

XXX SR-730

4.91

November 20, 1975

James R. Grant, District Construction Engineer

J. F. Servaites, District Bridge Engineer, By: R. L. Eltzroth

Plan Error, Resteel, Project 442(75) Cowan Lake

This is to bring to your attention a forthcoming plan correction from the Columbus Bridge Bureau concerning reinforcing bars labelled F612 and F613. These bars are shown on Sheet 6/10 in Panels 1, 7 and 7A and Sheet 7/10 Section D-D and E-E. On Sheet 6/10 in Panel 1 no spacing is given for these bars; the spacings should be 2'-0" + for the F612 bars and 1'-0" + for the F613 bars. The total number of these bars in the reinforcing steel list on Sheet 10/10 should be revised to read: 24 - F612 and 45 - F613.

RLE
JFS:RLE:rm

cc: Koch
Copenhaver
File ✓

NOV 6 1975



Ohio Department of Natural Resources

OFFICE OF CHIEF ENGINEER
Fountain Square • Columbus, Ohio 43224 • (614) 466-4633

November 4, 1975

Ohio Department of Transportation
District 8
P.O. Box 272
Lebanon, Ohio 45036

Attention: William Hyre

Re: Cowan Lake Spillway Bridge S.R. 730-4.91

Gentlemen:

We have reviewed the request from the Maxon Company for additional temporary easement for the construction of the Cowan Lake Spillway channel under the S.R. 730 bridge. The proposed easement area is as shown on the attached map. We concur with the use of this area for construction access provided the following conditions are met:

- 1) The design and construction of the concrete flume should be approved by your District drainage personnel.
- 2) After the area has been regraded our office should be contacted so we can inspect the site. If the grading is satisfactory the disturbed area should then be seeded.
- 3) Settlement was noted on the last section of the existing south spillway wall. We request that the contractor fill the voids behind this section of wall using high slump concrete. Care should be taken not to damage the drainage tile located near the top of the wall.

The length of time for this temporary easement will be the same as for the construction contract which is now March 1, 1976.

If you have any questions please contact our office.

Sincerely,

[Signature]
JAMES A. SWARTZMILLER
CHIEF ENGINEER

JAS:bm

cc: Maxon Construction

*Don Stowers
Design Engr.*

[Handwritten mark]
0-7-1-0772

ROUTE SLIP

975

Date 11-19-75

To Joe Servantes

Room No.

- Approval
- Comment
- Necessary Action
- Note and Return
- Note and File
- Investigate and Report
- Signature
- See Me
- As Requested
- For Your Information
- Per Telephone Conversation
- For Your Reply Direct to Writer
- Prepare Reply for
- Note and Forward to

REMARKS

What are we going to do about Item 3? This is our problem not the contractors

Natural Resources

ENGINEER
224 • (614) 466-4633

November 4, 1975

on

S.R. 730-4.91

From J. Grant

Room No.

Form AU-33-10-5-72

from the Maxon Company
 for the construction
 of a flume under the S.R. 730
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 map. The use of this area for

construction access provided the following conditions are met:

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Sincerely,

[Signature]
 JAMES A. SWARTZMILLER
 CHIEF ENGINEER

JAS:bm

cc: Maxon Construction

Don

[Handwritten mark]

11-19-75

Project 442 (75)
Attendance List

Name	Co.	Phone
M. A. KINCH	ODOT - DET.	932-3030
Dan Stowers	ODNR	614-466-2860
Don Steffen	MAXON CONST	293-3131
W ^m T. Gachman	Maxon Const.	293-3131
Edward Highway	Div of Safety & Hygiene	742-0200
Roger O'Neil	ODNR COWARD Lake	289-2105
RICH ELTZROTH	ODOT BRIDGES	932-3030
Dale Barnhart	ODOT TRAFFIC	932-3030
Roy Koch	ODOT Construction	⁸⁶² 802 4576
Wm Hyre	ODOT Construction	932 3030

Get Sika brochure from Dan Stowers; he will call.

Ave Roy, Adam Marcum's telephone no.

Should wall footings be on fill? yes

Shale excavation, to footing or 1' away from it. Is shale considered rock or ~~unclassified~~.

Dumped rock fill; should shale be excavated to get 4' thickness? yes

Why is 808 in there, non-perform probably

CH- 730 - 4.91

10-24-75

FILL UNDER STRUCTURE : Fill under wall footings is permitted.

SHALE EXCAVATION : Quantities taken at edge of footers, not 1' away.

DUMPED ROCK FILL : There are places where it can be less than 4' thick. Don't excavate good shale just to get 4' thickness.

ITEM 808 : Standard item put in the project; probably will be non-performed.

Answers from : Adam J. Marcum

Phone 614-466-4319

Columbus, Bridge Bureau

and B. D. Honkiammi

Phone 614-466-2399

*Will you agree w/ this?
Joe.*

Re: Clinton County
S.R. 730 - 4.91
Project No. 442(1975)

November 3, 1975

MEMO TO FILE

The following clarification of the plan intent with regard to the items listed below are from conversation with Mr. Dowalter on October 30, 1975.

1. Shale excavation as listed in the Proposal shall be interpreted to be "rock" excavation with regard to construction methods and payment.
2. Based on letter from Bridge Bureau to District Bridge Engineer, the wall footings are to bear uniformly on shale. Mr. Dowalter confirmed the position of this office that they must be keyed a minimum of 3" into rock (shale) at the toe.
3. If this requires the bottom of footing to be lowered to accomplish the intent of (2), additional footing depth will be provided under the bid item for Class "C" concrete for footings up to a maximum of 1 foot.
4. If this lowering of the bottom of the footing would exceed the 1 foot listed above, the Project Engineer is to contact the District for further instructions. This decision will be based on the relative cost of alternatives to thickening the footing beyond 1 foot.

H. W. HYRE
District 8 Field Engineer
October 31, 1975

HWH:njg

CC: Mr. Hyre
Mr. Carpenter
Mr. Copenhaver
Mr. Serviates
Mr. Koch
File

xxx SR-730

4.91

November 5, 1975

James R. Grant, District Construction Engineer

~~Ray Koch~~

J. F. Servaites, District Bridge Engineer, By: R. L. Eltzroth

Drainage Details, Project 442(75)

Attached herewith is a plan showing the connection of the existing drainage pipes behind the spillway walls to the proposed drainage system behind the flume walls. This arrangement was discussed with Mr. Grant at the site on this date.

JFS:RLE:rm

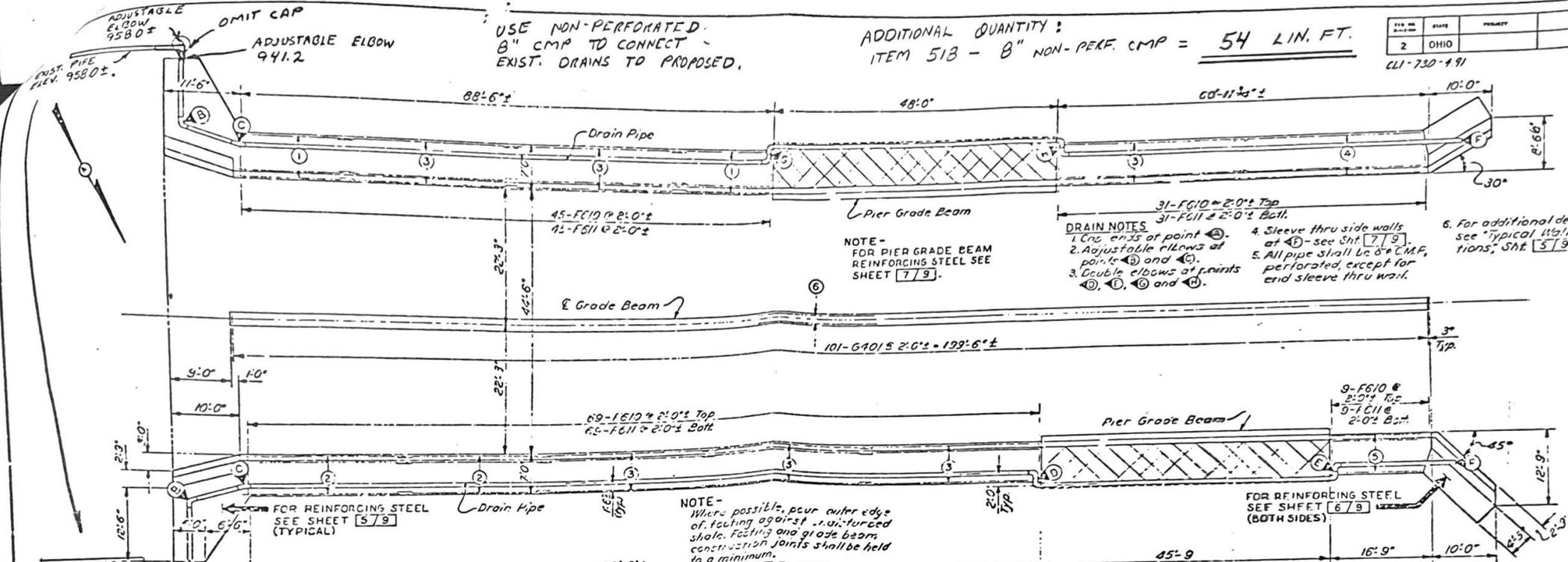
Copenhaver (10 copies)

cc: File ✓



USE NON-PERFORATED 8" CMP TO CONNECT EXIST. DRAINS TO PROPOSED.

ADDITIONAL QUANTITY:
ITEM 518 - 8" NON-PERF. CMP = 54 LIN. FT.



DRAIN NOTES

1. Conc. ends at point (A).
2. Adjustable elbows at points (B) and (C).
3. Double elbows at points (D), (E), (G) and (H).
4. Sleeve thru side walls at (E) - see Sht. [7] 9.
5. All pipe shall be 8" dia. C.H.F., perforated, except for end sleeve thru wall.

6. For additional details see 'Typical Wall Sections,' Sht. [5] 9.

NOTE - FOR PIER GRADE BEAM REINFORCING STEEL SEE SHEET [7] 9.

NOTE - Where possible, pour outer edge of footing against un-augmented shale. Footing and grade beam construction joints shall be held to a minimum.

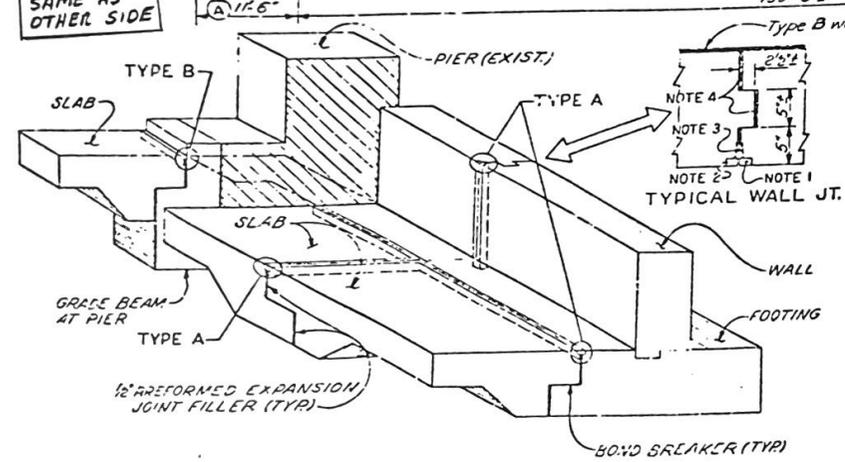
FOR REINFORCING STEEL SEE SHEET [6] 9 (BOTH SIDES)

FOOTING AND DRAIN PLAN

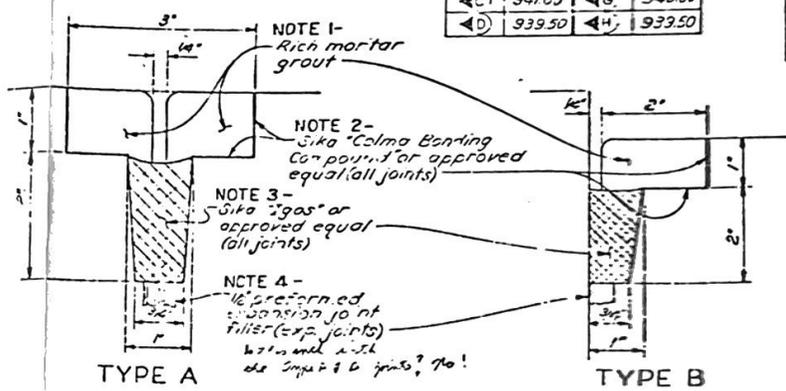
BACKFILL DRAIN			
POINT	ELEV.	POINT	ELEV.
(A)	941.20	(E)	939.10
(B)	941.10	(F)	938.50
(C)	941.00	(G)	945.00
(D)	939.50	(H)	939.50

FOOTING REINFORCING #						
MARK	(1)	(2)	(3)	(4)	(5)	(6)
BAR	F502	F503	F504	F505	F506	G505
NO. TOP	5	5	5	5	5	3
NO. BOTT.	6	6	6	6	6	3
TOTAL	22	22	66	11	11	42

* Longitudinal - in normal footing and E Grade Beam.



TYPICAL JOINT TREATMENT DETAILS



FOOTINGS AND DRAIN PLAN & JOINT TREATMENT DETAILS					
COWAN CREEK OUTFLOW UNDER CLI-730-0491					
DESIGNED	DRAWN	CHECKED	APPROVED	DATE	REVISION
AJM	AJM	GEA	SFG	1-14-15	

CLI-730-0491
PROJECT 442(75)
CHANGE ORDER
11-5-75

xxx SR-730

4.91

November 18, 1975

James R. Grant, District Construction Engineer

~~Ray Koch~~

J. F. Servaites, District Bridge Engineer, By: R. L. Eltzroth

Additional Drainage Details, Project 442(75), Cowan Lake

Attached herewith are sheets showing additional 8" corrugated metal pipe that we recommend to be used on the above project. We have conferred with Ray Keller and Adam Marcum (Bridge Bureau designer who drew the construction plans) about this extra work and they agree that it is needed. The work involves extending an existing CMP bridge deck drain at approximate STA. 2+00, 40' RT. so that it will drain into the proposed concrete flume instead of behind it.

JFS:RLE:rm

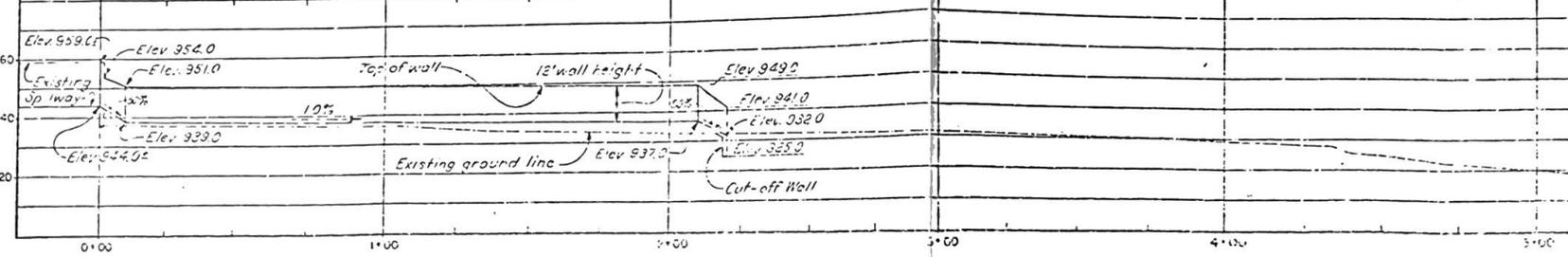
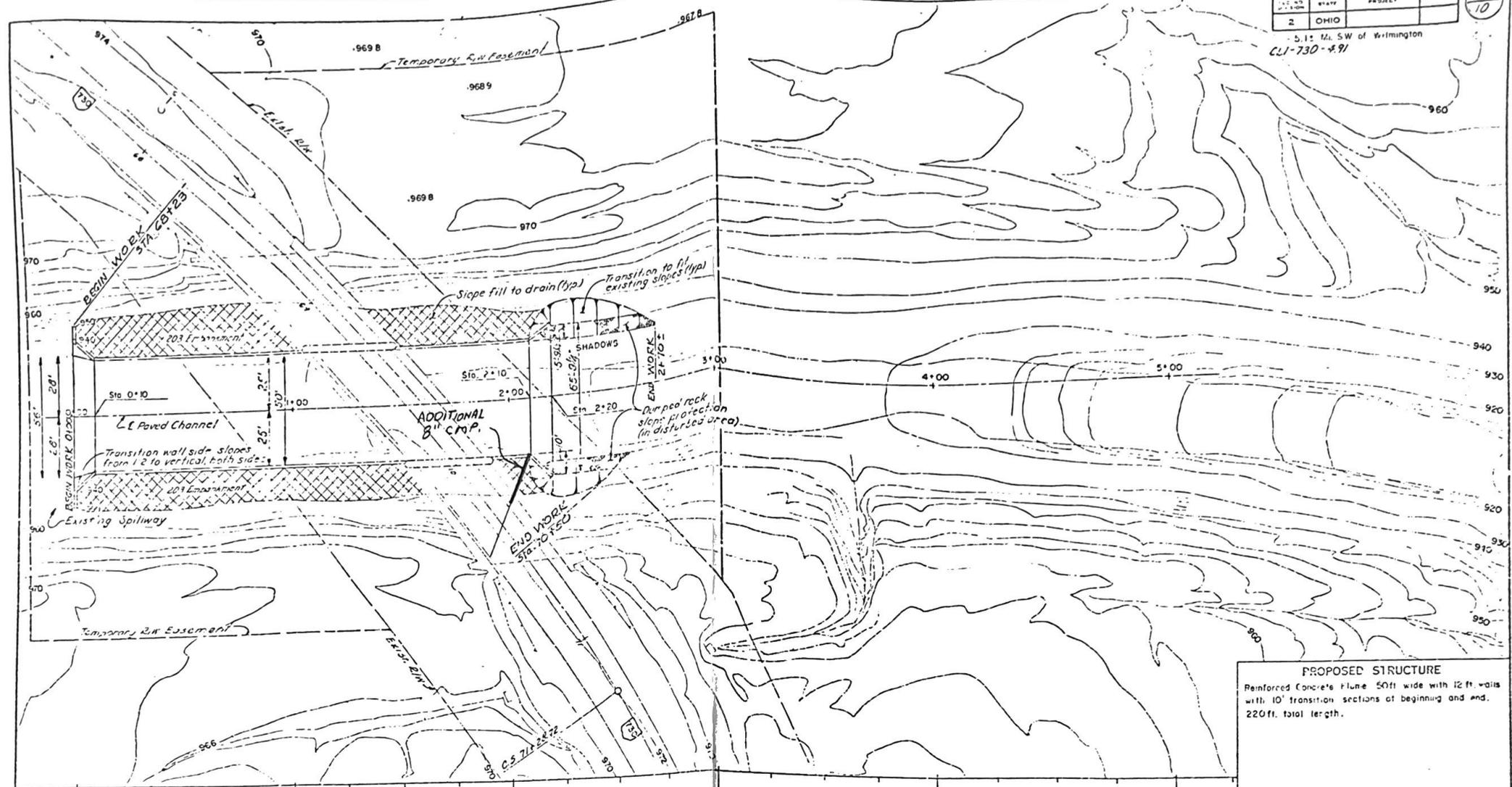
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cc: File ✓

EXIST. CMP.



CL1-730-0491



PROPOSED STRUCTURE
 Reinforced Concrete Flume 50ft wide with 12 ft. walls with 10' transition sections at beginning and end. 220 ft. total length.

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. CL-730-491
 OVER COWAN LAKE SPILLWAY
 CLINTON COUNTY SR-730
 STA.

SCALE 1" = 20'	DATE	DESIGNED BY	CHECKED BY	REVISION

960

STA. 2+08 APPROX.

955

950

945

940

935

930

4

5

10

15

20

25

30

35

40

45

50

55

60 RT.

NEW Y SECTION OF
CMP. WITH CAPPED END
SO THAT PIPE CAN
BE CLEANED OUT

FROM BRIDGE
DECK

REMOVE

CUT EXIST. 8" CMP,
HERE

NEW 8" NON-PERF. CMP.

TOP OF
EMBANKMENT

1'-0" MIN.

FORM AROUND
NEW 8" CMP.

NEW
ADJUSTABLE
ELBOW

NEW 8" NON-PERF.
CMP.

ADDITIONAL QUANTITY :

ITEM 518- 8" NON-PERFORATED
CMP, INCL. SPEC., 707.01, BITUMINOUS
COATED AS PER 707.04
= 28 LIN. FT.

CLI-730-0491

RLE 11-18-75