

SUMMARY OF QUANTITIES
& INDEX OF SHEETS ON
SHEET 3, TYPICAL SECTIONS
ON SHEET 15

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

PLAN 1 INCH = 50 FT.
PROFILE 1 INCH = 50 FT.
CROSS SECTION 1 INCH = 5 FT.
VERT. 1 INCH = 10 FT.

SCALES

F.A. ROUTE 98

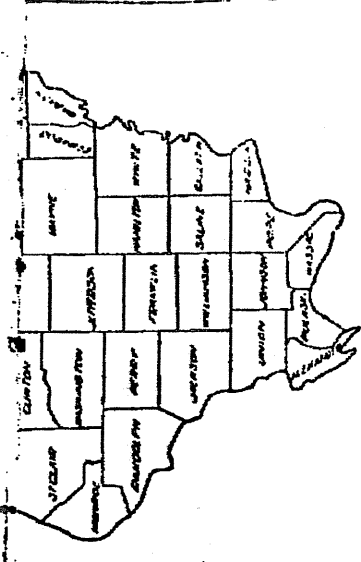
SECTION 207-0101-2B

PROJECT F-195(4)

COOK COUNTY

RETURN THIS PLAN
TO MAINTENANCE
ROOM 706
DRAWER

4



SECTION 207-0101-2B INCLUDES THE REMOVAL OF AN
EXISTING STRUCTURE, FURNISHING OF ALL MATERIALS AND
CONSTRUCTION OF A PRECAST, STRESSED CONCRETE I-BEAM
BRIDGE, SPANS 2 AT 45'-0" CARRYING U.S. ROUTE 66 OVER
FLA. CREEK AT STA. 46+10. SURVEY LINE ON U.S. ROUTE 66.
ALSO INCLUDED IS THE CONSTRUCTION OF U.S. ROUTE 66
APPROACH AND ROADWAY PAVEMENTS CONSISTING OF DUAL
24 FOOT P.C.C. PAVEMENTS WITH A 4'-0" MEDIAN CURB,
AND THE CONSTRUCTION AND REMOVAL OF A TEMPORARY
DETOUR ROAD AND TEMPORARY CULVERTS.

MARKED PLANS

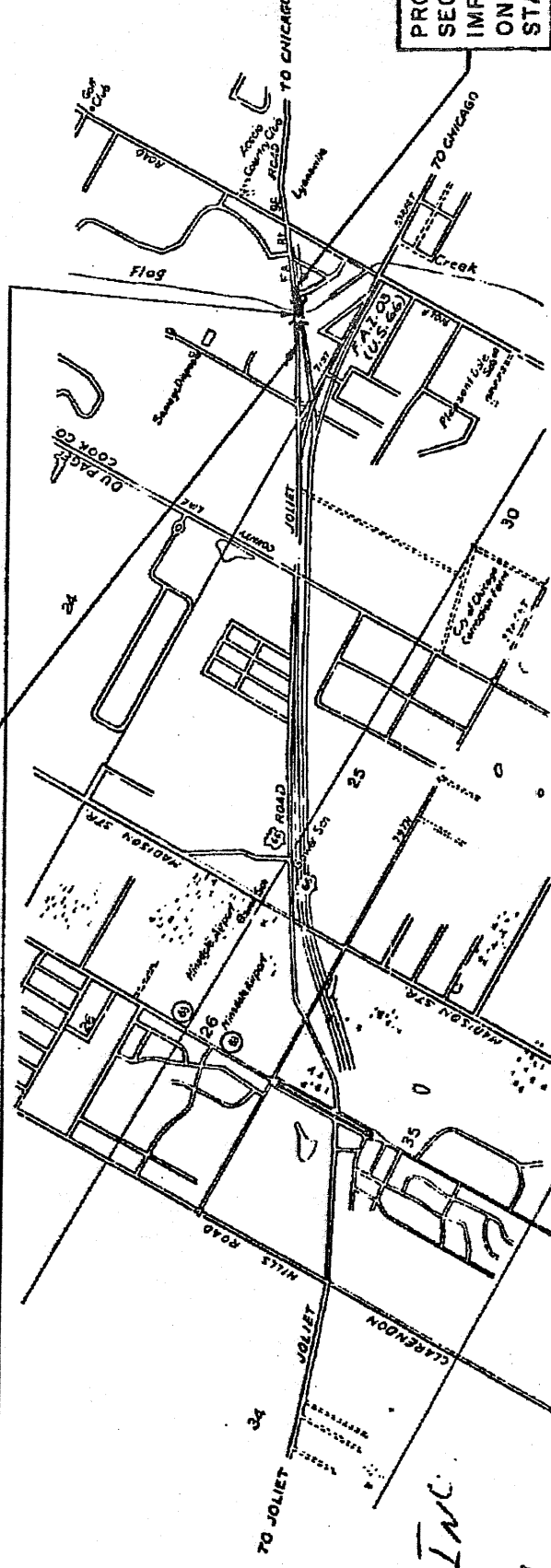
CONTRACTOR - L.B. STRANDBERG & SON, INC.

DATE OF AWARD - 7-24-59

COMPLETED - 3-24-61

RESIDENT ENGINEER - J. R. MATRAVERS

CONSTRUCTED ACCORDING TO THE PLAN
EXCEPT AS NOTED IN RED INK



PROJECT F-195(4)
SECTION 207-0101-2B
IMPROVEMENT BEGINS
ON U.S. ROUTE 66
STA. 41+50.00

PROJECT F-195(4)
SECTION 207-0101-2B
IMPROVEMENT ENDS
ON U.S. ROUTE 66
STA. 47+44.24

LOCATION OF SECTION INDICATED THIS: -

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
SUBMITTED Sept 22 1959
EXAMINED Oct 27 1959
PASSED Oct 27 1959
APPROVED Oct 27 1959
APPLIED TO Oct 27 1959
E. S. Magowan
J. V. Van Dine
J. R. MatraVERS
E. S. Magowan

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER
DATE

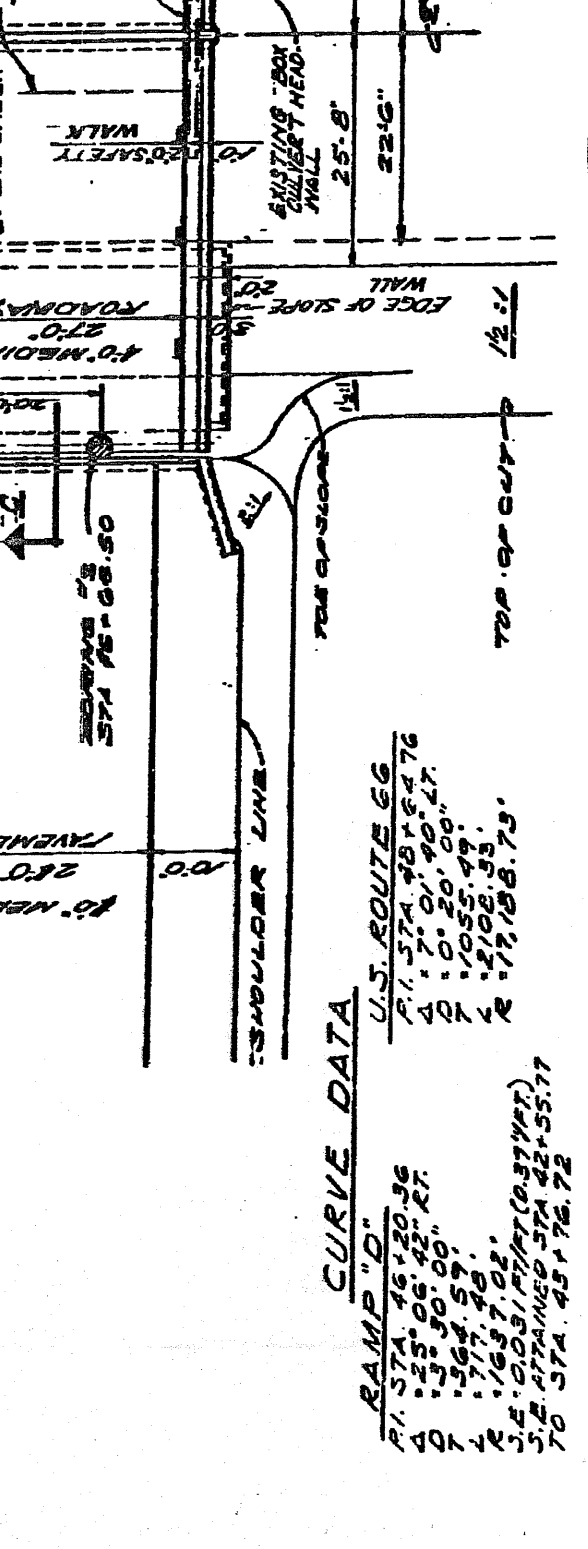
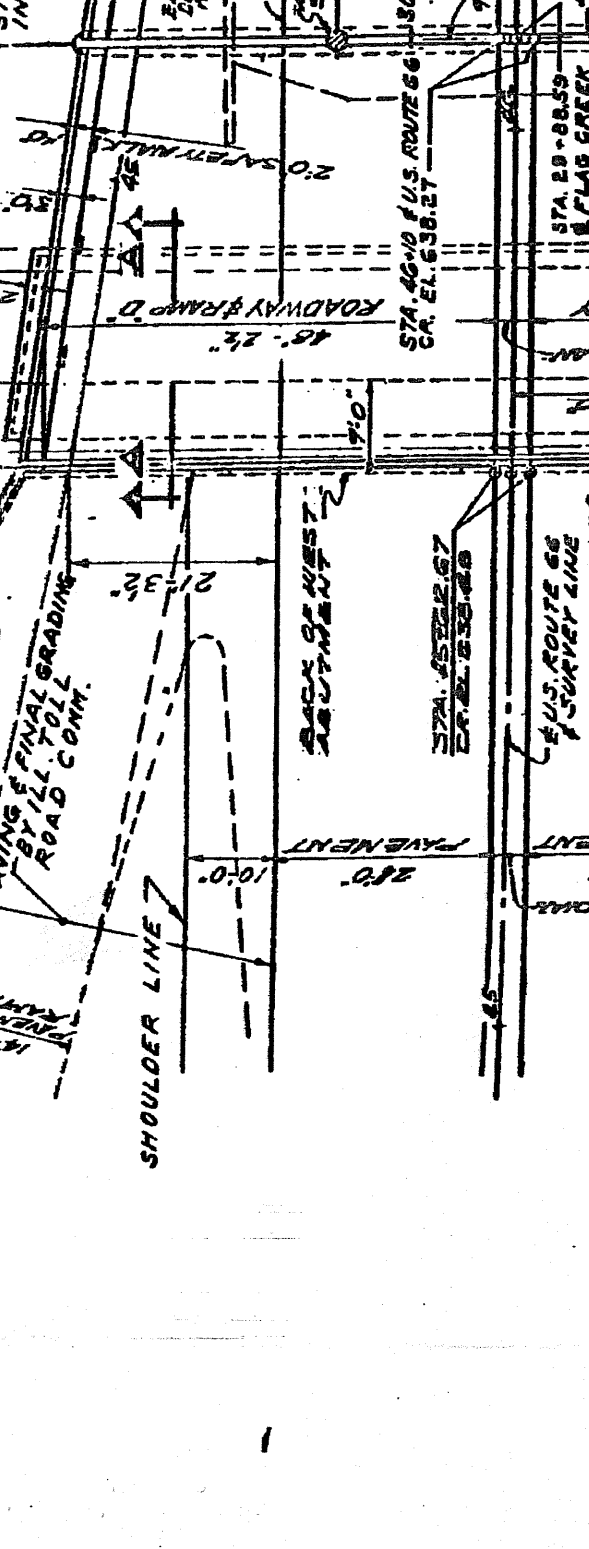
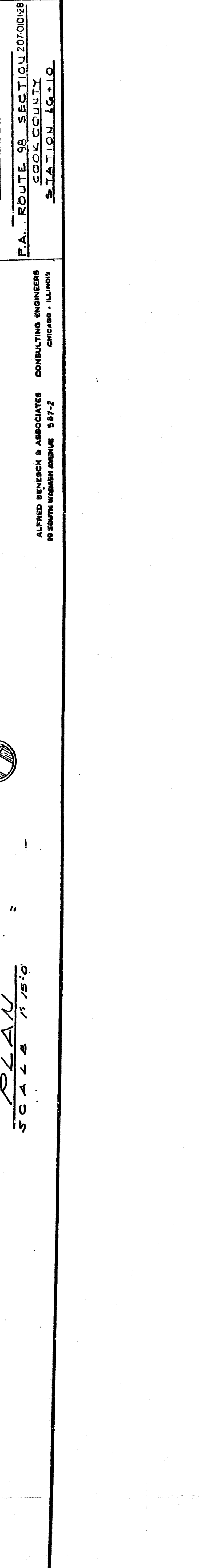
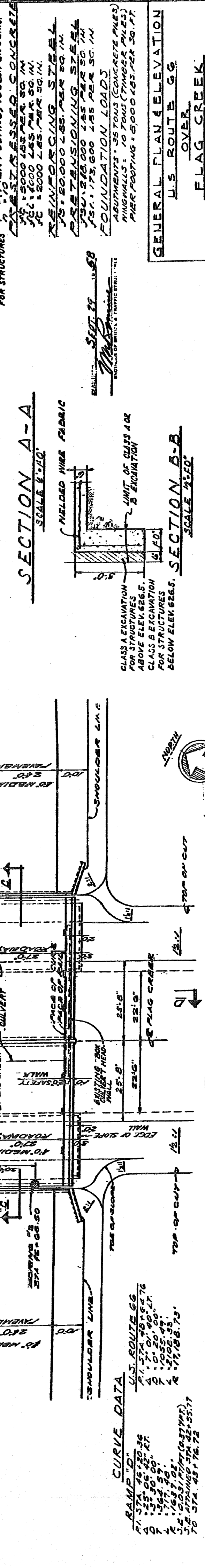
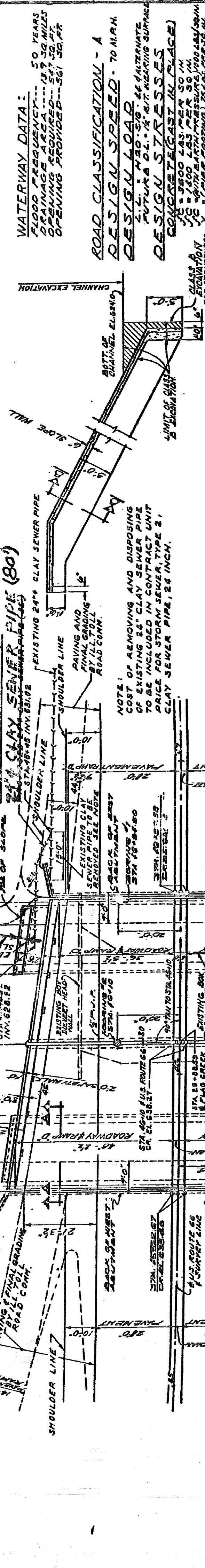
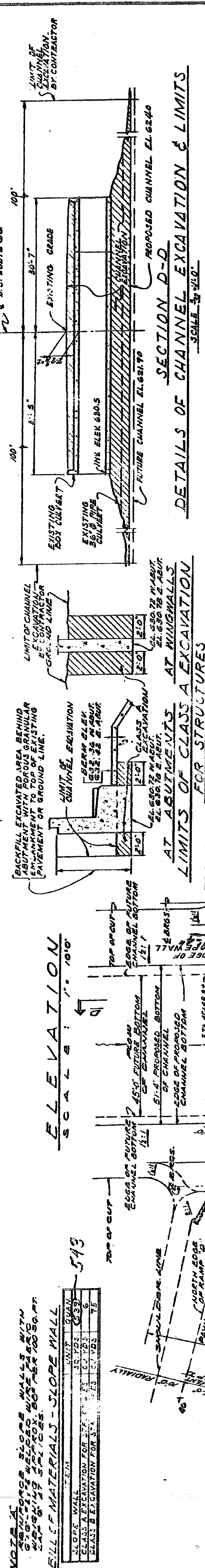
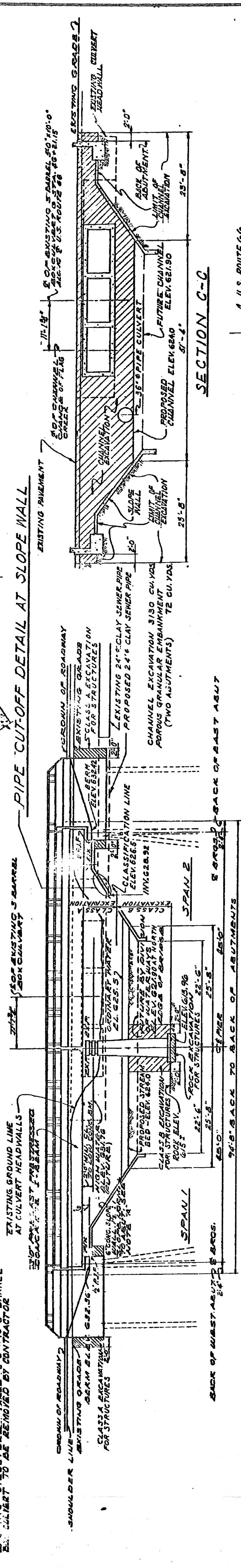
GROSS LIMITS OF CONTRACT 59424 FEET 0.113 MILES

1300

Joliet Rd

ROUTE NO.	SECTION	DATE	BY	CHKD.	APP'D.
FA 98	ROUTE 66	COOK	24	2	
STA.	TO STA.				
100+00.00	100+00.00				

NOTE: TO BE CENTERED ON EXISTING & OF U.S. ROUTE 66 AT STATION 100+00.00. EXISTING STRUCTURE TO BE REMOVED BY CONTRACTOR.



ROUTE NO.	SECTION	DATE	BY	CHKD.	APP'D.
FA 98	ROUTE 66	COOK	24	2	
STA.	TO STA.				
100+00.00	100+00.00				

ROUTE NO.	SECTION	DATE	BY	CHKD.	APP'D.
FA 98	ROUTE 66	COOK	24	2	
STA.	TO STA.				
100+00.00	100+00.00				

ROUTE NO.	SECTION	DATE	BY	CHKD.	APP'D.
FA 98	ROUTE 66	COOK	24	2	
STA.	TO STA.				
100+00.00	100+00.00				

NOTE: TO BE CENTERED ON EXISTING & OF U.S. ROUTE 66 AT STATION 100+00.00. EXISTING STRUCTURE TO BE REMOVED BY CONTRACTOR.

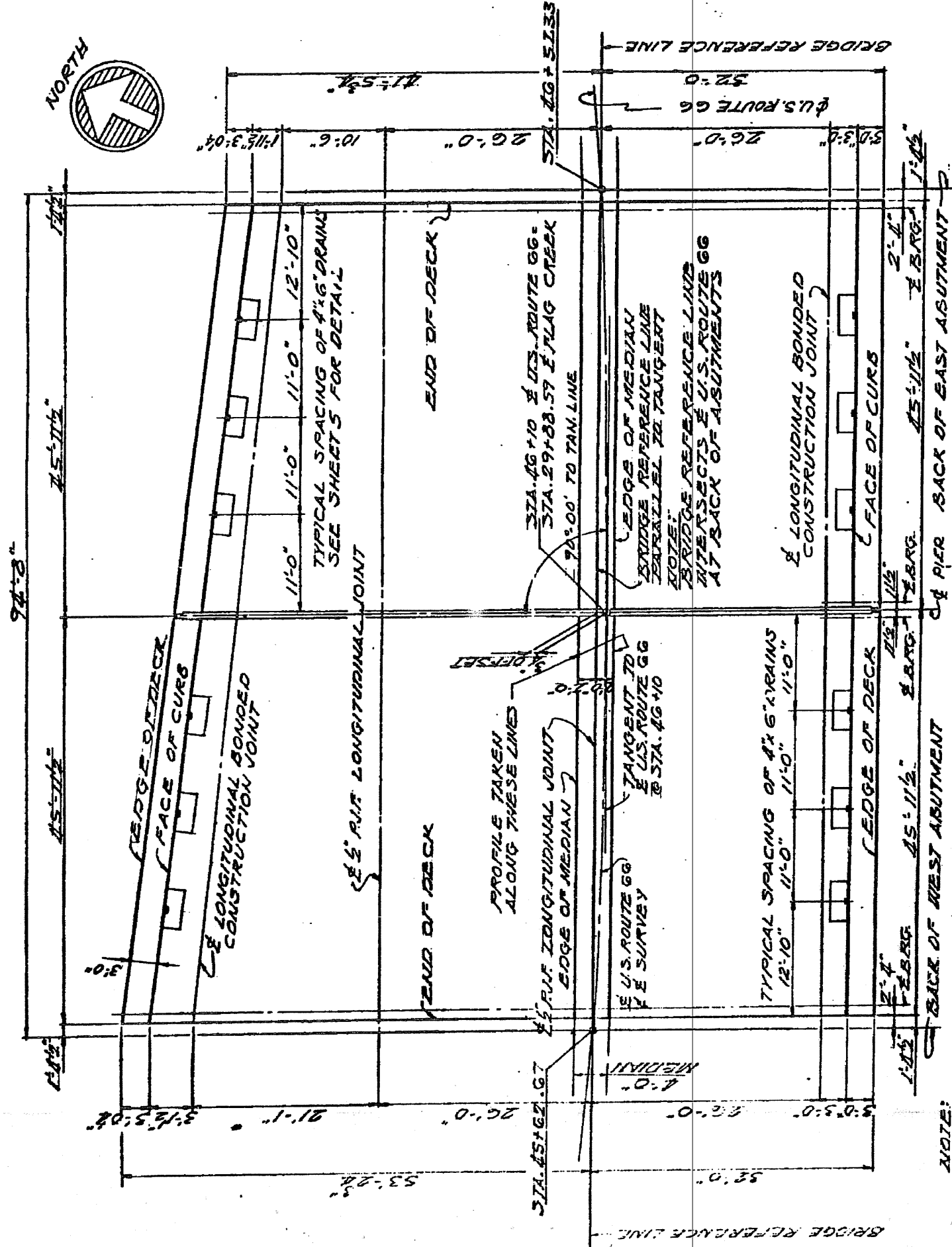
NOTE: TO BE CENTERED ON EXISTING & OF U.S. ROUTE 66 AT STATION 100+00.00. EXISTING STRUCTURE TO BE REMOVED BY CONTRACTOR.

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SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CUMYD	2092
REINFORCING CONCRETE	CUMYD	2092
REINFORCING CONCRETE - BARS	LBS	1450
REINFORCING CONCRETE - STEEL	LBS	1450
REINFORCING CONCRETE - METAL HANDRAIL	LBS	220
NAME PLATES	EACH	1
REINFORCING CONCRETE - PRESTRESSED CONCRETE PILES	CUMYD	128
REINFORCING CONCRETE PILES	CUMYD	483
REINFORCING CONCRETE PILES - UP TO 20"	CUMYD	483
REINFORCING CONCRETE PILES - 20" TO 24"	CUMYD	64
TEST PILES (CONCRETE)	CUMYD	2
SLOPE WALL	CUMYD	559
CLASS A EXCAVATION FOR STRUCTURES	CUMYD	110
CLASS B EXCAVATION FOR STRUCTURES	CUMYD	364
ROCK EXCAVATION FOR STRUCTURES	CUMYD	178
GRAVEL EXCAVATION	CUMYD	330
ROADWAY GRANULAR EMBANKMENT	CUMYD	72
REMOVAL OF EXISTING STRUCTURES	EACH	1
STORM SEWER, TYPE 2, CLAY SINKER PIPE, 12"	LINEAL FT	35
ROADWAY		
ITEM	UNIT	QUANTITY
BITUMINOUS CONCRETE SURFACE COURSE, SUBCLASS I-II	CUMYD	29
BITUMINOUS MATERIALS (PRIME COAT)	GALS	30
BORROW EXCAVATION	CUMYD	1772
BROKEN CONCRETE RUBBISH	CUMYD	456
COMPLETE SEEDING	ACRES	13
CORRUGATED METAL PIPE, 60"	LINEAL FT	254
EARTH EXCAVATION	CUMYD	357
EMULSIFIED ASPHALT	GALS	100
ERECTING STEEL PLATE BEAM GUARD RAIL	LINEAL FT	125
FERTILIZER MATERIALS	TONS	0.04
GRAVEL OR CRUSHED STONE SHOULDERS	TONS	10
GUIDE POSTS	EACH	32
PAVEMENT FABRIC	CUMYD	2448
PAVEMENT REMOVAL	CUMYD	222
PORTLAND CEMENT CONCRETE MEDIAN, TYPE I	CUMYD	500
PORTLAND CEMENT CONCRETE PAVEMENT (10")	CUMYD	2448
PORTLAND CEMENT CONCRETE PAVEMENT (9")	CUMYD	1018
PORTLAND CEMENT CONCRETE PAVEMENT (10 1/2")	CUMYD	214
TEMPORARY SEEDING	ACRES	10
REMOVING AND RELAYING CULVERT PIPE IN B.C.C.M.P.	LINEAL FT	76
STEEL PLATE BEAM GUARD RAIL	LINEAL FT	450
STEEL PLATE BEAM GUARD RAIL REMOVAL	LINEAL FT	450
STRAW FOR ASPHALT-COATED MULCH	TONS	12
SUBBASE - GRANULAR MATERIAL TYPE A	TONS	1012

* THIS ITEM INCLUDES 6 CUMYD FOR STORM SEWER EXCAVATION.
** THIS ITEM INCLUDES 25 CUMYD FOR STORM SEWER EXCAVATION.
*** THIS ITEM INCLUDES 25 CUMYD FOR APPROACH SLABS.



NOTE: SOUTH EDGE OF DECK, FACE OF CURB, BOUNDED CONSTRUCTION JOINT, FACE OF MEDIAN AND LONGITUDINAL JOINT ARE PARALLEL TO BRIDGE REFERENCE LINE. NORTH EDGE OF DECK AND FACE OF CURB ARE PARALLEL TO 1" BEAM CG, SEE SHEETS.

BRIDGE LAYOUT
SCALE 1"=10'-0"

GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT EXCEPT FOR HANDRAILS AND PRECAST P-BEAMS.
HANDRAILS AND PRECAST P-BEAMS SHALL BE USED IN HANDRAIL PORTION OF BRIDGES AS SHOWN FOR CONCRETE IN PRECAST P-BEAMS SEE SPECIAL PROVISIONS.
ALL CONCRETE SHALL BE CAST IN PLACE EXCEPT FOR THE PRECAST PRESTRESSED CONCRETE P-BEAMS.
THE CONCRETE FLOOR SLAB FOR EACH SPAN SHALL BE PLACED IN ONE CONTINUOUS OPERATION BETWEEN CONSTRUCTION JOINTS SHOWN AND SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE SIX OF THE STANDARD SPECIFICATIONS.
ALL STEEL SHALL BE STRUCTURAL STEEL EXCEPT AS OTHERWISE NOTED.
BRONZE EXPANSION PLATES SHALL CONFORM TO A.S.T.M. SPECIFICATION B100, ALLOY 1, AND SHALL HAVE GRAPHITE INSERTS INSTALLED IN THE SLIDING SURFACE AS MANUFACTURED BY HERRMAN BROS. INC., BOSTON, MASS., OR EQUAL.
ALL STEEL BEARING PLATES, GRAPHITE BRONZE EXPANSION PLATES, LEAD PLATES AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE SIX OF THE STANDARD SPECIFICATION AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL. ESTIMATED WEIGHT - 5,140 LBS.
STEEL EXPANSION DEVICES AT THE PIER AND ABUTMENTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE SIX OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL. ESTIMATED WEIGHT - 9,970 LBS.
LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT IN ACCORDANCE WITH SECTION 66 OF THE STANDARD SPECIFICATIONS EXCEPT AS OTHERWISE SPECIFIED ON THE PLANS. ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR.
THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE IN EACH ABUTMENT LOCATION AT EACH ABUTMENT AS DIRECTED BY THE ENGINEER. BEFORE ORDERING THE REMAINDER OF THE CONCRETE PILES.

INDEX OF SHEETS
TITLE

- 1 TITLE
- 2 GENERAL PLAN, ELEVATION
- 3 INDEX, QUANTITIES, NAME PLATES,
- 4 GENERAL NOTES AND BRIDGE LAYOUT
- 5 PROFILES AND BORINGS
- 6 DECK REINFORCEMENT PLAN
- 7 DECK CROSS SECTION AND DIAPHRAGM DETAILS
- 8 DETAILS OF PRECAST P-BEAMS
- 9 CONCRETE P-BEAMS
- 10 FRAMING PLAN, BEARING DETAILS
- 11 AND EXPANSION DEVICE
- 12 HANDRAIL DETAILS
- 13 EAST AND WEST ABUTMENTS AND WINGWALLS
- 14 EAST AND WEST ABUTMENTS AND WINGWALLS
- 15 PIER
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- 25 STANDARD 1972 R, 1987 S AND 2123
- 26 STANDARD 2113, 1768 R
- 27 STANDARD 2122

STATION 46+10
BUILT 195 BY
STATE OF ILLINOIS
F.A. RT 98 SEC. 207-010-2B
F.A. PROJ. F-195(4)
LOADING H20-31G

SEE STATE OF ILLINOIS STD. 2113

NAME PLATES EACH 1

LETTERING FOR NAME PLATES

INDEX, QUANTITIES, NAME PLATES,
GENERAL NOTES AND BRIDGE LAYOUT
U.S. ROUTE 66
OVER
FLAG CREEK

F.A. ROUTE 98 SECTION 207-010-2B
COOK COUNTY
STATION 46+10

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE 587-3
CHICAGO, ILLINOIS

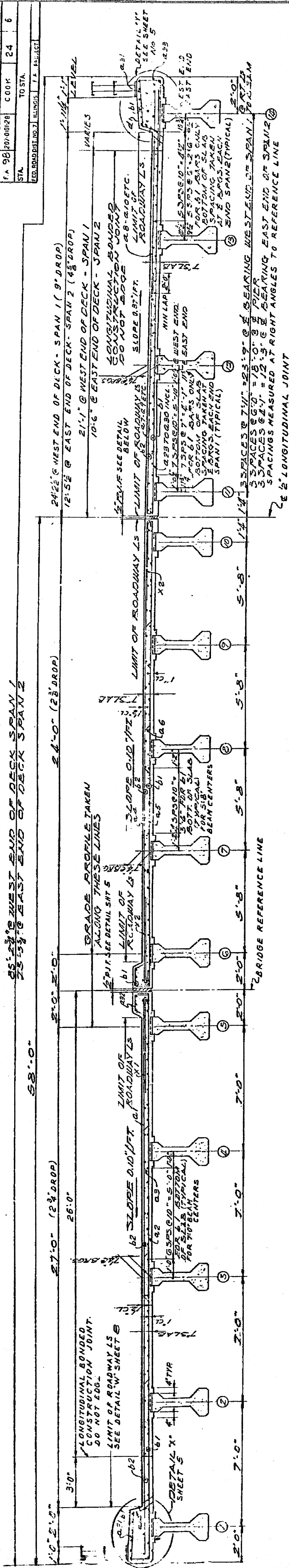
7

4 DRIP NOTCH -
FULL LENGTH
OF BRIDGE

ITEM	QUANTITY	UNIT	AMOUNT
CLASS "X" CONCRETE	209.2	CUYD	209.2
REINFORCEMENT BARS	4.53	TONS	4.53
KEYTAK MEMORAIL	1.00	LF	20.5
STRUCTURAL STEEL	1.53	TONS	4.50
PRECAST PRESTRESSED CONC. T-BEAM	1.00	LF	1.00

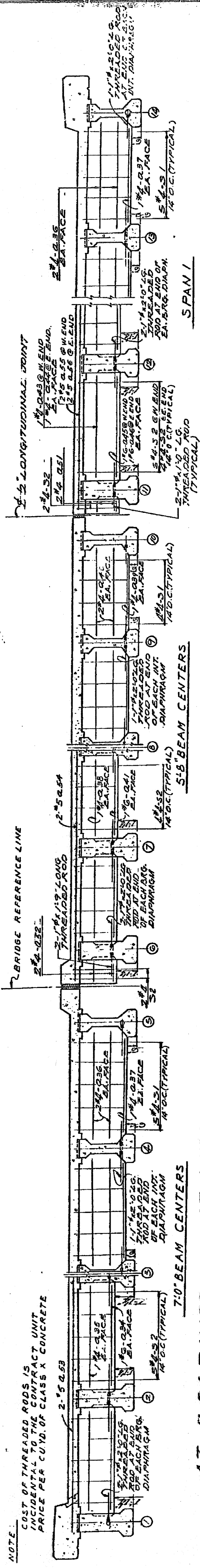
DECK REINFORCEMENT PLAN
U.S. ROUTE 99
OVER
FLAG CREEK
F.A. ROUTE 98 SECTION 29-14-24
COOK COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 98	207-00128	COOK	24	6
STA. TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS	F.A. PROJECT		



TYPICAL CROSS SECTION
SCALE 3/8"=1'-0"

SCALE 3/8" = 1'-0"



7'0" BEAM CENTERS

AZ BEARINGS

A7 INTERIORS

ATB

A7-11

210A-1

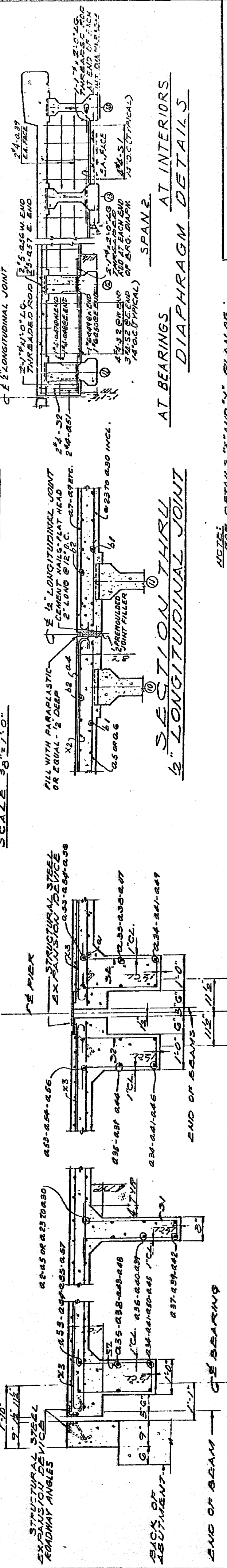
ABILENE

AT THE COURT OF THE DISTRICT OF COLUMBIA

TYPICAL DIAPHRAGM DETAILS
 FOR DIAPHRAGM LOCATION SEE SHEETS NO. 7 & 8

ATTENTION SEE SHEETS NO. 7 & 8

SCALE 3/8" = 1'-0"



END OF BEAM — G² BEARING

CHANGES

AT ABUTMENTS
AT INTERIORS
AT PIER
BEARINGS

LITERICAL DIAGRAM SECTION

SCALE 34"=1'-0"

SECTION ③ THRU
1/2" LONGITUDINAL JOINT

AT BEARING:

AT INTERIORS

DIAPHRAGM DETAILS

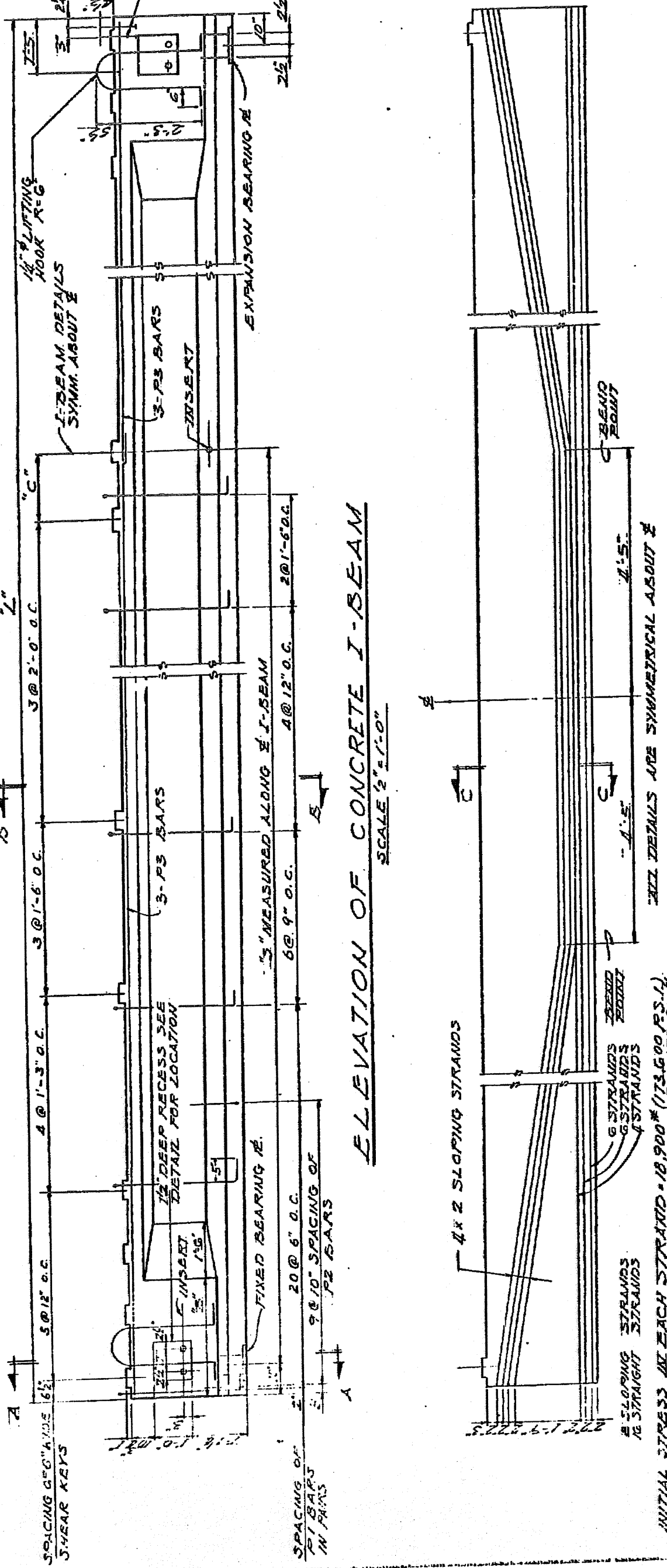
NOTES:
FOR DETAILS "X" AND "Y" PLAN OF
CRAINS FILEL DETAIL AND SECTION
THRU MEDIAN STRIP SEE SHEET NO. 5.
FOR LOCATION OF DIAPHRAGMS SEE
"BEE" BEAMS SFG AND BEAMS NO. 8.
SEE FRAMING PLAN SHEET NO. 8.

DECK CROSS SECTIONS AND DIAPHRAGM DETAILS
U.S. ROUTE 66

F.A. ROUTE 98 SECTION 207-CIO-2E
COOK COUNTY

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS

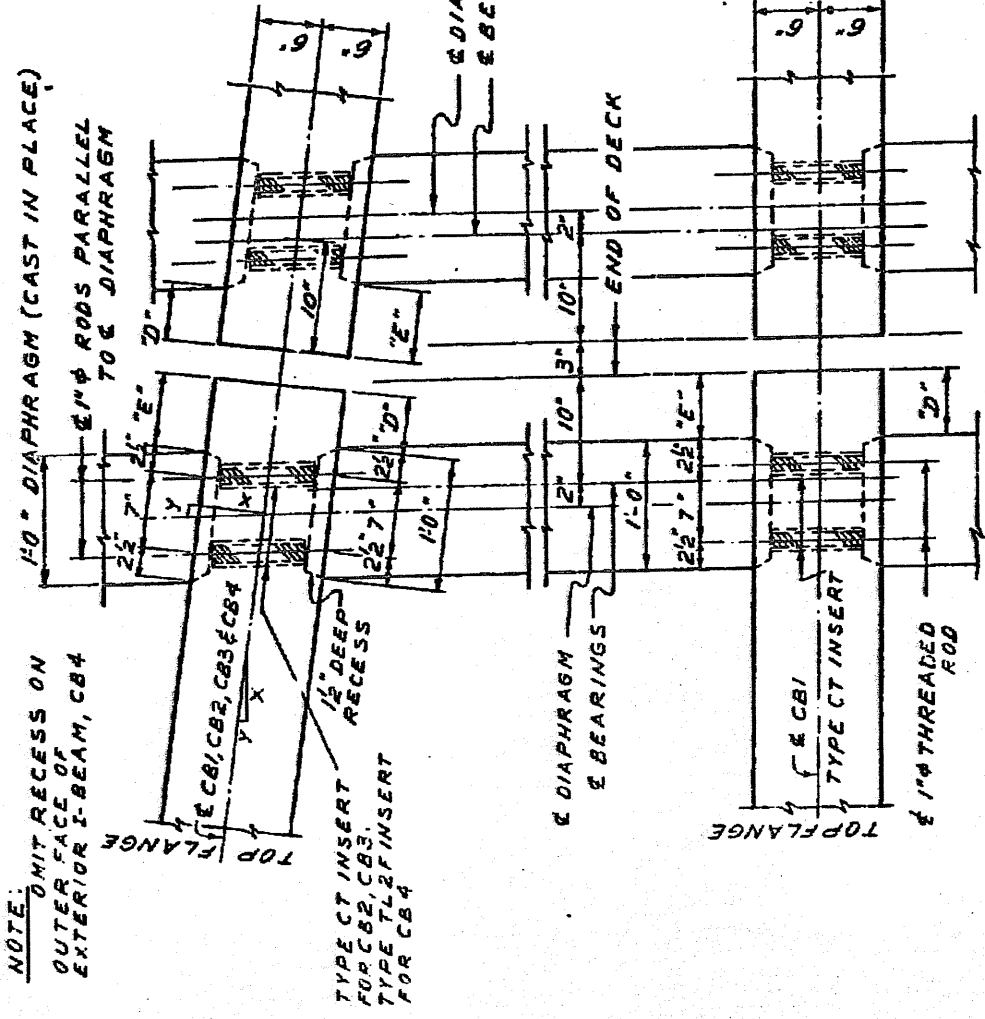
DATE	SECTION	COUNTY	NO.	SHEET NO.
10-10-56	207-01028	COOK	24	7
10-10-56	207-01028	COOK	24	7



ELEVATION OF CONCRETE I-BEAM
SCALE 3/8" = 1'-0"

DETAILS OF PRESTRESSING STEEL FOR CONCRETE I-BEAMS

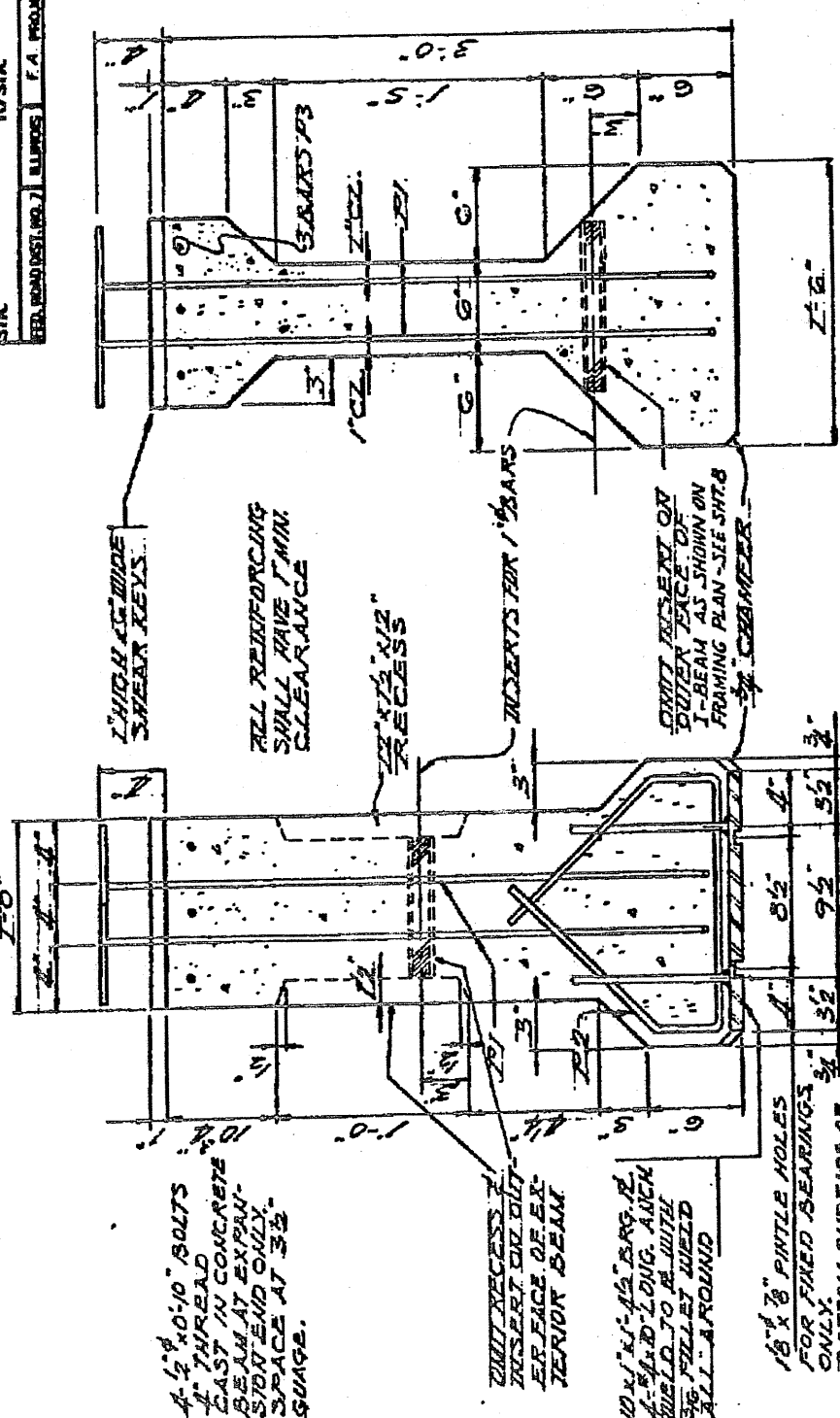
INITIAL STRESS IN EACH STRAND 10,000 PSI (13,600 PSI)
TOTAL INITIAL PRESTRESSING FORCE 453,000 LBS



PLAN SHOWING REBAR LOCATION AND INSERT ALIGNMENT

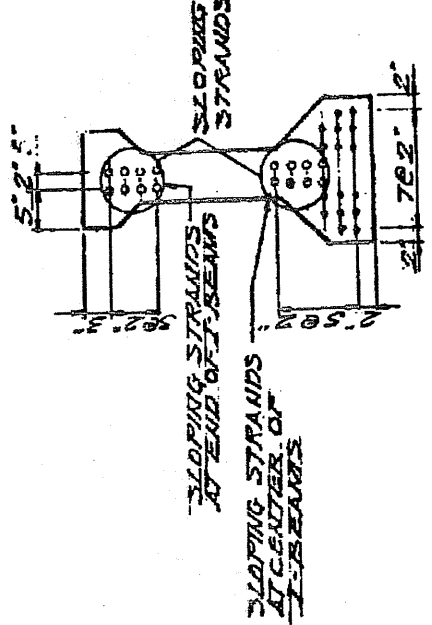
36" CONCRETE I-BEAM SCHEDULE

I-BEAM NO.	L	S	B	C	D	E	X	Y
CB1	45'0"	22'0"	24'0"	19'0"	6"	6"	12"	0"
CB2	45'9"	22'0"	24'0"	19'0"	5'3"	6'4"	12"	5"
CB3	45'10"	22'14"	24'14"	19'14"	5'2"	6'5"	12"	1"
CB4	45'0"	22'5"	24'5"	19'5"	5'4"	6'3"	12"	1 1/2"



SECTION A-A
SCALE 3/8" = 1'-0"

SECTION B-B



SECTION C-C

INSERTS SCHEDULE FOR 1" Ø BAR

AT BEARING DIAPHRAGM
BEAM LINES 1 TO 14 INCL. - RICHMOND TYPE CT OR EQUAL
BEAM LINES 2 & 15 - RICHMOND TYPE TL2 F OR EQUAL
AT INTERIOR DIAPHRAGM
BEAM LINES 1.5, 6, 10, 11 & 14 - RICHMOND TYPE CT OR EQUAL
BEAM LINES 2 TO 4, 7 TO 9, 12 & 13 - RICHMOND TYPE TL2 F OR EQUAL

NOTES

PRECAST, PRESTRESSED CONCRETE I-BEAMS ARE DESIGNED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1958, AND THE CRITERIA FOR PRESTRESSED CONCRETE BRIDGES, 1954, OF THE BUREAU OF PUBLIC ROADS. PRESTRESSING STRANDS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) SPECIFICATION FOR PRESTRESSING STRANDS, LIFTING HOOPS, AND REINFORCING STEEL. PRESTRESSING STRANDS WHICH ARE CAST INTO THE PRECAST CONCRETE I-BEAMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LINEAL FOOT FOR FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS. PRESTRESSED CONCRETE I-BEAMS SHALL BE LIFTED ONLY BY THE LIFTING HOOPS PROVIDED IN THE TOP FLANGES AT THE ENDS OF THE BEAMS. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS FOR PRESTRESSING EQUIPMENT AND OPERATIONS, PRESTRESSING METHODS, AND OTHER REQUIREMENTS FOR THE PRECAST PRESTRESSED CONCRETE I-BEAMS. STEEL FOR LIFTING HOOPS SHALL BE DEFORMED BARS OF STRUCTURAL OR INTERMEDIATE GRADE BILLET STEEL.

BAR SCHEDULE

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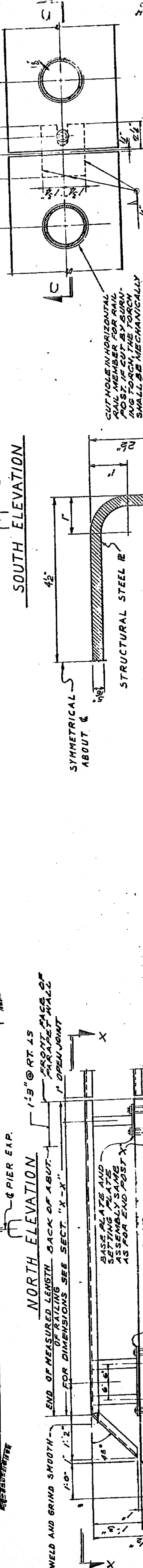
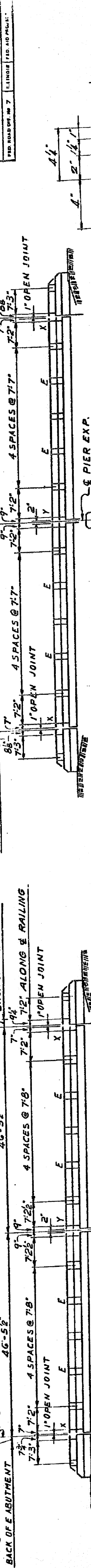
DETAILS OF PRECAST
PRESTRESSED CONCRETE I-BEAMS
U.S. ROUTE 66
FLAG CREEK
F.A. ROUTE 98 SECTION 207-010128
COOK COUNTY

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS

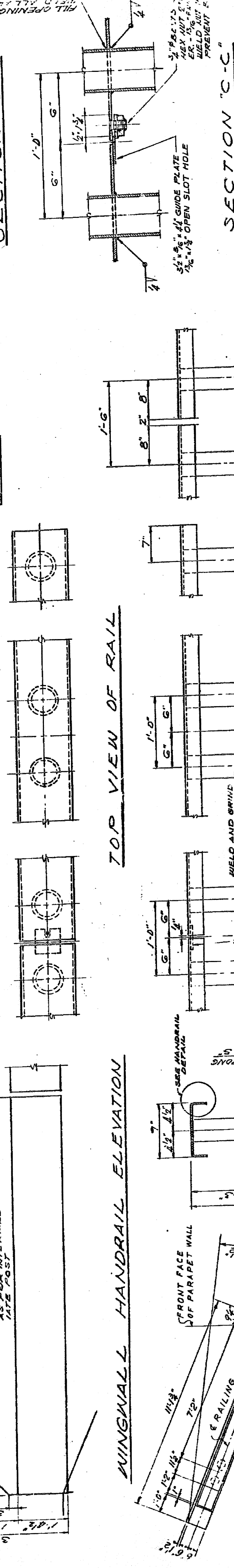
PROJECT NO.	SEC.	COUNTY	DATE
7-1-30	98	COOK	24
BY	DATE	BY	DATE
W. H. H. 7	10-1-30	W. H. H. 7	10-1-30

BACK OF W. ABUTMENT 13' FRONT FACE OF PARAPET WALL 46'-1" BACK OF E. ABUTMENT 46'-1"

13' @ RT. 15 FRONT FACE OF PARAPET WALL 46'-52" BACK OF W. ABUTMENT 13' @ RT. 15



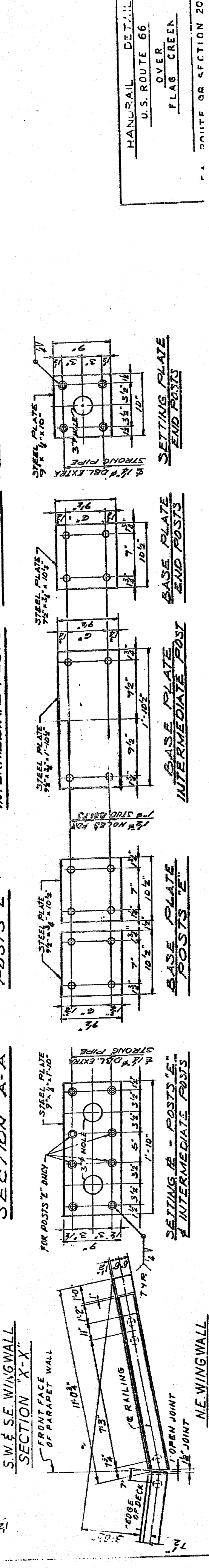
SECTION B-B



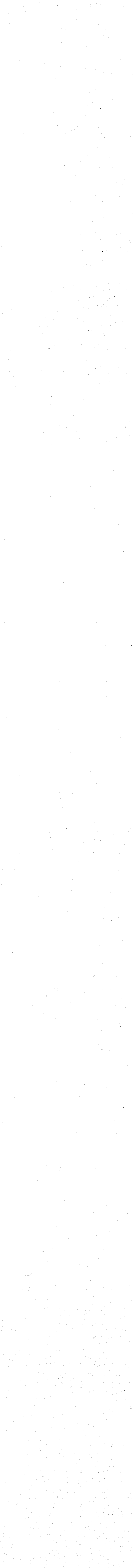
SECTION C-C

NOTES
RAIL SHALL BE FABRICATED AND ERECTED TO CON-
FORM TO THE FOLLOWING SPECIFICATIONS:
1. RAIL SHALL BE NORMAL TO GRADE.
2. WELDING OF RAIL POST TO HORIZONTAL MEMBER SHALL BE CONTINUOUS WELD AROUND.
3. RAIL POSTS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR RAIL POSTS.
4. RAIL POSTS SHALL BE GIVEN ONE COAT OF LEAD AND ZINC COATS OF ALUMINUM PAINT SPECIFICATIONS.
5. SHIM PLATES FOR RAIL POSTS: FURNISH 3" SHIM PLATES SHIM AND TWO 1/2" SHIMS AT 50% CR. POSITION ON SUPERSTRUCTURE AND ALL POSTS ON JUNG. FOR VERTICAL ADJUSTMENT OF POSTS. SIZE OF SHIM PLATES FOR POSTS AND 3/4" HOLES SHALL BE SAME AS FOR BASE PLATES.

SECTION A-A



SECTION X-X



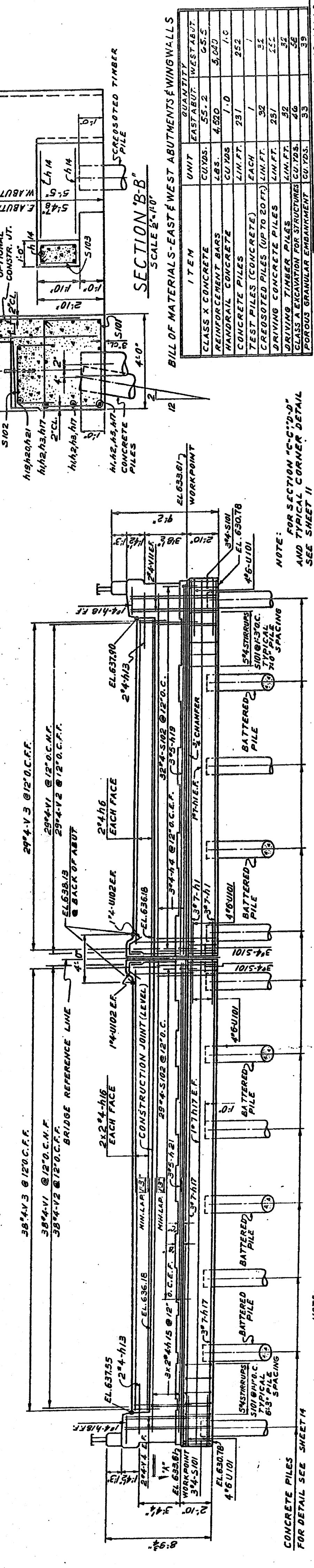
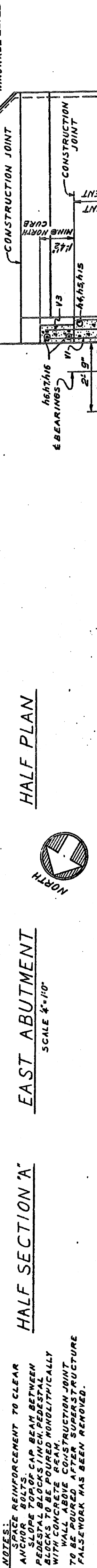
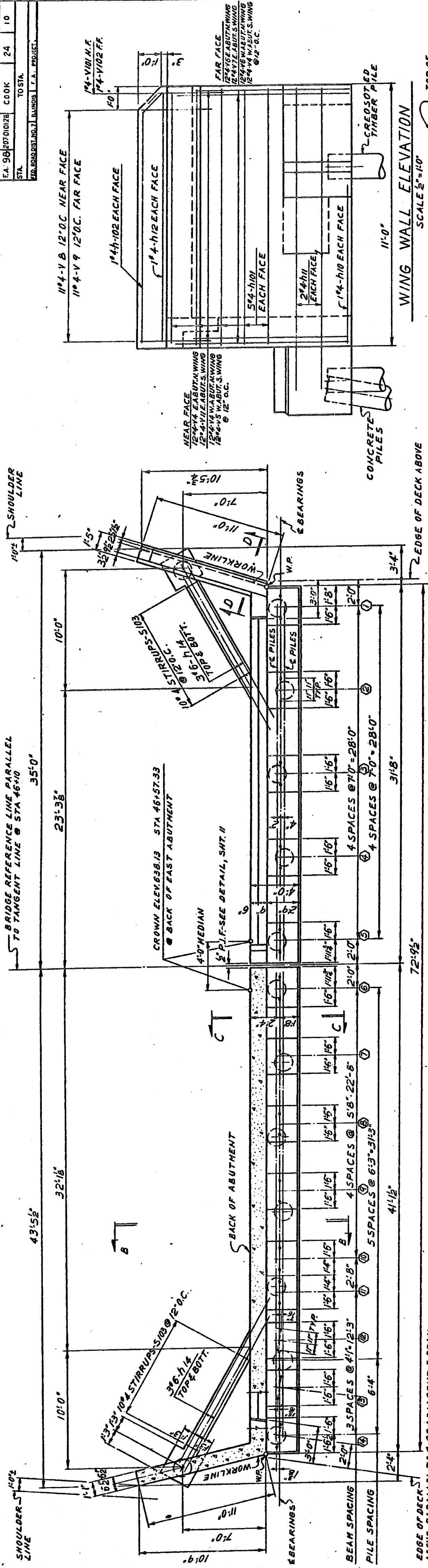
SECTION Y-Y



HANDRAIL DETAILS
OVER
FLAG GREEN
U.S. ROUTE 66

DATE OR SECTION 207

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
98	207-012B	COOK	24	10
STA.	TO STA.			
207-012A	207-012C			



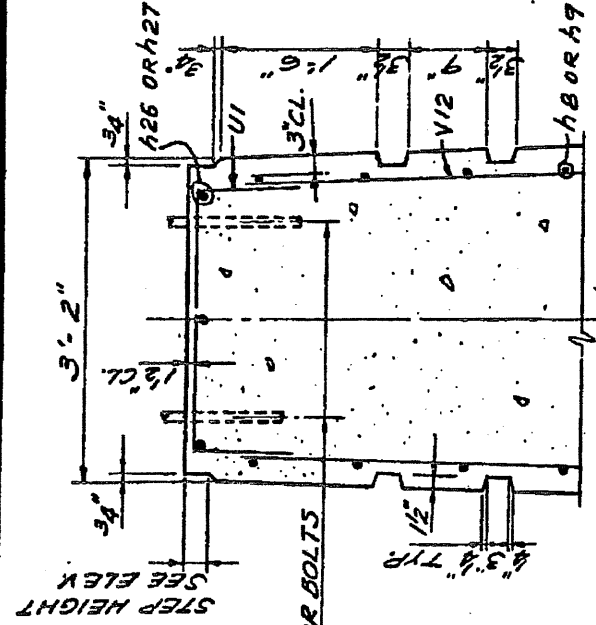
PILE SCHEDULE - EAST ABUT.		TABLE OF 8" x 8" DIMENSIONS - SEE SECT. "CC"	
TYPE	CONCRETE PILE CRESTED PILE	BEAM LOCATION	1 2 3 4 5 6 7 8 9 10 11 12 13 14
CAPACITY	35 TONS	8" DIMENSION	68" 78" 88" 98" 108" 118" 128" 138" 148" 158" 168" 178" 188" 198"
REQ. REQUIRED	(INCL. TEST PILE)	8" DIMENSION	48" 58" 68" 78" 88" 98" 108" 118" 128" 138" 148" 158" 168" 178" 188" 198"
ESTIMATED LENGTH	21 FEET	8" DIMENSION	48" 58" 68" 78" 88" 98" 108" 118" 128" 138" 148" 158" 168" 178" 188" 198"
MINIMUM PENETRATION SHALL BE 10 FEET			

BILL OF MATERIALS - EAST & WEST ABUTMENTS & WING WALLS	
ITEM	QUANTITY
CLASS X CONCRETE	CU YDS. 55.2
REINFORCEMENT BARS	LBS. 4,550
HANDRAIL CONCRETE	CU YDS. 1.0
CONCRETE PILES	LIN. FT. 231
TEST PILES (CONCRETE)	EACH 1
TEST PILES (UP TO 20 FT.)	LIN. FT. 32
CREOSOTED PILES	LIN. FT. 231
DRIVING CONCRETE PILES	LIN. FT. 231
DRIVING TIMBER PILES	LIN. FT. 231
CLASS A EXCAVATION FOR STRUCTURES	CU YDS. 40
POROUS GRANULAR EMBANKMENT	CU YDS. 33

EAST & WEST ABUTMENTS & WING WALLS	
U.S. ROUTE 66	OVER
FLAG CREEK	
F.A. ROUTE 98 SECTION 207-012B	
COOK COUNTY	
STATION 46+10	

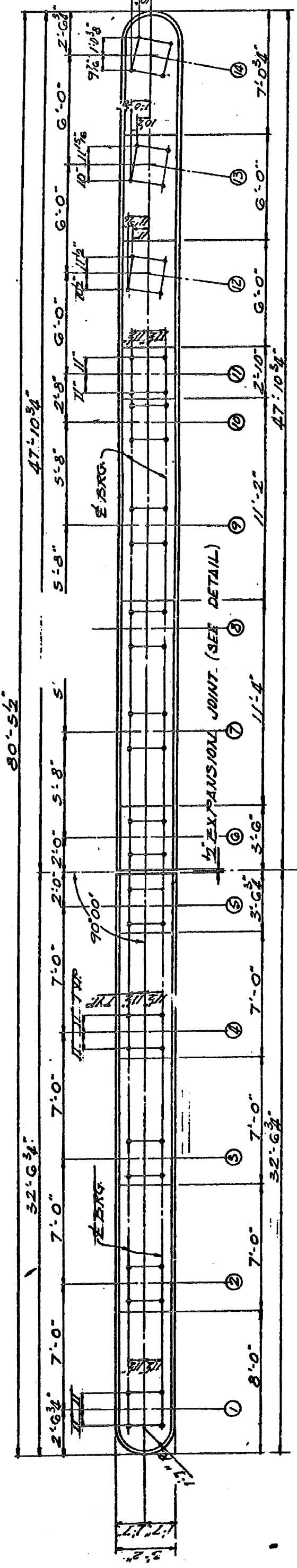
ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS
587-10

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 98	207 0101 28	COOK	24	12
STA.	ED. ROAD DIST. NO. 2	ALABAMA	TO STA.	



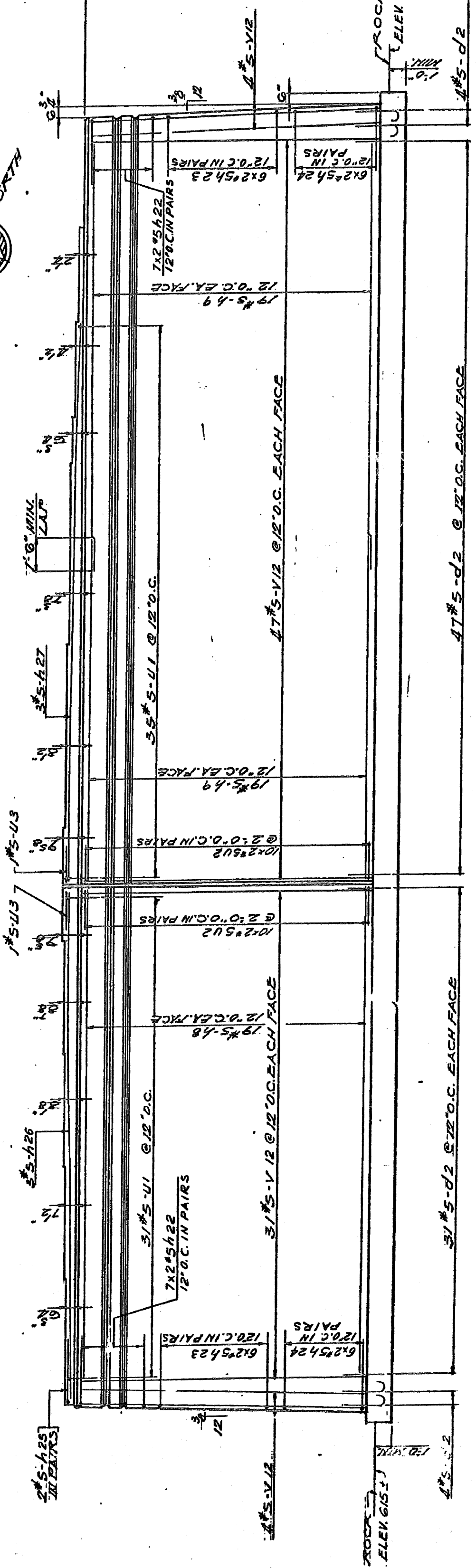
NOTE:
SPACE TOP EARS AS SHOWN
TO AVOID INTERFERENCE
WITH SINKING OF BOLTS
FOR ANCHOR BOLTS.

SECTION THRU TOP OF PIER



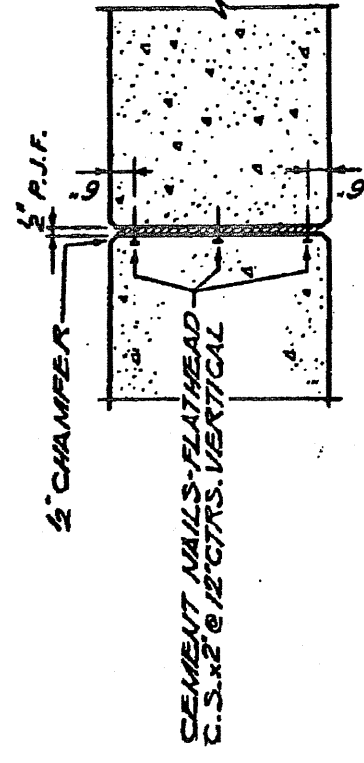
NOTE:
PEDESTAL STEPS TO BE POURED
MONOLITHICALLY WITH TOP BEAM.

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



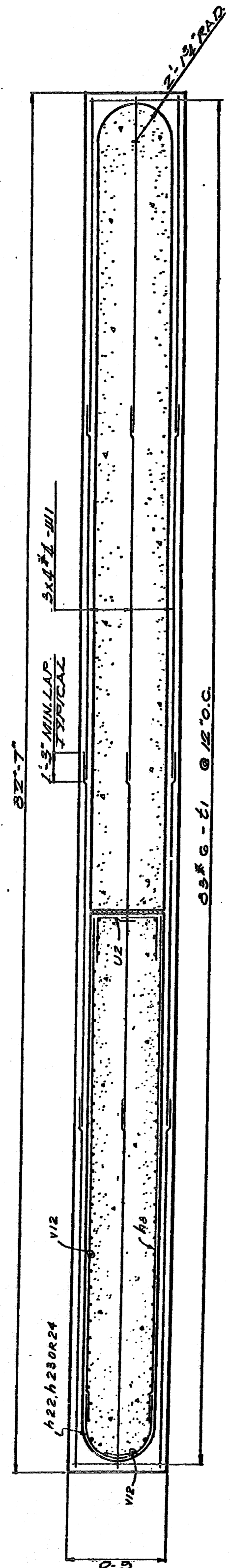
ELEVATION
SCALE 1/4"=1'-0"

END VIEW



DETAIL OF EXPANSION JOINT
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CUYD3	234.4
REINFORCEMENT BARS	LBS.	8750
CLASS B EXCAVATION FOR STRUCT.	CUYD3	289
ROCK EXCAVATION FOR STRUCT.	CUYD3	15



PART SECTION
FOOTING PLAN
SCALE 1/4"=1'-0"

PART PLAN

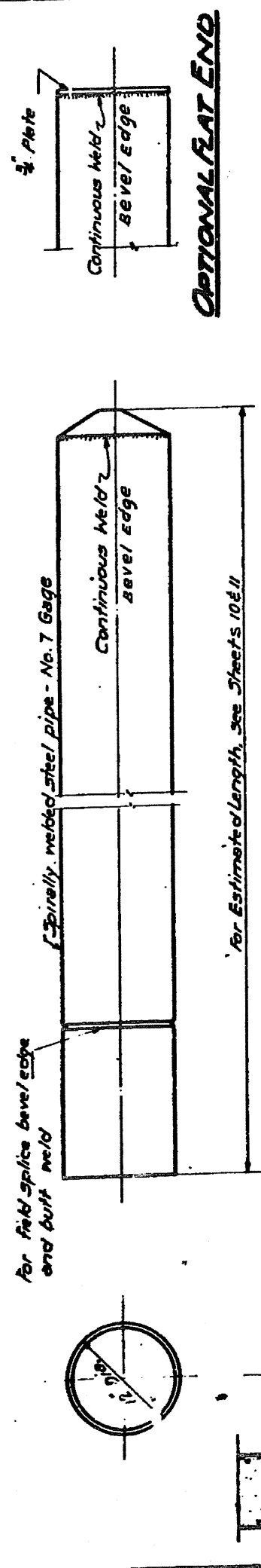
PIER
U.S. ROUTE 66
OVER
FLAG CREEK
F.A. ROUTE 98 SECTION 207-0101-28
COOK COUNTY
STATION 46+10

ALFRED BENESCH & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS
19 SOUTH WABASH AVENUE 587-12

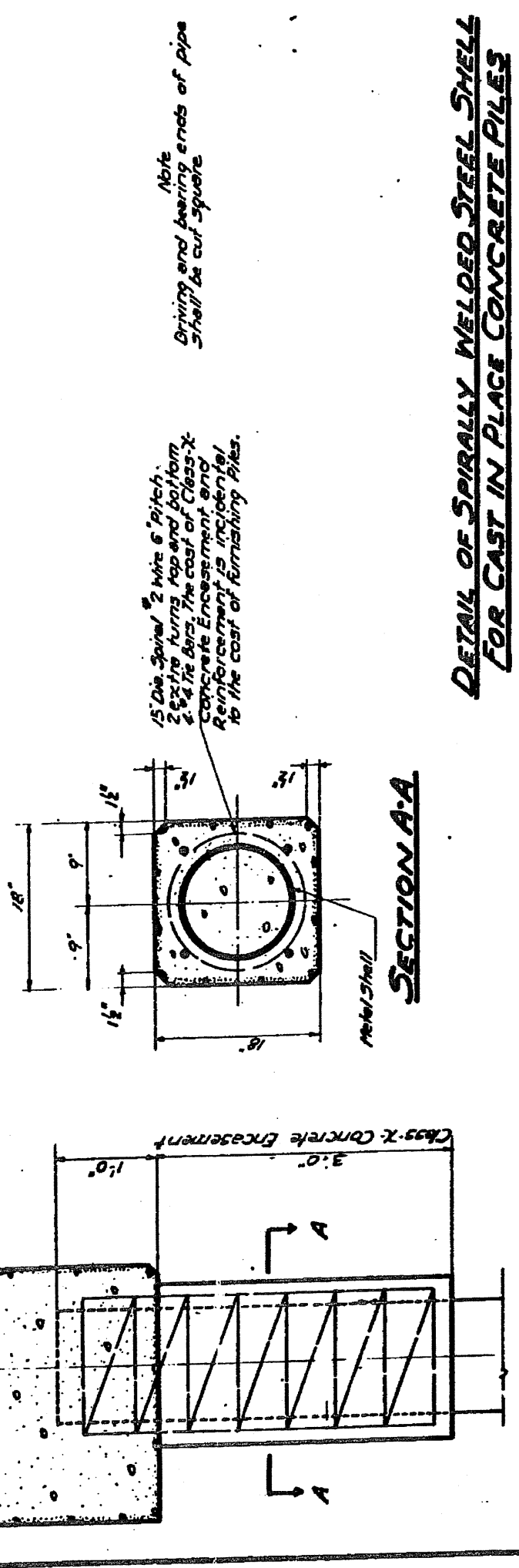
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
F.A. 98	207-0028	COOK	24
STA.	TO STA.		14
ED. ROAD DIST. NO. 2	ILLINOIS	C.A. PROJECT	

ABUTMENT PILES

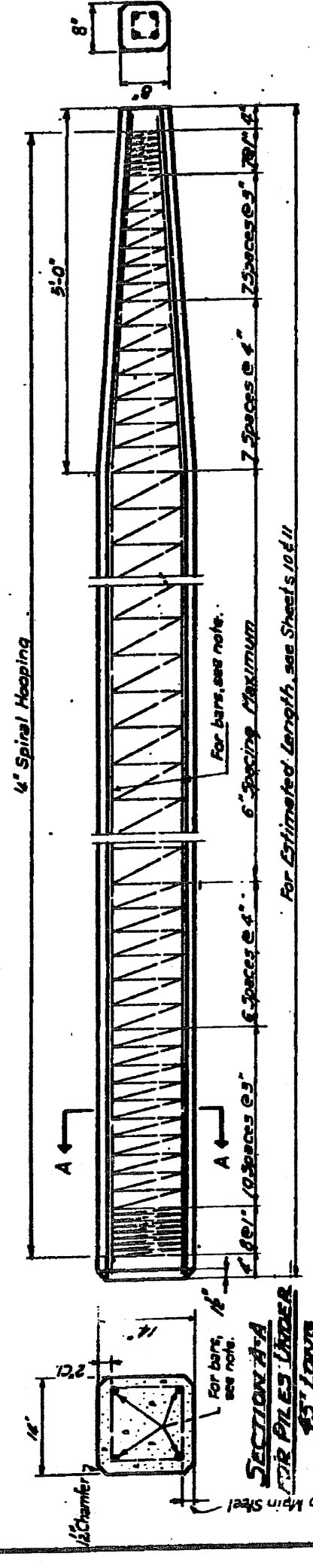
ALL TO BE USED AT THE ABUTMENTS SHALL BE ANY OF THE VARIOUS KINDS SHOWN BELOW



OPTIONAL FLAT END



DETAIL OF SPIRALLY WELDED STEEL SHELL FOR CAST IN PLACE CONCRETE PILES

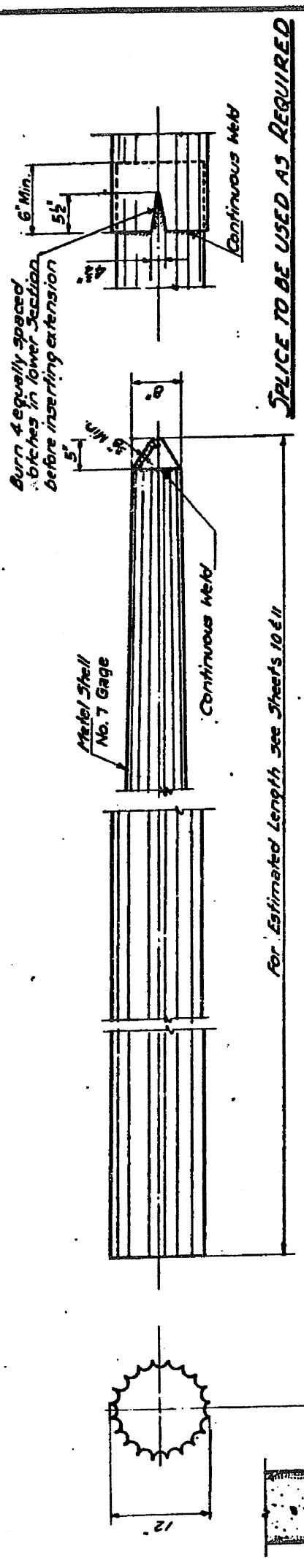


Note: For 12" Piles 45' long or more use 6" x 6" bars. 4" for the full length and 6" for the point of pile. For 12" Piles 45' long or more use 6" x 6" bars. 4" for the full length and 6" for the point of pile.

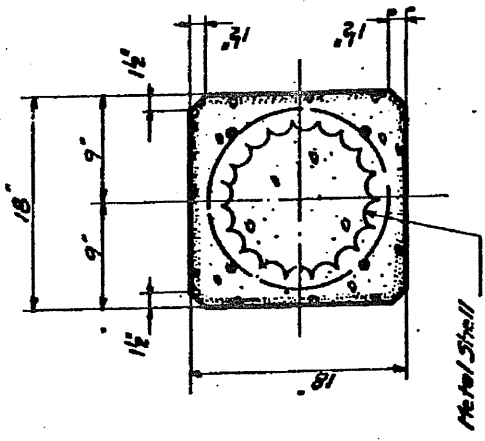
Note: For 12" Piles 45' long or more use 6" x 6" bars. 4" for the full length and 6" for the point of pile. For 12" Piles 45' long or more use 6" x 6" bars. 4" for the full length and 6" for the point of pile.

Note: Overall length of pile to be handled

DETAIL OF PRECAST CONCRETE PILES



1. Bar 1/4" x 1/4" x 12" Cylindrical Section Extension
2. Bar 1/4" x 1/4" x 12" Cylindrical Section Extension
3. Bar 1/4" x 1/4" x 12" Cylindrical Section Extension



DETAIL OF METAL SHELL FOR CAST IN PLACE CONCRETE PILES

ABUTMENT PILES	U.S. ROUTE 66
OVER	FLAG CREEK
F.A. ROUTE 98	SECTION 207-0101-28
COOK COUNTY	
STATION 46+10	

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE 587-14 CHICAGO, ILLINOIS

ROUTE NO.	SECTION	COUNTY	7' AL.	5' AL.	SHEET NO.
FA 98	207-28	COOK	24	15	
STA.		TO STA.			
B.P.P. REG. NO. 3	ILLINOIS				

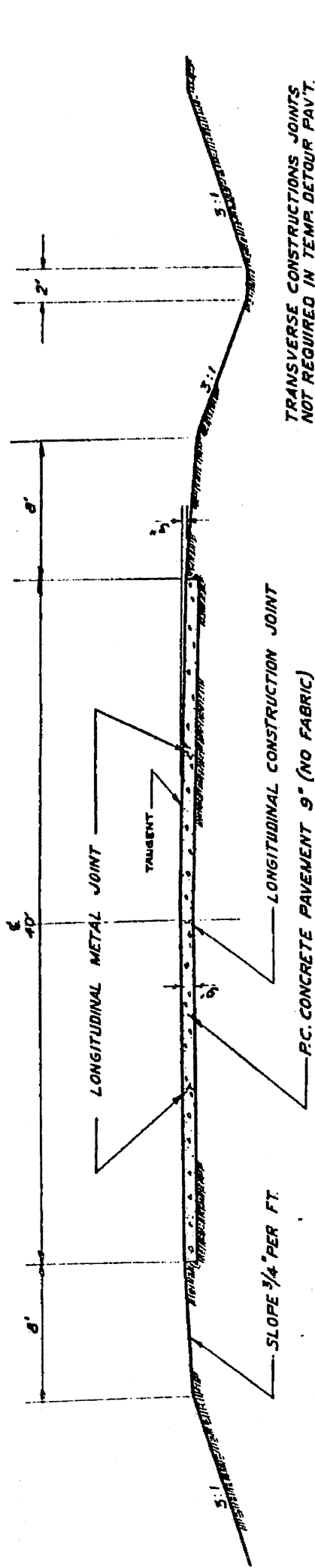
GENERAL NOTES:

1. MAINTENANCE OF TEMPORARY DETOUR IF SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE TEMPORARY DETOUR DURING ITS EXISTENCE. THE COST OF MAINTENANCE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE VARIOUS UNIT COST CONSTRUCTION ITEMS.
2. R.C. CONCRETE PAVEMENT (9") THE TEMPORARY DETOUR SURFACE WILL BE CONSTRUCTED OF R.C. CONCRETE PAVEMENT 9" THICK CONSTRUCTED IN ACCORDANCE WITH SECTION 43 OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING EXCEPTIONS:
a. PAVEMENT FABRIC WILL NOT BE REQUIRED
b. TRANSVERSE CONSTRUCTION JOINTS WILL NOT BE REQUIRED
3. CORRUGATED METAL PIPE 60 IN. THIS ITEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 43 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONTRACT UNIT PRICE SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE SALVAGED PIPE UPON DISCONTINUANCE OF THE TEMPORARY DETOUR. THE PIPE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
4. BARRICADES. THIS ITEM SHALL CONSIST OF CONSTRUCTING, ERECTING AND REMOVING A BARRICADE IN CONFORMANCE WITH STANDARD 172 R AT LOCATIONS SHOWN ON THE PLANS. THIS WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 7.14 OF THE STANDARD SPECIFICATIONS.
5. ERECTING STEEL PLATE BEAM GUARD RAIL STEEL PLATE BEAM GUARD RAIL SHOWN ON THE PLANS TO BE ERECTED ALONG F.A.I. ROUTE 03 WILL BE SALVAGED FROM THAT INSTALLED ALONG THE TEMPORARY DETOUR ROUTE 05.
6. REMOVAL OF TEMPORARY DETOUR. WHEN USE OF THE TEMPORARY DETOUR IS DISCONTINUED, THE CONTRACTOR SHALL REMOVE THE EMBANKMENTS, FILL THE CUTS AND RESHAPE THE DETOUR ROAD SITE, AS NEARLY AS PRACTICABLE, TO ITS ORIGINAL CONDITION. THE AREA DISTURBED BY THE CONSTRUCTION AND REMOVAL OF THE TEMPORARY DETOUR SHALL BE RECONSTRUCTED IN ACCORDANCE WITH SECTION 10 AND MULCHED IN ACCORDANCE WITH SECTION 10 OF THE STANDARD SPECIFICATIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVING EMBANKMENTS, FILLING CUTS OR RESHAPING THE TEMPORARY DETOUR ROAD SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS CONTRACT UNIT COST CONSTRUCTION ITEMS. PAYMENT FOR SEEDING AND MULCHING WILL BE MADE UNDER THE APPLICABLE CONTRACT UNIT PRICE ITEMS.
7. REMOVING AND RELAYING CULVERT PIPE 18" B.C.M.P. THE EXISTING 18" B.C.C.M.P. UNDER RAMP 71 TO THE LEFT OF STATION 43+30 IS TO BE REMOVED AND RELAYED AS SHOWN ON THE PLANS. THE ABOVE WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "REMOVING AND RELAYING CULVERT PIPE 18" B.C.C.M.P."
8. REMOVAL OF TREES AND SHRUBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TREES AND SHRUBS WITHIN THE LIMITS OF CONSTRUCTION. THE COST OF REMOVAL SHALL BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF EARTH EXCAVATION.
9. STEEL PLATE BEAM GUARD RAIL REMOVAL THIS WORK SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF STEEL PLATE BEAM GUARD RAIL INSTALLED ALONG THE TEMPORARY DETOUR ROUTE 05. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF THE SALVAGED GUARD RAIL MATERIAL. THE SALVAGED GUARD RAIL SHALL BE STORED WITHIN THE LIMITS OF THE RIGHT OF WAY AND BECOME THE PROPERTY OF THE STATE. THE QUANTITY OF GUARD RAIL TO BE ERECTED UNDER UNIT COST ITEM "ERECTING STEEL PLATE BEAM GUARD RAIL" WILL BE SECURED FROM THAT SALVAGED UNDER THIS REMOVAL ITEM.
10. BROWN CONCRETE RIP RAP. THIS ITEM SHALL CONSIST OF FURNISHING, TRANSPORTING AND PLACING BROWN CONCRETE RIP RAP IN ACCORDANCE WITH SECTION 42 OF THE STANDARD SPECIFICATIONS EXCEPT THAT (1) GROUT SHALL BE USED TO BIND THE RIP RAP AND (2) THE UNIT COST SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE RIP RAP. ALL OF THE ABOVE WORK SHALL BE PAID FOR UNDER ITEM "BROWN CONCRETE RIP RAP".
11. BITUMINOUS CONCRETE SURFACE COURSE. THIS ITEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 46 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE MATURE MAY BE PLACED BY HAND METHODS.
12. ONE SIGN CONFORMING TO STANDARD 212B SHALL BE ERECTED AT A LOCATION AS DIRECTED BY THE ENGINEER.

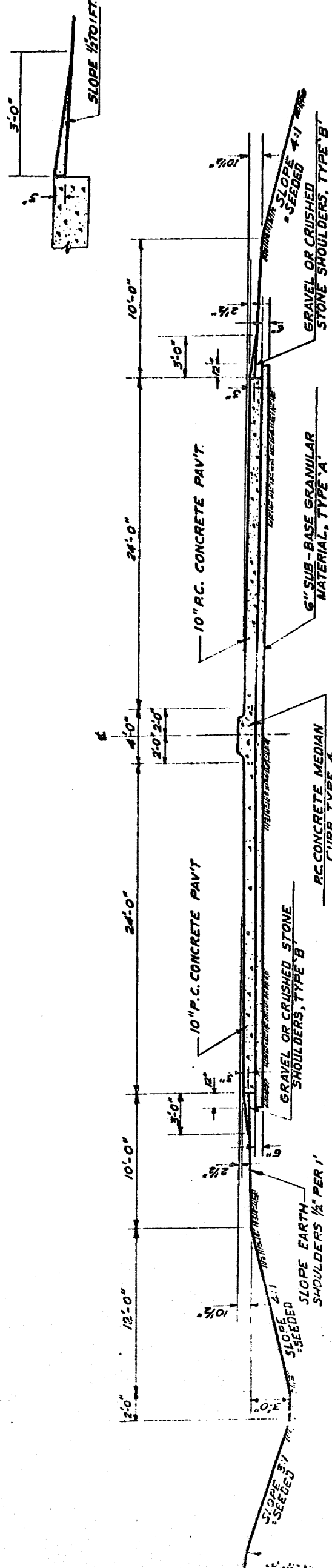
ROAD CLASSIFICATION 1795-T-70 (1975)

TYPICAL SECTIONS, DETAILS. GENERAL NOTES

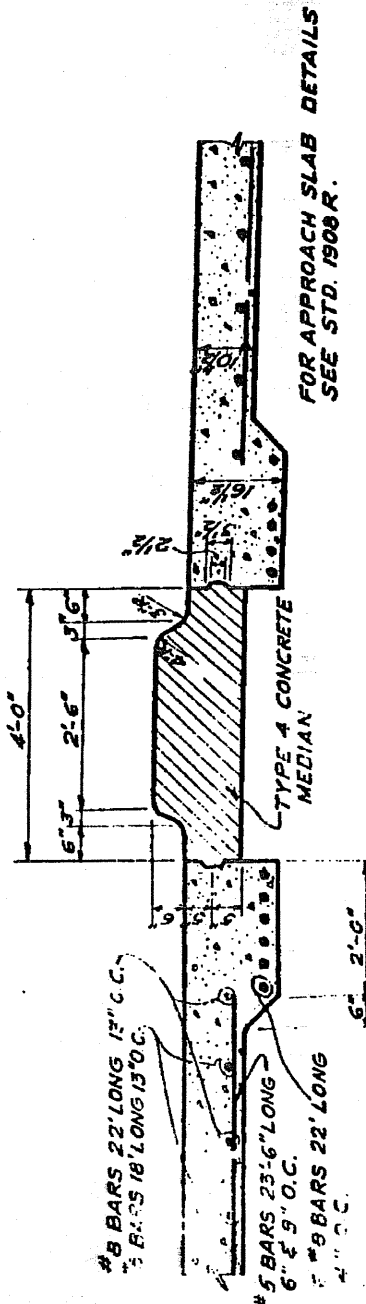
SCALE: AS SHOWN



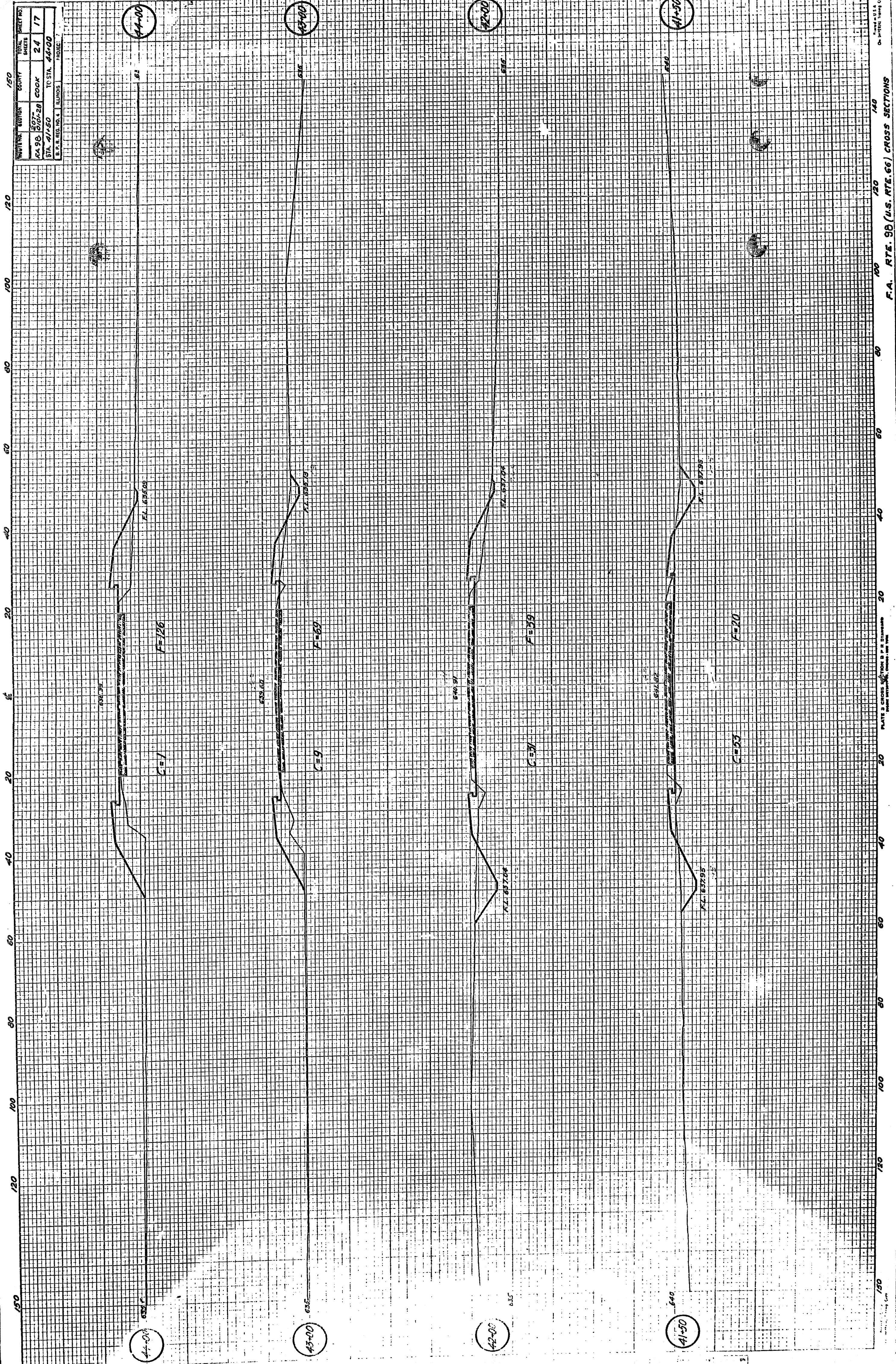
TYPICAL SECTION
TEMPORARY DETOUR
SCALE: 1" = 6'-0"



TYPICAL SECTION
F.A.I. ROUTE 03
SCALE: 1" = 6'-0"

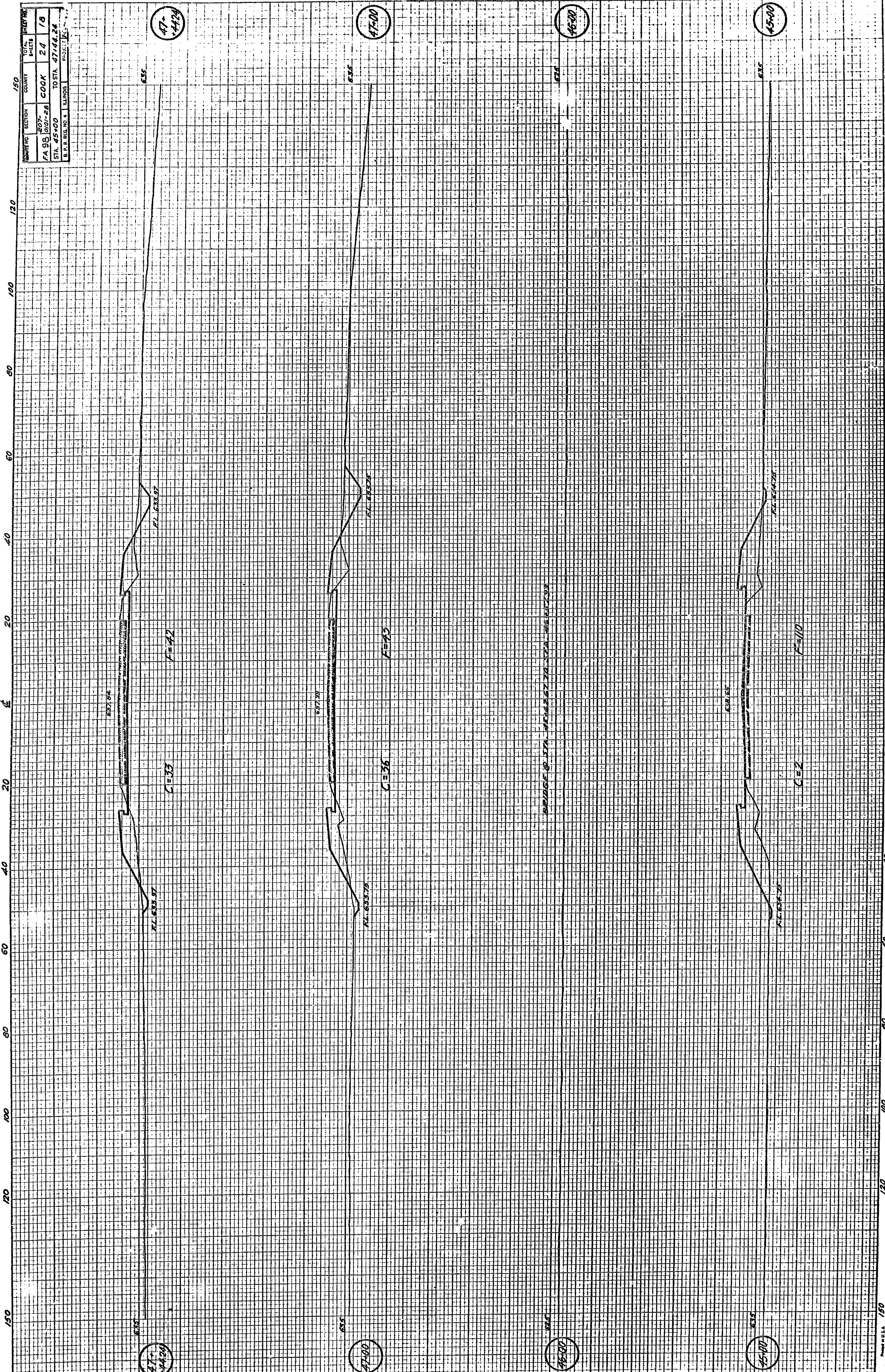


SECTIONAL VIEW OF CONCRETE APPROACH SLAB
ADJACENT TO MEDIAN CURB
SCALE: 1/2" = 1'-0"



PROJECT	SECTION	COUNTY	TOTAL SHEETS
RA 98	207	COOK	24
STA. 41+50	TC STA.	44+00	17
B. & R. REG. NO. 4			
PROJECT			

PLATE 3 CROSS SECTION B & R REG. NO. 4
F.A. RTE. 98 (U.S. RTE. 66) CROSS SECTIONS
Scale: 1" = 20' HORIZ. 1" = 5' VERT.
Drawn: [Signature]
Checked: [Signature]
Date: [Date]



SECTION	COUNTY	TOTAL SHEETS
FA 98	COOK	24
STA. 45+00	TO STA. 47+44.24	18
B.P.R. NO. 4	ILLINOIS	18

47-00
44-00

47-00
44-00

45-00
44-00

45-00
44-00

NO.	DATE
1	
2	
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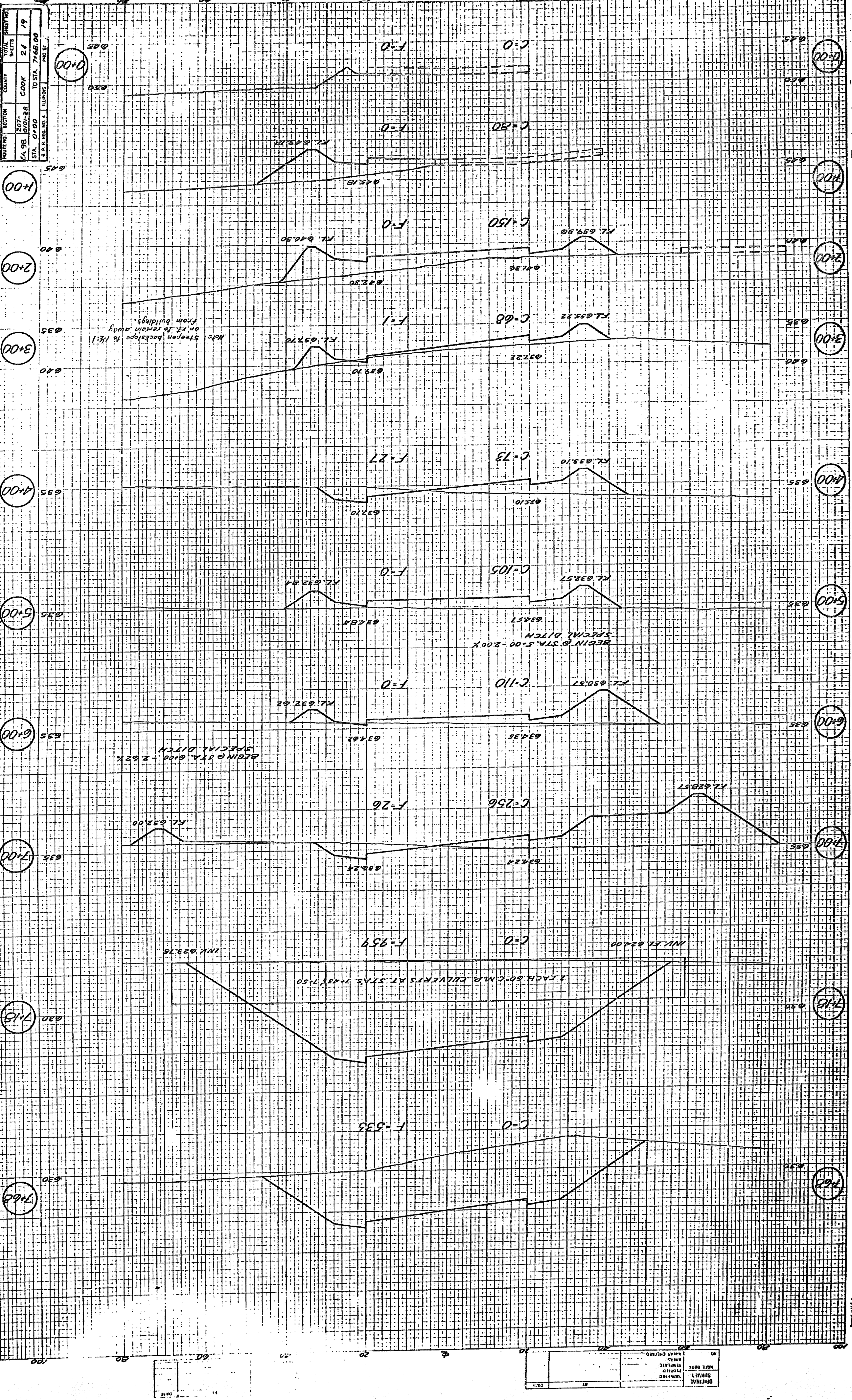
NO.	DATE
1	
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3	
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10	

150 120 100 80 60 40 20 0 20 40 60 80 100 120 150

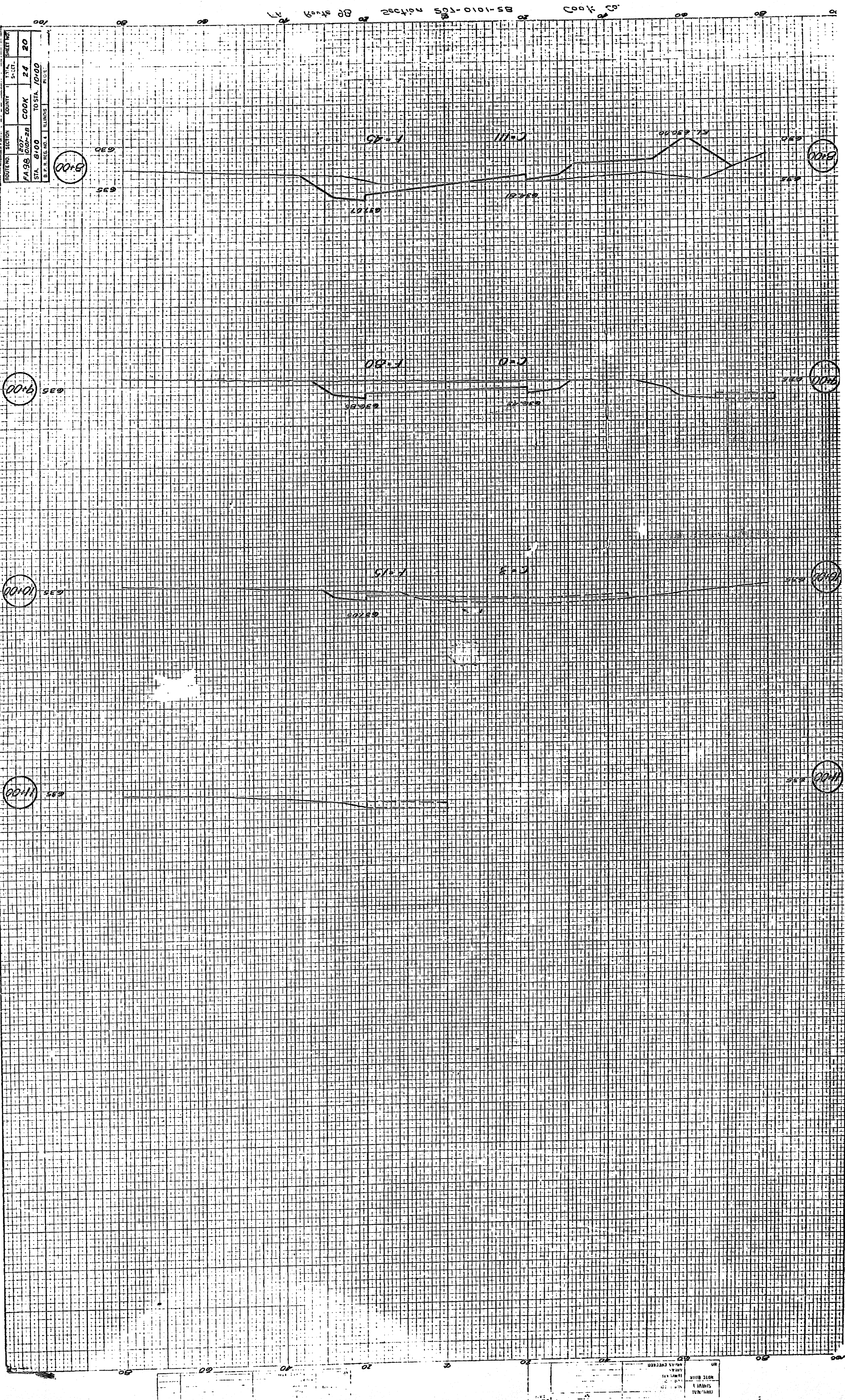
PLATE 3 CROSS SECTION B.P.R. STATION 45+00 TO 47+44.24

F.A. ROUTE 98 (U.S. RTE. 66) CROSS SECTIONS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
207	207-28	COOK	24
STA. 0+00	TO STA. 7+68.00		
DATE	NO. 1	ILLINOIS	NO. 1



100' = 1" HORIZ. SCALE
10' = 1" VERT. SCALE

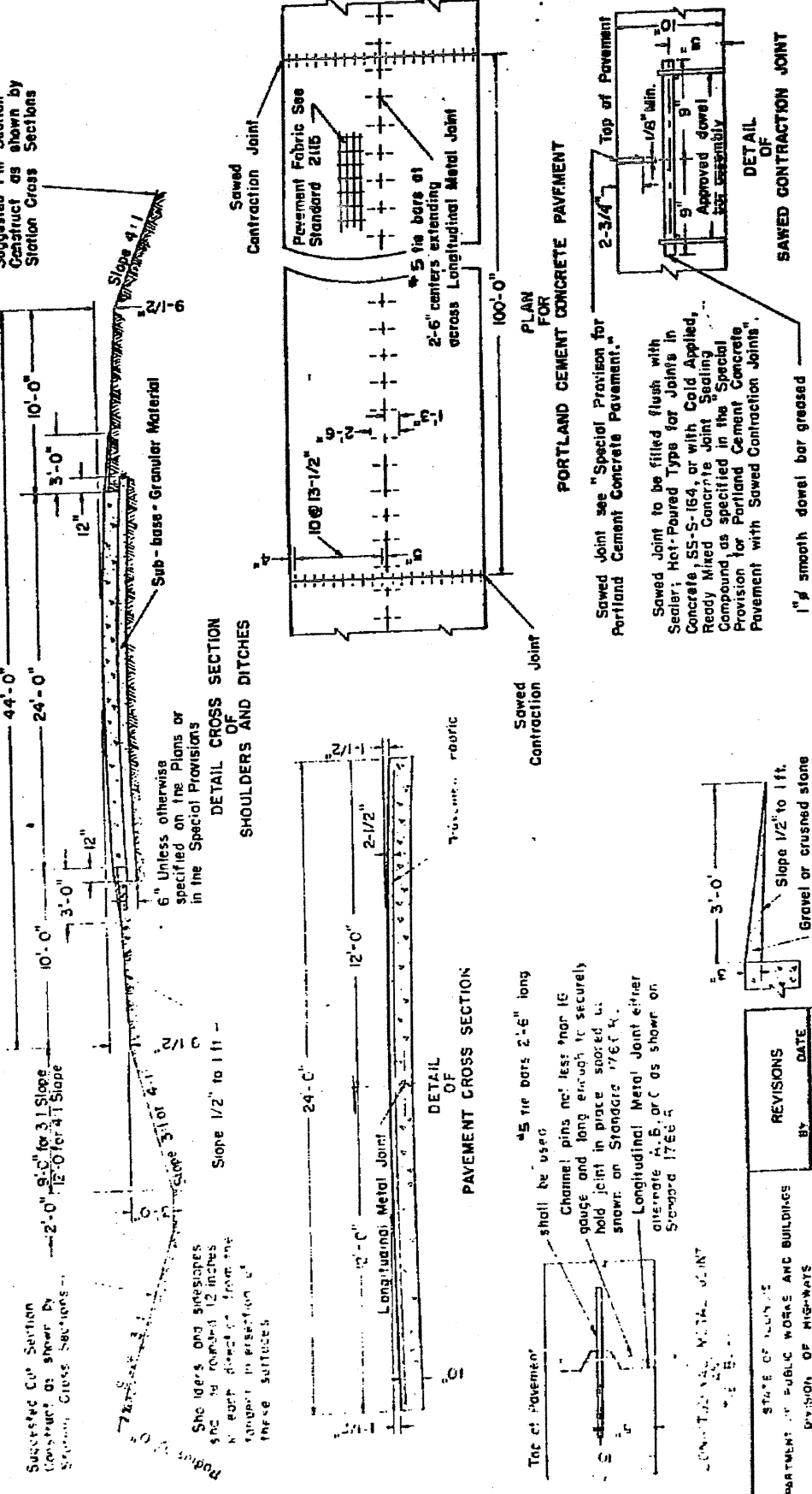


ROUTE NO.	SECTION	COUNTY	TYP.	S. L.	SHEET NO.
14	207	COOK	24	20	
14.98	207-28	COOK	24	20	
STA. 8100	TO STA. 10100				
B. P. R. REG. NO. 4	ILLINOIS				

Section 207-28 Cook 14

DATE	10/10/00	BY	14
TIME	10:00	BY	14
DATE	10/10/00	BY	14
TIME	10:00	BY	14

STANDARD DESIGN FOR FLAGMAN TRAFFIC CONTROL SIGN



Signs may be constructed with a sho.1 handle or a long staff which rests on the ground.

Signs may be constructed with a steel frame or a long staff which rests on the ground.

The material for the sign shall be 1/4" Exterior-Grade A-A Plywood or Exterior D.F.P.A-2 sides sound.

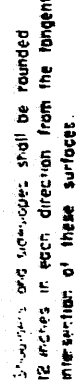
These signs shall be furnished by the Contractor and shall be used by the flagmen in lieu of red flags or other signaling devices.

The cost of furnishing and maintaining the signs will be considered incidental to the contract and no additional compensation will be allowed.

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BLDGS. DIVISION OF HIGHWAYS		REVISONS BY DATE
PASSED	<u>April 10</u>	1934
ENGINEER OF ROAD PLANS AND CONTRACTS		
APPROVED	<u>April 12</u>	1934
ENGINEER OF HIGHWAY		

2000 400 800

STANDARD DESIGN FOR



NOTE: Details of pavement to conform to Standard for 22ft. or 24ft. Pavement except that the crown shall be omitted.

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	REVIEWS
PASSED: <u>October 22, 1954</u>	BY
<u>W. J. O'Neil</u>	DATE
ENGINEER OF ROADWAYS AND CONTRACTS	
APPROVED: <u>October 22, 1954</u>	

DETAIL
OF
3 FT. GRAVEL OR
CRUSHED STONE SHOULDERS