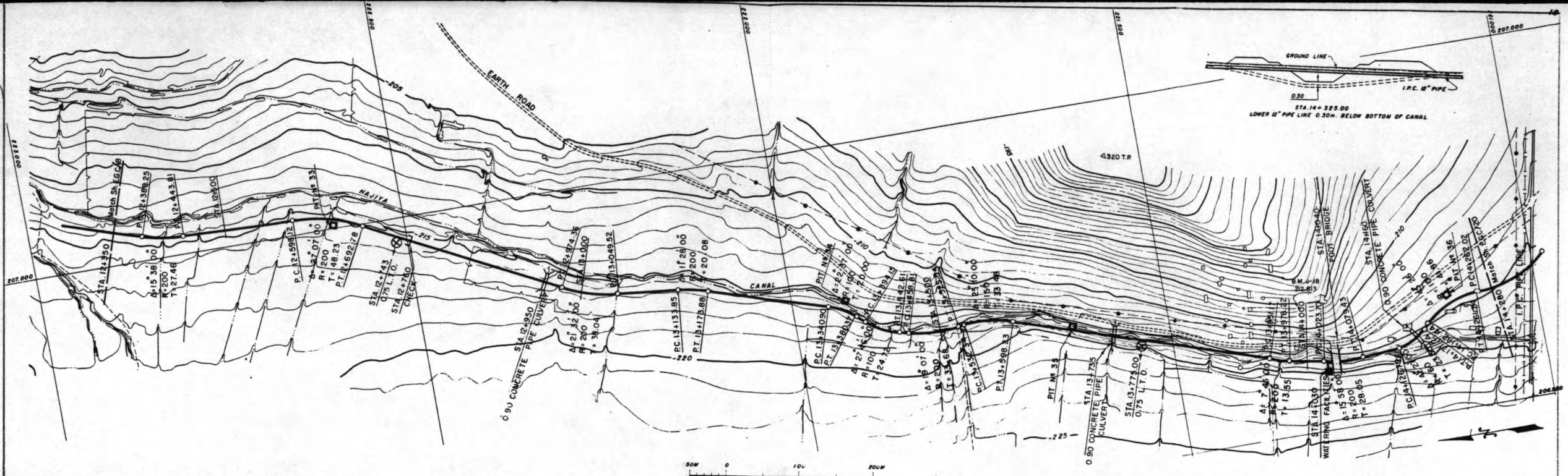
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AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC/18

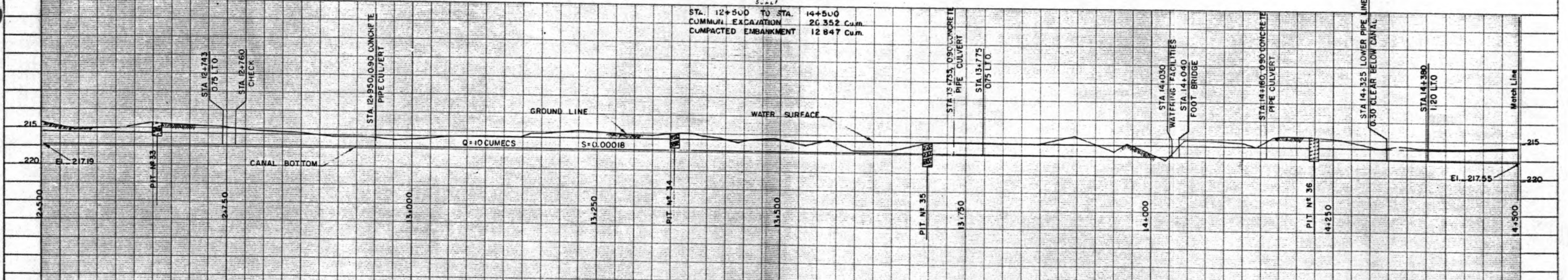
Prepared under the supervision of
 MICHAEL BAKER, JR., INC &
 HARZA ENGINEERING CO.

PLAN
 DESIGNED BY
 CHECKED BY
 DATE

PROFILE
 DESIGNED BY
 CHECKED BY
 DATE

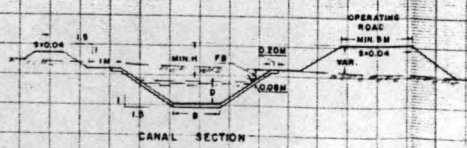


STA. 12+500 TO STA. 14+500
 COMMON EXCAVATION 26,352 Cu.m.
 COMPACTED EMBANKMENT 12,847 Cu.m.



By	Date	Chkd	Date
Surf.			
Des.			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	ID	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 12+500 TO Sta. 14+500

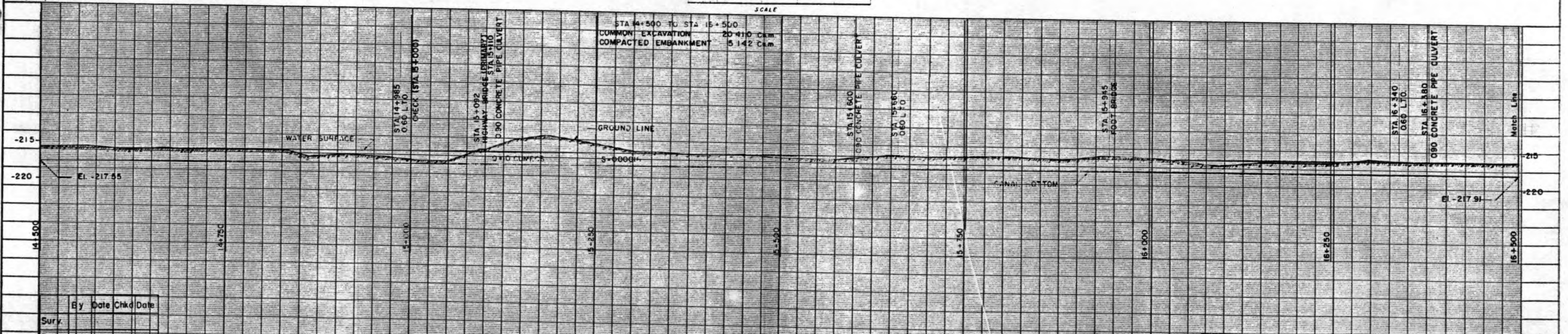
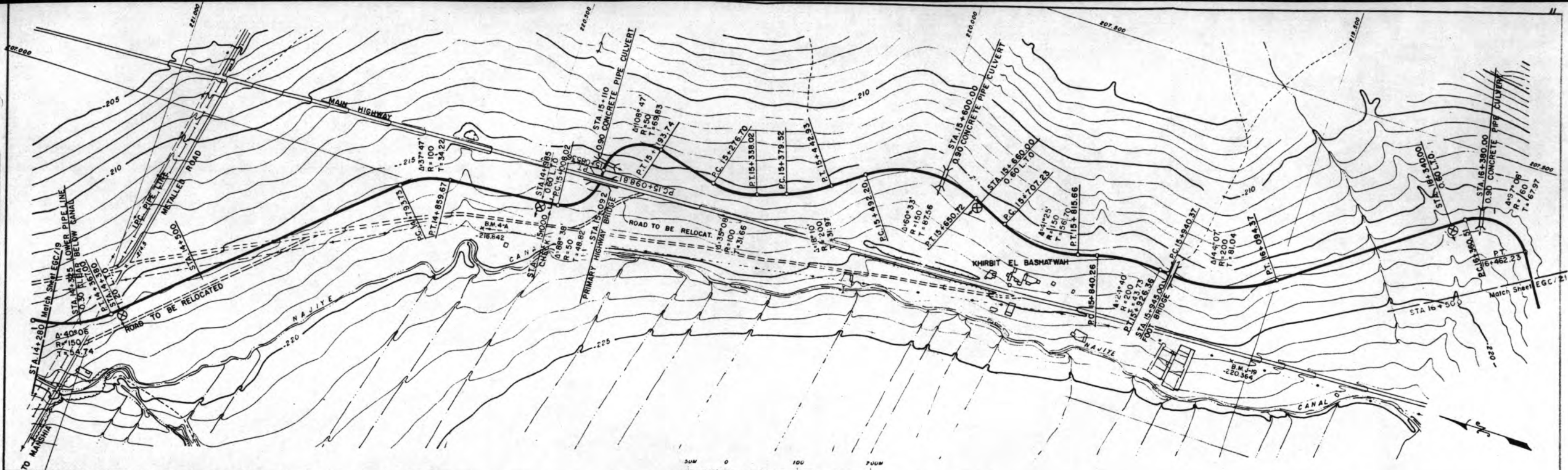
APPROVED: [Redacted Signature]

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 HARZA ENGINEERING CO.

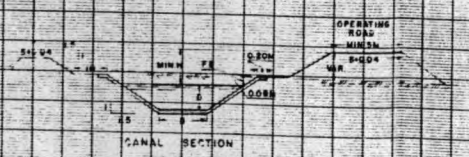
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. Sheet of EGC/19

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 ALIGNED CHECKED: _____
 NOTE BOOK: _____
 NO. _____
 PLAN

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 NO. _____
 PROFILE



SECTION	Φ	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	100	1.77	297	100	0.30	0.83	0.00	0.014



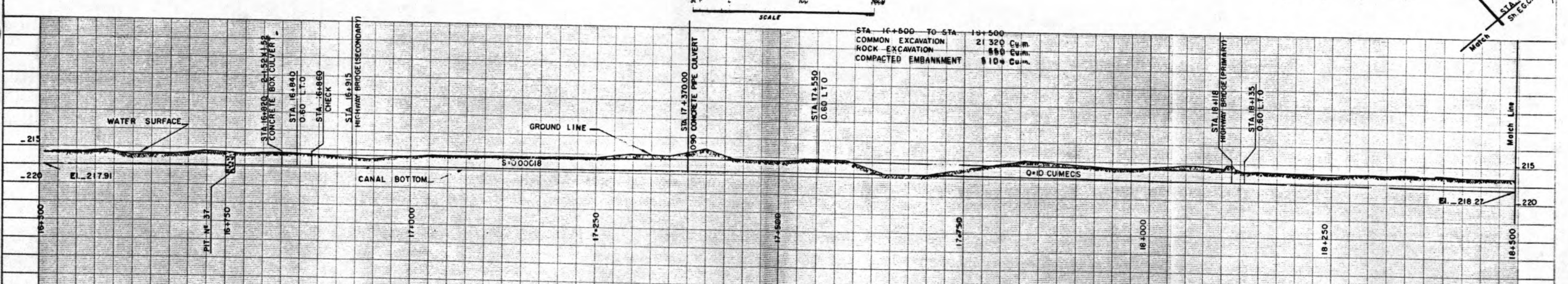
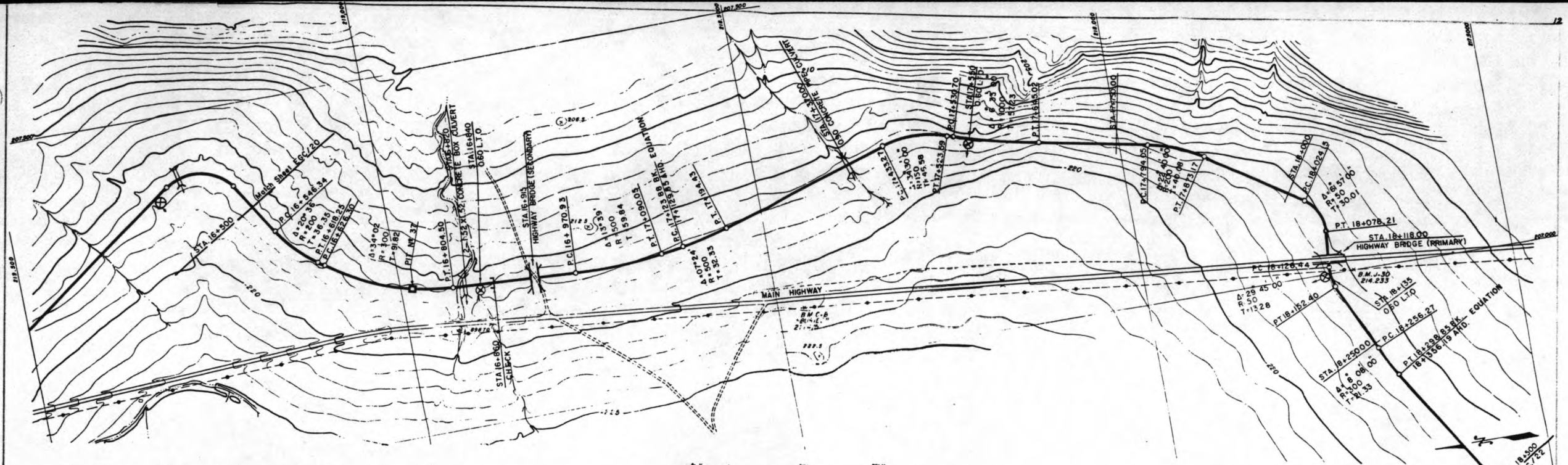
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 14+500 TO Sta. 16+500

APPROVED: _____
 ANMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC/20

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

PLAN
 SURVEYED
 PLOTTED
 ALIGNMENT CHECKED
 PL. OF INT. CHECKED
 NO. DATE BY

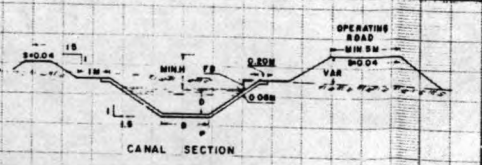
PROFILE
 SURVEYED
 PLOTTED
 G.M. NOTED
 STRUCTURE NOTAT. CHECKED
 NO. DATE BY



STA 16+500 TO STA 18+500
 COMMON EXCAVATION 21320 Cu.m.
 ROCK EXCAVATION 880 Cu.m.
 COMPACTED EMBANKMENT 910 Cu.m.

By	Date	Chkd	Date
Surv.			
Dsh.			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES											
SECTION	Q	A	V	D	B	R	F	B	H	S	N
CANAL	10	9.96	1.00	1.77	297	100	0.30	0.83	0.00018	0.00	0.00



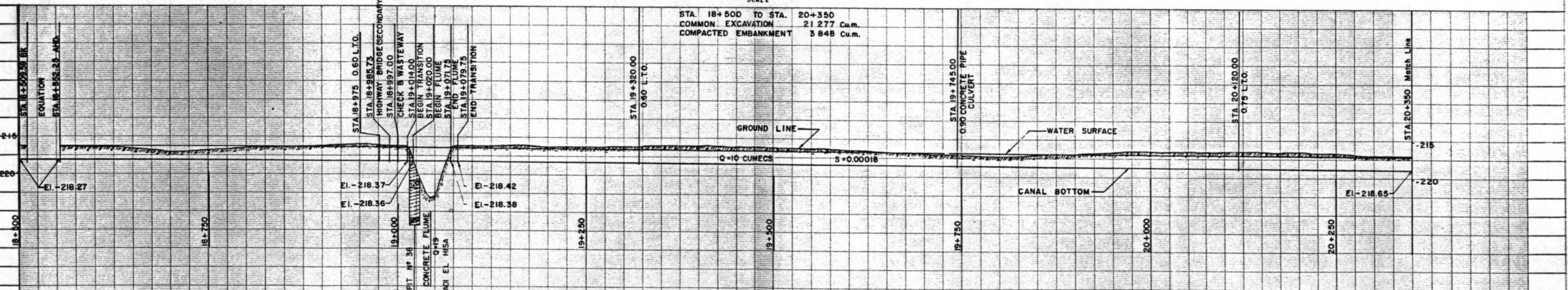
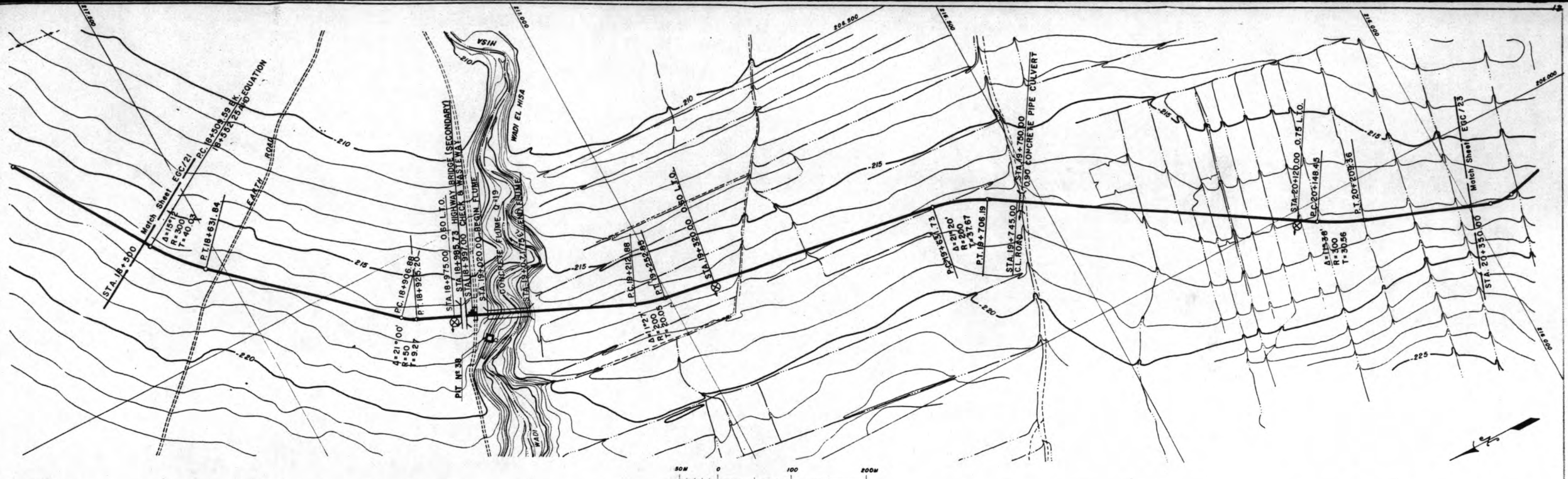
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta 16+500 TO Sta 18+500

APPROVED
 AMMAN, JORDAN
 DATE: 1-9-1958
 DWG. NO. Sheet of
 EGC / 21

Prepared under the supervision of
 MICHAEL BAKER, JR. INC. &
 HARZA ENGINEERING CO.

DATE: _____ BY: _____
 PLAN
 DESIGNED: _____
 CHECKED: _____
 DATE: _____

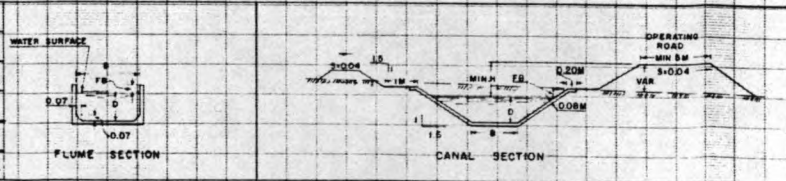
DATE: _____ BY: _____
 PROFILE
 DESIGNED: _____
 CHECKED: _____
 DATE: _____



STA. 18+500 TO STA. 20+350
 COMMON EXCAVATION 21 277 Cu.m.
 COMPACTED EMBANKMENT 5 848 Cu.m.

By	Date	Chkd	Date
Sury.			
Den.			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
FLUME	19	11.88	1.60	2.40	4.99	1.22	0.50	0.00038	0.014	

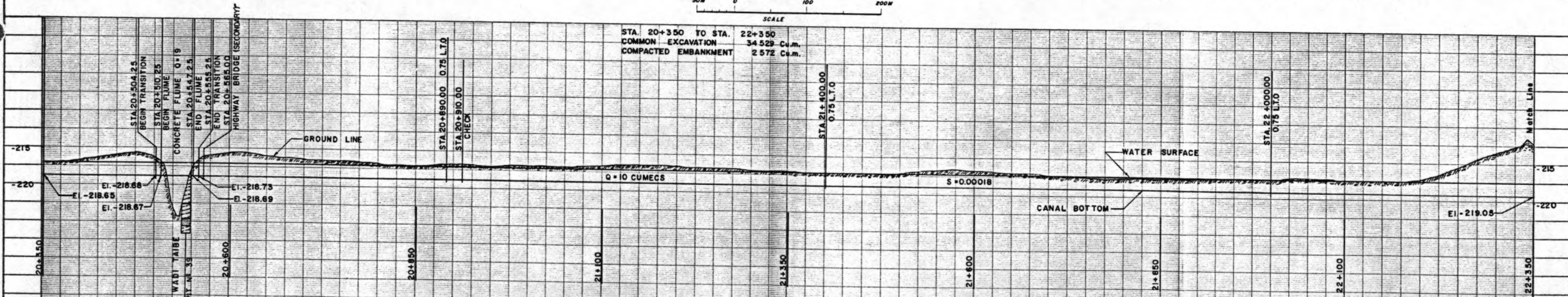
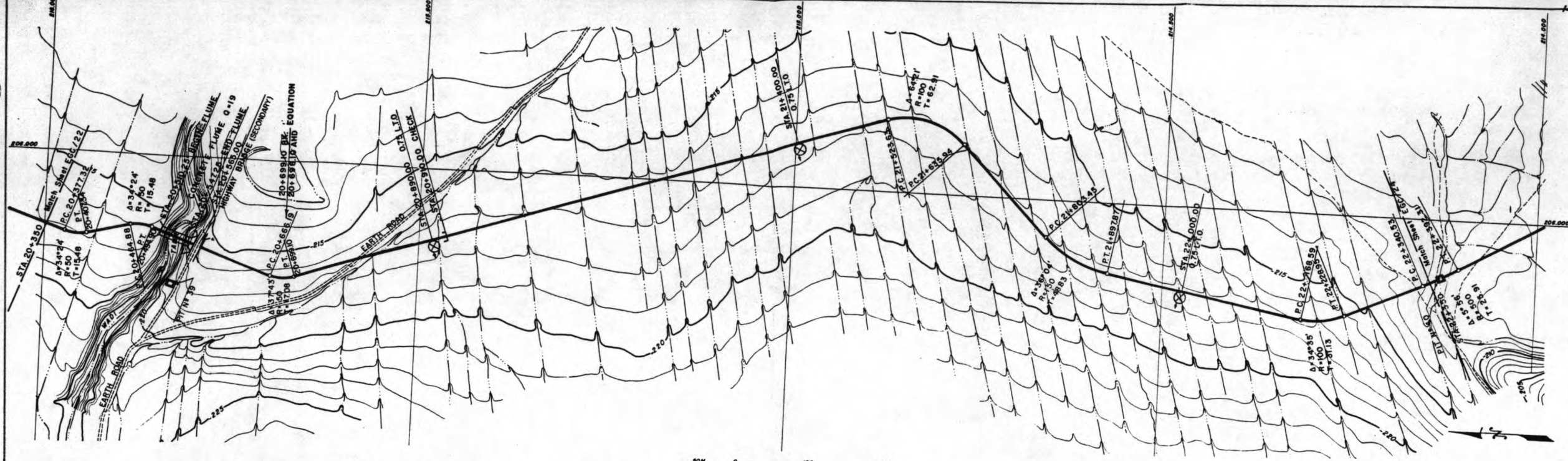


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 18+500 TO Sta. 20+350

APPROVED: _____
 AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC/22

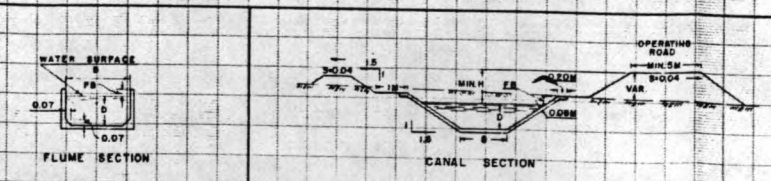
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 HARZA ENGINEERING CO.

PLAN
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 PLOTTED
 ALIGNED
 CHECKED
 DATE
 BY
 NO. 1000
 NOTE: MOON
 PL. UP
 PART
 CHECKED



By	Date	Chkd	Date
Surv			
Dsn			
Drawn			
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
FLUME	19	11.88	1.60	2.40	4.99	1.22	0.50	0.00038	0.014	

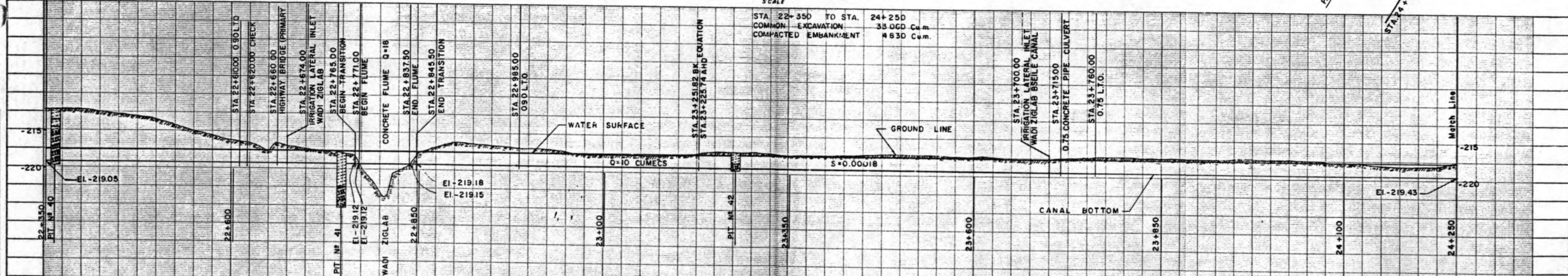
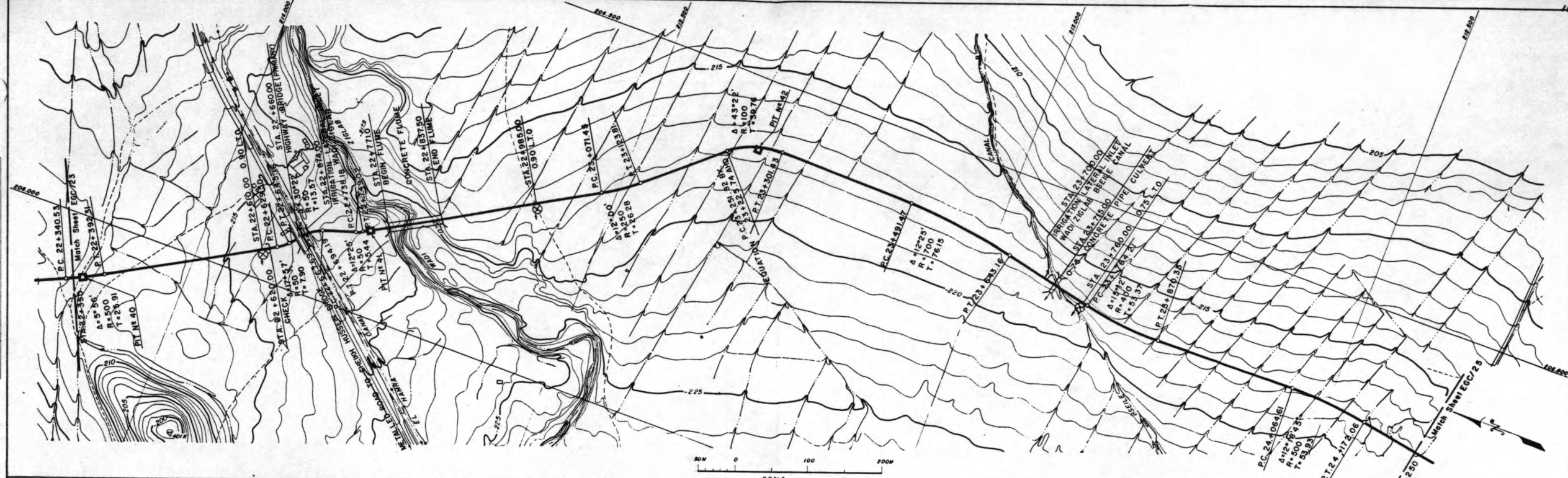


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta 20+350 TO Sta 22+350

APPROVED
 AMMAN, JORDAN
 DATE: 1-9-1958
 DWG. NO. Sheet of EGC/23

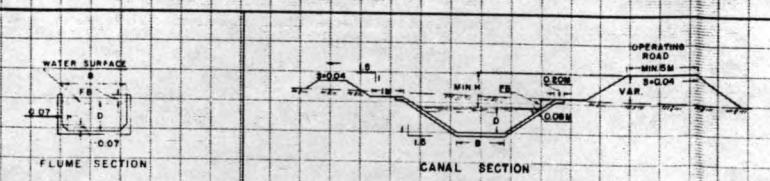
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 HARZA ENGINEERING CO.

PLAN
 SURVEYED: _____
 DRAWN: _____
 CHECKED: _____
 NO. _____
 NOTE BOOK: _____
 DATE: _____
 BY: _____
 OF: _____



By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES											
SECTION	Q	A	V	D	B	R	F	B	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00	0.18	0.014
FLUME	1B	11	25	1.60	2.35	4.83	1.18	0.50	0.00	0.04	0.014

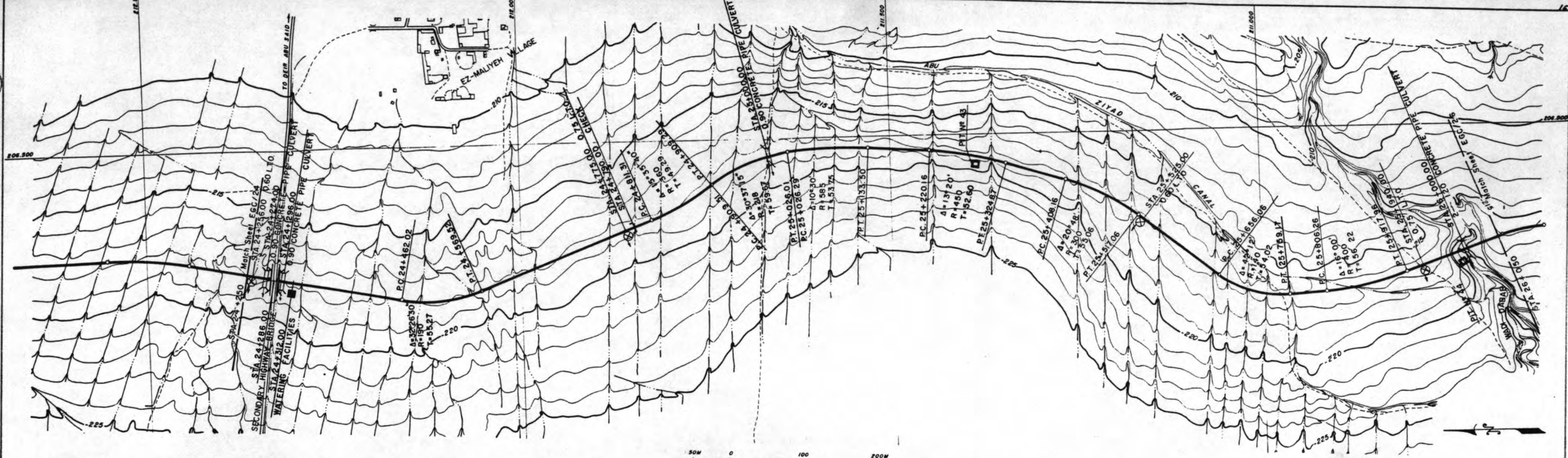


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 22+350 TO Sta. 24+250

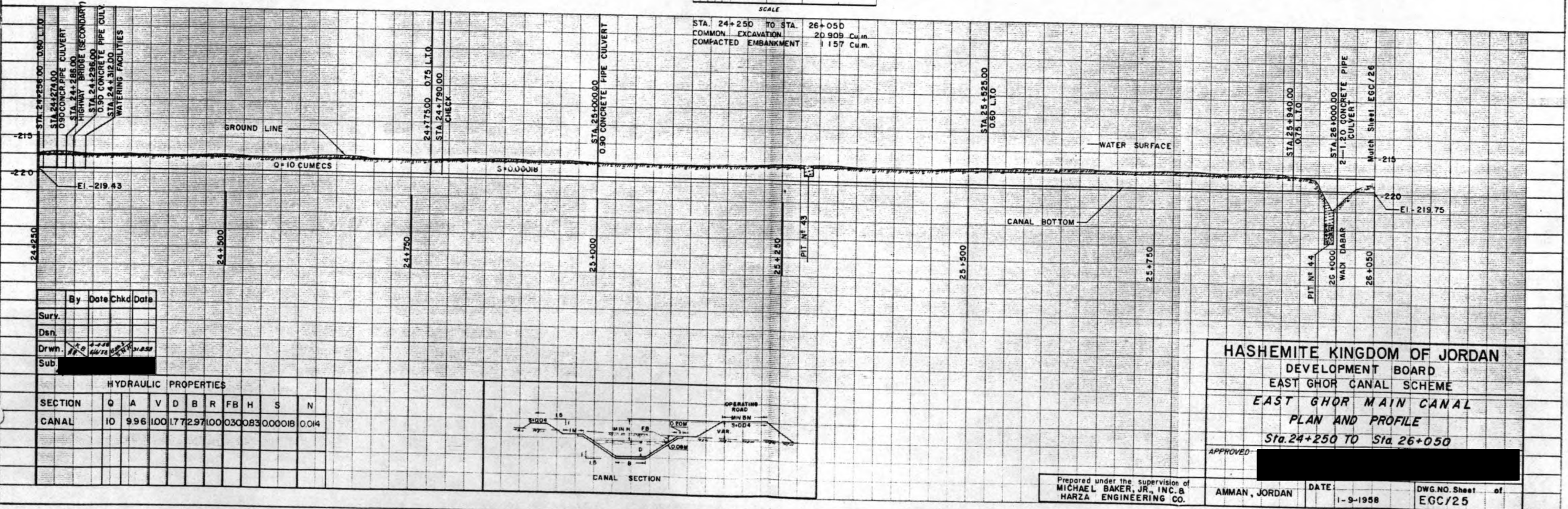
APPROVED: _____
 AMMAN, JORDAN DATE: 1-9-35b DWG. NO. Sheet of EGC/24

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

PLAN
 DRAWN BY: []
 CHECKED BY: []
 DATE: []
 NO. []



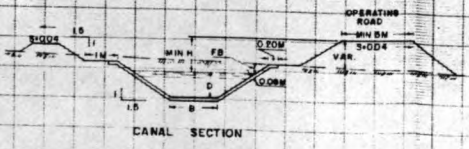
SCALE
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STA. 24+250 TO STA. 26+050
 COMMON EXCAVATION 20 908 Cu.m.
 COMPACTED EMBANKMENT 1 157 Cu.m.

By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	F	H	S	N
CANAL	ID	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00	0.14



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 24+250 TO Sta. 26+050

APPROVED: []

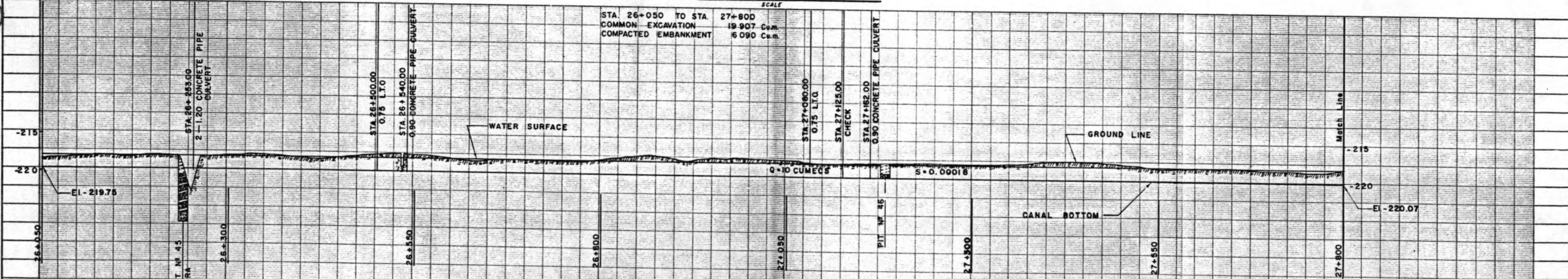
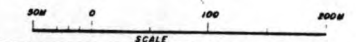
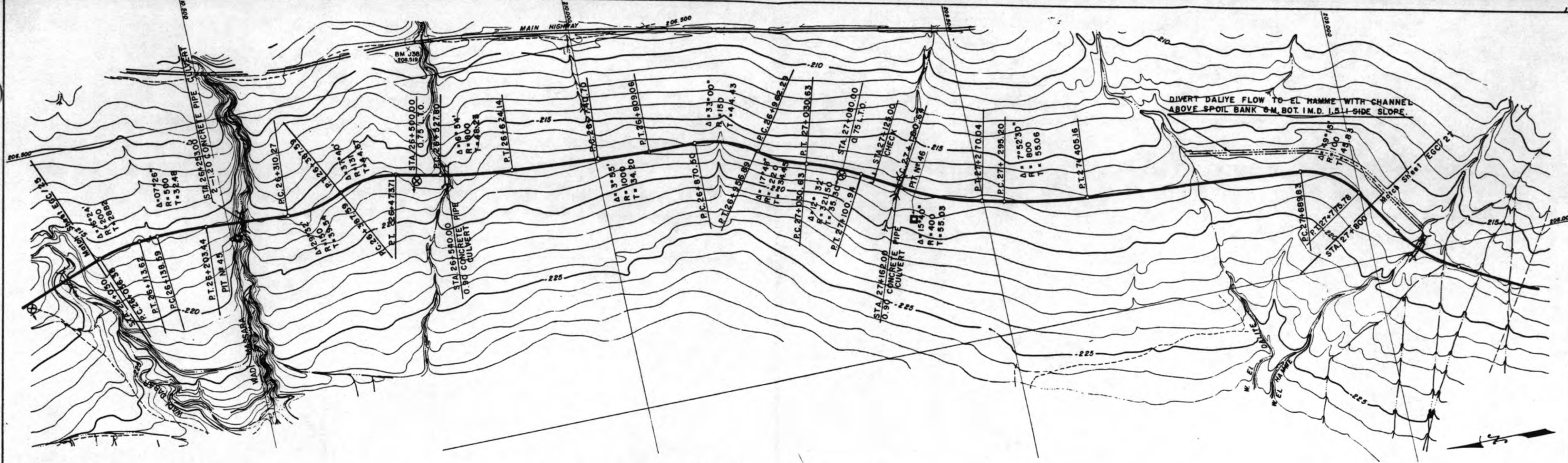
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 HARZA ENGINEERING CO.

AMMAN, JORDAN

DATE: 1-9-1958

DWG. NO. Sheet of
 EGC/25

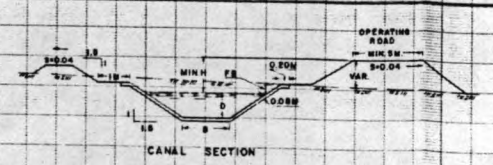
PLAN
 SURVEYED
 PLOTTED
 CHECKED
 BY M.F. NOTED
 STRUCTURE NOTING CHECKED
 NO. 1



STA 26+050 TO STA 27+800
 COMMON EXCAVATION 19.907 Cu.m.
 COMPACTED EMBANKMENT 6.090 Cu.m.

By	Date	Chkd	Date
Surv.			
Dsn			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	297	1.00	0.30	0.83	0.00018	0.014



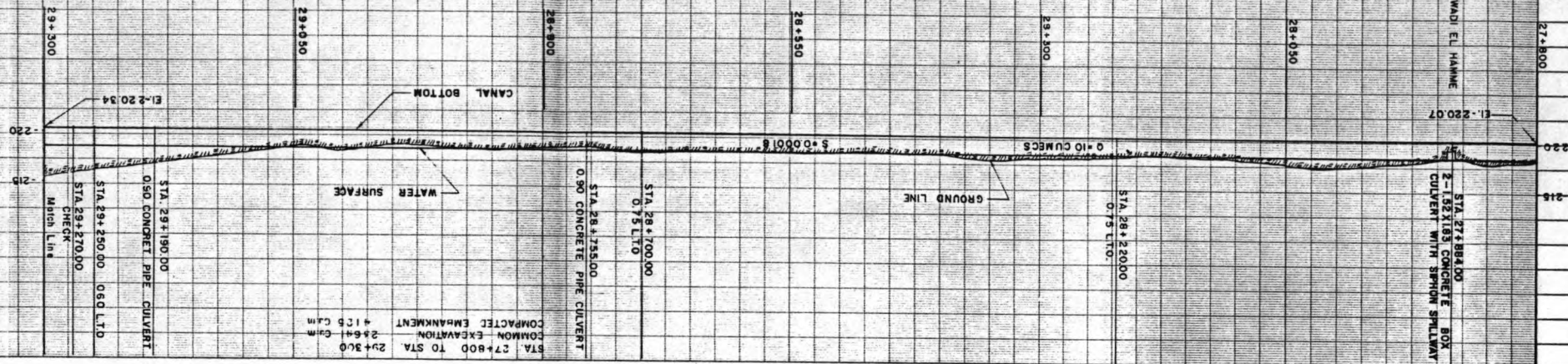
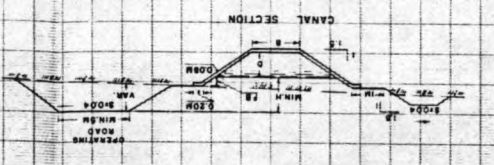
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 26+050 TO Sta. 27+800

APPROVED: [Redacted Signature]

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.
 AMMAN, JORDAN
 DATE: 1-9-1958
 DWG. NO. Sheet of
 EGC/26

SECTION	Q	A	V	D	B	R	F	H	S	N	
CANAL	10	9.96	100	177	297	100	030	083	000	018	004

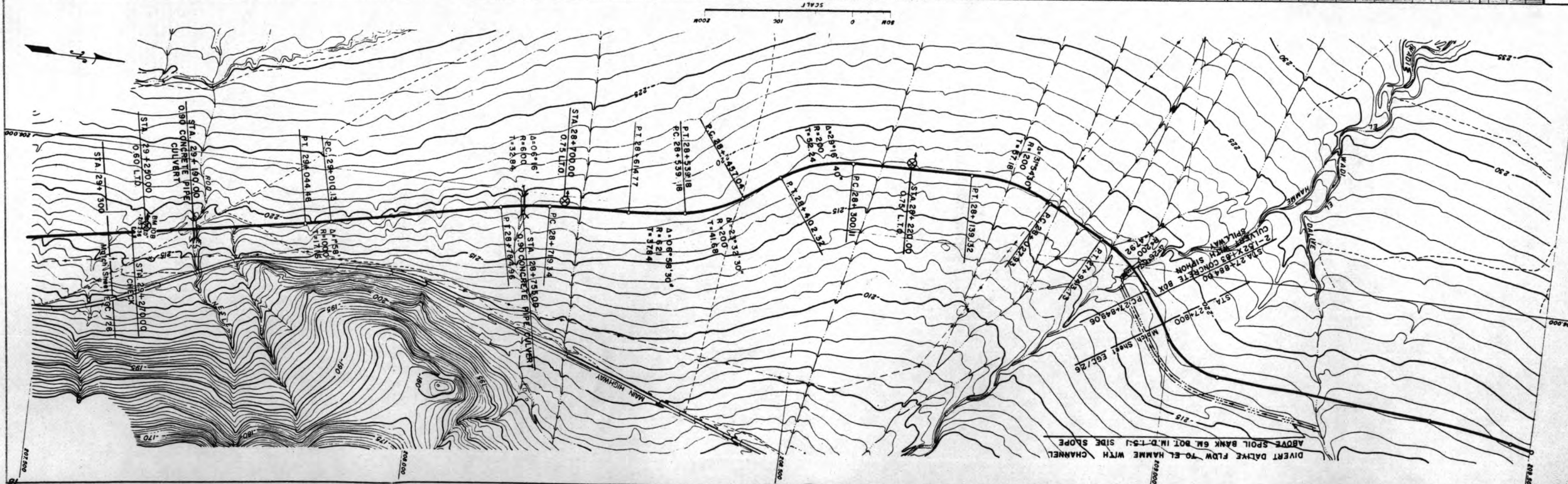
HYDRAULIC PROPERTIES
 [Redacted]



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 STA 27+800 TO STA 29+300

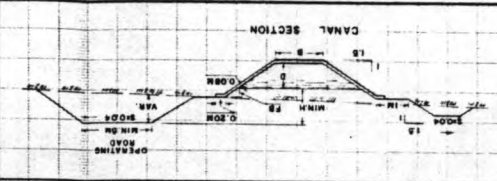
APPROVED
 AMMAN, JORDAN
 DATE: 1-5-1958
 HARZA ENGINEERING CO.
 MICHAEL BAKER, JR., INC. &
 Prepared under the supervision of

DWG. NO. Sheet of EGC/27



HYDRAULIC PROPERTIES										
SECTION	Q	V	D	B	R	F	H	S	N	
CANAL	10	9.6	100	177	297	100	0.30	0.83	0.00018	0.14

Sub	By Date	Chk Date
Sub		
Dtwn.		
Dat.		
Surf.		

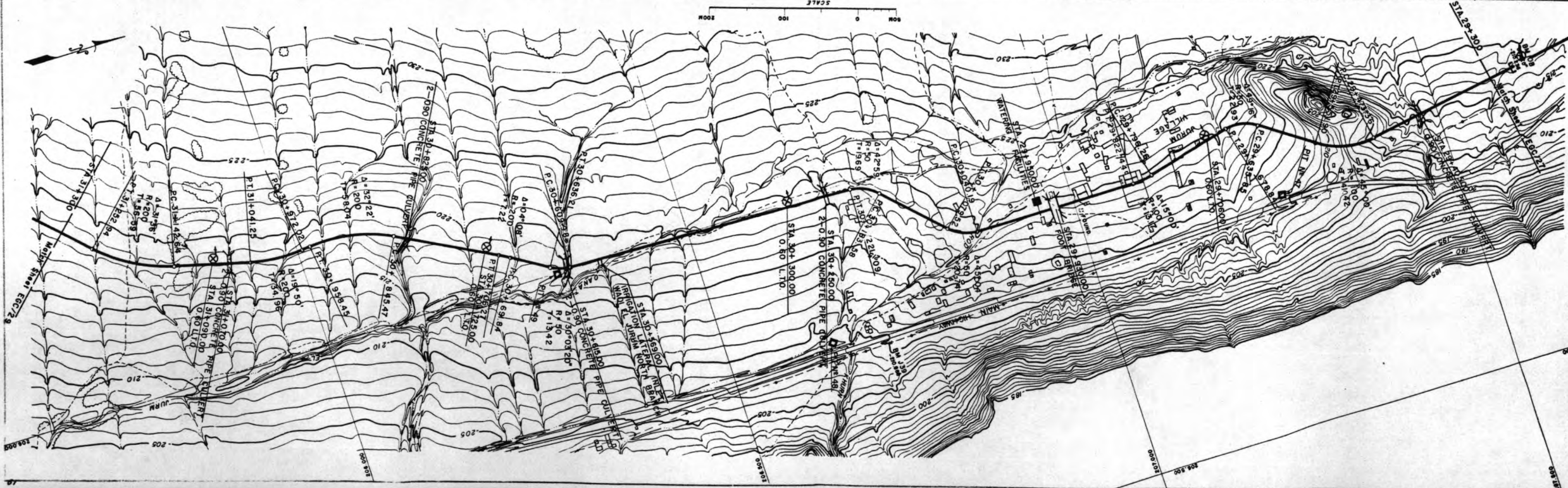
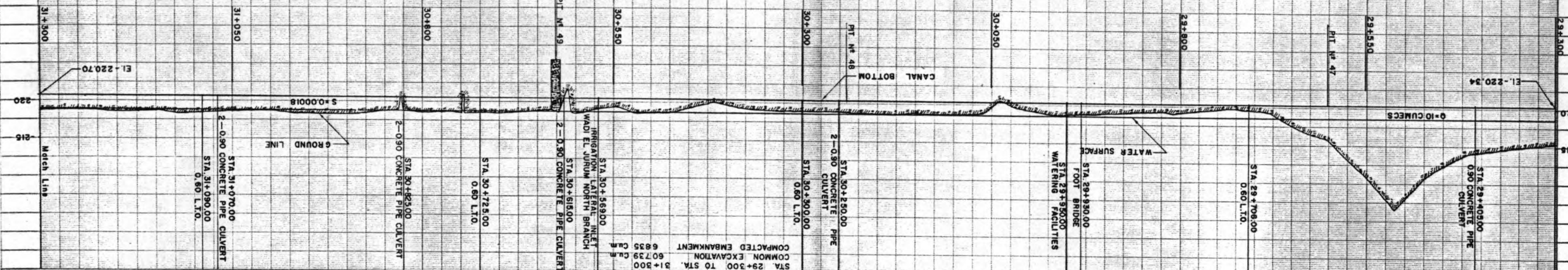


HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME
EAST GHOR MAIN CANAL
PLAN AND PROFILE
 Sta. 29+300 TO Sta. 31+300

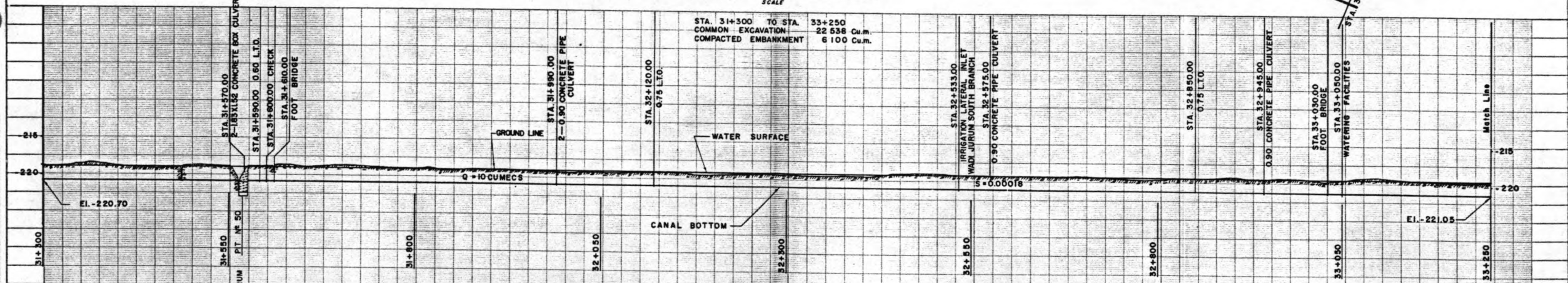
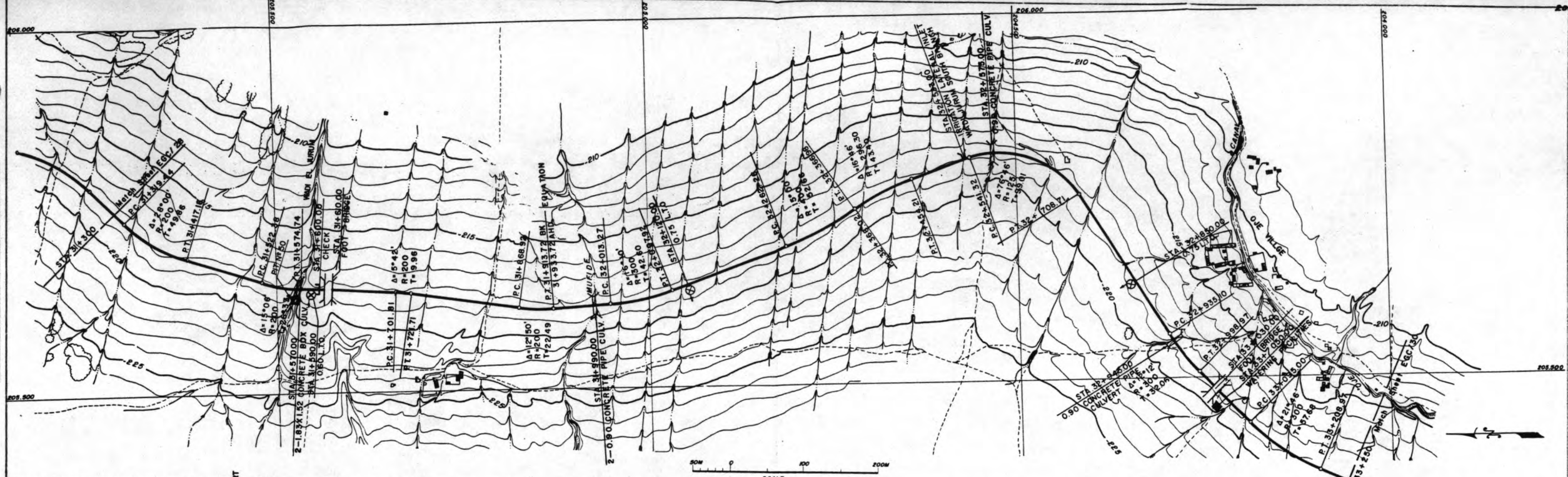
APPROVED: [Redacted]

AMMAN, JORDAN
 DATE: 1-9-1958
 EGC/28
 DWG. NO. Sheet of

Prepared under the supervision of
 MICHAEL BAKER, JR., INC.
 HARZA ENGINEERING CO.

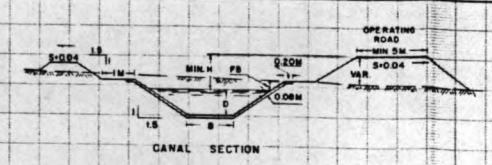


PLAN
 DATE: _____
 BY: _____
 CHECKED: _____
 APPROVED: _____
 NOTE: BOOK ALTIMETER CHECKED
 P.T. OF W.P. CHECKED



By	Date	Chkd	Date
Surf.			
Dsn.			
Drws.			
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	F	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.300	0.83	0.00018	0.014



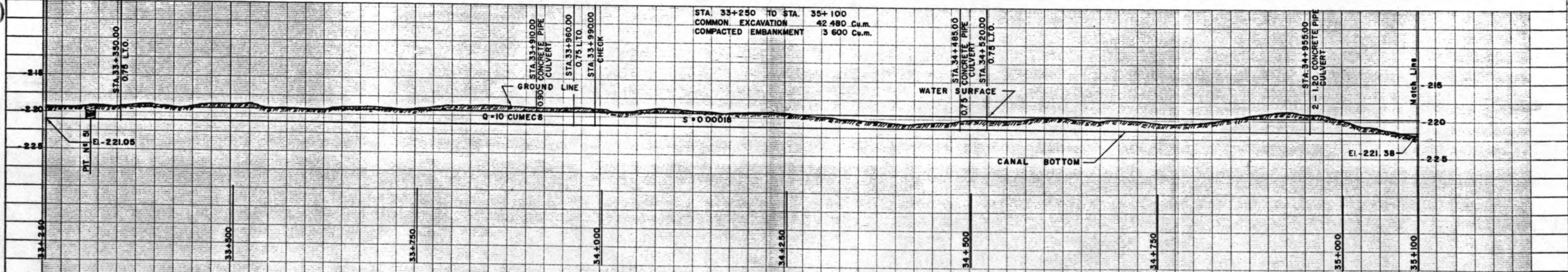
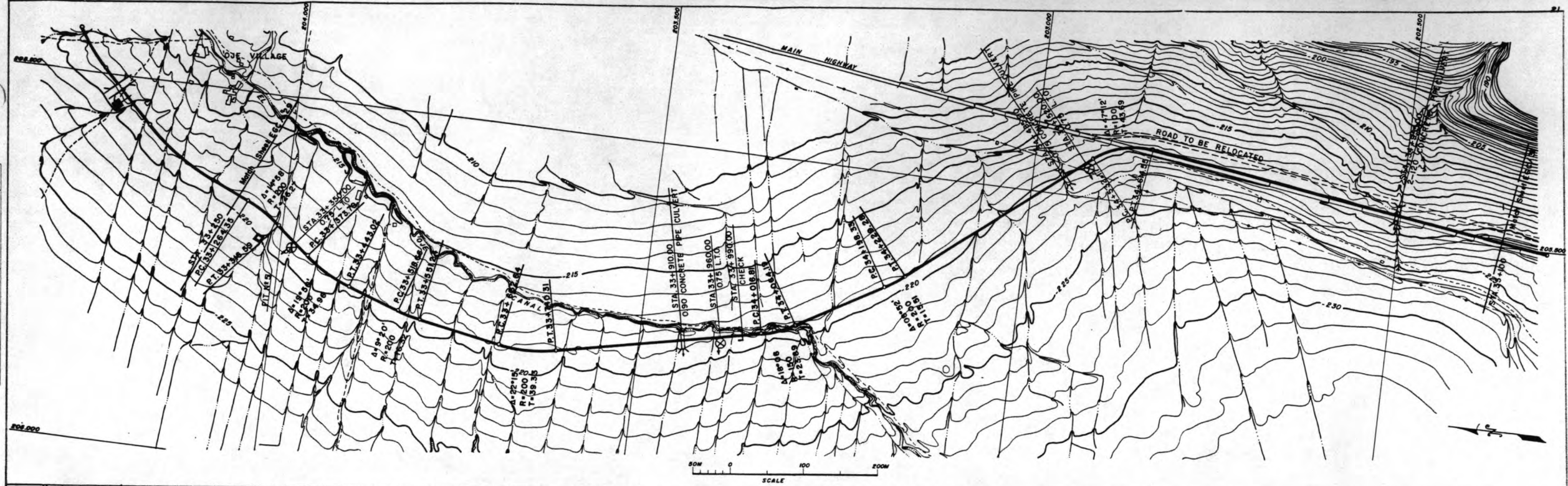
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 31+300 TO Sta. 33+250

APPROVED: _____
 AMMAN, JORDAN DATE: 1-9-1958
 DWG. NO. Sheet of EGC/29

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 HARZA ENGINEERING CO.

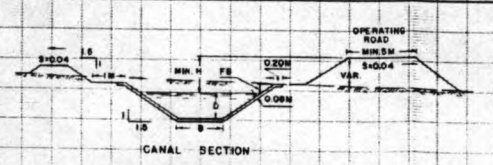
PLAN
 SURVEYED
 NOTE BOOK NO. []
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED

PROFILE
 SURVEYED
 NOTE BOOK NO. []
 GRADES CHECKED
 STRUCTURE NOTATIONS ON P.D.



By	Date	Chkd	Date
Surv.			
Des.			
Drwn.	1-9-58		11/1/58
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00016	0.014



STA. 33+250 TO STA. 35+100
 COMMON EXCAVATION 42 480 Cu.m.
 COMPACTED EMBANKMENT 3 600 Cu.m.

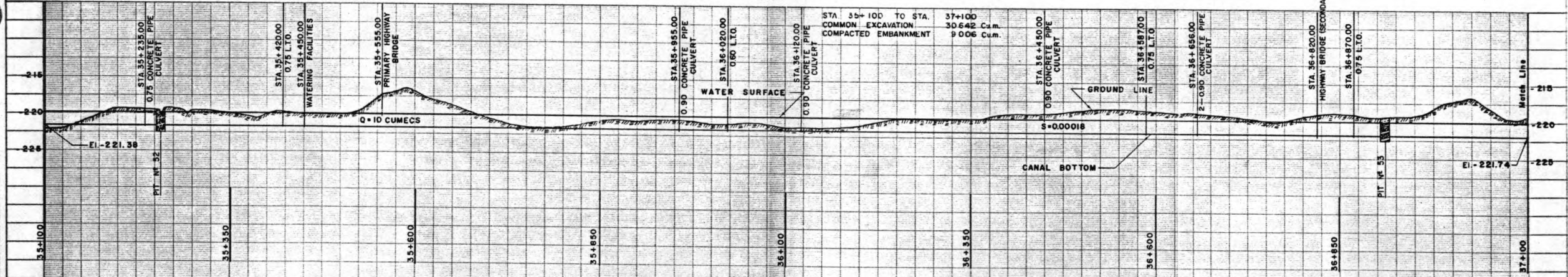
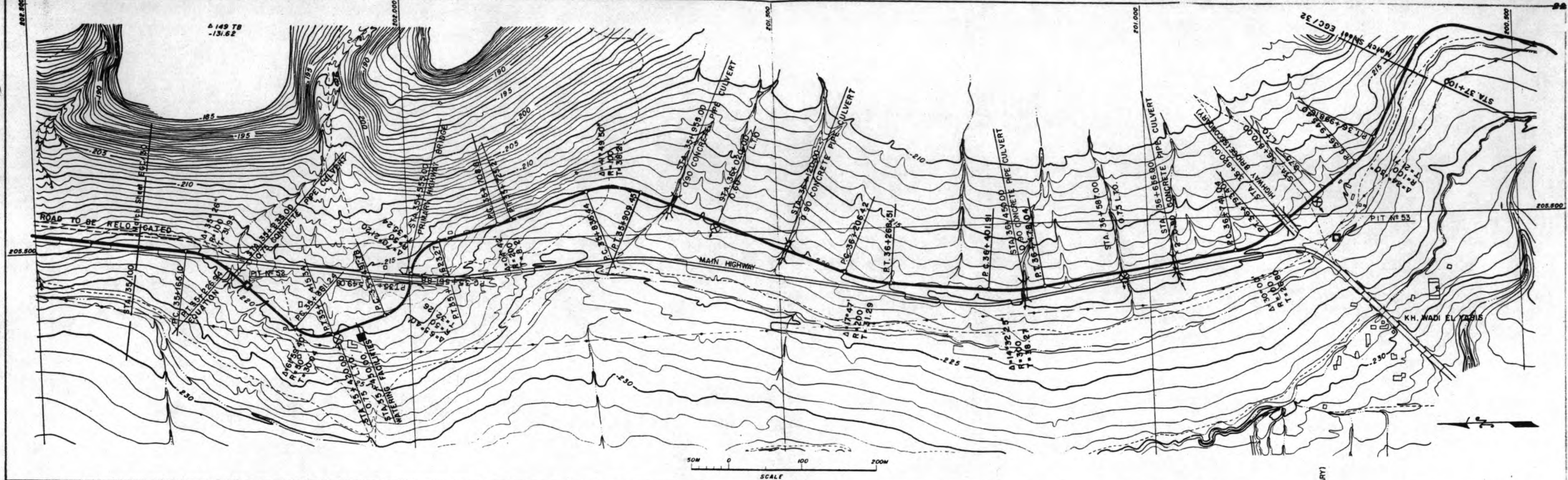
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 33+250 TO Sta. 35+100

APPROVED: [Signature]

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 HARZA ENGINEERING CO.
 AMMAN, JORDAN
 DATE: 1-9-1958
 DWG. NO. Sheet of
 EGC / 30

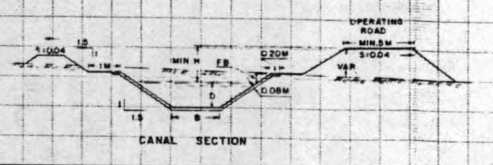
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 ALIGNMENT CHECKED: []
 NOTE BOOK NO. OF WKS CHECKED: []

PROFILE
 CHECKED: []
 PLOTTED: []
 DEPARTS CHECKED: []
 STRUCTURE POINTS CHECKED: []



By	Date	Chkd	Date
Sury			
Dsn			
Drwn			
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014

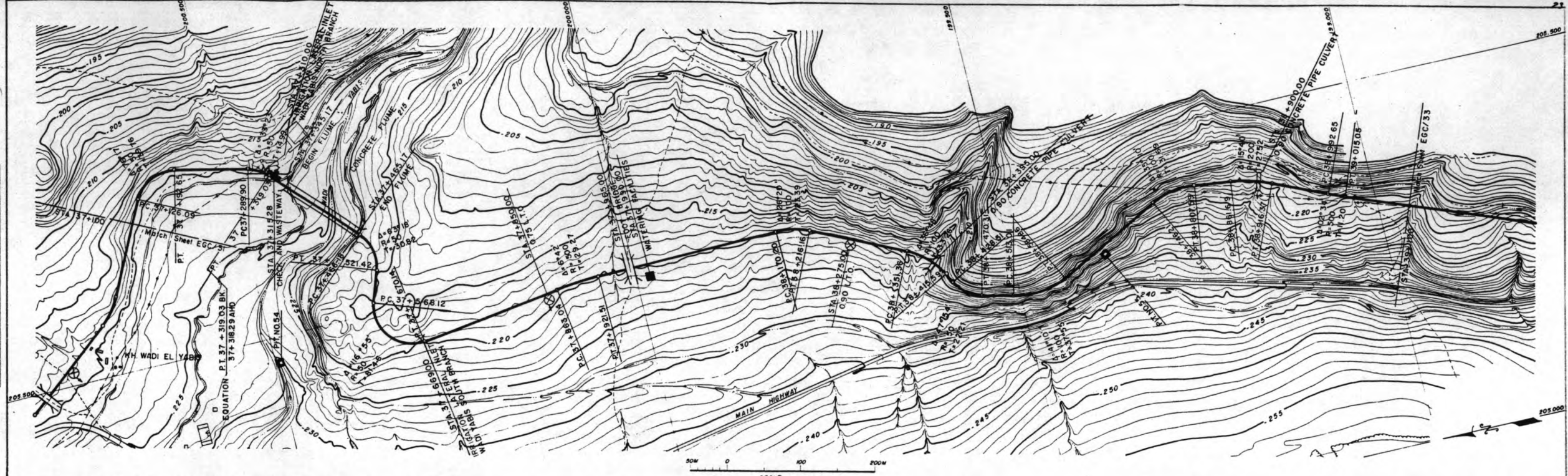


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 35+100 TO Sta. 37+100

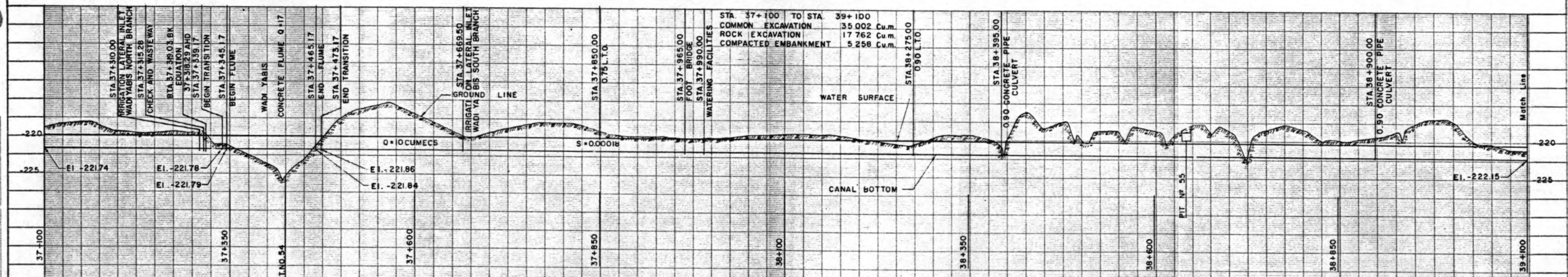
APPROVED: []
 AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. 5heet of EGC/31

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

PLAN
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 DATE: _____
 NOTE BOOK: _____
 ALIGNMENT CHECKED BY: _____
 ST. OF ANY CHECKED: _____
 NO. _____

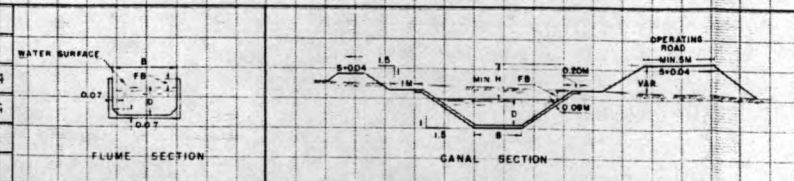


PROFILE
 SURVEYED BY: _____
 DATE: _____
 NOTE BOOK: _____
 SPACES CHECKED BY: _____
 ST. OF ANY CHECKED: _____
 NO. _____



By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.			
Sub.			

SECTION	HYDRAULIC PROPERTIES									
	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.63	0.00018	0.014
FLUME	17	10.54	1.60	2.30	4.66	1.16	0.50	0.00	0.04	0.014

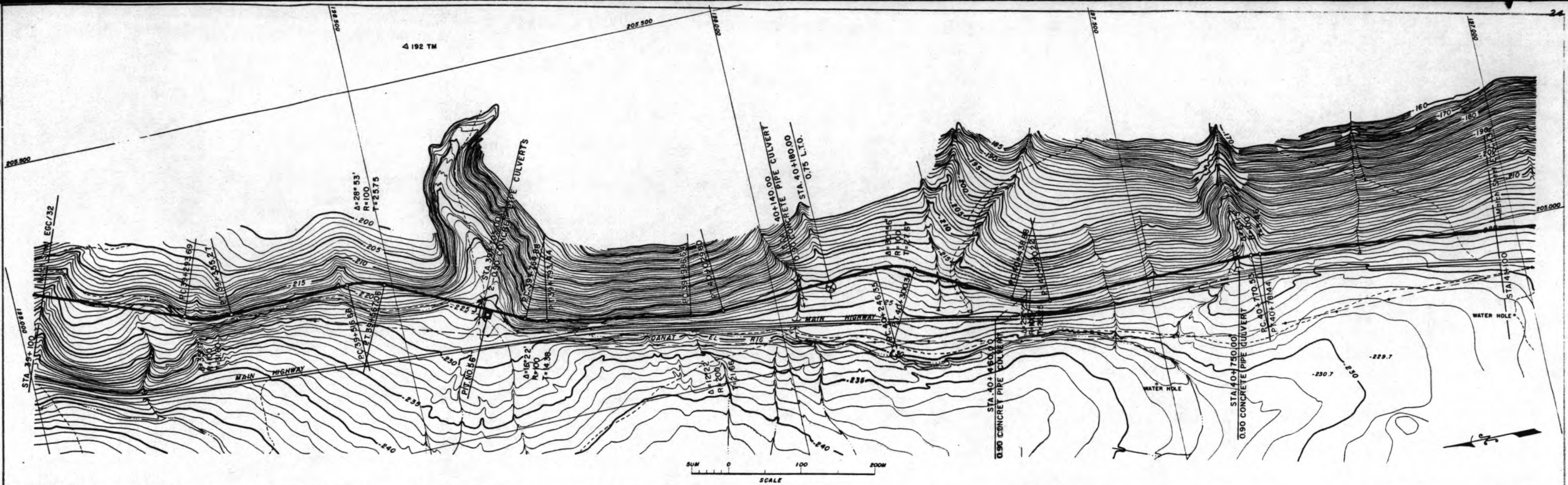


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 37+100 TO Sta. 39+100

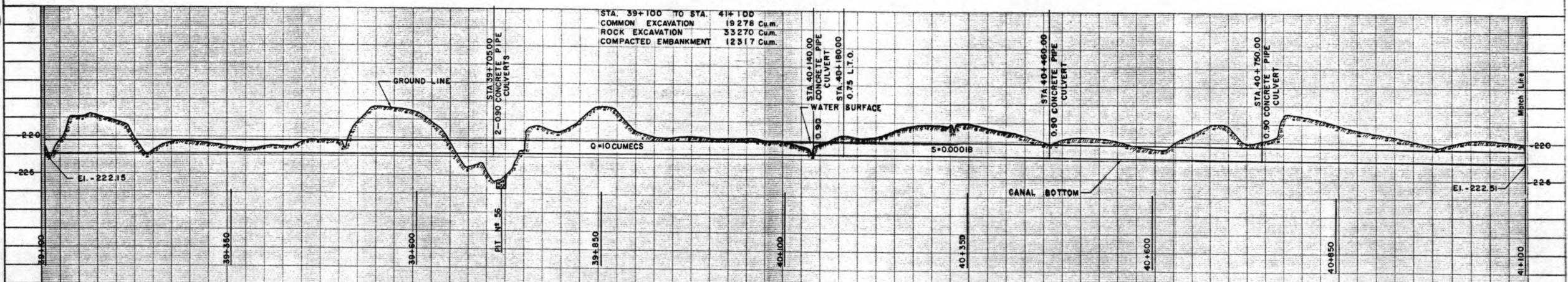
APPROVED: _____
 AMMAN, JORDAN DATE: 1-9-1953 DWG. NO. Sheet of EGC/32

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. B
 HARZA ENGINEERING CO.

PLAN
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 PLOTTED: []
 DATE: []
 NO. OF SHEETS: []
 NO. OF THIS SHEET: []



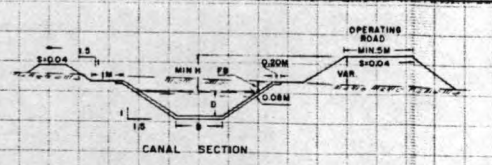
PROFILE
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 PLOTTED: []
 DATE: []
 NO. OF SHEETS: []
 NO. OF THIS SHEET: []



STA. 39+100 TO STA. 41+100
 COMMON EXCAVATION 19 278 Cu.m.
 ROCK EXCAVATION 33 270 Cu.m.
 COMPACTED EMBANKMENT 12 317 Cu.m.

By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.	1-9-53		11.8.53

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014



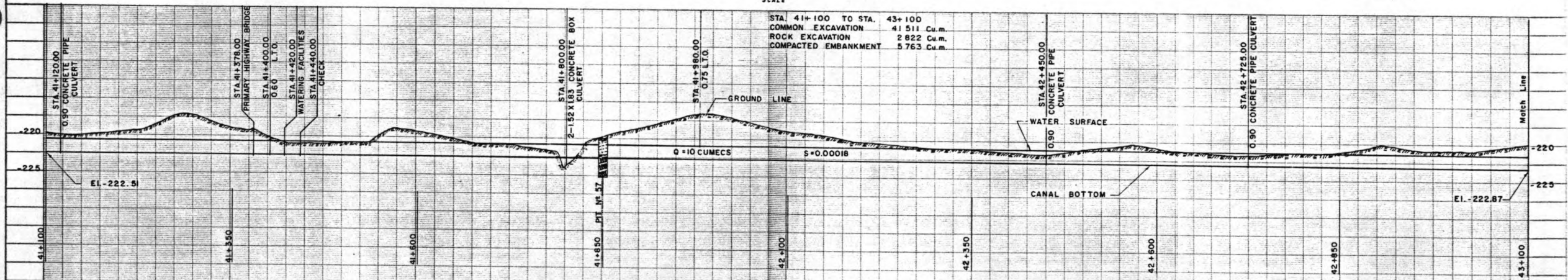
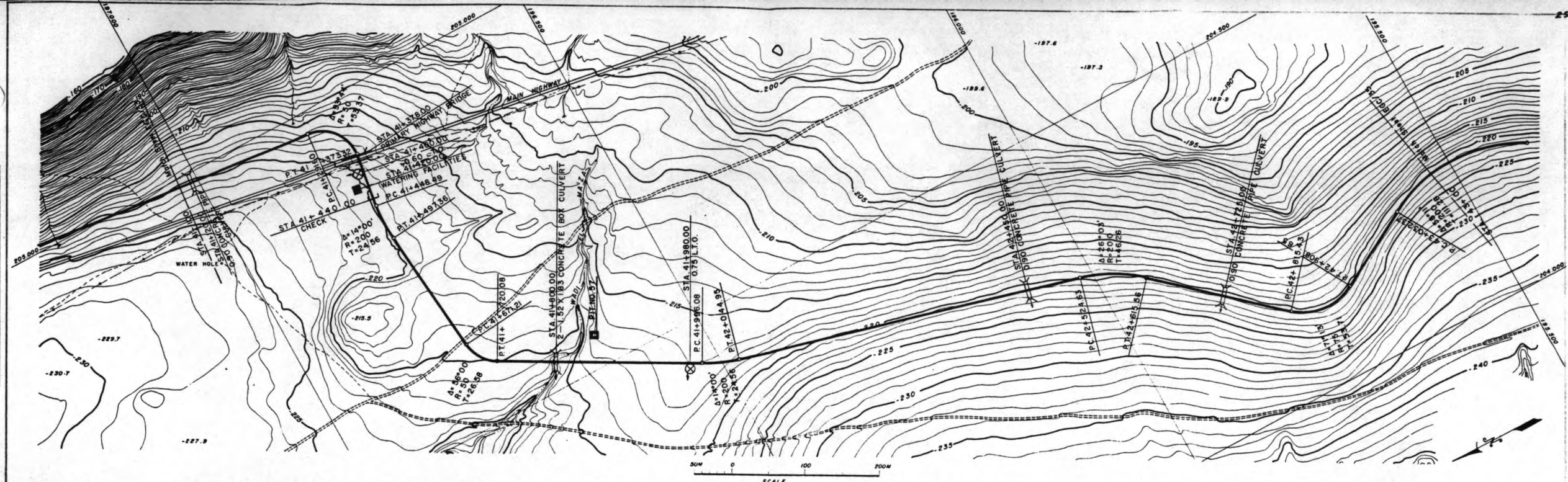
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 39+100 TO Sta. 41+100

APPROVED: []
 AMMAN, JORDAN DATE: 1-9-1953 DWG. NO. Sheet of EGC/33

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

PLAN
 DATE
 BY
 CHECKED
 NO. OF WAY CHECKED

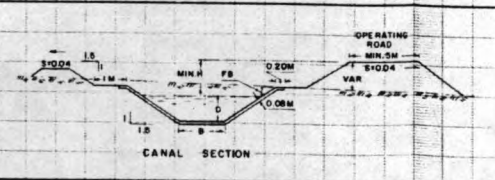
PROFILE
 DATE
 BY
 CHECKED
 NO. OF WAY CHECKED



STA. 41+100 TO STA. 43+100
 COMMON EXCAVATION 41 511 Cu.m
 ROCK EXCAVATION 2 822 Cu.m
 COMPACTED EMBANKMENT 5 763 Cu.m

By	Date	Chkd	Date
Surf.			
Dsn.			
Drwn.	10-28-53	11/18/53	11/8/53
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 41+100 TO Sta. 43+100

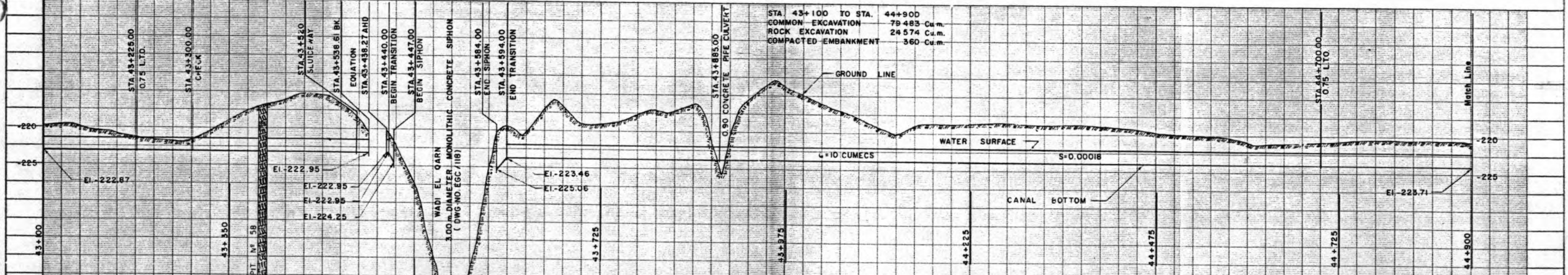
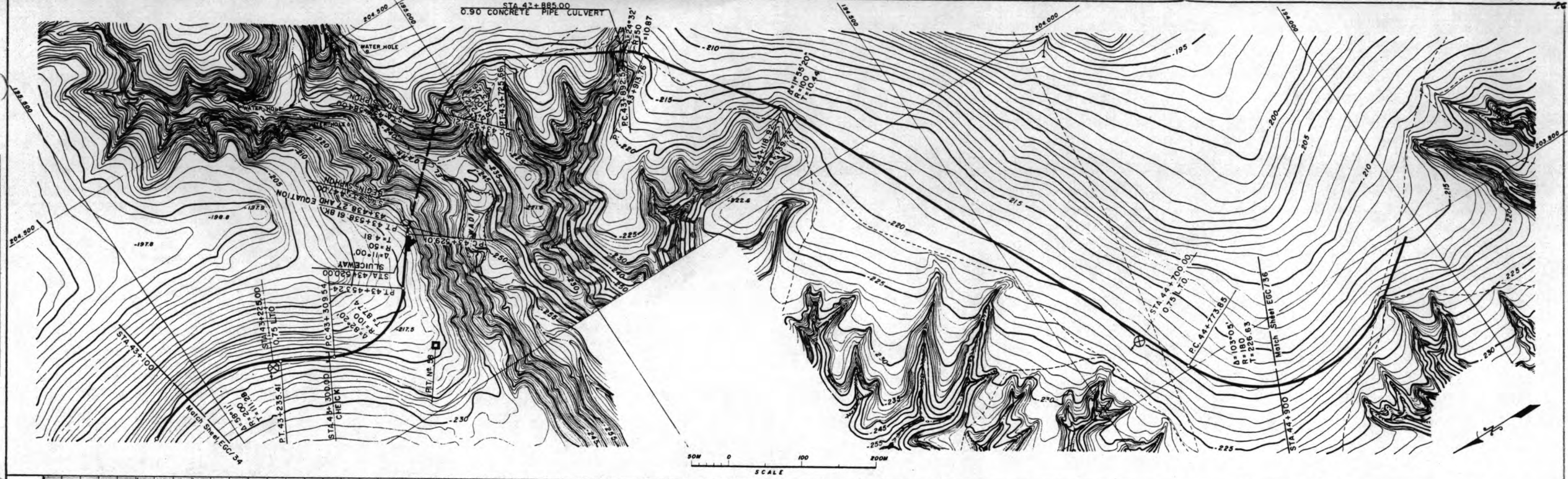
APPROVED: [Signature]

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN DATE 1-9-1953 DWG. NO. Sheet of EGC / 34

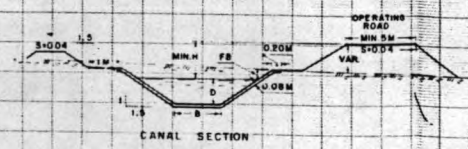
DATE: _____ BY: _____
 DRAWN: _____ CHECKED: _____
 DATE: _____ BY: _____
 DATE: _____ BY: _____

DATE: _____ BY: _____
 DRAWN: _____ CHECKED: _____
 DATE: _____ BY: _____
 DATE: _____ BY: _____



By	Date	Chkd	Date
Suky			
Dsn			
Drwn	27-7-58	31-8-58	
Sub			

SECTION	HYDRAULIC PROPERTIES									
	Q	A	V	D	B	R	F _b	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.0018	0.014
SIPHON	16	7.07	2.26	3.00	0.75					0.018

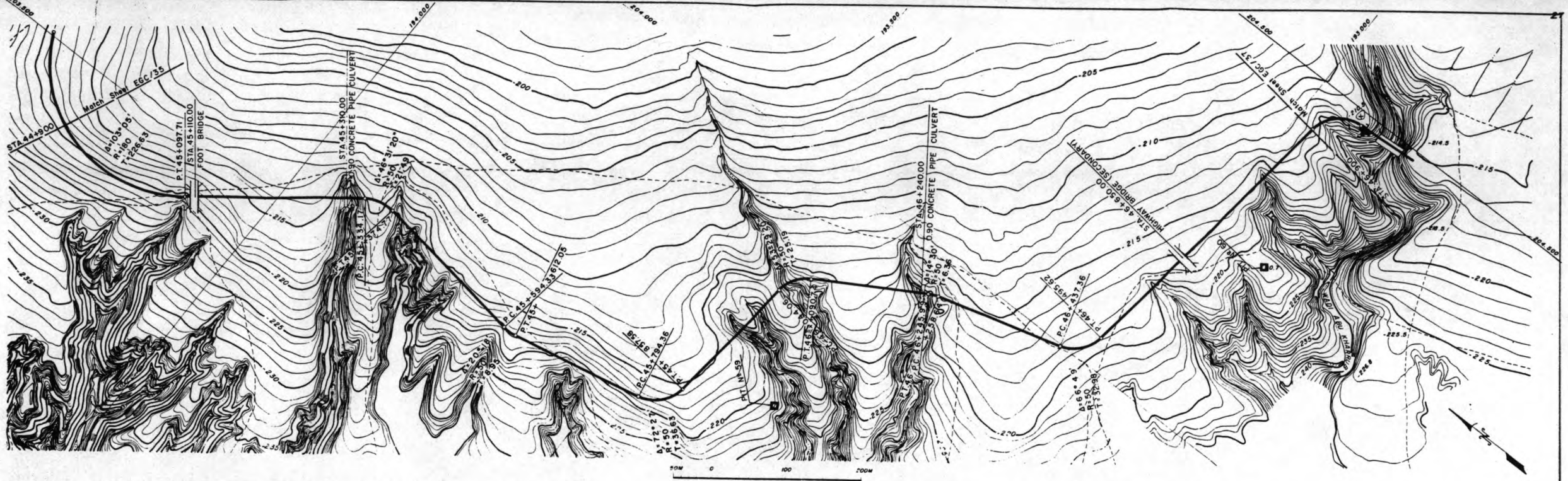


STA 43+100 TO STA. 44+900
 COMMON EXCAVATION 79 483 Cu.m.
 ROCK EXCAVATION 24 574 Cu.m.
 COMPACTED EMBANKMENT 360 Cu.m.

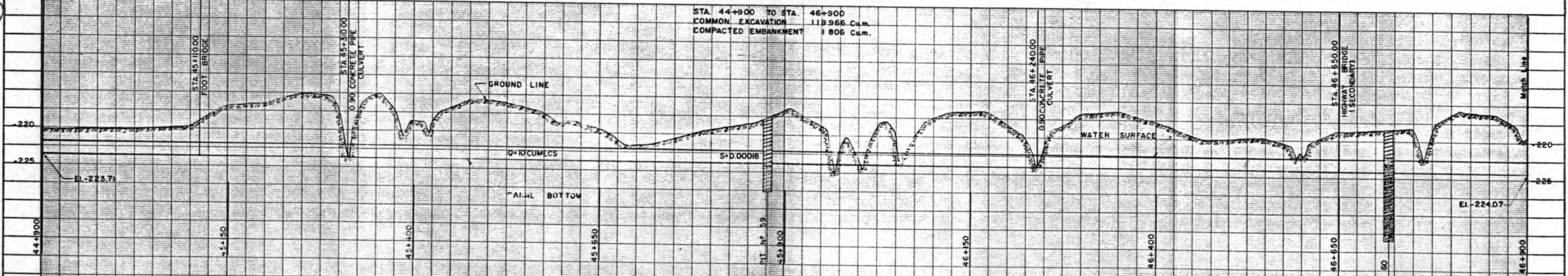
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 43+100 TO Sta. 44+900

APPROVED: _____

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO. AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC/35

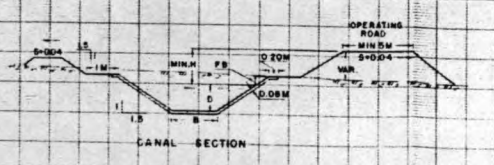


STA. 44+900 TO STA. 46+900
 COMMON EXCAVATION 119,966 C.m.
 COMPACTED EMBANKMENT 1,806 C.m.



By	Date	Chkd	Date
Surv.			
Des.			
Drwn.			
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	C	F	R	F	H	S	N
CANAL	10	99	100	1.77	2.97	100	0.30	0.80	0.0018	0.014



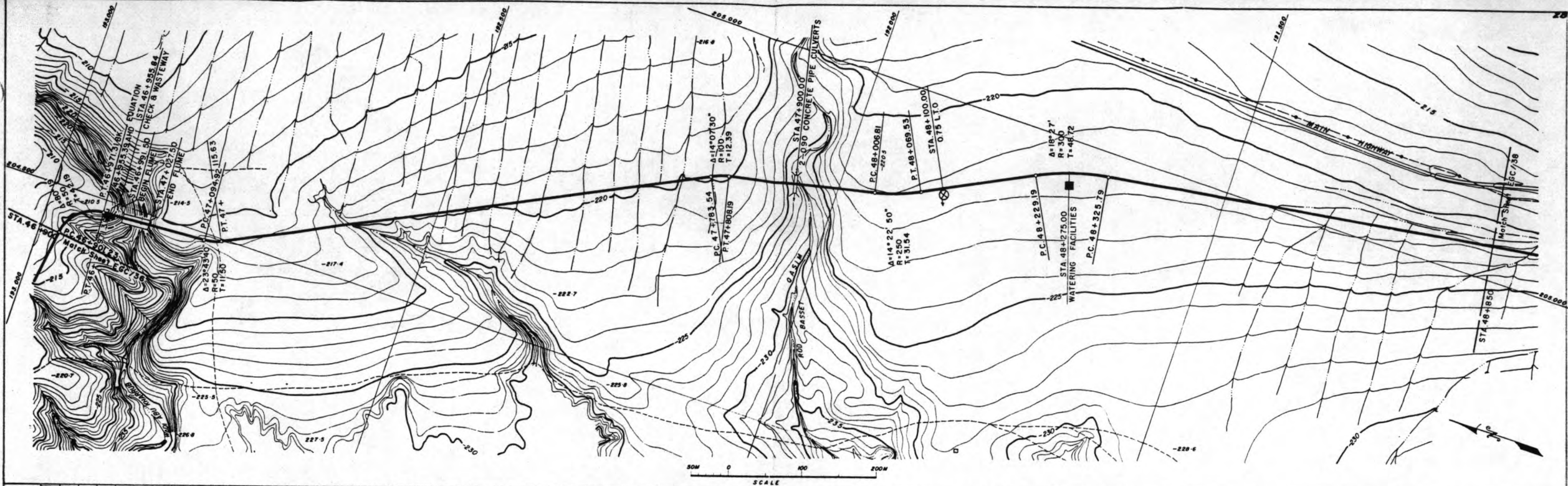
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 44+900 TO Sta. 46+900

APPROVED: [Redacted Signature]

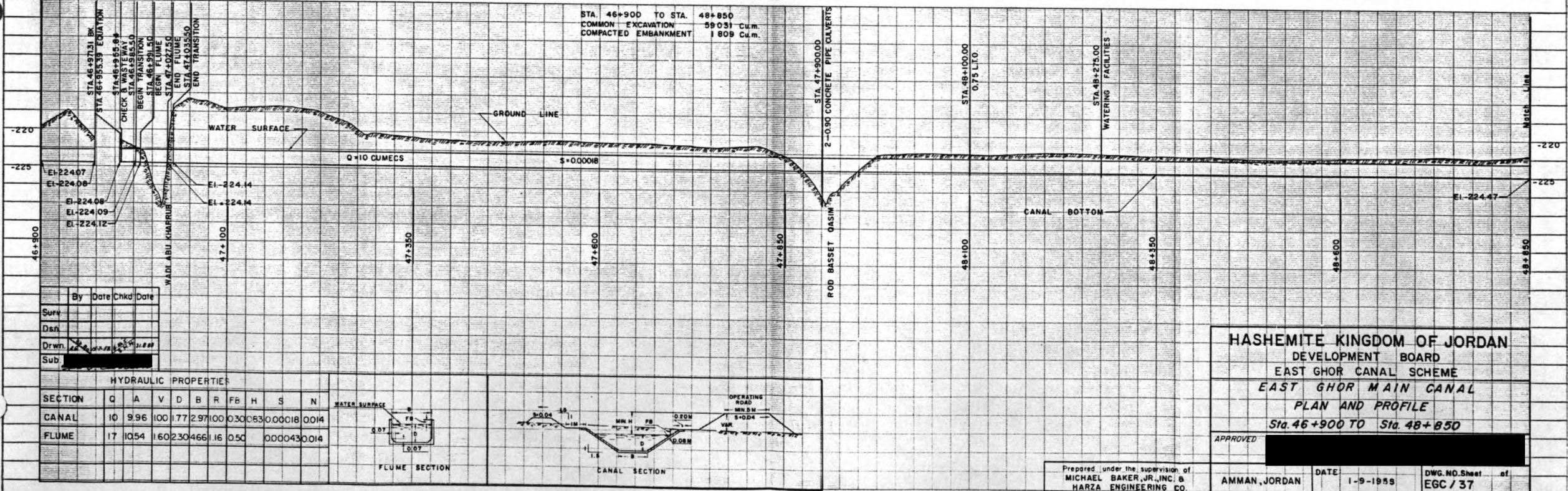
Prepared under the supervision of
 MICHAEL BAKER, JR., INC.'S
 HARZA ENGINEERING CO.

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. Sheet of EGC / 36

PLAN
 DRAWN BY
 CHECKED BY
 DATE
 NO.



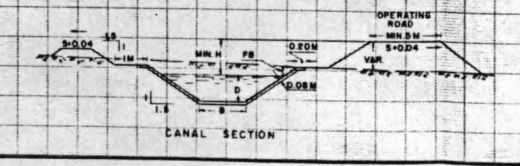
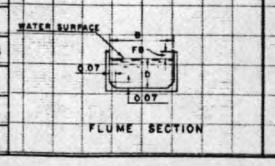
PROFILE
 DRAWN BY
 CHECKED BY
 DATE
 NO.



STA. 46+900 TO STA. 48+850
 COMMON EXCAVATION 59031 CUM.
 COMPACTED EMBANKMENT 1809 CUM.

By	Date	Chkd	Date
Surf			
Des			
Drwn			
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	100	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
FLUME	17	10.54	160	2.30	4.66	1.16	0.50	0.00043	0.014	

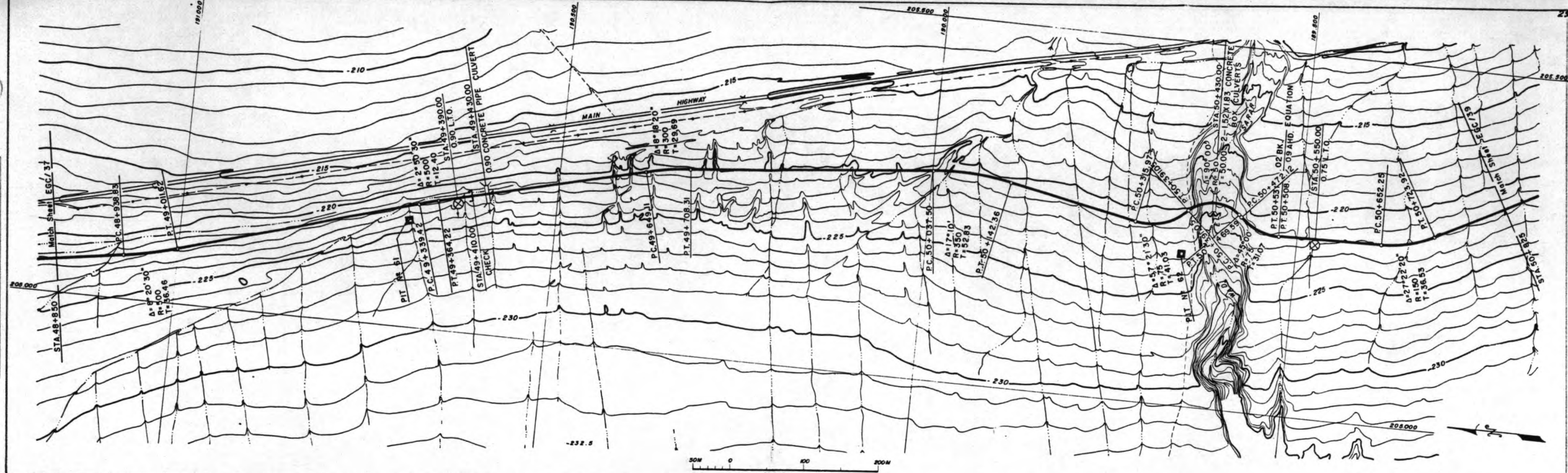


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 46+900 TO Sta. 48+850

APPROVED: [Signature]
 AMMAN, JORDAN DATE: 1-9-1959 DWG. NO. Sheet of EGC / 37

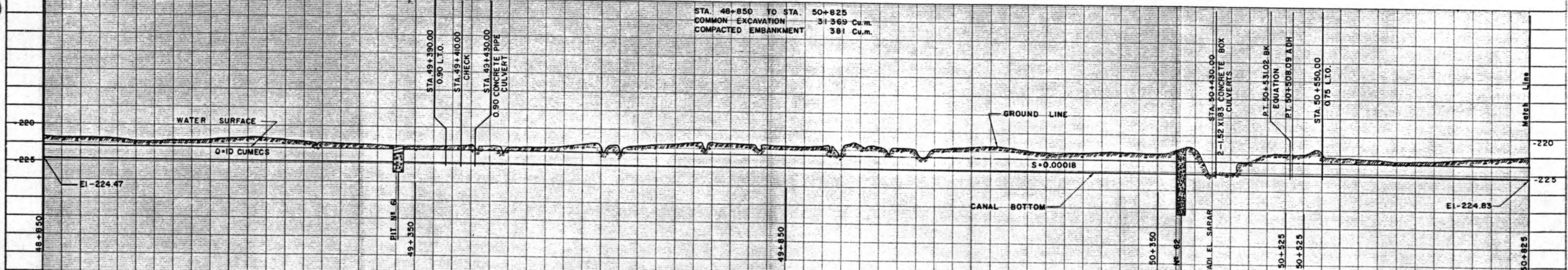
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

DATE: _____
 BY: _____
 SURVEYED: _____
 PLAN NO. _____
 NOTE BOOK NO. _____
 ALIGNMENT CHECKED: _____
 REF. OF WAY CHECKED: _____



SCALE
 0 100 200

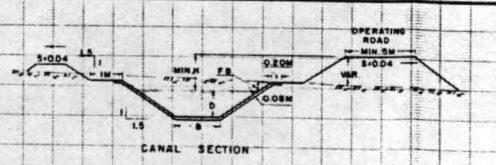
DATE: _____
 BY: _____
 CHECKED: _____
 PROFILE NO. _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATION: _____



STA. 48+850 TO STA. 50+825
 COMMON EXCAVATION 31369 Cu.m.
 COMPACTED EMBANKMENT 381 Cu.m.

By	Date	Chkd	Date
Surv			
Dsn			
Drwn			
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	H	F _b	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.57	0.00018	0.014



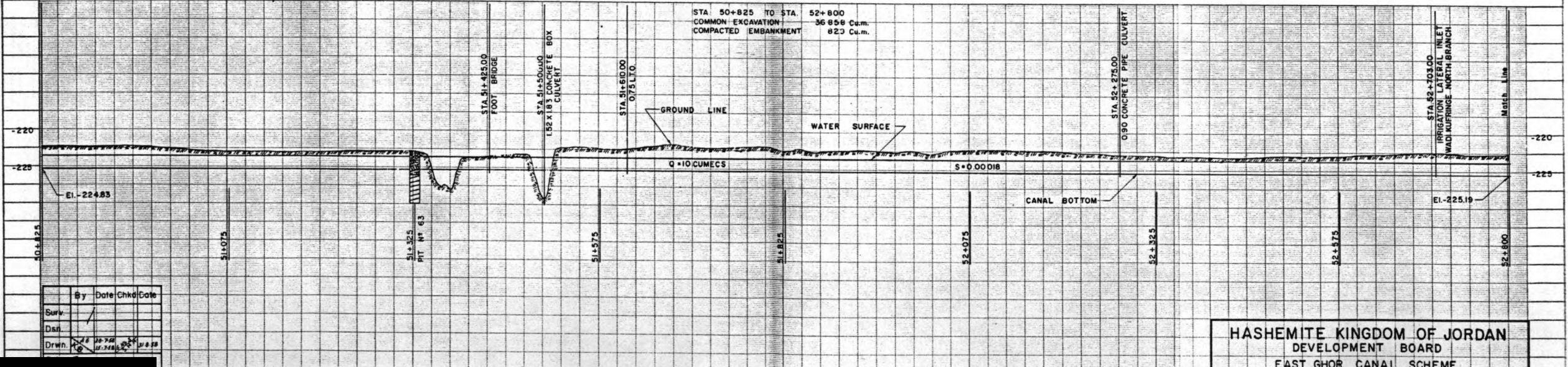
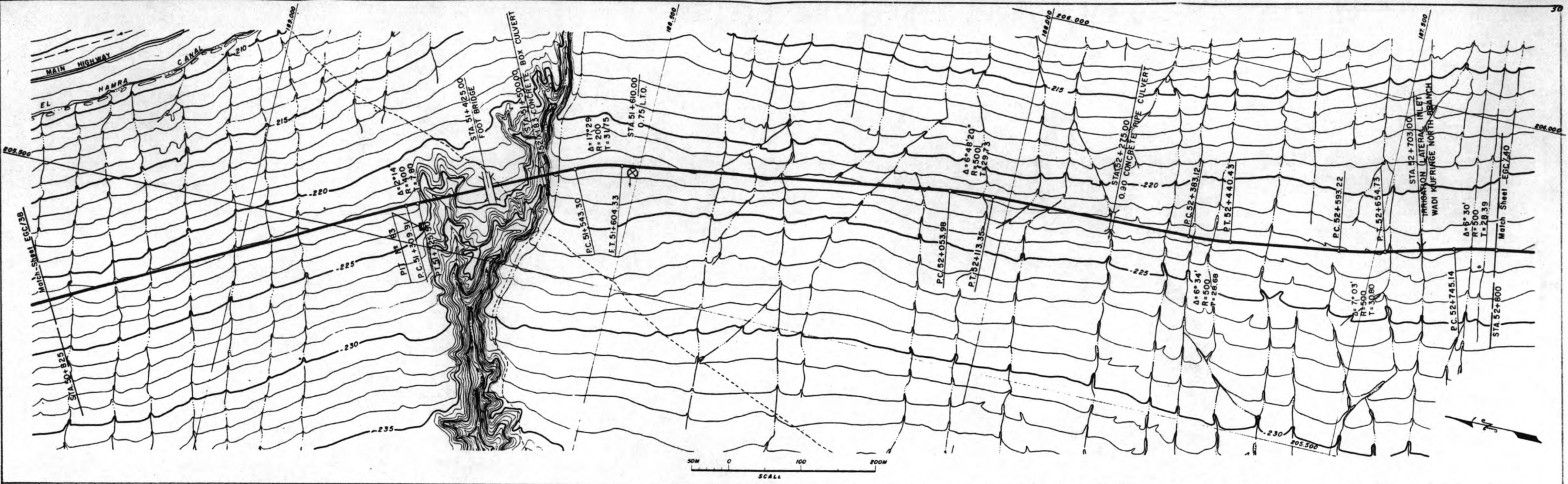
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 48+850 TO Sta. 50+825

APPROVED: _____

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 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.
 AMMAN, JORDAN
 DATE: 1-9-1958
 DWG. NO. Sheet of
 EGC / 38

SURVEYOR
 PLOTTED
 CHECKED
 PT. OF WAY CHECKED
 NO.

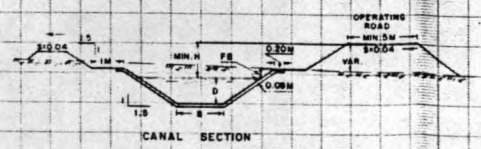
SURVEYOR
 PLOTTED
 CHECKED
 STRUCTURE INDICATES ON C.C.
 NO.



STA 50+825 TO STA. 52+800
 COMMON EXCAVATION 36858 Cu.m.
 COMPACTED EMBANKMENT 823 Cu.m.

By	Date Chkd	Date
Surv.		
Des.		
Drwn.		

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	F _B	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.5	0.00014	0.014



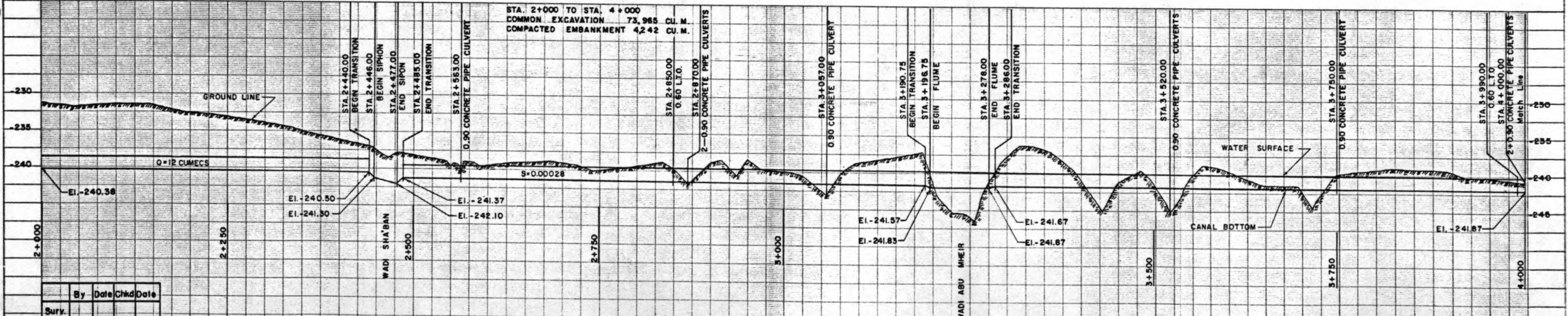
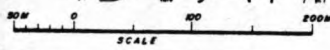
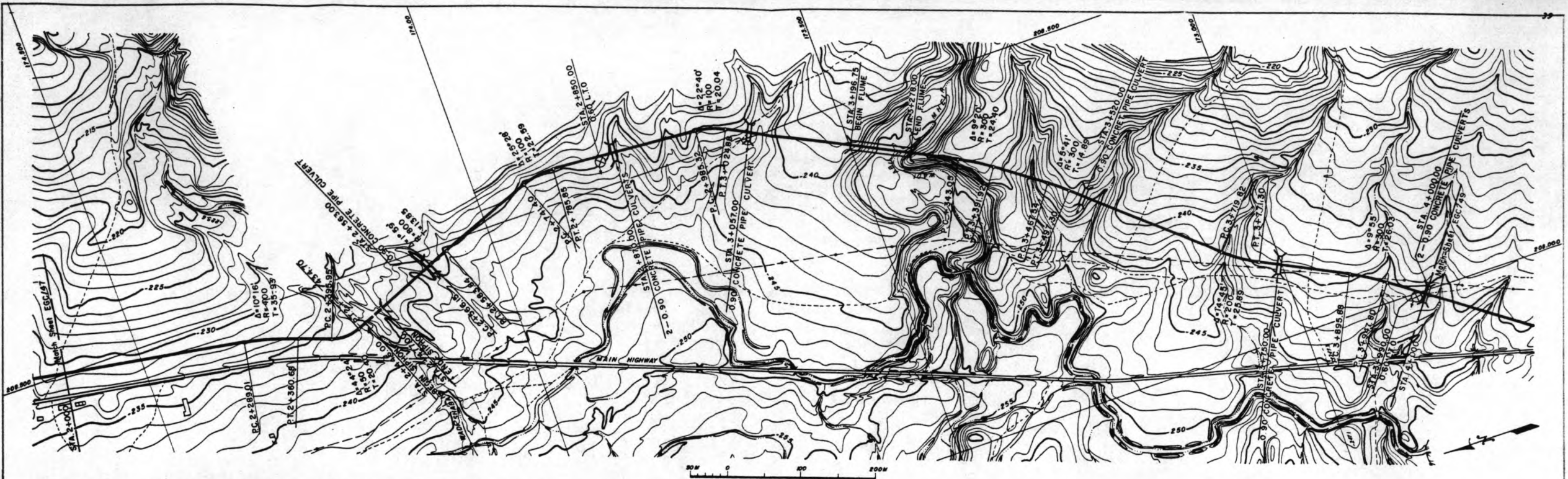
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 50+825 TO Sta. 52+800

APPROVED: [Redacted Signature]

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AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC/39

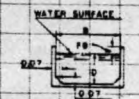
PLAN
 SURVEYED
 PLOTTED
 CHECKED
 NOTE BOOK NO. 11/1400
 DATE 11/1/58
 BY
 DATE
 CHECKED
 DATE



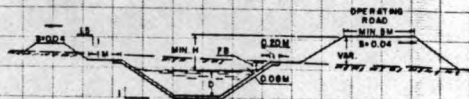
STA. 2+000 TO STA. 4+000
 COMMON EXCAVATION 73,985 CU. M.
 COMPACTED EMBANKMENT 42,42 CU. M.

By	Date	Chkd	Date
Surv.			
Des.			
Drwn.	11/1/58		
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	12	9.96	1.21	1.77	2.97	1.00	0.30	0.30	0.0028	0.014
SIPHON	12	2.78	4.32	1.88		0.47				0.016
FLUME	12	8.16	1.47	2.06	3.96	1.01				0.014



FLUME SECTION



CANAL SECTION

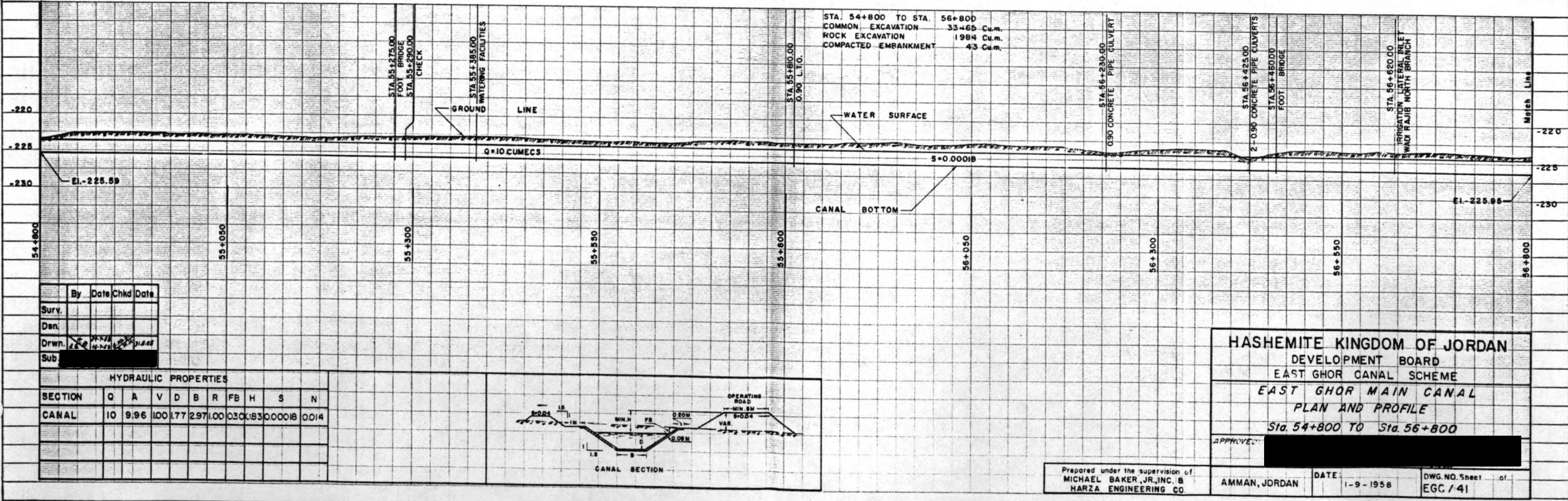
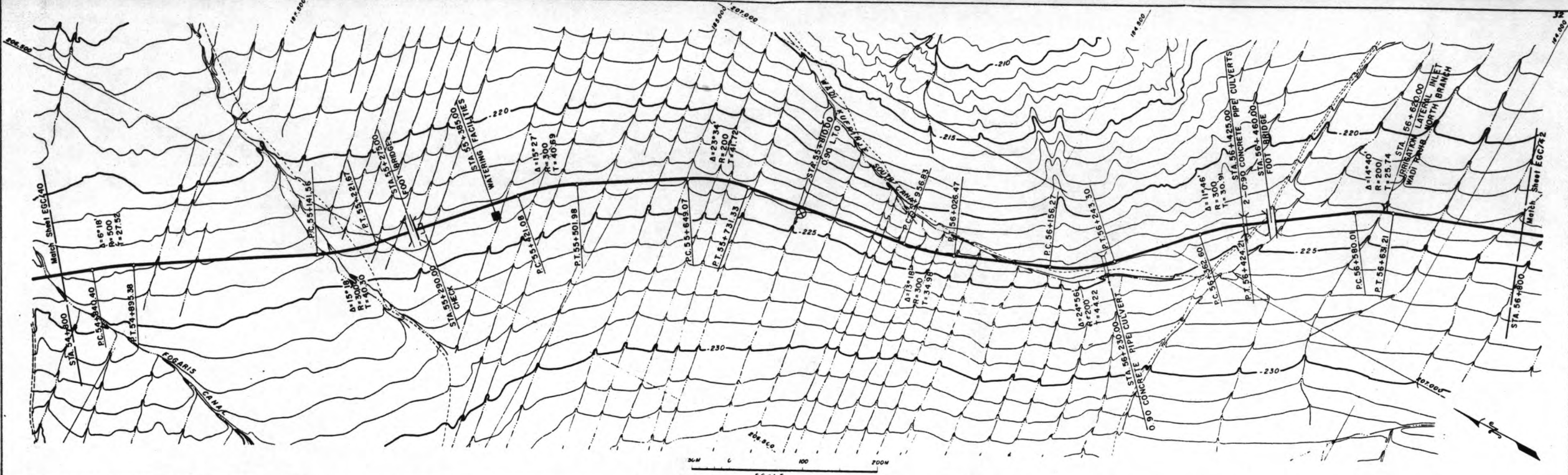
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL-SOUTH
 PLAN AND PROFILE
 Sta. 2+000 TO Sta. 4+000

APPROVED: [Signature]

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 HARZA ENGINEERING CO.

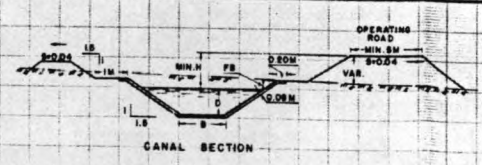
AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC/48

PLAN
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 1-9-1958



By	Date	Chkd	Date
Sury.			
Den.			
Drwn.	1-9-58		
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	100	1.77	2.97	1.00	0.30	0.83	0.00018	0.014



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 54+800 TO Sta. 56+800

APPROVED: [Signature]

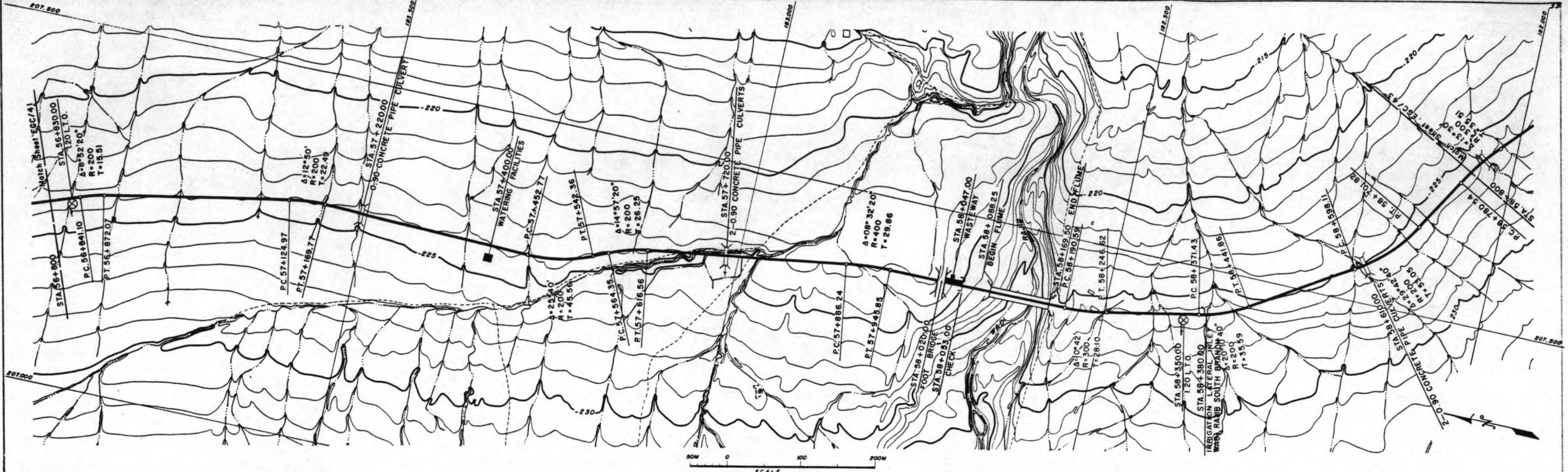
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN

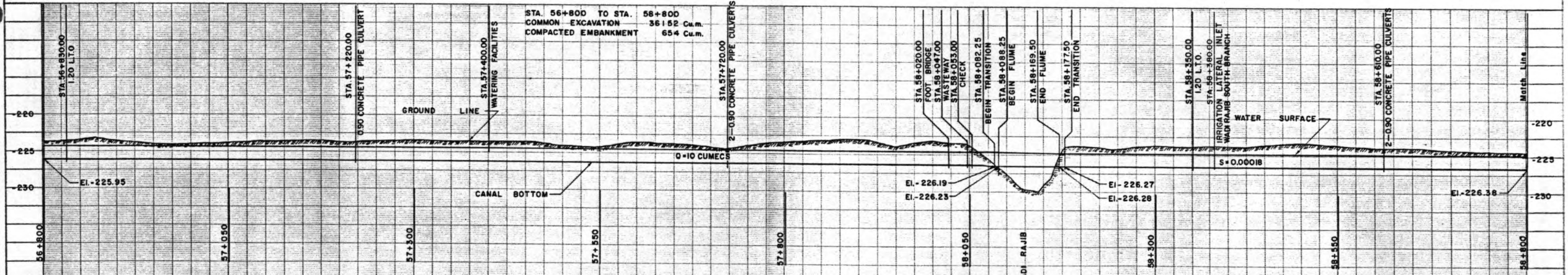
DATE: 1-9-1958

DWG. NO. Sheet of
 EGC / 41

PLAN
 SURVEYED
 PLOTTED
 NOTE BOOK
 NO. 100000
 CHECKED
 BY
 DATE

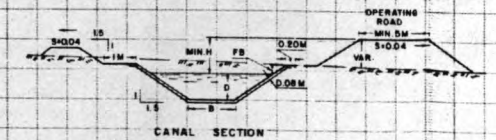
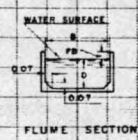


PROFILE
 SURVEYED
 PLOTTED
 NOTE BOOK
 NO. 100000
 CHECKED
 BY
 DATE



By	Date	Chkd	Date
Sury			
Dsn			
Drwn	17-10-58		21-8-58
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.93	0.00018	0.014
FLUME	13	8.04	1.60	2.06	3.96	1.01	0.40	0.00049	0.014	

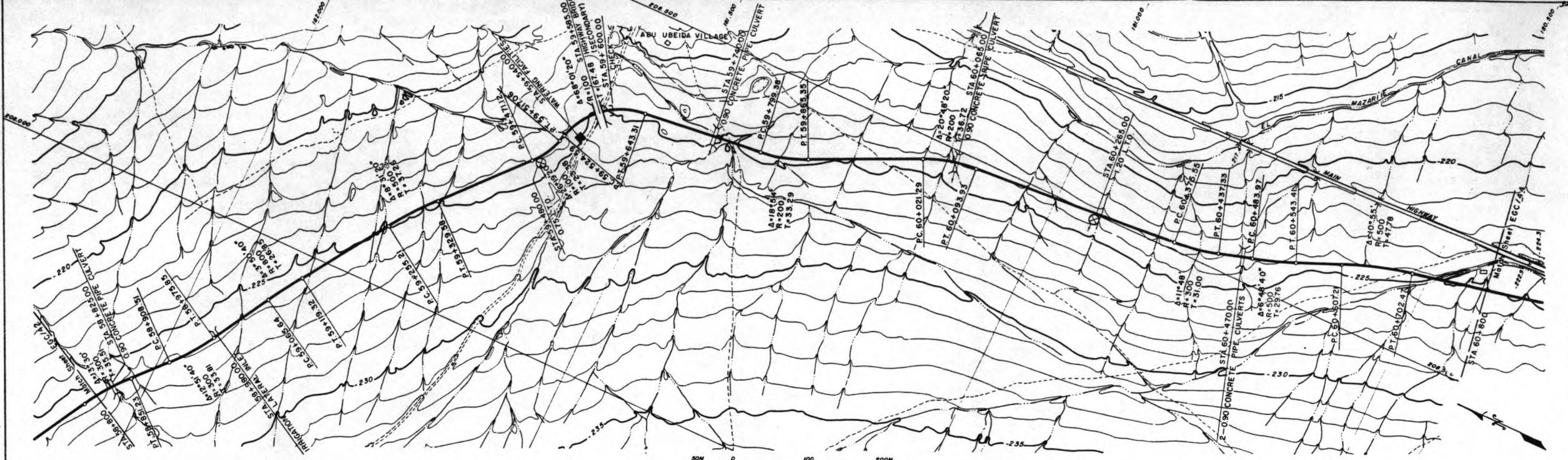


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 56+800 TO Sta. 58+800

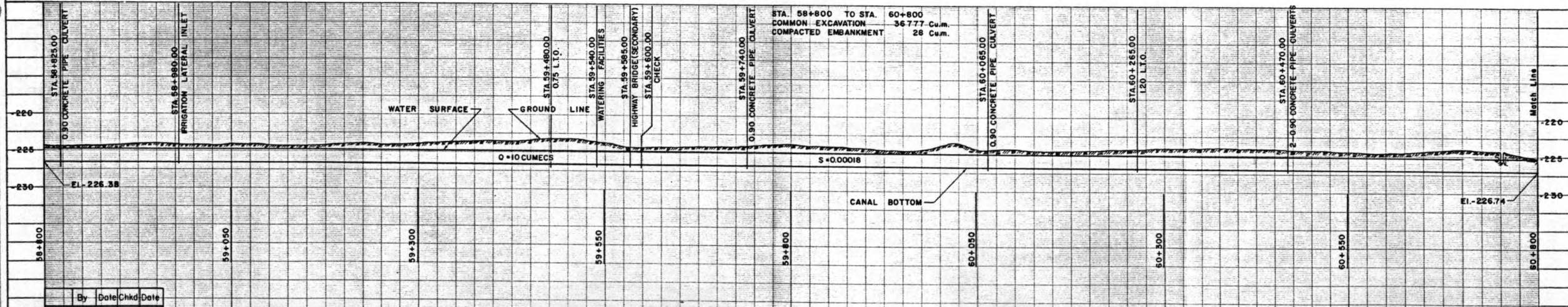
APPROVED: [Signature]

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 HARZA ENGINEERING CO.
 AMMAN, JORDAN
 DATE 1-9-1958
 DWG. NO. Sheet of
 EGC / 42

PLAN
 SURVEYED
 PLOTTED
 ALIGNMENT CHECKED
 NOTE BOOK
 NO. OF SHEETS

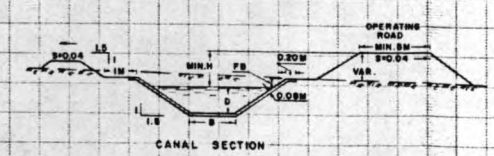


PROFILE
 SURVEYED
 GRADES CHECKED
 NOTE BOOK
 NO. OF SHEETS



By	Date	Chkd	Date
Surv			
Dsn			
Drwn	12/7/58	12/7/58	12/7/58
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	996	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014



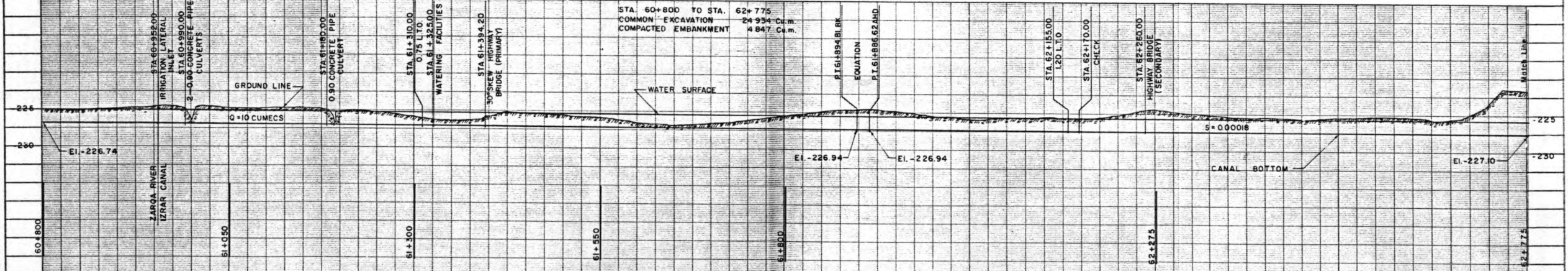
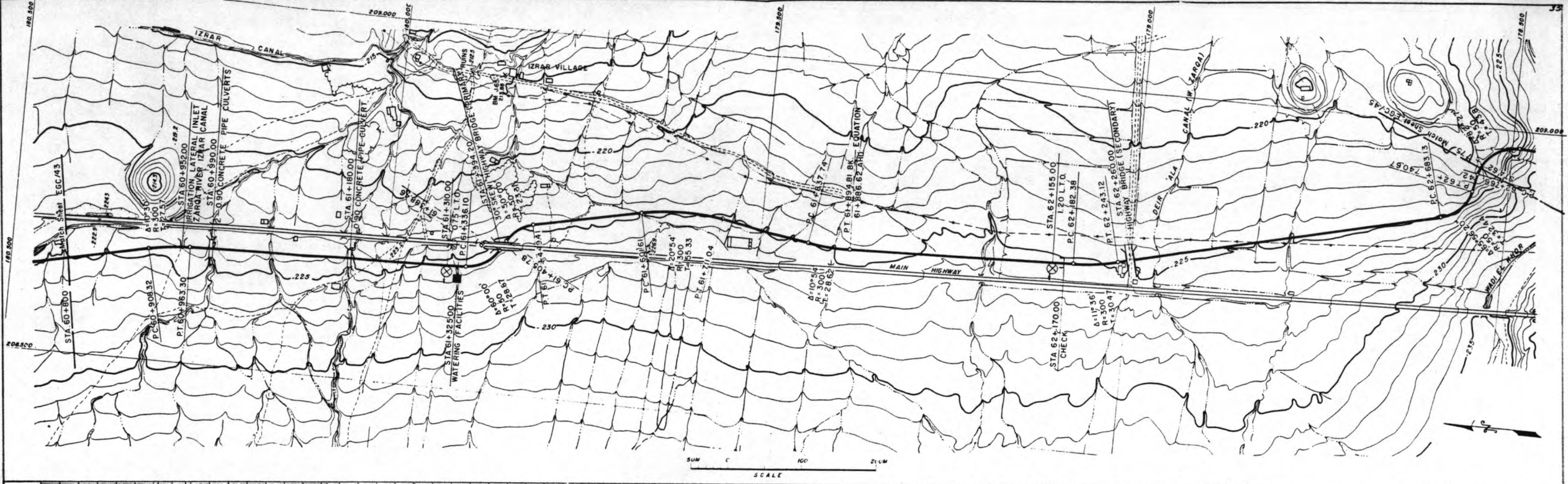
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 58+800 TO Sta. 60+800

APPROVED: [Signature]
 AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC / 43

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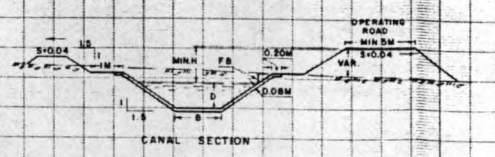
PLAN
 SURVEYED, PLOTTED, CHECKED, AND APPROVED BY:
 NOTE BOOK NO. OF ANY CHECKED

PROFILE
 SURVEYED, PLOTTED, CHECKED, AND APPROVED BY:
 NOTE BOOK NO. OF ANY CHECKED



By	Date	Chkd	Date
Surf.			
Dsn.			
Drwn.	10/20/58	5/12/59	
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.08	0.00018	0.014

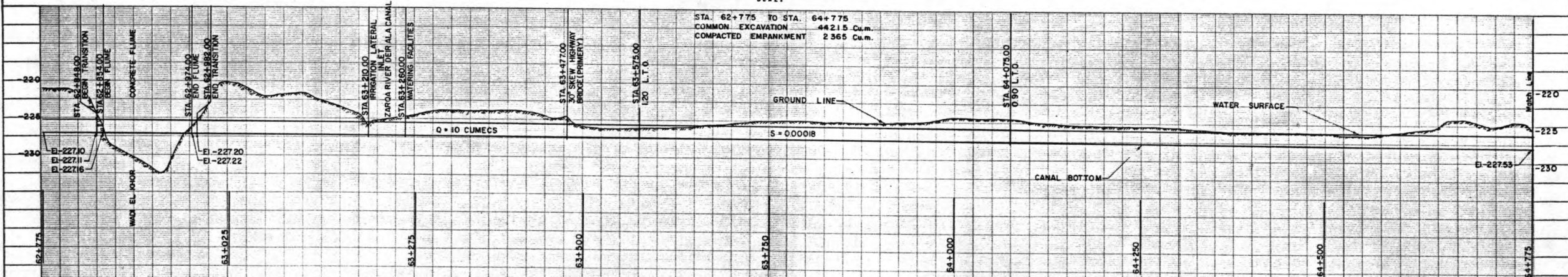
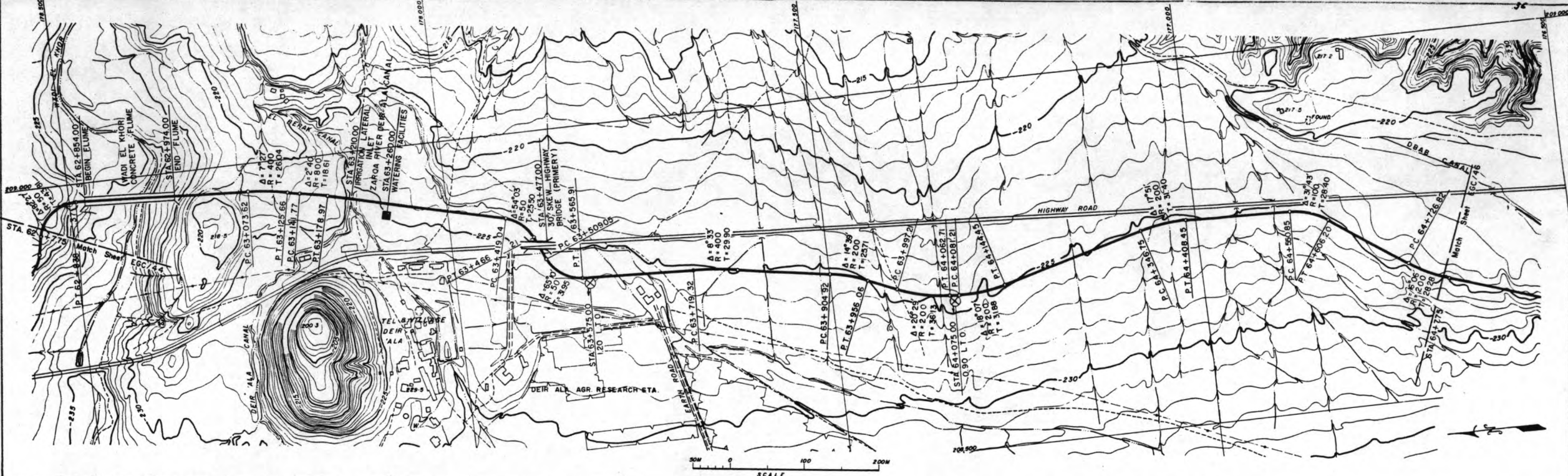


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 60+800 TO Sta. 62+775

APPROVED: [Signature]
 AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC/44

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 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

PLANNED
 PLOTTED
 CHECKED
 NOTE BOOK NO. OF NY CHECKED
 NO.

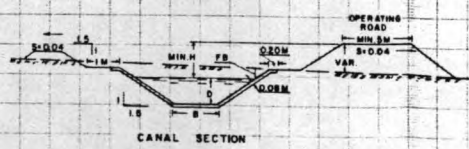
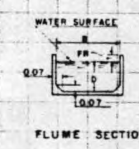


STA. 62+775 TO STA. 64+775
 COMMON EXCAVATION 44215 Cu.m.
 COMPACTED EMPANKMENT 2365 Cu.m.

PROFILE
 PLOTTED
 CHECKED
 NOTE BOOK NO. OF NY CHECKED
 NO.

By	Date	Chkd	Date
Sury			
Den			
Drwn			
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	996	100	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
FLUME	13	8.04	160	2.06	3.96	1.01	0.40	0.00049	0.014	



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 62+775 TO Sta. 64+775

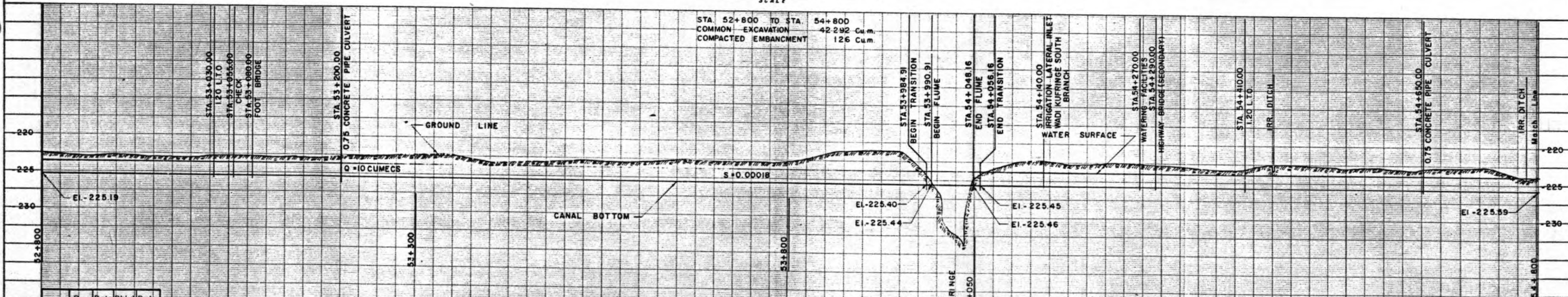
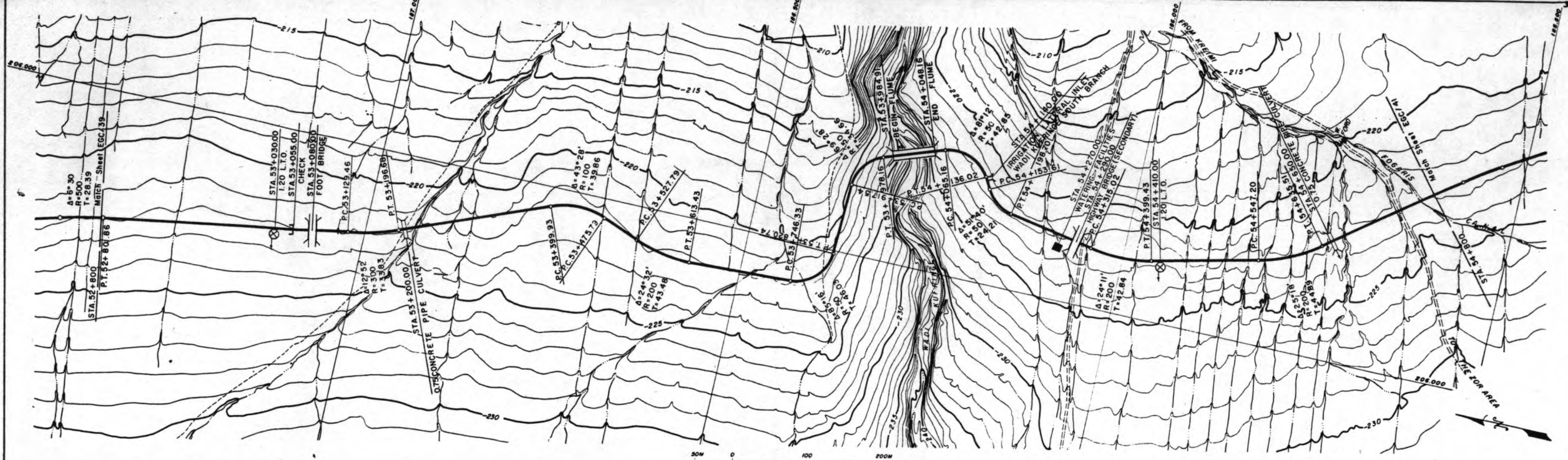
APPROVED: [Redacted Signature]

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 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN DATE: 1-9-1958

DWG. NO. Sheet of
 EGC/45

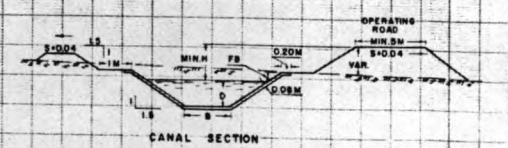
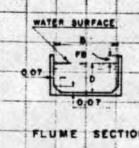
PLAN
 SURVEYED
 PLOTTED
 ALIGNED CHECKED
 NOTE BOOK NO. 1111
 DATE



STA 52+800 TO STA. 54+800
 COMMON EXCAVATION 42.292 Cu.m.
 COMPACTED EMBANKMENT 126 Cu.m.

By	Date	Chkd	Date
Sury			
Dsr			
Drwn	11-7-58		
Sub			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
FLUME	15	9.29	1.60	2.19	4.33	1.09	0.53	0.00045	0.014	



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 52+800 TO Sta. 54+800

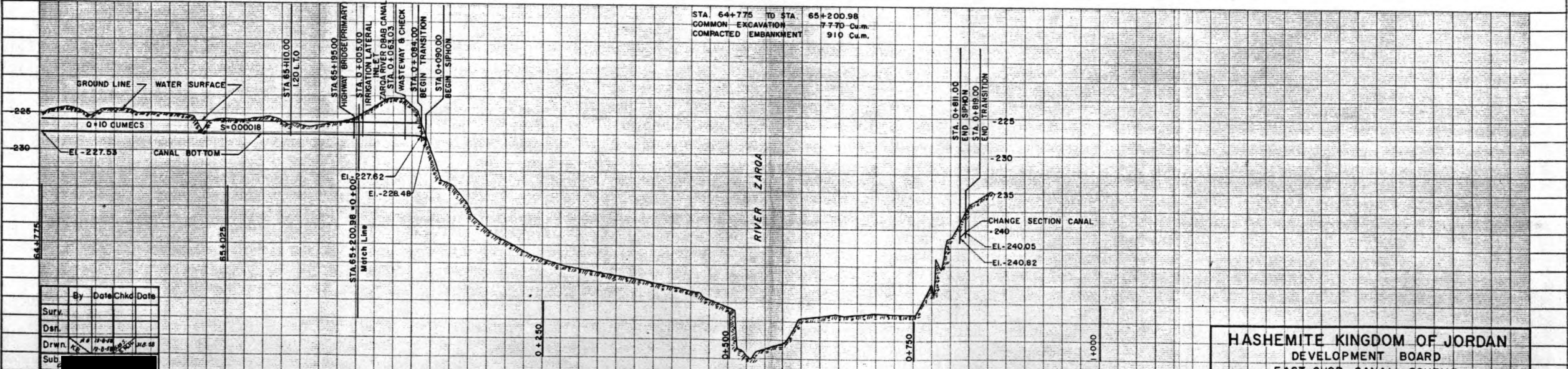
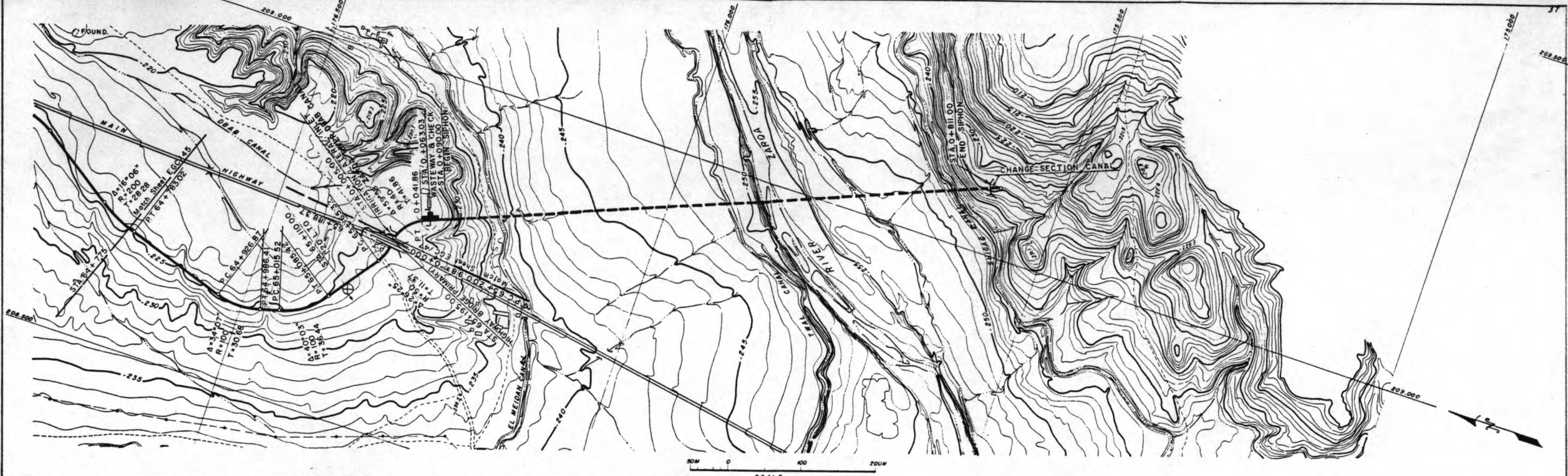
APPROVED: [Signature]

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC / 40

PLAN
 SURVEYED
 PLOTTED
 CHECKED
 NO. OF WY CHECKED

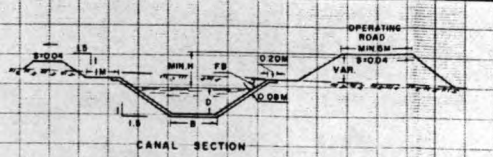
PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 NO. OF WY CHECKED



STA. 64+775 TO STA. 65+200.98
 COMMON EXCAVATION 7.770 Cu.m.
 COMPACTED EMBANKMENT 910 Cu.m.

By	Date	Chkd	Date
Surv.			
Dsn.			
Drwn.			
Sub.			

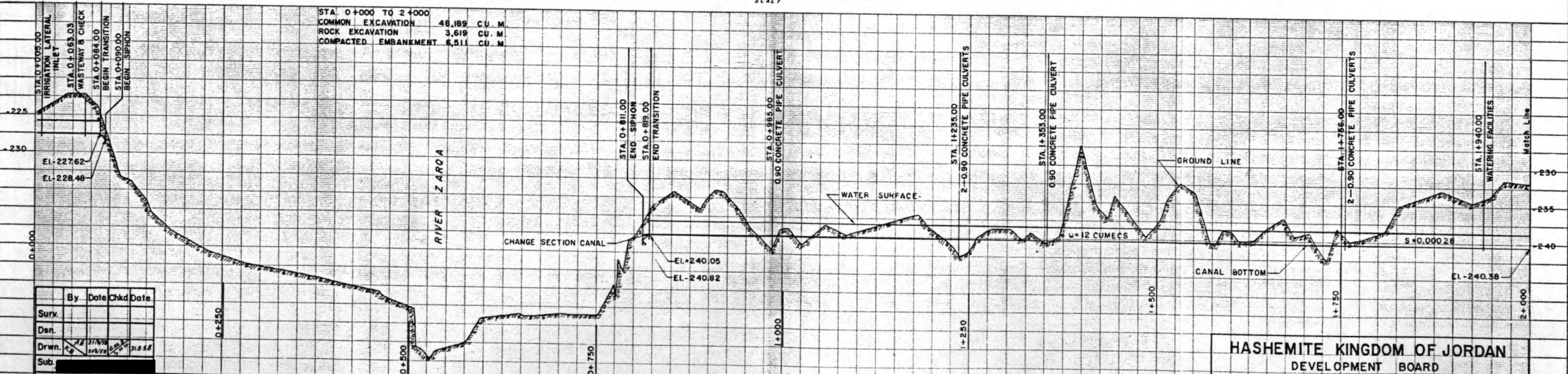
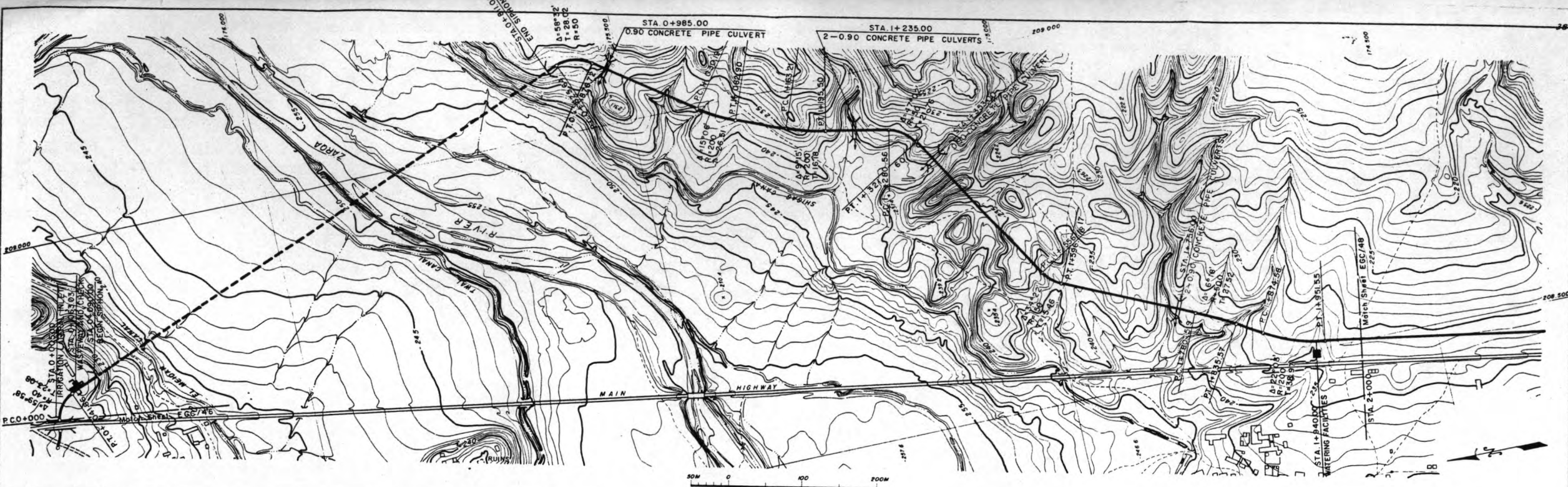
HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00018	0.014
SIPHON	12	2.78	4.32	1.88		0.47				0.018
CANAL	12	9.96	1.21	1.77	2.97	1.00	0.30	0.83	0.00028	0.014



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL
 PLAN AND PROFILE
 Sta. 64+775 TO Sta. 65+200.98 = 0+000

APPROVED: [Signature]

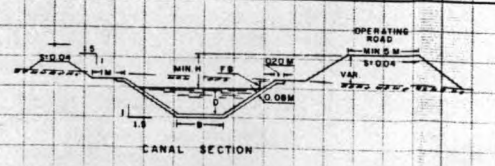
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.
 AMMAN, JORDAN
 DATE 1-9-1958
 DWG. NO. Sheet of
 EGC / 46



STA. 0+000 TO 2+000
 COMMON EXCAVATION 48,189 CU. M.
 ROCK EXCAVATION 3,619 CU. M.
 COMPACTED EMBANKMENT 6,511 CU. M.

By	Date	Chkd	Date
Surv.			
Des.			
Drwn.	12/17/58	12/17/58	12/18/58
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	10	9.96	1.00	1.77	2.97	1.00	0.30	0.83	0.00	0.18
SIPHON	12	2.78	4.32	1.88		0.47				0.018
CANAL	12	9.96	1.21	1.77	2.97	1.00	0.30	0.83	0.00	0.28

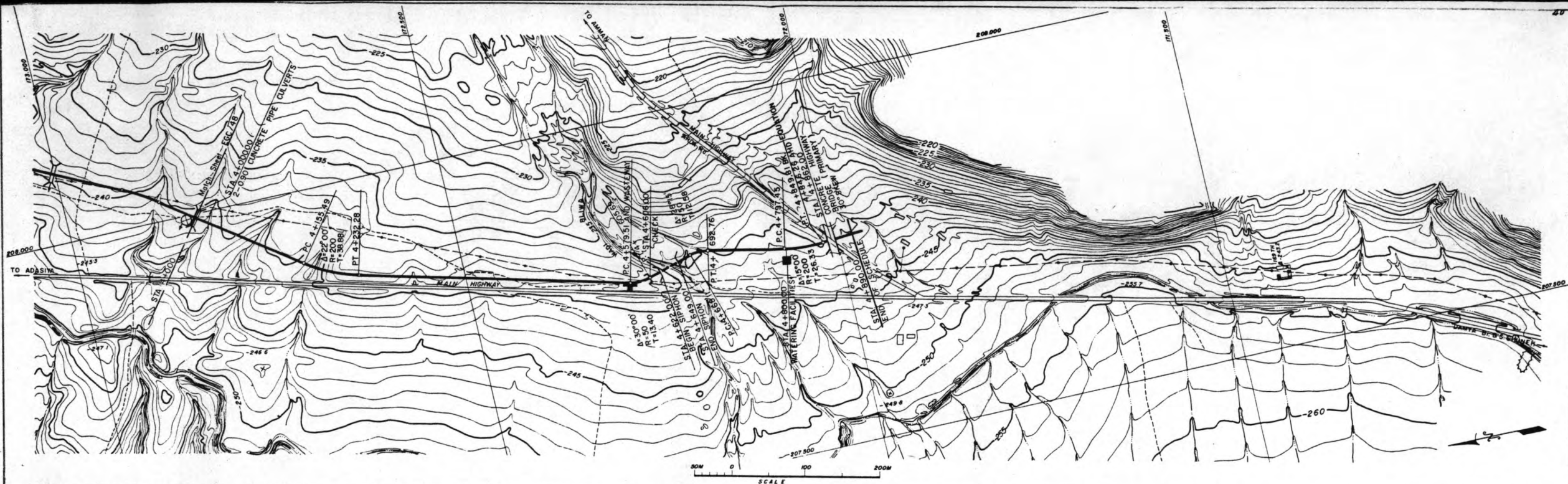


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL-SOUTH
 PLAN AND PROFILE
 Sta. 0+000 TO Sta. 2+000

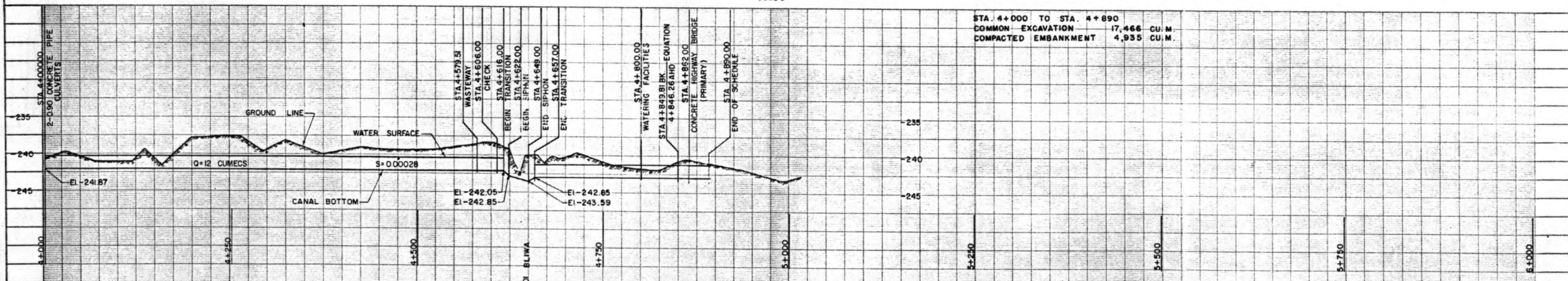
APPROVED: [Signature]
 AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. Sheet of EGC / 47

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
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PLAN
 SURVEYED
 PLOTTED
 CHECKED
 BY
 DATE
 NO.

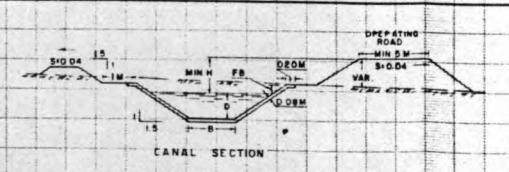


PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 BY
 DATE
 NO.



By	Date	Chkd	Date
Surv.			
Dsr.			
Drwn.	11/1/58		11/6/58
Sub.			

HYDRAULIC PROPERTIES										
SECTION	Q	A	V	D	B	R	FB	H	S	N
CANAL	12	996	1.21	1.77	297	1.00	0.33	0.83	0.00028	0.014
SIPHON	12	275	1.32	1.89			.47			0.018



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 EAST GHOR MAIN CANAL-SOUTH-
 PLAN AND PROFILE
 Sta. 4+000 TO Sta. 4+890

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 AMMAN, JORDAN
 DATE: 1-9-1958
 DWG. NO. Sheet of
 EGC / 49

BENDING DETAILS			
TYPE	DIAGRAM	TYPE	DIAGRAM
Std. 180° Hooks		Bar ^m A	
		2 0.10	
		3 0.12	
		4 0.15	
		5 0.18	
		6 0.20	
		7 0.25	
		8 0.33	
		9 0.38	
		10 0.43	
		11 0.49	
Stirrup & Column Tie 135° Hooks		Bar ^m H A	
		2 0.05 0.09	
		3 0.06 0.10	
		4 0.06 0.11	
		5 0.07 0.12	
		90° Bend	
		D = 6d for bars "2 to 7"	
		D = 8d for bars "8 to 11"	
		Standard size (minimum) pin used for bending	
		PIN DIA.	USE
		6d	Hooks and bends for main reinforcement
		8d	Hooks on stirrups, hoops, ties, etc.
		5d	Corner bends (other than hooks) in stirrups, hoops, ties, etc.
		2d	

BAR DESIGNATION STANDARDS			STANDARD ABBREVIATIONS	
Bar Sizes	Weight	Diameter	mi = middle layer	ii = inside layer
Old (Inches)	New (Numerals)	Kg. per meter	Centimeter	
1/4"	#2	.248	.635	
3/8"	#3	.559	.953	
1/2"	#4	.994	1.270	
5/8"	#5	1.551	1.588	
3/4"	#6	2.234	1.905	
7/8"	#7	3.040	2.223	
1"	#8	3.972	2.540	
1 1/8"	#9	5.058	2.865	
1 1/4"	#10	6.401	3.226	
	#11	7.903	3.581	

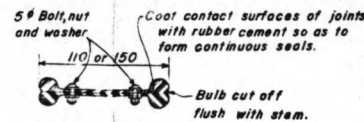
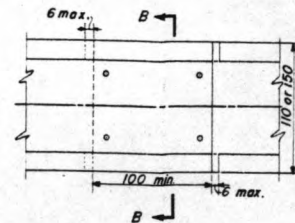
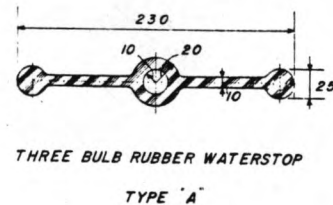
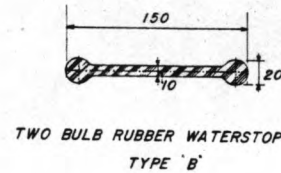
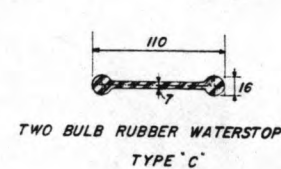
TYPICAL BAR BILLING			
mi	ii	ff	bf
mi = middle layer	ii = inside layer	ff = far face	bf = bottom face
ff = far face	nf = near face	el = each layer	ef = each face
oc = center to center	bl = bottom layer	tl = top layer	ol = outside layer

NOTES:
 1. Bar spacing in meters.
 2. Straight bars designated by size, bent bars generally by type ie, f2.

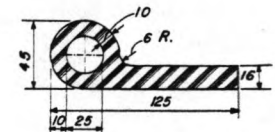
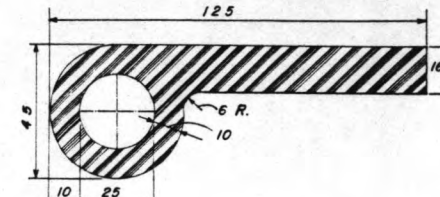
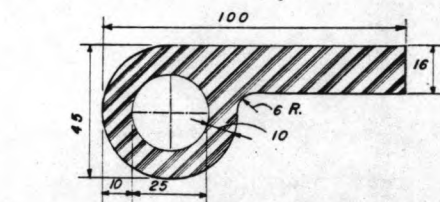
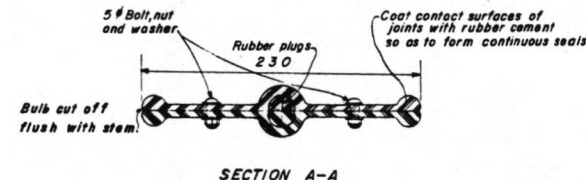
*6@ 0.20 oc, ff *6 f2@ 0.25 oc, ff
 10-6 ff 8-6 f2 ff

ABBREVIATIONS & SYMBOLS

abt. About	M.T. Metric ton
C.J. Construction joint	nts Not to scale
cl. Center line	No. Number
C.M. Cubic meters	oc on center
dia Diameter	reinf. Reinforcement
φ Diameter	R Radius
dn Down	□ Square
dwg Drawing	std. Standard
ea Each	Sta Station
El. Elevation	symm. Symmetrical
H.P. High point	typ. Typical
H.W. Head water	V.G. V-groove
L.P. Low point	W.L. Working line
max. Maximum	W.P. Working point
min. Minimum	W.S. Waterstop
m.m. Millimeters	W.S. Water surface

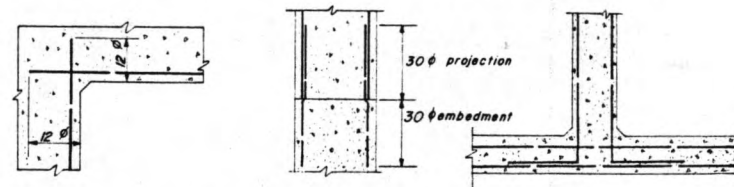


SECTION B-B



WATERSTOPS

(All dimensions in millimeters)



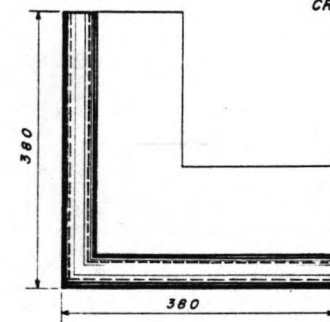
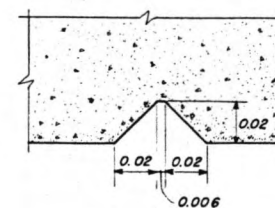
(Unless otherwise noted on drawings)

GENERAL NOTES FOR CONCRETE

Provide toled edges for all construction and contraction joints on surfaces where wood floor or steel trowel finish is required.
 Concrete surfaces exposed to the flow of water must be smooth.
 Unless otherwise noted, roughen surfaces of pours at construction joints.
 Provide 0.02 chamfer for all exposed external corners.
 Provide V-groove joints as detailed on this drawing.
 Waterstops to be continuous.
 Lifts in columns not to exceed 3 meters in height.

GENERAL NOTES FOR REINFORCEMENT

Laps to be 30 bar diameters minimum, except as noted.
 Main reinforcement to have minimum cover as follows: (except as otherwise noted on drawings):
 1. Bottom of foundation footings 0.07
 2. Backfilled surfaces 0.05
 3. Walls and slabs (not exposed to water) 0.04
 4. Beams 0.05
 5. Columns 0.08
 6. Cover for secondary reinforcement (i.e. stirrups, collies), may be reduced by the diameter of such bars.
 7. All reinforcement subject to A.C.I. building code, unless otherwise noted.



RUBBER SEALS (Dimensions in millimeters)

Not to scale Except as noted.

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

STANDARD DETAILS
 SHEET 1

APPROVED [Signature]

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

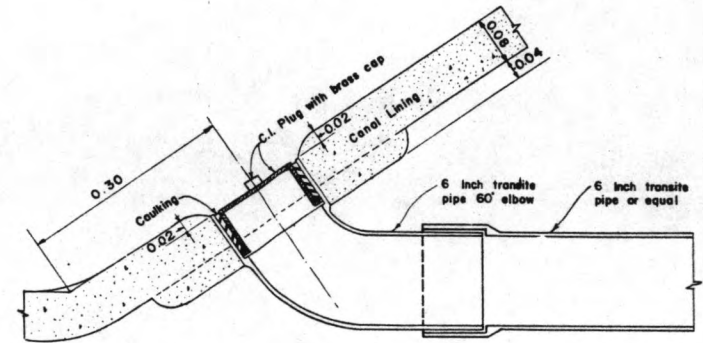
AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. EGC/98

By	Date	Chkd	Date
Dsn.			
Dr. wn.	4.4.53		5.5.53
Trac.			
Sub.			

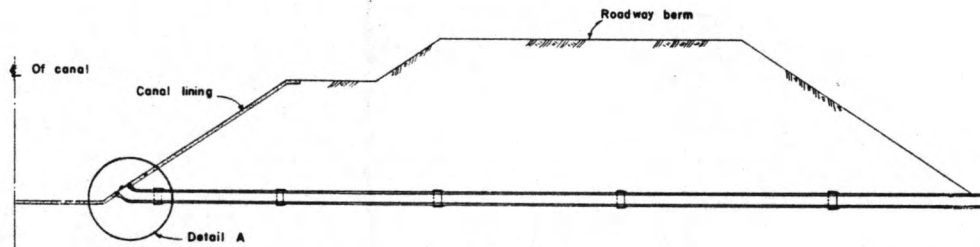
TYPE OF WELD							FLUSH	WELD ALL AROUND	FIELD WELD
BEAD	FILLET	PLUG OR SLOT	GROOVE						
			SQUARE	V	BEVEL	U	J		
IN PLAN OR ELEVATION (WITH DIMENSIONS AS REQUIRED)									
ARROW (OR NEAR) SIDE OF JOINT			OTHER (OR FAR) SIDE OF JOINT			BOTH SIDES			
Weld all around Field weld Reinforced other side Weld flush Diameter of root (plug) Included angle of bevel			Length of increment Joint opening Field weld all around Pitch of increments Root opening Reinforced arrow side See detail When proportions are not standard Length of slot Width of slot Pitch of slots Minimum pad thickness			Offset if staggered Flush finish Bead finish Depth of groove (size) Finish flush Corner joint See detail For special welds			
EXTENT OF WELDS See note 4									
WELDS IN SECTION OR END VIEW See notes 5 and 6							FINISH MARKS C C Chip G G Grind M M Machine		
NOTES 1. The side of the joint to which the arrow points is the arrow (or near) side. 2. All welds are continuous and of standard proportions unless otherwise shown. The root openings of all grooved welds will be fabricator's standard practice unless otherwise shown. 3. Welds on both sides are of the same size unless otherwise shown. 4. Symbols govern to break in continuity of structure or to extent of hatching or dimension lines. 5. On section or end views only, the side to which the arrow points is considered the near side when weld is not drawn. 6. When welds are drawn in section or end views, the size only need be given. 7. In joints in which one member only is to be grooved, the arrows point to that member. 8. All dimensions given in millimeters.									
FUSION WELDING SYMBOLS									

Application	Surface roughness & symbol (RMS microinches) *	Metric Equivalent (micro millimeters)
Normal finish	500	.12700
Average machine finish: gate guides, clearance surfaces, etc.	250	.6350
Good machine finish: bearing surfaces of plates, castings, all-over finished of machined washers and nuts, chain sprockets, etc.	125	3.175
Fine machine finish: boring, finish turning of pins, chain rollers, bearing surfaces of rockers.	63	1.600

* Root-mean-square. The RMS value is a weighted average that is affected to a greater extent by the highest and the lowest deviation from the nominal surface than by the minor deviations. It is somewhat larger than the arithmetical average.



DETAIL A
not to scale
Dimensions in Meters

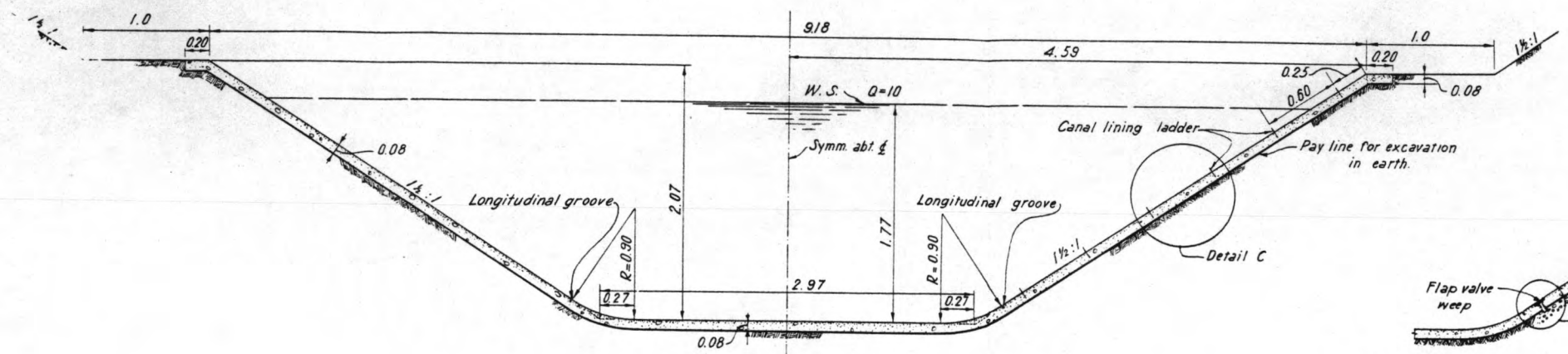


SECTION
WATERING FACILITY
(Typical)
(For location see Plan B Profile Sheets)
not to scale

	By	Date	Chkd	Date
Dsn.				
Drawn.				
Trac.				
Sub.				

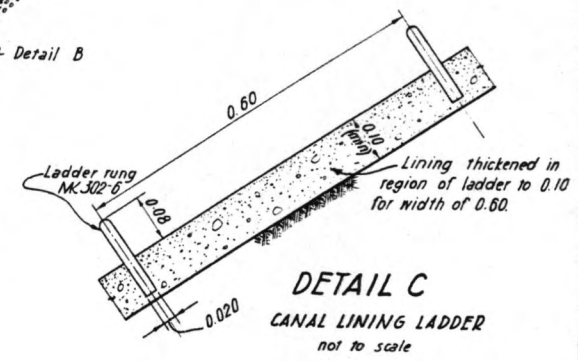
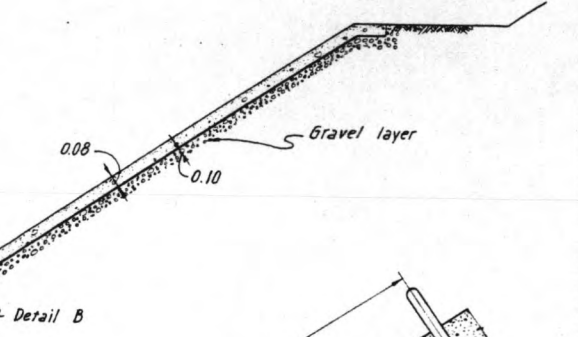
HASHEMITE KINGDOM OF JORDAN DEVELOPMENT BOARD EAST GHOR CANAL SCHEME		
STANDARD DETAILS SHEET 2		
APPROVED:	[Redacted Signature]	
AMMAN, JORDAN	DATE 1-9-1958	DWG. NO. EGC/99

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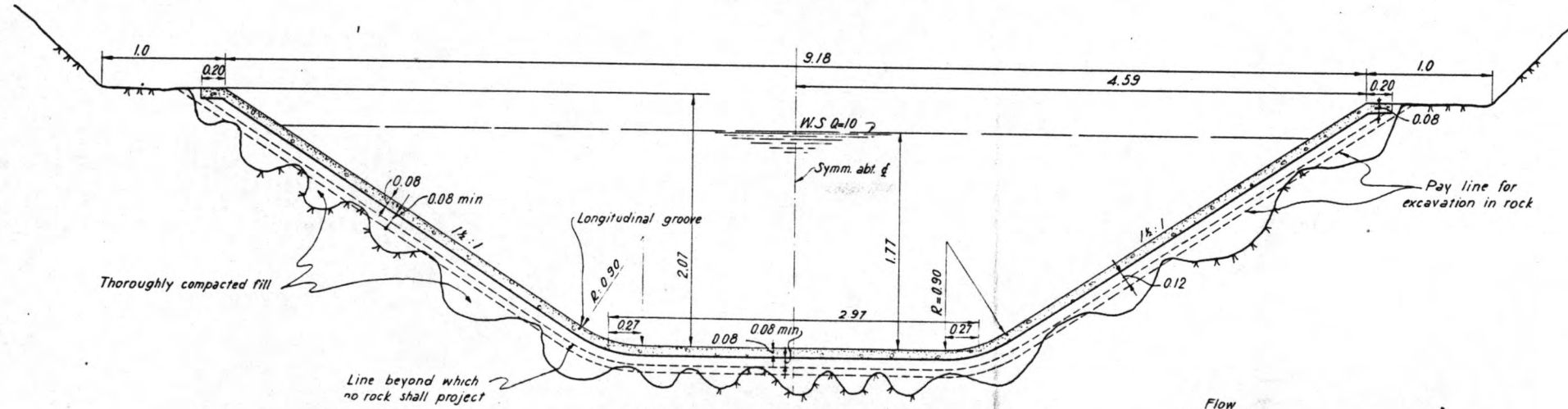


LINING DETAIL
EARTH EXCAVATION

LINING DETAIL
UNDER DRAINAGE



DETAIL C
CANAL LINING LADDER
not to scale



LINING DETAIL
ROCK EXCAVATION

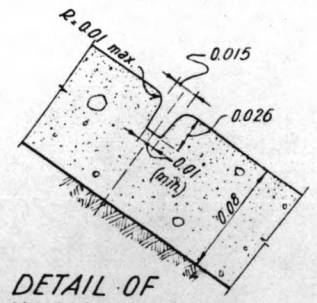
REFERENCE DRAWINGS

Standard Details EGC/98
Plan and Profile EGC/12 to EGC/49
Miscellaneous Metals EGC/303

NOTES:

- 1.- Canal lining ladder rungs to be placed during concrete lining operations, staggered each side of canal @ 300 meter intervals and upstream of structures as directed.
- 2.- Canal R=0.90 shown may be varied as approved, to meet requirements of lining equipment.
- 3.- Flap valve weep with gravel layer to be provided where directed.
- 4.- Concrete design based on a compressive strength of 210 Kg. per sq. cm.

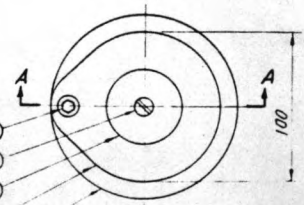
Scale
Except as noted



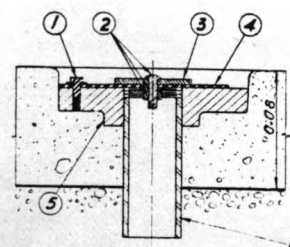
DETAIL OF
LINING GROOVE

Scale
0 0.05 0.10 M.

- ① 6" x 12 Hex. hd. stainless steel cap screw and washer.
- ② 6" x 20 Brass stove bolt with nut and washer.
- ③ 50 Dia Brass disk 3 minimum thickness.
- ④ 2 Rubber tube stock.
- ⑤ Companion flange.



PLAN
DETAIL B
FLAP VALVE WEEPS
(Dimensions in millimeters)

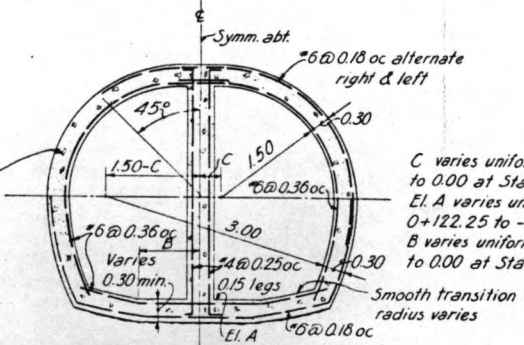
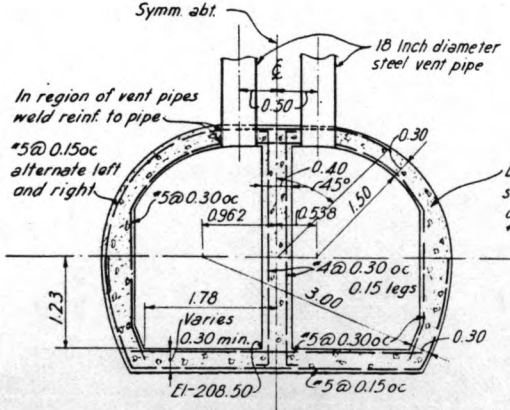
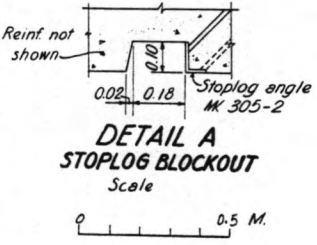
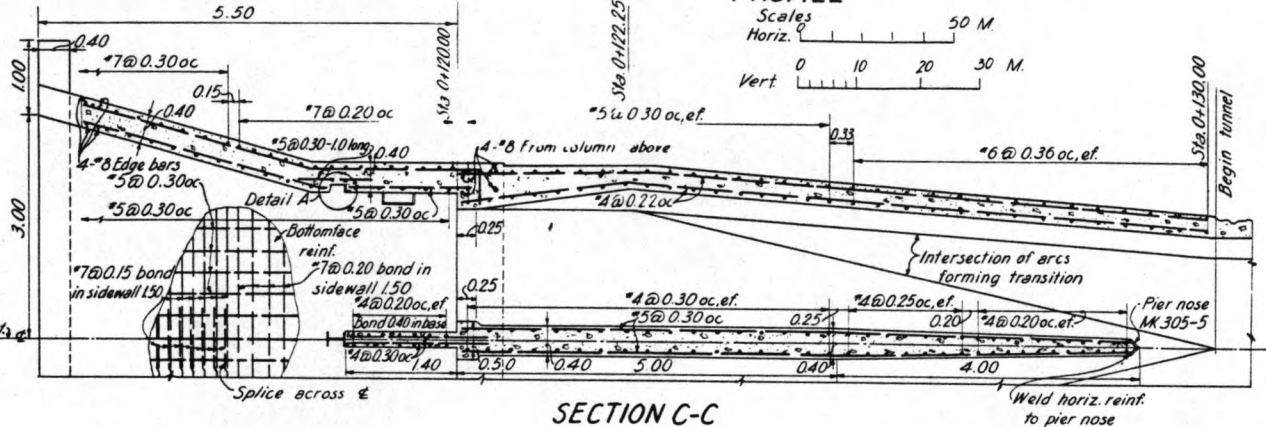
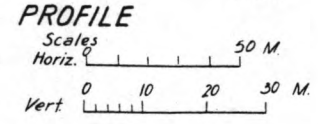
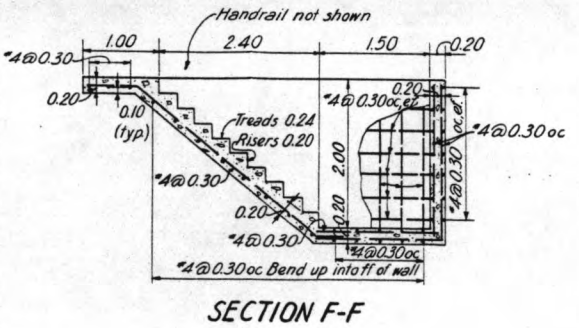
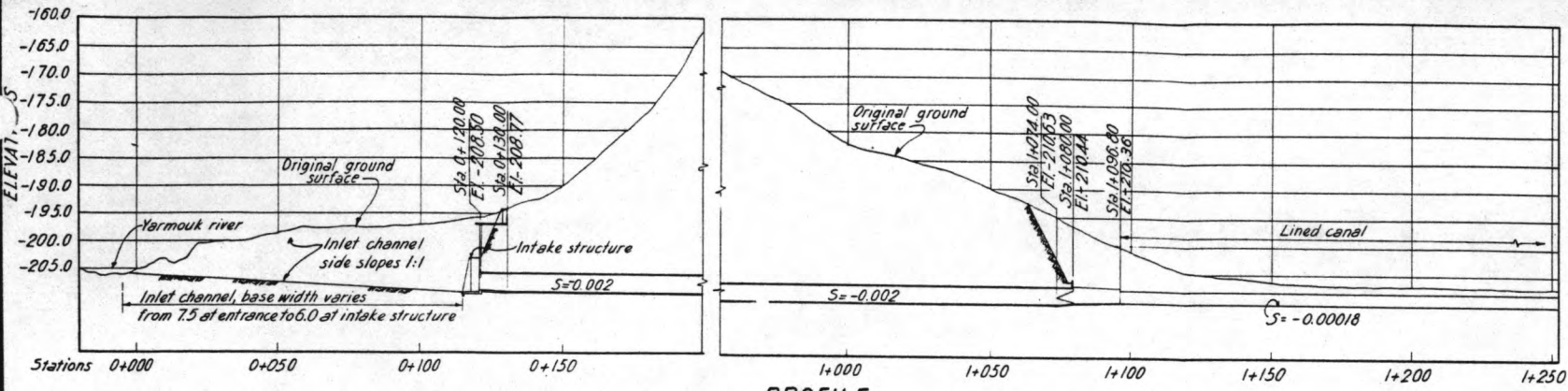


SECTION A-A
1/2 inch x 100
Pipe nipple,
threaded one end
only.

By	Date	Chkd	Date
Surv.			
Des.			
Drwn.	10/15/58	10/15/58	10/15/58
Sub.			

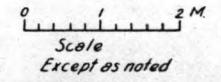
HASHEMITE KINGDOM OF JORDAN DEVELOPMENT BOARD EAST GHOR CANAL SCHEME		
CONCRETE CANAL LINING SECTIONS		
APPROVED:		
AMMAN, JORDAN	DATE: 1-9-1958	DWG. NO. EGC/100

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C varies uniformly from 0.538 at Sta. 0+122.25 to 0.00 at Sta. 0+130.00
 El. A varies uniformly from -208.50 at Sta. 0+122.25 to -208.77 at Sta. 0+130.00
 B varies uniformly from 1.78 at Sta. 0+122.25 to 0.00 at Sta. 0+130.00

NOTES:
 Refer to drawing EGC/101.

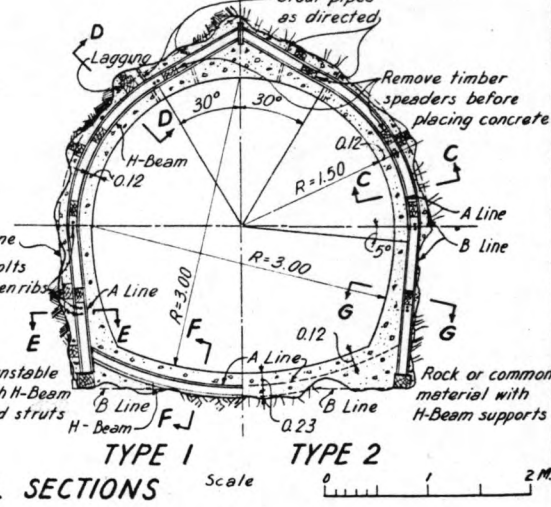
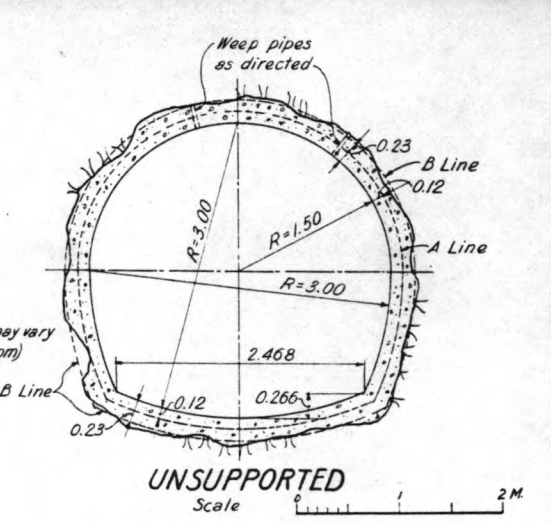
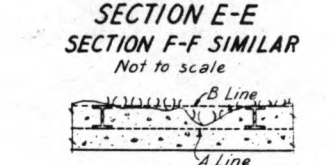
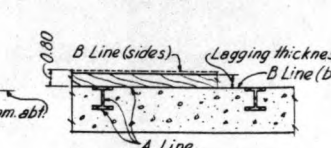
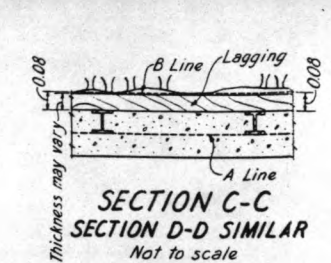
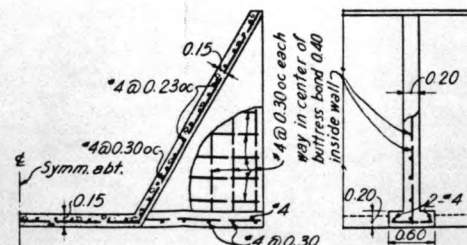
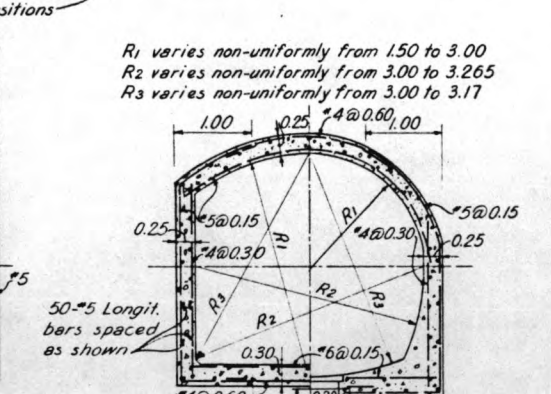
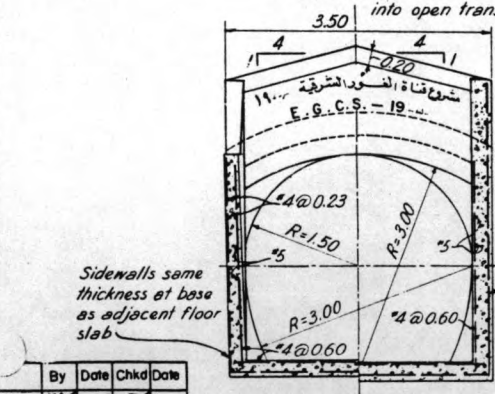
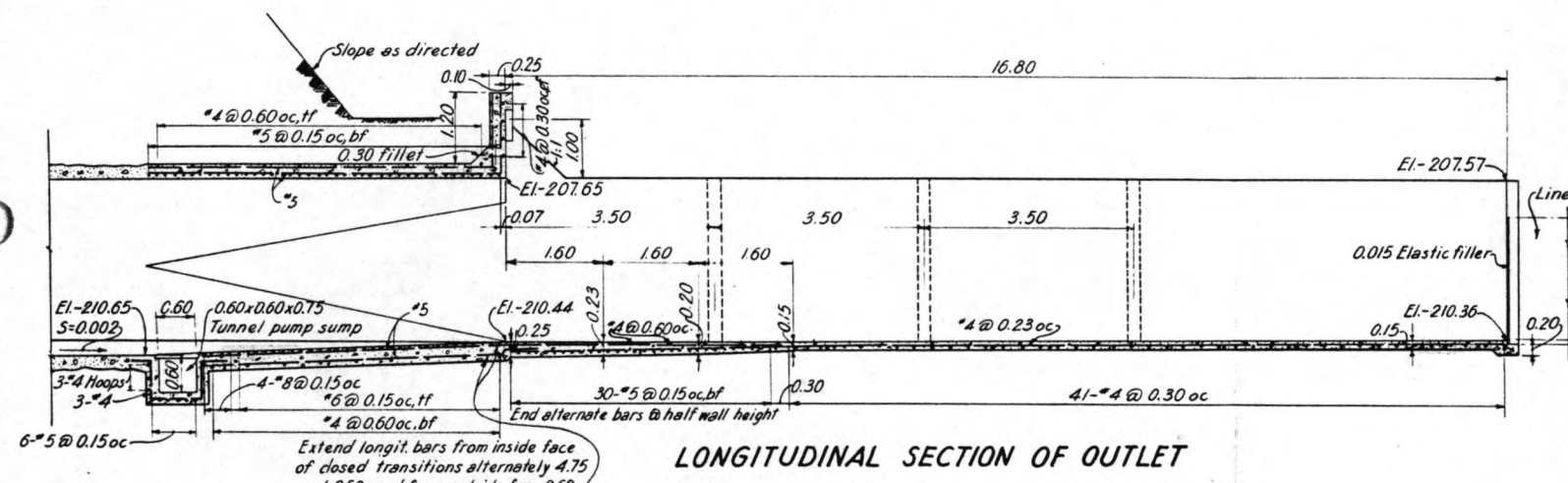
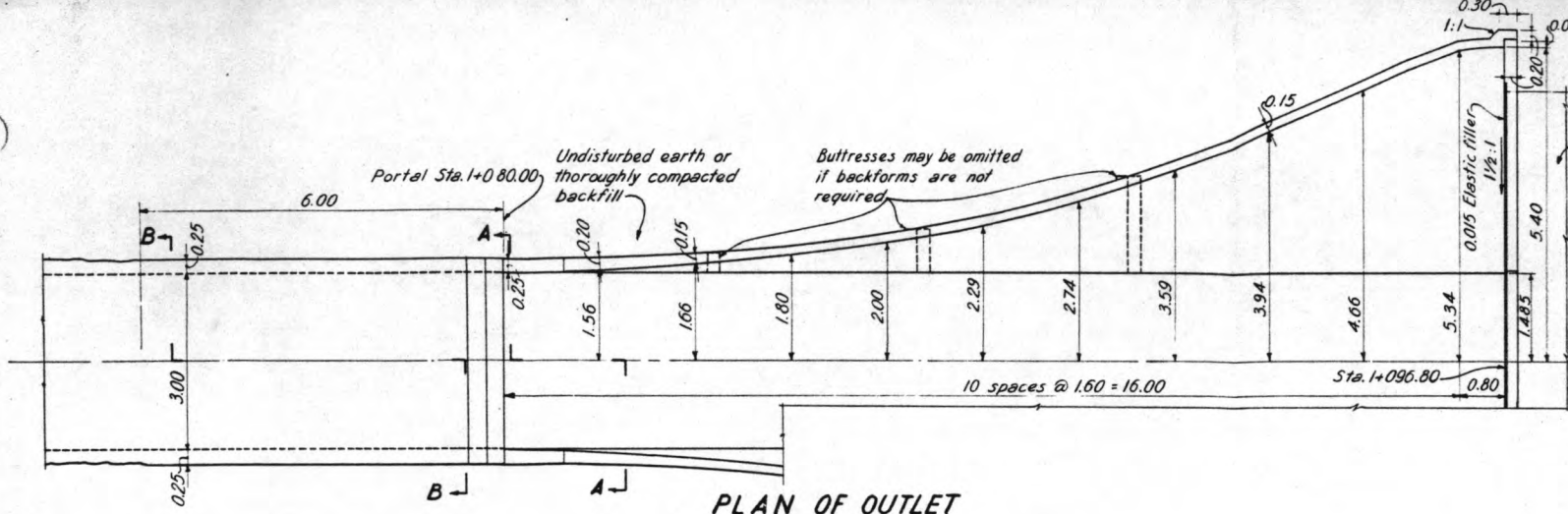


HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 TUNNEL INTAKE STRUCTURE
 SHEET 2

APPROVED: [Signature]

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.
 AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. EGC/102

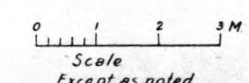
By	Date	Chkd	Date
Dsn.	1/24		
Drwn.	1/25		1/31/58
Trac.	1/25		1/29/58
Sub.			



REFERENCE DRAWINGS
 Standard Details EGC/98
 Plan & Profile EGC/12

ESTIMATED QUANTITIES
 Concrete reinforced 46.8 C.M.
 Concrete tunnel lining 2,340.0 C.M.
 Reinforcement steel 3.59 M.T.

- NOTES:**
1. Clear cover for reinforcement adjacent to surface placed against ground is 0.07 otherwise all clear cover is 0.05.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Thickness of concrete to vary uniformly between dimensions shown.
 5. Elastic joint filler to be securely fastened to one face of concrete.
 6. Concrete design based on a compressive strength of 210 kg per sq. cm.



By	Date	Chkd	Date
Den.	15/11/58	MP	17/11/58
Drwn.	17/11/58	MP	17/11/58
Trac.			
Sub.			

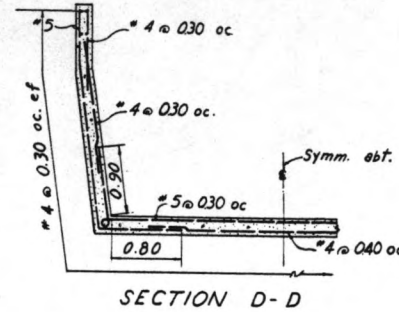
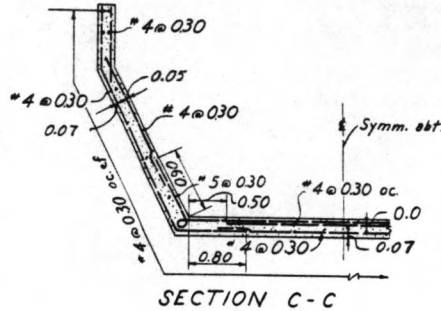
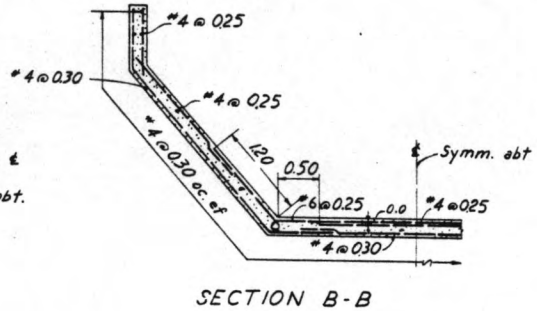
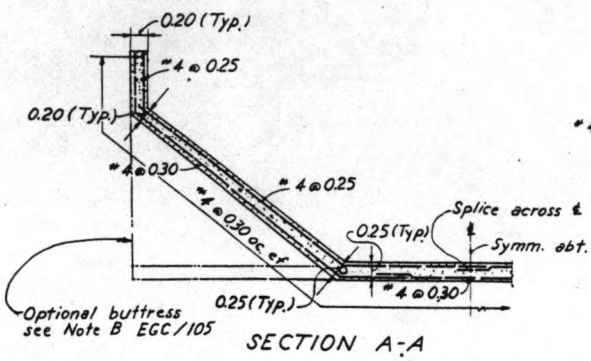
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

TUNNEL OUTLET & TUNNEL SECTIONS

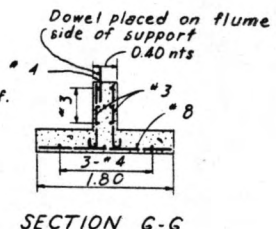
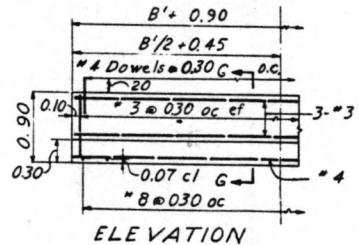
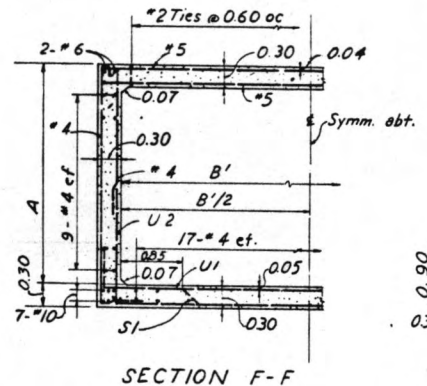
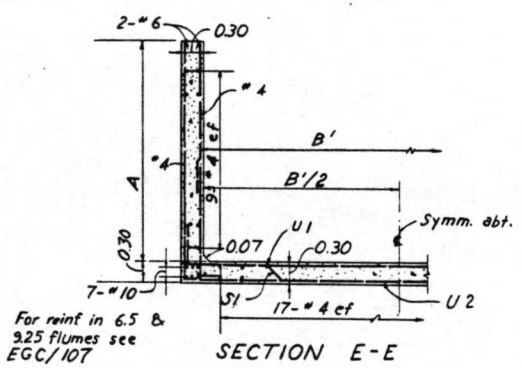
APPROVED: [Signature]

AMMAN, JORDAN	DATE: 17-8-58	DWGNO: EGC/103
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Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.



TYPICAL TRANSITION SECTIONS
(EGC/105)

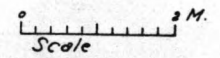


ABUTMENT
END FLUME SUPPORT

FLUME SECTIONS
(EGC/105)

REFERENCE DRAWINGS:
Work this drawing with EGC/105 & EGC/107

NOTES:
1. Refer to EGC/105



By	Date	Chkd. Date
Des. M.A.J.	11/1/58	11/1/58
Drwn. H.F.J.	10/1/58	11/1/58
Trac.		
Sub.		

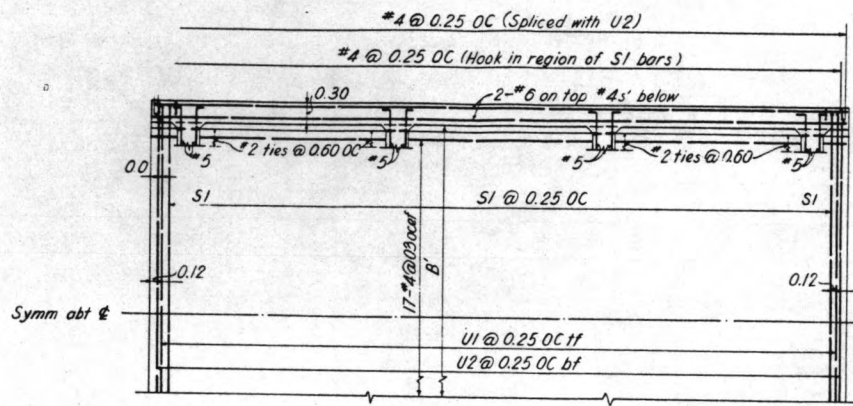
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

FLUME FOR 20-18 CUMecs CAPACITY
& TYPICAL TRANSITION
SHEET 2

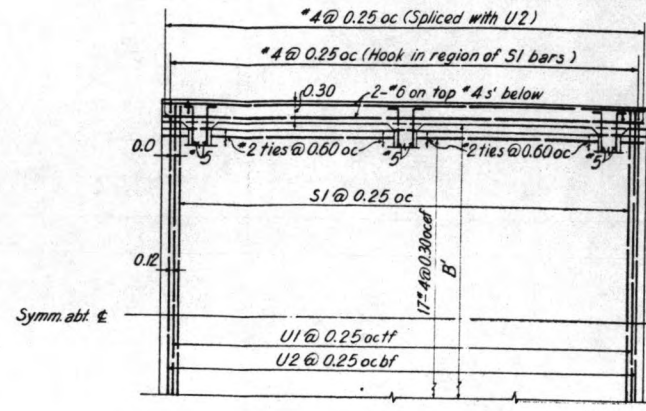
APPROVED: _____

AMMAN, JORDAN DATE 1-9-1958 DWS. NO. EGC/106

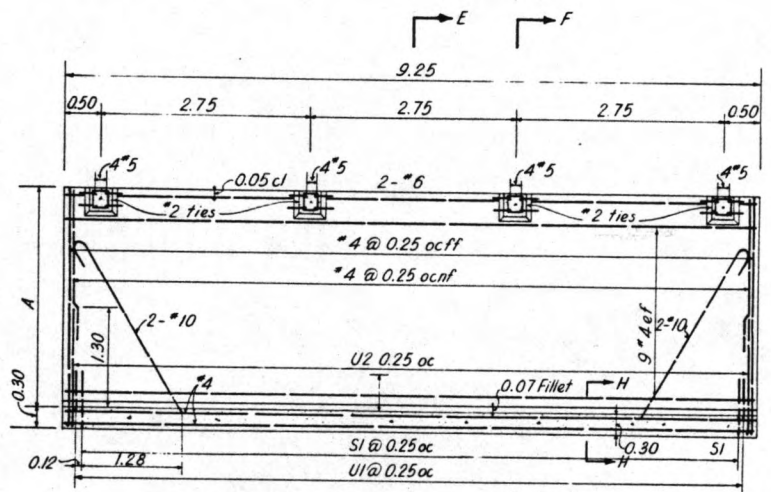
Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.



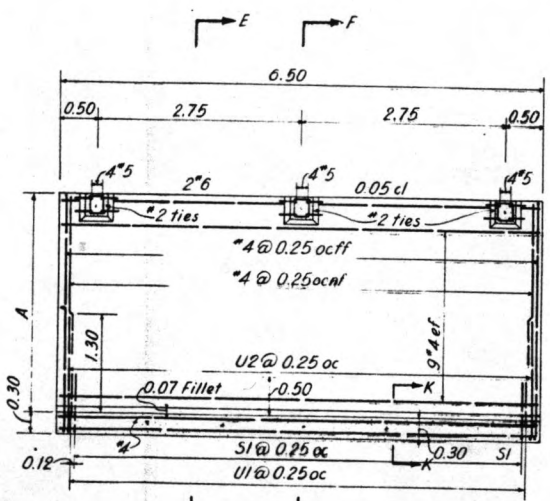
PLAN FLUME
(9.25 Manolith)



PLAN FLUME
(6.50 Manolith)



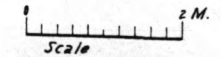
ELEVATION FLUME
(9.25 Manolith)



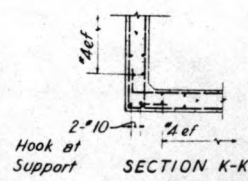
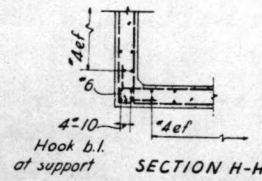
ELEVATION FLUME
(6.50 Manolith)

REFERENCE DRAWINGS
Work this drawing with EGC/105 & EGC/106

NOTES:
Refer to EGC/105



By	Date	Chkd	Date
MA	11.5.58	MA	11.5.58
Drwn.	KA.Ba	10.5.58	MA
Trac.			
Sub.			



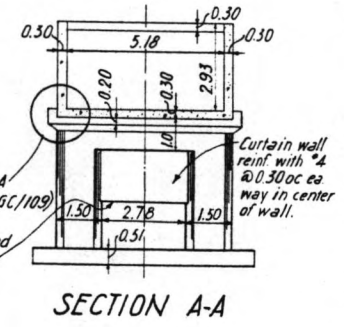
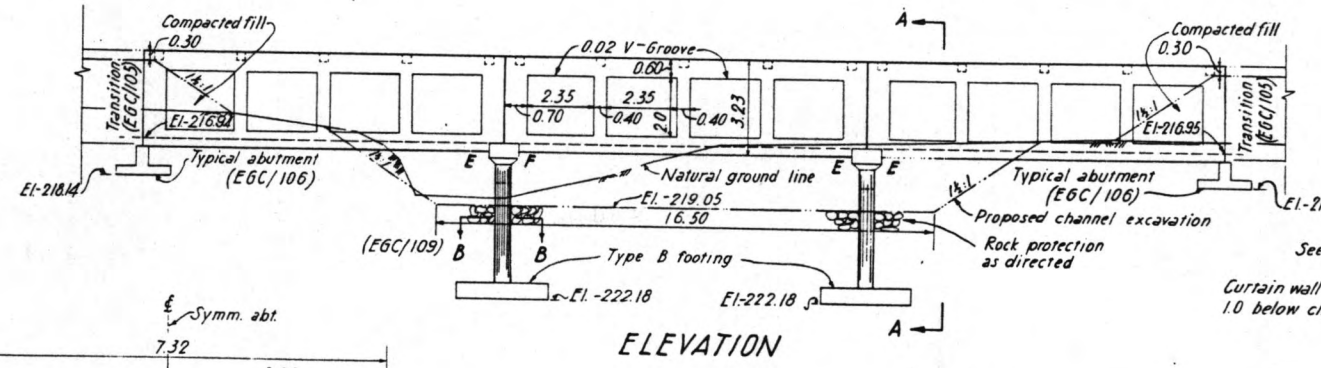
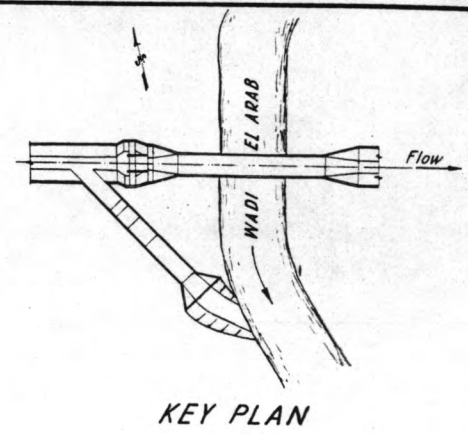
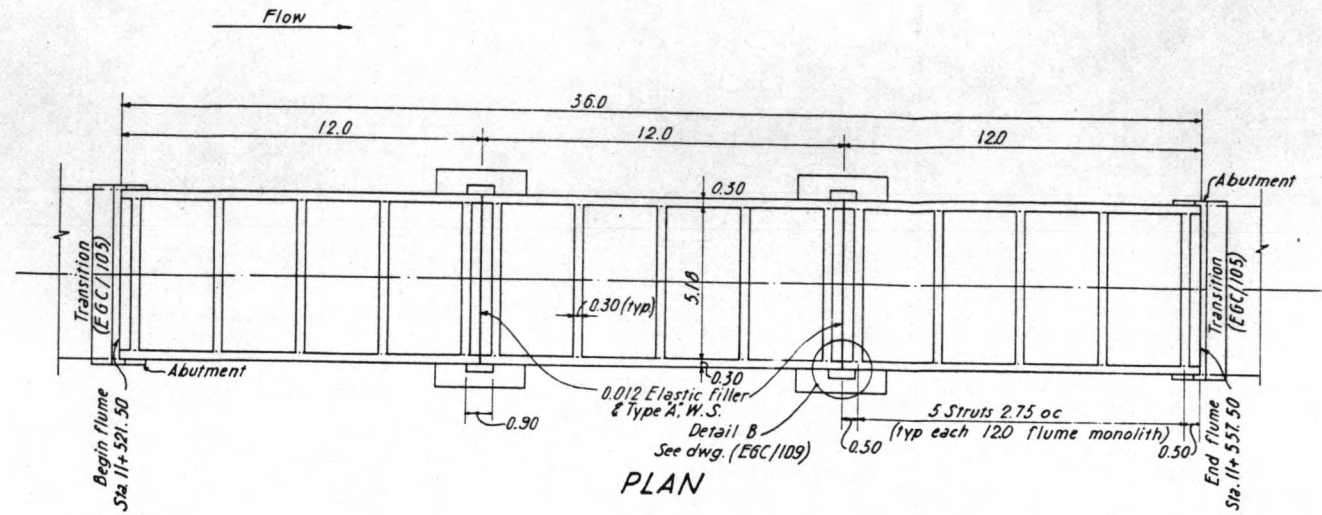
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

FLUME FOR 20-18 CUMEGS CAPACITY
SHEET 3

APPROVED: [Redacted]

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

AMMAN, JORDAN DATE 1-9-1958 DWG. No. EGC/107



ESTIMATED QUANTITIES

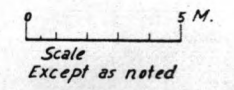
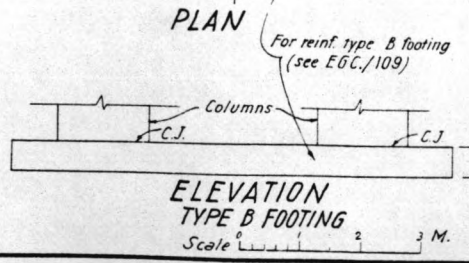
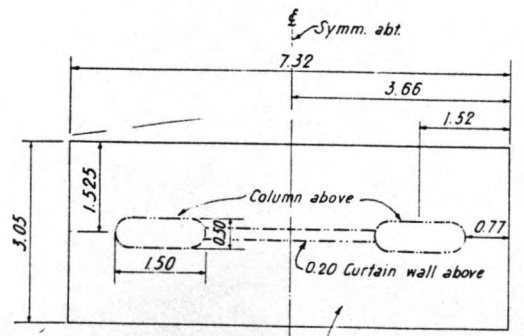
Concrete 222 C.M.
Reinforcement 26.27 M.T.

REFERENCE DRAWINGS

Work this drawing with EGC/105, EGC/106, & EGC/109
Standard Details EGC/98
Plan and Profile EGC/18

NOTES:

1. Clear cover for reinforcement is 0.05 unless otherwise noted.
2. Lap all bars 30 diameters at splices.
3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
4. Elastic joint filler shall be securely fastened to one face of concrete.
5. "Estimated Quantities" are for 2 transitions, flume & substructure.
6. Concrete design based on a compressive strength of 210 Kg. per sq. cm.



HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

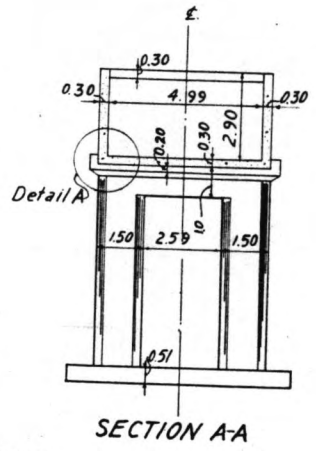
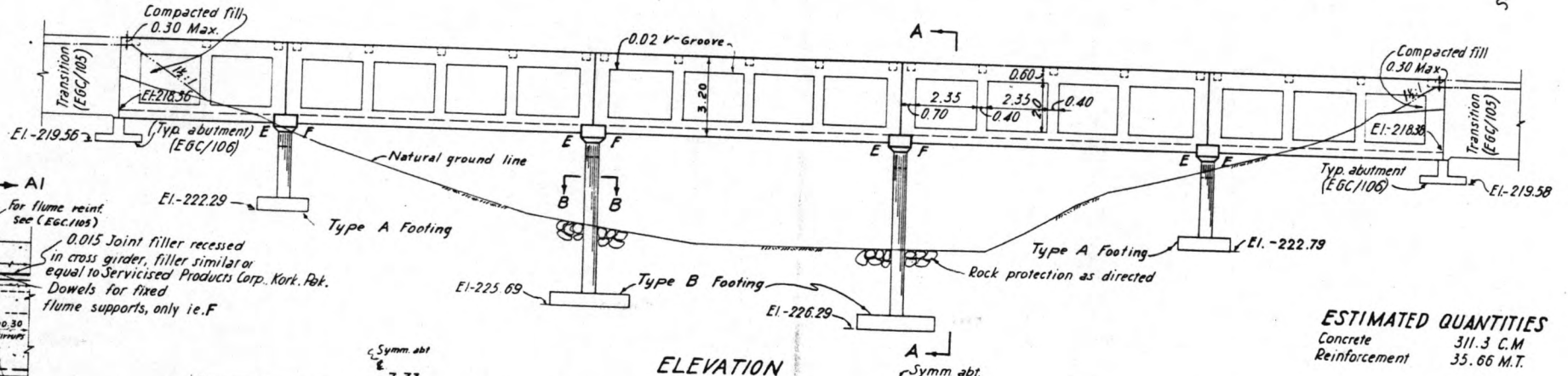
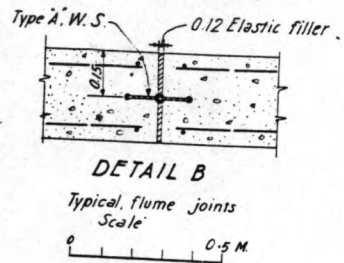
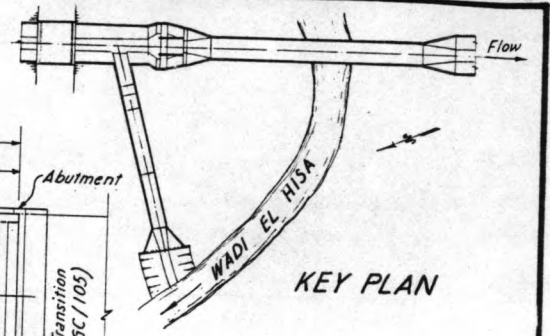
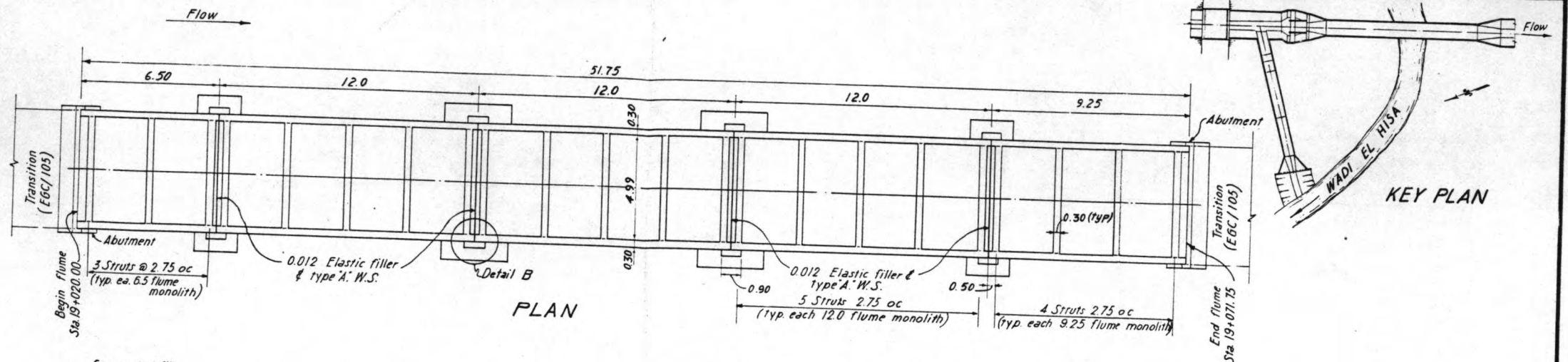
WADI EL-ARAB CROSSING

APPROVED: [Signature]

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/108

	By	Date	Chkd	Date
Des.	M. J.	1/15/58	N. H.	2/1/58
Drawn.	M. J.	3.8.58	N. H.	4.15.58
Rec.				
Sub.				

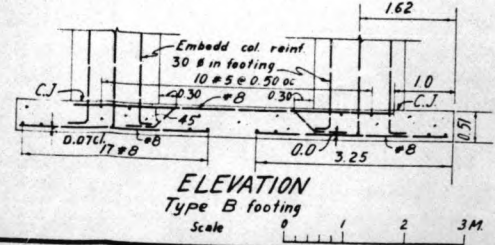
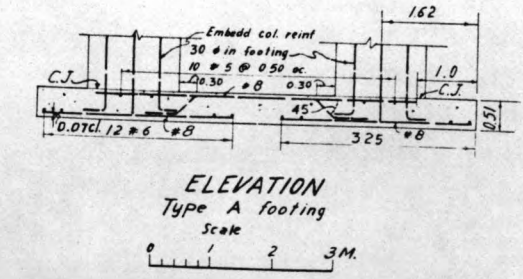
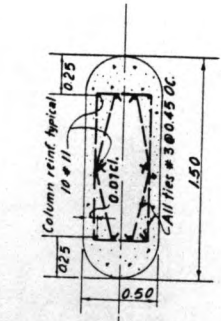
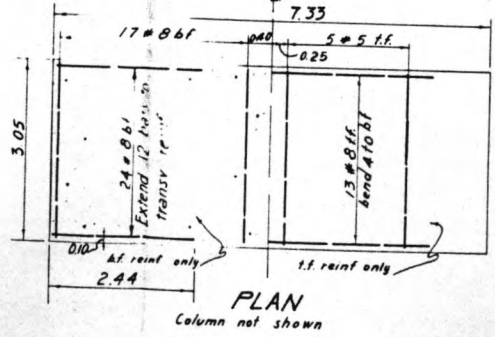
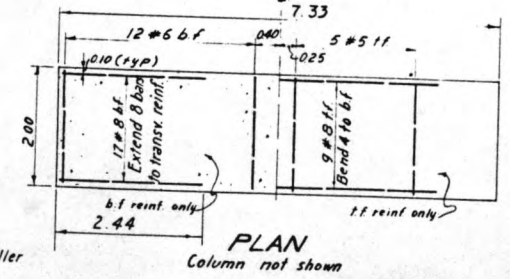
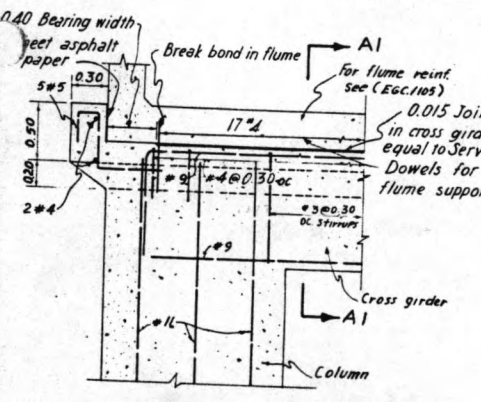


ESTIMATED QUANTITIES

Concrete 311.3 C.M.
Reinforcement 35.66 M.T.

REFERENCE DRAWINGS
Work this drawing with EGC/105, EGC/106, EGC/107, EGC/108, Standard Details EGC/98, Plan and Profile EGC/22

NOTES:
1. Refer to EGC/108



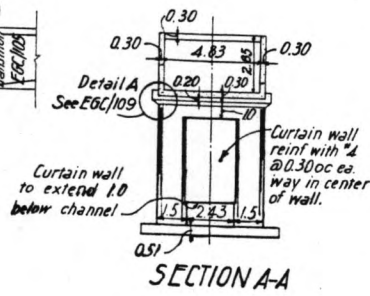
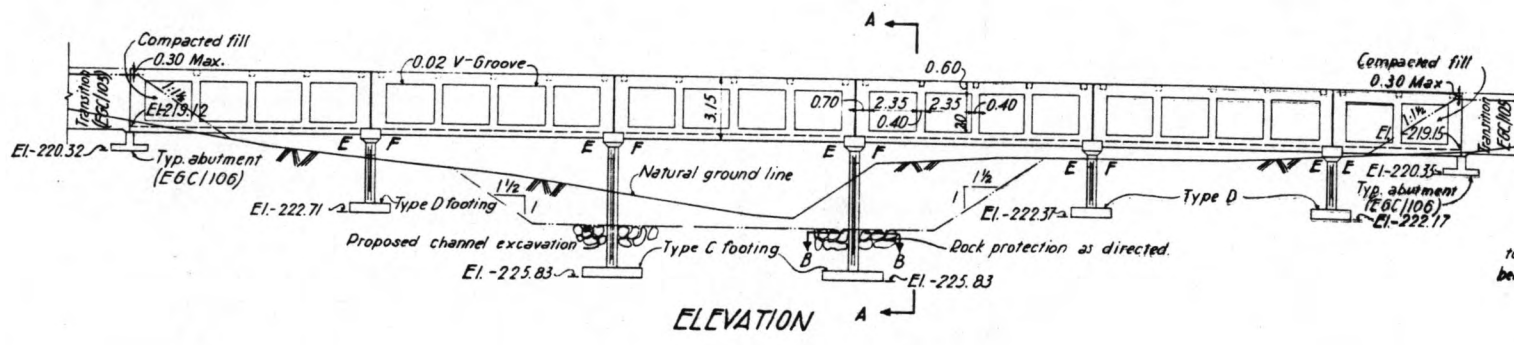
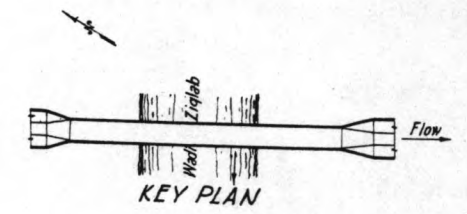
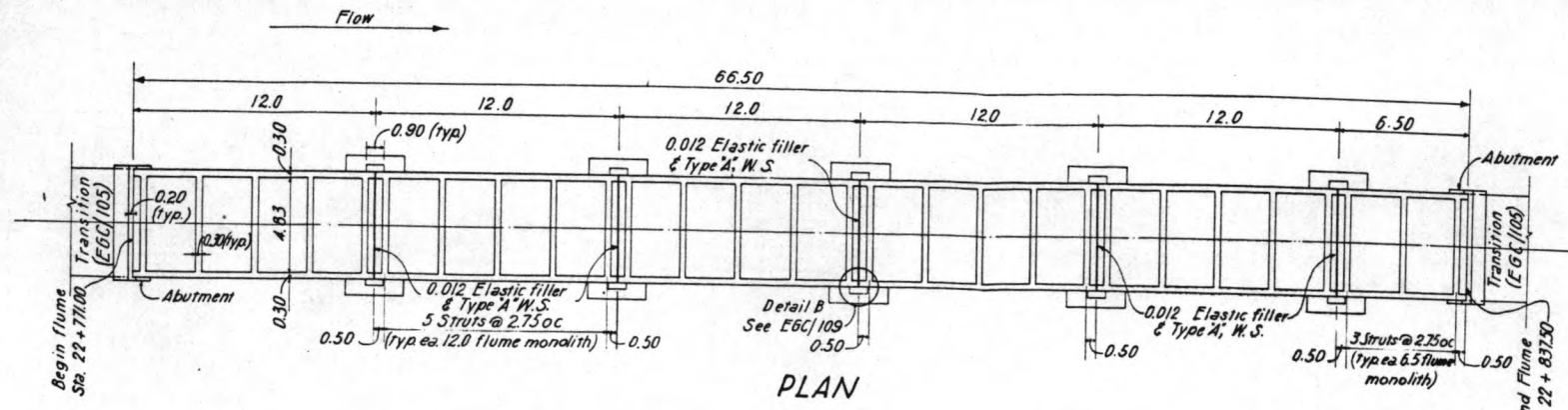
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

WADI EL-HISA CROSSING

APPROVED: _____
AMMAN, JORDAN DATE 1/9/1958 DWG. NO. EGC/109

Prepared under the supervision of
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HARZA ENGINEERING CO.

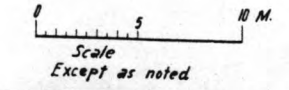
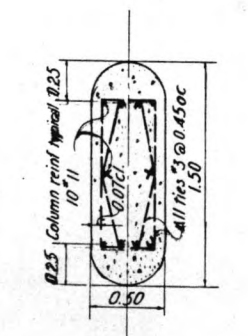
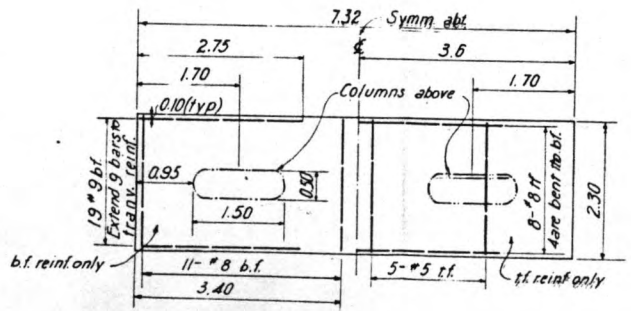
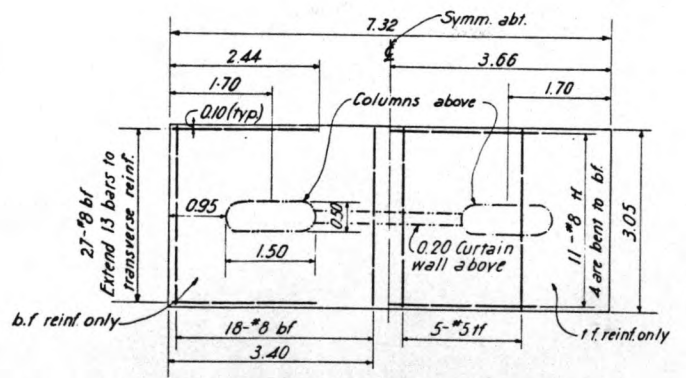
By	Date	Chk	Date
Des. M.H.	03.58	M.H.	4.58
Drawn. Kh.Ba.	3.4.58	M.H.	4.58
Trs.			
Sub.			



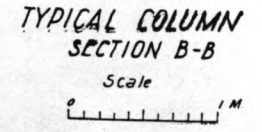
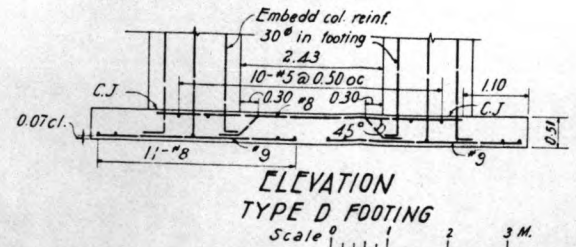
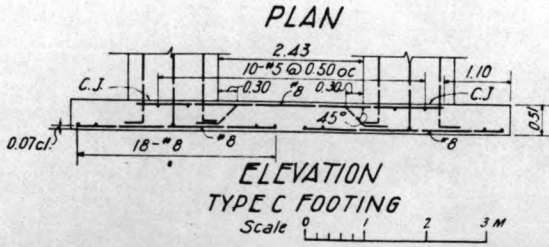
ESTIMATED QUANTITIES
 Concrete 372 C.M.
 Reinforcement 46.39 M.T

REFERENCE DRAWINGS
 Work this drawing with EGC/105, EGC/106, EGC/107 & EGC/109. Standard Details EGC/98 Plan and Profile EGC/24

- NOTES:**
- 1: Clear cover for reinforcement is 0.05 unless otherwise noted.
 - 2: Lap all bars 30 diameters at splices
 - 3: All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 - 4: Elastic joint filler shall be securely fastened to one face of concrete.
 - 5: Estimated Quantities are for Transitions flume & substructure.
 - 6: Concrete design based on a compressive strength of 210 kg. per sq. cm.



By	Date	Chkd	Date
Den.	M. 15.4.57	M. 15.4.57	15.4.57
Drwn	M. 15.4.57	M. 15.4.57	15.4.57
Trac.	M. 15.4.57	M. 15.4.57	15.4.57
Sub.			



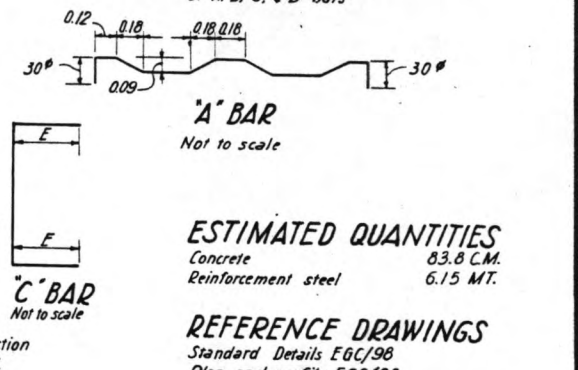
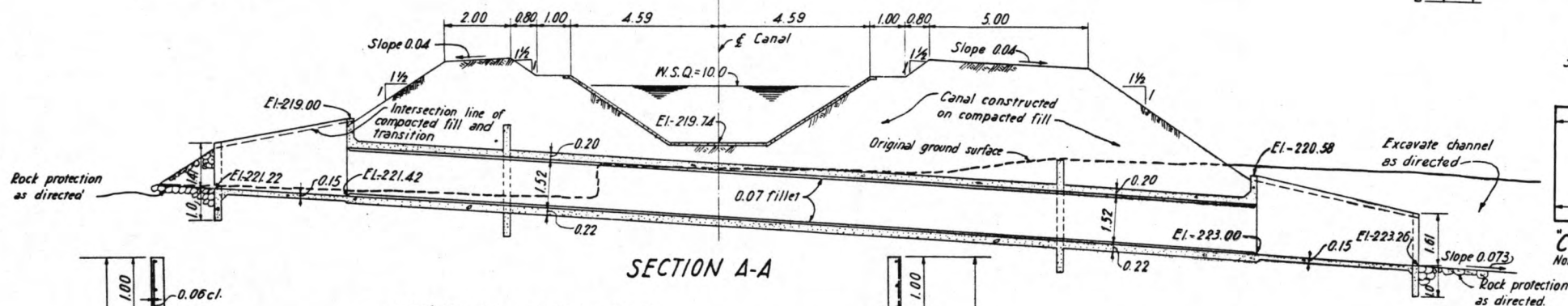
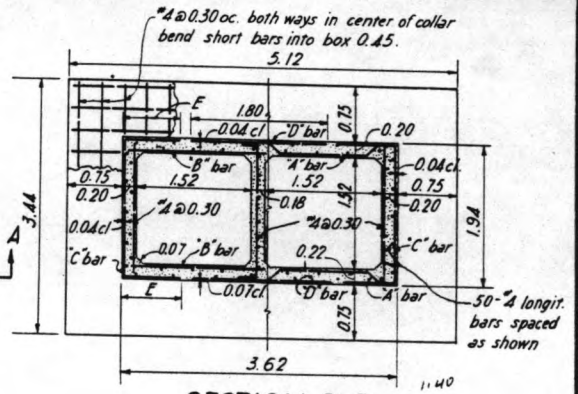
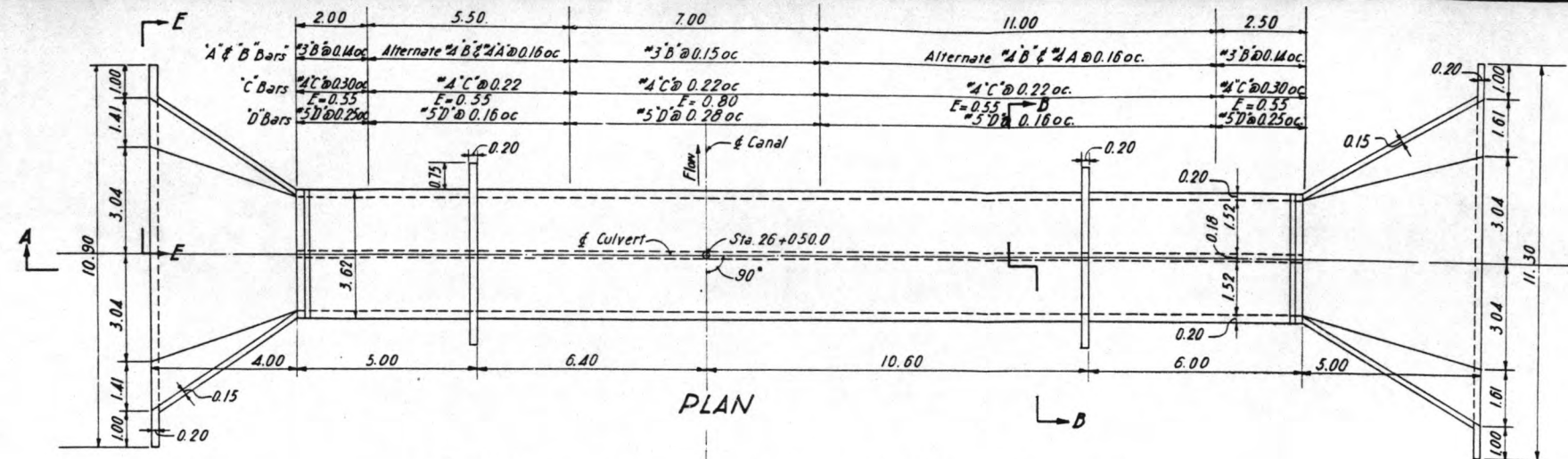
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

WADI ZIGLAB CROSSING

APPROVED: [Redacted]

AMMAN, JORDAN DATE 1-9-1958 DWG. No. EGC/111

Prepared under the supervision of
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ESTIMATED QUANTITIES

Concrete 83.8 C.M.

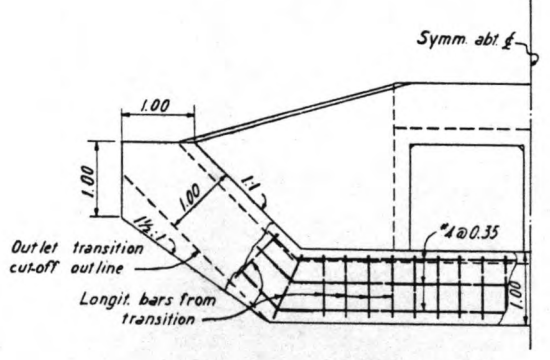
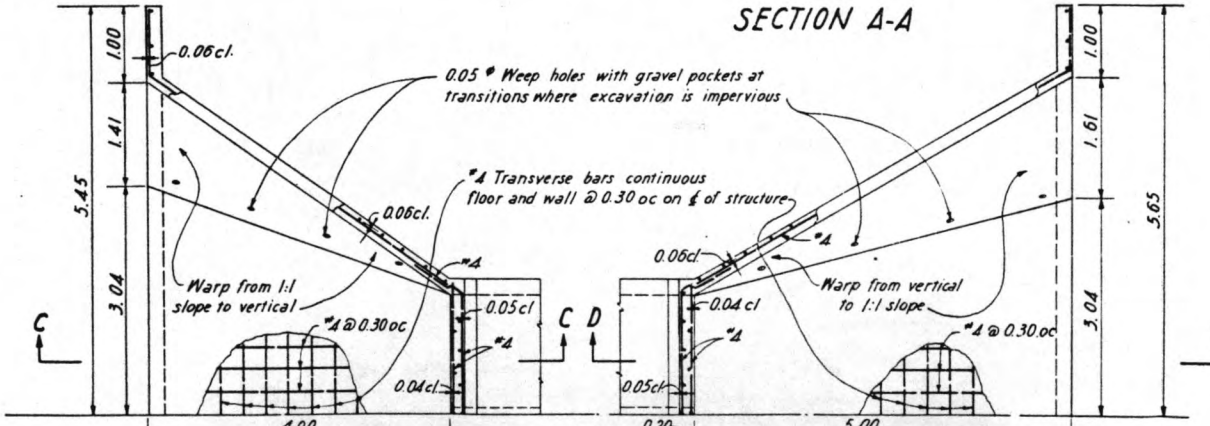
Reinforcement steel 6.15 MT.

REFERENCE DRAWINGS

Standard Details EGC/98

Plan and profile EGC/25

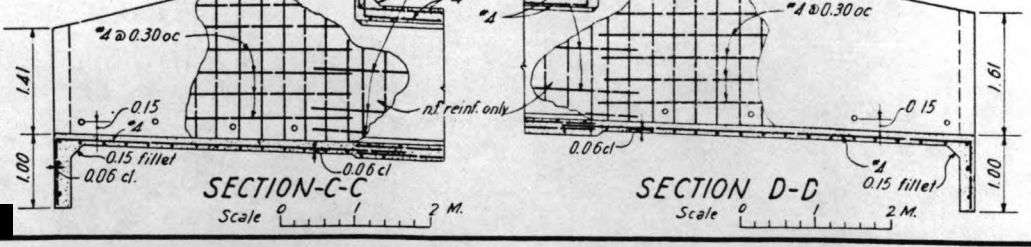
- NOTES:**
1. Clear cover for reinforcement is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Concrete design based on a compressive strength of 210 kg. per sq. cm.



Scale: 0 to 4 M

Except as noted

By	Date	Chkd	Date
Drn.	3.1.58	W.F.	3.1.58
Drwn.	3.1.58	W.F.	3.1.58
Trac.			
Sub.			



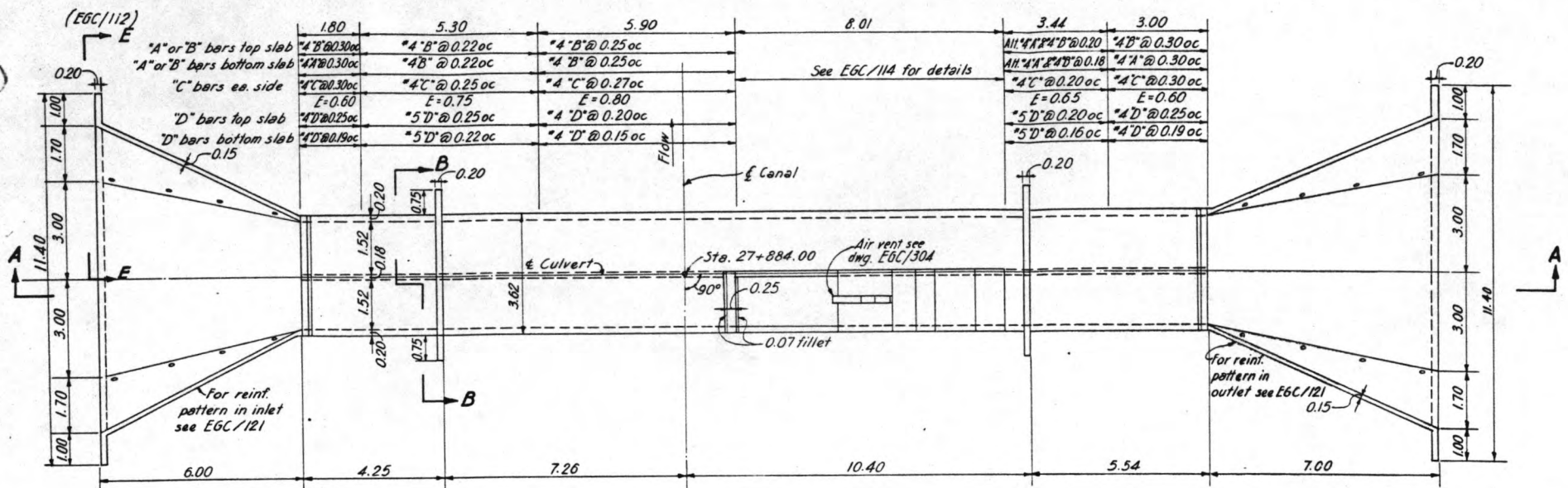
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

WADI DABAR CROSSING
DOUBLE BARREL CULVERT

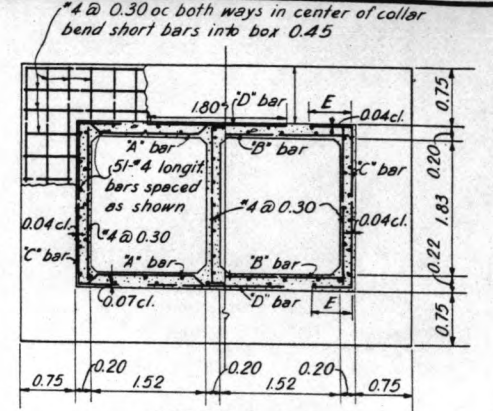
APPROVED: [Redacted]

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/112

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

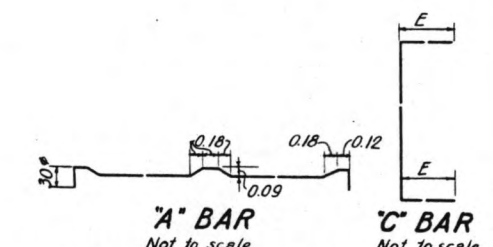


PLAN



SECTION B-B

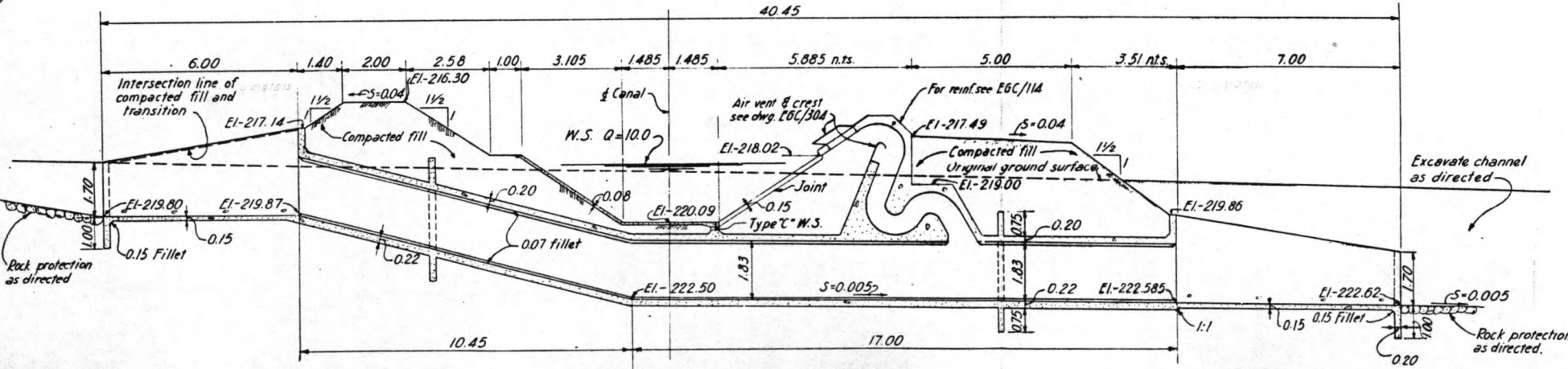
See plan for size & spacing of 'A', 'B', 'C' & 'D' bars
Scale 1:2 M.



ESTIMATED QUANTITIES:
 Concrete 113.3 C.M.
 Reinforcement steel 7.38 M.T.
 Miscellaneous metals 0.41 M.T.

REFERENCE DRAWINGS:
 Work this drawing with EGC/112, 114 & 121
 Standard Details EGC/98
 Plan & Profile EGC/27
 Miscellaneous Metals EGC/304

NOTES:
 1. Clear cover for reinforcement is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Concrete design based on a compressive strength of 210 kg per sq. cm.



SECTION A-A

Scale 1:4 M.
 Except as noted

By	Date	Chkd	Date
Dsn.	1/7 28.50	M.E.S.	3.8.50
Drwn.	1/5 30.7.50	M.E.S.	28.8.50
Trac.			
Sub.			

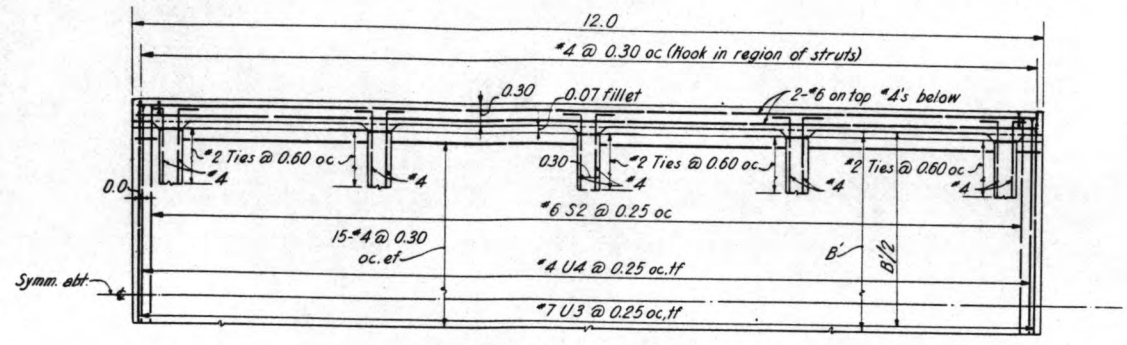
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

WADI EL-HAMME CROSSING
 DOUBLE BARREL CULVERT
 AND SIPHON SPILLWAY SHEET 1

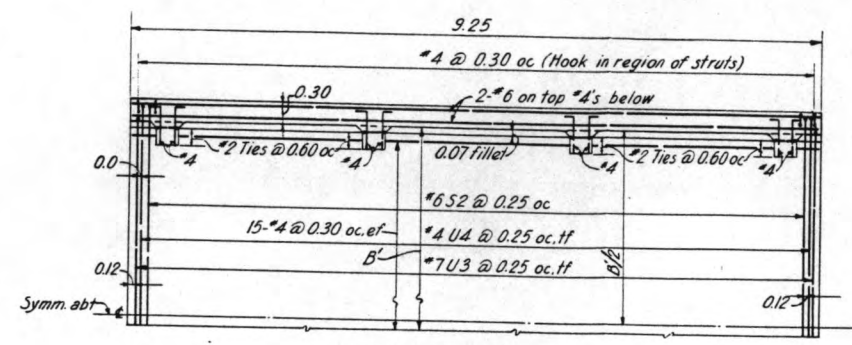
APPROVED: [Signature]

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/113

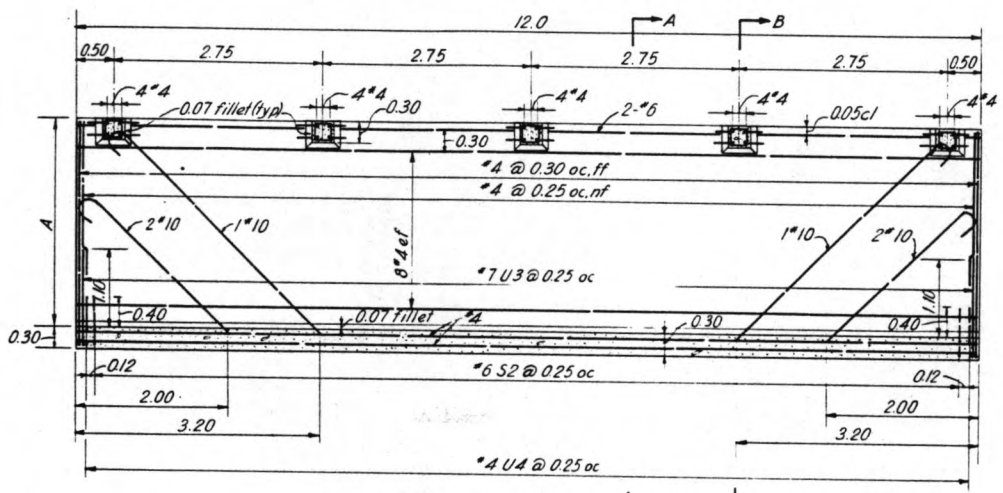
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.



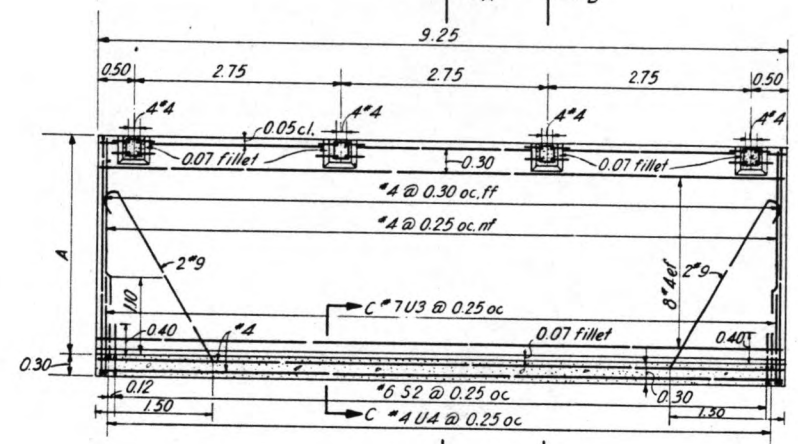
PLAN - FLUME
(12.0 monolith)



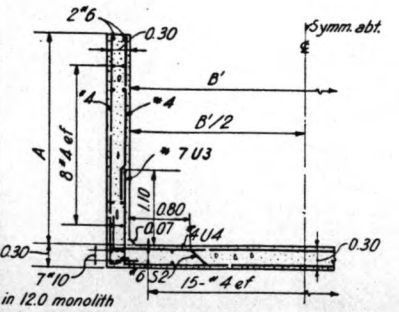
PLAN - FLUME
(9.25 monolith)



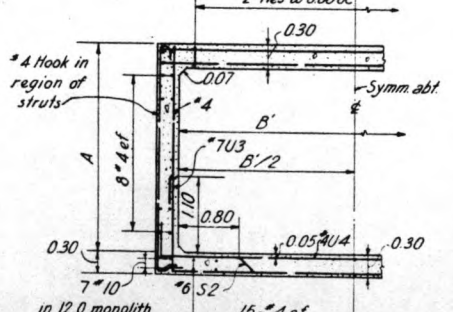
ELEVATION - FLUME
(12.0 monolith)



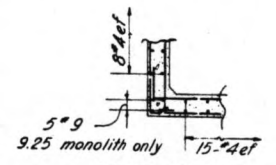
ELEVATION - FLUME
(9.25 monolith)



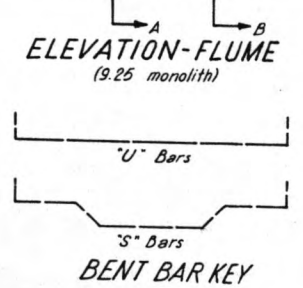
SECTION A-A



SECTION B-B



SECTION C-C



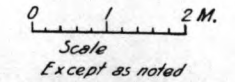
BENT BAR KEY

SCHEDULE

WADI	DWG No.	STA. I	EL. I	STA. O	EL. O	A	B	B'	C	D
El Yabis	EGC/117	37+339.17	-221.78	37+473.17	-221.86	2.80	2.97	4.66	2.59	1.77
Abu Kharrub	EGC/120	46+985.50	-224.09	47+035.50	-224.14	2.75	2.97	4.48	2.53	1.77
Kufringe	EGC/122	53+984.91	-225.40	54+056.16	-225.45	2.69	2.97	4.33	2.46	1.77

REFERENCE DRAWINGS:
Work this drawing with EGC/105 & 106
Standard Details EGC/98
Plan & Profile EGC/32-40

- NOTE:
1. Clear cover for reinf. is:
surfaces subject to submersion 0.05
concrete surfaces on soil 0.07
other surfaces 0.04
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Fillet in flume invert to be chamfered at junction with transition.
 5. For transition and abutment drawings see EGC/105 and EGC/106, key dimensions given in schedule.
 6. Transition to be placed on undisturbed natural foundation or thoroughly compacted backfill.
 7. Concrete design based on a compressive strength of 210 Kg. per sq. cm.
 8. Quantities for flume & transitions are shown on wadi crossing drawings.



HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

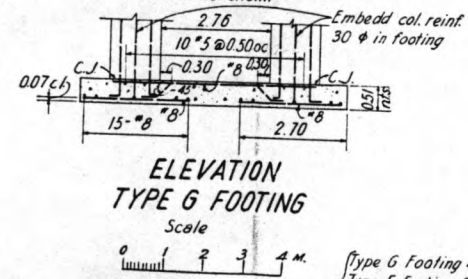
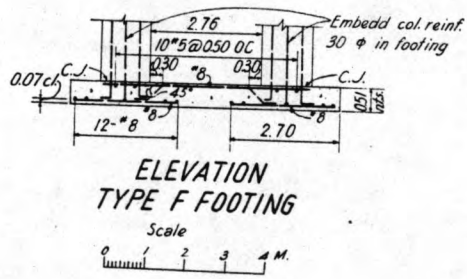
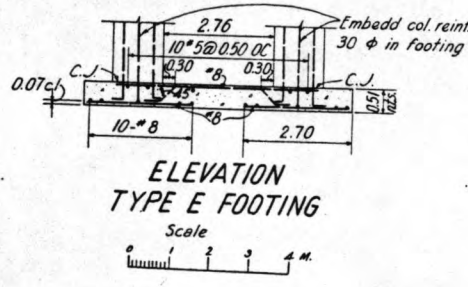
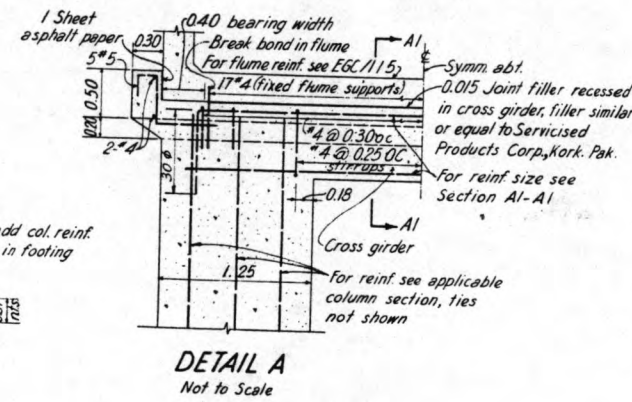
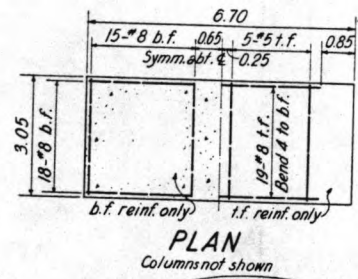
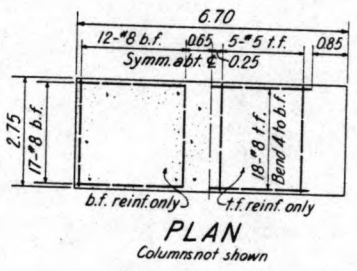
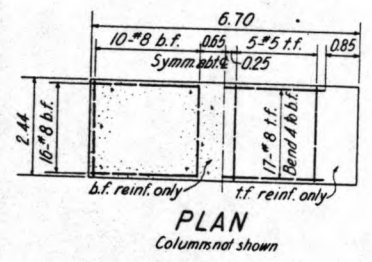
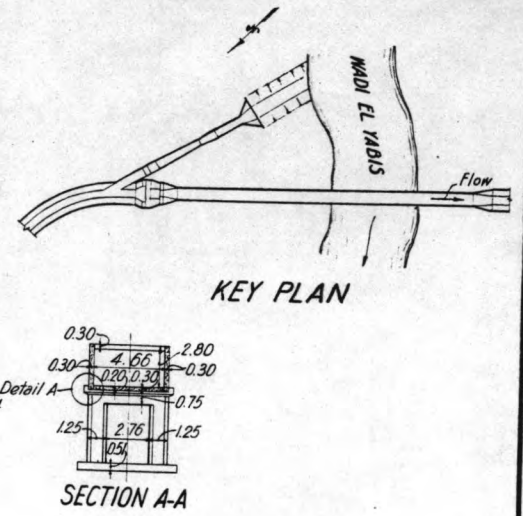
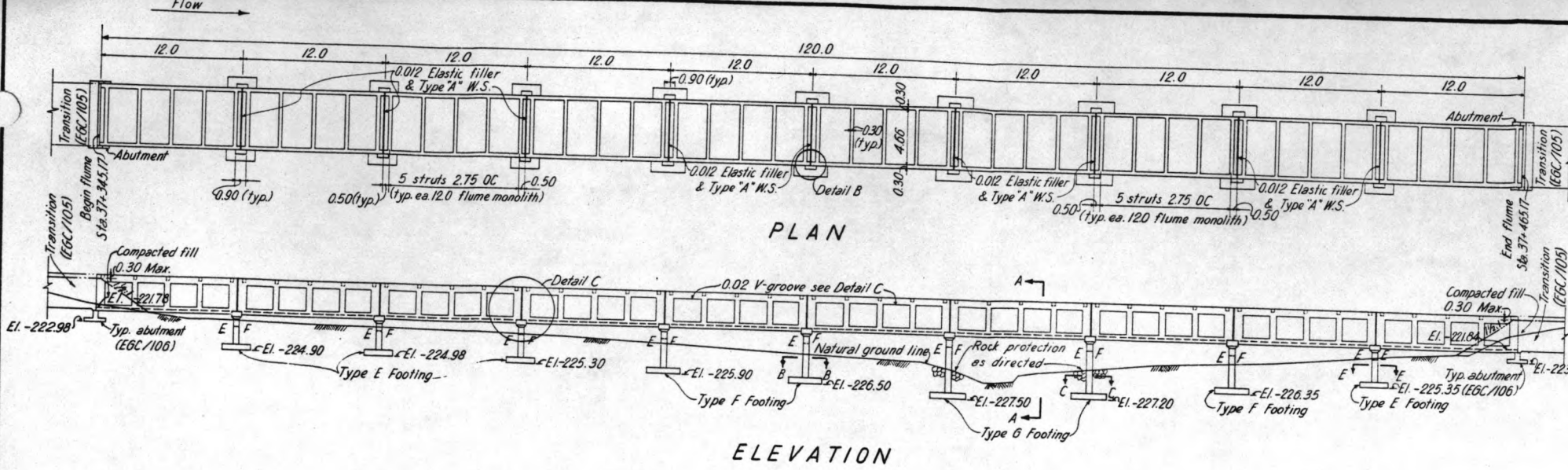
FLUME FOR 17-15 CUMEC'S CAPACITY

APPROVED: [Redacted]

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/115

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

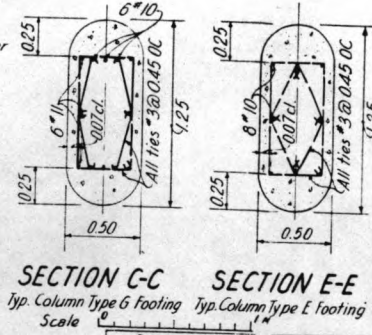
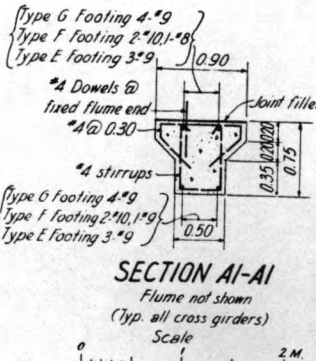
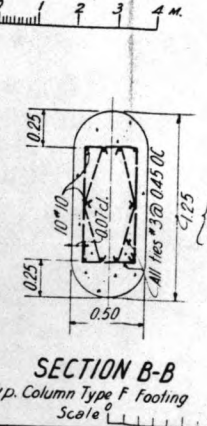
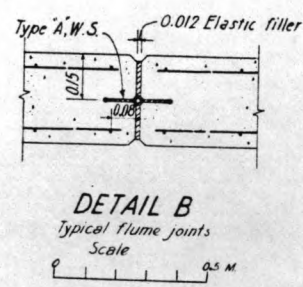
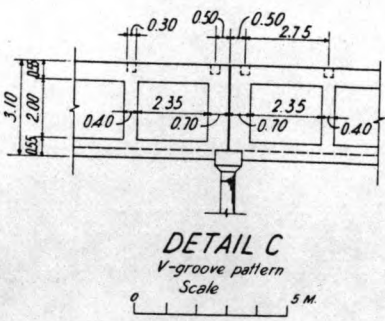
By	Date	Chkd	Date
Den.	12.4.54	MM	12.7.54
Drwn.	12.7.54	MM	12.7.54
Trac.			
Sub.			



ESTIMATED QUANTITIES:
 Concrete 588 C.M.
 Reinforcement steel 74.55 MT.

REFERENCE DRAWINGS:
 Work this drawing with EGC/105, 106 & 115
 Standard Details EGC/98
 Plan & Profile EGC/32

- NOTES:**
1. Clear cover for reinforcement is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Elastic joint filler shall be securely fastened to one face of concrete.
 5. Estimated Quantities are for transitions flume & substructure.
 6. Concrete design based on a compressive strength of 210 kg. per sq. cm.



Scale 0 5 10 M
 Except as noted

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

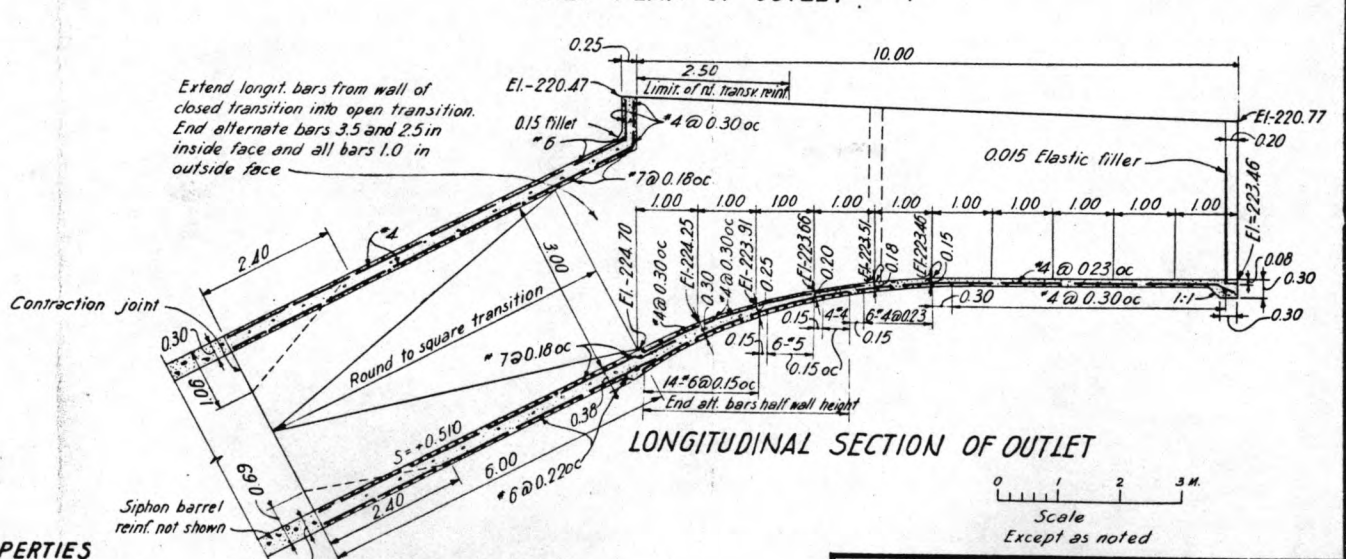
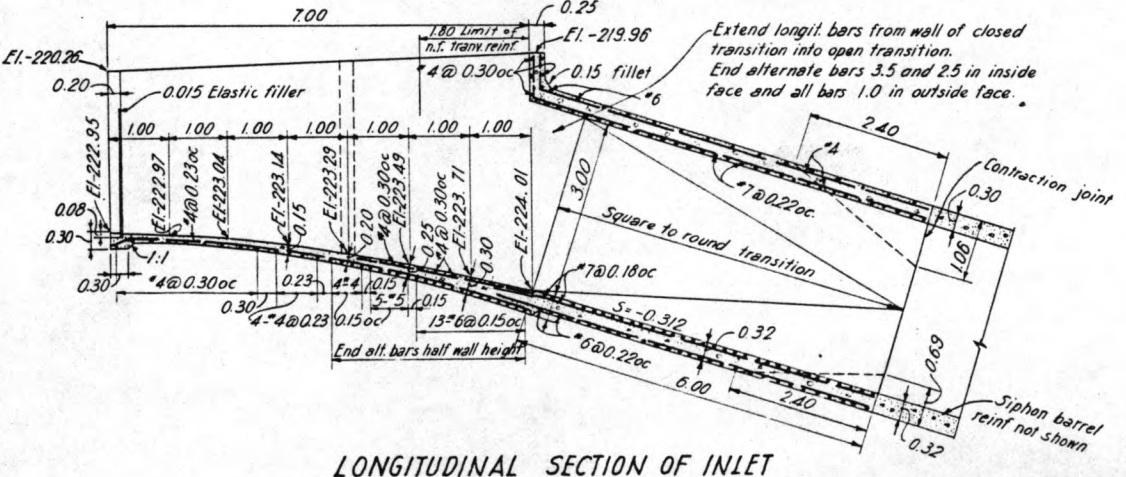
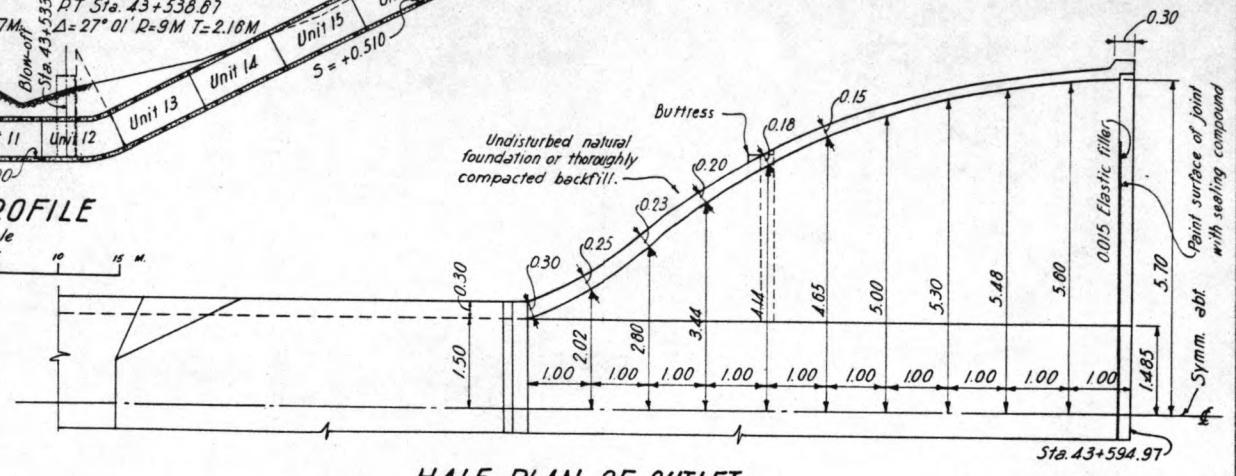
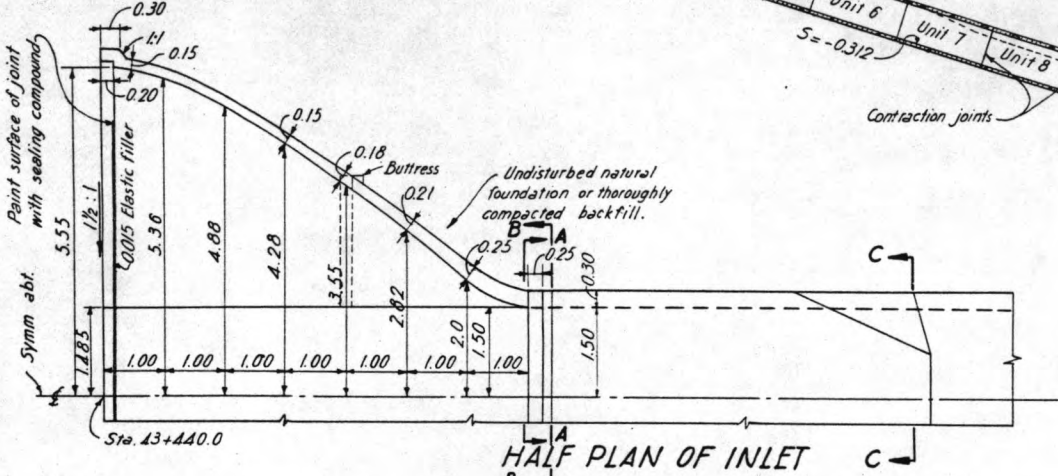
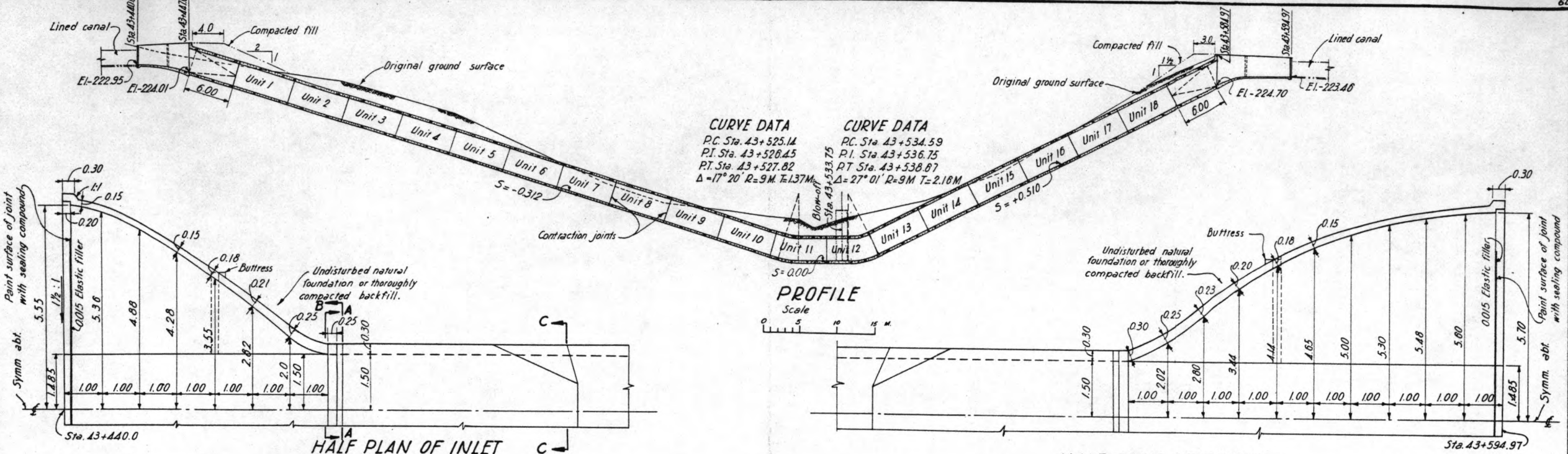
WADI EL-YABIS CROSSING

APPROVED: _____

Prepared under the supervision of
MICHAEL BAKER, JR., INC. & HARZA ENGINEERING CO.

AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. EGC/117

By	Date	Chkd	Date
Dsn.	M.S.	12.5.58	M.S.
Drwn.	M.S.	12.5.58	M.S.
Trac.			
Sub.			



HYDRAULIC PROPERTIES

SECTION	A	V	Q	r	n	s
Canal	9.96	1.00	10.0	1.00	0.014	0.00018
Siphon	7.06	1.42	10.0	0.75	0.014	0.000584
Siphon future	7.06	2.27	16.0	0.75	0.014	0.00149

NOTES:
 See EGC/119

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

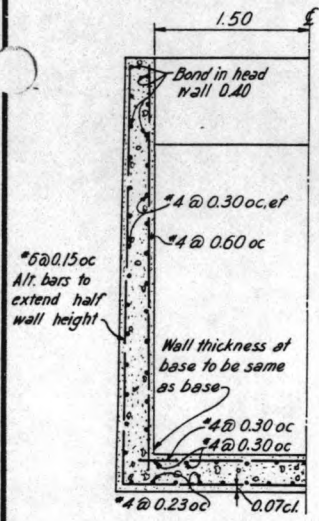
SIPHON
WADI EL-QARN CROSSING
SHEET 1

APPROVED: [Signature]

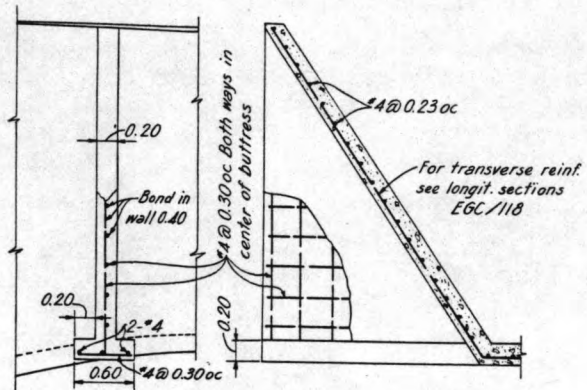
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/118

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

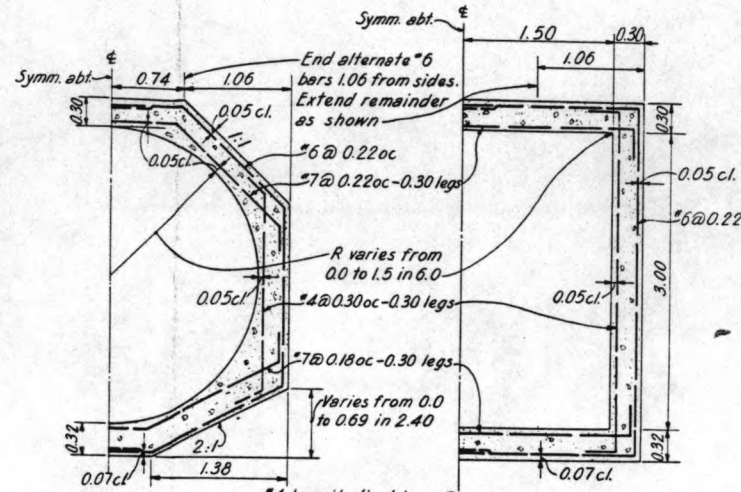
By	Date	Chkd	Date
Dsn.	24-7-58		
Drwn.	H.H.B. 7/11/58		
Troc.			
Sub			



SECTION A-A
(Outlet similar)

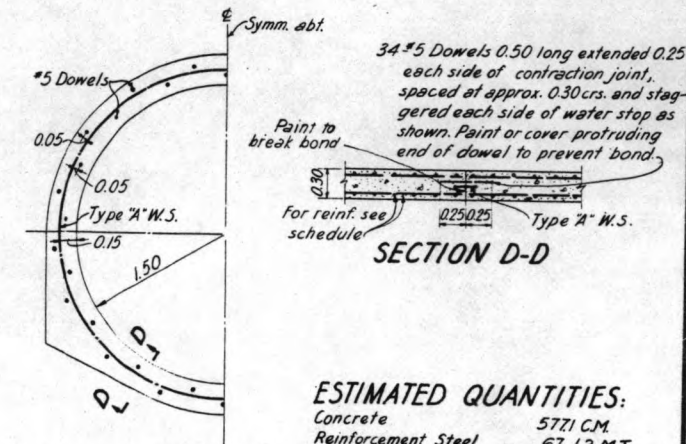


TYPICAL BUTTRESS DETAIL



SECTION C-C
(Normal)

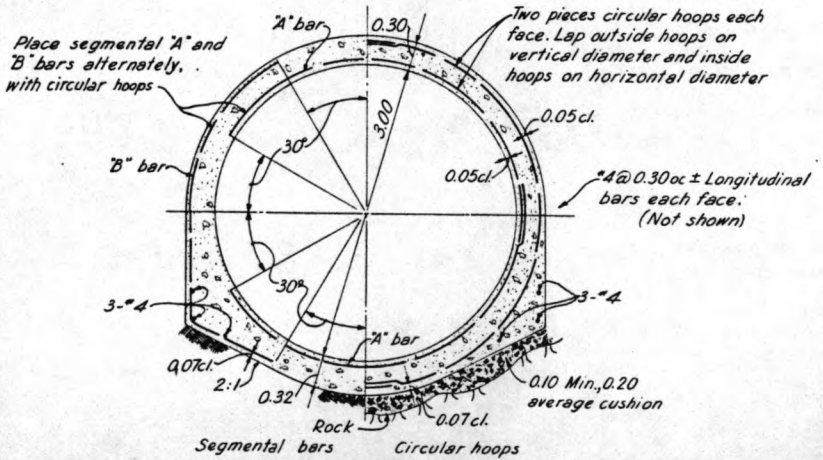
SECTION B-B
(Normal)



SECTION D-D

ESTIMATED QUANTITIES:
 Concrete 5771 C.M.
 Reinforcement Steel 67.12 M.T.
REFERENCE DRAWINGS:
 Standard Details EGC/98
 Plan & Profile EGC/35
 Miscellaneous Metals EGC/302

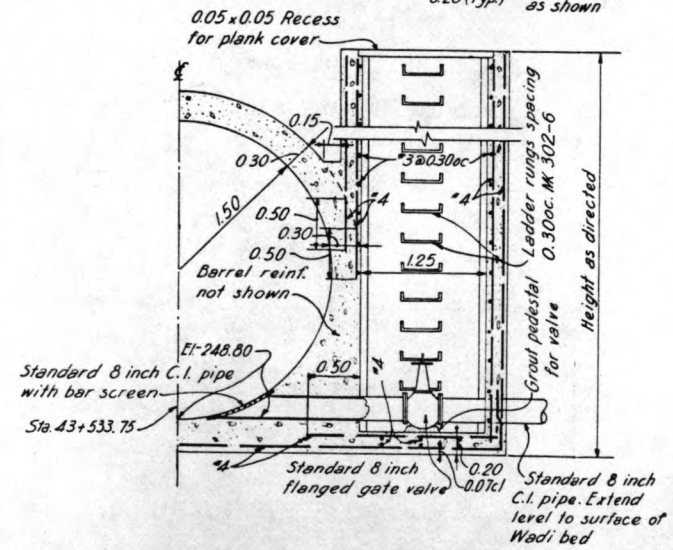
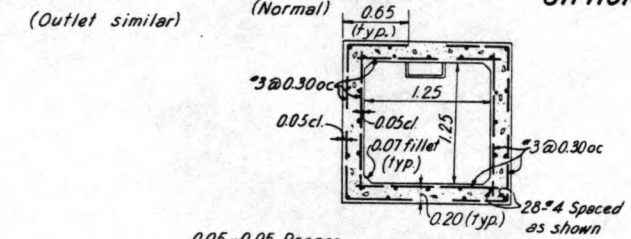
- NOTES:**
1. Clear cover for reinforcement adjacent to surface placed against ground is 0.07, otherwise all clear cover is 0.05.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Elastic joint filler to be securely fastened to one face of concrete.
 5. Stations, elevations and radii shown on profile refer to invert, unless otherwise noted.
 6. Space transverse reinforcement in barrel along inside longitudinal bars and on longer arc of vertical curves.
 7. Backfill to natural ground surface or to a normal depth of 1.0 along siphon barrel as directed.
 8. Base of entire structure to be placed on undisturbed natural foundation or thoroughly compacted fill.
 9. Provide cushion (0.10 min., 0.20 average thickness) of compacted backfill of selected material as directed wherever rock foundation is encountered.
 10. Thickness of concrete to vary uniformly between dimensions shown.
 11. Concrete design based on a compressive strength of 210 Kg. per sq. cm.



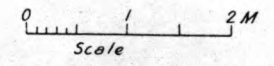
TYPICAL BARREL SECTION

**SCHEDULE
BARREL REINFORCEMENT**

UNIT NO.	Invert Length	"A" Bars			
		Circular Hoops	Crown	Invert	"B" Bars
1	7.46	*5 @ 0.30	*5 @ 0.30	*6 @ 0.30	*5 @ 0.30
2	7.46	*5 @ 0.28	*7 @ 0.28	*8 @ 0.28	*7 @ 0.28
3	7.46	*5 @ 0.28	*7 @ 0.28	*8 @ 0.28	*7 @ 0.28
4	7.46	*5 @ 0.26	*7 @ 0.26	*8 @ 0.26	*7 @ 0.26
5	7.46	*5 @ 0.26	*7 @ 0.26	*8 @ 0.26	*7 @ 0.26
6	7.46	*6 @ 0.26	*7 @ 0.26	*7 @ 0.26	*7 @ 0.26
7	7.46	*6 @ 0.26	*7 @ 0.26	*7 @ 0.26	*7 @ 0.26
8	7.46	*7 @ 0.25	*7 @ 0.25	*8 @ 0.25	*7 @ 0.25
9	7.46	*7 @ 0.25	*7 @ 0.25	*8 @ 0.25	*7 @ 0.25
10	7.46	*8 @ 0.23	*8 @ 0.23	*9 @ 0.23	*8 @ 0.23
11	7.33	*8 @ 0.23	*8 @ 0.23	*9 @ 0.23	*8 @ 0.23
12	7.54	*8 @ 0.23	*8 @ 0.23	*9 @ 0.23	*8 @ 0.23
13	7.46	*8 @ 0.23	*8 @ 0.23	*9 @ 0.23	*8 @ 0.23
14	7.46	*7 @ 0.25	*7 @ 0.25	*8 @ 0.25	*7 @ 0.25
15	7.46	*6 @ 0.26	*7 @ 0.26	*7 @ 0.26	*7 @ 0.26
16	7.46	*5 @ 0.26	*7 @ 0.26	*8 @ 0.26	*7 @ 0.26
17	7.46	*5 @ 0.26	*7 @ 0.26	*8 @ 0.26	*7 @ 0.26
18	7.46	*5 @ 0.28	*7 @ 0.28	*8 @ 0.28	*7 @ 0.28



DETAIL OF BLOW OFF



By	Date	Chkd	Date
Den.	27-7-58	113	7-8-58
Drwn.	27-7-58	113	7-8-58
Trac.	27-7-58	113	7-8-58
Sub.			

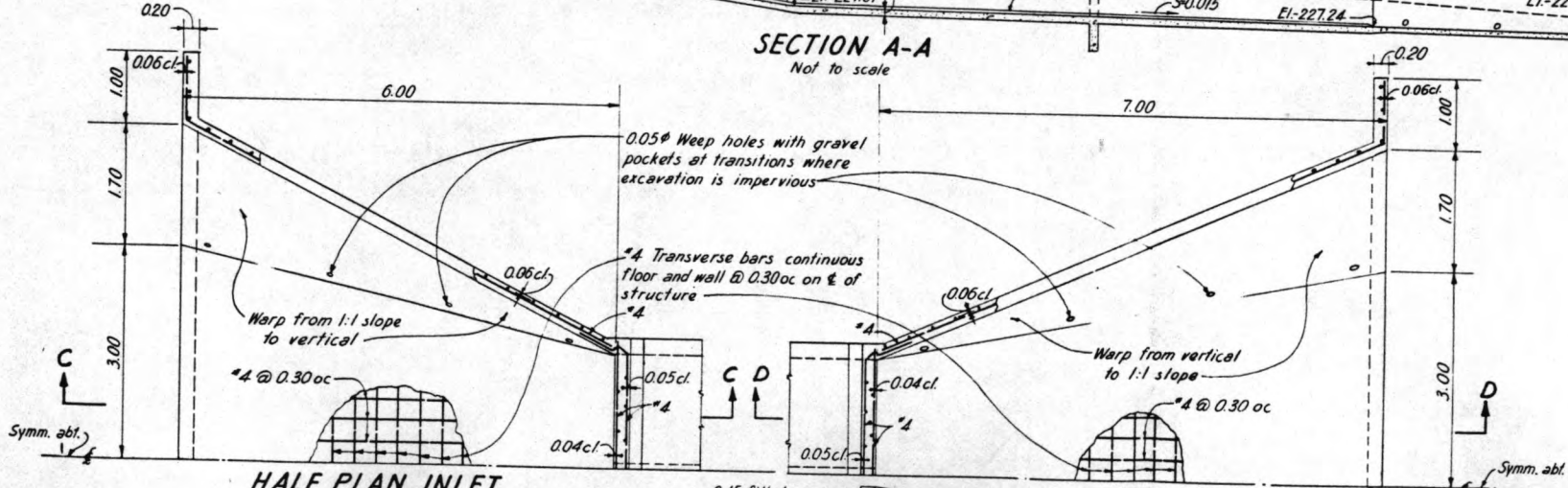
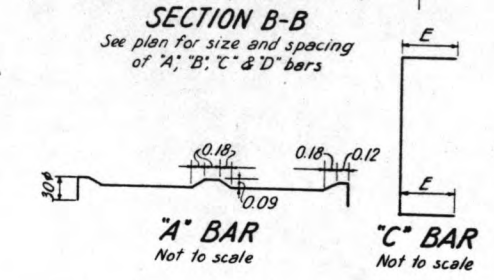
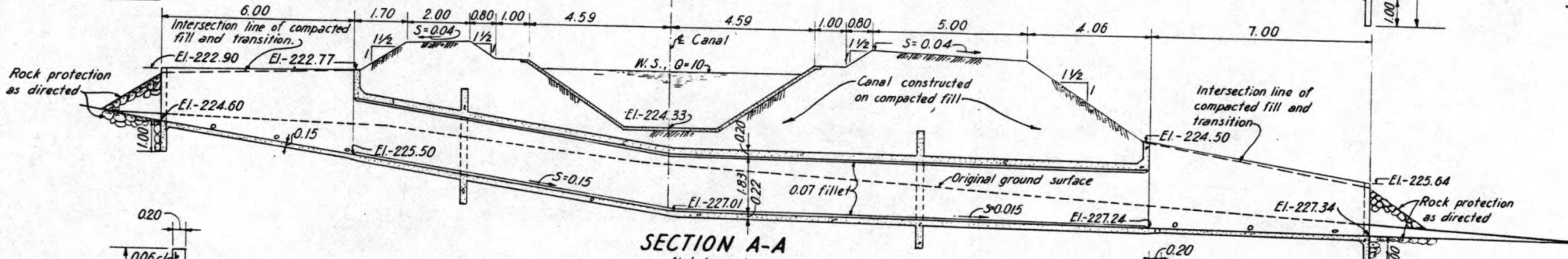
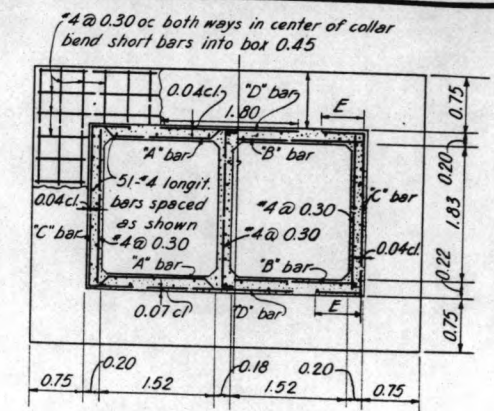
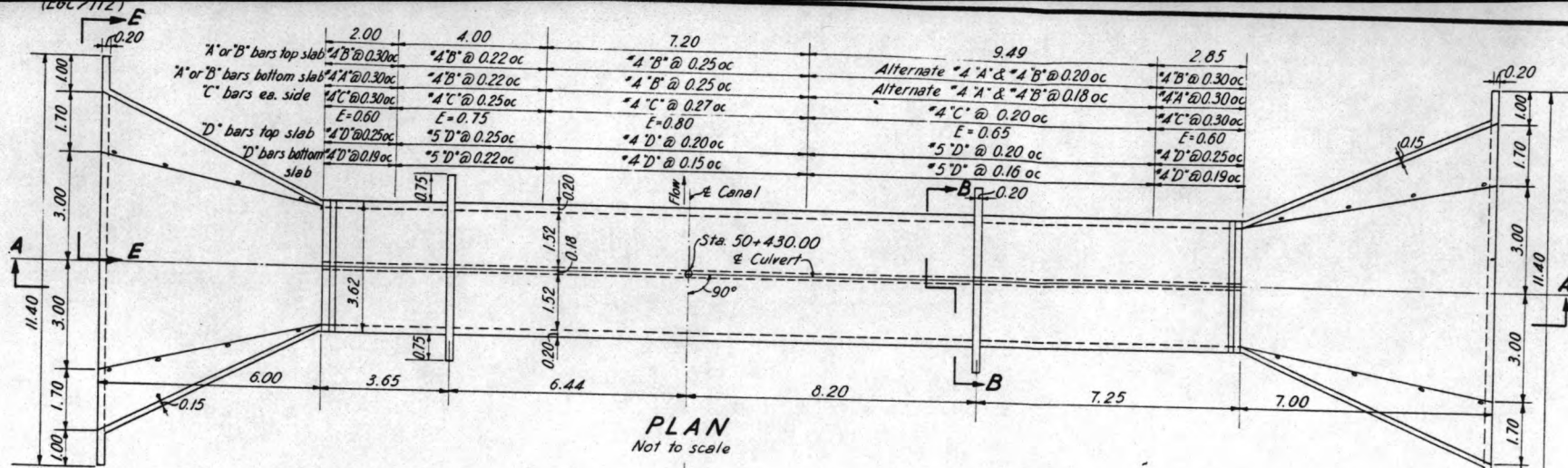
Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

SIPHON
 WADI EL-QARN CROSSING
 SHEET 2

APPROVED: [Signature]

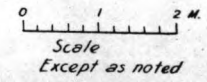
AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. EGC/119



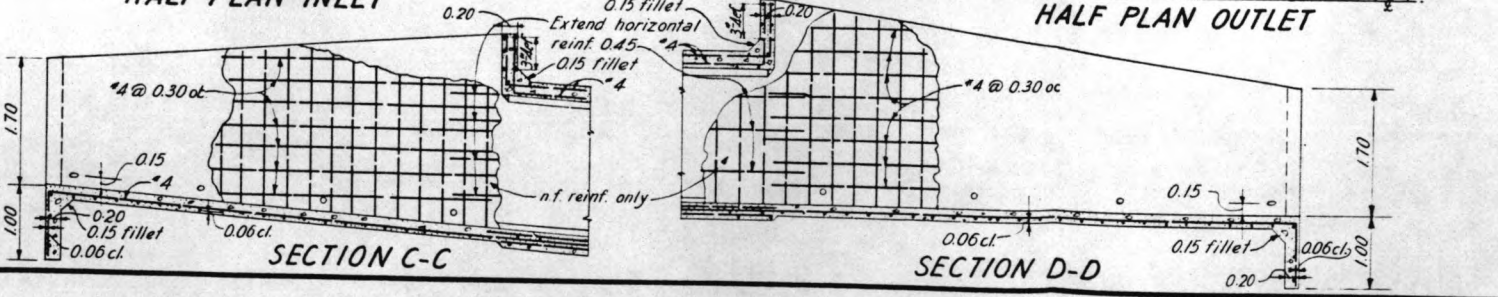
ESTIMATED QUANTITIES:
Concrete 95.7 C.M.
Reinforcement steel 5.47 M.T.

REFERENCE DRAWINGS:
Work this drawing with EGC/112
Standard Details EGC/98
Plan & Profile EGC/38

NOTES:
1. Clear cover for reinforcement is 0.05 unless otherwise noted.
2. Lap all bars 30 diameters at splices.
3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
4. Concrete design based on a compressive strength of 210 Kg. per sq. cm.



By	Date	Chkd	Date
Dsn	WES 8.7.58	MM	11.2.58
Drwn.	1.8.58	MM	12.8.58
Trac.			
Sub			



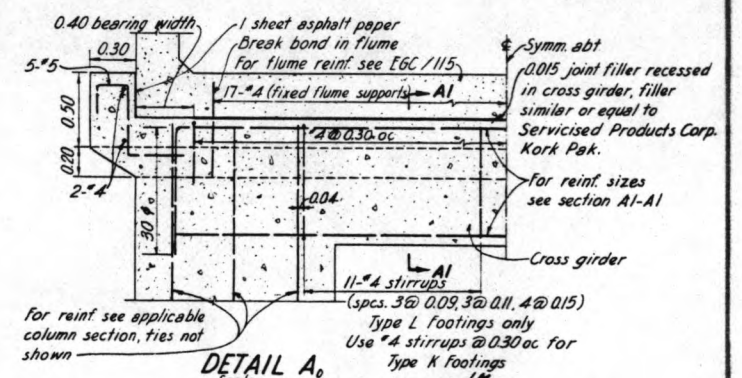
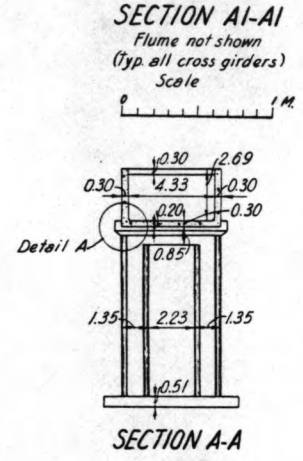
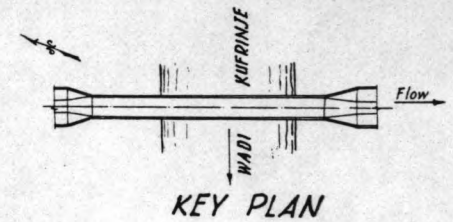
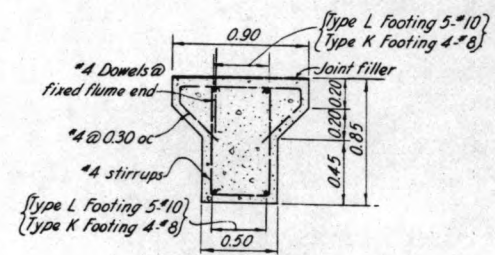
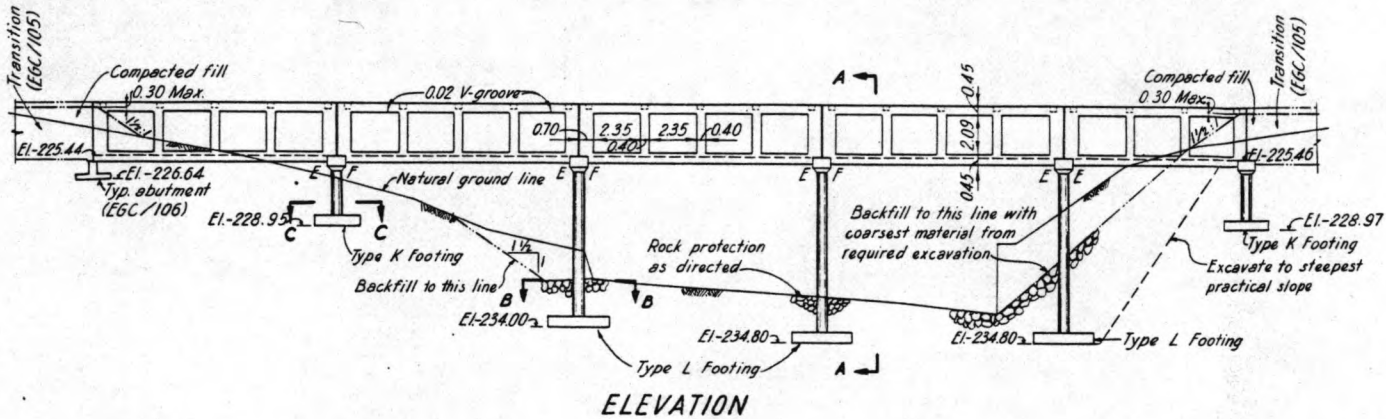
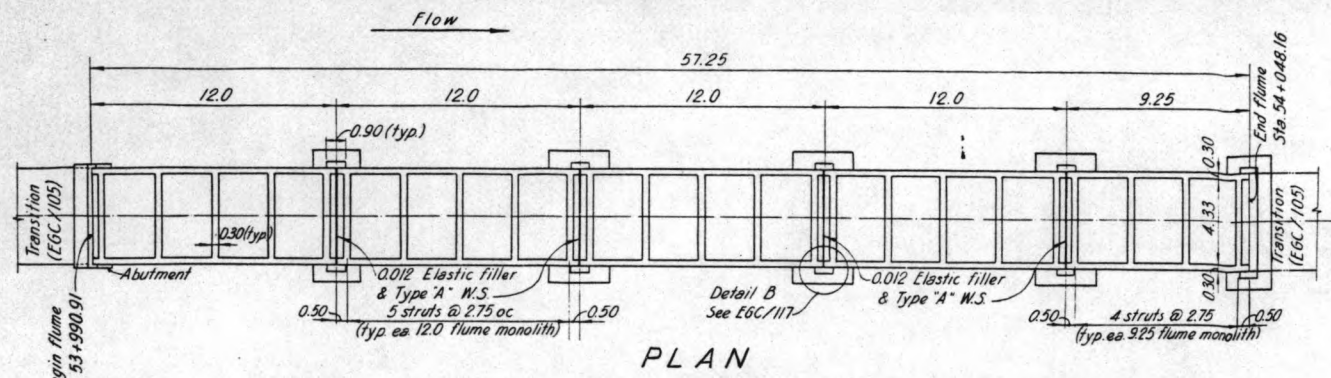
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

WADI ES-SARAR CROSSING
DOUBLE BARREL CULVERT

APPROVED

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/121



ESTIMATED QUANTITIES

Concrete 234.8 C.M.

Reinforcement Steel 33.49 M.T.

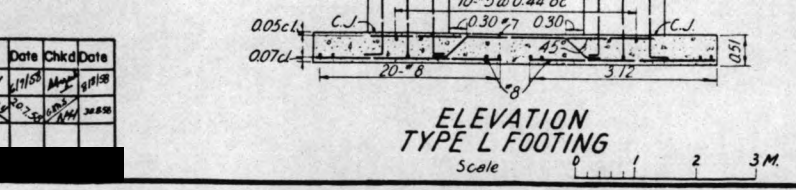
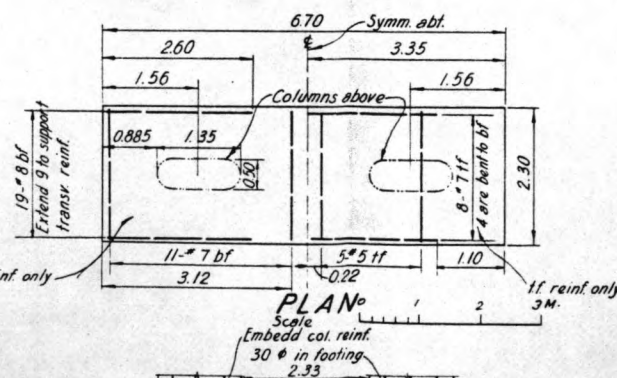
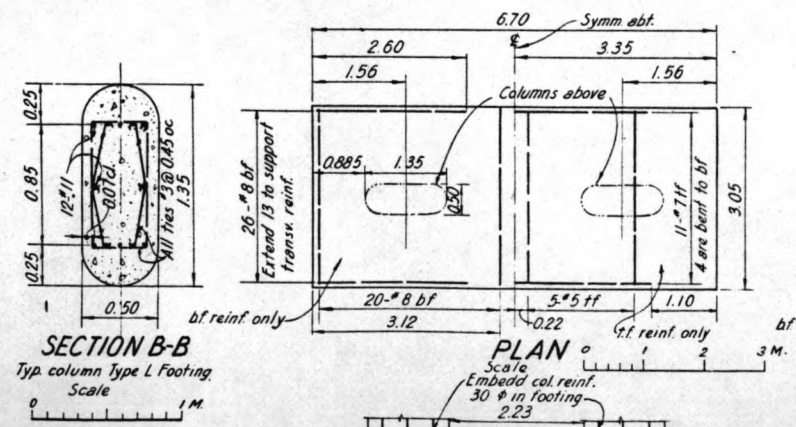
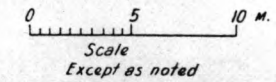
REFERENCE DRAWINGS

Work this drawing with EGC/105, 106 & 115

Standard Details EGC/98

Plan & Profile EGC/40

- NOTES:**
1. Clear cover for reinforcement is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Elastic joint filler shall be securely fastened to one face of concrete.
 5. Estimated Quantities are for transitions flume & substructure.
 6. Concrete design based on a compressive strength of 210 Kg. per sq. cm.



By	Date	Chkd	Date
Den.	MAY 11/51	MAY 11/51	
Drwn.	MAY 11/51	MAY 11/51	
Sub.			

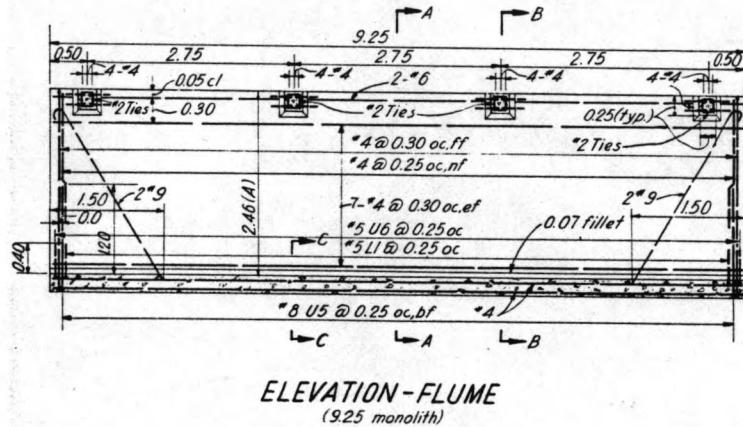
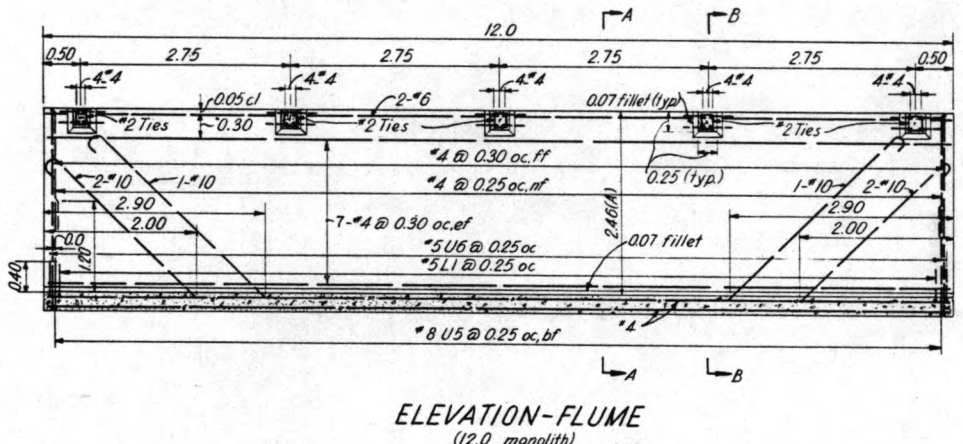
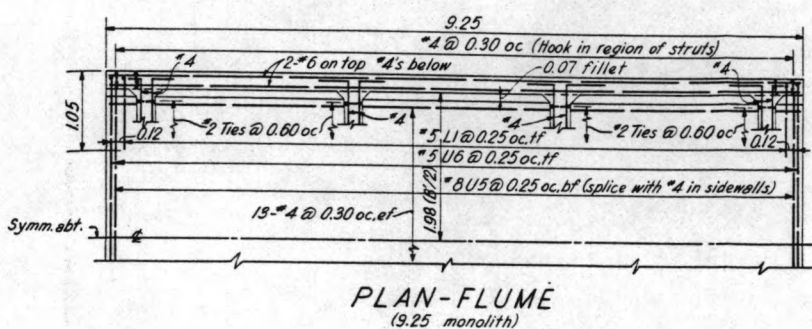
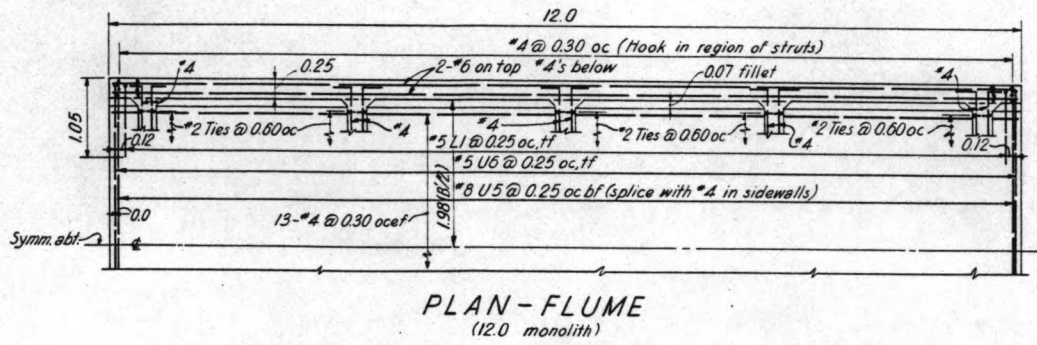
Prepared under the supervision of
MICHAEL BAKER, JR. J.N.C. &
HARZA ENGINEERING CO.

HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

WADI KUFRIJJE CROSSING

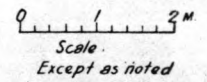
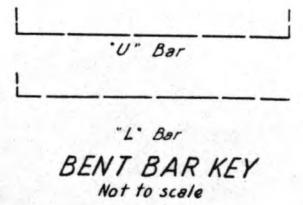
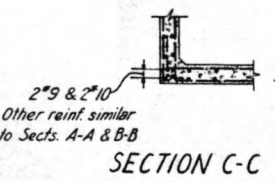
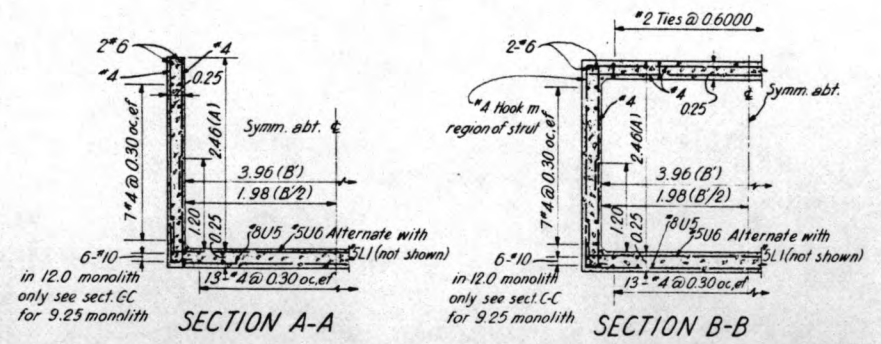
APPROVED: [Signature]

AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. EGC/122



REFERENCE DRAWINGS:
 Work this drawing with EGC/105 & EGC/106.
 Standard Details EGC/98
 Plan & Profile EGC/42&45

- NOTES:**
- Clear cover for reinf. is:
 surfaces subject to submersion 0.05
 concrete surfaces on soil 0.07
 other surfaces 0.04
 - Lap all bars 30 diameters at splices.
 - All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 - Fillet in flume invert to be chamfered at junction with transition.
 - For transition and abutment drawings see EGC/105 and EGC/106, key dimensions given in schedule.
 - Transition to be placed on undisturbed natural foundation or thoroughly compacted backfill.
 - Concrete design based on a compressive strength of 210 Kg per sq. cm.
 - Quantities for flume and transitions are shown on wadi crossing drawings.



SCHEDULE

WADI	DWG. No	STA. I	EL. I	STA. O	EL. O	A	B	B'	C	D
Wadi Rajib	EGC/128	58+082.25	-226.19	58+177.50	-226.27	2.46	2.97	3.96	2.33	1.77
Wadi El Khor	EGC/129	62+848.00	-227.11	62+982.00	-227.20	2.46	2.97	3.96	2.33	1.77
* Wadi Abu Mheirah	EGC/130	* 3+190.75	-241.57	* 3+286.00	-241.67	2.46	2.97	3.96	2.33	1.77

* Capacity to be 12 cumecs, but flume dimensions to correspond to 13 cumecs flume.
 * East Ghor Main Canal-South-

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

FLUME FOR 13 CUMEC'S CAPACITY

APPROVED: [Signature]

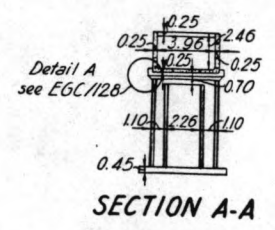
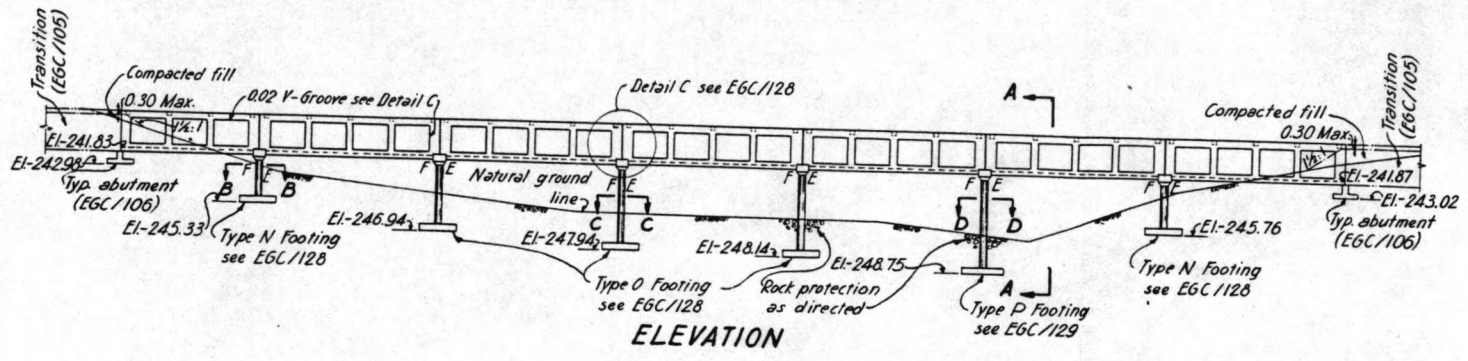
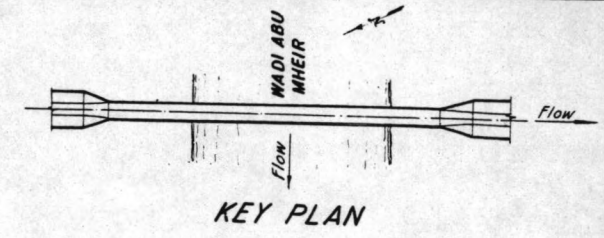
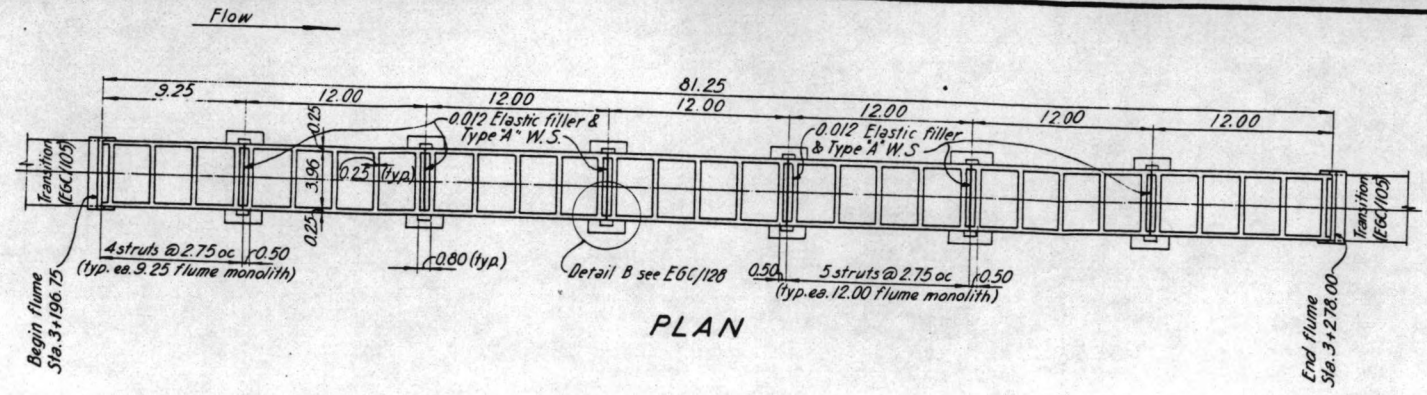
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN

DATE: 1-9-1958

DWG. NO. EGC/125

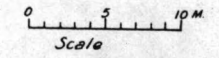
By	Date	Chk	Date
Den.	3-5-58	NY	2/5/58
Drwn.	6-7-58	NY	2/7/58
Trac.			
Sub.			



ESTIMATED QUANTITIES:
 Concrete 312.3 C.M.
 Reinforcement Steel 41.15 M.T.

REFERENCE DRAWINGS:
 Work this drawing with EGC/105, 106, 125, 128 & 129.
 Standard Details EGC/98.
 Plan & Profile EGC/48.

- NOTES:**
1. Clear cover for reinforcement is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Elastic joint filler shall be securely fastened to one face of concrete.
 5. Estimated Quantities are for transitions, flume & substructure.
 6. Concrete design based on a compressive strength of 210 Kg. per sq. cm.



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

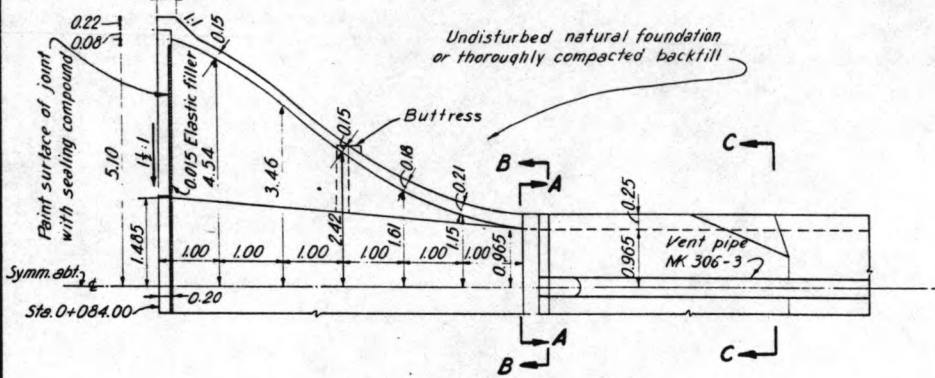
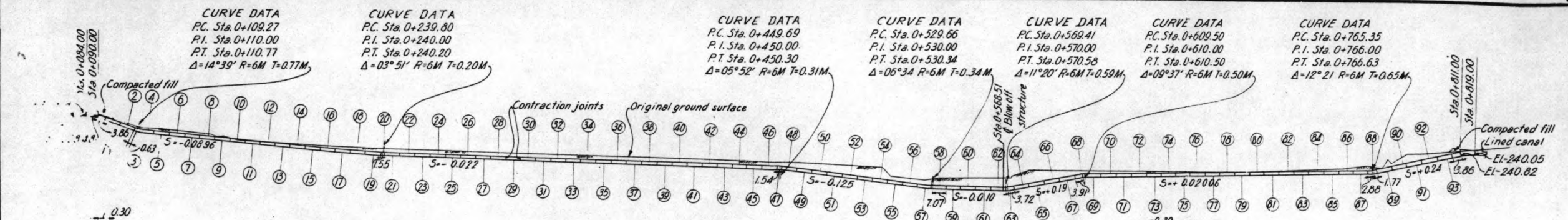
WADI ABU MHEIR CROSSING

APPROVED: [Redacted]

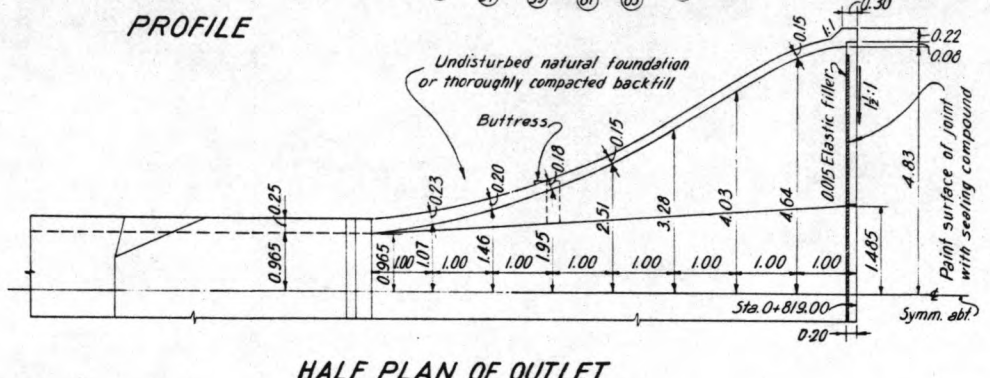
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC./130

Prepared under the supervision of
 MICHAEL BAKER, JR. INC. &
 HARZA ENGINEERING CO.

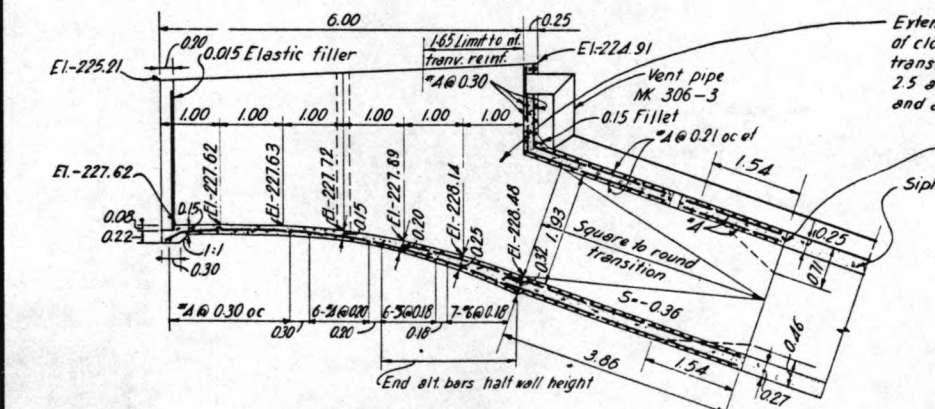
	By	Date	Chkd	Date
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Drwn.	[Signature]	10/15/58	[Signature]	10/15/58
Trac.				
Sub.				



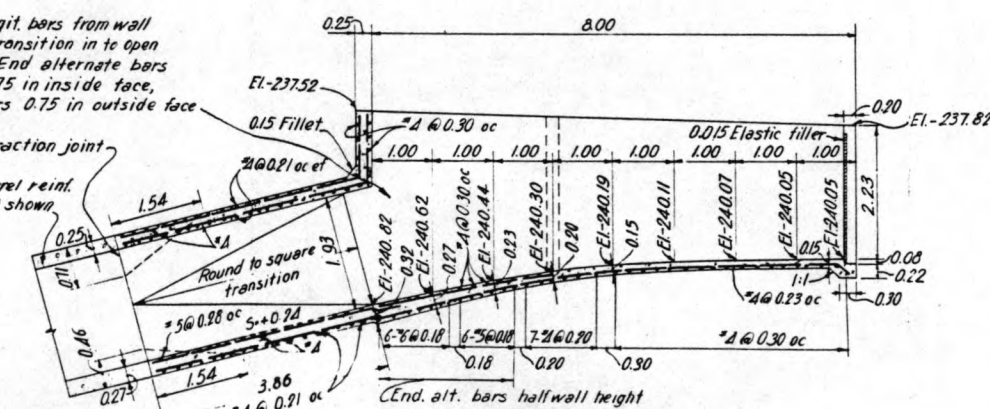
HALF PLAN OF INLET
Not to scale



HALF PLAN OF OUTLET
Not to scale



LONGITUDINAL SECTION OF INLET
Not to scale

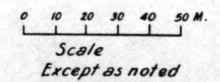


LONGITUDINAL SECTION OF OUTLET
Not to scale

ESTIMATED QUANTITIES:
 Concrete 1456 C.M.
 Reinforcement Steel 1020 M.T.
 Miscellaneous Metals 5 M.T.

REFERENCE DRAWINGS:
 Standard Details E6C/98
 Plan & Profile E6C/47
 Miscellaneous Metals E6C/302, 306.

- NOTES:**
1. Clear cover for reinforcement adjacent to surface placed against ground is 0.07 otherwise all clear cover is 0.05 or as noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Elastic joint filler to be securely fastened to one face of concrete.
 5. Stations, elevations and radii shown on profile refer to invert, unless otherwise noted.
 6. Space transverse reinforcement in barrel along inside longitudinal bars and on longer arc of vertical curves.
 7. Backfill to natural ground surface or to a normal depth of 1.0 along siphon barrel as directed.
 8. Base of entire structure to be placed on undisturbed natural foundation or thoroughly compacted fill.
 9. Provide cushion (0.10 min., 0.20 average thickness) of compacted backfill of selected material as directed wherever rock foundation is encountered.
 10. Thickness of concrete to vary uniformly between dimensions shown.
 11. Concrete design based on a compressive strength of 210 Kg. per sq. cm.



HYDRAULIC PROPERTIES

SECTION	A	V	Q	T	n	S
Canal	9.96	1.00	10.0	1.0	0.014	0.00018
Siphon	7.78	3.60	10.0	0.48	0.014	0.0152
Siphon Future	7.78	4.32	12.0	0.48	0.014	0.01656

All dimensions in Meters

BY	Date	Chkd	Date
Dsn.	MES	WH/ES	1-9-58
Drwn.	MES	WH/ES	1-9-58
Trac.			
Sub.			

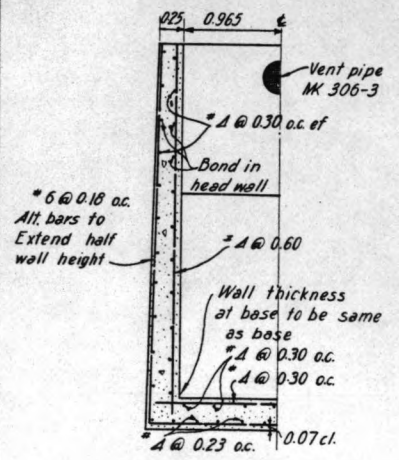
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

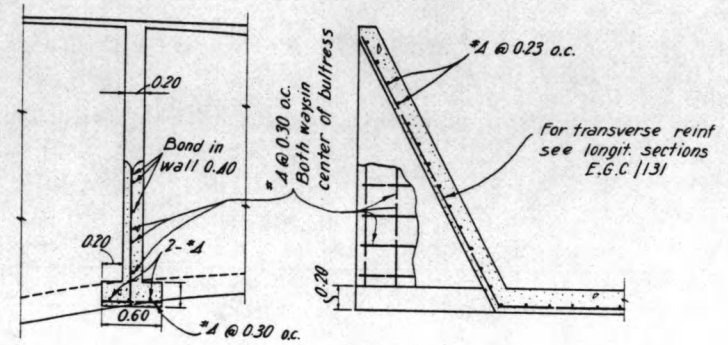
SIPHON
 ZARQA RIVER CROSSING
 SHEET 1

APPROVED

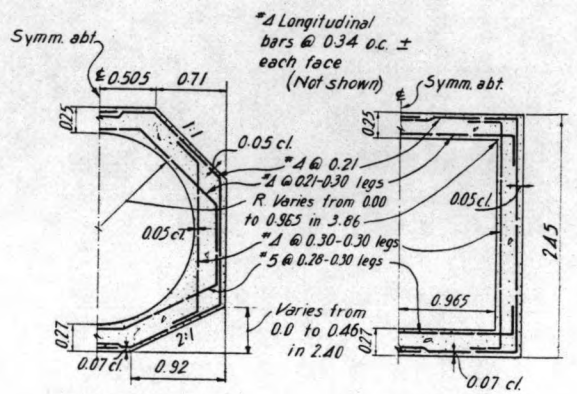
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/131



SECTION A-A
(Outlet similar)
(exclusive of vent pipe)

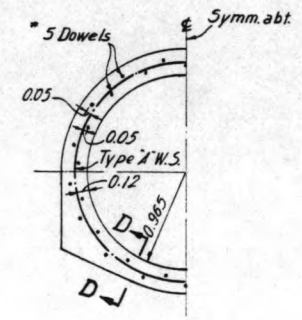


TYPICAL BUTTRESS DETAIL

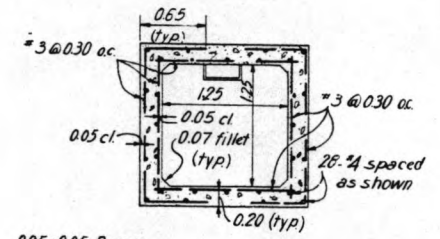


SECTION C-C
(Normal)

SECTION B-B
(Normal)



CONTRACTION JOINT SIPHON BARREL



3A-#5 Dowels 0.50 long extended 0.25 each side of contraction joint, spaced at approx. 0.30 crs. and staggered each side of water stop as shown. Paint or cover protruding end of dowel to prevent bond.

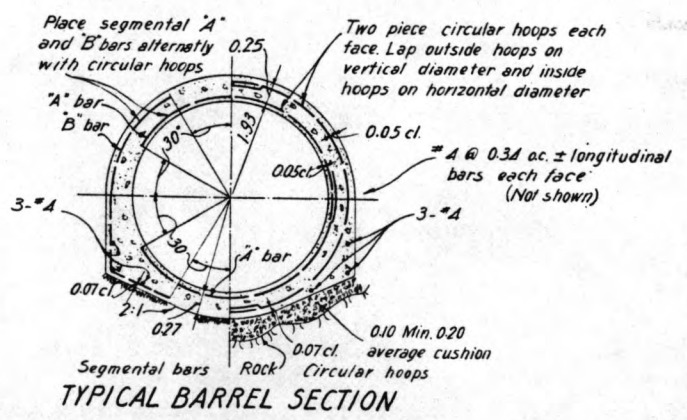
Paint to break bond

For reinf. see schedule

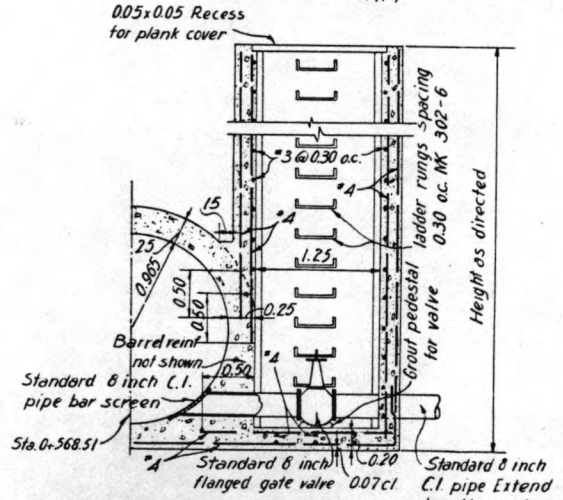
SECTION D-D

SCHEDULE BARREL REINFORCEMENT

Unit No.	Invert Length	Circular Hoops	A Bars		B Bars
			Crown	Invert	
1-2	8.00	*5@0.30	*5@0.30	*6@0.30	*5@0.30
3	2.17	*5@0.30	*5@0.30	*6@0.30	*5@0.30
5-6	8.00	*5@0.30	*5@0.30	*6@0.30	*5@0.30
7-13	8.00	*5@0.28	*5@0.28	*6@0.28	*5@0.28
14-18	8.00	*5@0.27	*5@0.27	*6@0.27	*5@0.27
19	8.00	*5@0.24	*5@0.24	*6@0.24	*5@0.24
20	1.95	*5@0.24	*5@0.24	*6@0.24	*5@0.24
21-46	8.00	*5@0.24	*5@0.24	*6@0.24	*5@0.24
47	2.15	*5@0.24	*5@0.24	*6@0.24	*5@0.24
48-53	8.00	*7@0.27	*7@0.27	*8@0.27	*7@0.27
54-56	8.00	*7@0.23	*7@0.23	*8@0.23	*7@0.23
57	7.97	*7@0.23	*7@0.23	*8@0.23	*7@0.23
58	7.76	*7@0.23	*7@0.23	*8@0.23	*7@0.23
59-62	8.00	*7@0.23	*7@0.23	*8@0.23	*7@0.23
63	4.91	*7@0.23	*7@0.23	*8@0.23	*7@0.23
64-65	8.00	*7@0.23	*7@0.23	*8@0.23	*7@0.23
66-67	8.00	*7@0.27	*7@0.27	*8@0.27	*7@0.27
68	4.92	*7@0.27	*7@0.27	*8@0.27	*7@0.27
69-74	8.00	*5@0.24	*5@0.24	*6@0.24	*5@0.24
75-83	8.00	*5@0.27	*5@0.27	*6@0.27	*5@0.27
84-87	8.00	*5@0.28	*5@0.28	*6@0.28	*5@0.28
88	5.94	*5@0.28	*5@0.28	*6@0.28	*5@0.28
89	8.00	*5@0.28	*5@0.28	*6@0.28	*5@0.28
90-93	8.00	*5@0.30	*5@0.30	*6@0.30	*5@0.30

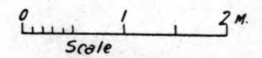


TYPICAL BARREL SECTION



DETAIL OF BLOW OFF

NOTES:
Refer to E6C/131



HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

SIPHON
ZARQA RIVER CROSSING
SHEET 2

APPROVED: _____

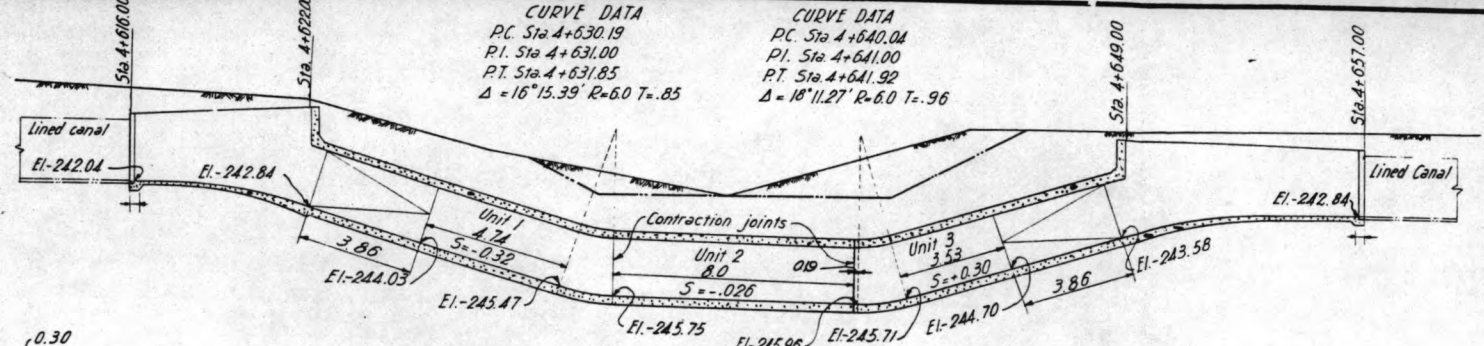
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/132

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

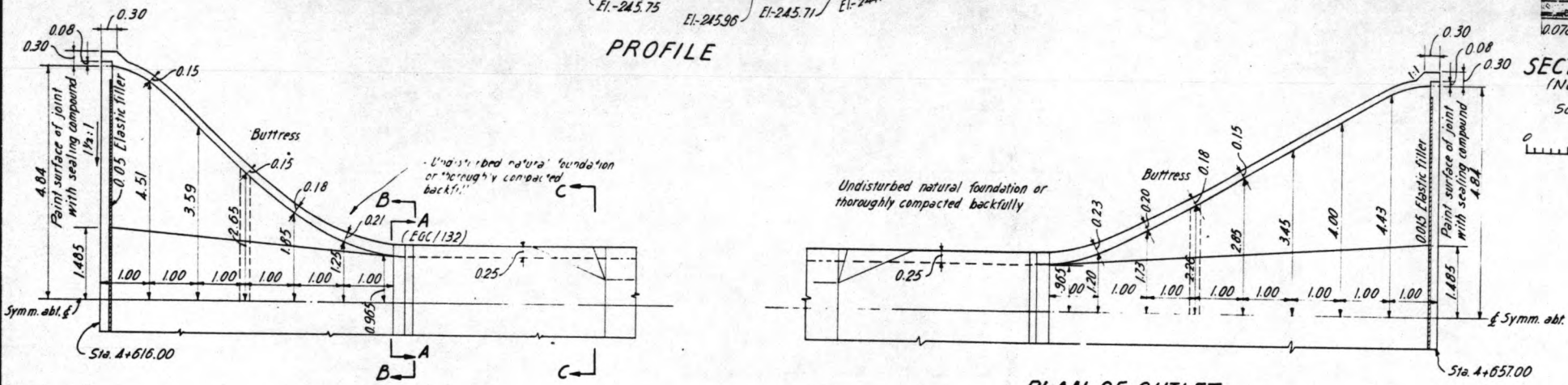
By	Date	Chkd	Date
Dsn.	3/14/58	AT	3/20/58
Drwn.	3/17/58	AT	3/24/58
Trac.	3/27/58	AT	3/27/58
Sub.			

CURVE DATA
 PC. Sta 4+630.19
 PI. Sta 4+631.00
 PT. Sta 4+631.85
 $\Delta = 16^\circ 15.39' R=60 T=.85$

CURVE DATA
 PC. Sta 4+640.04
 PI. Sta 4+641.00
 PT. Sta 4+641.92
 $\Delta = 16^\circ 11.27' R=60 T=.96$



PROFILE



PLAN OF INLET
Scale 1:3 M.

PLAN OF OUTLET
Scale 1:3 M.

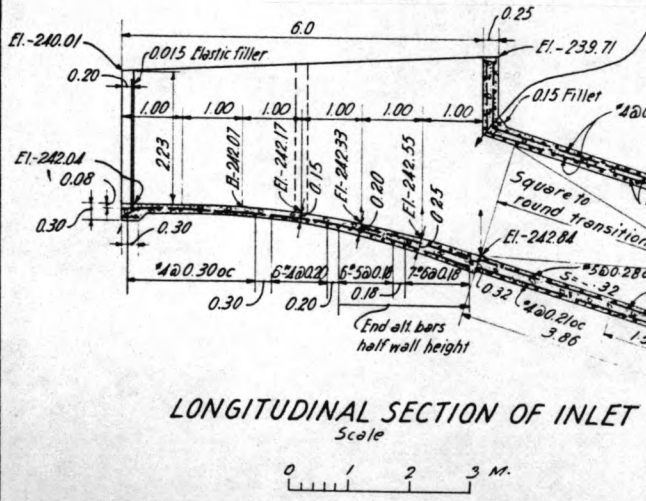
SECTION B-B
(Normal)
Scale 1:2 M.

SECTION C-C
(Normal)
Scale 1:2 M.

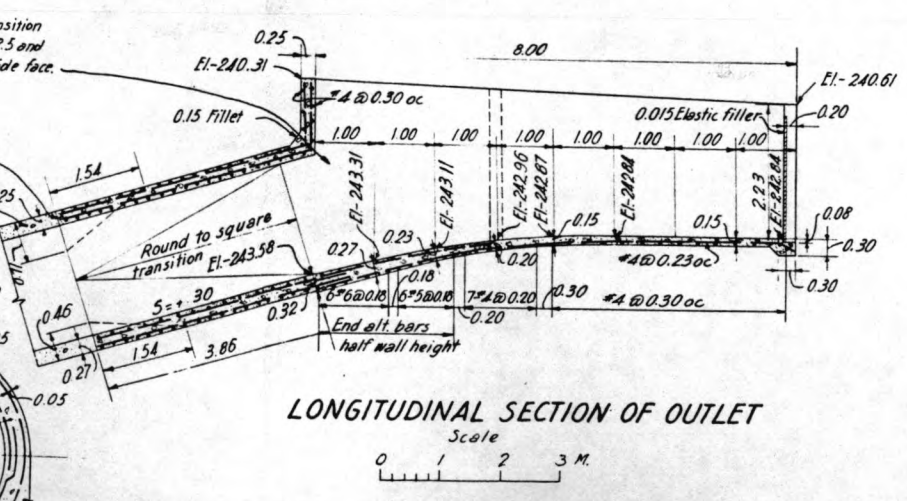
ESTIMATED QUANTITIES:
 Concrete 73 C.M.
 Reinforcement Steel 5 M.T.

REFERENCE DRAWINGS:
 Work this drawing with EGC/132
 Standard Details EGC/98
 Plan & Profile EGC/49

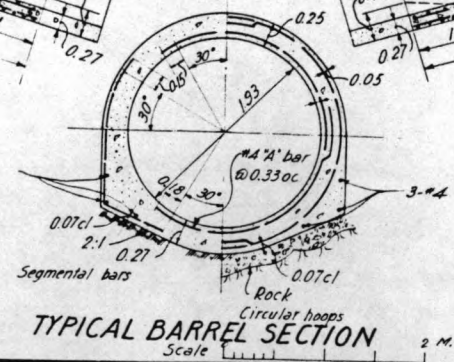
- NOTES:**
- Clear cover for reinforcement adjacent to surface placed against ground is 0.07 otherwise all clear cover is 0.05 or as noted.
 - Lap all bars 30 diameters at splices.
 - All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 - Elastic joint filler to be securely fastened to one face of concrete.
 - Stations, elevations and radii shown on profile refer to invert, unless otherwise noted.
 - Space transverse reinforcement in barrel along inside longitudinal bars and on longer arc of vertical curves.
 - Backfill to natural ground surface or to a normal depth of 1.0 along siphon barrel as directed.
 - Base of entire structure to be placed on undisturbed natural foundation or thoroughly compacted fill.
 - Provide cushion (0.10 min, 0.20 average thickness) of compacted backfill of selected material as directed wherever rock foundation is encountered.
 - Thickness of concrete to vary uniformly between dimensions shown.
 - Concrete design based on a compressive strength of 210 Kg per sq. cm.



LONGITUDINAL SECTION OF INLET
Scale 1:3 M.



LONGITUDINAL SECTION OF OUTLET
Scale 1:3 M.



TYPICAL BARREL SECTION
Scale 1:2 M.

HYDRAULIC PROPERTIES

SECTION	A	V	Q	r	n	s
Canal	9.96	1.00	10.0	1.00	0.014	0.00028
Siphon	2.78	3.60	10.0	0.48	0.014	0.01152
Siphon Future	2.78	4.32	12.0	0.48	0.014	0.01656

By	Date	Chkd	Date
Dsn.	1-8-58	1-8-58	1-8-58
Drwn.	1-8-58	1-8-58	1-8-58
Trac.			
Sub.			

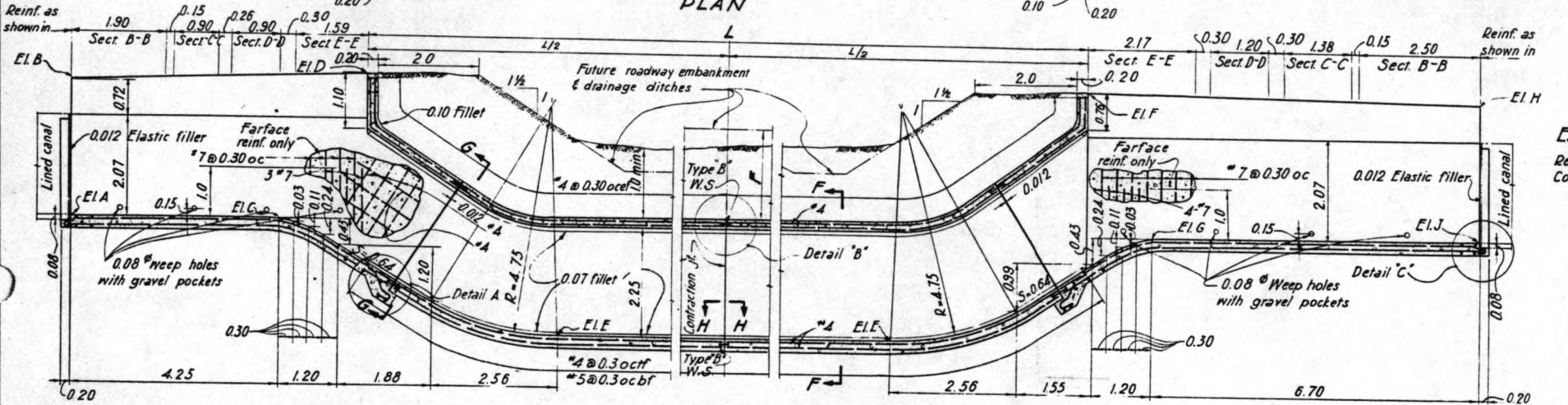
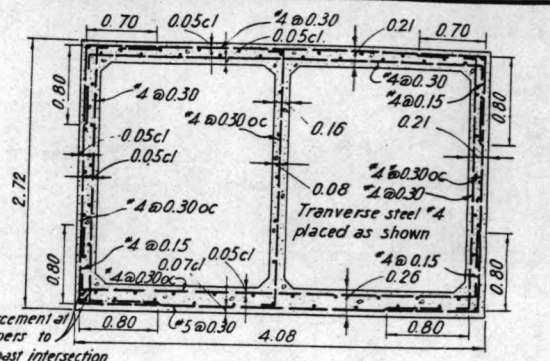
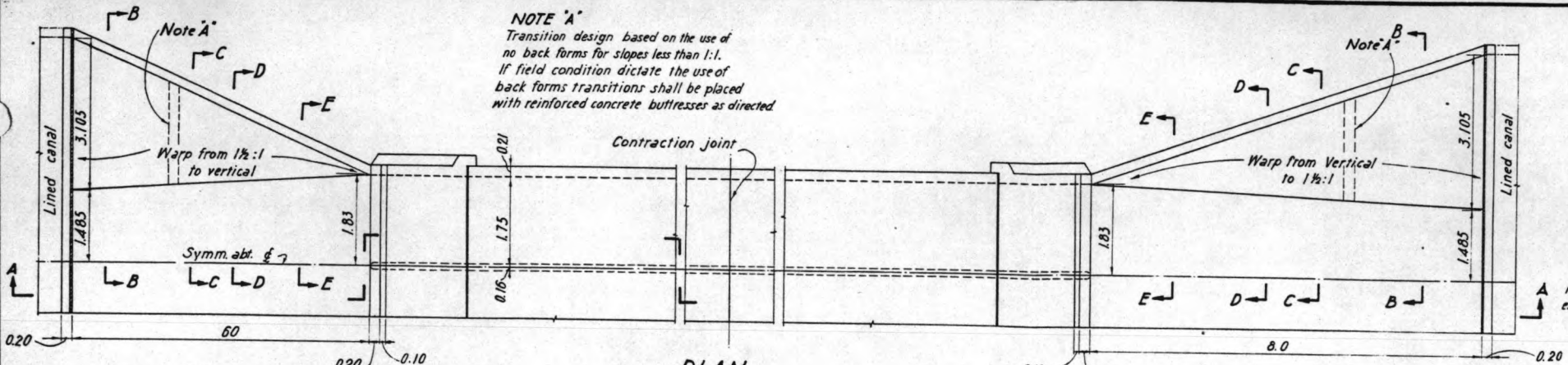
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

SIPHON
 WADI BLIWA CROSSING

APPROVED: [Signature]

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/134

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.



ESTIMATED QUANTITIES
 Reinforcement steel 27.82 M.T.
 Concrete 220 C.M.

REFERENCE DRAWINGS

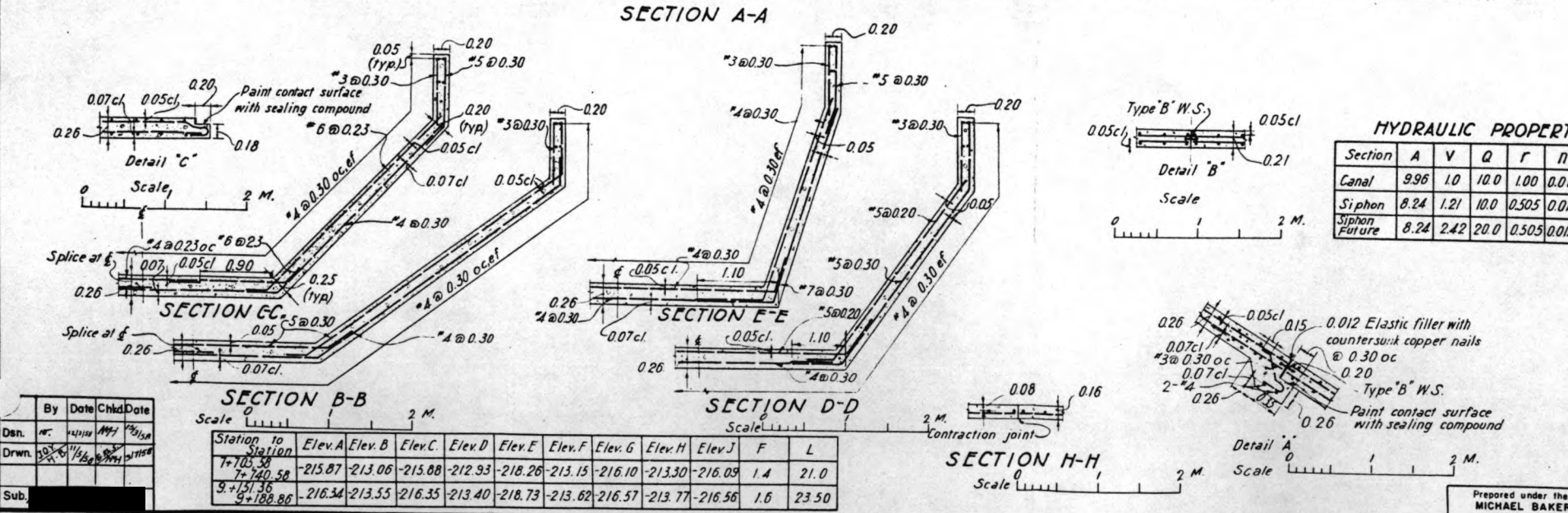
Standard Details E6C/98
 Plan and Profile E6C/16 & 17

NOTES:

1. Clear cover for reinf. is 0.05 unless otherwise noted.
2. Lap all bars 30 diameters at splices.
3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
4. Elastic filler to be fastened to concrete with 0.08 long copper nails.
5. Transverse bars on curves to be placed radially and spacing to be maintained on outer arc of curve.
6. Concrete design based on a compressive strength of 210 kg. per sq. cm.

HYDRAULIC PROPERTIES

Section	A	V	Q	f	n	S
Canal	9.96	1.0	10.0	1.00	0.014	0.00018
Siphon	8.24	1.21	10.0	0.505	0.014	0.000715
Future	8.24	2.42	20.0	0.505	0.014	0.00206



By	Date	Chkd	Date
Dsn.	11/15/58	MH	12/15/58
Drwn.	11/15/58	MH	12/15/58
Sub.			

Station to Station	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F	Elev. G	Elev. H	Elev. J	F	L
7+705.58	-215.87	-213.06	-215.88	-212.93	-218.26	-213.15	-216.10	-213.30	-216.09	1.4	21.0
7+740.58											
9+151.36	-216.34	-213.55	-216.35	-213.40	-218.73	-213.82	-216.57	-213.77	-216.56	1.6	23.50
9+188.86											

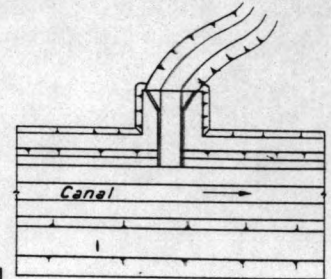
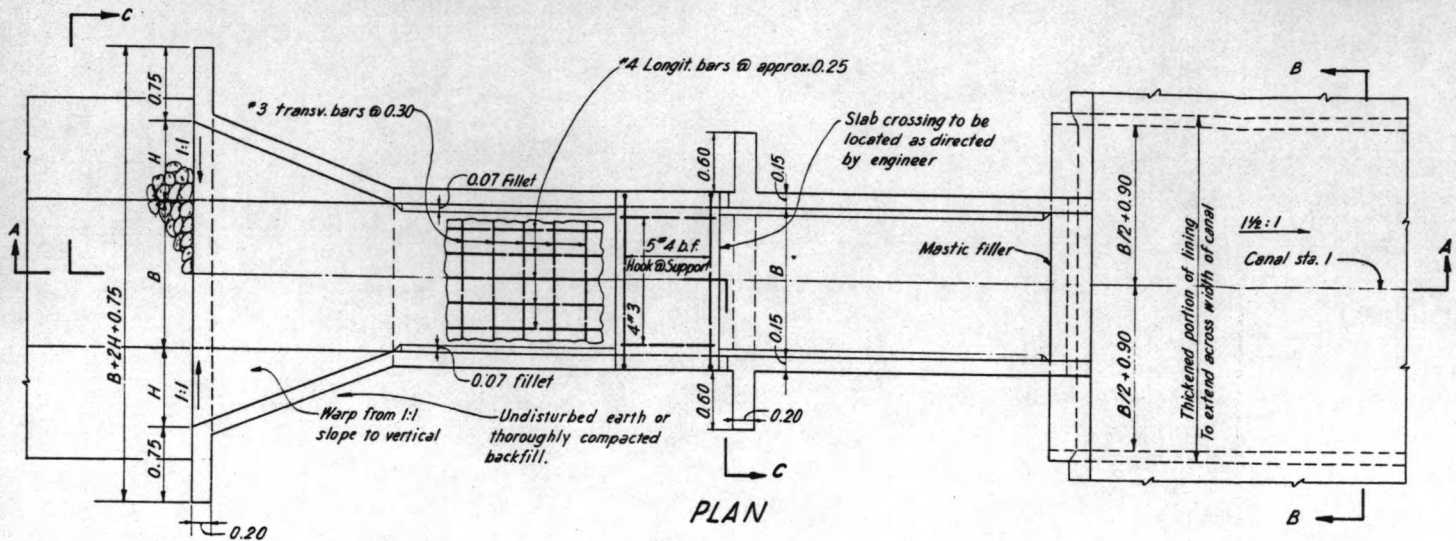
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

SIPHONS
 FROM STA. 7+705.58 TO STA. 7+740.58
 FROM STA. 9+151.36 TO STA. 9+188.86

APPROVED: _____

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

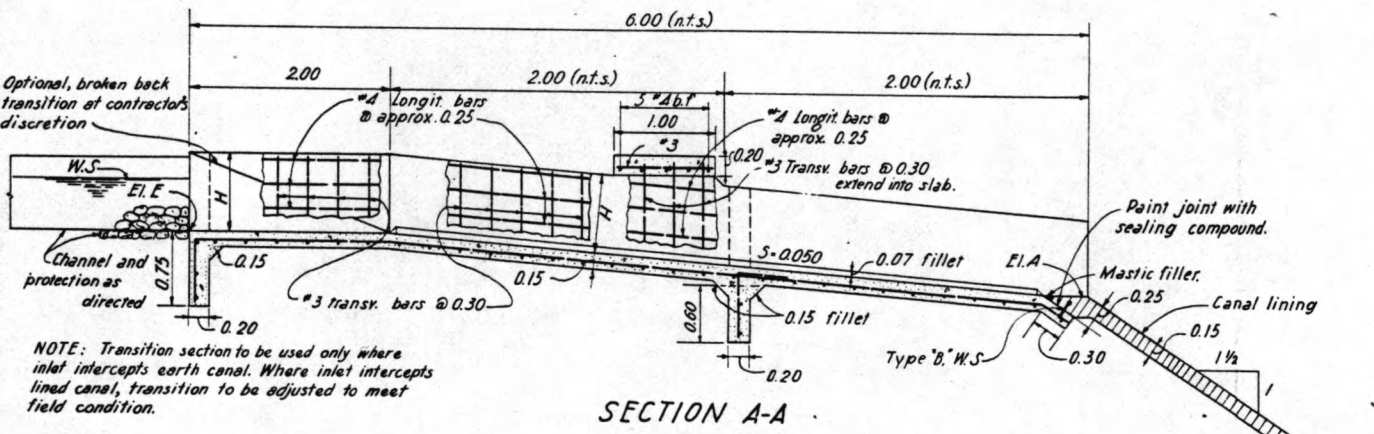
AMMAN, JORDAN DATE 1-9-1958 DWG NO. EGC/135



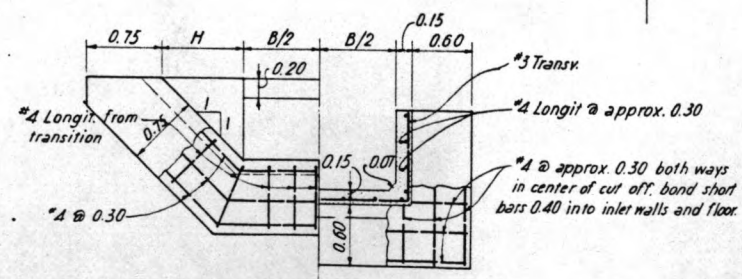
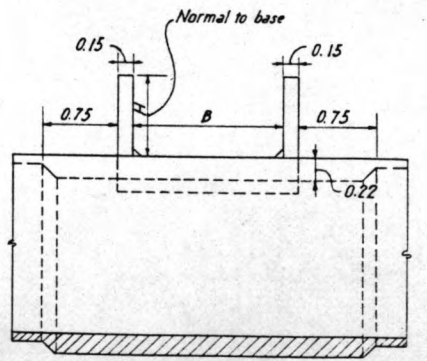
SCHEDULE

Canal Sta. 1	EI. A	EI. E	B	H	Q
10+241.82	-214.68	-214.48	1.22	0.72	0.50
12+036.56	-215.04	-214.84	1.22	0.72	0.50
22+674	-217.04	-216.84	1.22	0.72	0.50
23+700	-217.26	-217.06	0.96	0.66	0.25
30+569	-218.50	-218.30	0.96	0.66	0.25
32+533	-218.85	-218.65	0.96	0.66	0.25
37+310	-219.71	-219.51	0.96	0.66	0.25
37+669.50	-219.82	-219.62	0.96	0.66	0.25
52+703	-223.10	-222.90	0.96	0.66	0.25
54+140	-223.39	-223.19	0.96	0.66	0.25
56+620	-223.85	-223.65	0.96	0.66	0.25
58+380	-224.24	-224.04	0.96	0.66	0.25
58+980	-224.34	-224.14	0.96	0.66	0.25
60+952	-224.70	-224.50	0.96	0.66	0.25
*00+005	-225.54	-225.34	1.22	0.72	0.50

* East Ghor Canal - South -



NOTE: Transition section to be used only where inlet intercepts earth canal. Where inlet intercepts lined canal, transition to be adjusted to meet field condition.



ESTIMATED QUANTITIES (one structure)

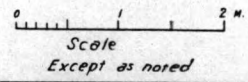
Concrete 4.6 M³
Reinforcement 270 M.T.

REFERENCE DRAWINGS:

Standard Details EGC/98
Plan and Profile EGC/12 to EGC/49

NOTES:

1. Clear cover for reinforcement in concrete placed on foundation to be 0.07, otherwise clear cover to be 0.05.
2. Lap all bars 30 diameters at splices.
3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
4. Base of structure to be placed on undisturbed natural foundation or thoroughly compacted fill.
5. Concrete design based on a compressive strength of 210 kg per sq cm.



HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

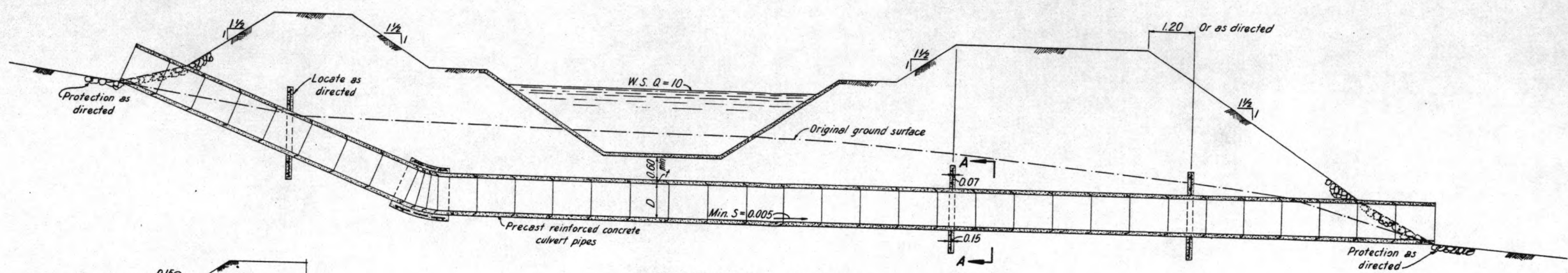
IRRIGATION LATERAL INLET

APPROVED [Redacted]

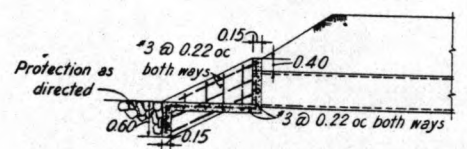
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/137

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

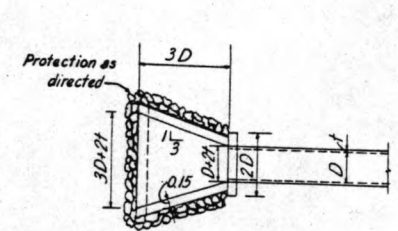
By	Date	Chkd	Date
Dsn.			
Drwn.	H.F.J. 7.6.50		1/1/53
Trac.			
Sub.			



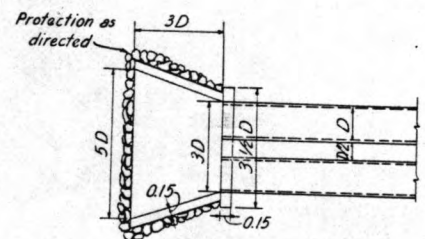
LONGITUDINAL SECTION



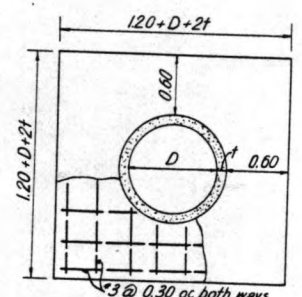
SECTION OPTIONAL TRANSITION



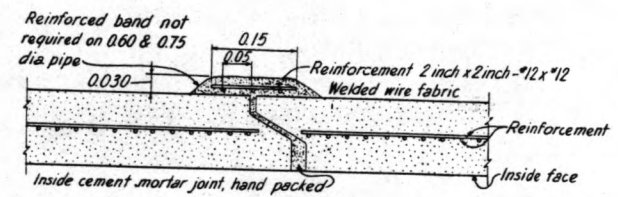
OPTIONAL PIPE TRANSITION SINGLE BARREL



OPTIONAL PIPE TRANSITION DOUBLE BARREL



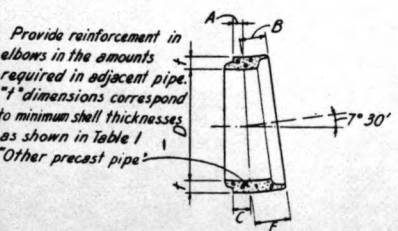
SECTION A-A Typical Collar



TONGUE & GROOVE JOINT

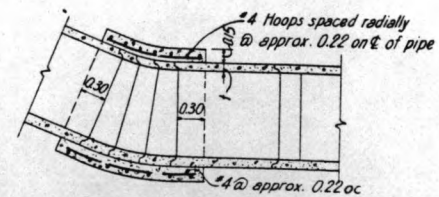
REFERENCE DRAWINGS:
Standard Details EGC/98
Plan & Profile EGC/12 to EGC/49

- NOTE:
1. Monolithic concrete design based upon a compressive strength of 210 Kg. per sq. cm.
 2. Lap all bars 30 diameters at splices.
 3. Cover for reinforcement in monolithic concrete placed against ground shall be 0.07 clear.
 4. Precast pipe as used in lateral turnouts shall be precast culvert pipe and conform to drawings and tables as shown herein.



TYPICAL 7 1/2° CULVERT PIPE ELBOW

CULVERT PIPE ELBOWS DIMENSIONS - Meters					
D	A	B	C	E	F
0.60	0.05	0.14	0.10	0.19	
0.75	0.05	0.14	0.11	0.20	
0.90	0.06	0.16	0.14	0.24	
1.20	0.11	0.20	0.20	0.29	



BEND DETAIL

TABLE I Standard-strength Reinforced-Concrete Culvert Pipe

Internal diameter of pipe (in mtrs)	Concrete 246 Kg. per sq. cm.				Concrete 316 Kg. per sq. cm.				Strength test requirements Kg. per linear meter of pipe 3-edge bearing method. Load to produce a 0.025 cm crack
	Minimum shell thickness (in cms)	Min. reinforcement sq. cm. per lin. mtr. of pipe barrel	Other circular reinforcement in precast pipe	Elliptical reinforcement in precast pipe	Minimum shell thickness (in cms)	Min. reinforcement sq. cm. per lin. mtr. of pipe barrel	Other circular reinforcement in precast pipe	Elliptical reinforcement in precast pipe	
0.60	6.4	7.6	1 line 3.60	1 line 2.75	6.4	6.4	1 line 4.25	1 line 3.60	4463
0.75	7.0	8.9	1 line 4.65	1 line 3.60	7.0	7.6	1 line 5.92	1 line 4.44	5020
0.90	7.9	10.2	2 lines ea 3.81	1 line 3.81	7.9	8.6	2 lines ea 4.65	1 line 4.65	5503
1.20	10.5	12.7	2 lines ea 5.29	1 line 5.29	10.5	10.8	2 lines ea 6.56	1 line 6.56	8033

All dimensions in Millimeters
Not to scale

HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

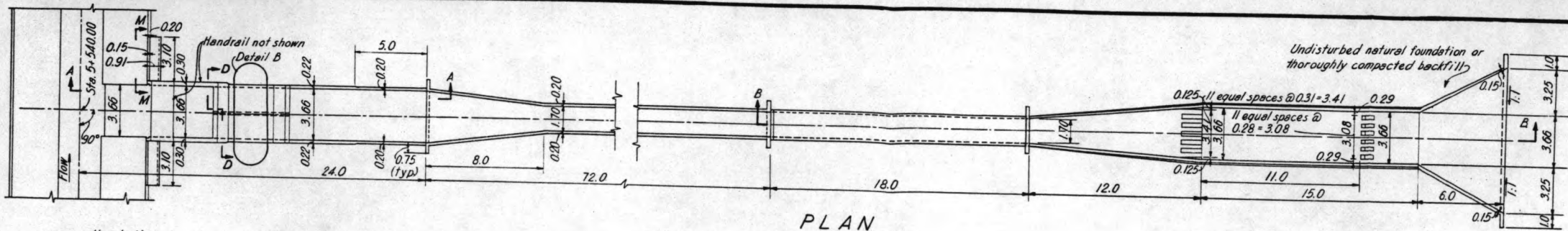
CONCRETE PIPE CULVERT

APPROVED: [Redacted]

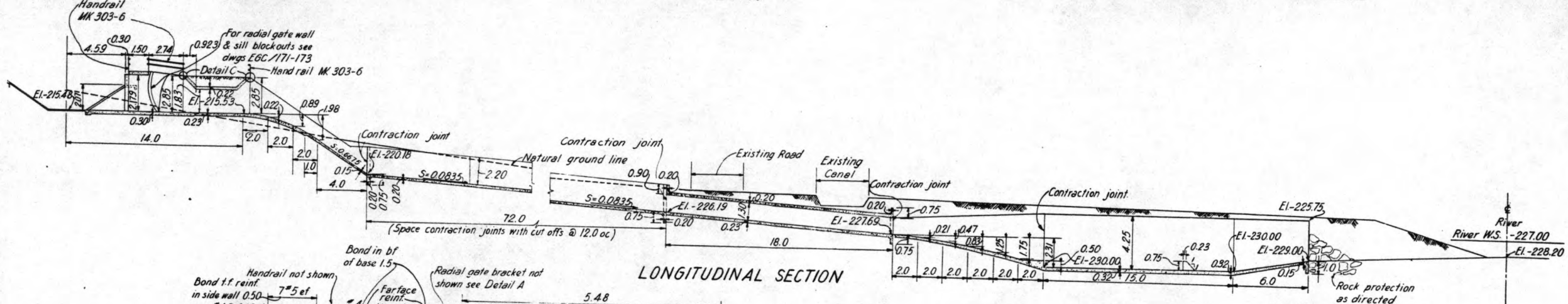
Prepared under the supervision of
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HARZA ENGINEERING CO.

AMMAN JORDAN DATE 1-9-1958 DWG. NO. EGC/141

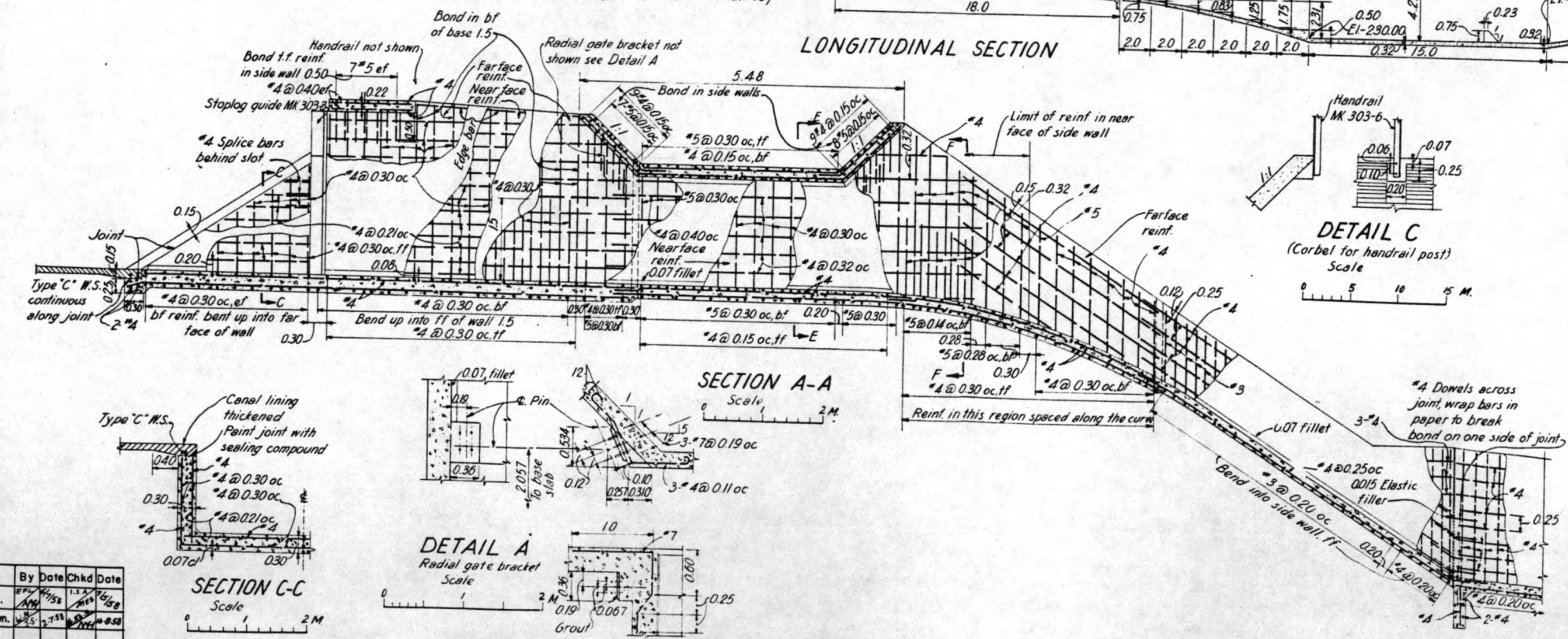
By	Date	Chkd	Date
Den.			
Drwn.	J. H. S. 2/27/58		1-8-58
Trac.			
Sub.			



PLAN



LONGITUDINAL SECTION



SECTION A-A

SECTION C-C

DETAIL A

DETAIL C

ESTIMATED QUANTITIES:

Concrete	273.9 C.M
Reinforcement Steel	20.28 M.T
Miscellaneous Metals	0.22 M.T

REFERENCE DRAWINGS:
 Standard Details EGC/98
 Plan & Profile EGC/15
 Miscellaneous Metals EGC/303

- NOTES:**
1. Clear cover for reinforcement is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Elastic joint filler shall be securely fastened to one face of concrete.
 5. Elevations refer to invert unless otherwise noted.
 6. Concrete design based on a compressive strength of 210 Kg. per sq. cm.

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

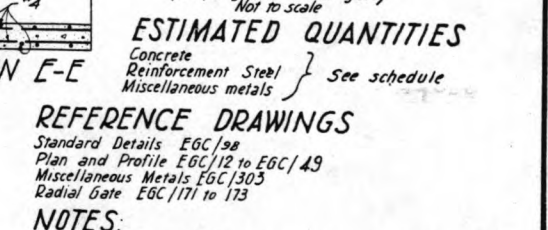
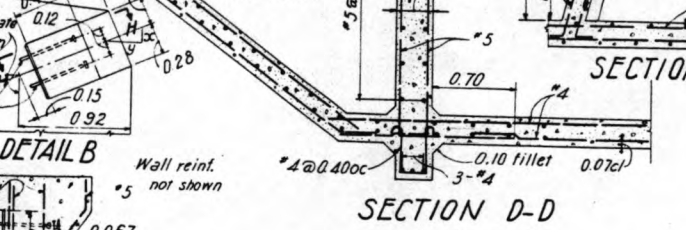
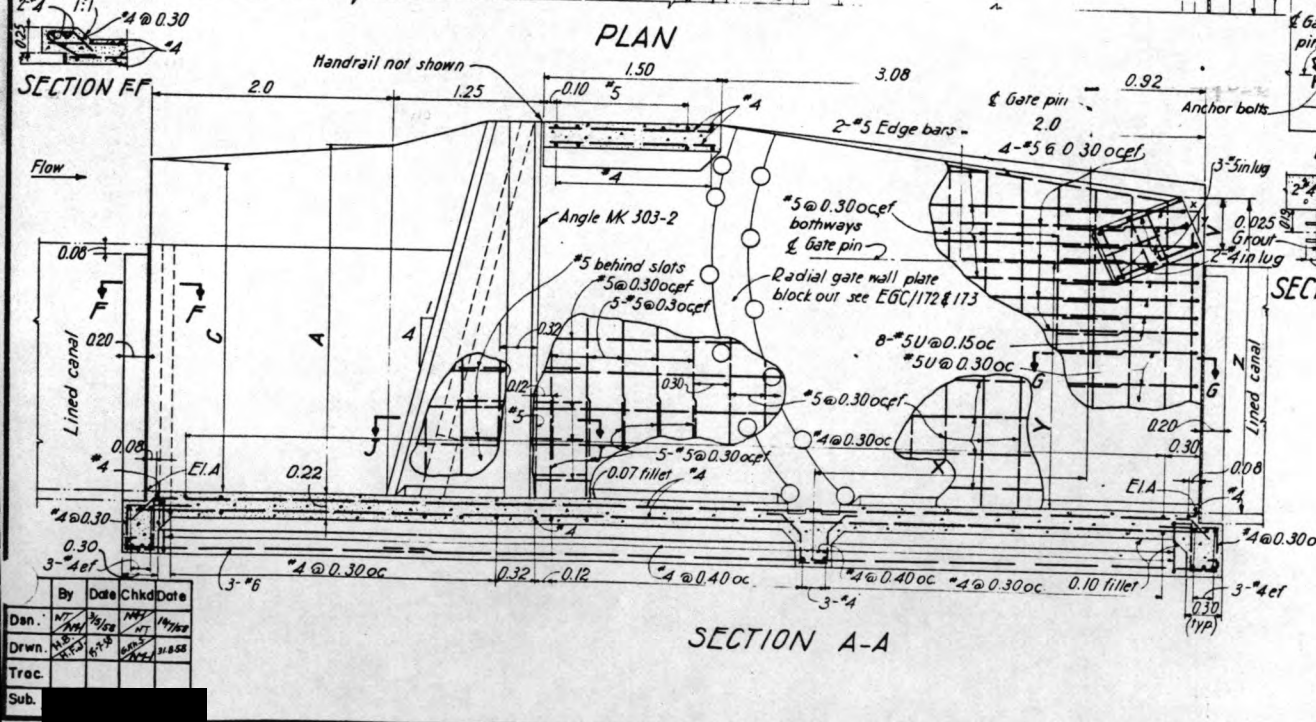
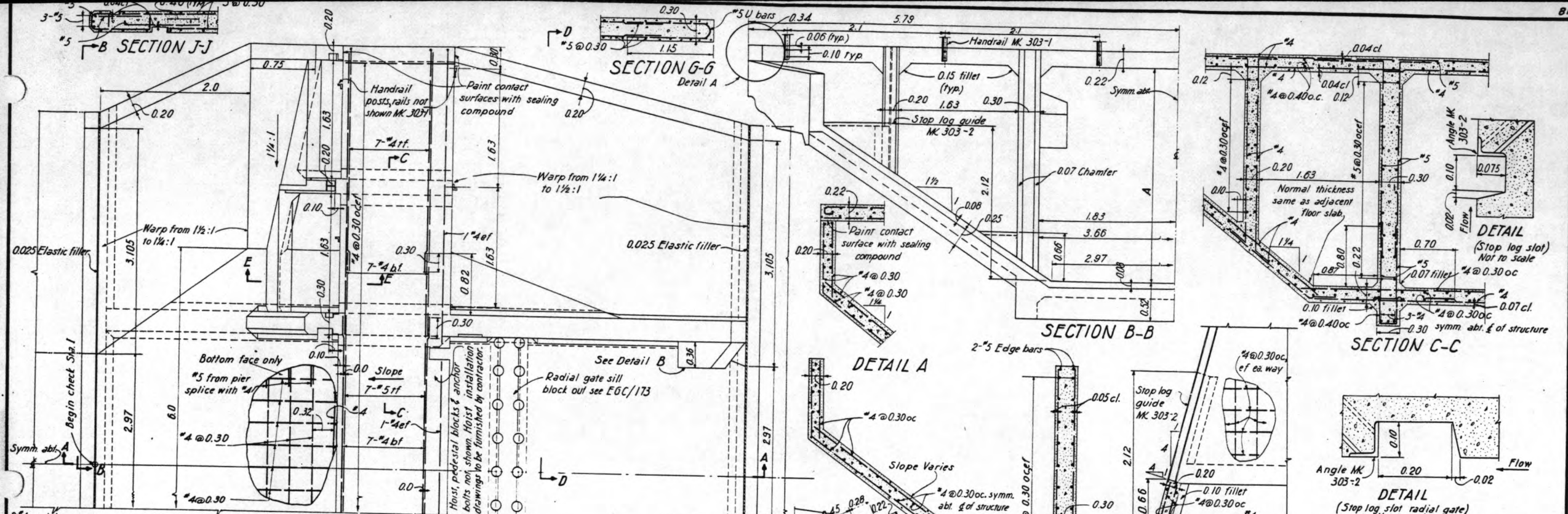
YARMOUK RIVER WASTEWAY
 SHEET 1

APPROVED: [Signature]

Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO

AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. EGC/142

By	Date	Chkd	Date
Dsn.	1/15/58	1/15/58	1/15/58
Drwn.	1/15/58	1/15/58	1/15/58
Trac.			
Sub.			



ESTIMATED QUANTITIES

Concrete	Reinforcement Steel	Miscellaneous metals
See schedule		

REFERENCE DRAWINGS
 Standard Details EGC/98
 Plan and Profile EGC/12 to EGC/49
 Miscellaneous Metals EGC/305
 Radial Gate EGC/171 to 173

NOTES:
 1. Clear cover for reinf adjacent to surfaces placed on ground is 0.07, all other surfaces clear cover is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Concrete design based on compressive strength of 210 Kg. per sq. cm.
 5. For check capacities:
 Q = 18-20 incl. Y = 2.057, X = 2.250 X/Y = 1/2 Z = 2.539 V = 0.462
 Q = 13-17 incl. Y = 1.757, X = 2.490 X/Y = 1/2 Z = 2.243 V = 0.474

SCHEDULE

Sta. I	El. A	Q	C	A	Quantity Estimate		
					Concrete	Reinf Steel	Misc. Metals
5+546	-215.48	20	2.79	2.95	50	4.2	0.45
8+560	-216.24	20	2.79	2.95	50	4.2	0.45
11+506	-216.98	20	2.79	2.95	50	4.2	0.45
12+760	-217.24	20	2.79	2.95	50	4.2	0.45
15+000	-217.64	19	2.72	2.92	49	4.1	0.44
16+860	-217.97	19	2.72	2.92	49	4.1	0.44
19+004	-218.37	19	2.72	2.92	49	4.1	0.44
20+910	-218.79	19	2.72	2.92	49	4.1	0.44
22+620	-219.10	18	2.65	2.85	49	4.1	0.44
24+790	-219.53	18	2.65	2.85	49	4.1	0.43
27+125	-219.94	18	2.65	2.85	49	4.1	0.43
29+270	-220.33	18	2.65	2.85	49	4.1	0.43
31+600	-220.75	18	2.65	2.85	49	4.1	0.43
33+990	-221.18	17	2.59	2.79	47	4.0	0.43
37+329	-221.78	17	2.59	2.79	47	4.0	0.43
41+440	-222.57	16	2.53	2.73	47	4.0	0.42
43+300	-222.91	16	2.53	2.73	47	4.0	0.42
46+967	-224.08	16	2.53	2.73	47	4.0	0.42
49+410	-224.59	16	2.53	2.73	47	4.0	0.42
53+055	-225.24	16	2.53	2.73	47	3.9	0.42
55+290	-225.68	15	2.46	2.66	46	3.9	0.42
58+053	-226.19	14	2.40	2.60	46	3.9	0.41
59+600	-226.52	13	2.33	2.53	46	3.9	0.40
62+170	-226.99	13	2.33	2.53	46	3.9	0.40
x 0+0740	-227.62	12	2.33	2.53	46	3.9	0.40
x 4+6220	-242.05	12	2.33	2.53	46	3.9	0.40

Scale Except as noted

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

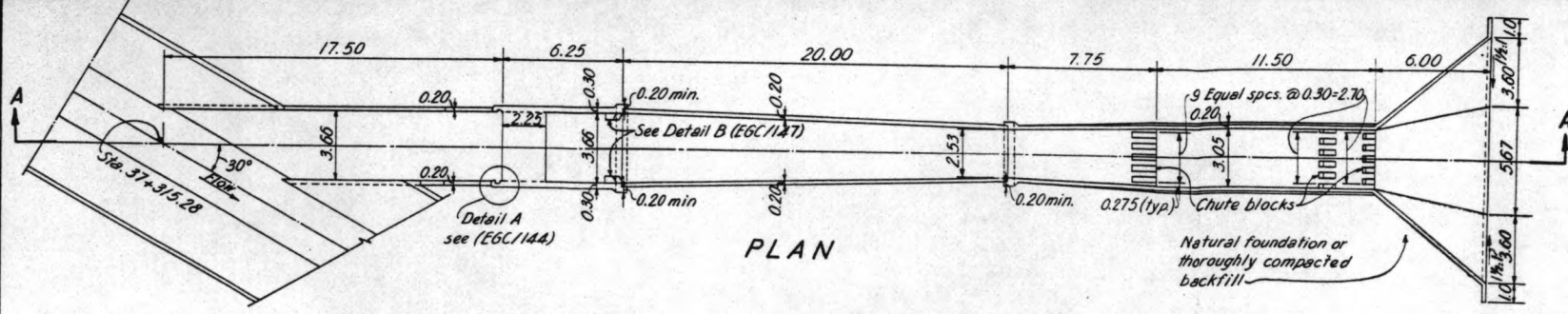
TYPICAL RADIAL GATE CHECK

APPROVED: [Signature]

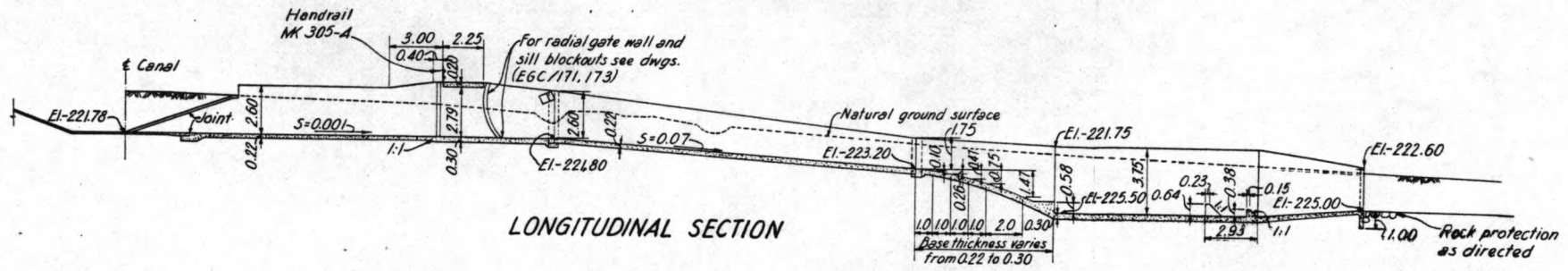
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/147

By	Date	Chkd	Date
Drn.	1/15/58	1/15/58	1/15/58
Trac.	1/15/58	1/15/58	1/15/58
Sub.			

Check dimension some as for Q of 13
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 HARZA ENGINEERING CO.



PLAN



LONGITUDINAL SECTION

ESTIMATED QUANTITIES:

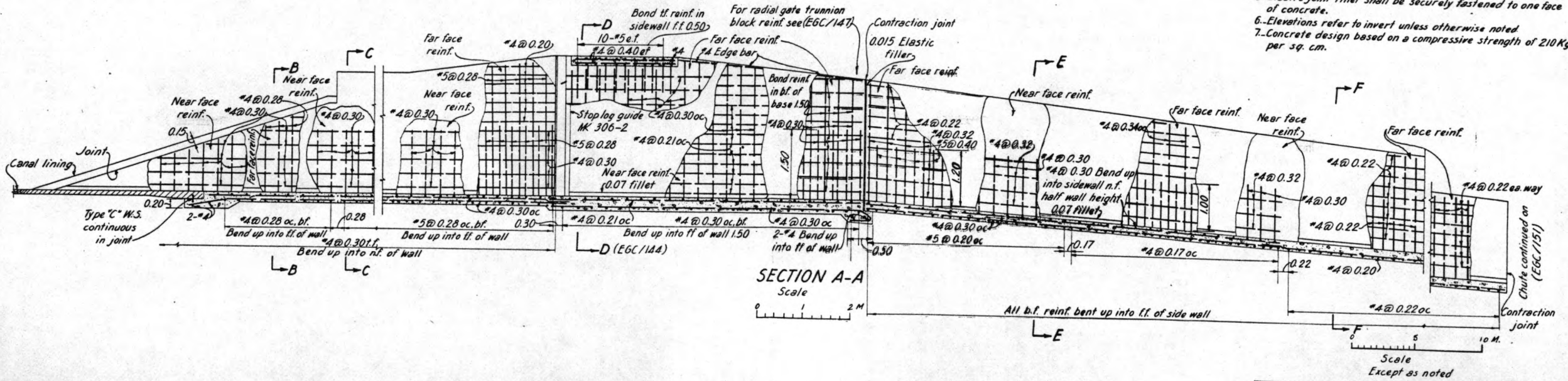
Concrete	154.20 C.M.
Reinforcement Steel	11.40 M.T.
Miscellaneous Metals	0.14 M.T.

REFERENCE DRAWINGS:

Work this drawing with EGC/104, 144, 147, 171, 173
 Standard Details EGC/98
 Plan & Profile EGC/32
 Miscellaneous Metals EGC/305, 306

NOTES:

1. Clear cover for reinforcement is 0.05 unless otherwise noted.
2. Lap all bars 30 diameters at splices.
3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
4. Thickness of concrete to vary uniformly between dimensions shown.
5. Elastic joint filler shall be securely fastened to one face of concrete.
6. Elevations refer to invert unless otherwise noted.
7. Concrete design based on a compressive strength of 210 Kg. per sq. cm.



SECTION A-A
Scale

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

WADI EL-YABIS WASTEWAY
 SHEET 1

APPROVED: [Redacted]

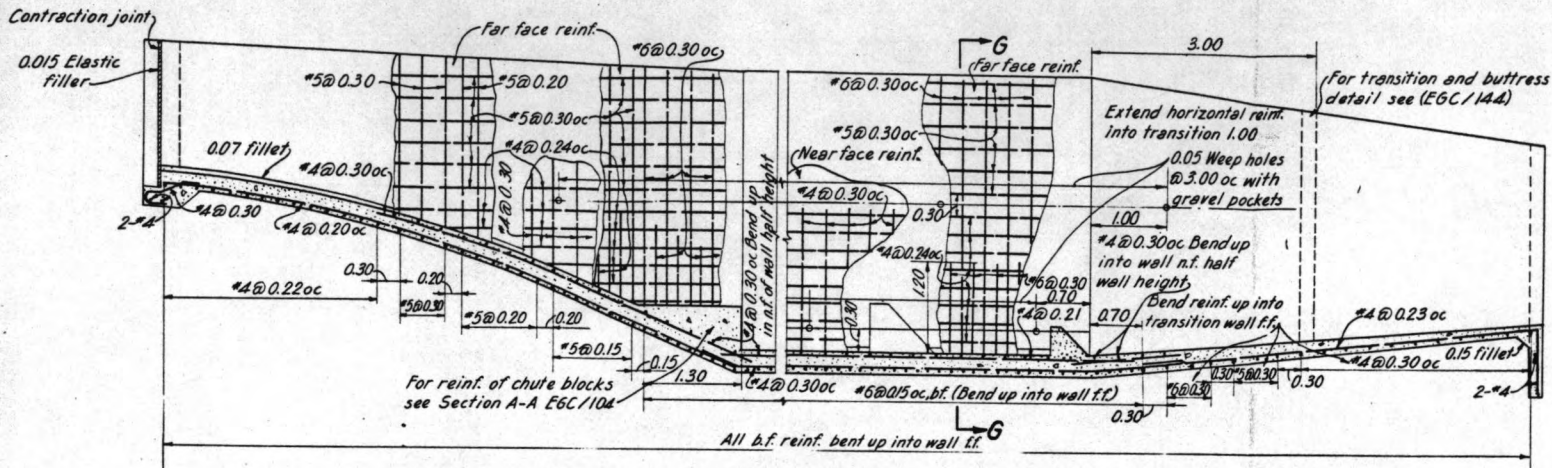
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Drwn.	M.H.	4.8.58	M.H.	9.58
Trac.				
Sub.				

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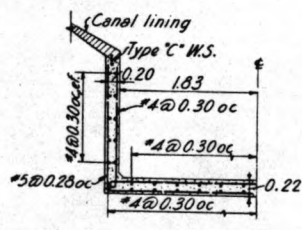
AMMAN, JORDAN

DATE: 1-9-1958

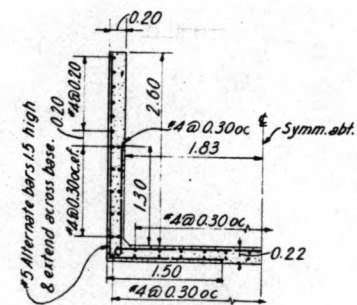
DWG. NO.
EGC/150



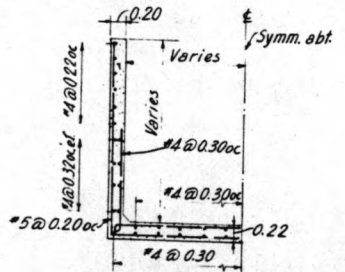
SECTION A-A



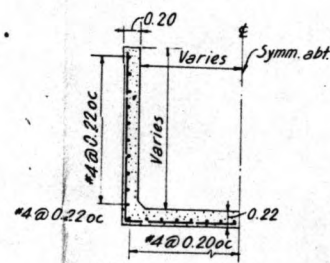
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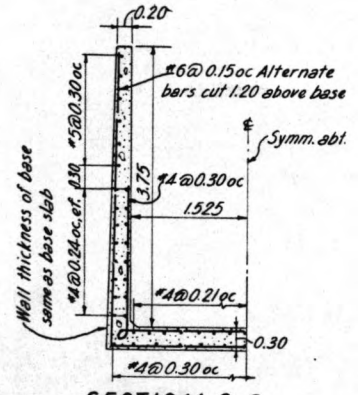
SECTION C-C



SECTION E-E

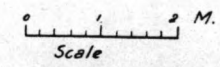


SECTION F-F



SECTION G-G

NOTES:
Refer to EGC/150



By	Date	Chkd	Date
Dsn.	22/7	AFT	1/11/58
Drwn.	22/7	AFT	1/11/58
Trac.			
Sub.			

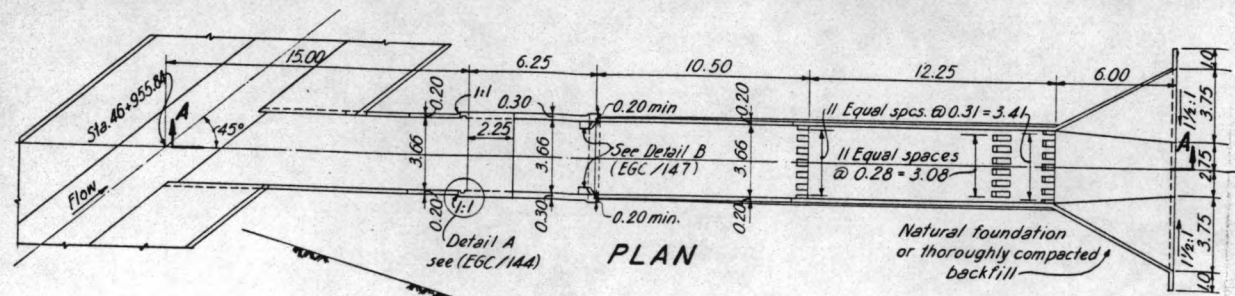
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

WADI EL-YABIS WASTEWAY
SHEET 2

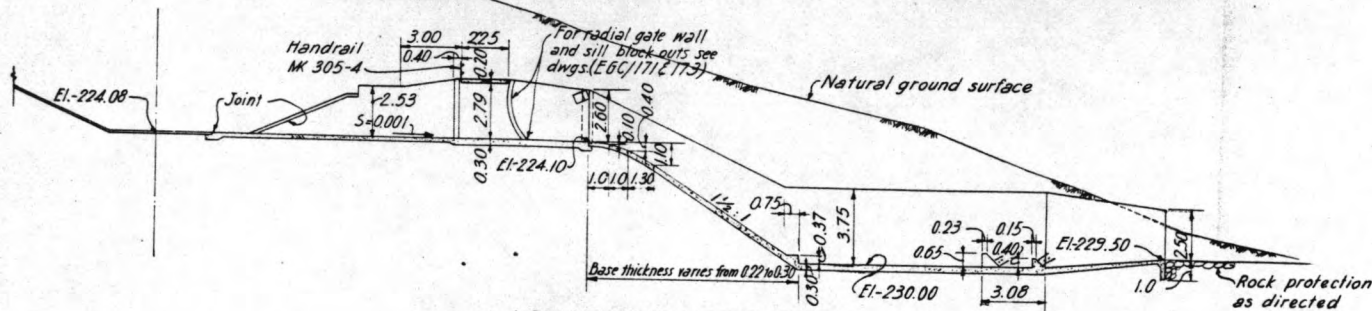
APPROVED: [Redacted]

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HARZA ENGINEERING CO.

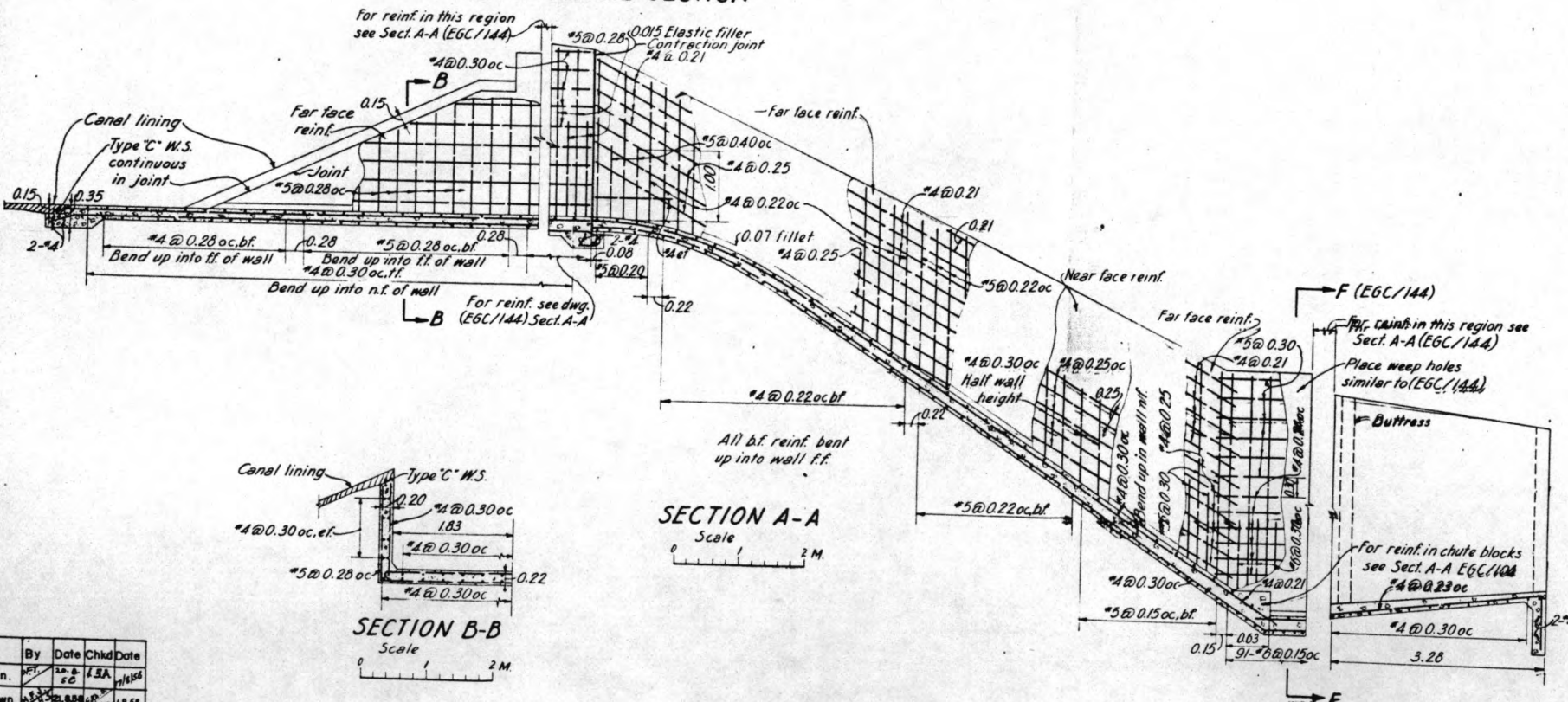
AMMAN, JORDAN DATE: 1-9-1958 DWG. NO. EGC/151



PLAN



LONGITUDINAL SECTION



SECTION A-A

SECTION B-B

ESTIMATED QUANTITIES:

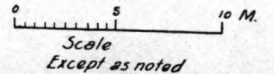
Concrete	130.50 C.M.
Reinforcement Steel	9.70 M.T.
Miscellaneous Metals	0.14 M.T.

REFERENCE DRAWINGS:

Work this drawing with EGC/144, 104, 147, 171, 173
 Standard Details EGC/98
 Plan & Profile EGC/37
 Miscellaneous Metals EGC/305, 306

NOTES:

1. Clear cover for reinforcement is 0.05 unless otherwise noted.
2. Lap all bars 30 diameters at splices.
3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
4. Thickness of concrete to vary uniformly between dimensions shown.
5. Elastic joint filler shall be securely fastened to one face of concrete.
6. Elevations refer to invert unless otherwise noted.
7. Concrete design based on a compressive strength of 210Kg. per sq. cm.



HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 WADI ABU KHARRUB WASTEWAY

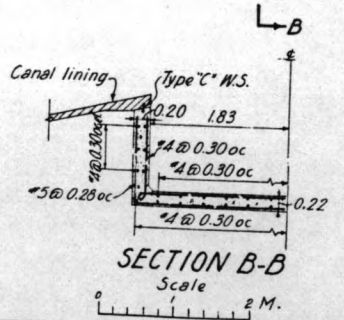
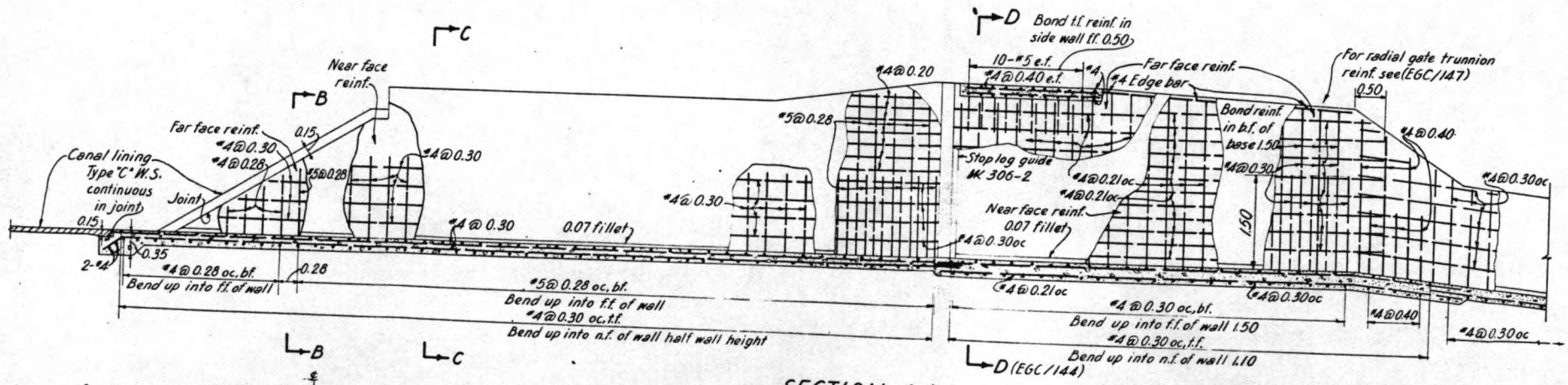
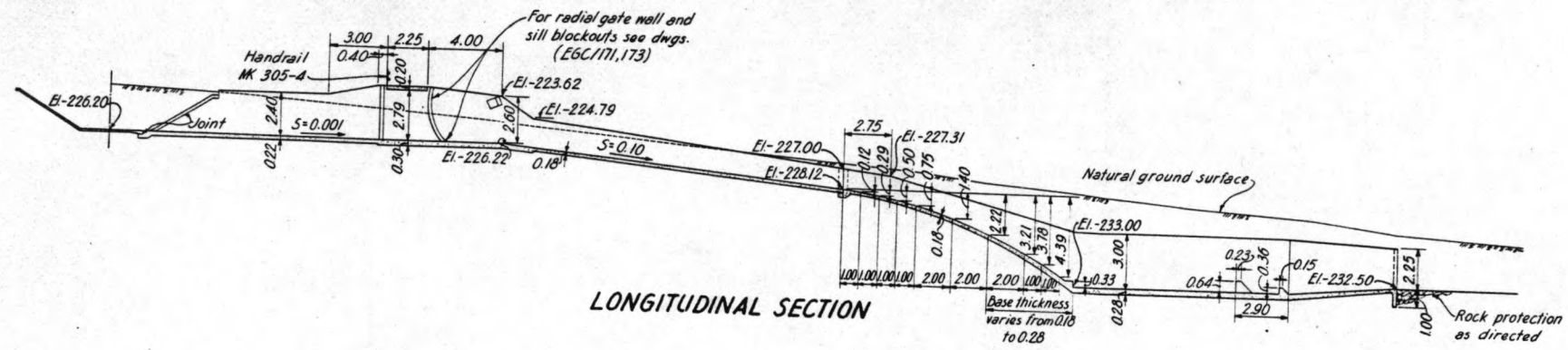
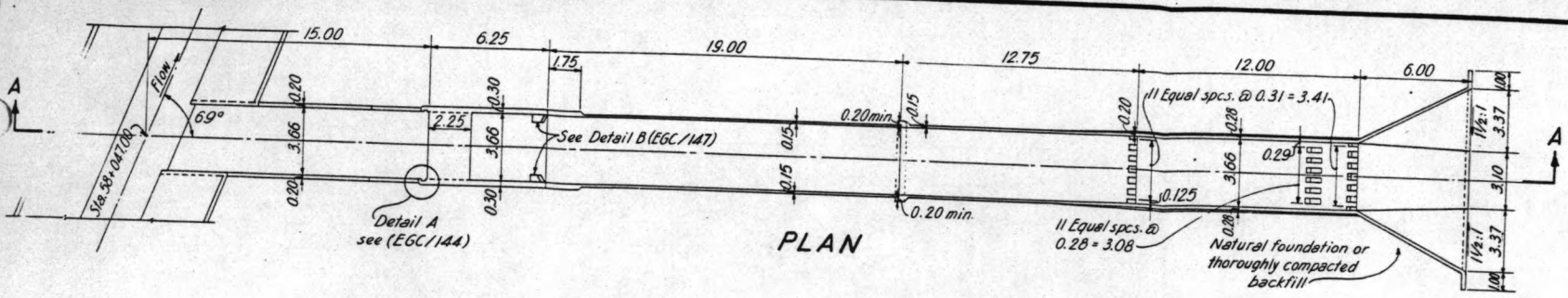
APPROVED: [Redacted]

Prepared under the supervision of
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AMMAN, JORDAN DATE: 1-9-1958

DWG. NO. EGC/153

By	Date	Chkd	Date
Den.	1-9-58	LSA	1-10-58
Drwn.	1-9-58	LSA	1-9-58
Trac.			
Sub.			



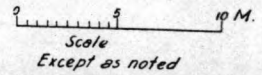
ESTIMATED QUANTITIES:

Concrete 160.00 C.M.
 Reinforcement Steel 12.50 M.T.
 Miscellaneous Metals 0.14 M.T.

REFERENCE DRAWINGS:

Work this drawing with EGC/104, 144, 147, 171, 172
 Standard Details EGC/98
 Plan & Profile EGC/42
 Miscellaneous Metals EGC/305, 306

- NOTES:**
1. Clear cover for reinforcement is 0.05 unless otherwise noted.
 2. Lap all bars 30 diameters at splices.
 3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
 4. Thickness of concrete to vary uniformly between dimensions shown.
 5. Elastic joint filler shall be securely fastened to one face of concrete.
 6. Elevations refer to invert unless otherwise noted.
 7. Concrete design based on a compressive strength of 210Kg per sq. cm.



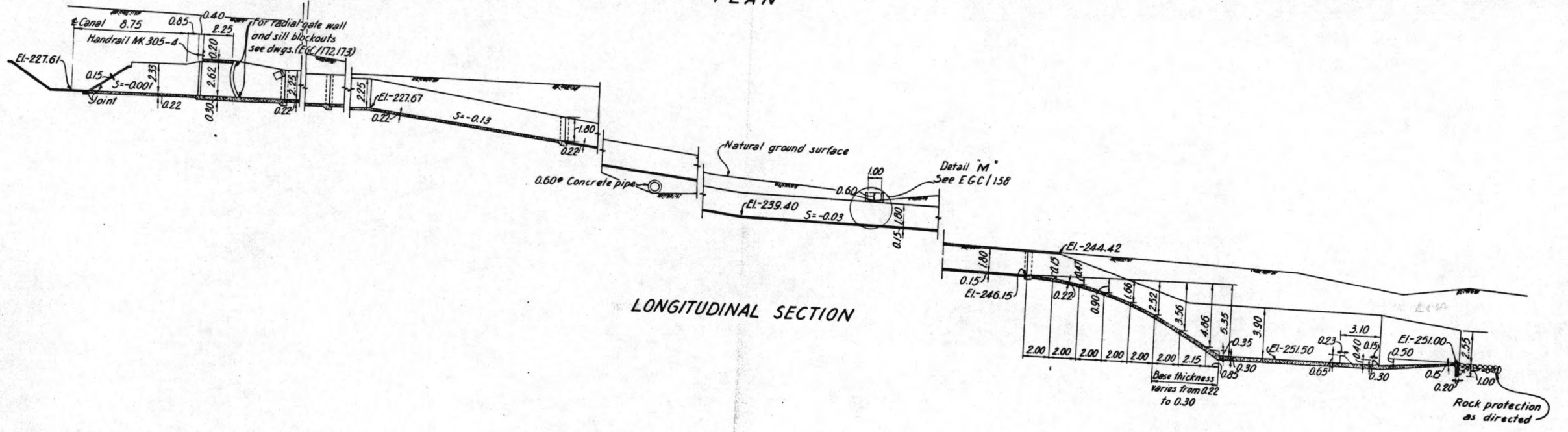
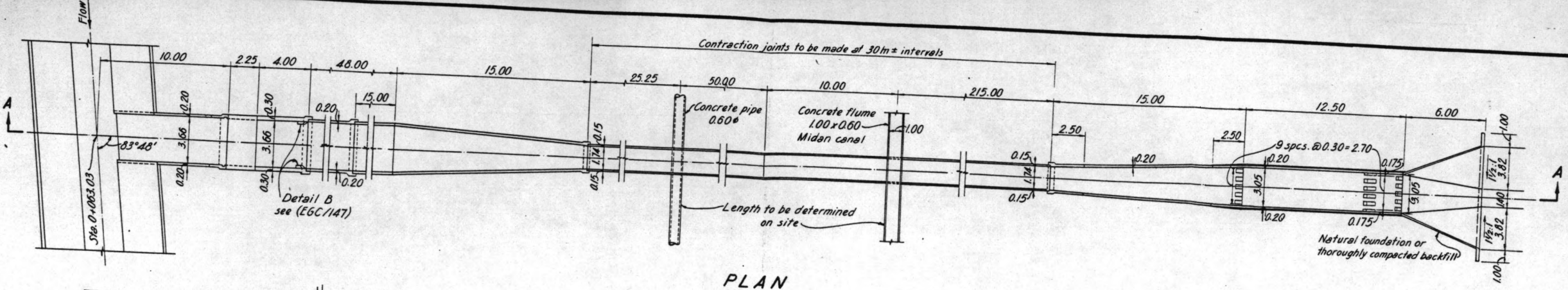
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 WADI RAJIB WASTEWAY
 SHEET 1

APPROVED [Signature]

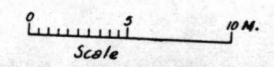
Prepared under the supervision of
 MICHAEL BAKER, JR., INC. &
 HARZA ENGINEERING CO.

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/144

By	Date	Chkd	Date
Dsn.	1.8.58	M.T.	2.4.58
Drwn.	1.8.58	M.T.	1.8.58
Trac.			
Sub.			



NOTES:
Refer to dwg. (EGC/158)

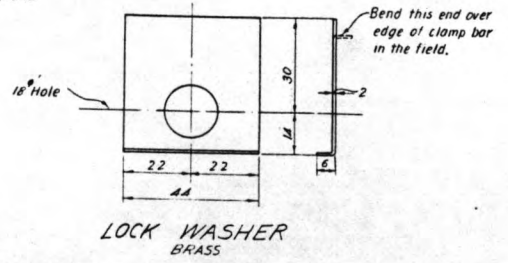
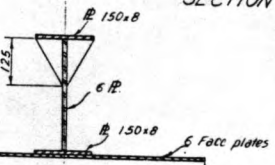
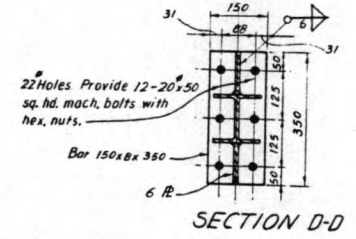
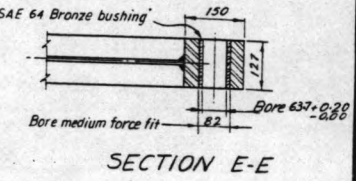
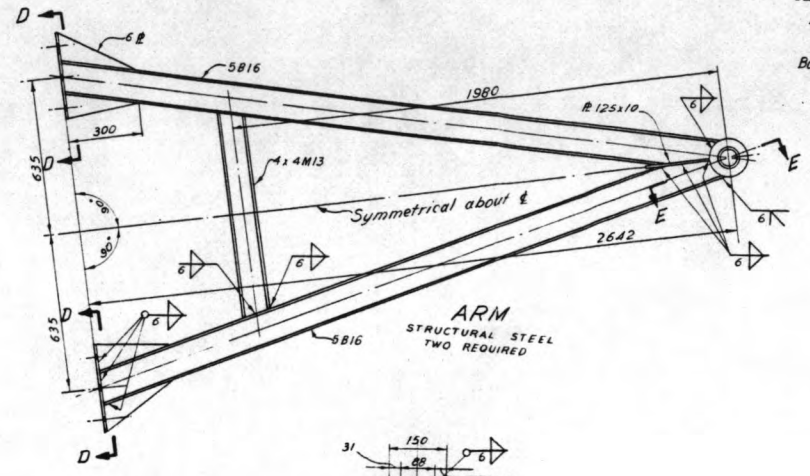
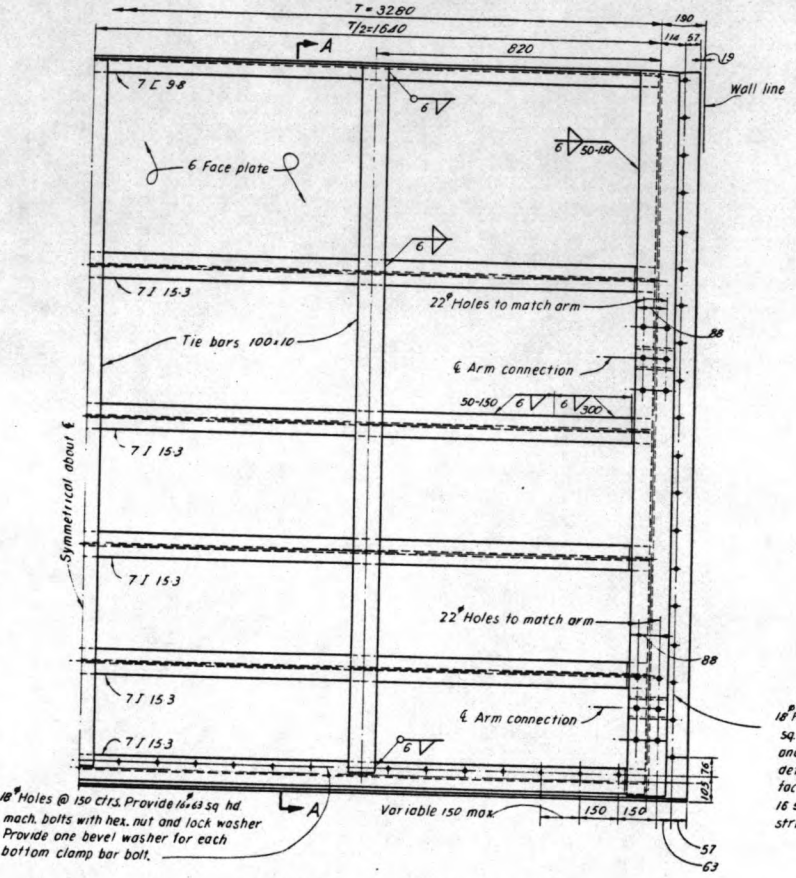
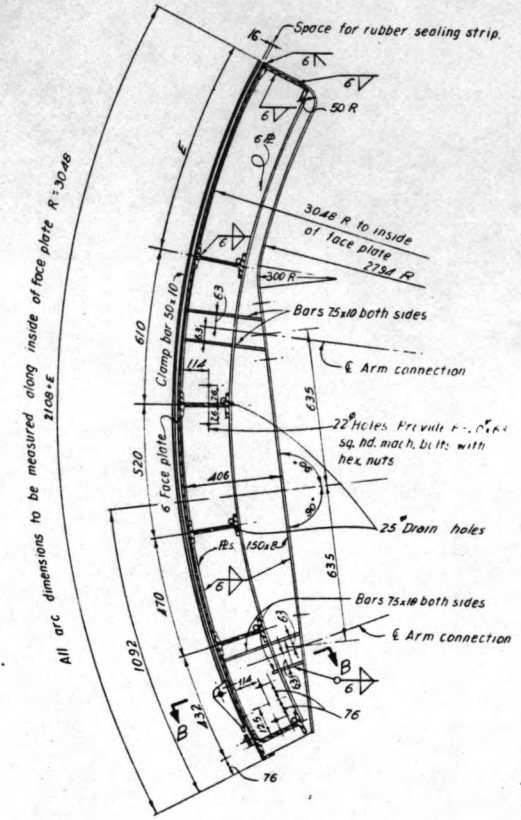


HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME
ZARQA RIVER WASTEWAY
SHEET 1

APPROVED: [Redacted]

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
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AMMAN, JORDAN DATE 1-9-1968 DWG. NO.

By	Date	Chkd	Date
15n.	14.8.58	NET	20.8.58
17m.	16.9.58	NET	13.9.58
18c.			
19d.			



SHOP BUTT WELD
Note: Face plate may be made of more than one section (min width 900) with vertical joints butt welded as shown

TYPE I RADIAL GATE

STRUCTURE	STRUCTURE LOCATION STA.	DIMENSION		WEIGHT OF GATE
		E	H	
Wasteway	5+540.00	702	26	1862.6 Kg.
Check	5+546.00	601	2.5	1833.9 Kg.
Check	8+560.00	601	2.5	1833.9 Kg.
Wasteway	11+494.34	702	26	1862.6 Kg.
Check	11+506.00	601	2.5	1833.9 Kg.
Check	12+760.00	601	2.5	1833.9 Kg.
Check	15+000.00	601	2.5	1833.9 Kg.
Check	16+860.00	601	2.5	1833.9 Kg.
Wasteway	18+997.00	702	26	1862.6 Kg.
Check	19+004.00	601	2.5	1833.9 Kg.
Check	20+910.00	601	2.5	1833.9 Kg.
Check	22+620.00	500	2.4	1807.8 Kg.
Check	24+790.00	500	2.4	1807.8 Kg.
Check	27+125.00	500	2.4	1807.8 Kg.
Check	29+270.00	500	2.4	1807.8 Kg.
Check	31+600.00	500	2.4	1807.8 Kg.
Wasteway	37+315.28	500	2.4	1807.8 Kg.
Wasteway	46+955.04	500	2.4	1807.8 Kg.

TYPE I RADIAL GATE LIST OF EQUIPMENT
(Per gate)

DESCRIPTION	NOTES	NO.	DRAWING
RADIAL GATE			
3660x2600max Radial Gate	T=3280 E & H vary Y=2057	1	EGC/171
Pin bearing		2	EGC/173
125 Dia. roller		4	EGC/173
250 Wall plate	R=2985 Length=3015	1R-11	EGC/173
200 Gate sill	L=3660	1	EGC/173
Wire rope & details	See details		EGC/172
Pin bearing greasing pipe	Length varies	1 Lot	EGC/173

RADIAL GATE HOIST			
Radial Gate Hoist	Capacity 2,275 MT. T=3280. See specs.		Contractors des.

RUBBER SEALS AND ANCHOR BOLTS			
Seals - Sides	100 Stem length varies	2	EGC/5
Bottom	125 Stem length=2870	1	EGC/5
Corner	125 Stem	2	EGC/5
Bolts - Pin bearing *	25 500 sq. hd. mach. bolt. hex. nut	8	No detail
Pin bearing †	25 400 sq. hd. mach. bolt. hex. nut	6	No detail
Wall plate	16 200 sq. hd. mach. bolt, 2 hex. nuts	24	No detail
Sill plate	16 200 sq. hd. mach. bolt, 2 hex. nuts	16	No detail
Hoist	To suit hoist		Contractors des.

*For Check Structures.
†For Waste ways.

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All dimensions in Millimeters

Not to scale

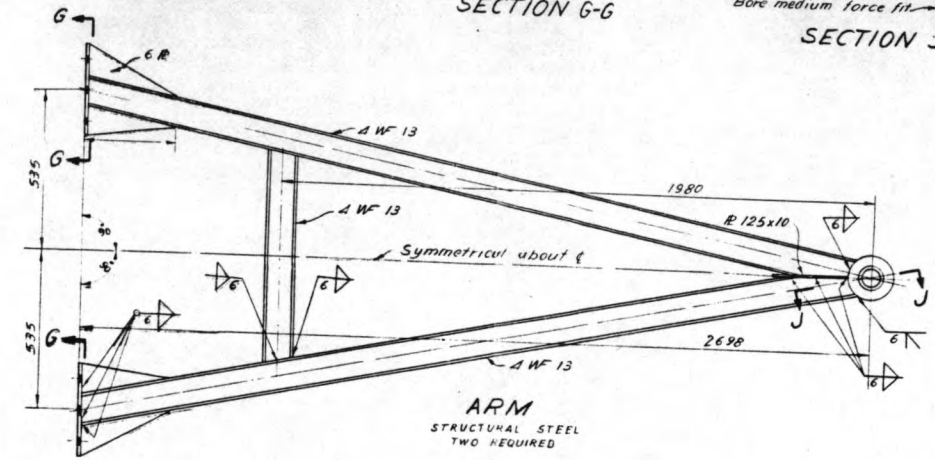
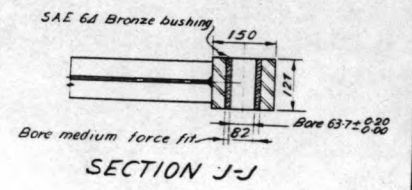
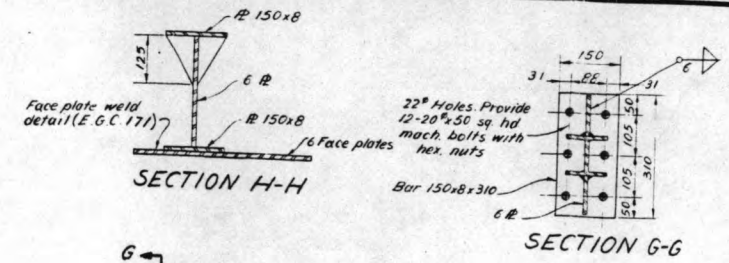
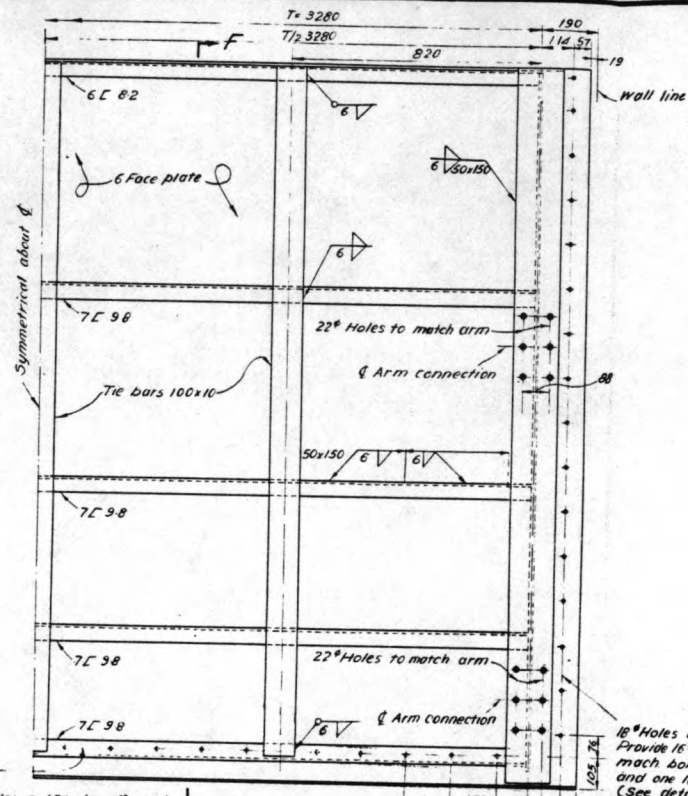
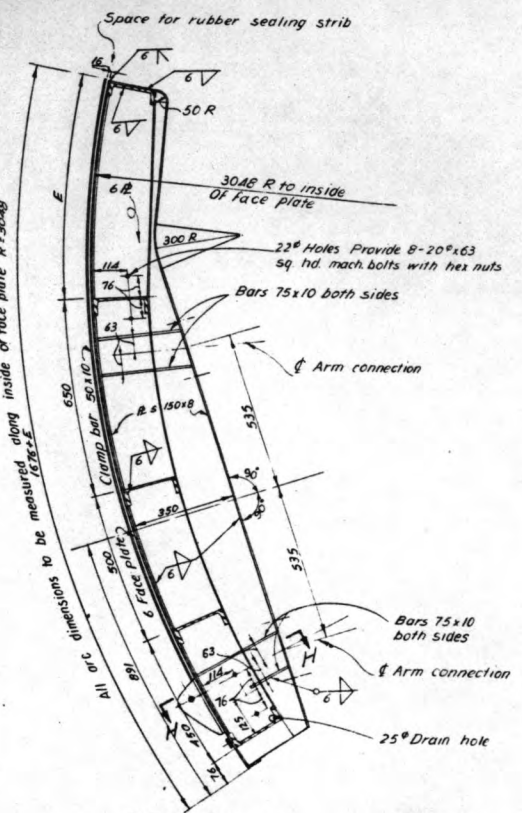
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

RADIAL GATE TYPE I

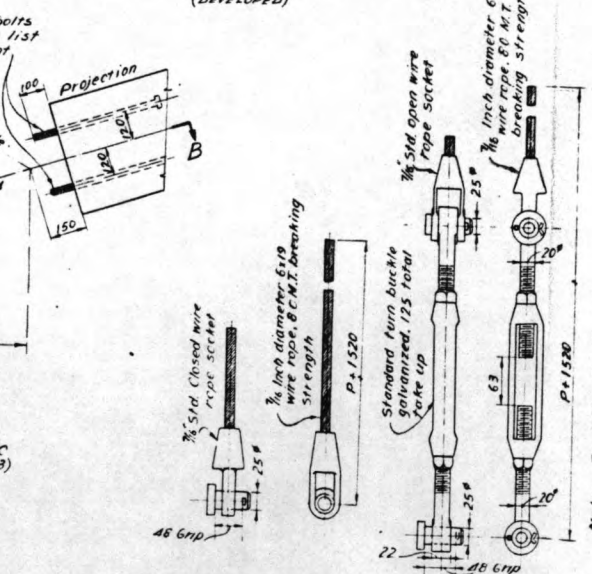
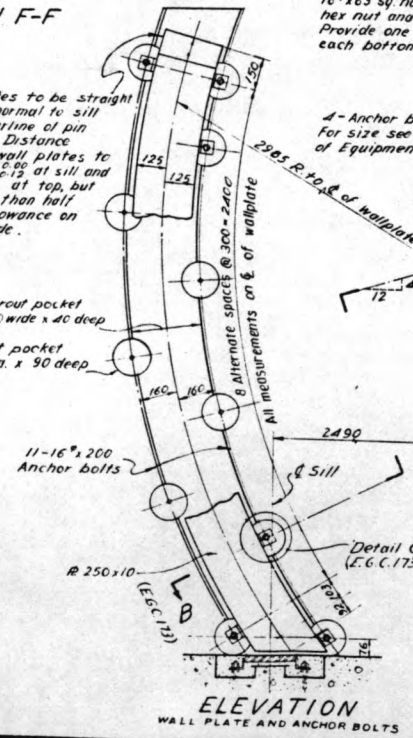
APPROVED: [Signature]

By	Date	Chkd	Date
NT	3-4-58	MM	3-5-58
...

AMMAN, JORDAN DATE DWG. NO. EGC/171



Note: Wall plates to be straight and set normal to sill and centerline of pin bearings. Distance between wall plates to be 3660±0.80 at sill and 3660±0.60 at top, but not more than half of the allowance on either side.



Note: P & c of gate fastening to c of drum see E.G.C. 173. To be determined by hoist design furnished by contractor.

TYPE II RADIAL GATE LIST OF EQUIPMENT (Per gate)

DESCRIPTION	NOTES	NO. DRAWING REQD	DRAWING NUMBER
RADIAL GATE			
3660x2300 max. Radial Gate	T=3280 E & H vary Y=1757	1	EGC/172
Pin bearing		2	EGC/173
125 Dia. roller		4	EGC/173
250 Wall plate	R=2985 Length=2743	1R-1L	EGC/172
200 Gate sill	L=3660	1	EGC/173
Wire rope & details	See detail		EGC/172
Pin bearing grease piping	Length varies	1 Lot	EGC/173

RADIAL GATE HOIST		
Radial Gate Hoist	Capacity 2275 MT, T=3280 See specs.	1 Contractor des.

RUBBER SEALS AND ANCHOR BOLTS			
Seals - Sides	100 Stem length varies	2	EGC/15
Bottom	125 Stem length=2070	1	EGC/15
Corner	125 Stem	2	EGC/15
Balls - Pin bearing	25" 500 sq. hd. mach. bolt, hex. nut	8	No detail
Pin bearing	25" 400 sq. hd. mach. bolt, hex. nut	8	No detail
Wall plate	16" 200 sq. hd. mach. bolt, 2 hex. nuts	22	No detail
Sill plate	16" 200 sq. hd. mach. bolt, 2 hex. nuts	16	No detail
Hoist	To suit hoist		Contractor des.

* For Check Structures.
+ For Wasteways.

TYPE II RADIAL GATE

STRUCTURE	STRUCTURE LOCATION STA.	DIMENSION OF		WEIGHT OF GATE
		E	H	
Check	33+990	74.3	2.3	1529.4 Kg.
Check	37+329	74.3	2.3	1529.4 Kg.
Check	41+440	74.3	2.3	1529.4 Kg.
Check	43+300	74.3	2.3	1529.4 Kg.
Check	46+967	74.3	2.3	1529.4 Kg.
Check	49+410	74.3	2.3	1529.4 Kg.
Check	53+055	74.3	2.3	1529.4 Kg.
Check	55+290	64.3	2.2	1503.3 Kg.
Wasteway	58+047	64.3	2.2	1503.3 Kg.
Check	58+053	64.3	2.2	1503.3 Kg.
Check	59+600	64.3	2.2	1503.3 Kg.
Check	62+170	64.3	2.2	1503.3 Kg.
Wasteway	* 0+083.00	64.3	2.2	1503.3 Kg.
Check	* 0+074.00	64.3	2.2	1503.3 Kg.
Wasteway	* 4+579.51	64.3	2.2	1503.3 Kg.
Check	* 4+606.00	64.3	2.2	1503.3 Kg.

* East Ghor Main Canal - South.

All dimensions in Millimeters

Not to scale

HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

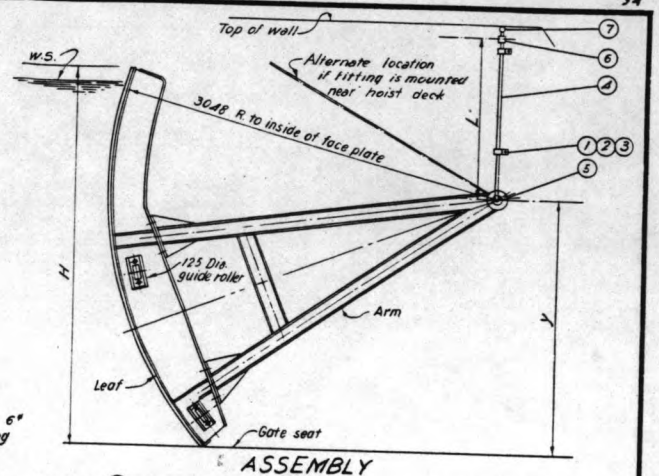
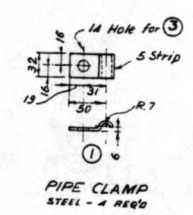
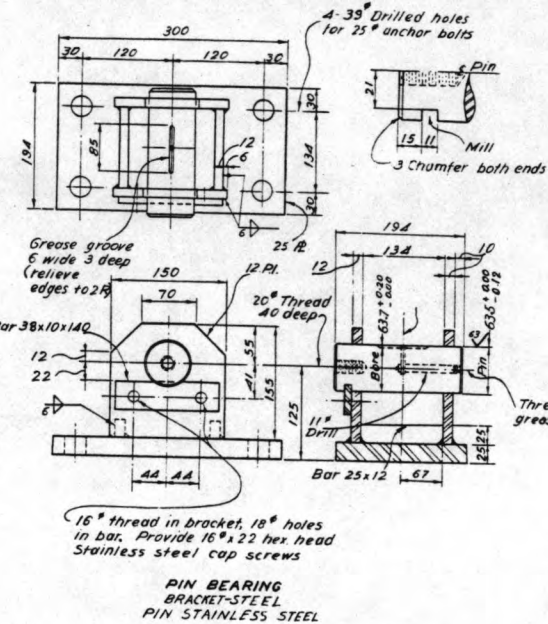
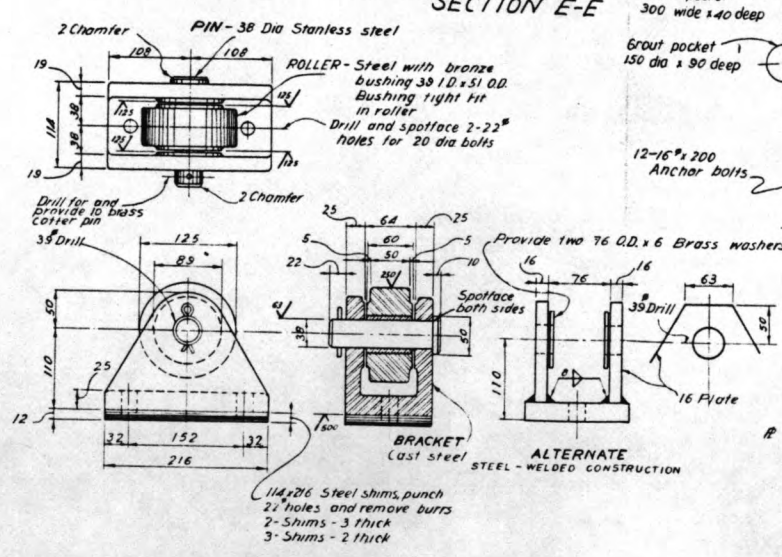
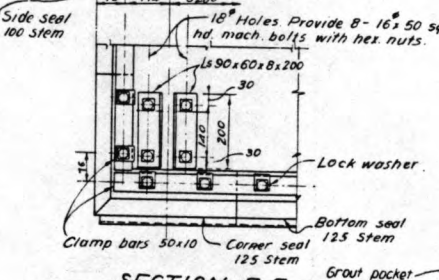
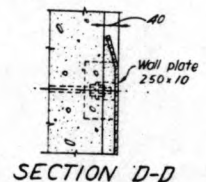
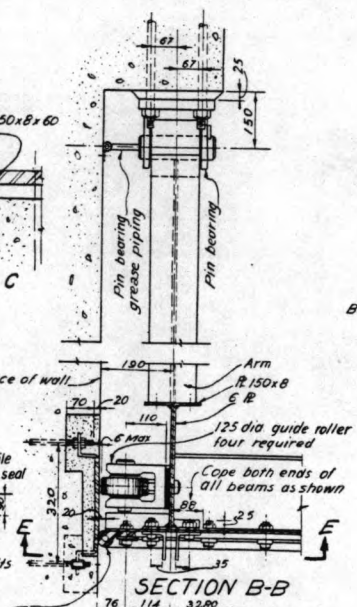
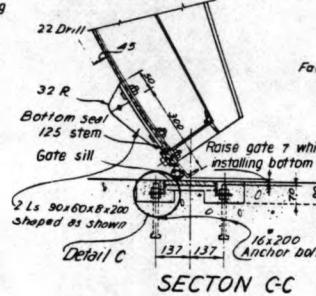
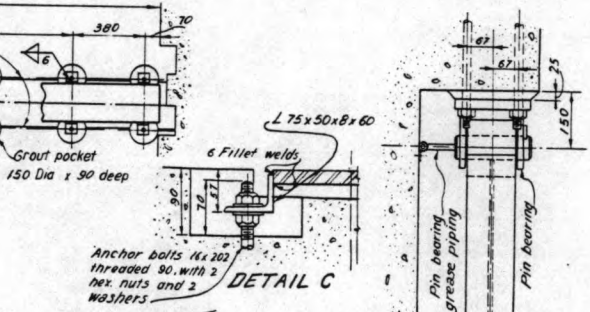
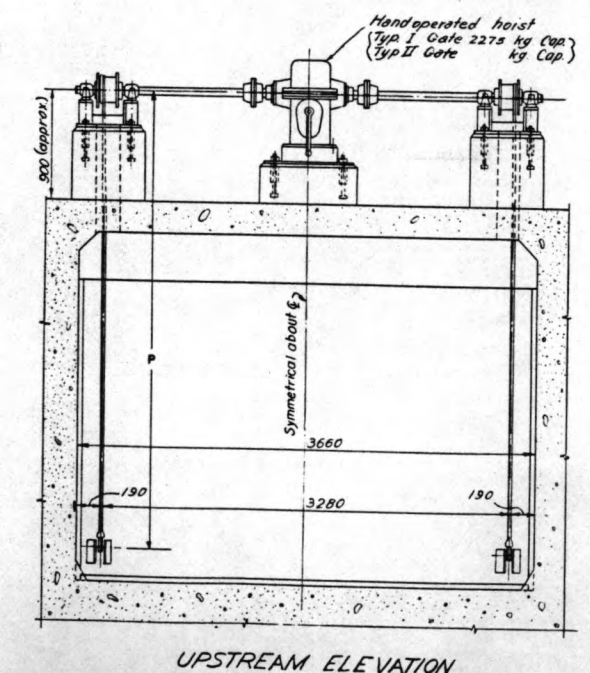
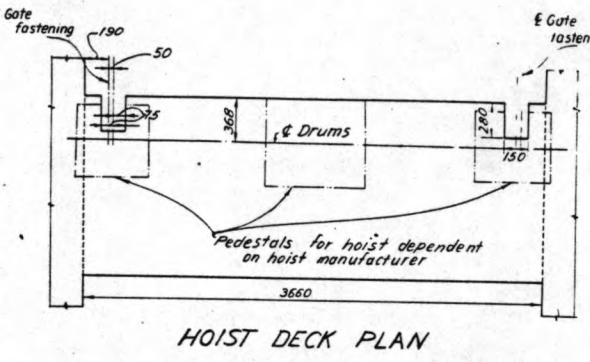
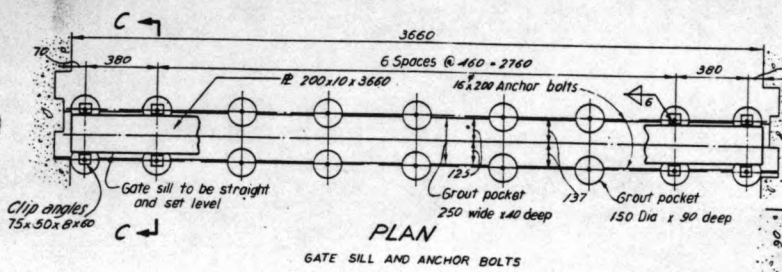
RADIAL GATE TYPE II AND HOIST ROPE DETAIL

APPROVED: [Signature]

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

AMMAN, JORDAN DATE: 1-9-1958 DWG. NO.

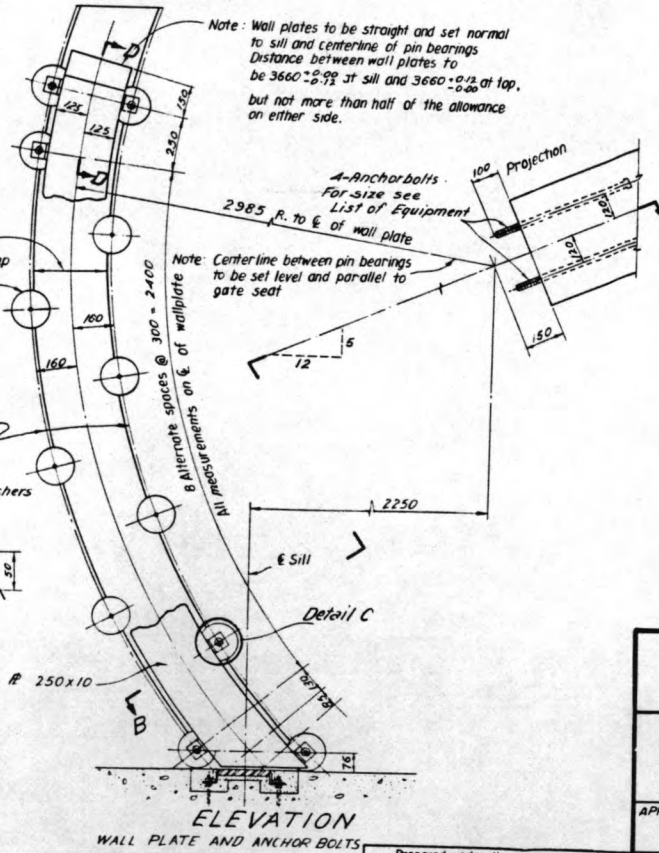
By	Date	Chkd	Date
Dsn.	1/11/58	NT	1/14/58
Drwn	1/14/58	NT	
Trac.			
Sub.			



MAXIMUM GATE HEIGHT H=2600
 TYPE I RADIAL GATE Y=2057
 TYPE II RADIAL GATE Y=1757

GREASE PIPING LIST OF PARTS
 (For one gate)

PART NO.	DESCRIPTION		NO. REQ'D
1	Pipe clamp	Steel	4
2	1/2" Two unit expansion anchor	Lead-Steel	4
3	1/2" x 60 Hex hd mach bolt	Steel	4
4	1/2" Std pipe random lengths threaded and coupled galv	Steel	2L+600
5	1/2" Std 90° elbow - galv	M.I.	2
6	1/2" Std pipe coupling - galv	M.I.	2
7	1/2" pipe thd hydraulic fitting	Steel	2



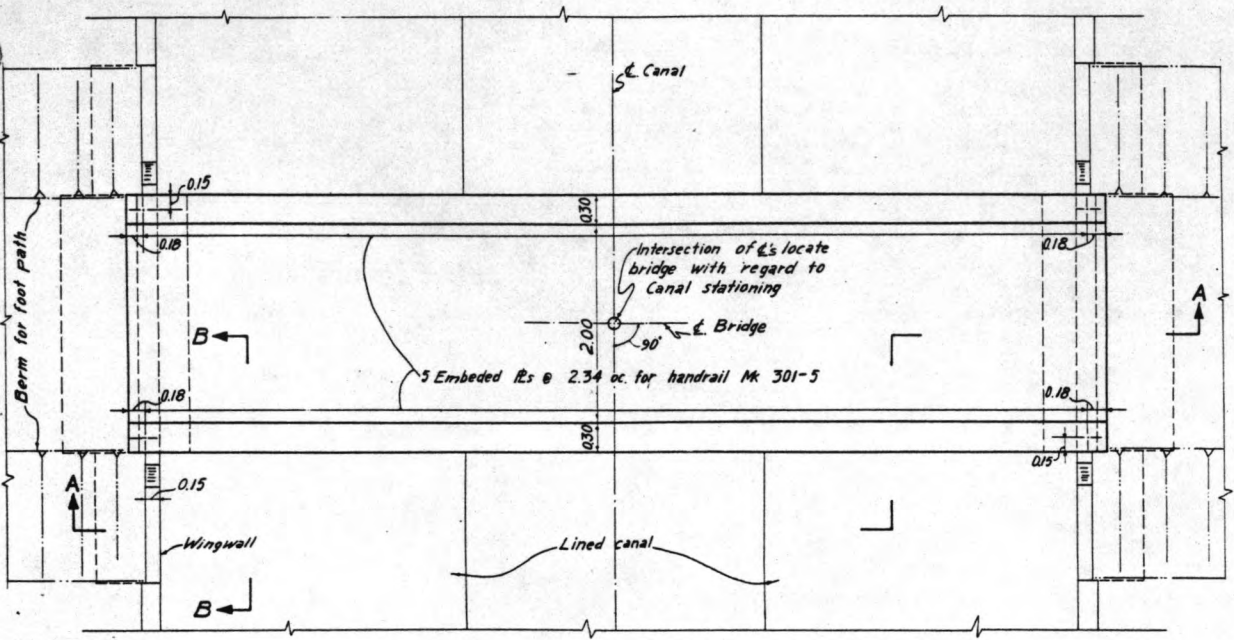
All dimensions in Millimeters
 Not to scale

HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME

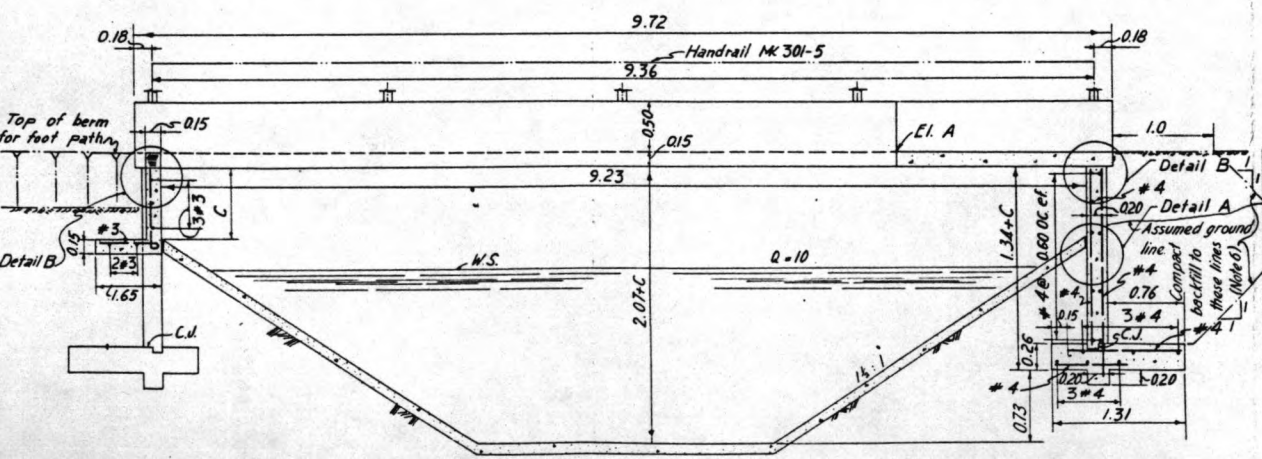
TYPICAL RADIAL GATE DETAILS

APPROVED [Signature]

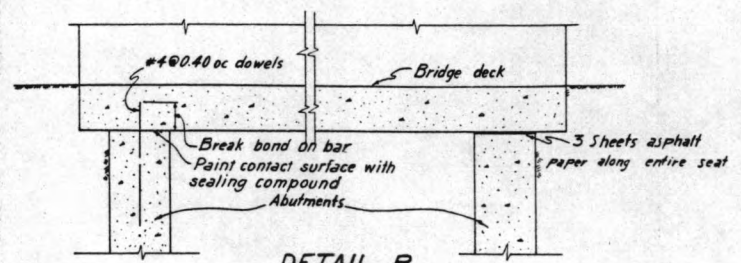
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Dsn. NT	11-14	AMH	11-14
Drwn. P. Y.	7.6.58	P. Y.	30.8.58
Trac.			
Sub.			



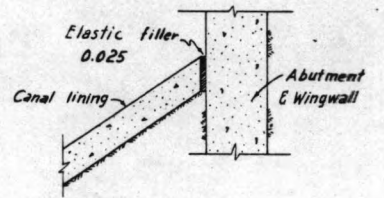
PLAN



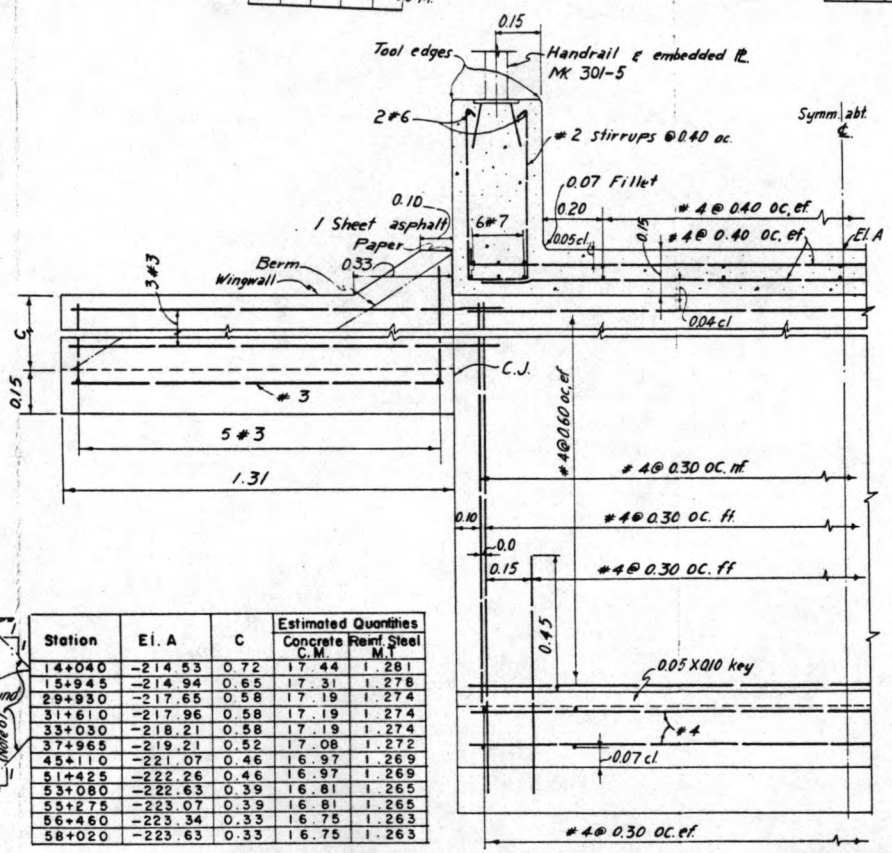
SECTION A-A



DETAIL B
Section thru abutment
Reinf. not shown
Scale 0 0.5 M.



DETAIL A
Reinf. not shown
Scale 0 0.5 M.



SECTION B-B
Scale 0 0.5 M.

Station	Elevations		Estimated Quantities	
	Ei. A	C	Concrete C.M.	Reinf. Steel M.
14+040	-214.53	0.72	17.44	1.281
15+945	-214.94	0.65	17.31	1.278
29+930	-217.65	0.58	17.19	1.274
31+610	-217.96	0.58	17.19	1.274
33+030	-218.21	0.58	17.19	1.274
37+965	-219.21	0.52	17.08	1.272
45+110	-221.07	0.46	16.97	1.269
51+425	-222.26	0.46	16.97	1.269
53+080	-222.63	0.39	16.81	1.265
55+275	-223.07	0.39	16.81	1.265
56+460	-223.34	0.33	16.75	1.263
58+020	-223.63	0.33	16.75	1.263

ESTIMATED QUANTITIES

Concrete Reinforcement } See schedule

REFERENCE DRAWINGS

Standard Details E6C/98
Plan and Profile E6C/12 to 49
Miscellaneous metals E6C/301

NOTES:

1. Clear cover for reinforcement is 0.05 unless otherwise noted.
2. Lap all bars 30 diameters at splices
3. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
4. Footings of abutments to be placed on undisturbed firm foundation or thoroughly compacted backfill.
5. Concrete design based on a compressive strength of 210 Kg. per sq. cm.
6. Backfill shall be to the original ground surface, and to a top width of 1 meter from the edge of the floor on a 1:1 slope to the original ground line; or, where the original ground line is above floor level, backfill to floor level only. All backfill to be compacted. See Section A-A.

Scale 0 1 2 M.
Except as noted

By	Date	Chkd	Date
D. B.	3/15/58	W. H.	4/1/58
Drwn	3/15/58	W. H.	4/1/58
Trec.			
Sub.			

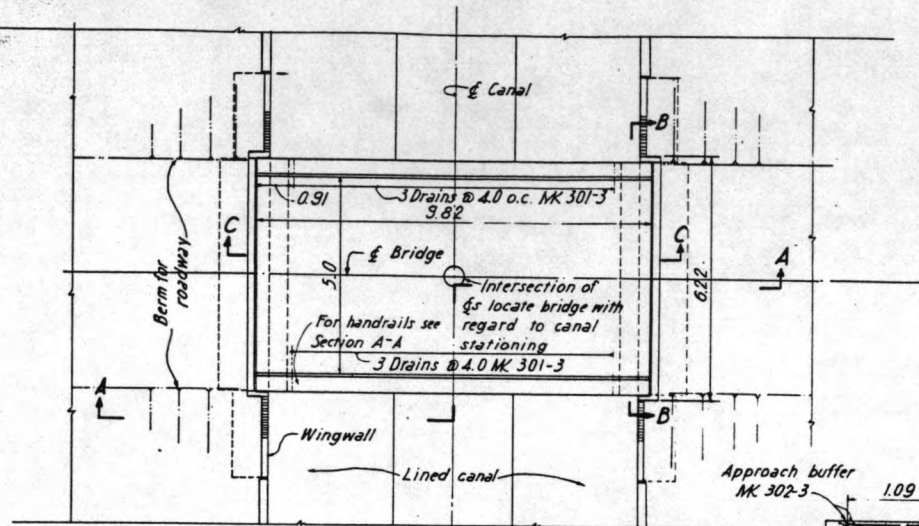
HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

TYPICAL FOOT BRIDGE

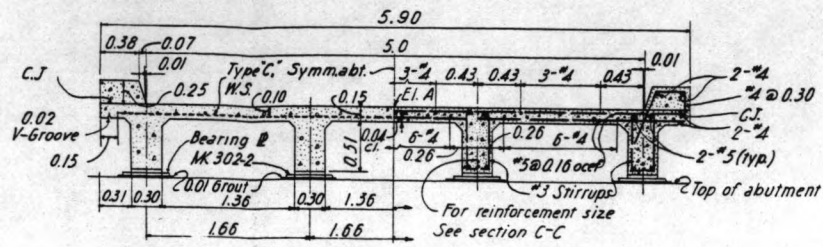
APPROVED: [Signature]

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

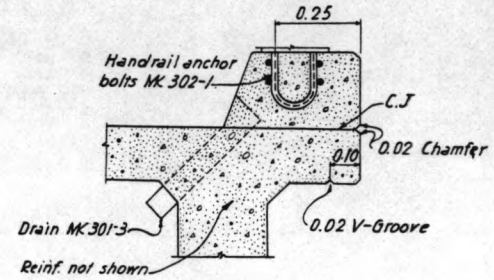
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/201



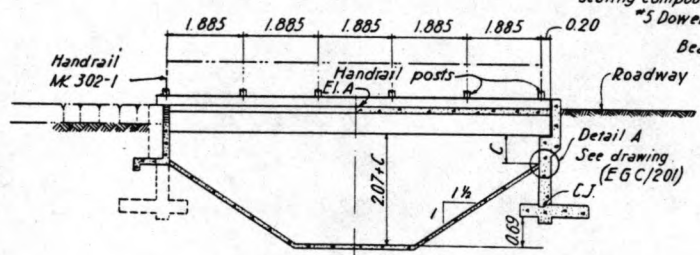
PLAN



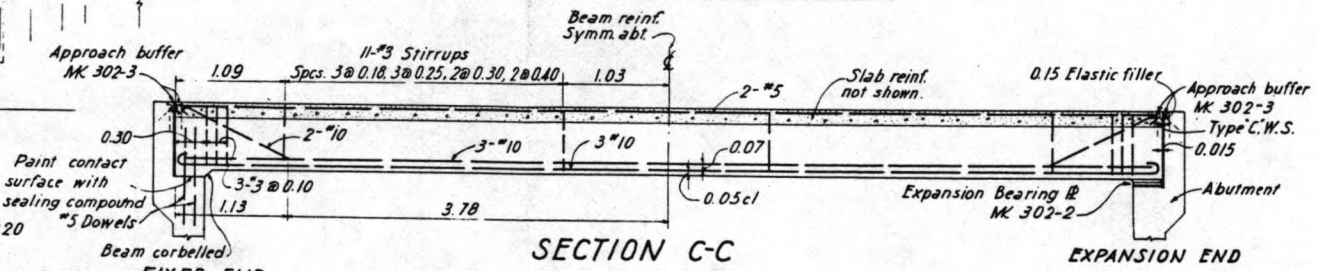
SECTION B-B



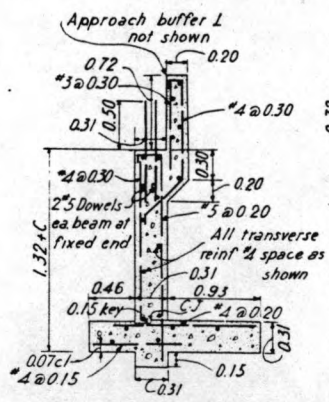
CURB DETAIL



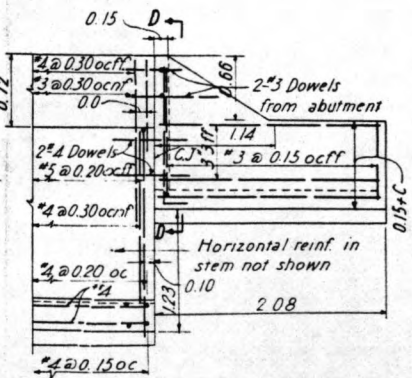
SECTION A-A



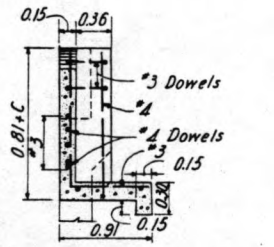
SECTION C-C



BRIDGE ABUTMENT



ELEVATION ABUTMENT-WINGWALL



SECTION D-D

SCHEDULE

Station	E.I. A	C	Estimated Quantities
			Concrete C.M. Reinf. Steel M.T.
3+110	-211.59	0.72	35.24 4.030
4+740	-211.89	0.72	35.24 4.030
6+585	-212.22	0.72	35.24 4.030
11+320	-213.50	0.72	35.24 4.030
16+915	-214.60	0.65	34.88 4.018
18+990	-214.99	0.65	34.88 4.018
20+565	-215.35	0.65	34.88 4.018
24+286	-216.13	0.58	34.52 4.008
36+820	-218.44	0.52	34.20 3.997
46+650	-220.84	0.46	33.91 3.987
54+290	-222.38	0.39	33.55 3.976
59+585	-223.53	0.26	32.89 3.954
62+260	-224.02	0.26	32.89 3.954

ESTIMATED QUANTITIES

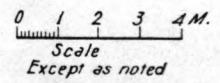
Concrete } See schedule
Reinforcement }

REFERENCE DRAWINGS

Standard Details EGC/98
Plan and Profile EGC/12 to 49
Miscellaneous Metals EGC/301 & 302

NOTES:

1. Bridge designed for 1 lane of H15-44 loading in accordance with "Standard Specifications for Highway Bridge the American Association of State Highway officials 1953 edition.
2. Clear cover for reinf. is 0.05 unless otherwise noted.
3. Lap all bars 30 diameters at splices.
4. All exposed edges of concrete to be chamfered 0.02 unless otherwise noted.
5. Footing of abutments to be placed on undisturbed firm foundation.
6. Concrete design based on a compressive strength of 210 Kg. per sq. cm.
7. For structure backfill see note 6 on dwg. EGC/201



HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME
SECONDARY ROAD
SQUARE HIGHWAY BRIDGE

APPROVED [Signature]

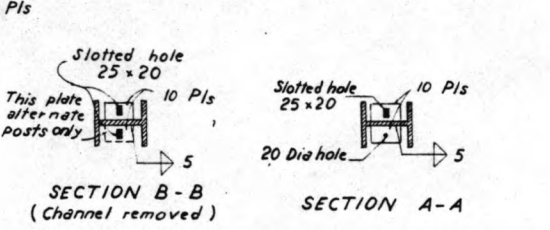
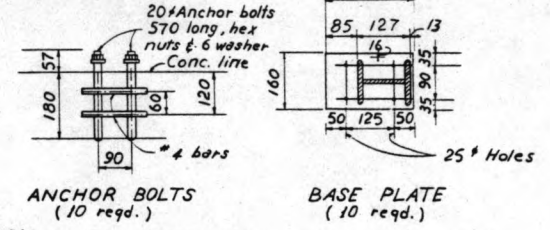
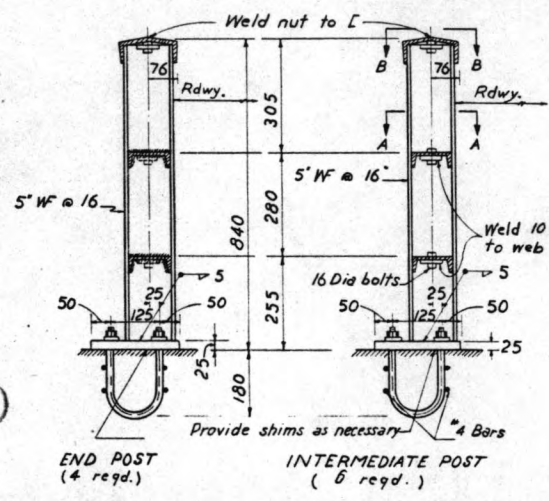
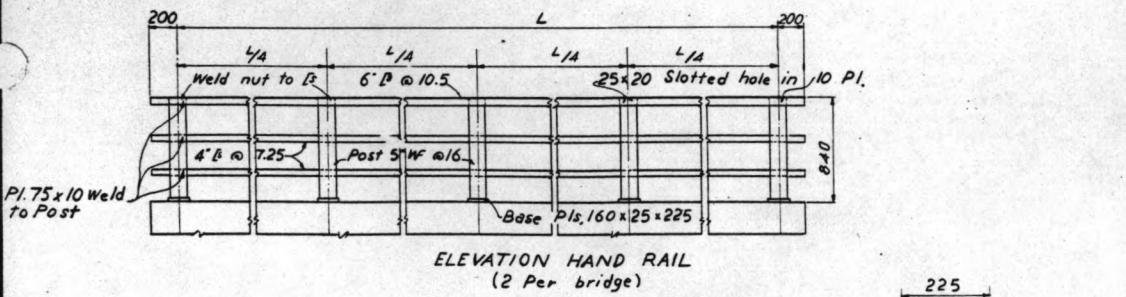
Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

AMMAN JORDAN

DATE 1-9-1958

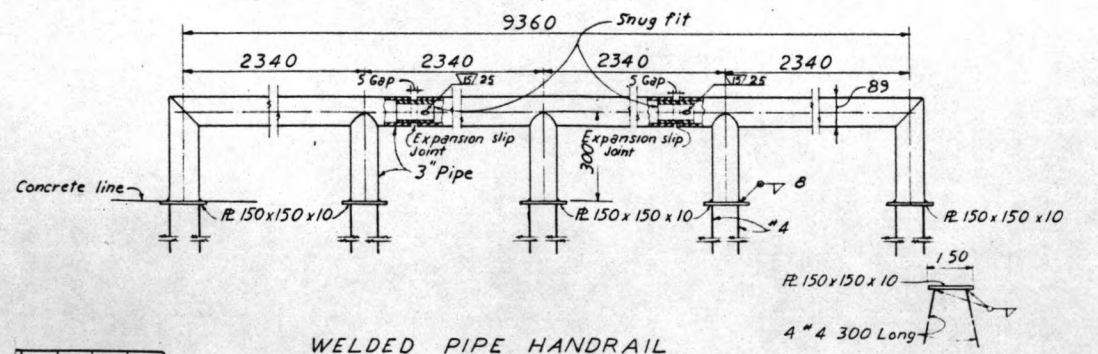
DWG. NO. EGC/203

By	Date	Chkd	Date
Dsn.	1/10/58	M.K.	1/10/58
Drwn.	1/10/58	M.K.	1/10/58
Trac.			
Sub			



HAND RAIL DETAILS

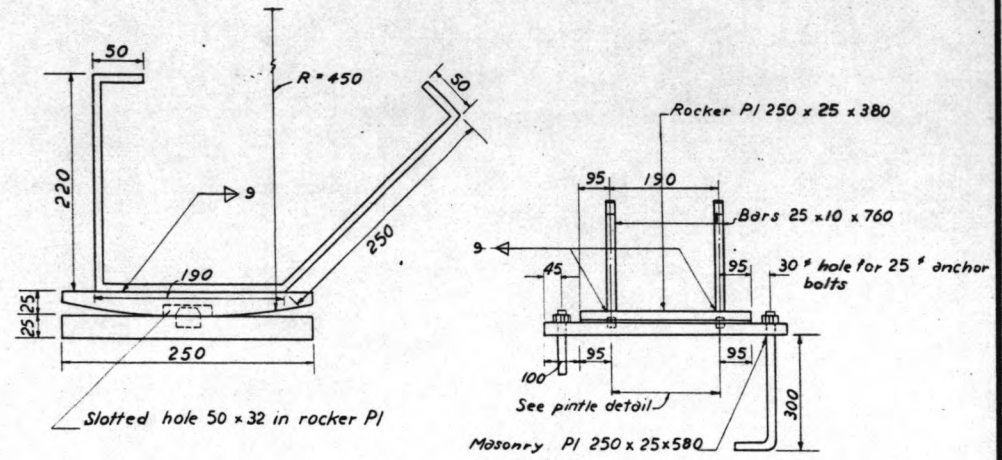
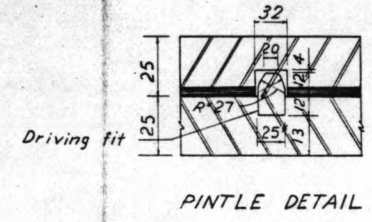
MK. 301-1 Square Highway Bridge (EGC/202) L=9420, 2 reqd.
 MK 301-7 Skew Highway Bridge (EGC/205) L=10920 2 reqd.



WELDED PIPE HANDRAIL

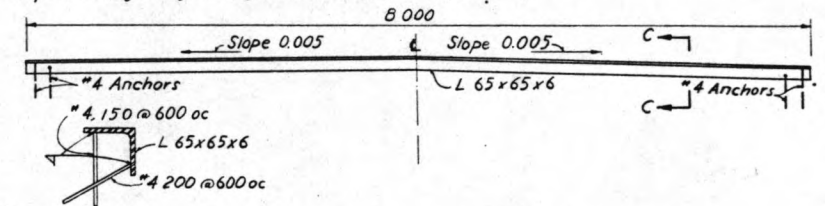
MK. 301-5 Foot Bridge (EGC/201) 2 reqd.

RE DETAIL



EXPANSION BEARING

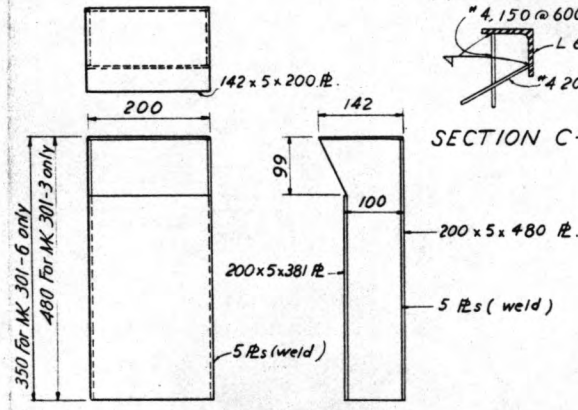
MK. 301-2 Square Highway Bridge (EGC/202) 5 reqd.



SECTION C-C

BRIDGE APPROACH BUFFER

MK.301-4 Square Highway Bridge (EGC/202) 4 reqd.



DRAIN DETAIL

MK. 301-3 Highway Bridge (EGC/202) 8 reqd.
 MK 301-3 Highway Bridge (EGC/203) 6 reqd.
 MK 301-3 Highway Bridge (EGC/203) 8 reqd.
 MK 301-6 Farm Bridge (EGC/20) 4 reqd.

NOTES:

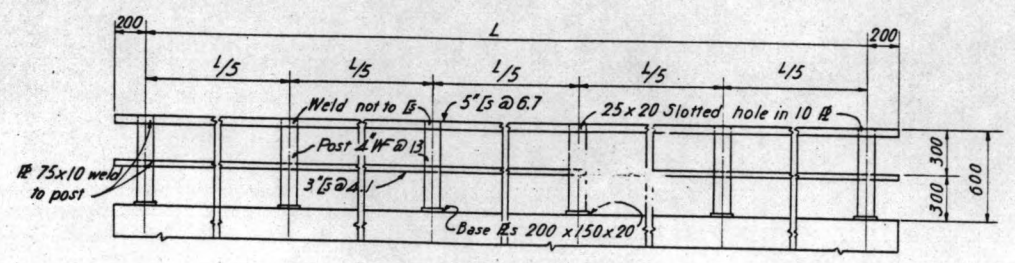
1. For key to welding symbols see EGC/98
2. All structural steel shapes other than plates and angles are designated in the inch system according to the Steel Construction Manual of the American Institute of Steel Construction.
3. All pipes to be standard weight black, of size specified.
4. Corners and edges of all plates and bars to be dressed smooth.
5. All dimensions are given in millimeters.
6. Material to be structural steel except as noted, see specifications.
7. For painting see specifications.

Not to scale

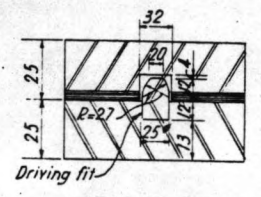
HASHEMITE KINGDOM OF JORDAN
 DEVELOPMENT BOARD
 EAST GHOR CANAL SCHEME
 MISCELLANEOUS METAL WORK
 SHEET 1

APPROVED: [Signature]

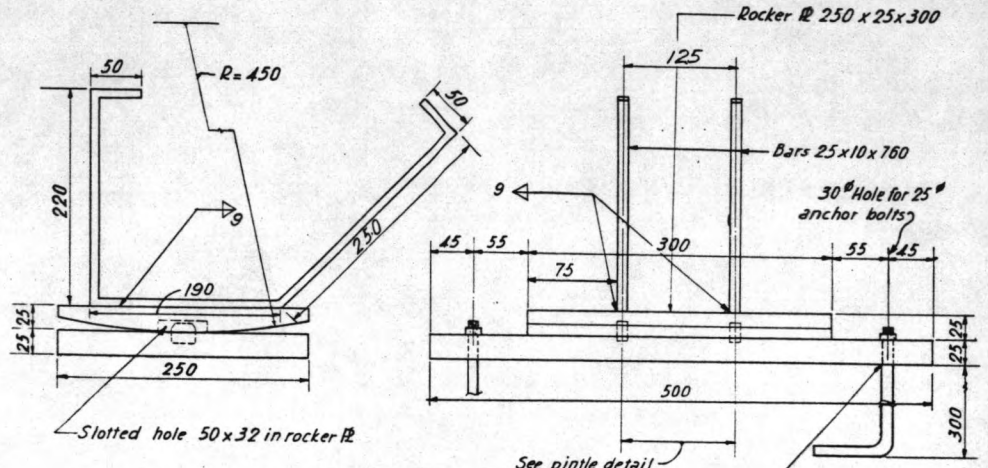
By	Date	Chkd	Date
Dsn			
Drwn	H.F. 1.4.58	M.K.	20.5.58
Trac.			
Sub			



ELEVATION HAND RAIL
(2 per bridge)

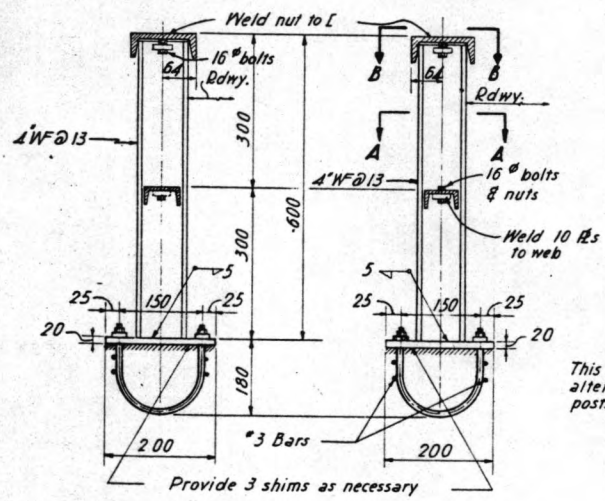


PINTLE DETAIL

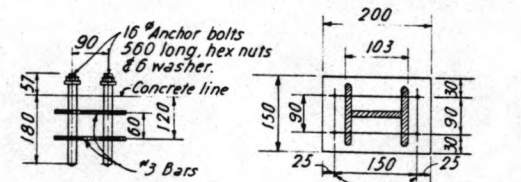


EXPANSION BEARING

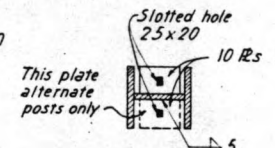
MK 302-2 Square Highway Bridge (EGC/203) 4 reqd.
MK 302-2 Square Farm Bridge (EGC/204) 2 reqd.



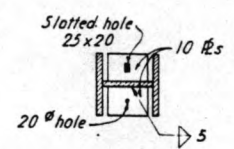
END POST (4 reqd.)
INTERMEDIATE POST (8 reqd.)



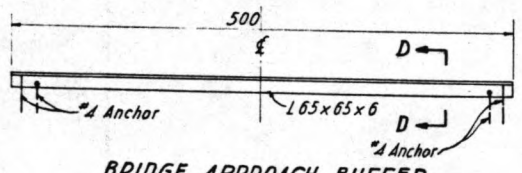
ANCHOR BOLTS (12 Reqd.)
BASE PLATE (12 Reqd.)



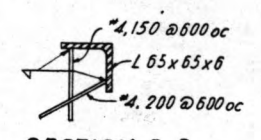
SECTION B-B
(Channel removed)



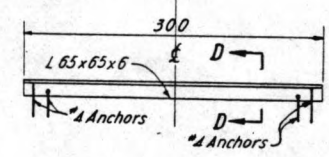
SECTION A-A



BRIDGE APPROACH BUFFER
MK 302-3 Square Highway Bridge (EGC/203) 4 reqd.

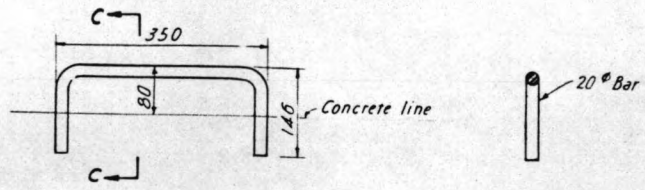


SECTION D-D



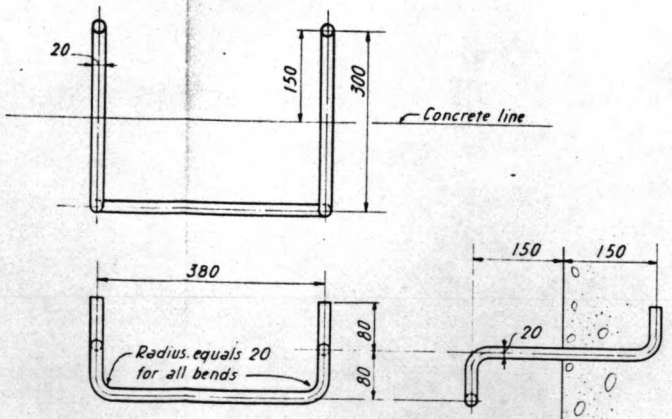
BRIDGE APPROACH BUFFER
MK 302-4 Square Farm Bridge (EGC/204) 4 reqd.

HAND RAIL DETAILS
MK 302-1 Square Highway Bridge (EGC/203) L=9420, 2 reqd.
MK 302-1 Square Farm Bridge (EGC/204) L=9420, 2 reqd.



LADDER RUNG
MK 302-5 Canal Ladder (EGC/100) 1350 reqd.

SECTION C-C



LADDER RUNG
MK 302-6 Canal Sluiceway, (EGC/143) 26 reqd.
MK 302-6 Intake structure, (EGC/101) 40 reqd.
MK 302-6 Siphons (EGC/119 & 132) 60 reqd.

NOTES:
Refer to dwg. EGC/301.

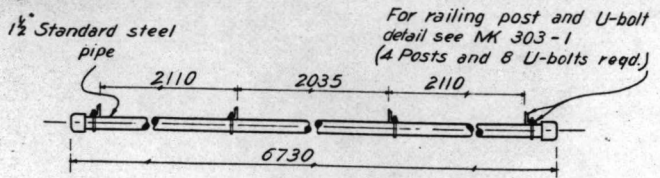
All Dimensions in millimeters
Not to scale

HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME
MISCELLANEOUS METAL WORK
SHEET 2

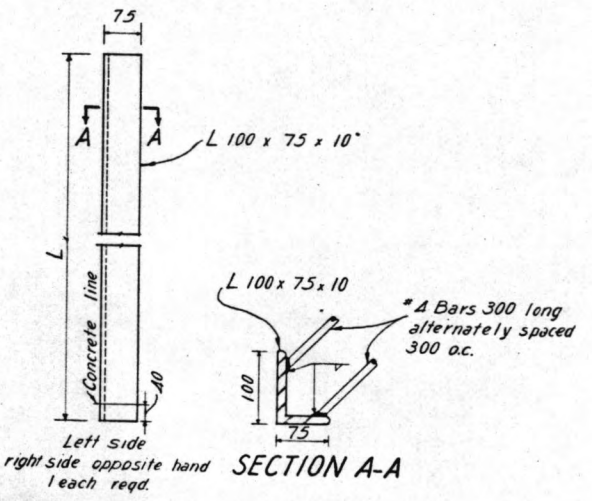
APPROVED: [Redacted]

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/302

By	Date	Chkd	Date
Dsn.			
Drw.			
Trac.			
Sub.			



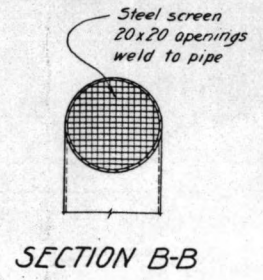
HANDRAIL
MK 306-1 Control Section and Drop EGC/104



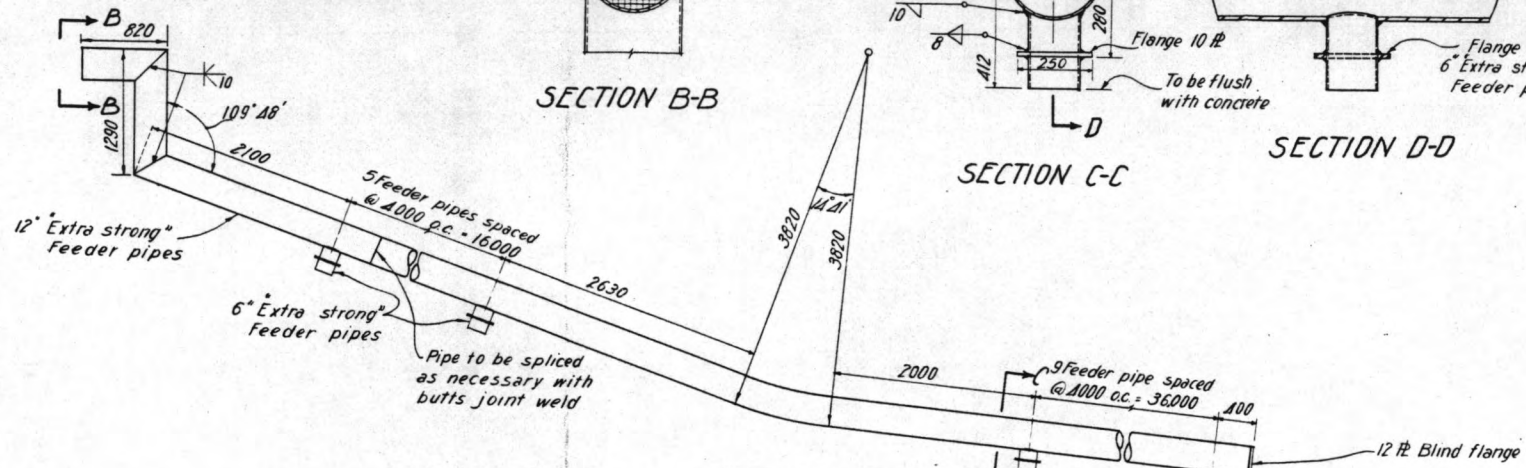
SECTION A-A

WASTEWAY STOP LOG GUIDES

MK 306-2	Wadi El-Arab Wasteway	(EGC/114A)	L - 2830
MK 306-2	Wadi El-Hisa Wasteway	(EGC/114B)	L - 3030
MK 306-2	Wadi El-Yabis Wasteway	(EGC/150)	L - 3030
MK 306-2	Wadi Abu-Kharrub Wasteway	(EGC/153)	L - 3030
MK 306-2	Wadi Rajib Wasteway	(EGC/155)	L - 3030
MK 306-2	Zarqa River Wasteway	(EGC/157)	L - 2860
MK 306-2	Wadi Bliwa Wasteway	(EGC/158)	L - 2860



SECTION B-B



ELEVATION SIPHON VENT PIPE
MK 306-3 River Zarqa Syphon EGC/131

NOTES:
Refer to drawing EGC/301

All dimensions in millimeters
Not to Scale

HASHEMITE KINGDOM OF JORDAN
DEVELOPMENT BOARD
EAST GHOR CANAL SCHEME

MISCELLANEOUS METAL WORK
SHEET 6

APPROVED _____

AMMAN, JORDAN DATE 1-9-1958 DWG. NO. EGC/306

Prepared under the supervision of
MICHAEL BAKER, JR., INC. &
HARZA ENGINEERING CO.

By	Date	Chkd	Date
Dsn.			
Drwn.	6/2/58	2/5/58	20-8-58
Trac.			
Sub.			