



- SCALE 1"=400'
- 
- A horizontal graphic scale bar with tick marks. The numbers 400, 0, 400, and 800 are placed below the bar. The bar is divided into segments, with the first segment from 400 to 0 being shaded.

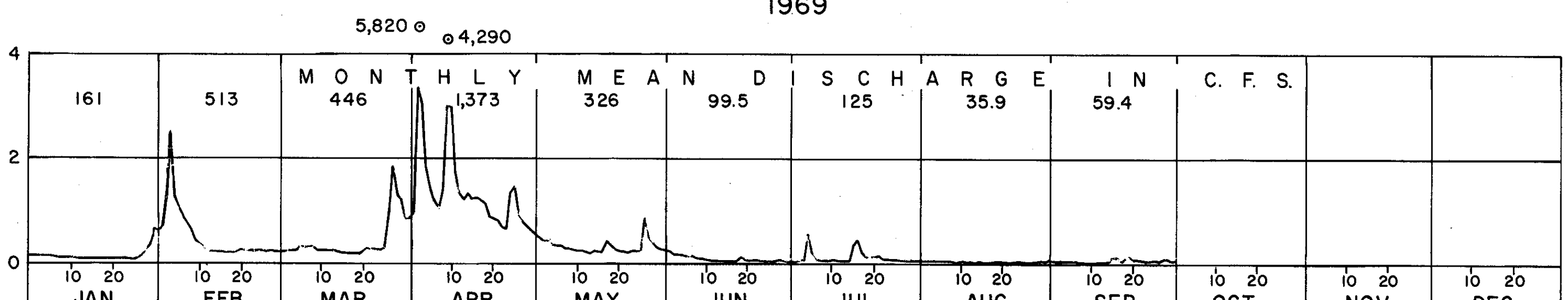
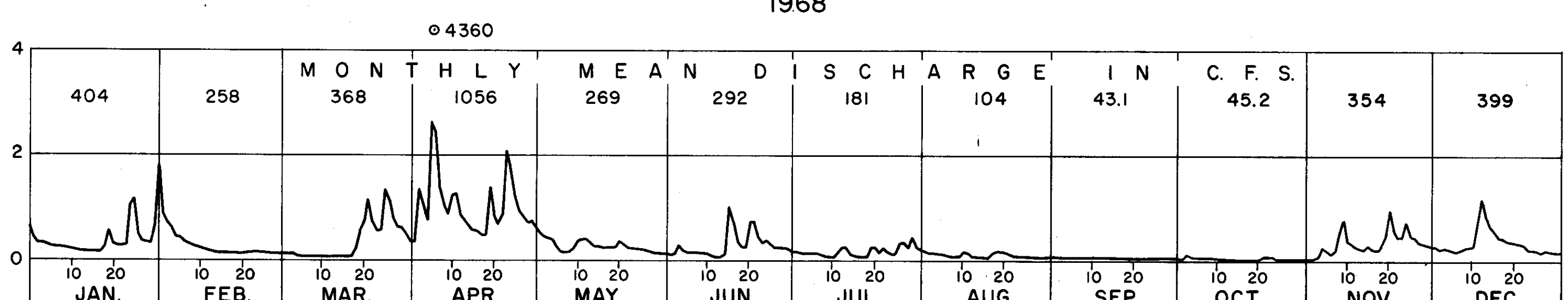
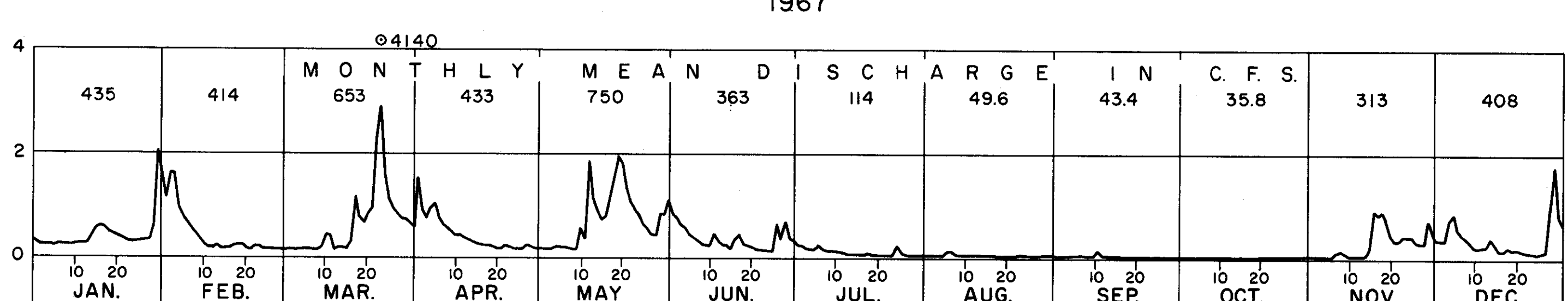
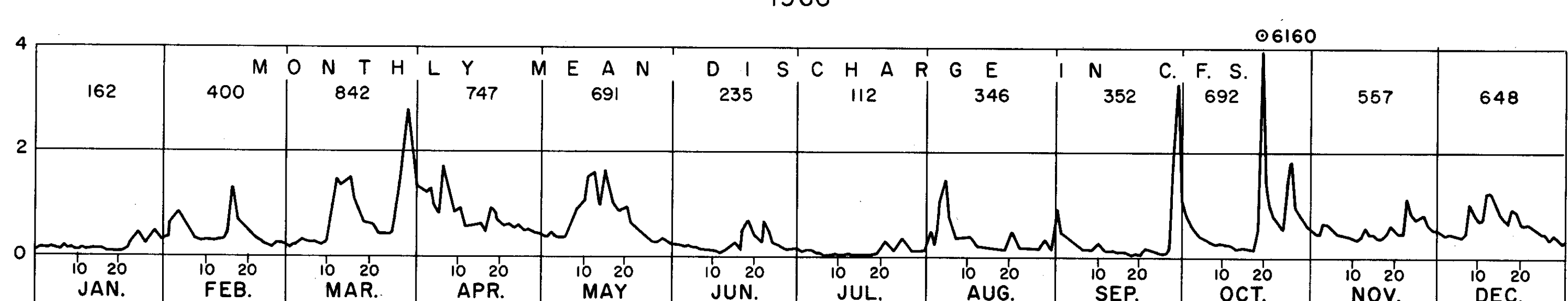
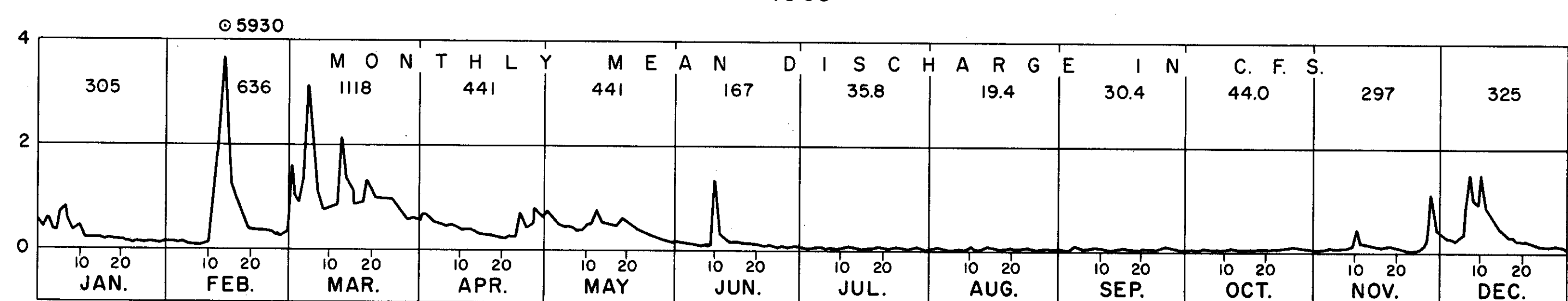
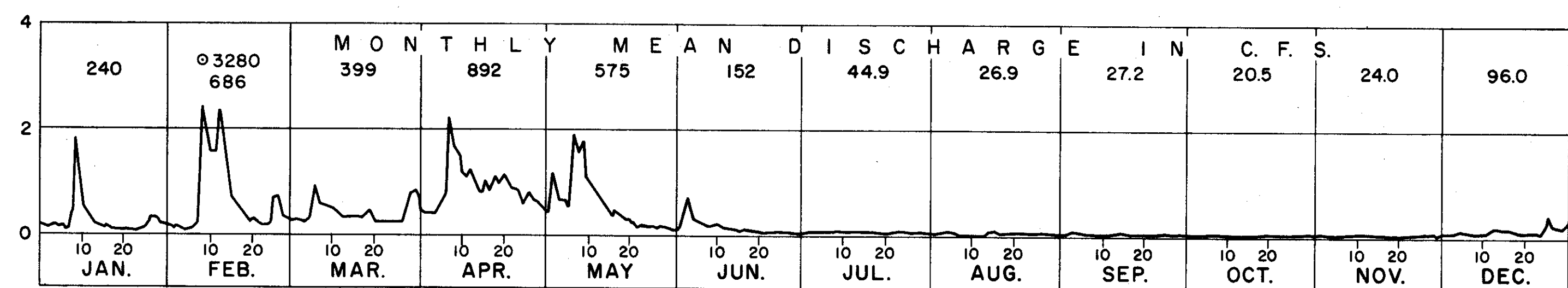
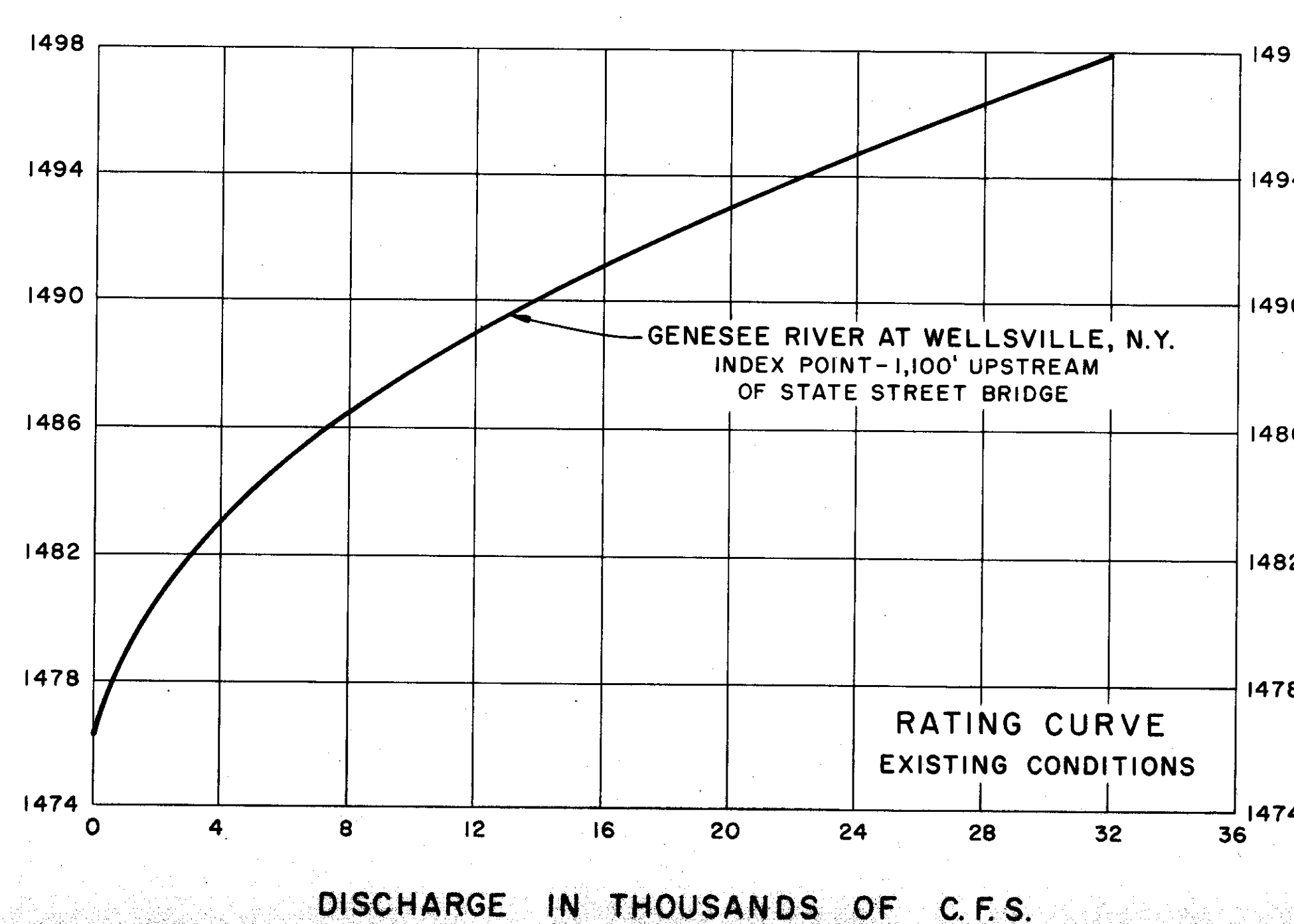
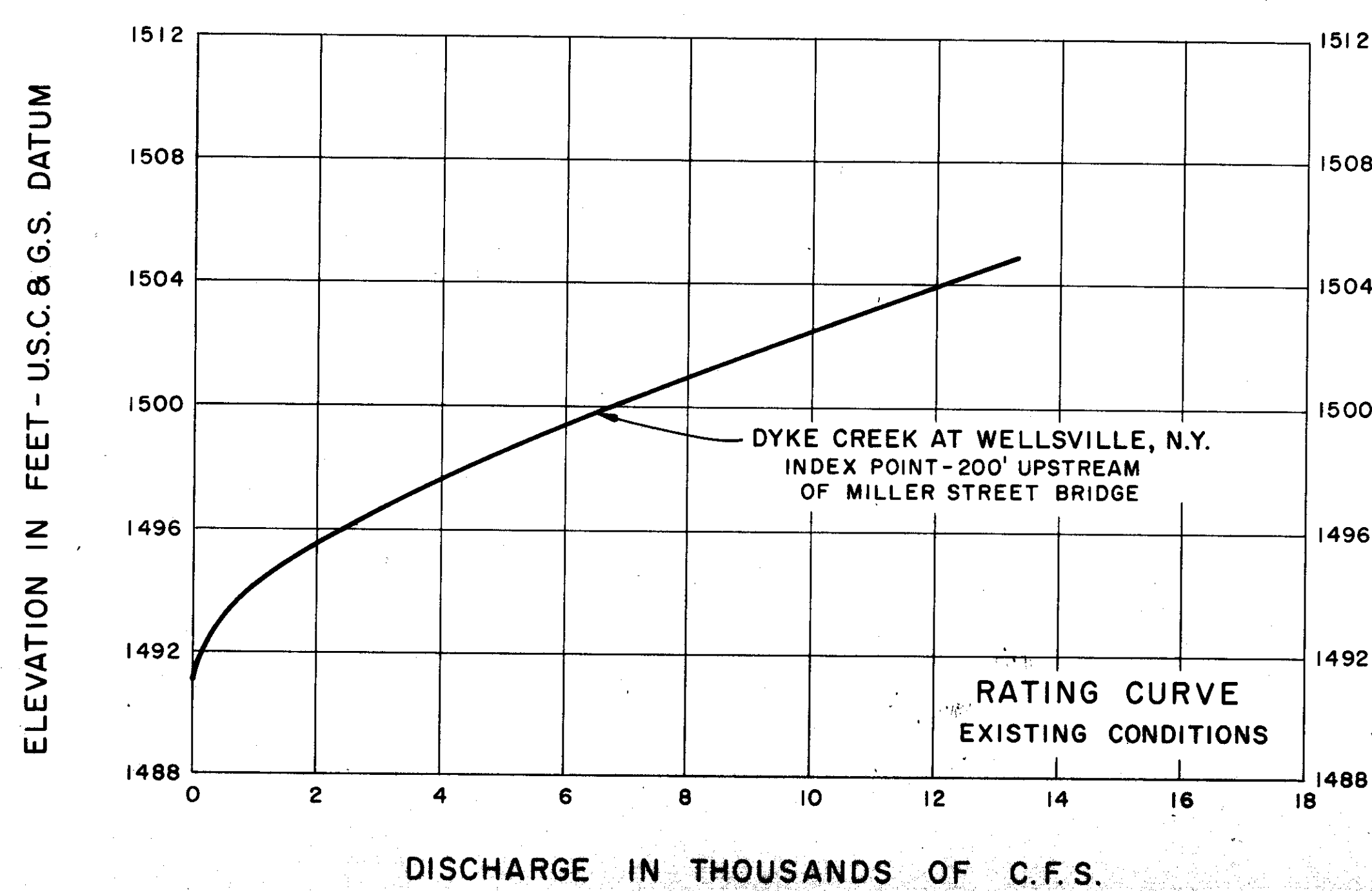
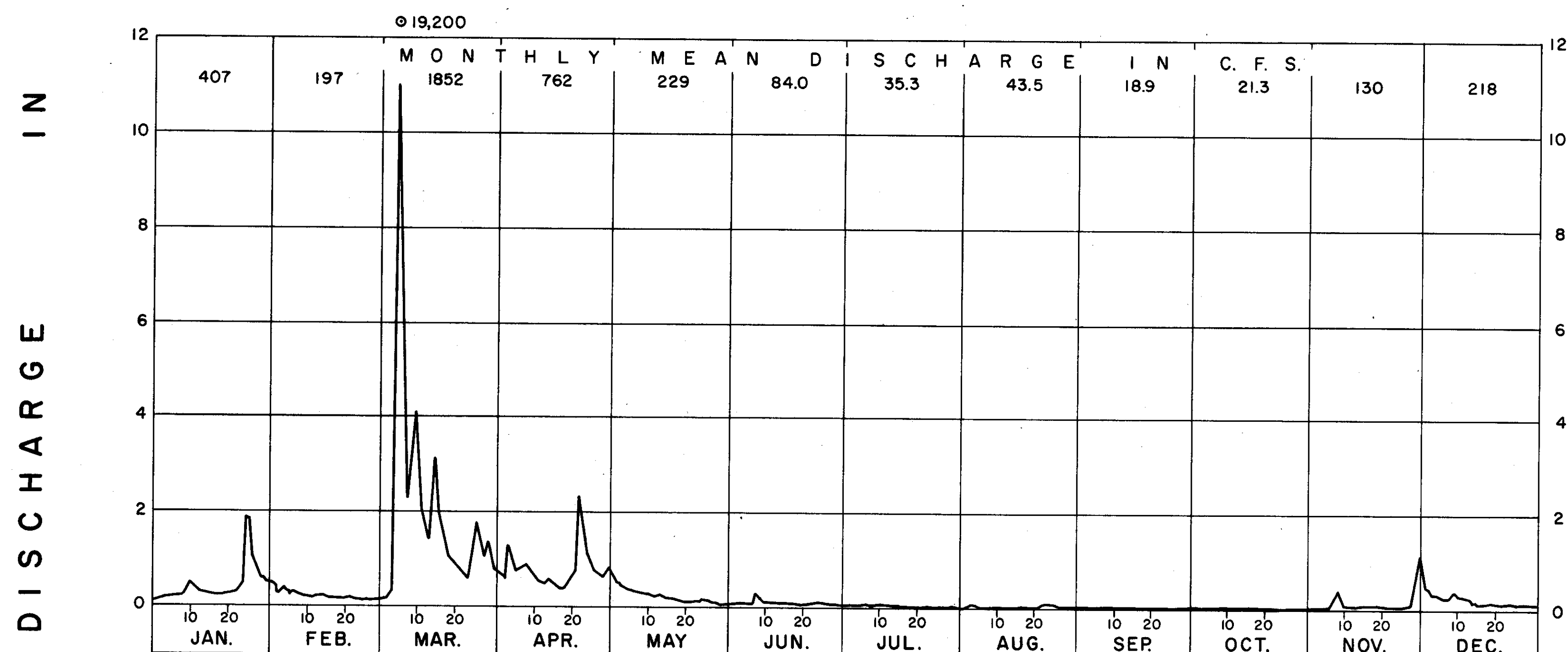
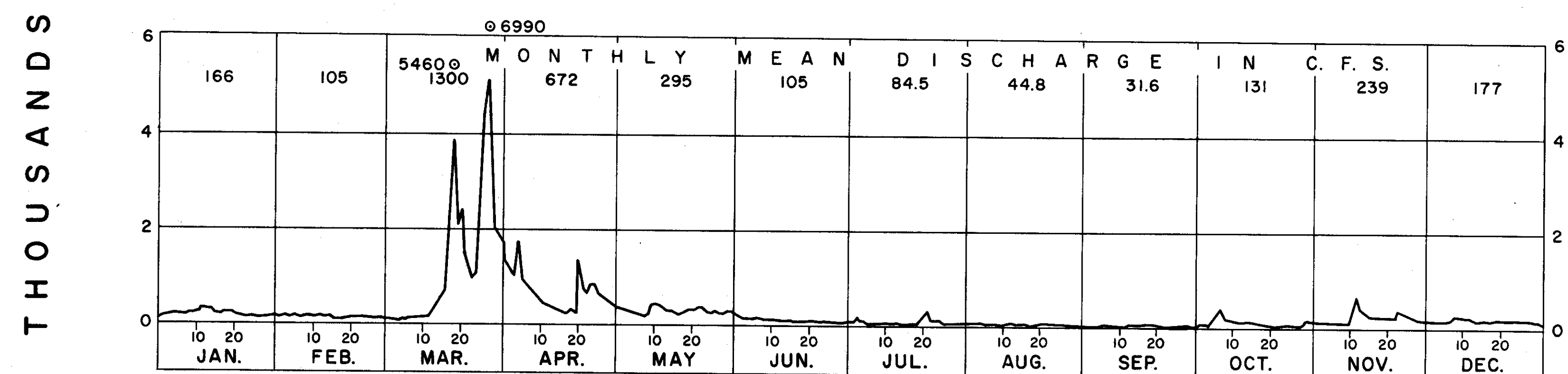
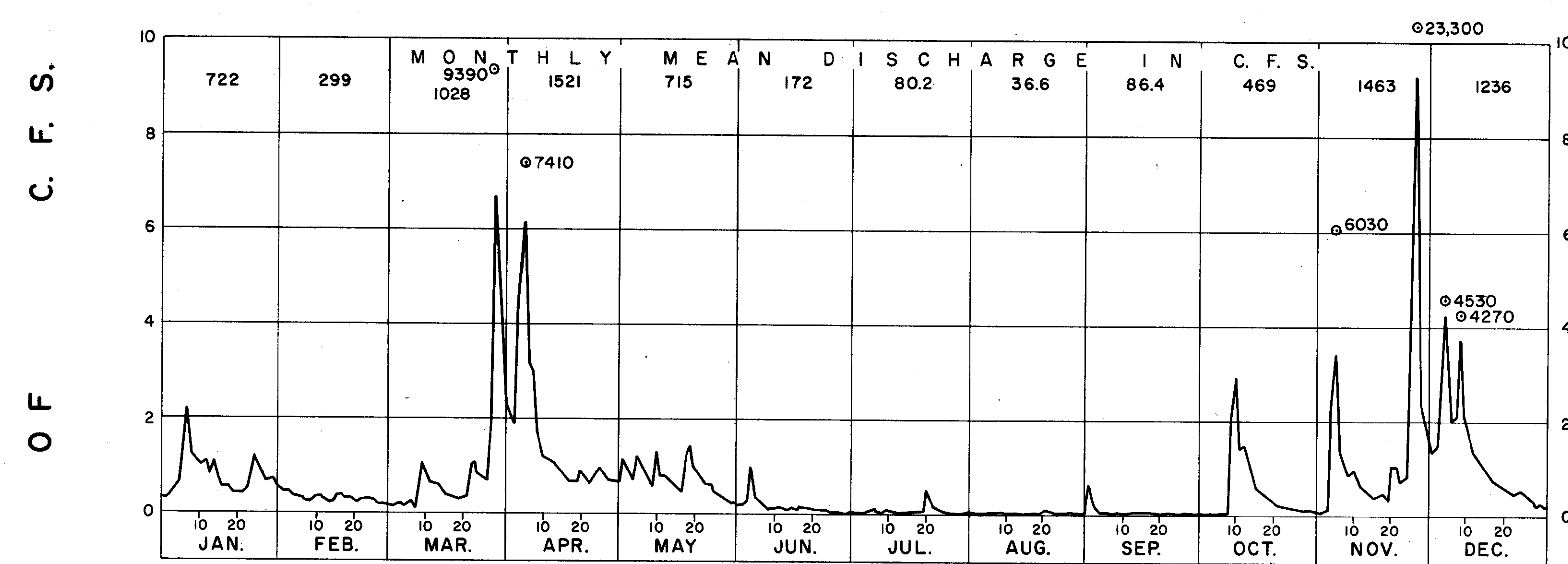


GENERAL NOTES:

AS CONSTRUCTED

[illegible]





**AS CONSTRUCTED**

SUBMITTED: *[Signature]* APPROVED: *[Signature]*  
CHIEF CONSTRUCTION-OPERATIONS DIVISION COL., C.E. DISTRICT ENGINEER

**NOTES:**

DISCHARGE MEASURED AT GAGE LOCATED ON LEFT BANK 0.4 MILE UPSTREAM FROM VANDERMARK CREEK AND 0.75 MILE UPSTREAM FROM SCIO, ALLEGANY COUNTY, NEW YORK.

DRAINAGE AREAS:

1. GENESEE RIVER AT SCIO EQUALS 309 SQ. MILES.
2. GENESEE RIVER AT WELLSVILLE EQUALS 288 SQ. MILES.
3. GENESEE RIVER ABOVE CONFLUENCE OF DYKE CREEK EQUALS 216 SQ. MILES.
4. DYKE CREEK AT CONFLUENCE WITH GENESEE RIVER EQUALS 72 SQ. MILES.

**LEGEND:**

②3,300---INSTANTANEOUS MAXIMUM DISCHARGE IN C.F.S.  
C.F.S.---CUBIC FEET PER SECOND

REVISION	DATE	DESCRIPTION	BY

**U.S. ARMY ENGINEER DISTRICT, BUFFALO**  
CORPS OF ENGINEERS  
BUFFALO, NEW YORK 14207

**LOCAL FLOOD PROTECTION**  
WELLSVILLE, NEW YORK  
**GENERAL**

**HYDROGRAPHS AND RATING CURVES**

DRAWN BY: A.F.R.  
DESIGNED BY: C.R.C.  
CHECKED BY: S.A.M.  
SUBMITTED BY: *[Signature]*  
CHIEF, HYDRAULICS BRANCH

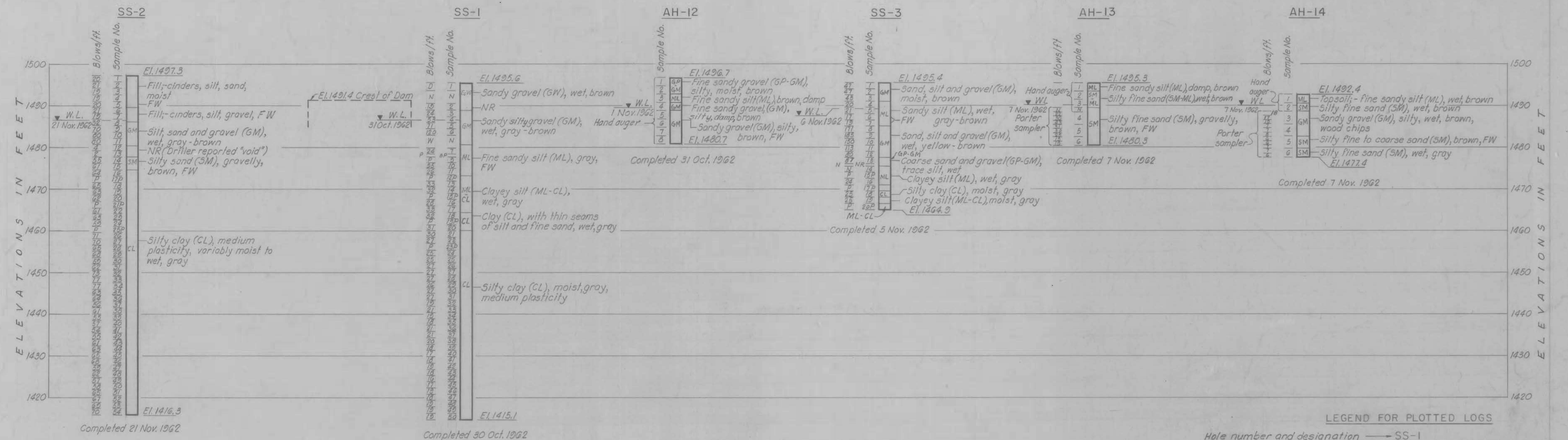
APPROVAL RECOMMENDED: *[Signature]*  
CHIEF, ENGINEERING DIVISION

APPROVED: *[Signature]* DATE: 19 APRIL 1973  
COL., C.E. DISTRICT ENGINEER

TO ACCOMPANY SPECIFICATIONS SERIAL NO. DACW 49 73 B 0070

SCALE: AS SHOWN  
DRAWING NUMBER 189-WEL-1/2  
SHEET 2 OF 13





**LEGEND FOR PLOTTED LOGS**

Hole number and designation → SS-1

Sample number → 1

Blow count on sampler → 13

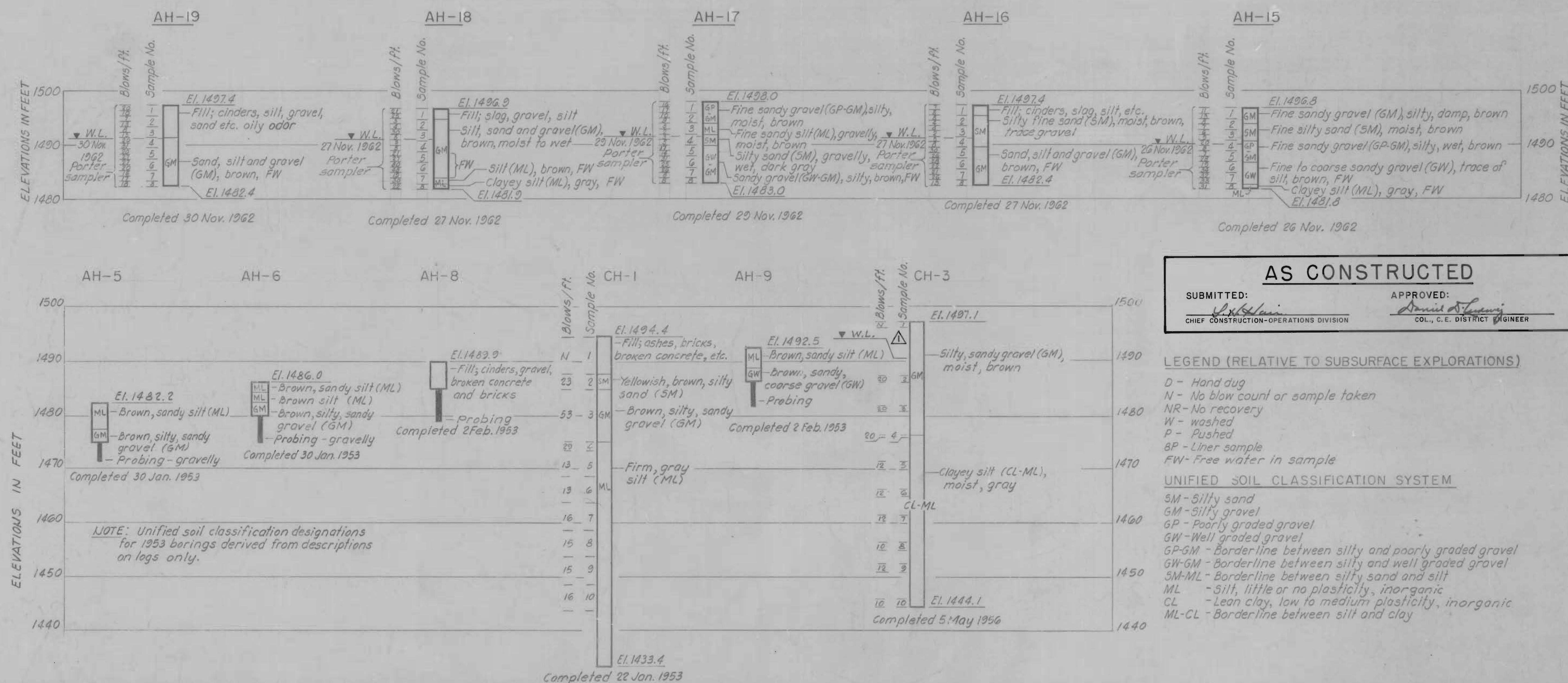
Unified soil classification symbol → GW

Elevation and date water level observed → 31 Oct. 1962

Date boring completed → Completed 22 Jan. 1953

Ground surface → El. 1495.6

Elevation bottom of hole → El. 1415.1



- NOTES (RELATIVE TO SUBSURFACE EXPLORATIONS)**
- APPROXIMATE LOCATIONS OF SUBSURFACE EXPLORATIONS AND PLOTTED LOGS ARE SHOWN ON DWG. NO. 2/1, 2/2, 2/3, 2/4, 2/5, 2/7 AND 2/8.
  - SAMPLES FROM HOLES SS-1 THRU SS-3 WERE OBTAINED WITH A STANDARD 1 1/2 INCH SPLIT SPOON SAMPLER, ADVANCED BY A 140 POUND HAMMER FALLING 30 INCHES.
  - SAMPLES FROM CH-1 WERE OBTAINED WITH A 2 1/2 INCH I.D. SPLIT SPOON SAMPLER ADVANCED BY A 300 POUND HAMMER FALLING 12 INCHES.
  - SAMPLES FROM CH-3 WERE OBTAINED WITH A 1 1/2 INCH I.D. STANDARD SPLIT SPOON SAMPLER ADVANCED BY A 300 POUND HAMMER FALLING 18 INCHES.
  - BLOW COUNTS INDICATE THE RESISTANCE OF THE SOIL TO PENETRATION BY THE SAMPLER.
  - SAMPLES FROM AH-5 THRU AH-10 WERE OBTAINED WITH A HAND AUGER, SIZE AND TYPE UNKNOWN.
  - SAMPLES FROM AH-12 THRU AH-19 WERE OBTAINED WITH A 1 1/2 INCH SPIRAL HAND AUGER AND/OR A 1 INCH PORTER SAMPLER WHICH WAS ADVANCED BY A 30 POUND WEIGHT FALLING APPROXIMATELY 24 INCHES AND MANUALLY OPERATED.
  - TEST PITS TP-2 AND TP-3 WERE HAND DUG AND ARE SHOWN ON DWGS. 2/7 AND 2/8.
  - SOIL DESCRIPTIONS OF THE 1956 AND 1962 EXPLORATIONS ARE BASED ON VISUAL AND MANUAL EXAMINATION OF THE SAMPLES.
  - THE MEANINGS OF THE SOIL GROUP SYMBOLS SHOWN IN THE LEGEND ARE GIVEN IN MORE DETAIL IN THE CORPS OF ENGINEERS TECHNICAL MEMORANDUM NO. 3-357, "THE UNIFIED SOIL CLASSIFICATION SYSTEM", TABLES 1 AND 2, VOL. 1, MAR. 1953.
  - SOIL SAMPLES IN JARS, FROM THE 1956 AND 1962 SUBSURFACE EXPLORATIONS ONLY, ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE DISTRICT ENGINEER, BUFFALO, N.Y.

**AS CONSTRUCTED**

SUBMITTED: *[Signature]* CHIEF CONSTRUCTION-OPERATIONS DIVISION

APPROVED: *[Signature]* COL., C.E. DISTRICT ENGINEER

**LEGEND (RELATIVE TO SUBSURFACE EXPLORATIONS)**

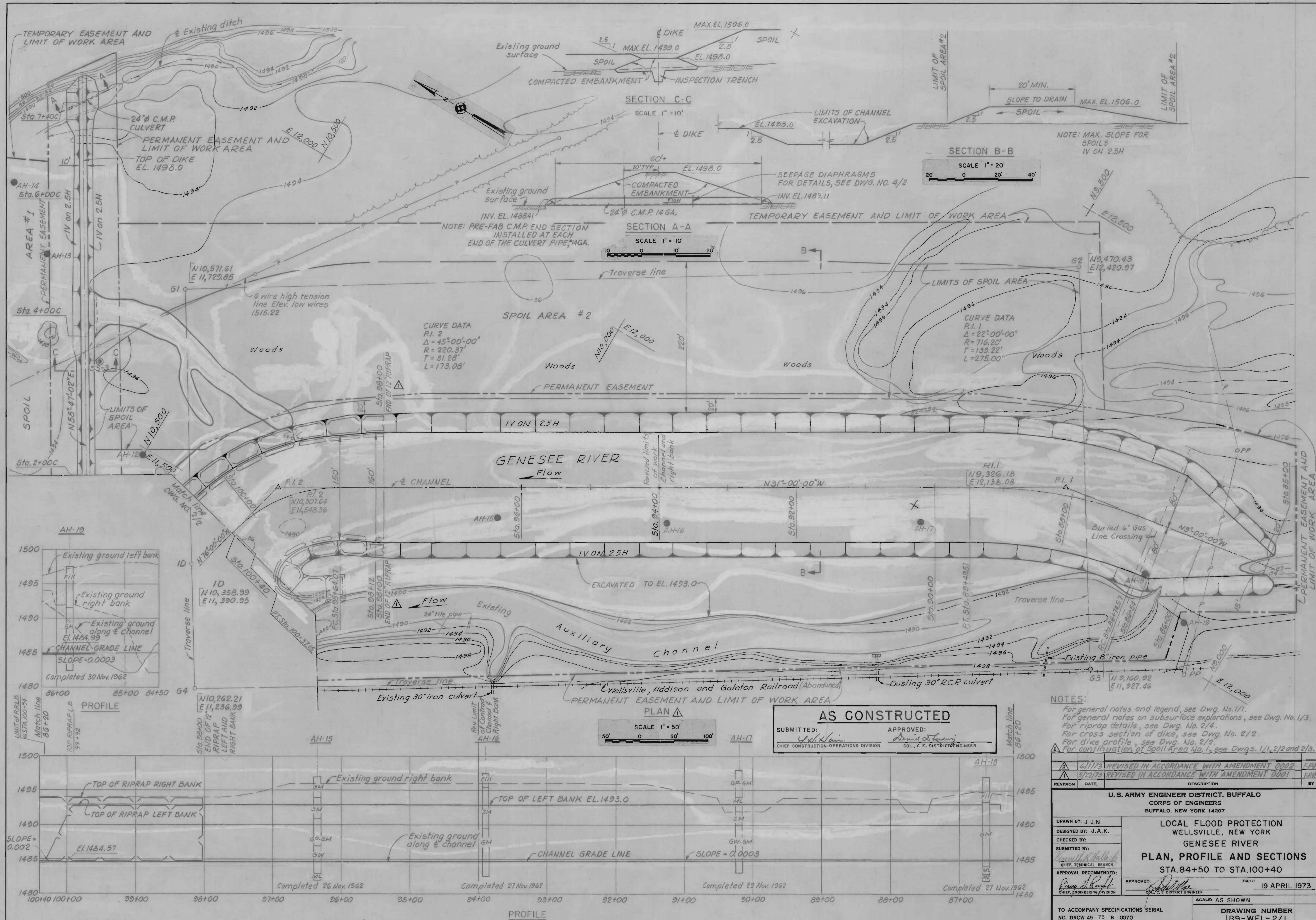
D - Hand dug  
N - No blow count or sample taken  
NR - No recovery  
W - washed  
P - Pushed  
BP - Liner sample  
FW - Free water in sample

**UNIFIED SOIL CLASSIFICATION SYSTEM**

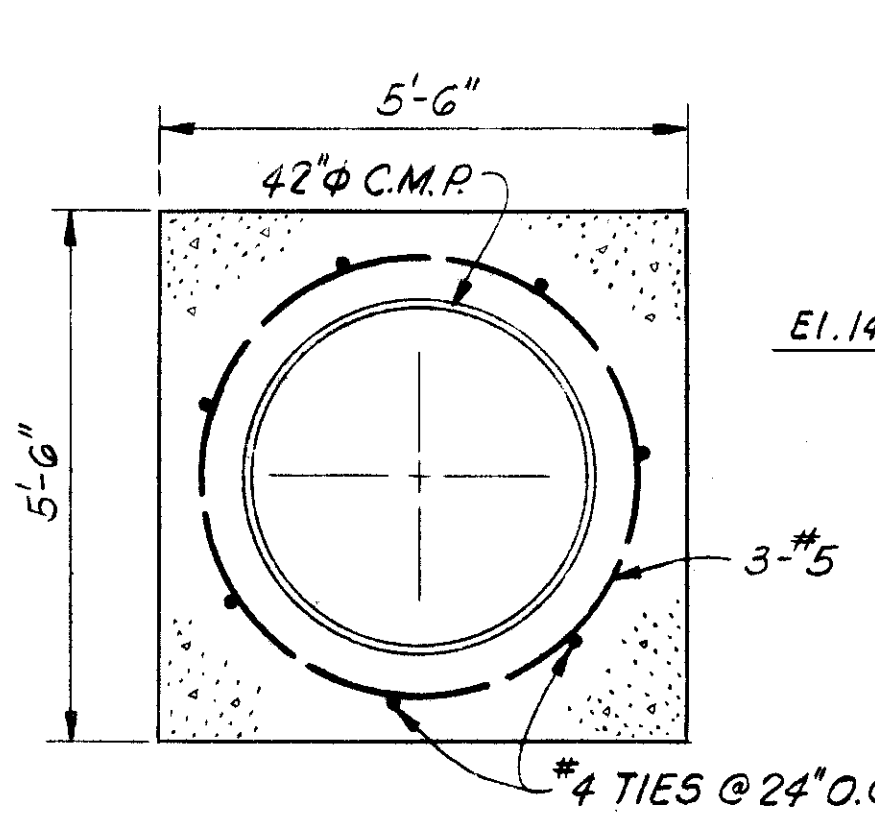
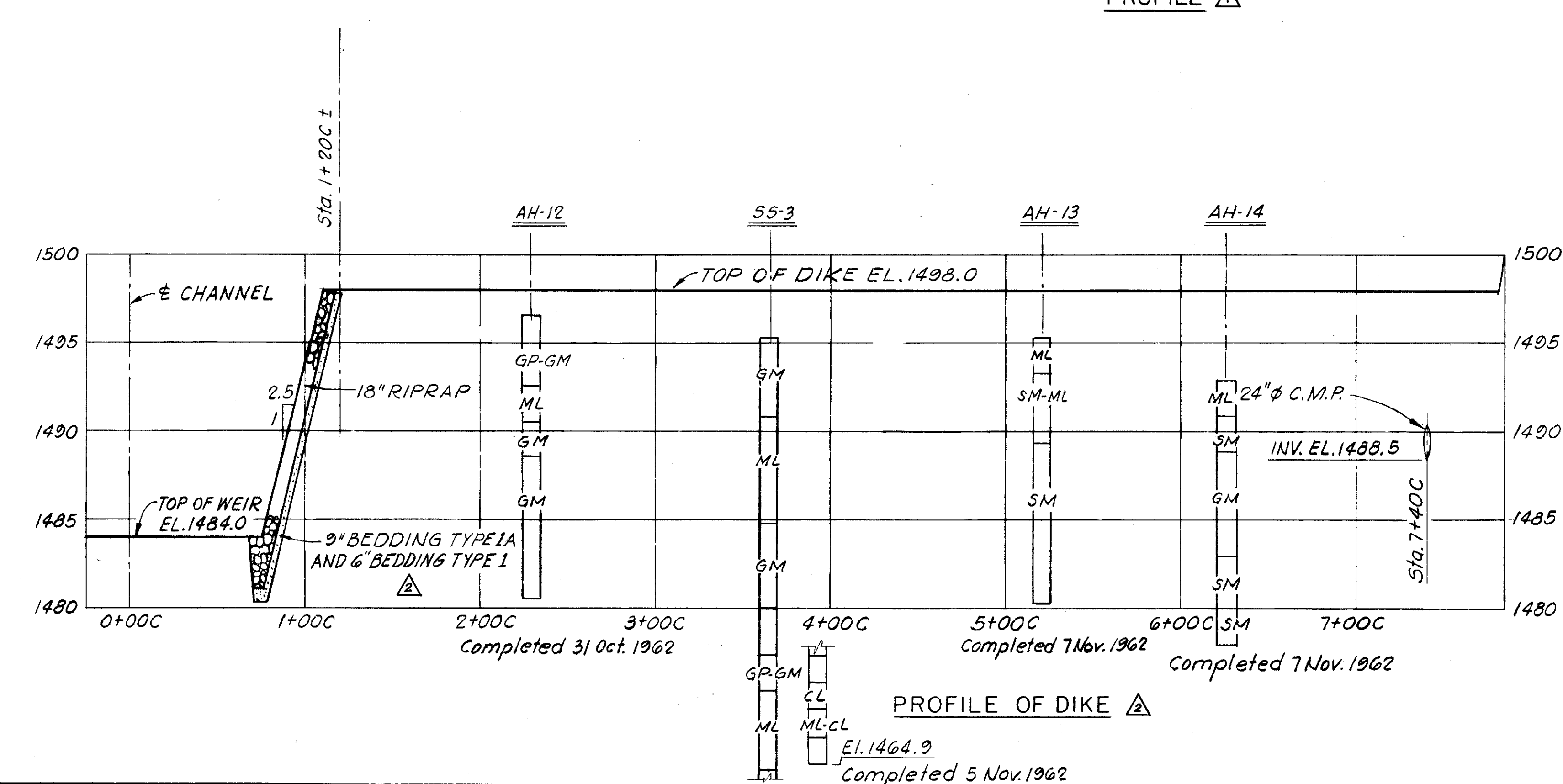
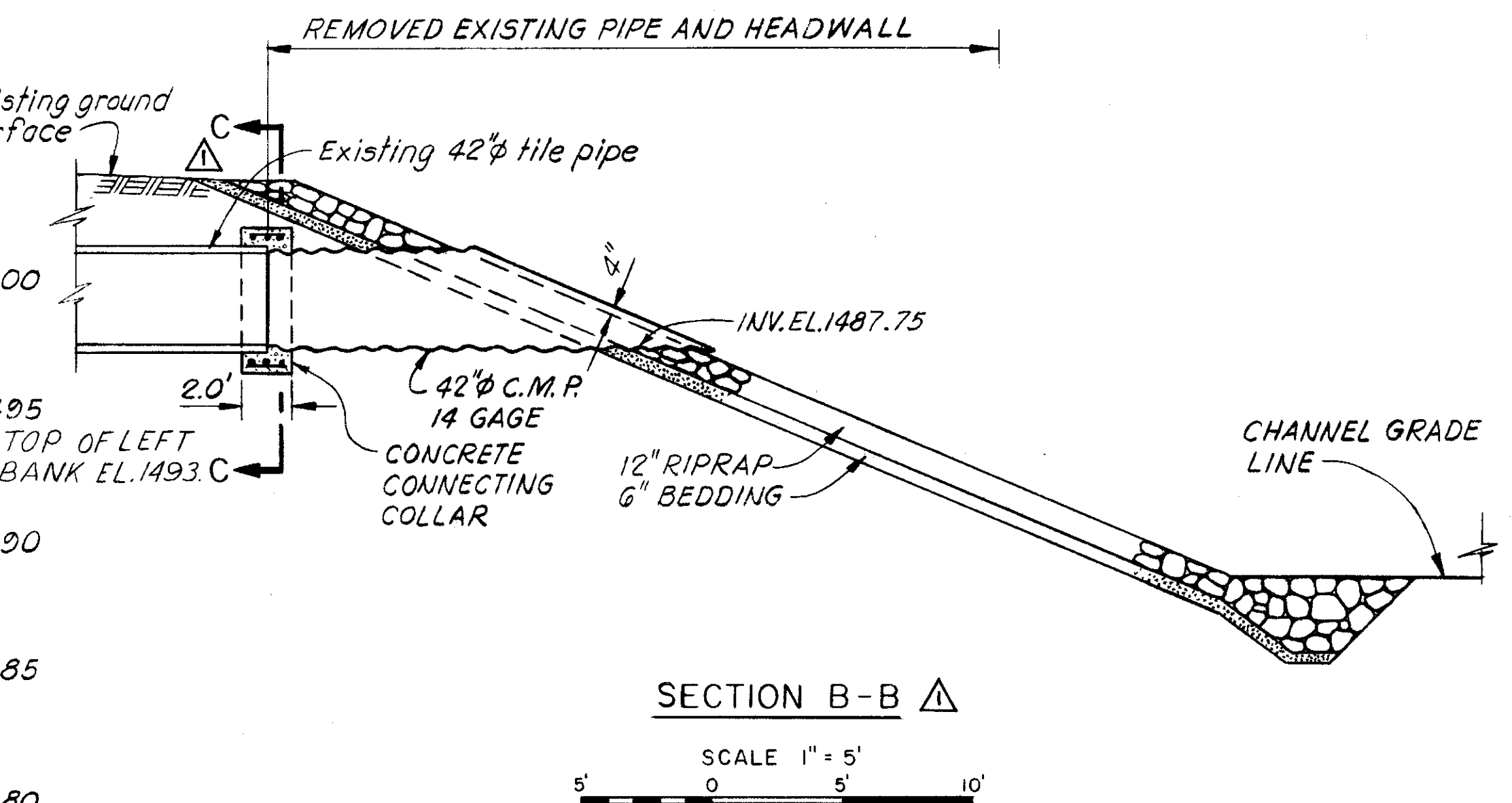
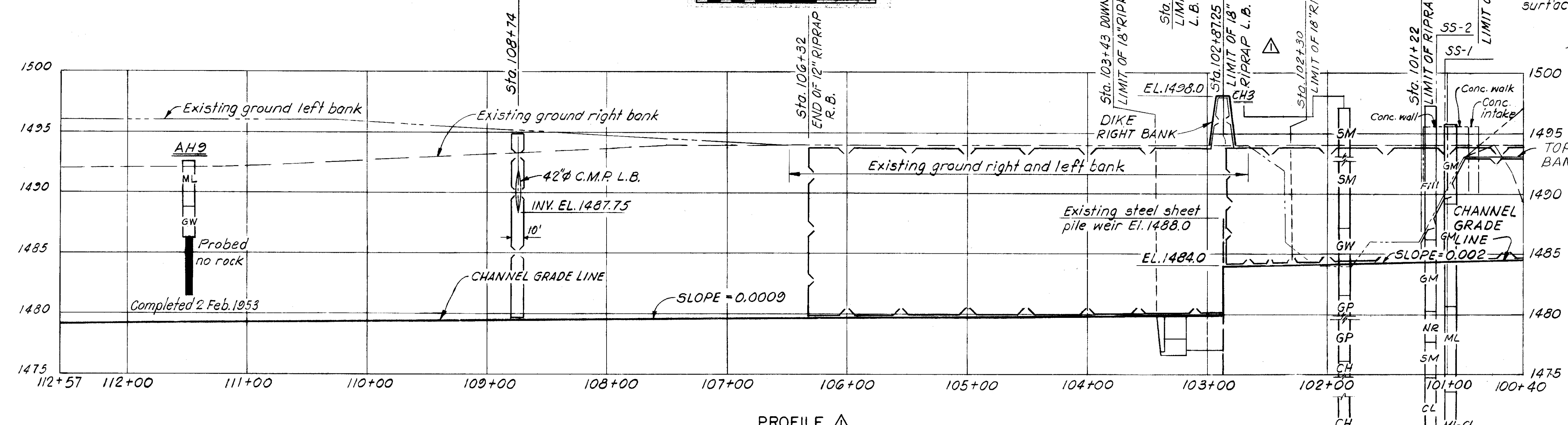
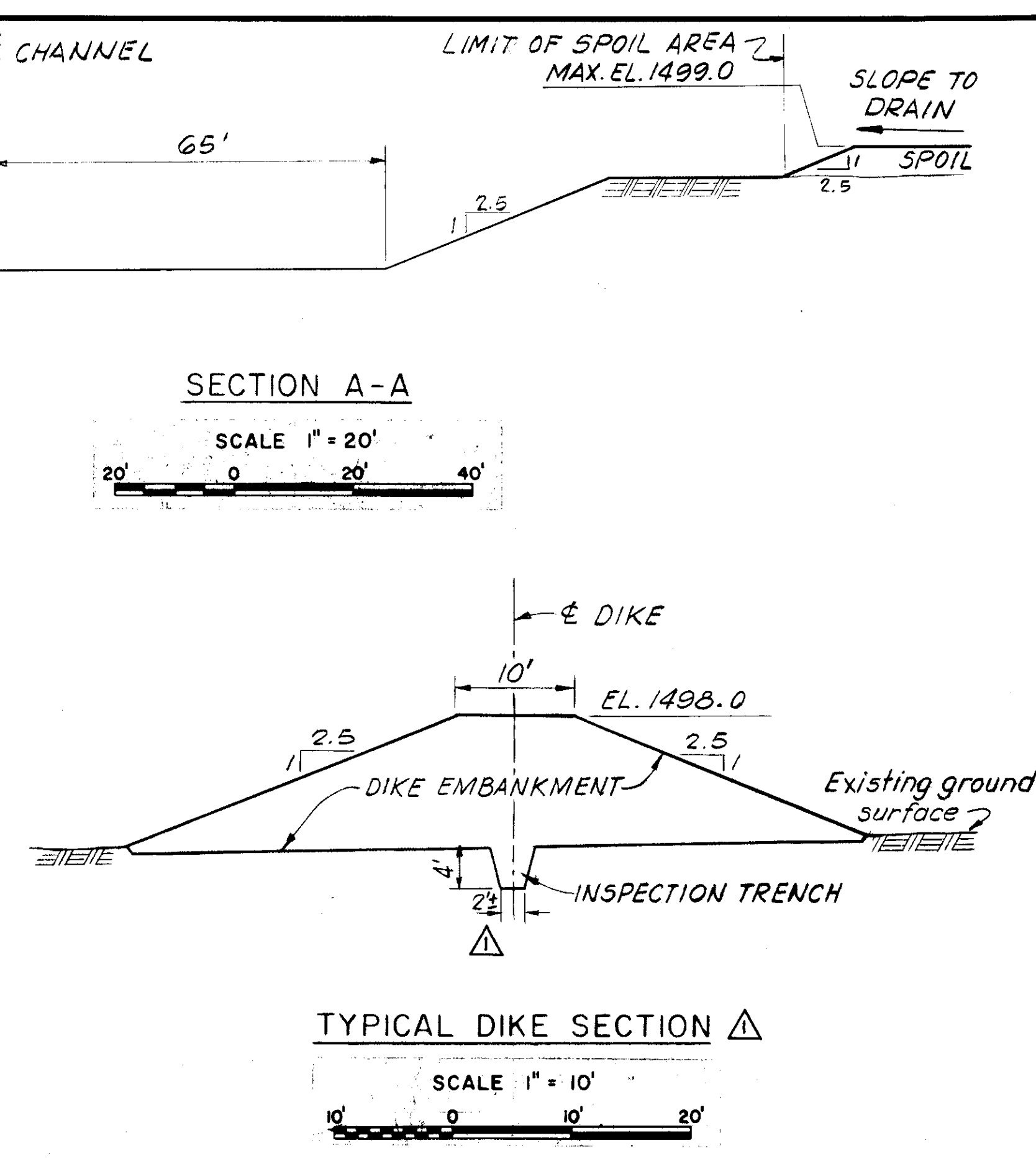
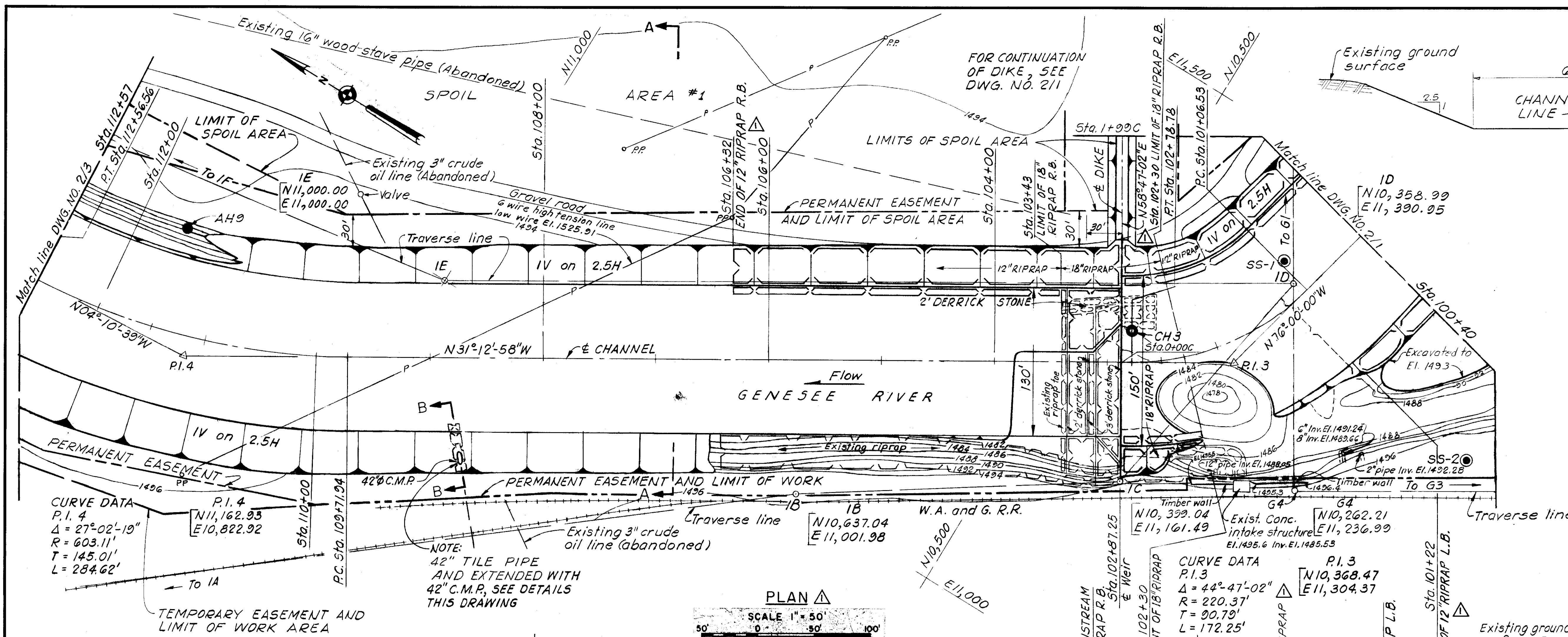
SM - Silty sand  
GM - Silty gravel  
GP - Poorly graded gravel  
GW - Well graded gravel  
GP-GM - Borderline between silty and poorly graded gravel  
GW-GM - Borderline between silty and well graded gravel  
SM-ML - Borderline between silty sand and silt  
ML - Silt, little or no plasticity, inorganic  
CL - Lean clay, low to medium plasticity, inorganic  
ML-CL - Borderline between silt and clay

REVISION	DATE	DESCRIPTION	BY
6/11/73		REVISED IN ACCORDANCE WITH AMENDMENT 0002	144
<p align="center"><b>U.S. ARMY ENGINEER DISTRICT, BUFFALO</b> CORPS OF ENGINEERS BUFFALO, NEW YORK 14214</p>			
<p>DRAWN BY: J.J.N. DESIGNED BY: A.K. CHECKED BY: T.W. SUBMITTED BY: <i>[Signature]</i> APPROVAL RECOMMENDED: <i>[Signature]</i> CHIEF ENGINEERING DIVISION</p>		<p align="center"><b>LOCAL FLOOD PROTECTION</b> WELLSVILLE, NEW YORK</p> <p align="center"><b>GENERAL</b> <b>SUBSURFACE EXPLORATIONS</b> <b>GENESEE RIVER</b></p> <p>APPROVED: <i>[Signature]</i> DATE: 19 APRIL 1973 COL., C.E. DISTRICT ENGINEER</p>	
<p>TO ACCOMPANY SPECIFICATIONS SERIAL NO. DACW 49 73 B 0070</p>		<p align="center">SCALE: AS SHOWN DRAWING NUMBER 189-WEL-1/3 SHEET 3 OF 13</p>	









**NOTES:**  
 For details of alteration to steel sheet pile weir, see Dwg. No. 4/1  
 For riprap details, see Dwg. No. 2/4  
 For continuation of spoil areas, see Dwg. No's. 1/1, 2/1 and 2/3.  
 For general notes and legend, see Dwg. No. 1/1.  
 For general notes on subsurface explorations, see Dwg. No. 1/3.  
 Existing 3" crude oil line (abandoned) removed with channel excavation to new channel side slopes.  
 Existing 16" wood stove pipe removed from existing intake structure to 30' North of centerline of dike.  
 All pipes cut and plugged.

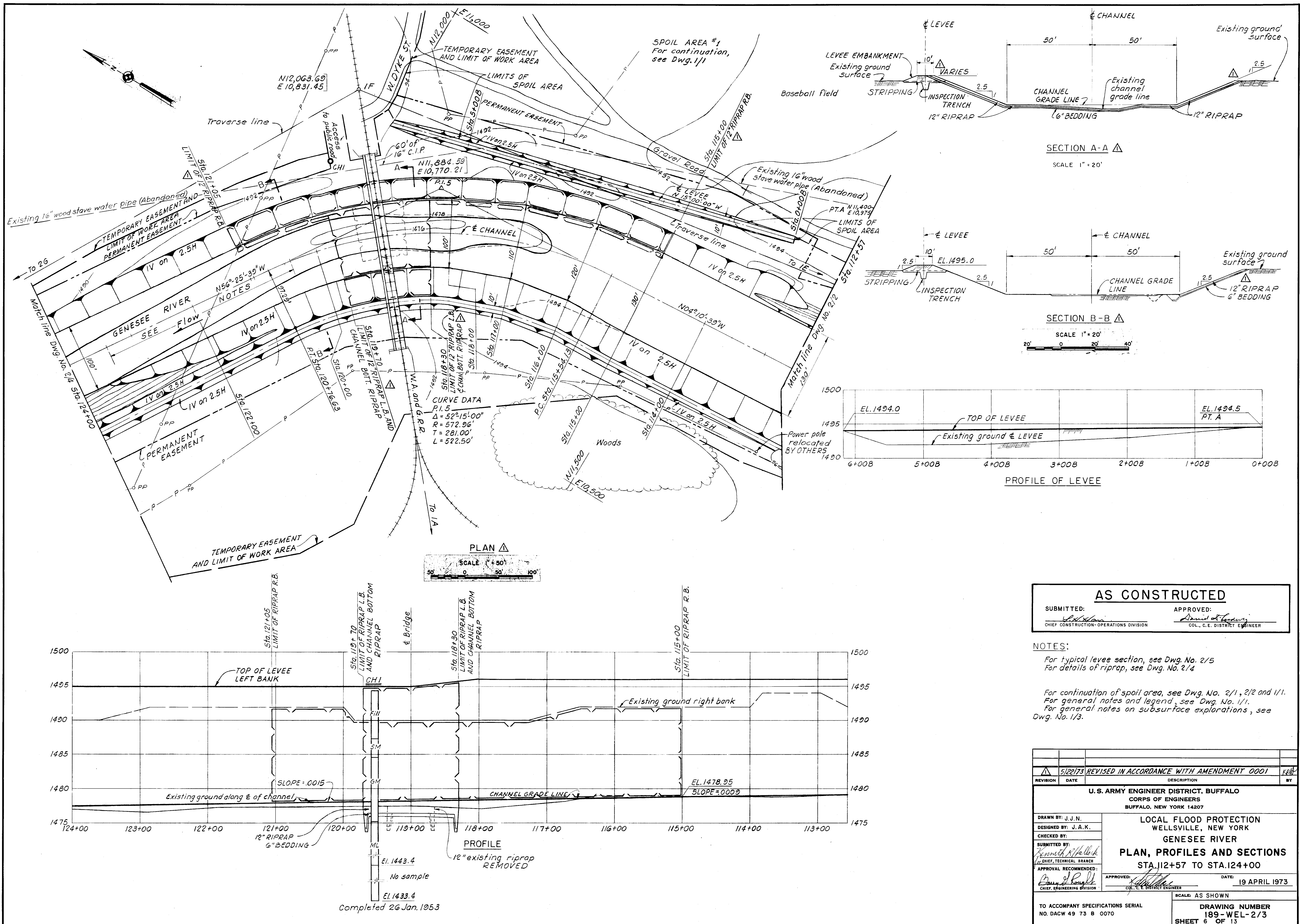
REVISION	DATE	DESCRIPTION	BY
1	6/11/73	REVISED IN ACCORDANCE WITH AMENDMENT 0002	KAL
2	5/22/73	REVISED IN ACCORDANCE WITH AMENDMENT 0001	KAL

U.S. ARMY ENGINEER DISTRICT, BUFFALO CORPS OF ENGINEERS BUFFALO, NEW YORK 14207	
DRAWN BY: A.F.R. DESIGNED BY: J.A.K. CHECKED BY: SUBMITTED BY: APPROVAL RECOMMENDED: CHIEF ENGINEERING DIVISION	LOCAL FLOOD PROTECTION WELLSVILLE, NEW YORK GENESEE RIVER <b>PLAN, PROFILES AND SECTIONS</b> STA. 100+40 TO STA. 112+57 APPROVED: [Signature] DATE: 19 APRIL 1973 SCALE: AS SHOWN DRAWING NUMBER 189-WEL-2/2 SHEET 5 OF 13

**AS CONSTRUCTED**  
 SUBMITTED: [Signature]  
 CHIEF CONSTRUCTION-OPERATIONS DIVISION  
 APPROVED: [Signature]  
 COL., C.E. DISTRICT ENGINEER

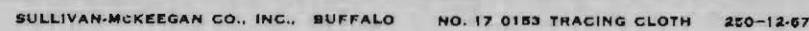




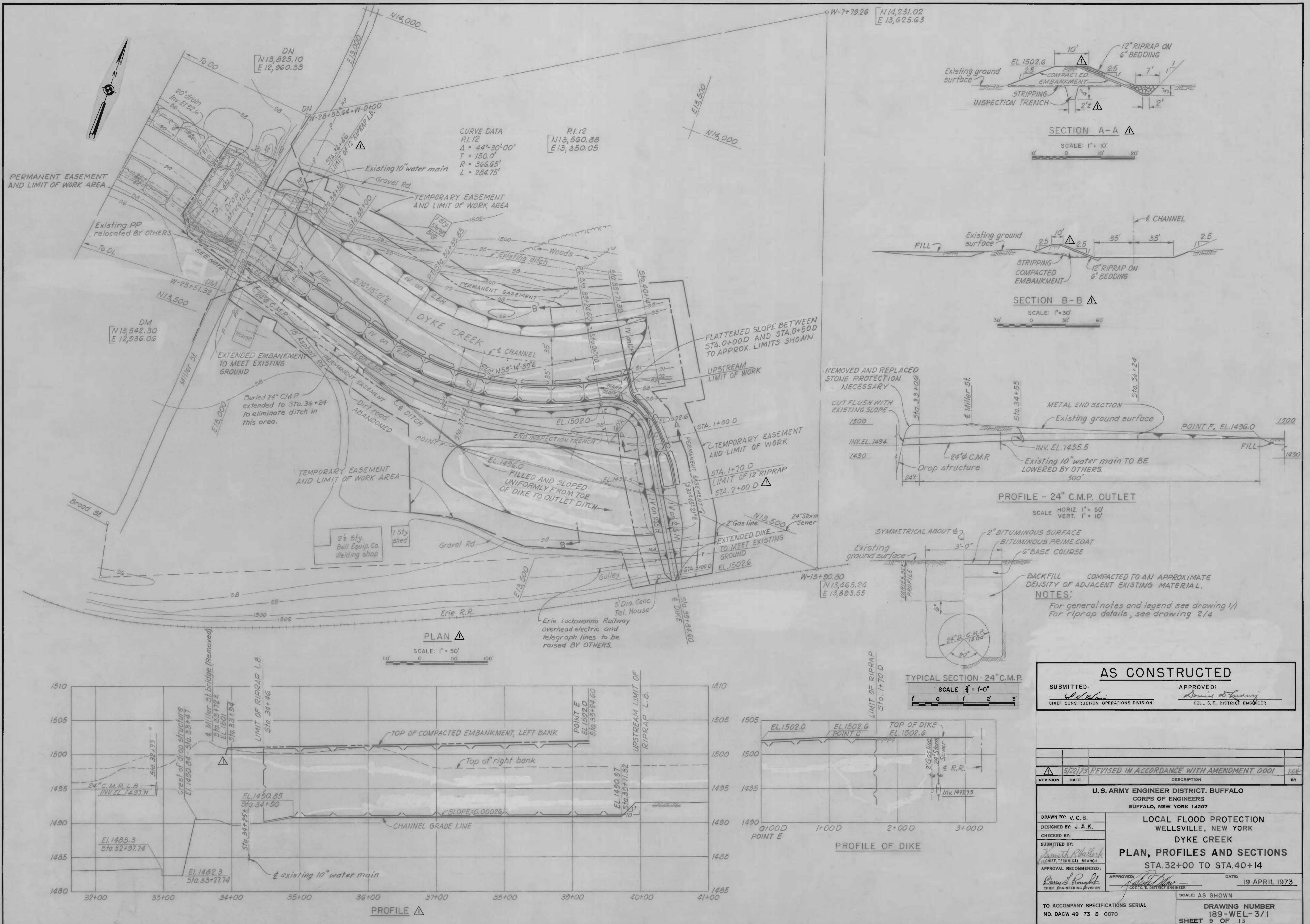




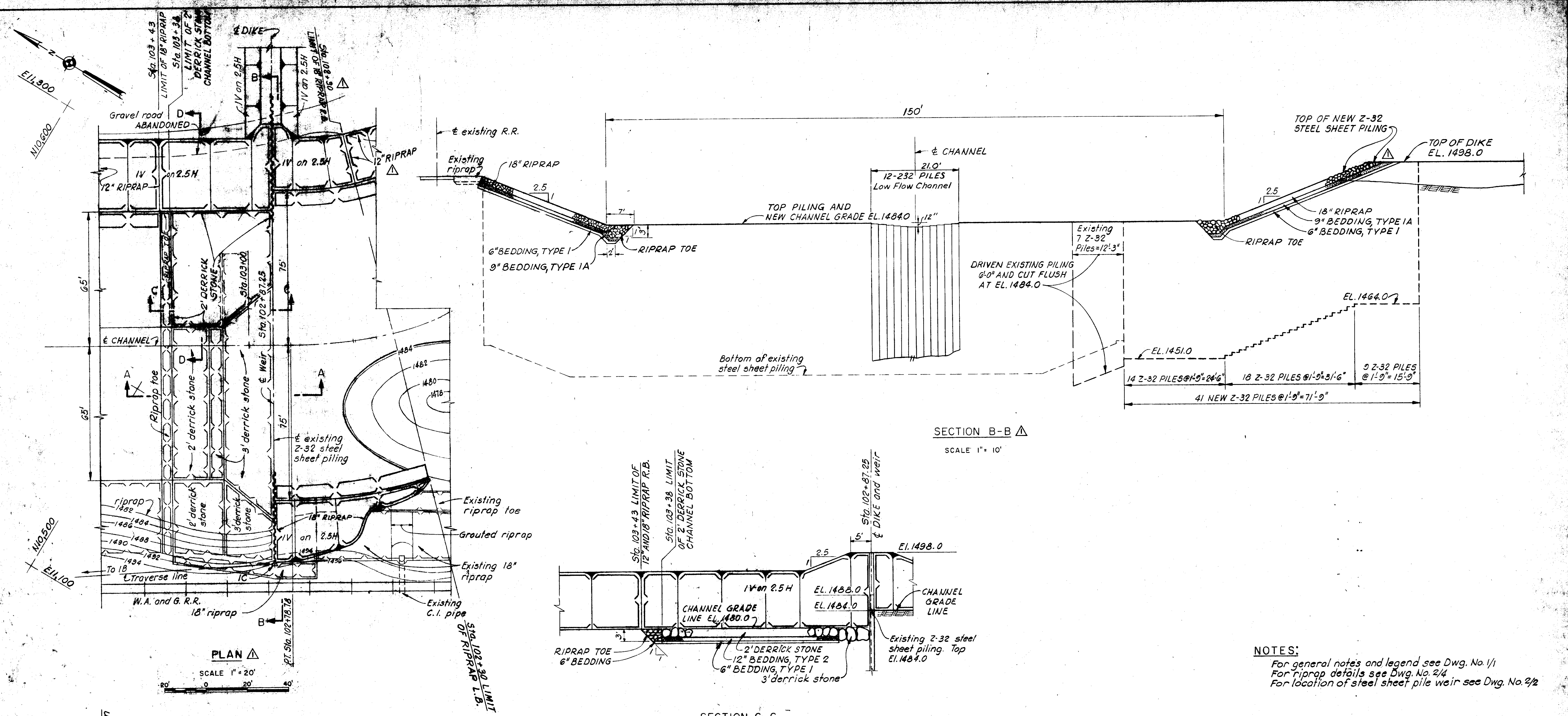










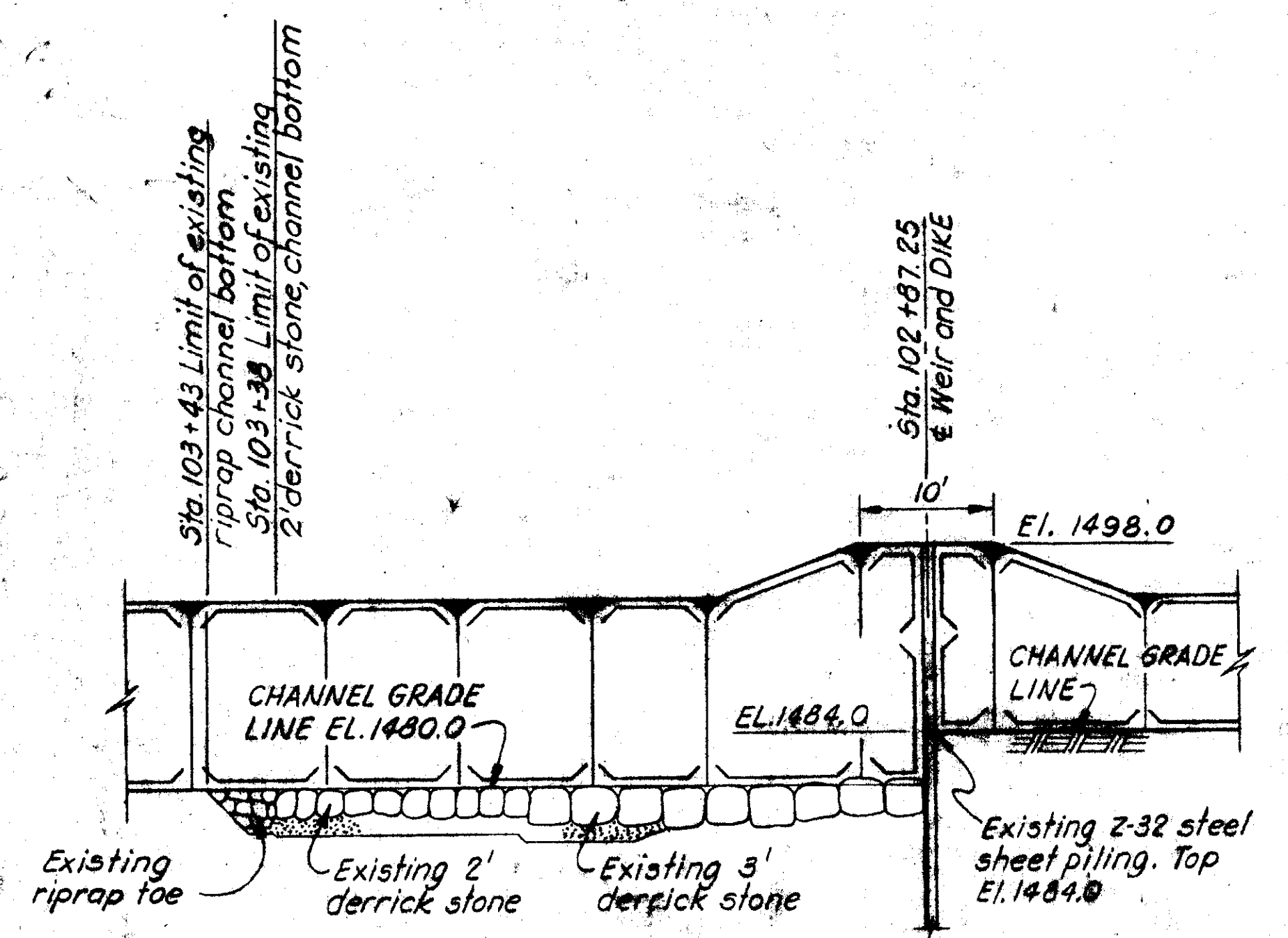


PLAN A  
SCALE 1" = 20'

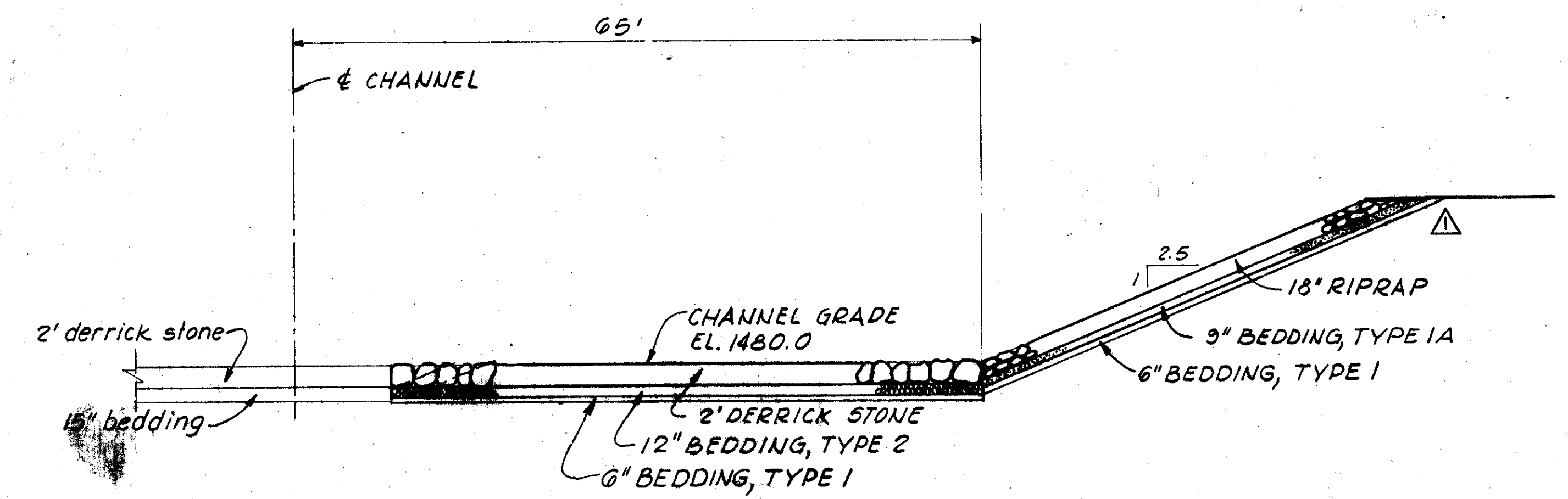
SECTION B-B  
SCALE 1" = 10'

SECTION C-C  
SCALE 1" = 10'

NOTES:  
For general notes and legend see Dwg. No. 1/1  
For riprap details see Dwg. No. 2/4  
For location of steel sheet pile weir see Dwg. No. 2/2



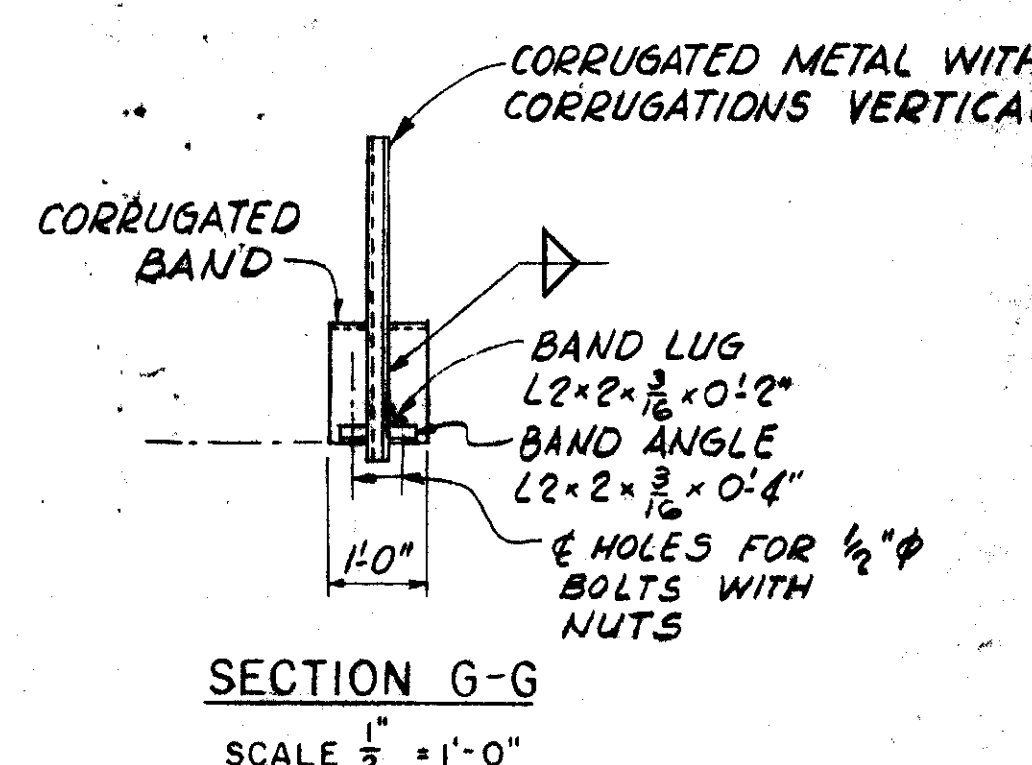
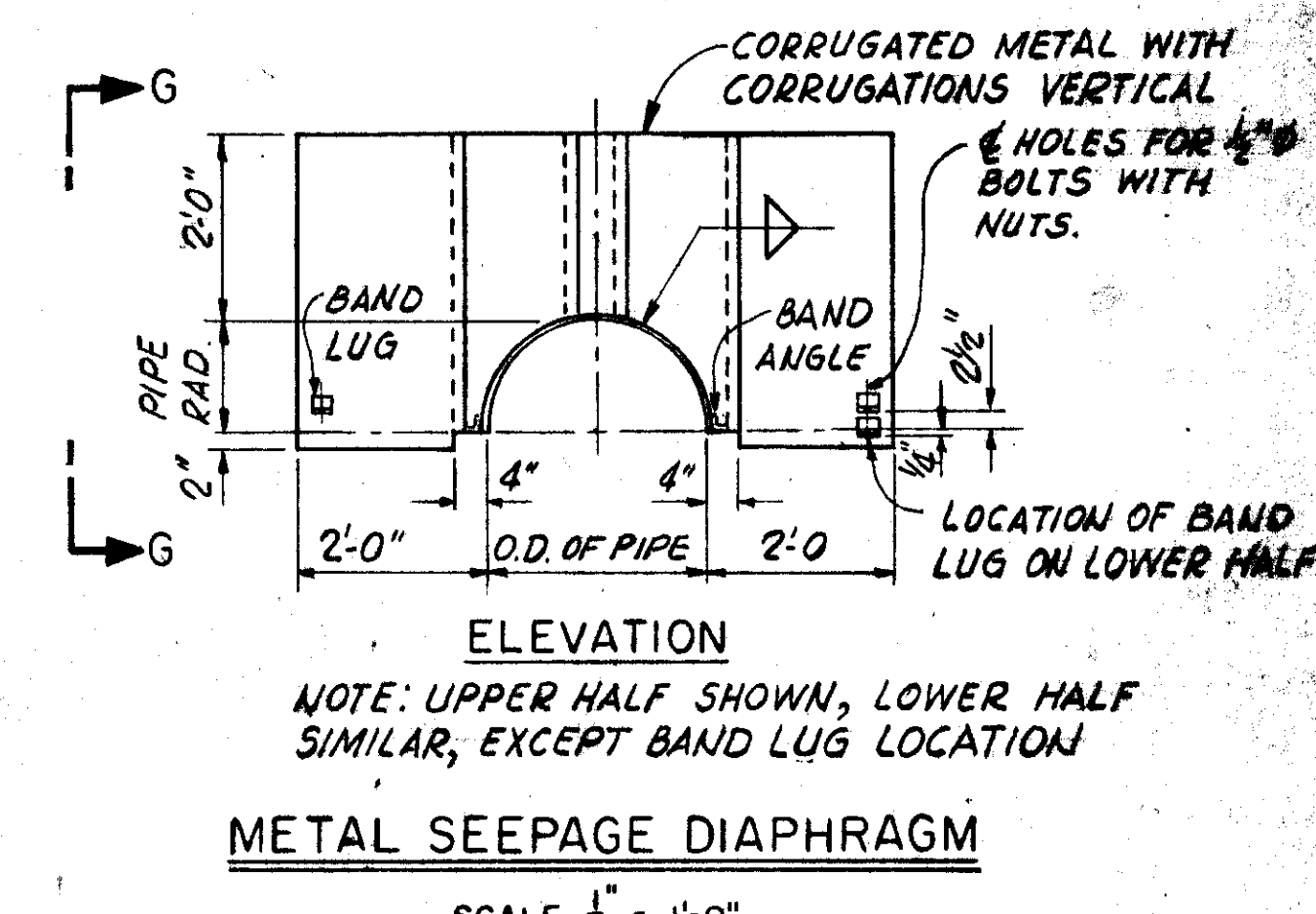
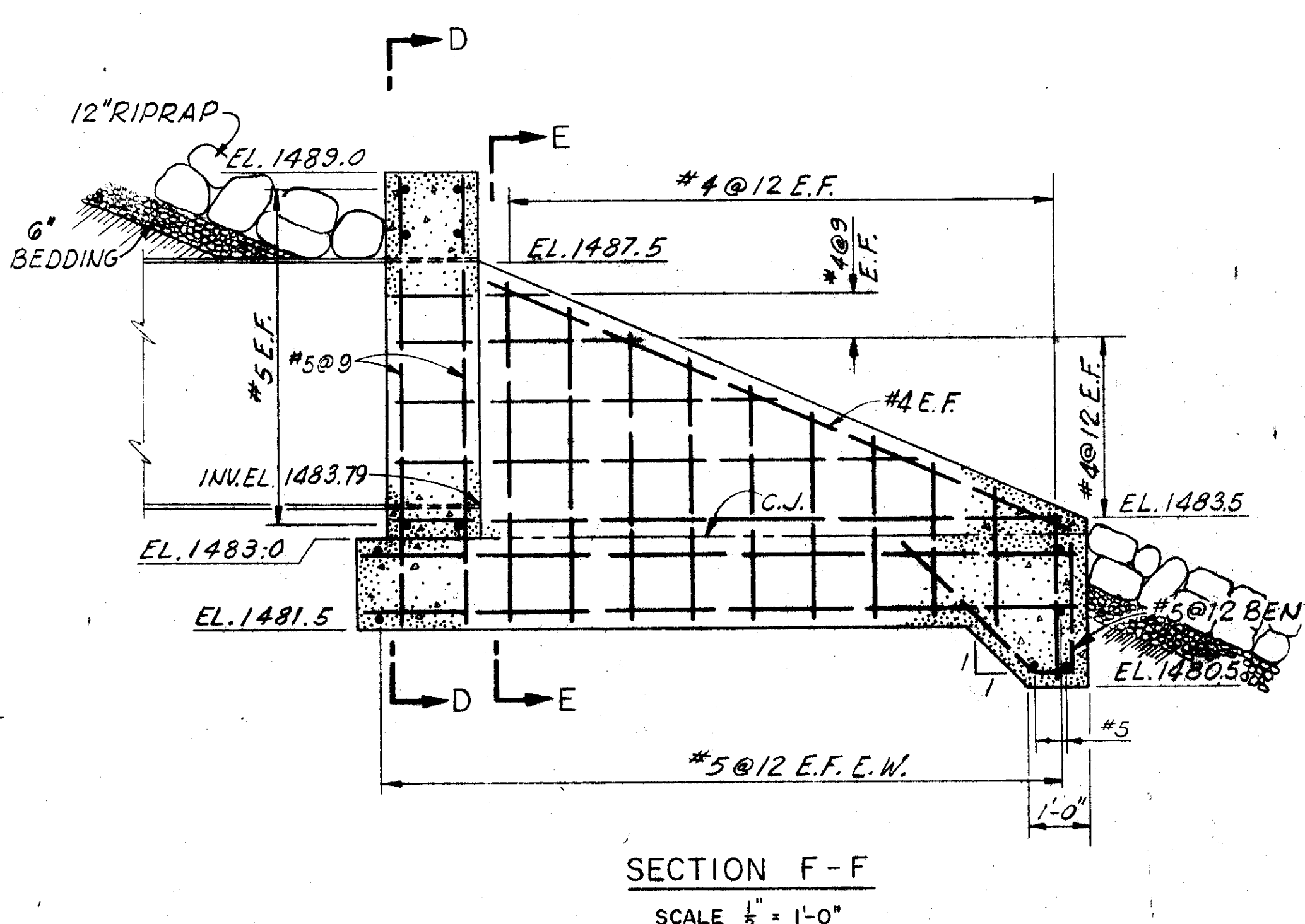
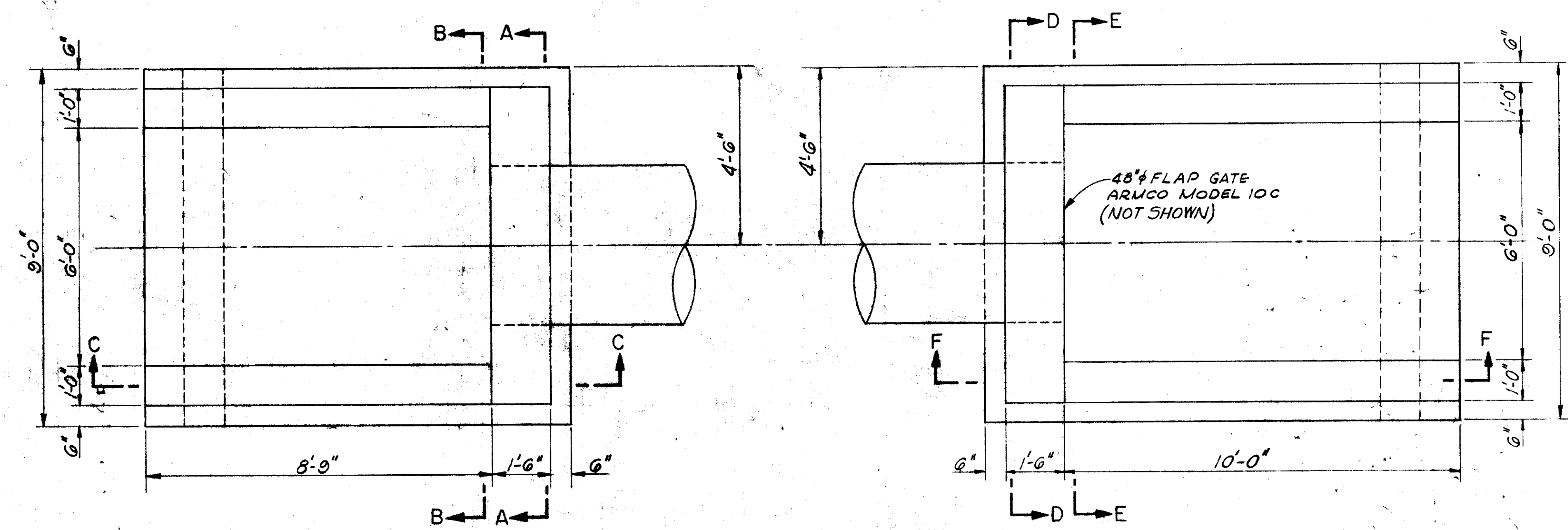
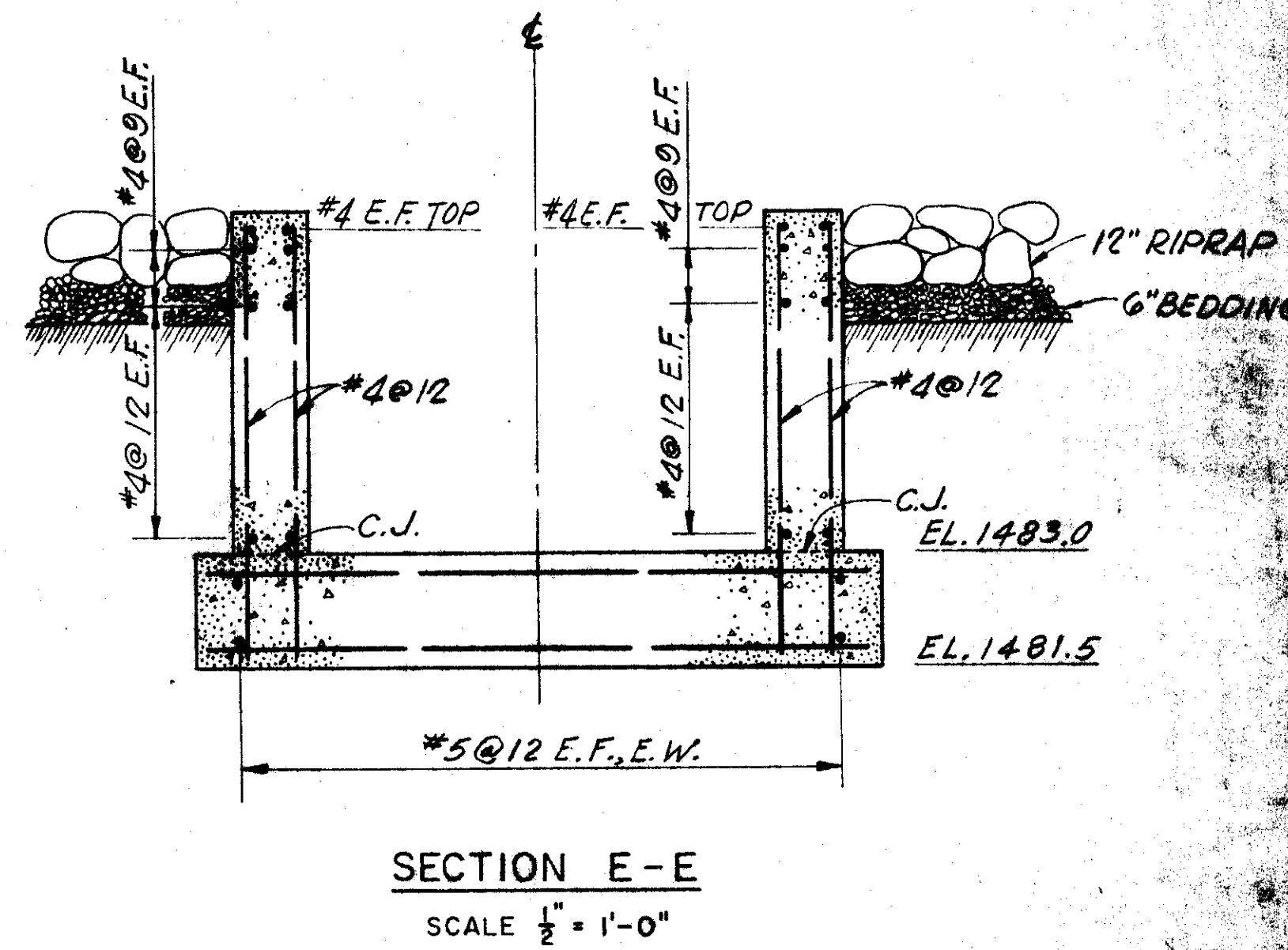
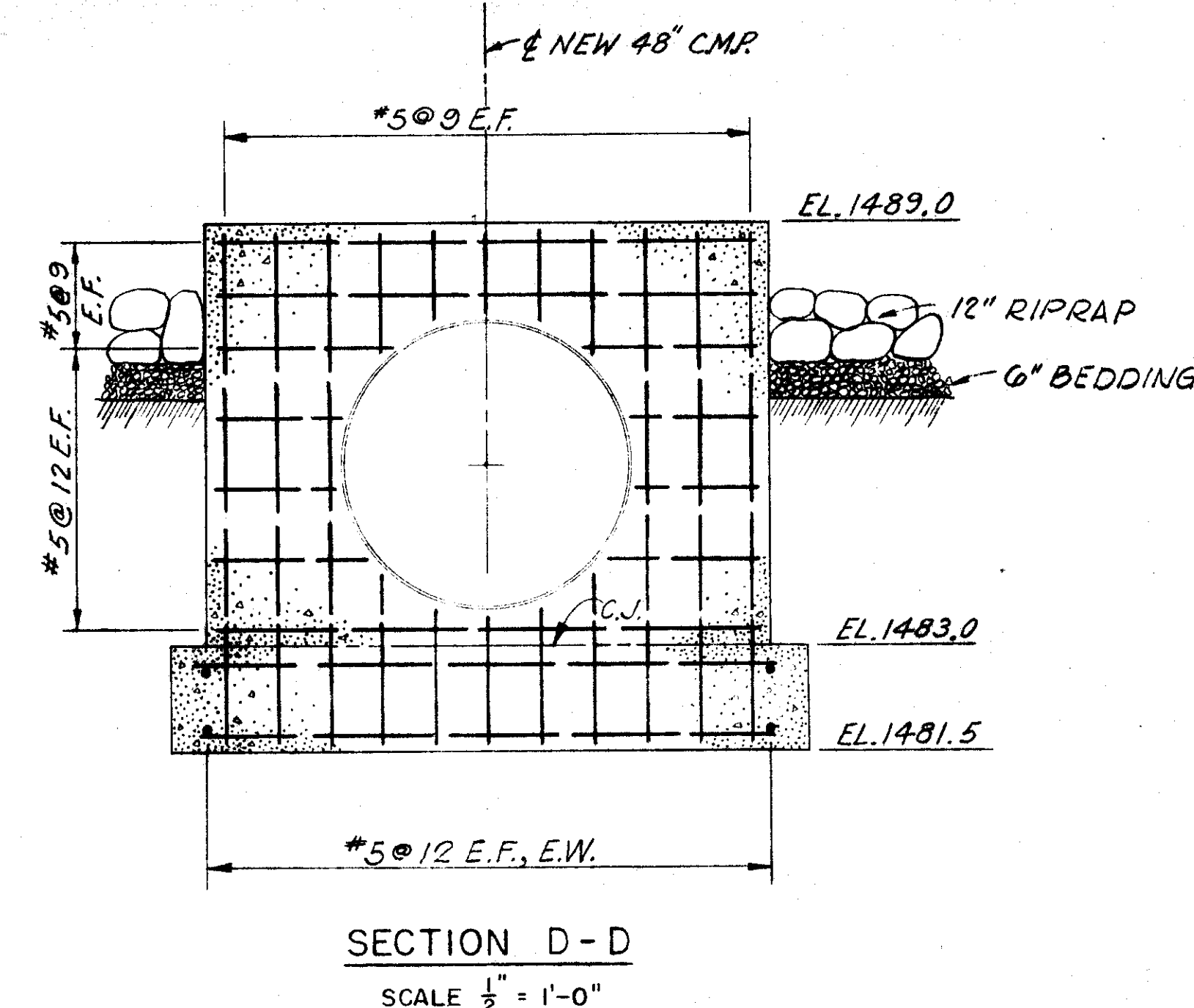
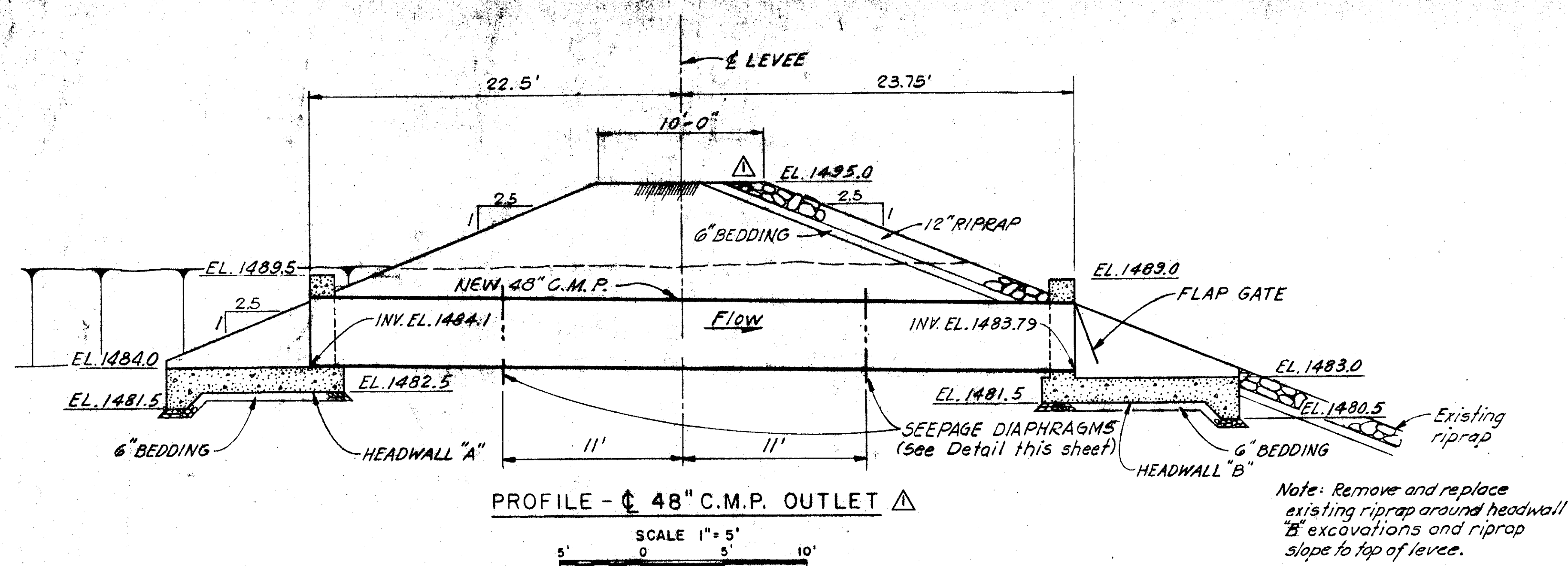
SECTION A-A  
SCALE 1" = 10'



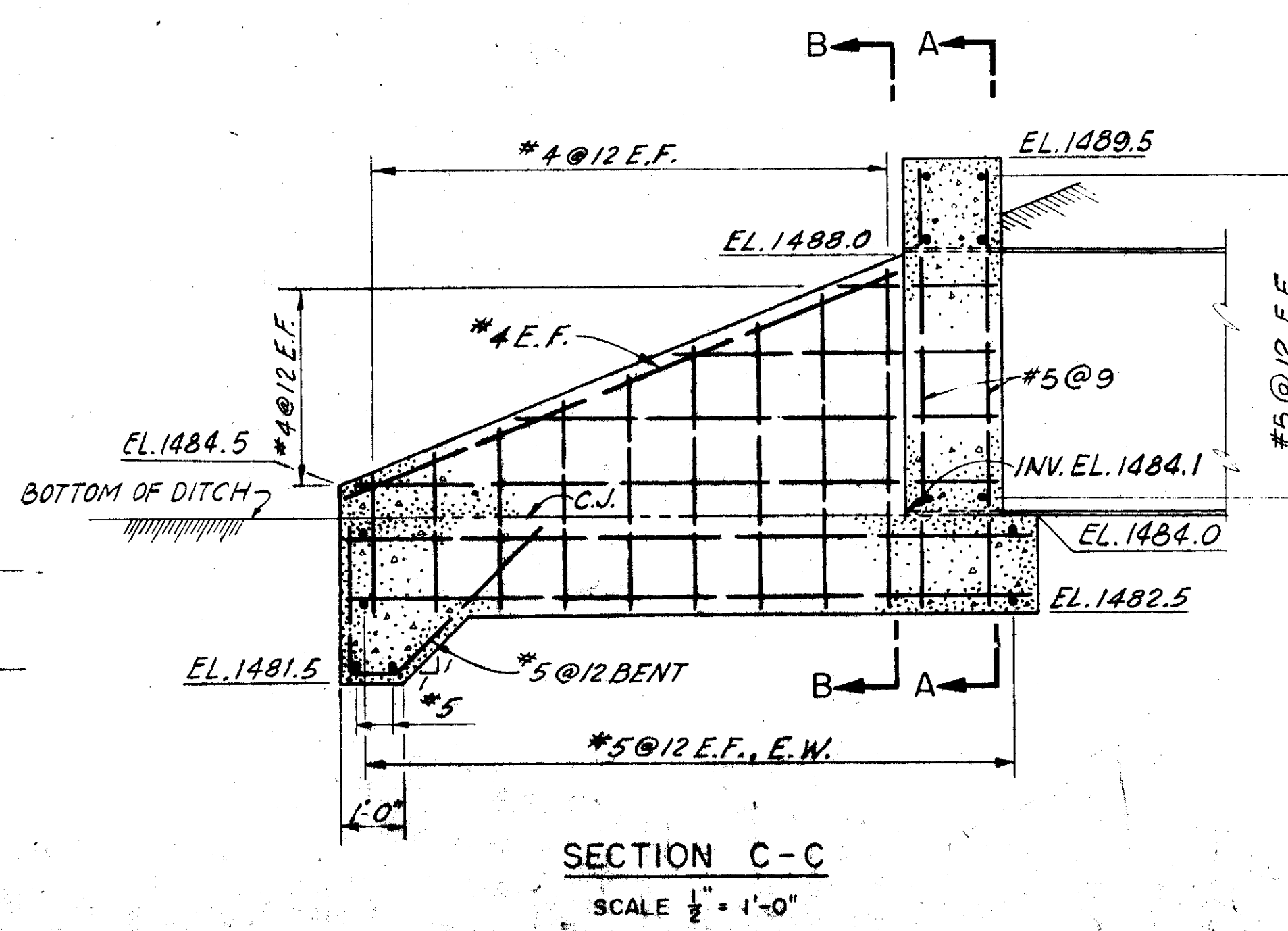
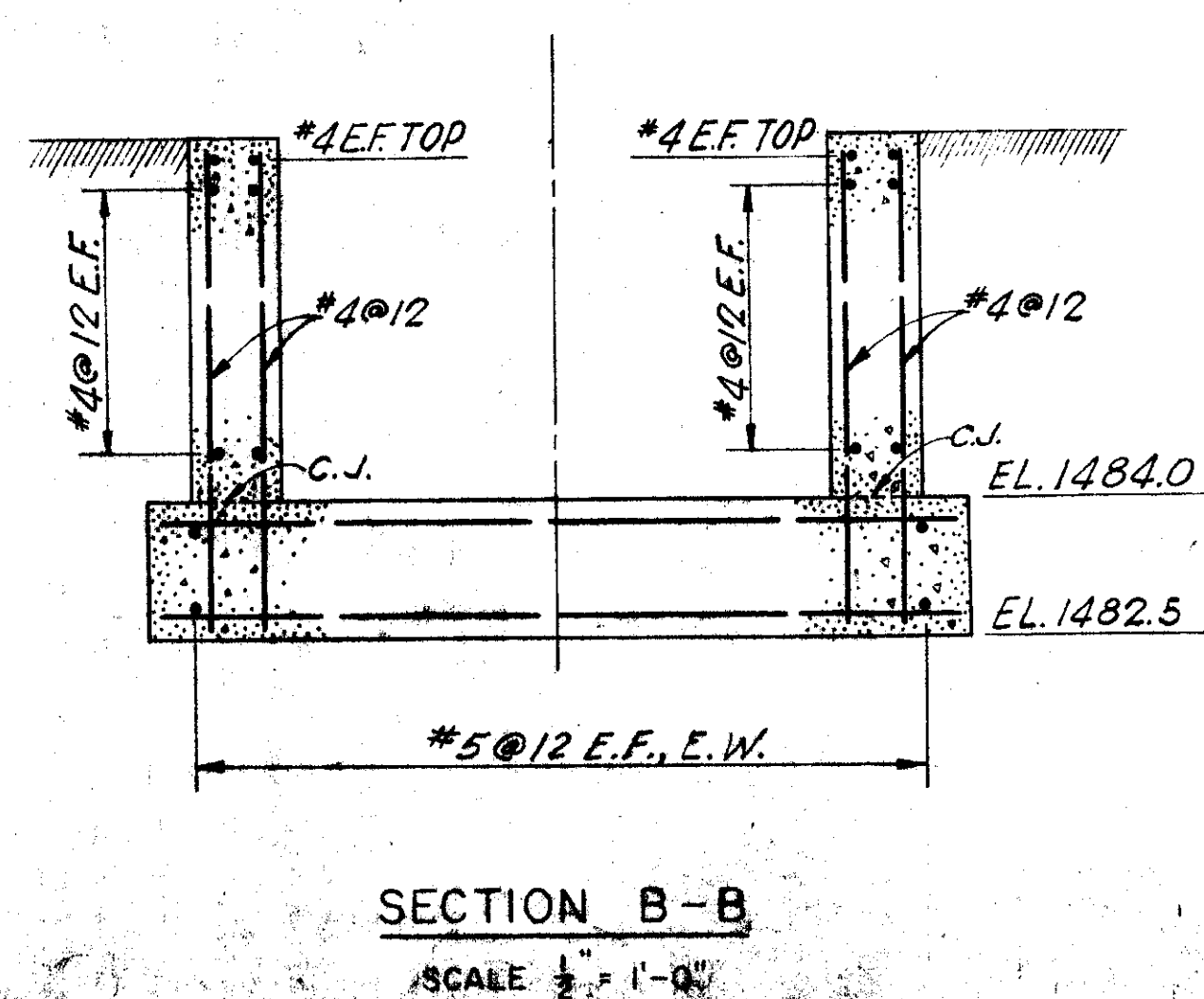
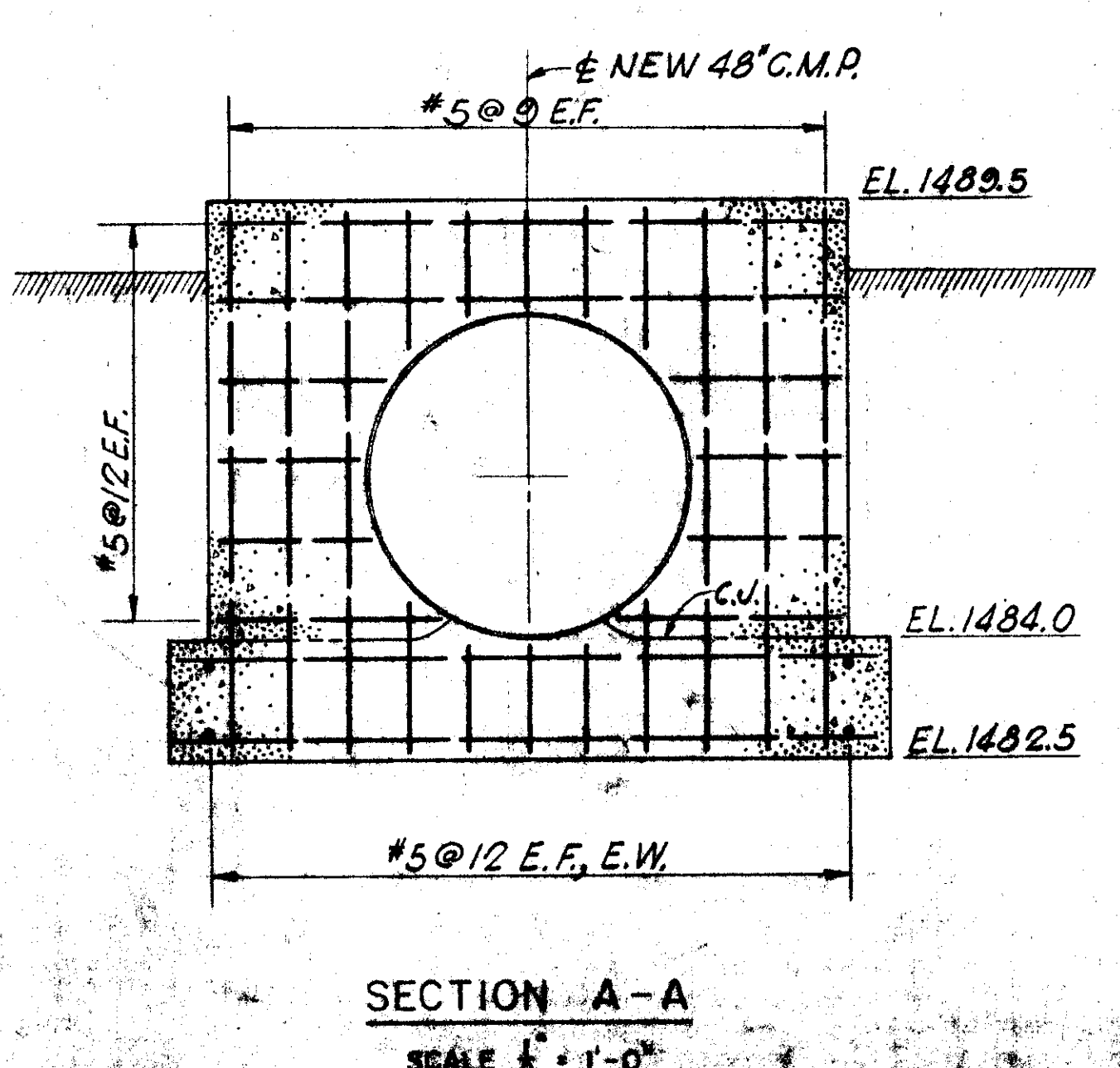
SECTION D-D  
SCALE 1" = 10'

<b>AS CONSTRUCTED</b>	
SUBMITTED: <i>[Signature]</i> CHIEF CONSTRUCTION-OPERATIONS DIVISION	APPROVED: <i>[Signature]</i> COL. C. E. DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, BUFFALO CORPS OF ENGINEERS BUFFALO, NEW YORK 14207	
LOCAL FLOOD PROTECTION WELLSVILLE, NEW YORK DETAILS-GENESEE RIVER <b>ALTERATIONS TO WEIR-STA. 102+87.25</b> <b>PLAN AND SECTIONS</b>	
DRAWN BY: V. C. B. DESIGNED BY: J. A. K. CHECKED BY: SUBMITTED BY: APPROVAL RECOMMENDED: CHIEF, ENGINEERING DIVISION	DATE: 19 APRIL 1973 SCALE: AS SHOWN TO ACCOMPANY SPECIFICATIONS SERIAL NO. BACW 49 73 5 0870 DRAWING NUMBER 189-WEL-471 SHEET 10 OF 13



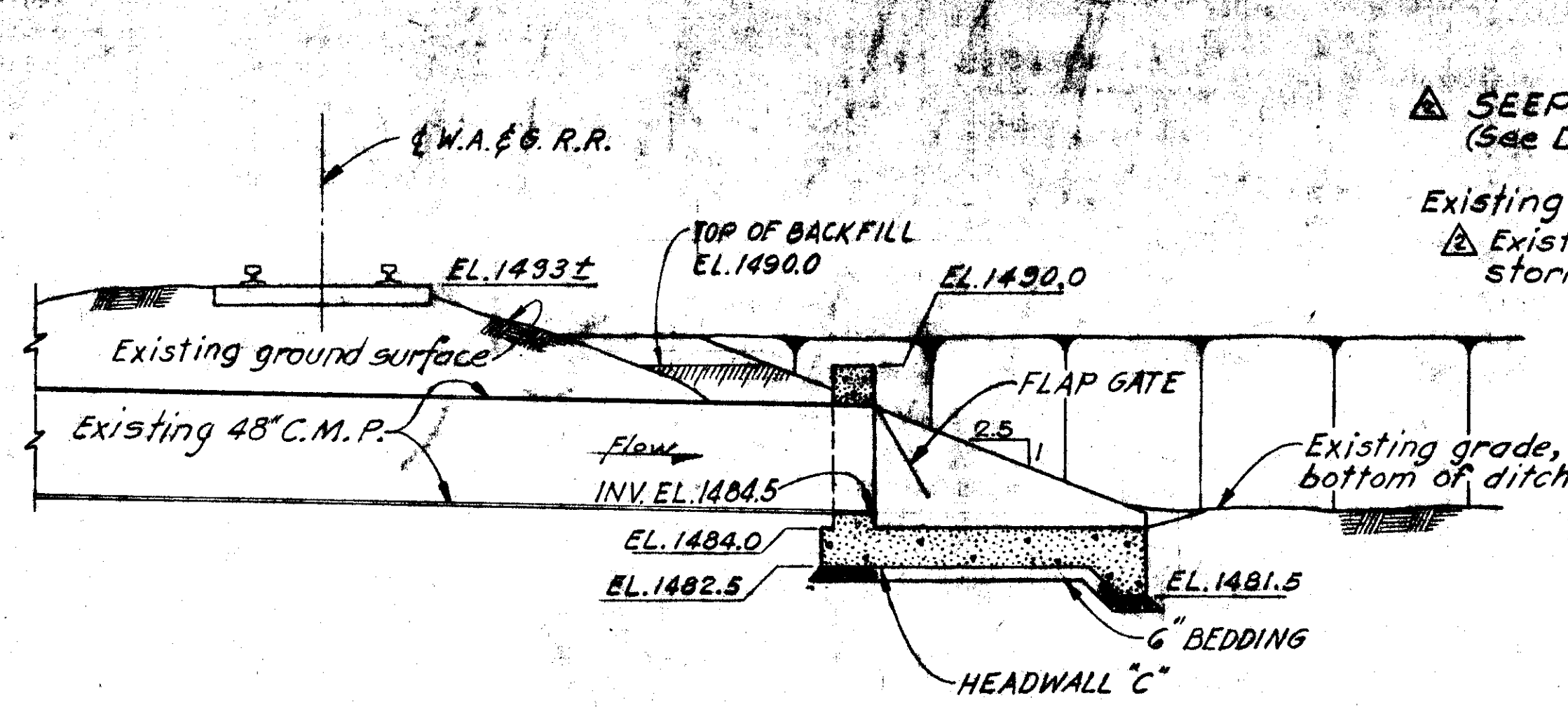


- NOTES:
1. For location of headwalls "A" and "B" see drawing 2/4.
  2. For reinforcement notes see drawing 4/3.
  3. For general notes and legend see drawing 1/1.



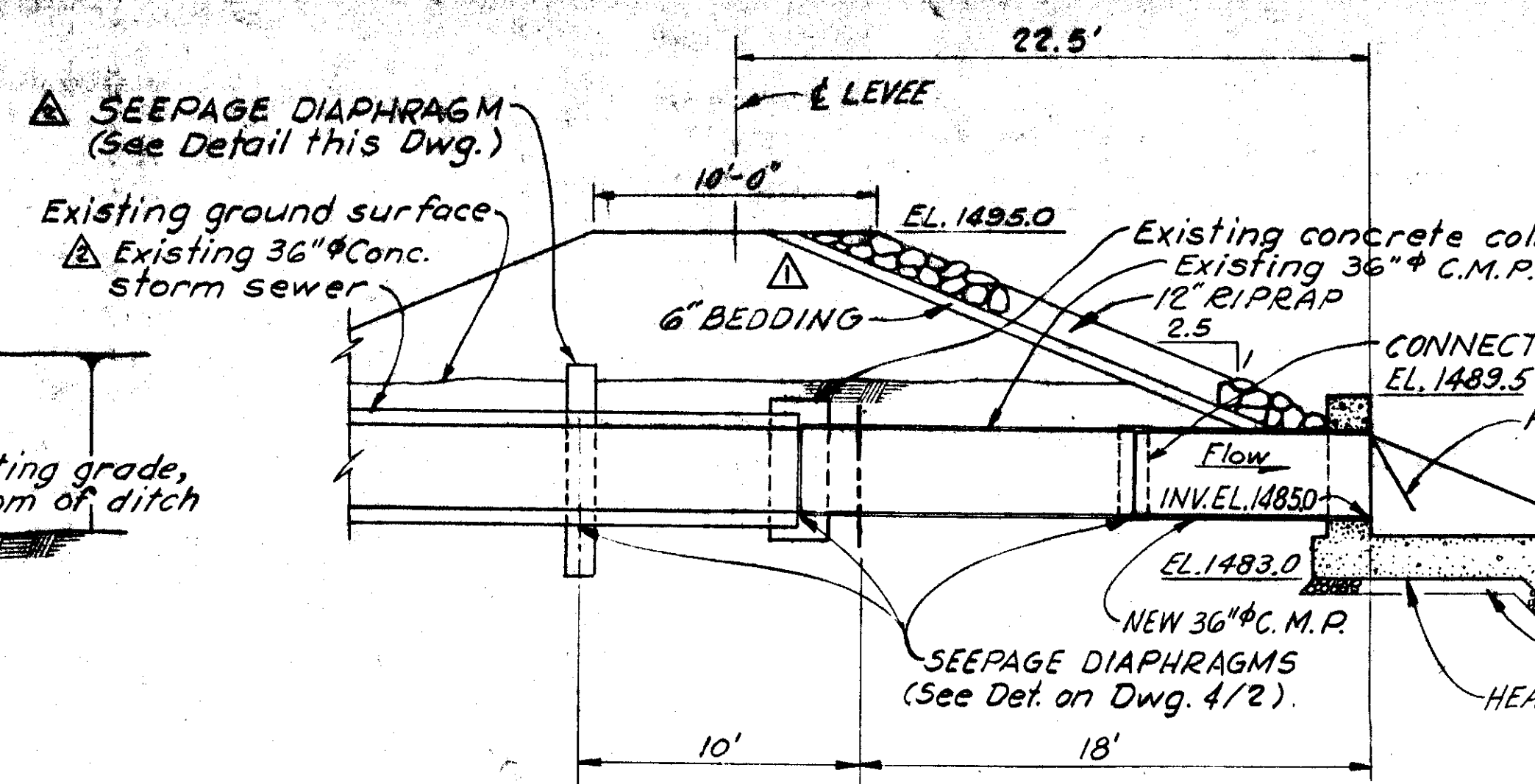
<b>AS CONSTRUCTED</b>	
SUBMITTED: <i>[Signature]</i> CHIEF CONSTRUCTION-OPERATIONS DIVISION	APPROVED: <i>[Signature]</i> COL., C.E. DISTRICT ENGINEER
5/22/73 REVISED IN ACCORDANCE WITH AMENDMENT 0001 U.S. ARMY ENGINEER DISTRICT, BUFFALO CORPS OF ENGINEERS BUFFALO, NEW YORK 14207	
DRAWN BY: I.S.S. DESIGNED BY: J.A.K. CHECKED BY: SUBMITTED BY: <i>[Signature]</i> CHIEF, TECHNICAL BRANCH	LOCAL FLOOD PROTECTION WELLSVILLE, NEW YORK DETAILS OF HEADWALL "A" AND "B"
APPROVAL RECOMMENDED: <i>[Signature]</i> CHIEF, ENGINEERING DIVISION	APPROVED: <i>[Signature]</i> COL., C.E. DISTRICT ENGINEER
TO ACCOMPANY SPECIFICATIONS SERIAL NO. 100-10 23 21 2070	SCALE: AS SHOWN DRAWING NO. 100-10 23 21 2070 SHEET 11 OF 11





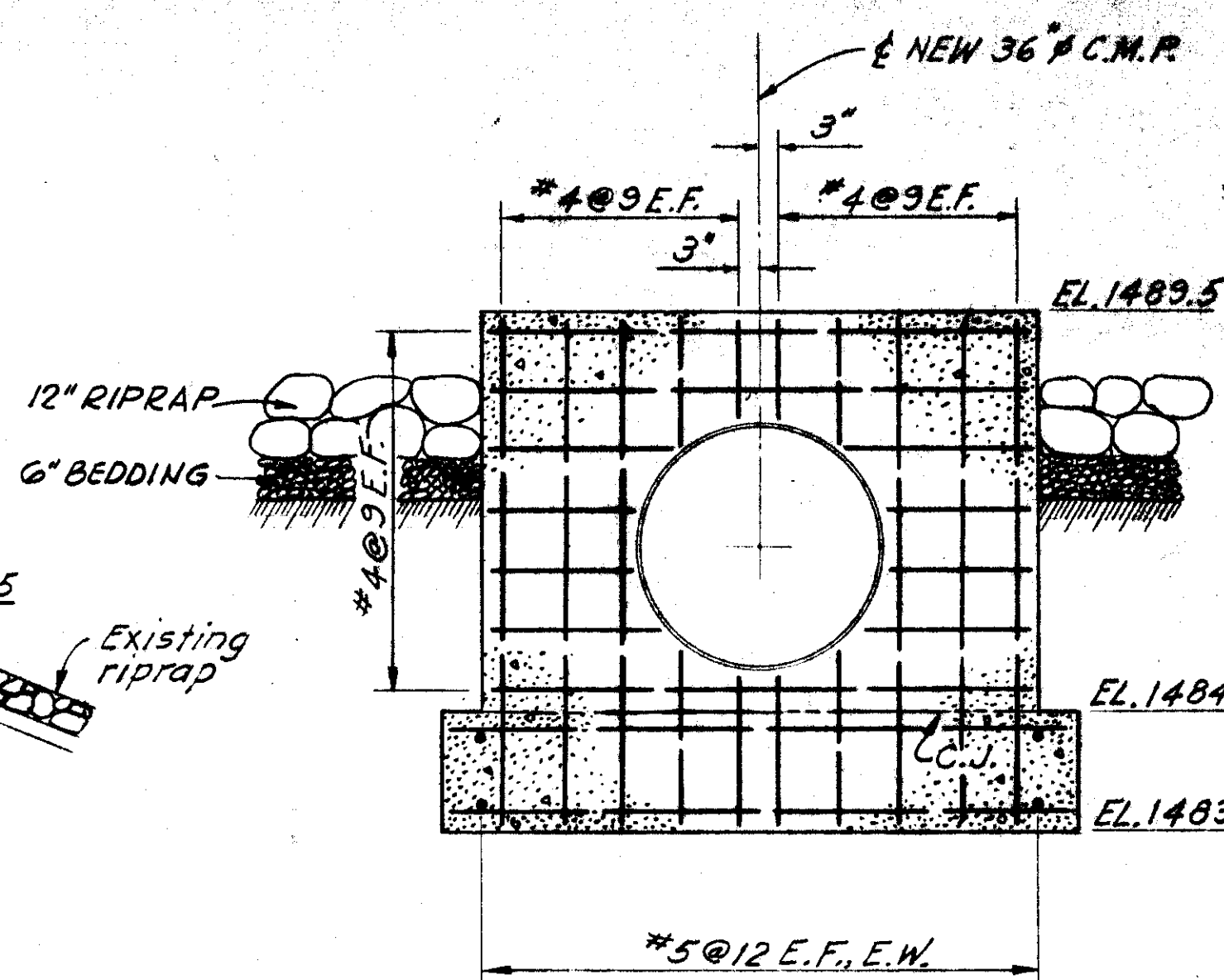
PROFILE - 48" C.M.P. OUTLET

SCALE 1" = 5'



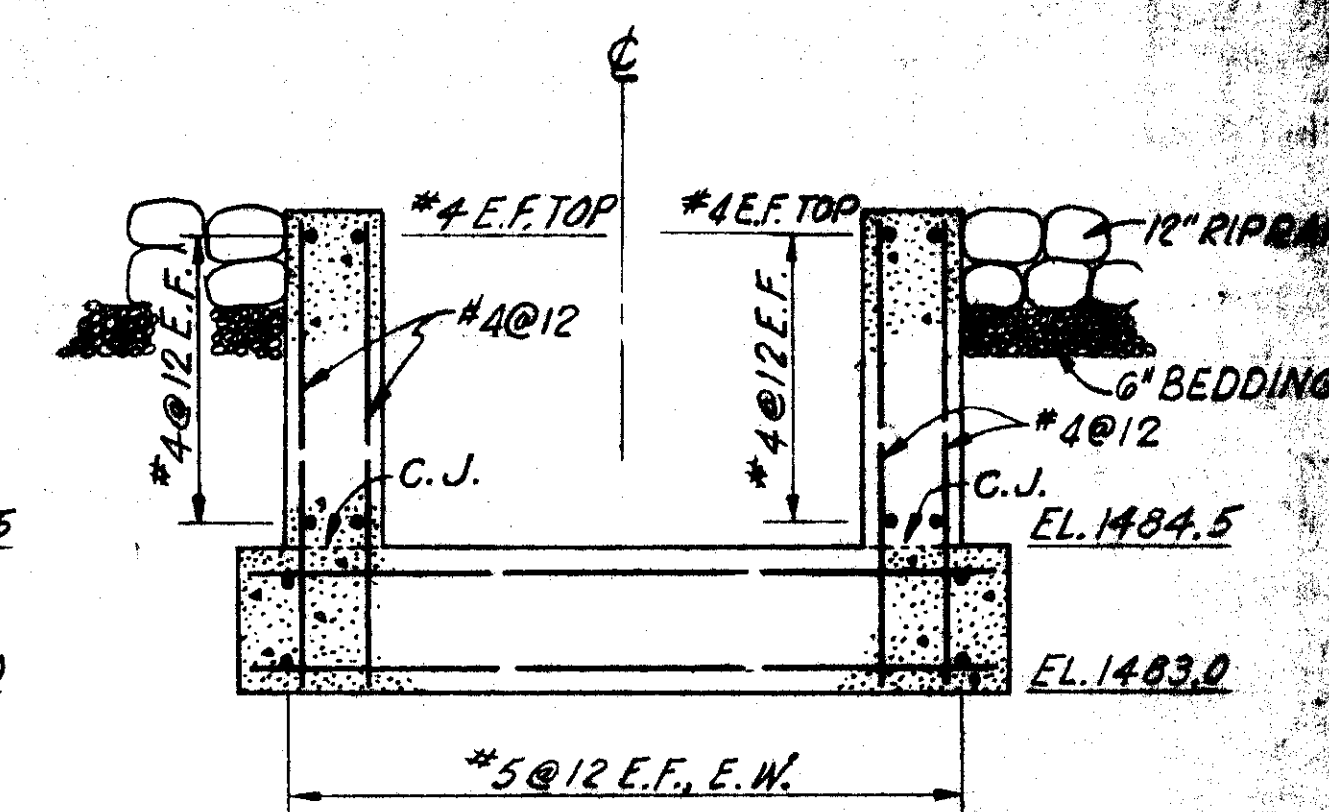
PROFILE - 36" PIPE OUTLET

SCALE 1" = 5'



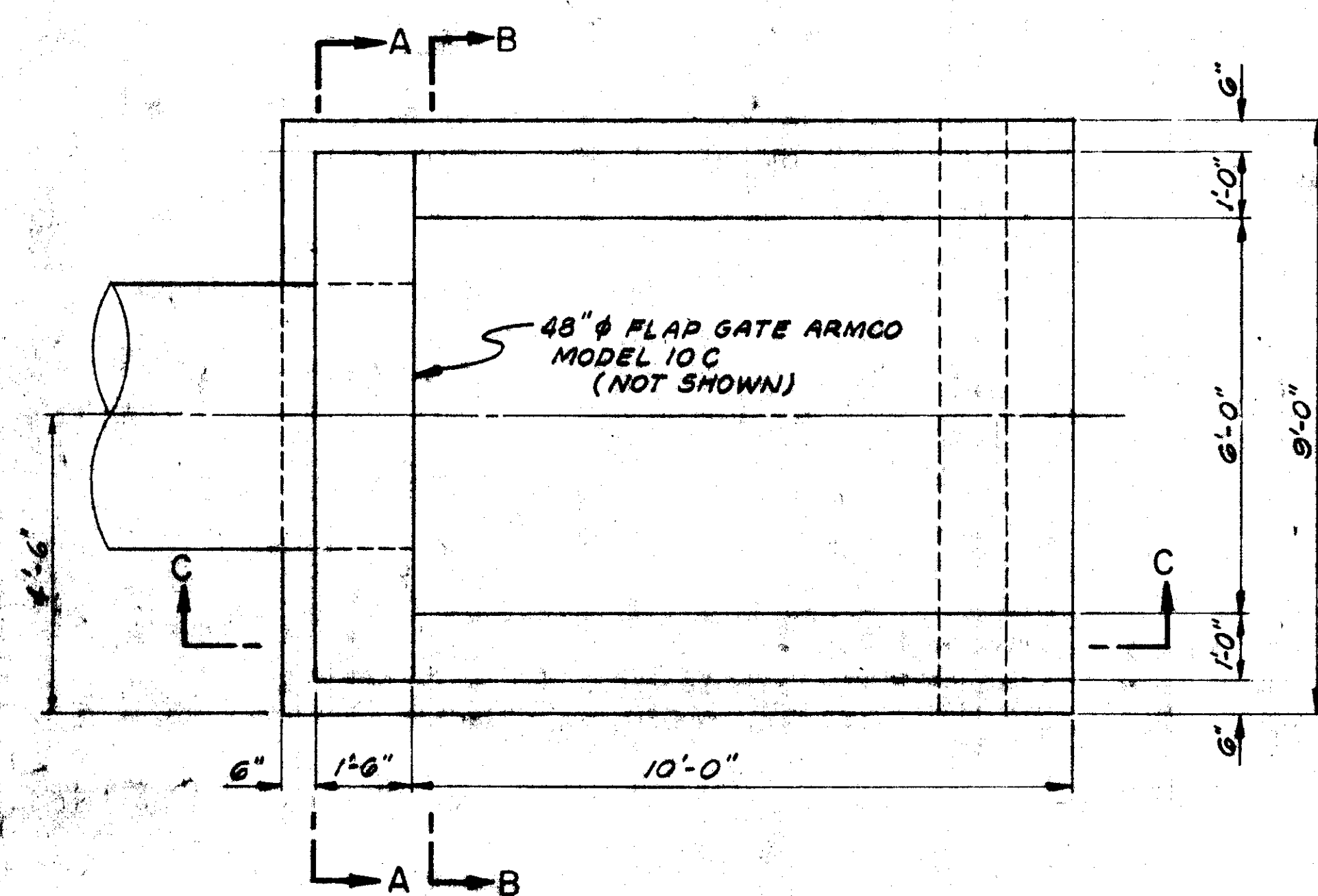
SECTION D-D

SCALE 1/2" = 1'-0"



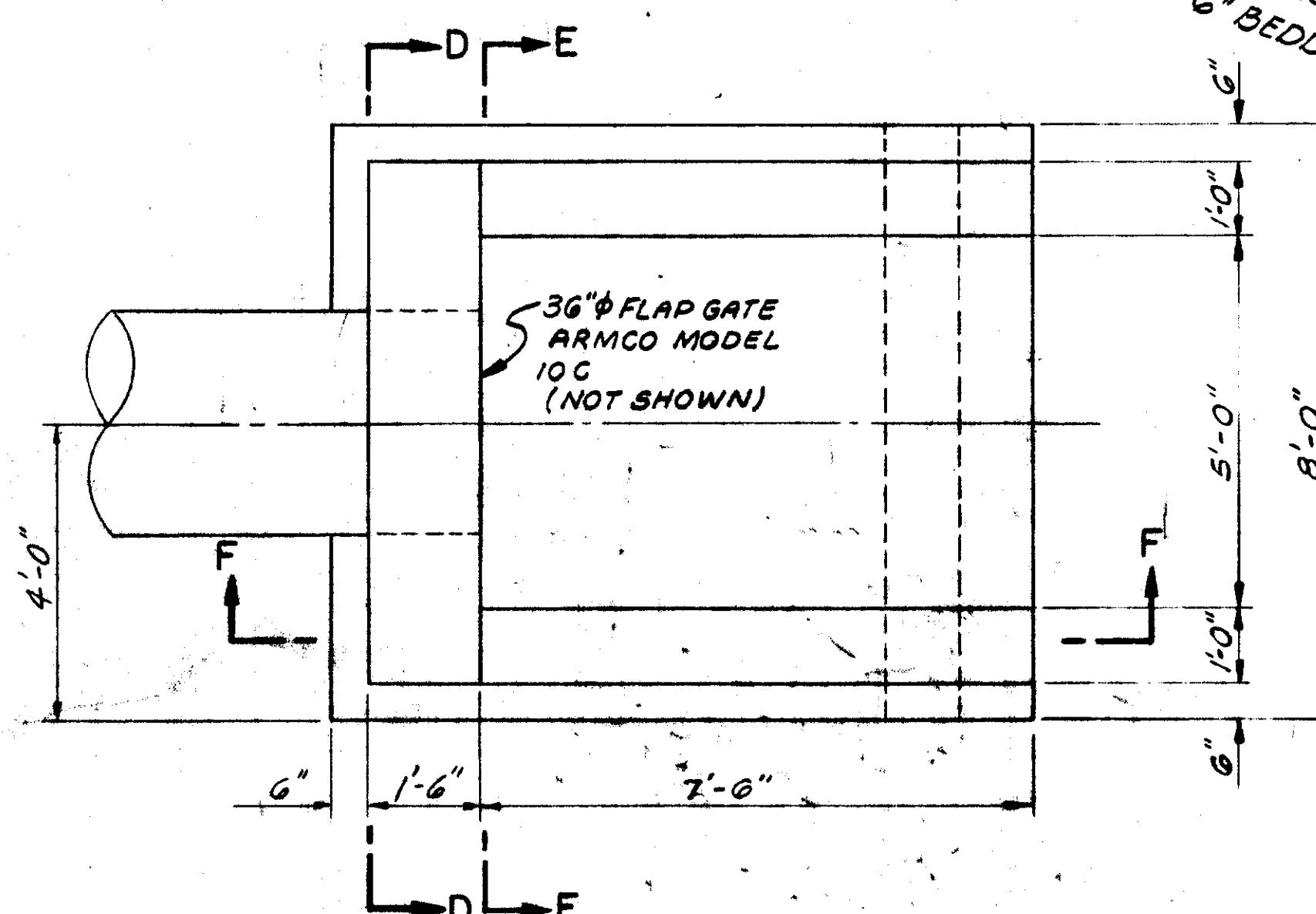
SECTION E-E

SCALE 1/2" = 1'-0"



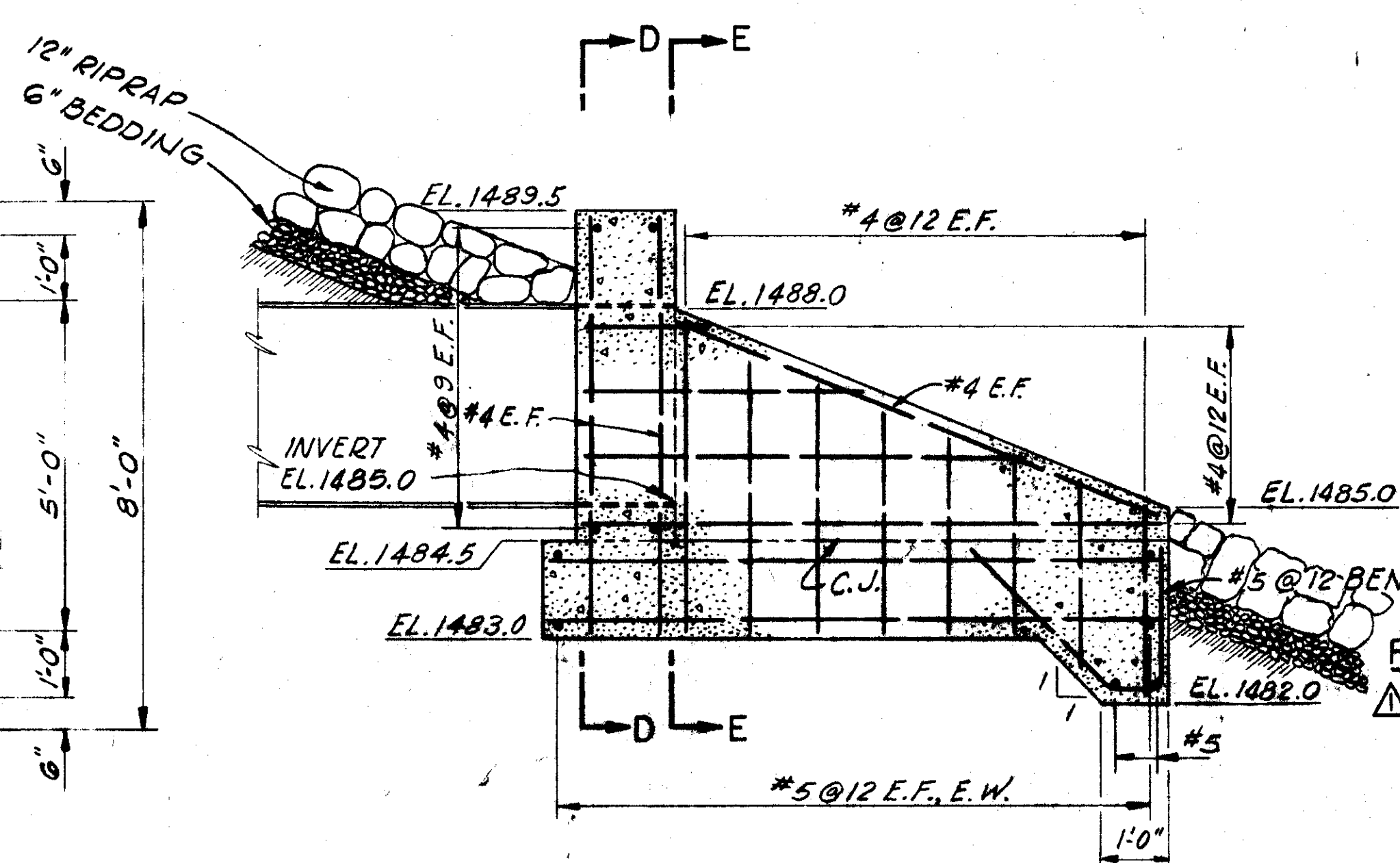
PLAN - HEADWALL "C"

SCALE 1/2" = 1'-0"



PLAN - HEADWALL "D"

SCALE 1/2" = 1'-0"



SECTION F-F

SCALE 1/2" = 1'-0"

#### REINFORCEMENT NOTES:

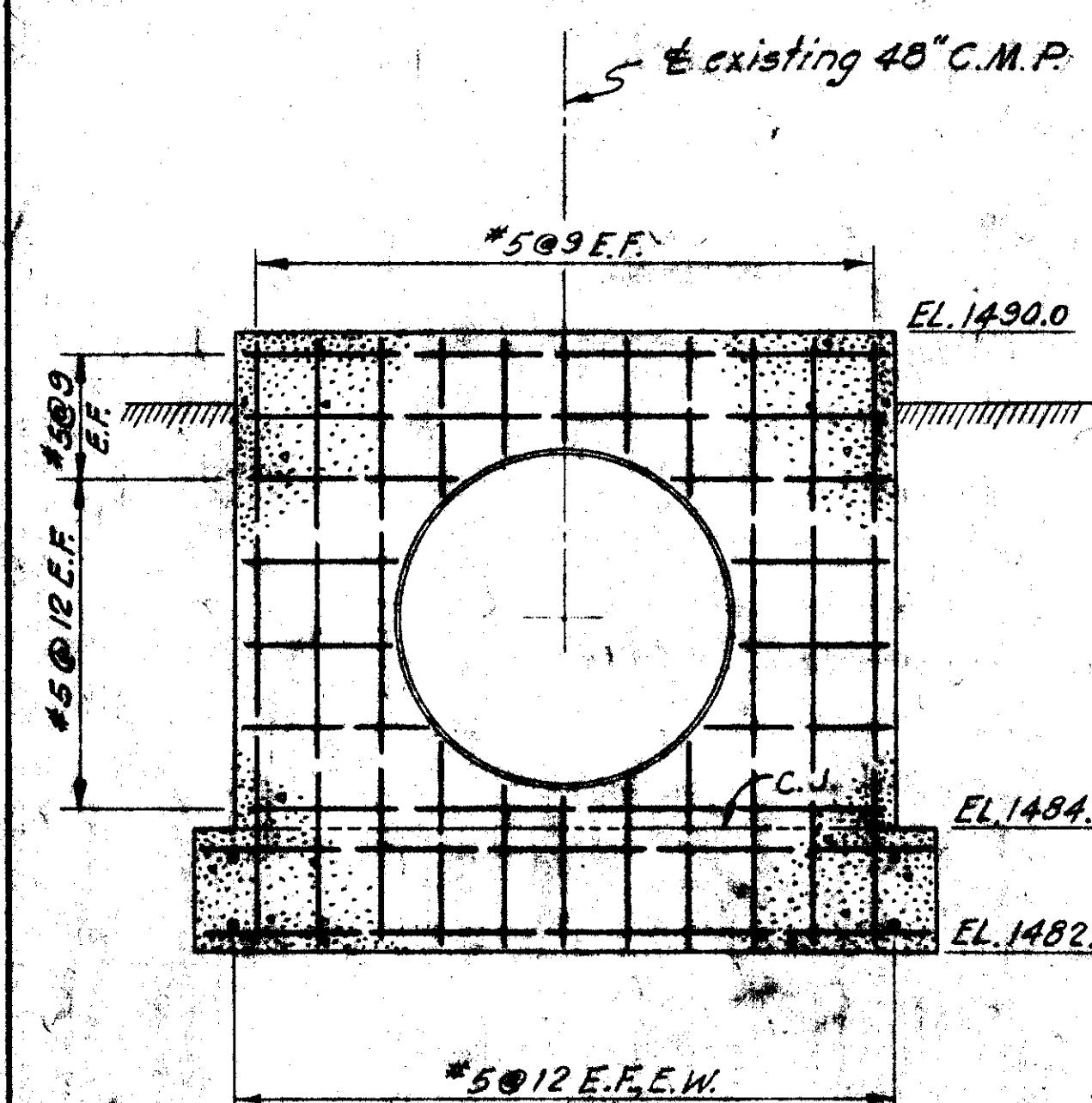
1. All reinforcement has a minimum of 2" cover.
2. Unless otherwise noted all bends and hooks in accordance with A.C.I. building code.
3. All dimensions are to center line of bars unless otherwise noted.
4. Reinforcement not detailed at openings and embedded items shifted, bent, or cut as directed by the Contracting Officer.

#### REINFORCEMENT SYMBOLS:

E.F. - each face  
E.W. - each way  
C.J. - construction joint  
L.G. - Long  
F.F. - For Face  
Exp. Jt. - Expansion Joint  
Contr. Jt. - Contraction Joint  
N.F. - Near Face  
o.c. - on center

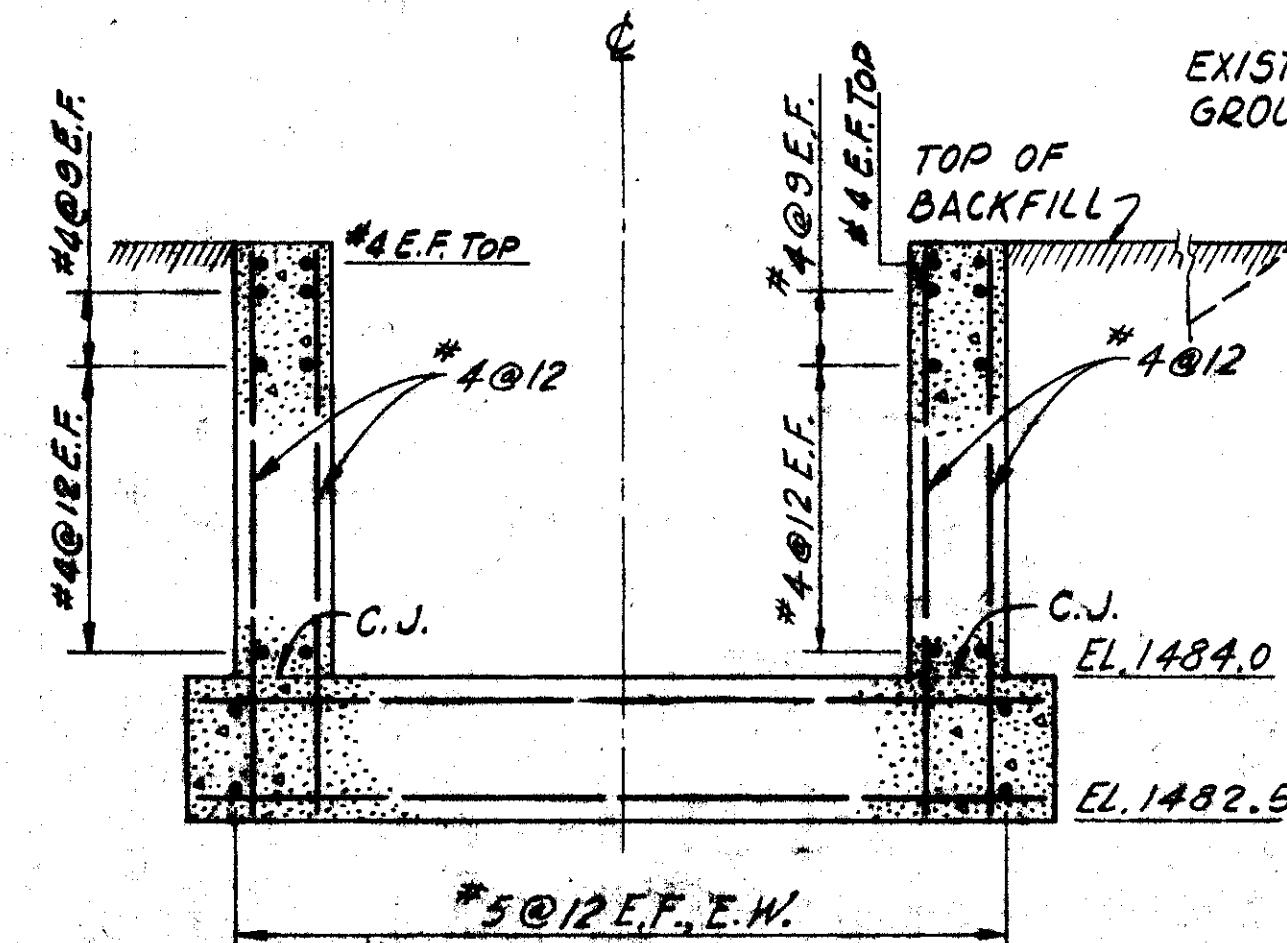
#### NOTES:

For locations of headwalls "C" and "D" see drawing 2/4.  
For general notes and legend see drawing 1/1.



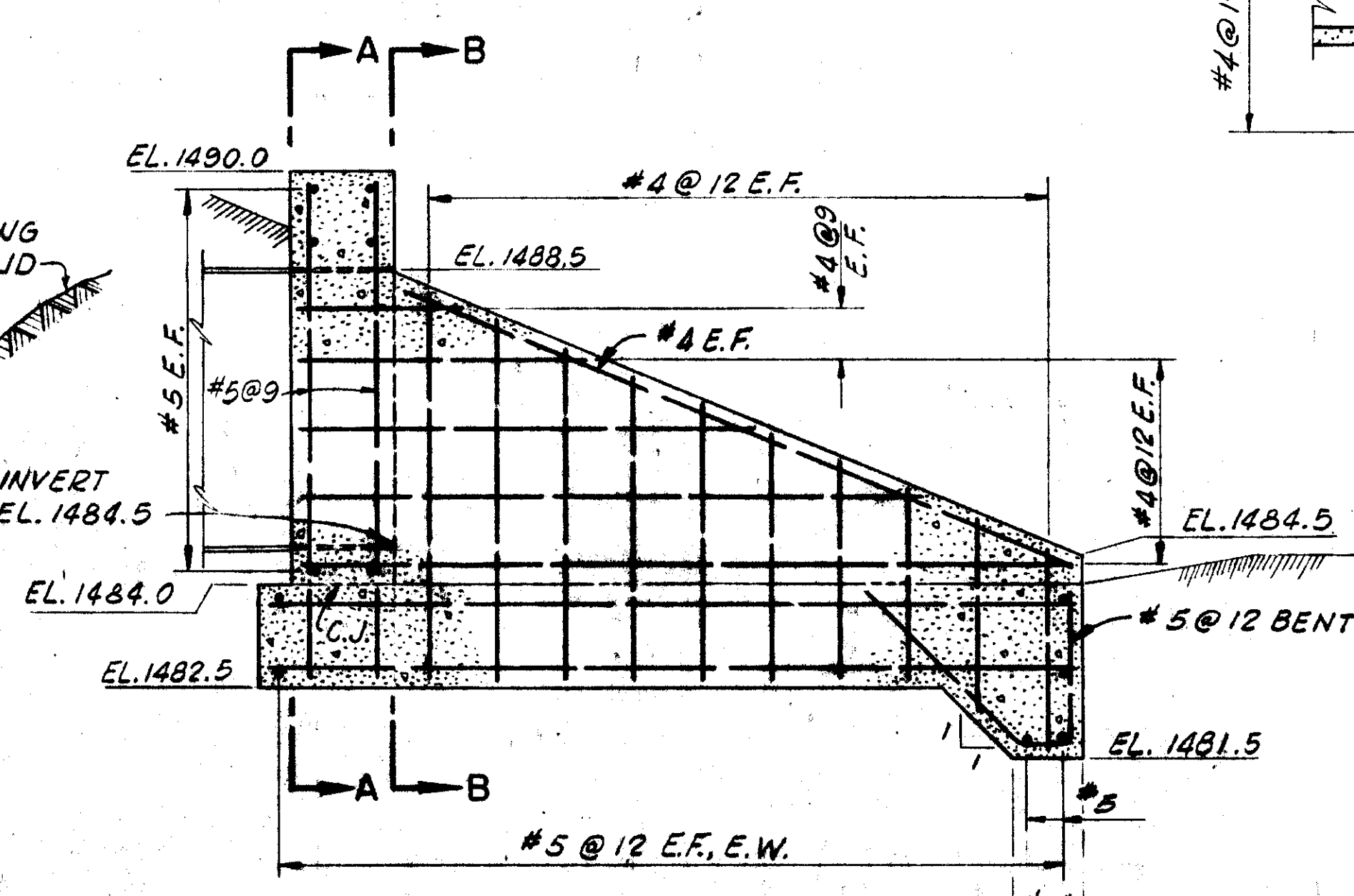
SECTION A-A

SCALE 1/2" = 1'-0"



SECTION B-B

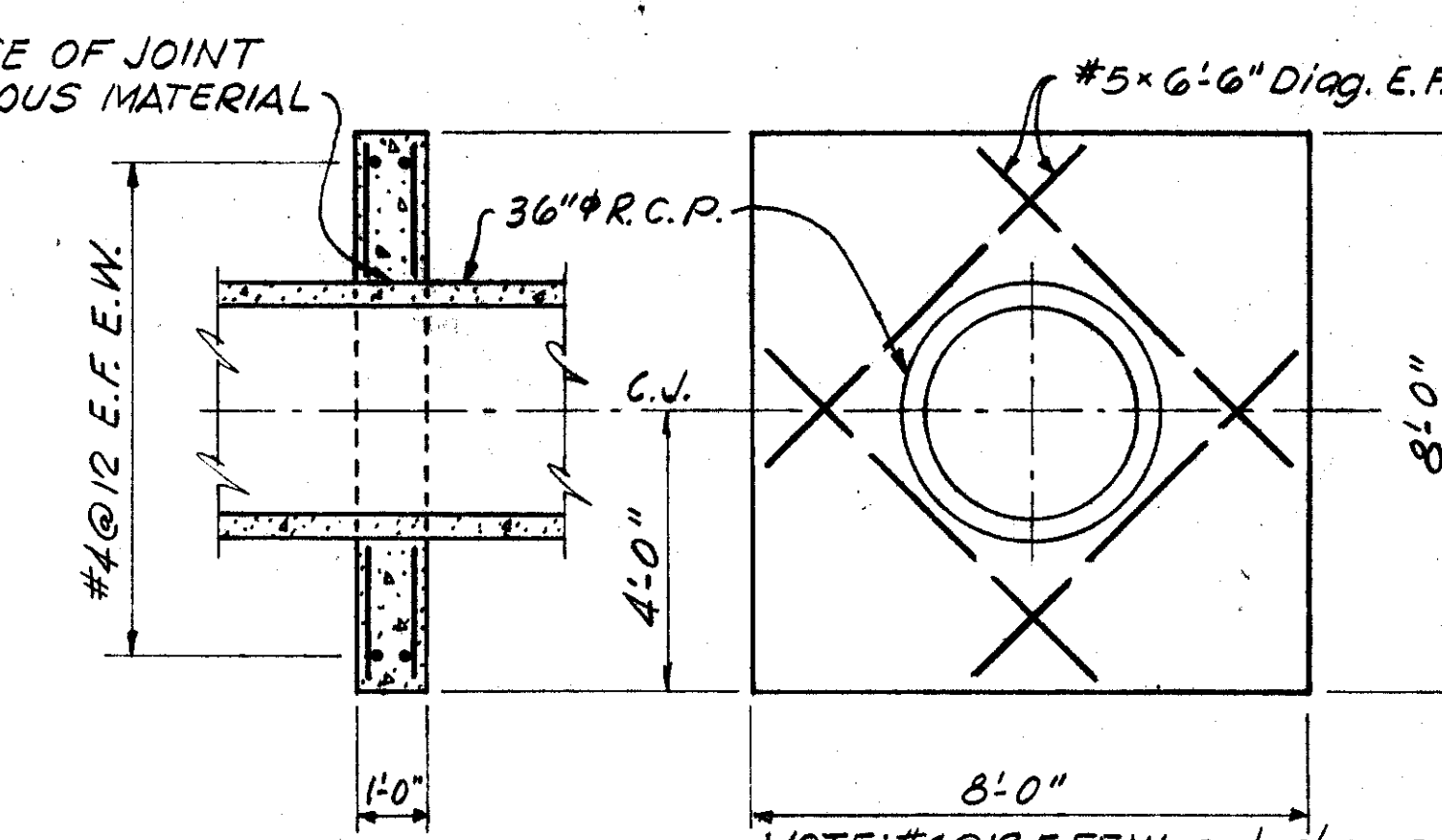
SCALE 1/2" = 1'-0"



SECTION C-C

SCALE 1/2" = 1'-0"

PAINT SURFACE OF JOINT WITH BITUMINOUS MATERIAL



SEEPAGE DIAPHRAGM

SCALE 1/2" = 1'-0"

#### AS CONSTRUCTED

SUBMITTED: *[Signature]*  
CHIEF CONSTRUCTION-OPERATIONS DIVISION

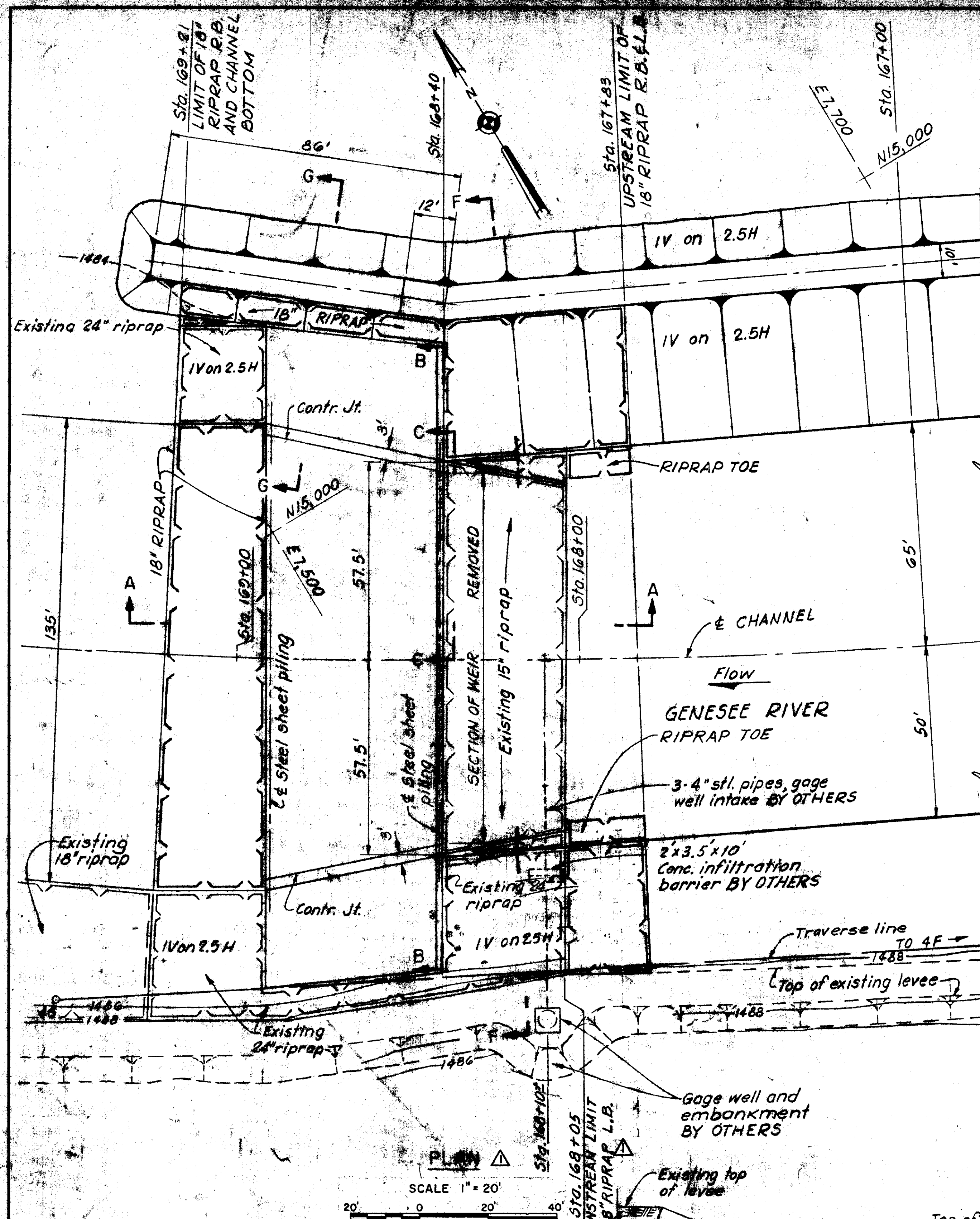
APPROVED: *[Signature]*  
COL., C.E. DISTRICT ENGINEER

REVISION	DATE	DESCRIPTION	BY
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2	5/22/73	REVISED IN ACCORDANCE WITH AMENDMENT 0001	W

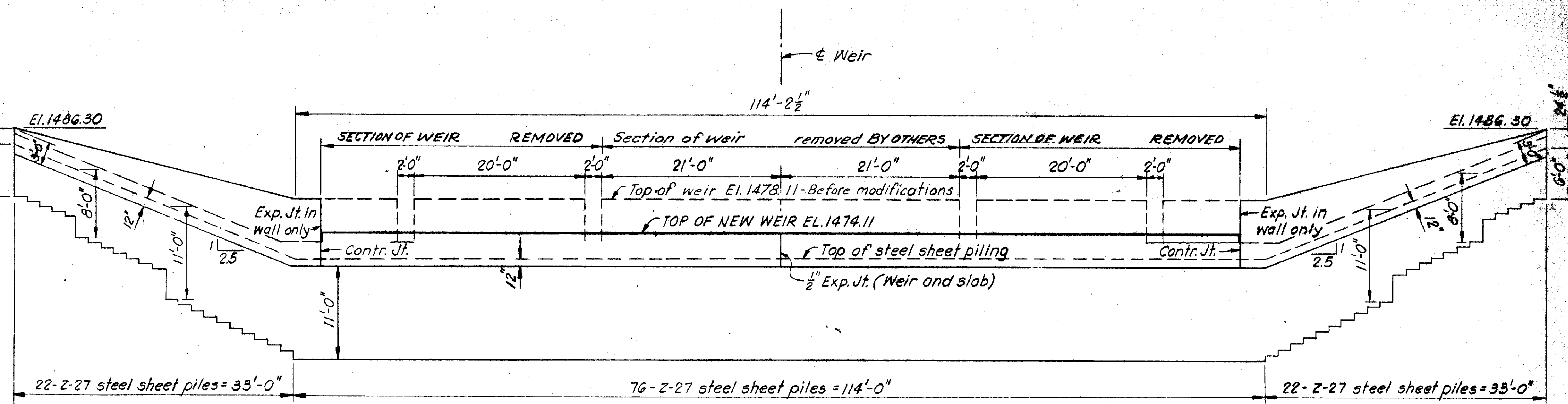
  

U.S. ARMY ENGINEER DISTRICT, BUFFALO CORPS OF ENGINEERS BUFFALO, NEW YORK 14207	
DRAWN BY: I.S.S.	LOCAL FLOOD PROTECTION WELLSVILLE, NEW YORK
DESIGNED BY: J.A.K.	DETAILS-GENESEE RIVER
CHECKED BY:	
SUBMITTED BY:	
APPROVAL RECOMMENDED:	
DATE: 19 APRIL 1973	



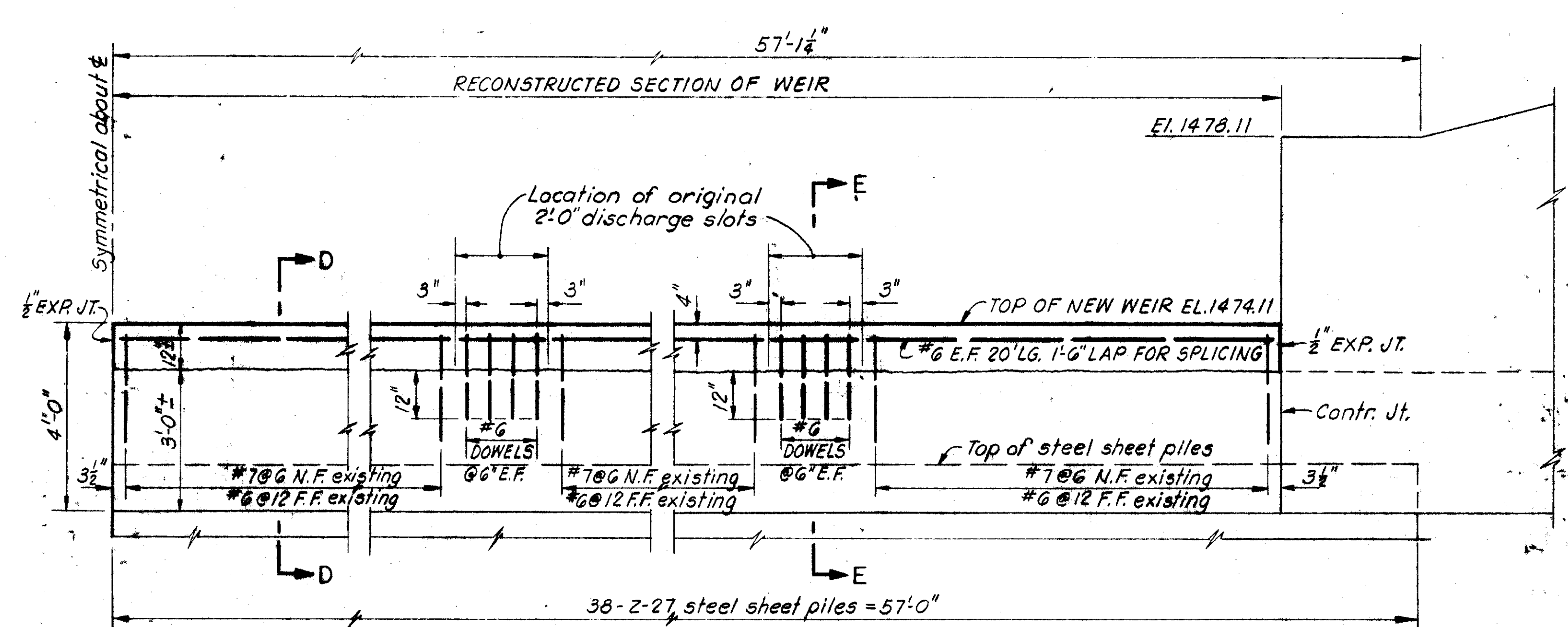


PLAN  
SCALE 1" = 20'

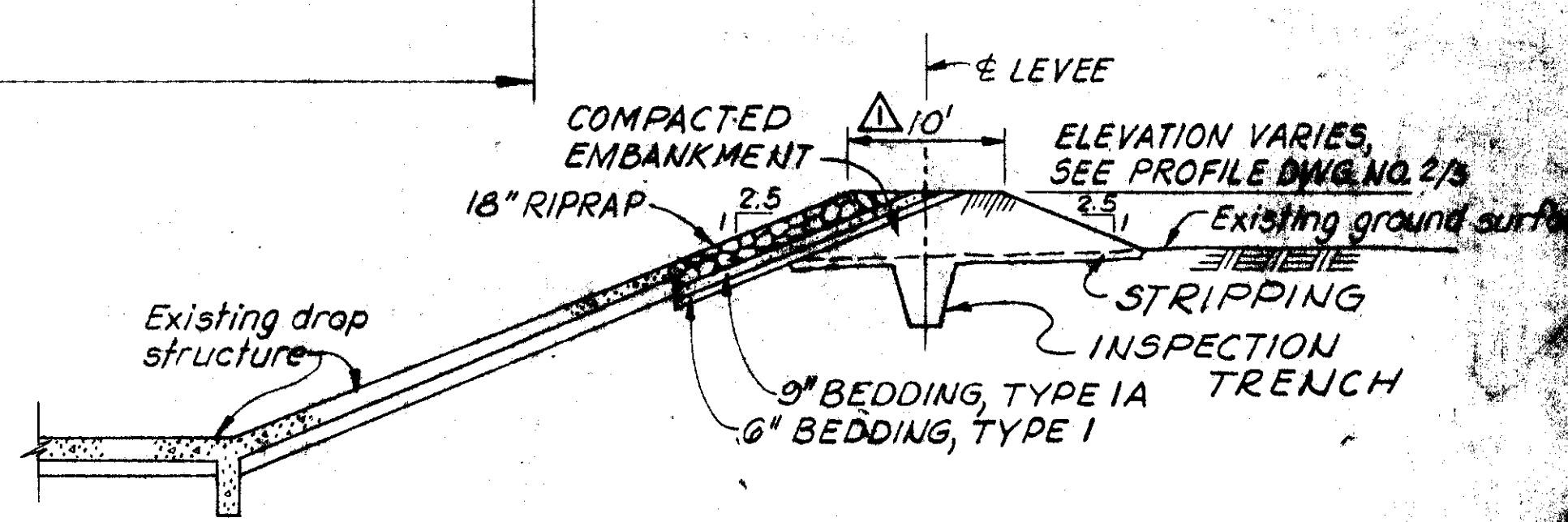


SECTION B-B  
SCALE 1" = 1'-0"

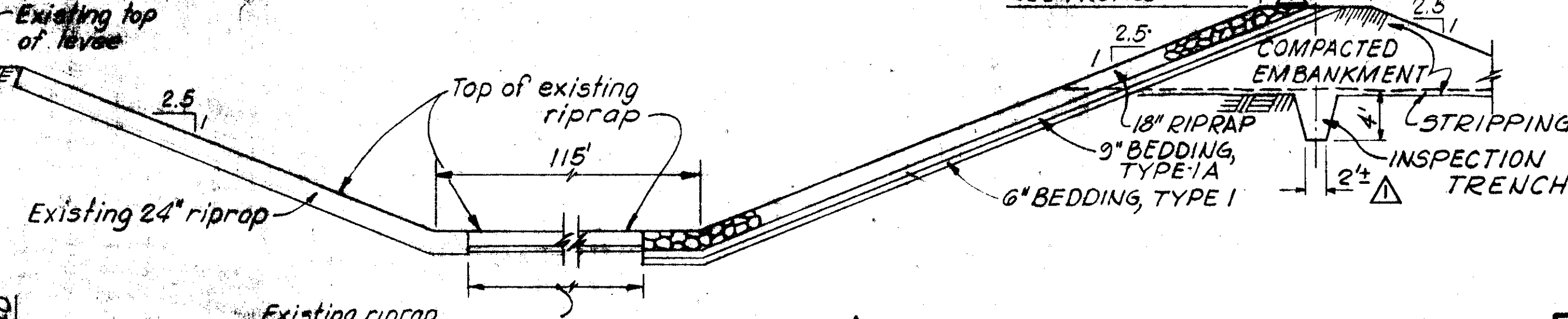
NOTE:  
EARTH AND RIPRAP NOT SHOWN



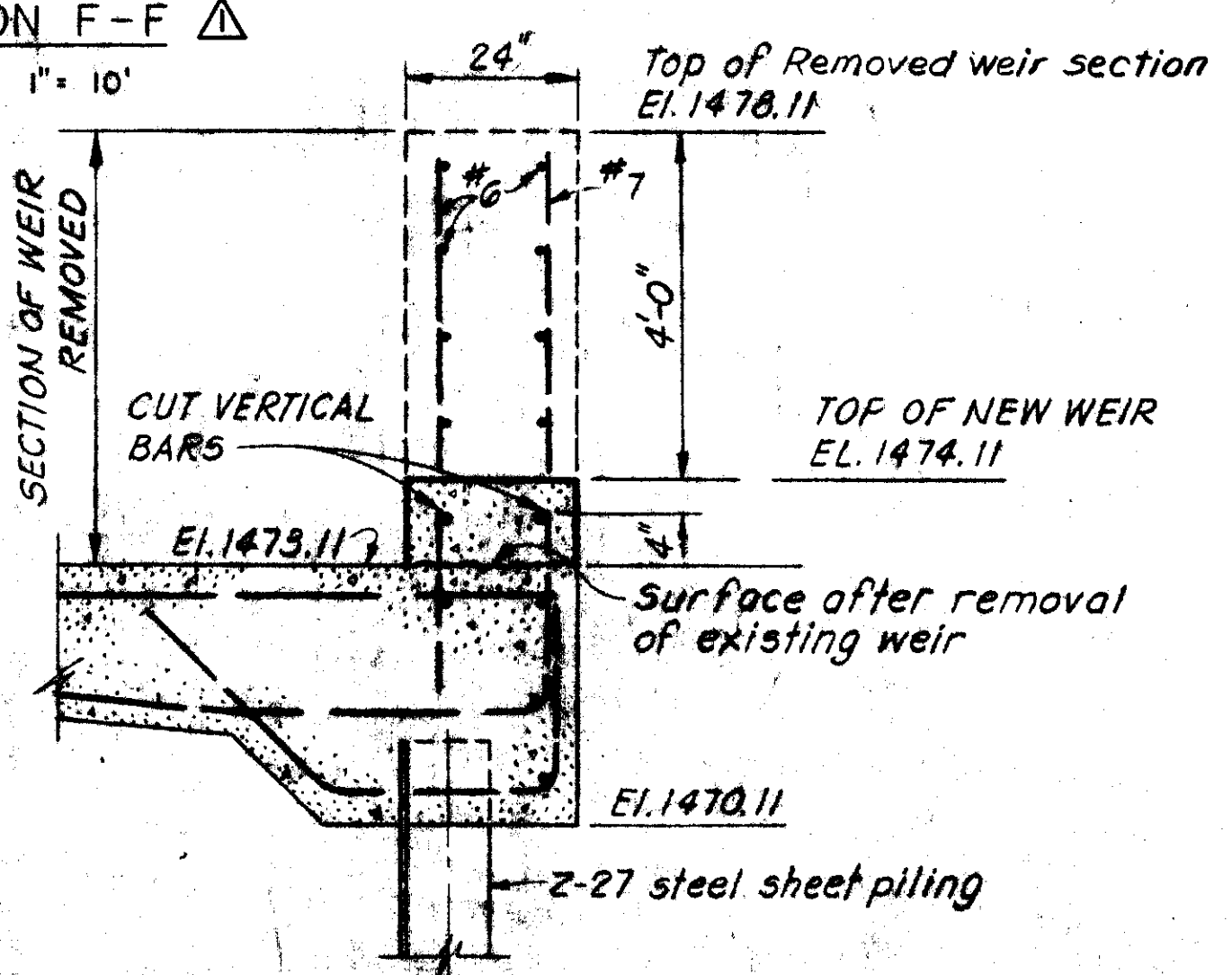
SECTION C-C  
SCALE 1" = 1'-0"



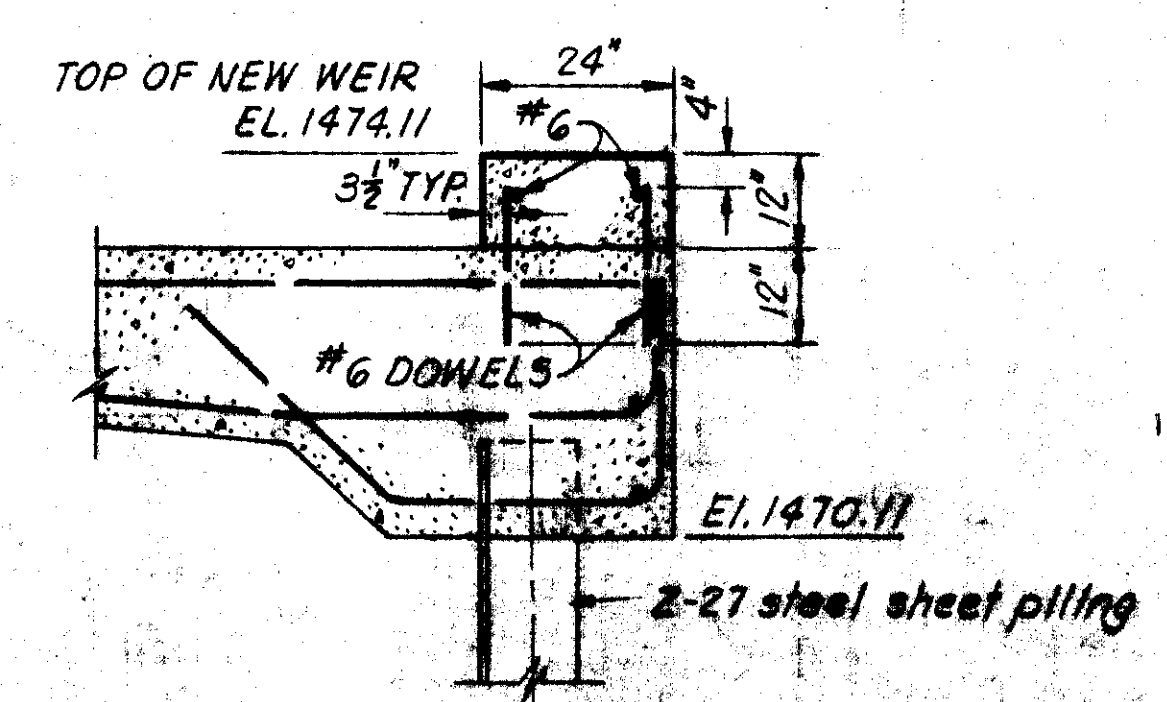
SECTION G-G  
SCALE 1" = 10'



SECTION F-F  
SCALE 1" = 10'



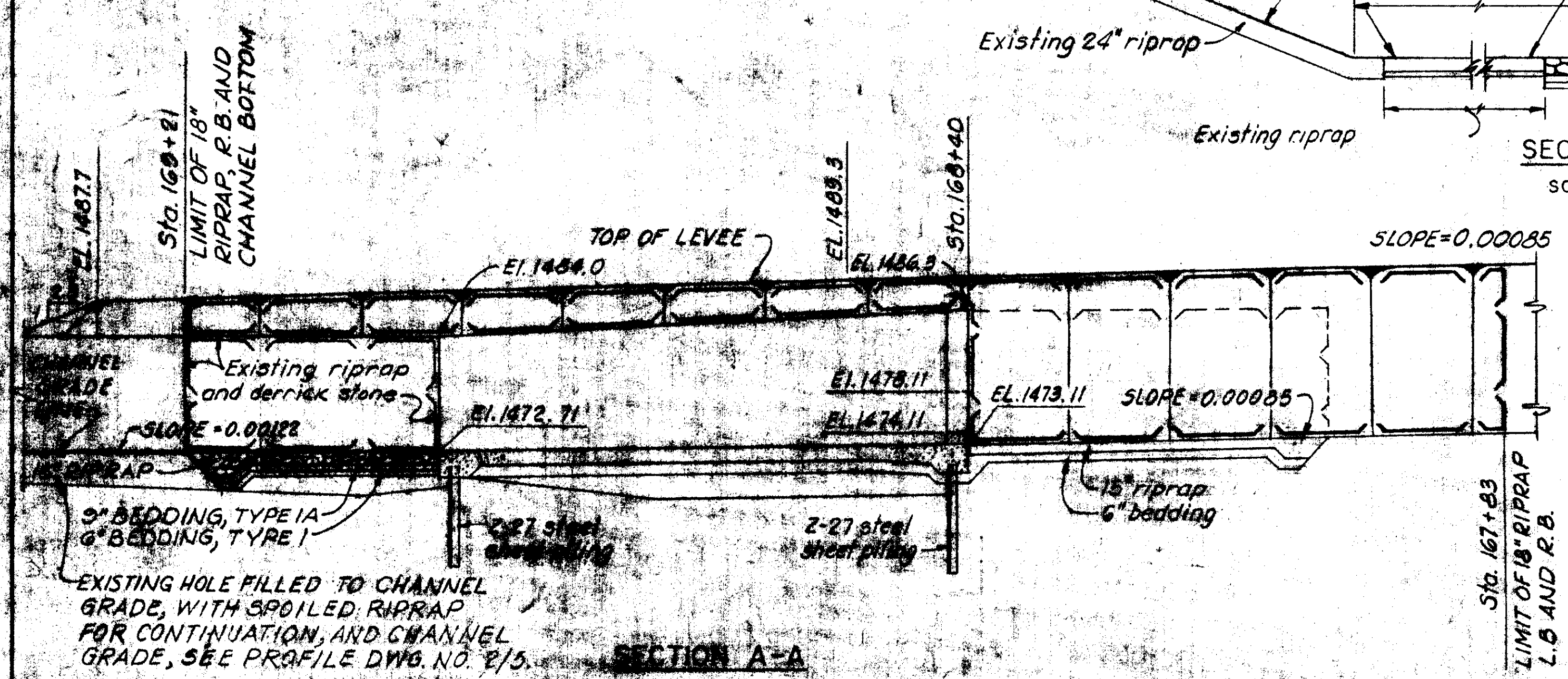
SECTION D-D  
SCALE 1" = 1'-0"



SECTION E-E  
SCALE 1" = 1'-0"

**AS CONSTRUCTED**  
SUBMITTED: [Signature] APPROVED: [Signature]  
CHIEF CONSTRUCTION-OPERATIONS DIVISION COL. C. E. DISTRICT ENGINEER

NOTES:  
For reinforcement notes and symbols, see Dwg. No. 4/3.  
For location of this weir, see Dwg. No. 2/5.  
For general notes and legend, see Dwg. No. 1/1.



SECTION A-A  
SCALE 1" = 10'

REVISION		DATE	DESCRIPTION
5/2/73			REVISED IN ACCORDANCE WITH AMENDMENT 0001
U.S. ARMY ENGINEER DISTRICT, BUFFALO CORPS OF ENGINEERS BUFFALO, NEW YORK 14207			
DRAWN BY: V. C. B.		LOCAL FLOOD PROTECTION WELLSVILLE, NEW YORK	
DESIGNED BY: J. A. K.		DETAILS-GENESEE RIVER	
CHECKED BY:		ALTERATIONS TO WEIR-STA. 168+40	
SUBMITTED BY: [Signature]		PLAN AND SECTIONS	
APPROVAL RECOMMENDED: [Signature]		DATE: 15 APRIL 1973	
CHIEF ENGINEERING DIVISION		SCALE: AS SHOWN	