

STATE OF ILLINOIS
CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

NORTHWEST ROUTE SUPERHIGHWAY

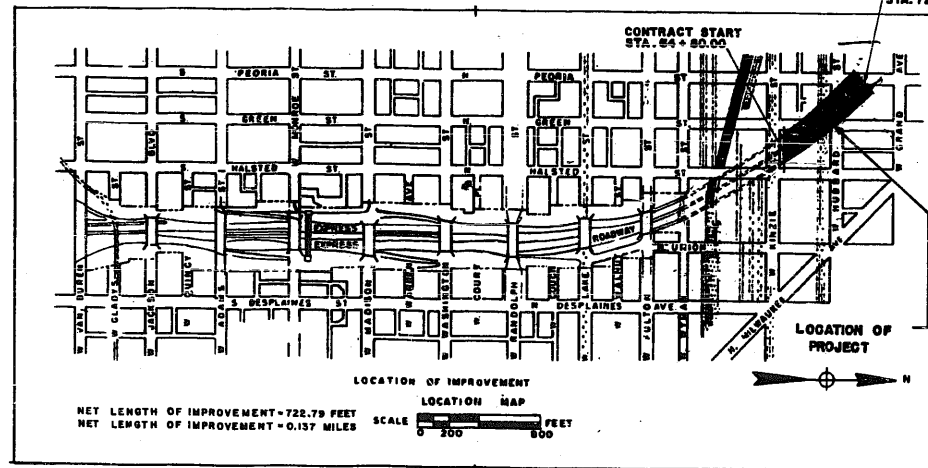
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C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
INCLUDING STRUCTURES FOR
C. & N.W. RY., GREEN ST. & HUBBARD ST.
SECTION 0202.4-2

F.A.I. ROUTE NO. 2 PROJECT I-02-2 (56)



PREPARED FOR
THE CITY OF CHICAGO
BY
ALFRED BENESCH AND ASSOCIATES
CONSULTING ENGINEERS
PLANS APPROVED
BY THE STATE DIVISION OF HIGHWAYS

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CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
DATE JANUARY 2, 1937

APPROVED *W.E. Parsons*
CHIEF ENGINEER

APPROVED *Jack Van Klee*
CHIEF ENGINEER

APPROVED *Ed. Mank*
CHIEF ENGINEER

THE DEPARTMENT OF
PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

APPROVED _____
DISTRICT ENGINEER

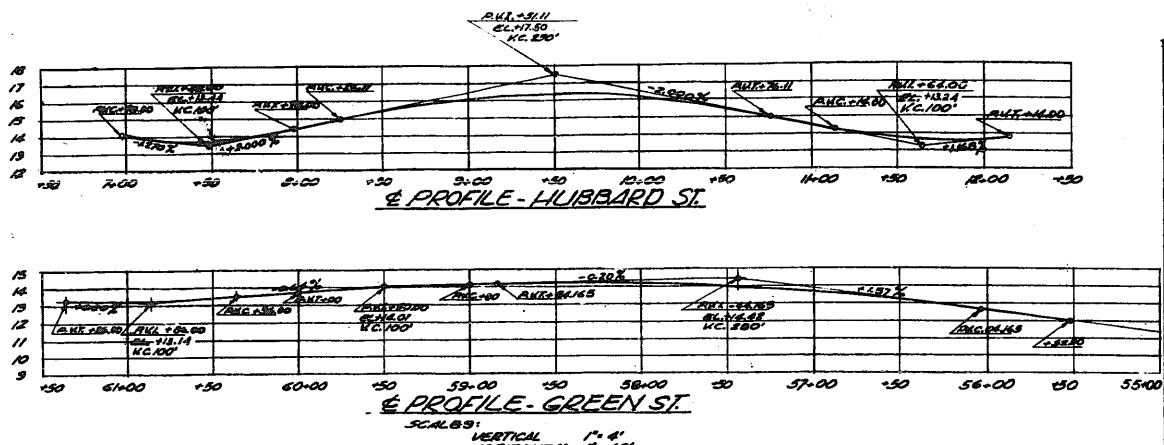
DEPARTMENT OF CONSERVATION
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL _____
DISTRICT ENGINEER

APPROVED AS TO SEWER ALTERATIONS AND ADDITIONS
W. H. H. H. H.
DEPUTY FOR SEWERS

SUMMARY OF QUANTITIES

PROJECT NO.	REC.	COUNTY	TOTAL SHEETS
RAJ-2 PROJ-2	COOK	160	2
DATE	TO DATE		
1958 MAR 27	1958 MAR 27		



GENERAL NOTES

SPECIFICATIONS
DESIGN OF R.R. STEEL SUPERSTRUCTURE IN ACCORDANCE WITH A.R.E.A. SPECIFICATIONS FOR STEEL RAILWAY BRIDGES FOR FIELD SPANS NOT EXCEEDING 100 FT. IN LENGTH, DATED 1918.
DESIGN OF R.R. CONCRETE SUPERSTRUCTURE IN ACCORDANCE WITH A.R.E.A. SPECIFICATIONS FOR DESIGN OF FLAIN & REINFORCED CONCRETE MEMBERS, DATED 1915.
DESIGN OF STREET STRUCTURES IN ACCORDANCE WITH A.A.S.M.A. SPECIFICATIONS FOR HIGHWAY BRIDGES.
BELOW IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR FIELDED HIGHWAY BRIDGES OF THE AMERICAN FIELDING SOCIETY.
DIMENSIONS & MATERIALS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION OF THE STATE OF ILLINOIS, DATED JAN. 2, 1958, AND SUPPLEMENTS THERE TO, EXCEPT THE A.R.E.A. SPECIFICATIONS SHALL GOVERN WHERE EVER APPLICABLE TO THE RAILROAD STRUCTURES.

CONCRETE
CLASS X CONCRETE SHALL BE USED THROUGHOUT THE RAILROAD & STREET STRUCTURES EXCEPT IN CASES WHERE:
CONCRETE FOR CAISSONS SHALL BE CLASSON CONCRETE. CAISSONS SHALL BE FOUNDED ON HARD CLAY HAVING A SAFE BEARING VALUE OF 10,000 LBS. PER SQ. FT. INDIVIDUAL IN BOTTOM OF CAISSON HOLES SHALL BE TESTED FOR UNCOMPRESSED STRENGTH & SHALL BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS PLACED IN CAISSONS. SEE SPECIAL PROVISIONS.
CONCRETE IN PIER ABUTMENTS, RETAINING WALLS & STREET BRIDGE FLOOR SLABS SHALL BE PLACED IN ONE CONTINUOUS OPERATION EXCEPT WHERE CONSTRUCTION JOINTS SHOWN ON PLANS AS SPECIFIED IN SPECIAL PROVISIONS. FINISHING OF FLOOR SLABS SHALL BE AS SPECIFIED IN SPECIAL PROVISIONS.
ALL CONCRETE SHALL BE CHAMPFERED AS SHOWN OTHERWISE SHOWN OR NOTED ON PLANS.
BACK OF ABUTMENTS, RETAINING WALLS & RAILROAD PIERS RETAINING EARTH SHALL BE DAMPROOFED. ALL CONSTRUCTION JOINTS SHALL BE COVERED WITH 2 PLY MEMBRANE WATERPROOFING AS SHOWN IN TYPICAL DETAILS ON SHEET P-20.

STRUCTURAL STEEL
ALL STEEL FOR RAILROAD & STREET STRUCTURES SHALL BE STRUCTURAL STEEL. DIMENSIONS & AREA SPECIFICATION AT PLACES OTHERWISE NOTED ON THE DRAWING OR IN THE SPECIAL PROVISIONS. THE WEIGHT OF ALL ALLY STRUCTURAL STEEL, COPPER BEARING STRUCTURAL STEEL, CORROSION RESISTANT STEEL, CAST STEEL, BRASS PLATES, LEAD PLATES, CAST IRON & WROUGHT IRON ARE INCLUDED IN THE WEIGHT OF STRUCTURAL STEEL AS DESCRIBED IN THE SPECIAL PROVISIONS, & ARE TO BE PAID FOR AT THE CONTRACT UNIT PRICE FOR RAILROAD "STRUCTURAL STEEL". ESTIMATED WEIGHTS OF THESE ITEMS ARE AS FOLLOWS:

RAILROAD STRUCTURE	GREEN ST. HUBBARD ST. STRUCTURE	STRUCTURE	WEIGHT (LBS.)
STRUCTURAL STEEL	6,571,290	6,070,000	12,641,290
LOW-ALLOY STRUCTURAL STEEL	685,000		685,000
COPPER BEARING STRUCTURAL STEEL	1,271,000	17,830	1,288,830
CORROSION RESISTANT STEEL	62,000		62,000
CAST STEEL	117,000		117,000
BRASS PLATES	11,380		11,380
LEAD PLATES	8,860	570	9,430
CAST IRON	200		200
WROUGHT IRON	370		370
TOTAL	8,956,310	6,070,000	15,026,310

INCLUDES \$2000 FOR SHORING FOR WALL A-3.

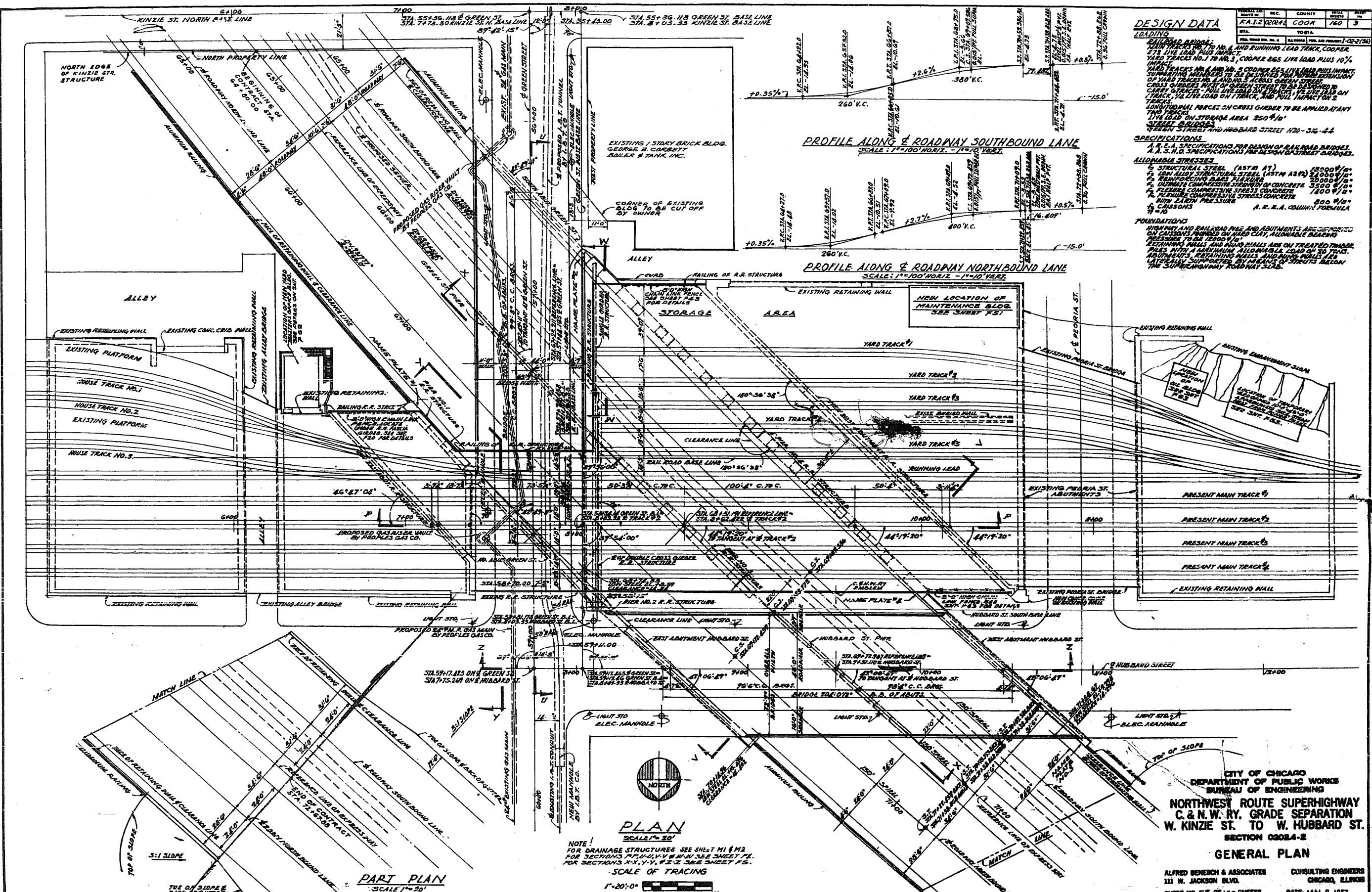
ALL STEEL SHALL BE MILL SHIP & FIELD INSPECTED BY THE CITY OF CHICAGO BEFORE SHIPMENT. ALL UNITS THAT ARE SHOWN TO BE SHIP ASSEMBLED FOR REMAINING SHALL BE INSPECTED BEFORE & AFTER REMAINING IS FULLY ASSEMBLED. STEEL FOR THE RAILROAD STRUCTURES MAY ALSO BE INSPECTED BY THE C. & N. W. RY.
SHIP & FIELD FINISHING OF STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

RAILROAD STRUCTURE REQUIREMENTS
ALL SHIP & FIELD CONNECTIONS SHALL BE RIVETED EXCEPT WHERE OTHERWISE NOTED OR SHOWN ON THE DRAWINGS TO BE BOLTED OR WELDED. RIVETS SHALL BE 7/8" UNLESS OTHERWISE NOTED. TURNED BOLTS SHALL BE 1" UNLESS OTHERWISE NOTED. HOLES SHALL BE 1/16" LARGER THAN RIVET SIZE & 1/32" LARGER THAN TURNED BOLTS.
HOLES FOR SHIP & FIELD RIVETS & TURNED BOLTS SHALL BE SUB-PUNCHED OR SUB-DILLED & REAMED TO SIZE AS REQUIRED BY THE A.R.E.A. SPECIFICATIONS AND AS SPECIFIED BELOW, EXCEPT THAT HOLES FOR TRACK STRINGER BEARING & TRACK BORDER STIFFENERS WHICH ARE NOT AT BEARINGS AND WHICH ARE NOT CONNECTED TO DIAPHRAGMS MAY BE PUNCHED FULL SIZE. HOLES THAT ARE SUB-PUNCHED OR SUB-DILLED SHALL BE 5/16" SMALLER THAN RIVET DIAMETER.

ITEM NO.	UNIT	QUANTITY	DESCRIPTION
1	LUMP SUM	LUMP SUM	TEMPORARY RUMAROUND TRETTLES.
2	LIN. FT.	4,072	FURNISHING STEEL PILES, TEMP SHEET PILING, 12.5 P.S.S.
3	LIN. FT.	45,217	FURNISHING STEEL PILES, TRESTLE, 11.5 P.T.S.
4	LIN. FT.	11,042	FURNISHING STEEL PILES, TRESTLE, 11.5 P.T.S.
5	LIN. FT.	1,130	FURNISHING STEEL PILES, TRESTLE, 11.5 P.T.S.
6	LIN. FT.	1,525	FURNISHING STEEL PILES, TRESTLE, 11.5 P.T.S.
7	LIN. FT.	1,475	FURNISHING STEEL PILES, TRESTLE, 11.5 P.T.S.
8	LIN. FT.	35,960	FURNISHING UNTREATED PILES, TRESTLE (OVER 45 FT.)
9	LIN. FT.	54,869	FURNISHING CRODGED PILES, STRUCTURE (OVER 53 FT.)
10	LIN. FT.	4,072	DRIVING STEEL PILES, TEMP SHEET PILING.
11	LIN. FT.	60,409	DRIVING STEEL PILES, TRESTLE.
12	LIN. FT.	35,960	DRIVING PILES, TRESTLE.
13	LIN. FT.	54,869	DRIVING TIMBER PILES, STRUCTURE.
14	EACH	1	STEEL TEST PILES, TEMP SHEET PILING, 12.5 P.S.S.
15	EACH	6	STEEL TEST PILES, TRESTLE, 11.5 P.T.S.
16	EACH	4	STEEL TEST PILES, TRESTLE, 11.5 P.T.S.
17	EACH	11	TIMBER TEST PILES, TRESTLE.
18	EACH	11	TIMBER TEST PILES, STRUCTURE.
19	CU. YDS.	730	CONCRETE FOUNDATION PADS, TRESTLE.
20	CU. YDS.	255	CONCRETE TRACK PADS, TEMPORARY RUMAROUND.
21	LUMP SUM	LUMP SUM	REMOVAL & REPLACEMENT OF EXISTING R.R. PLATFORMS & MISCELLANEOUS ITEMS.
22	LUMP SUM	LUMP SUM	MOVING & REMOVAL OF EXISTING R.R. STEEL BUILDINGS.
23	LUMP SUM	LUMP SUM	STEEL BUILDINGS COMPLETE.
24	LUMP SUM	LUMP SUM	TEMPORARY SHEET PILING.
25	LUMP SUM	LUMP SUM	REMOVAL OF EXISTING GREEN ST. STRUCTURE.
26	CU. YDS.	156,000	SPECIAL EXCAVATION.
27	CU. YDS.	3,500	CLASS A EXCAVATION FOR STRUCTURES.
28	CU. YDS.	45,000	PARAB GRANULAR EMBANKMENT.
29	CU. FT.	215,000	CAISSON CONCRETE.
30	CU. YDS.	16,550	CLASS X CONCRETE.
31	LBS.	4,700,000	REINFORCEMENT BARS.
32	LBS.	7,600,000	STRUCTURAL STEEL.
33	EACH	4	NAME PLATES.
34	EACH	2	RAILROAD EMBLEMS.
35	SQ. FT.	38,000	MEMBRANE WATERPROOFING, DECK.
36	LIN. FT.	2,100	DECK DRAINS.
37	LIN. FT.	460	WROUGHT IRON PIPE; 6-INCH.
38	LIN. FT.	715	WROUGHT IRON PIPE; 8-INCH.
39	LIN. FT.	155	CORRUGATED METAL PIPE; 8-INCH.
40	LIN. FT.	1,825	PIPE UNDERDRAINS; 8-INCH.
41	LIN. FT.	730	ALUMINUM RAILINGS, BRIDGE.
42	LIN. FT.	535	ALUMINUM RAILING, RETAINING WALL.
43	LIN. FT.	175	PIPE RAILING.

ITEM NO.	UNIT	QUANTITY	DESCRIPTION
44	LIN. FT.	1,635	3-INCH ASBESTOS-CEMENT CONDUIT, WITH HANGERS.
45	LIN. FT.	580	3-INCH ASBESTOS-CEMENT CONDUIT, ENCASED.
46	LIN. FT.	390	5-INCH GALV. STEEL CONDUIT, WITH HANGERS.
47	LIN. FT.	90	5-INCH GALVANIZED STEEL CONDUIT, UNDERGROUND.
48	LIN. FT.	400	2-INCH GALVANIZED STEEL CONDUIT, EXPOSED OR IN CONCRETE.
49	LIN. FT.	2,160	1-INCH GALVANIZED STEEL CONDUIT, EXPOSED OR IN CONCRETE.
50	EACH	6	ELECTRICAL MANHOLES.
51	SQ. YDS.	345	PORTLAND CEMENT CONCRETE BASE COURSE, APPROACH SLABS.
52	SQ. YDS.	2,376	PORTLAND CEMENT CONCRETE BASE COURSE, 9"-11" THICK.
53	SQ. YDS.	200	PORTLAND CEMENT CONCRETE PAVEMENT, 3-INCH.
54	SQ. FT.	2550	REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK.
55	SQ. FT.	9,025	PORTLAND CEMENT CONCRETE SIDEWALK.
56	LIN. FT.	1,025	CONCRETE CURB & GUTTER, TYPE 3.
57	LIN. FT.	75	CONCRETE CURB, TYPE 4.
58	SQ. YDS.	650	PAVEMENT FABRIC.
59	SQ. FT.	600	LONGITUDINAL CURB EXPANSION JOINTS.
60	GALS.	450	BITUMINOUS MATERIALS (PRIME COAT).
61	TONS	320	BITUMINOUS CONCRETE UNDER COURSE.
62	TONS	305	BITUMINOUS CONCRETE SURFACE COURSE, FINE DENSE-GRADED AG GREGATE TYPE, SUBCLASS II.
63	LUMP SUM	LUMP SUM	TEMPORARY BITUMINOUS CONCRETE PAVEMENT.
64	SQ. YDS.	2,310	PAVEMENT REMOVAL.
65	SQ. FT.	8,100	SIDEWALK REMOVAL.
66	LIN. FT.	940	CURB REMOVAL.
67	LIN. FT.	1,510	STORM SEWER, TYPE 2, 8-INCH.
68	LIN. FT.	295	STORM SEWER, TYPE 2, 10-INCH.
69	LIN. FT.	35	STORM SEWER, TYPE 2, 24-INCH.
70	CU. YDS.	255	TRENCH BACKFILL.
71	EACH	6	MANHOLES, TYPE A, 4 FT. DIA.
72	EACH	28	CATCH BASINS, TYPE A, 4 FT. DIA.
73	EACH	7	INLETS, TYPE 5.
74	EACH	3	MANHOLES TO BE ADJUSTED.
75	EACH	5	CATCH BASINS TO BE ADJUSTED.
76	EACH	1	FILLING EXISTING MANHOLES.
77	EACH	1	FILLING EXISTING CATCH BASINS.
78	EACH	3	FILLING EXISTING INLETS.
79	SQ. FT.	104	MISCELLANEOUS TIMBER.
80	LIN. FT.	130	CHAIN LINK FENCE.
81	SQ. YDS.	165	SOODING.
82	EACH	3	LIGHTING CABINETS.
83	EACH	1	FIXED DISCONNECT SWITCH.
84	EACH	37	FLUORESCENT LUMINAIRES.
85	EACH	76	OUTLET BOXES & COVERS.
86	LIN. FT.	7,400	NO. 10 A.M.G. INSULATED WIRE.
87	LIN. FT.	230	NO. 4 A.M.G. INSULATED CABLE.
88	LIN. FT.	1,000	NO. 2 1/2 A.M.G. INSULATED CABLE.
89	LIN. FT.	75	NO. 2 1/2 HEATHERPROOF STRANDED CABLE.
90	LUMP SUM	LUMP SUM	ALTERATIONS TO EXISTING SIGNAL BRIDGES.
91	LIN. FT.	4,800	3-INCH GALVANIZED WROUGHT IRON CONDUIT, RAILROAD PUMPING.
92	MONTHS	12	

CITY OF CHICAGO
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BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0804-2
GENERAL NOTES
QUANTITIES & STREET PROFILES
ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. F-2 OF 160 SHEETS DATE JAN. 9, 1957



PROJECT NO.	REC.	COUNTY	DIST.	DATE
FA.12.0204A	COOK	160	3	

DESIGN DATA

LOADING

RAILROAD BRIDGES:
 MAIN TRACKS NO. 1 TO NO. 4 AND RUNNING LEAD TRACK, COOPER
 LIVE LOAD PLUS IMPACT
 YARD TRACKS NO. 1 TO NO. 5, COOPER 265 LIVE LOAD PLUS 10%
 IMPACT
 TRACKS NO. 1 AND NO. 5 COOPER 265 LIVE LOAD PLUS IMPACT
 SUPPORTING MEMBERS TO BE DESIGNED FOR THE FOLLOWING
 OF YARD TRACKS NO. 1 AND NO. 5 ACROSS GREEN STREET
 CROSSING WEST OF GREEN STREET TO BE DESIGNED TO
 CARRY 6 TRACKS - FULL LIVE LOAD ON TRACKS; 1/2 LIVE LOAD ON
 TRACK; 1/2 LIVE LOAD ON TRACK, AND FULL IMPACT ON 2
 TRACKS
 LONGITUDINAL FORCE ON CROSS GIRDER TO BE APPLIED ANY
 LIVE LOAD ON STORAGE AREA 250' x 10'
STREET BRIDGES
 GREEN STREET AND HUBBARD STREET 120'-3 1/2'-4 1/2'

SPECIFICATIONS

A. E. A. SPECIFICATIONS FOR DESIGN OF RAILROAD BRIDGES.
 A. S. N. O. SPECIFICATIONS FOR DESIGN OF STREET BRIDGES.

ALLOWABLE STRESSES

1. STRUCTURAL STEEL (ASTM A7) 20000 #/sq. in.
 2. LOW ALLOY STRUCTURAL STEEL (ASTM A572) 24000 #/sq. in.
 3. BRIDGING PLATE FLUELS 20000 #/sq. in.
 4. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE 3500 #/sq. in.
 5. TENSILE COMPRESSIVE STRENGTH OF CONCRETE 1800 #/sq. in.
 6. PERMISSIBLE STRESS CONCRETE 800 #/sq. in.
 7. CEMENTS A. S. N. A. COLUMN FORMULA
 8. -10

FOUNDATIONS

HIGHWAY AND RAILROAD PILE AND ABUTMENTS ARE SUPPORTED
 ON CAISSONS BORED ON HARD CLAY, ALLOWABLE BEARING
 CAPACITY 100 TONS PER SQUARE FOOT.
 RETAINING WALLS AND PILING WALLS ARE ON TREATED TIMBER
 PILES WITH A MINIMUM ALLOWABLE LOAD OF 30 TONS.
 RETAINING WALLS, PILING WALLS AND PILING WALLS ARE
 LATERALLY SUPPORTED BY MEANS OF STRUTS BELOW
 THE SUPERHIGHWAY ROADWAY SLAB.

PROFILE ALONG E. ROADWAY SOUTHBOUND LANE
 SCALE: 1"=100' HORIZ. - 1"=10' VERT.

PROFILE ALONG E. ROADWAY NORTHBOUND LANE
 SCALE: 1"=100' HORIZ. - 1"=10' VERT.

PLAN
 SCALE: 1"=30'

NOTE:
 FOR DRAINAGE STRUCTURES SEE SHEET M1 & M2
 FOR SECTIONS X-Y, U-V, W-X, Y-Z SEE SHEET F1.
 FOR SECTIONS X-X', Y-Y', Z-Z' SEE SHEET F5.

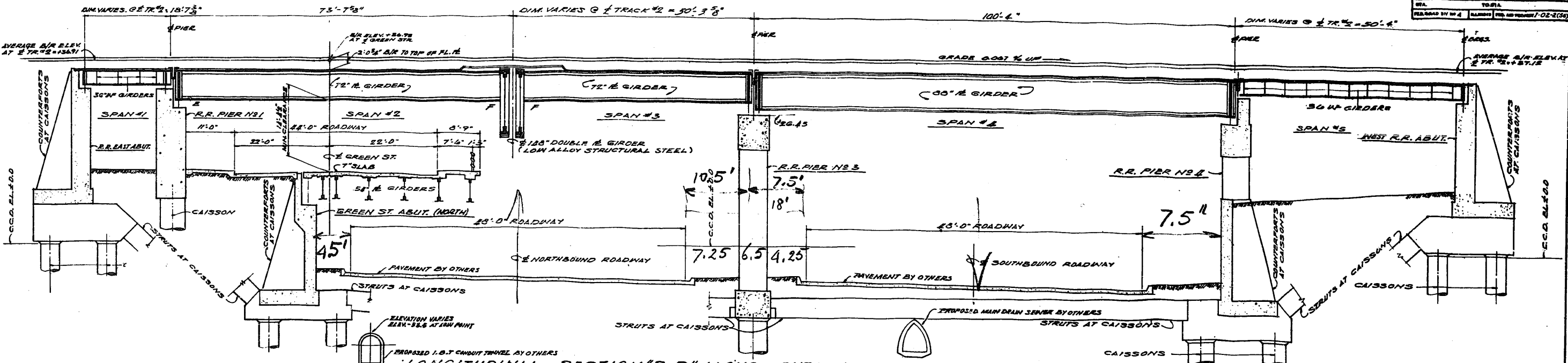


PART PLAN
 SCALE: 1"=20'

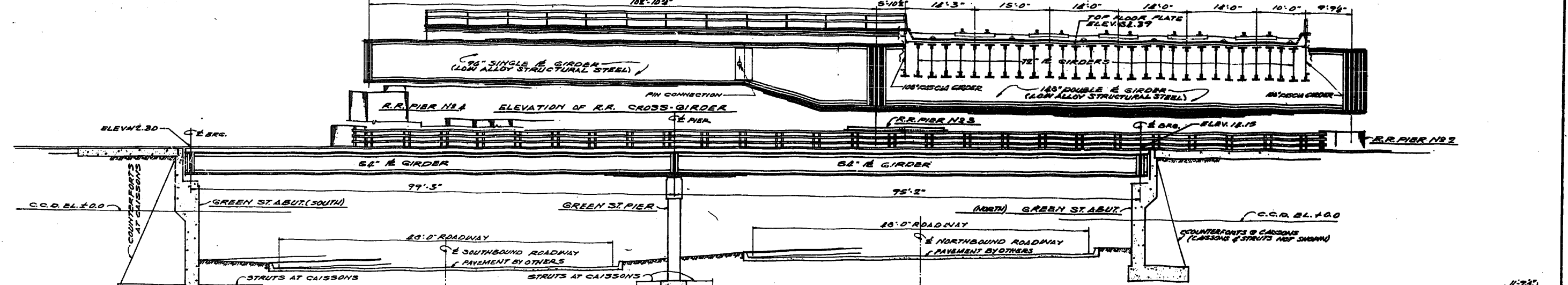
CITY OF CHICAGO
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NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0202A-2
GENERAL PLAN

ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
 111 W. JACKSON BLVD. CHICAGO, ILLINOIS
 SHEET NO. F5 OF 160 SHEETS DATE JAN. 9, 1937.

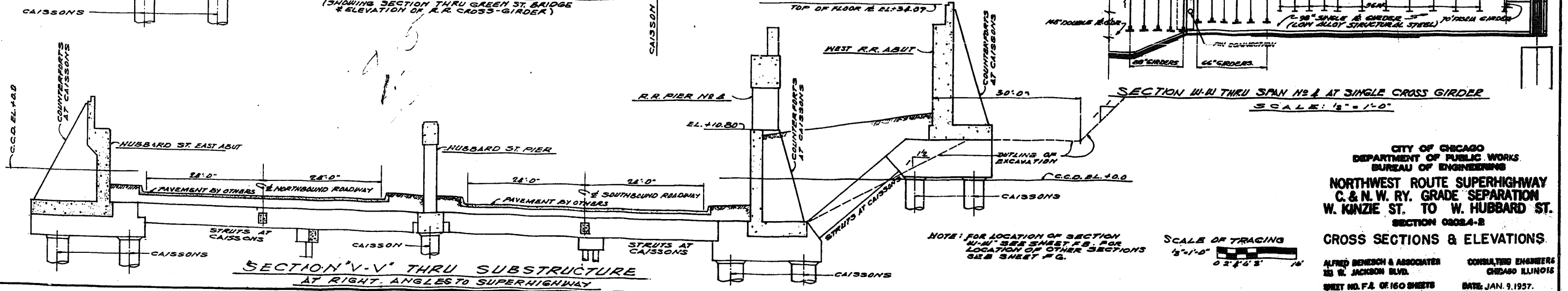
PROJECT NO.	SEC.	COUNTY	SHEET NO.	TOTAL SHEETS
RAJZ 0284-2	COOK	160	4	
DATE	T.O.B.A.			
DESIGNED BY	ALFRED BENESCH & ASSOCIATES, INC.			



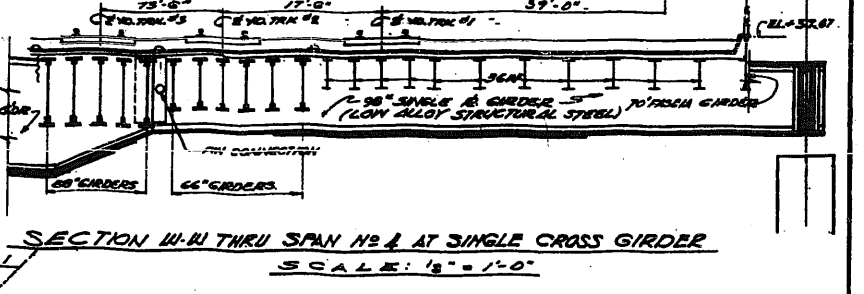
LONGITUDINAL SECTION "P-P" ALONG CENTER LINE OF MAIN TRACK NO 2



LONGITUDINAL SECTION "U-U" ALONG CENTERLINE OF GREEN ST.



SECTION "V-V" THRU SUBSTRUCTURE AT RIGHT ANGLE TO SUPERHIGHWAY



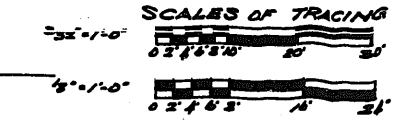
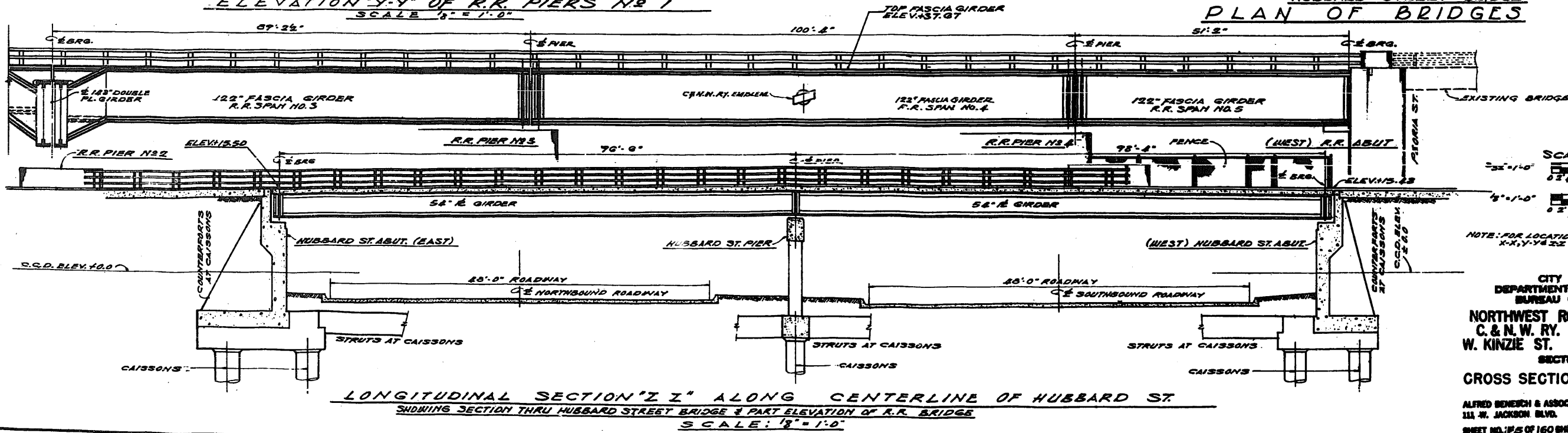
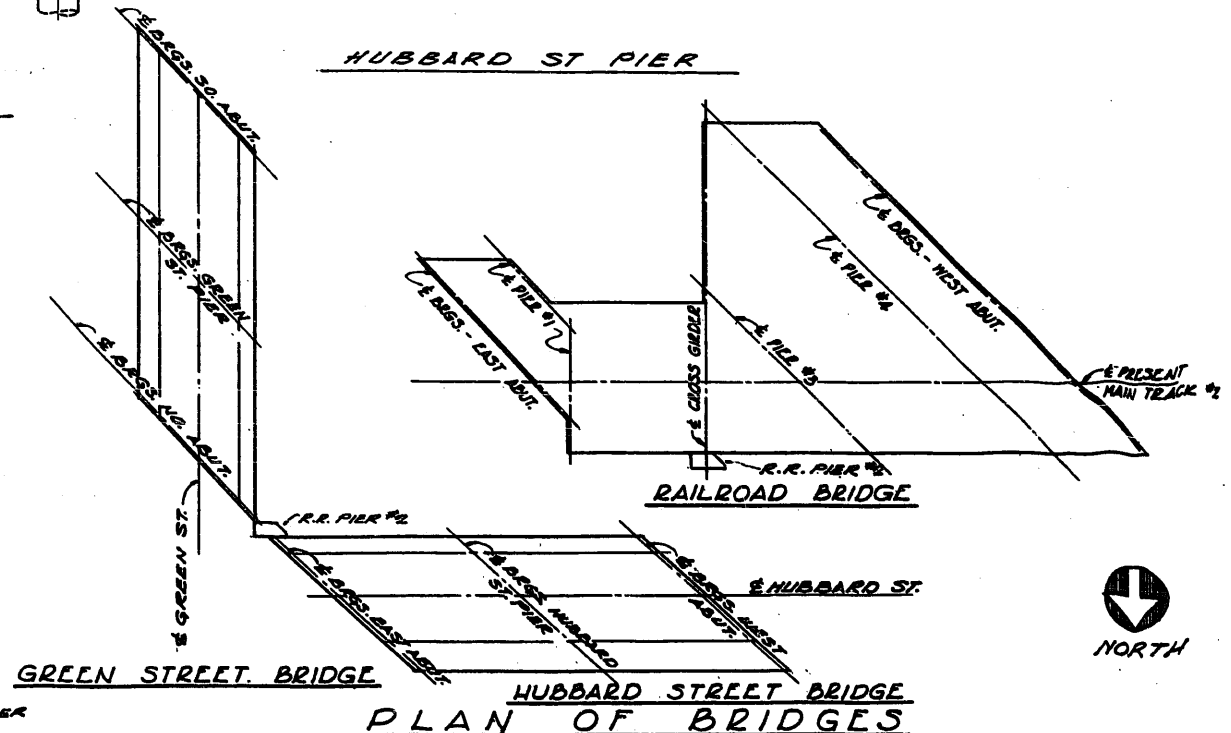
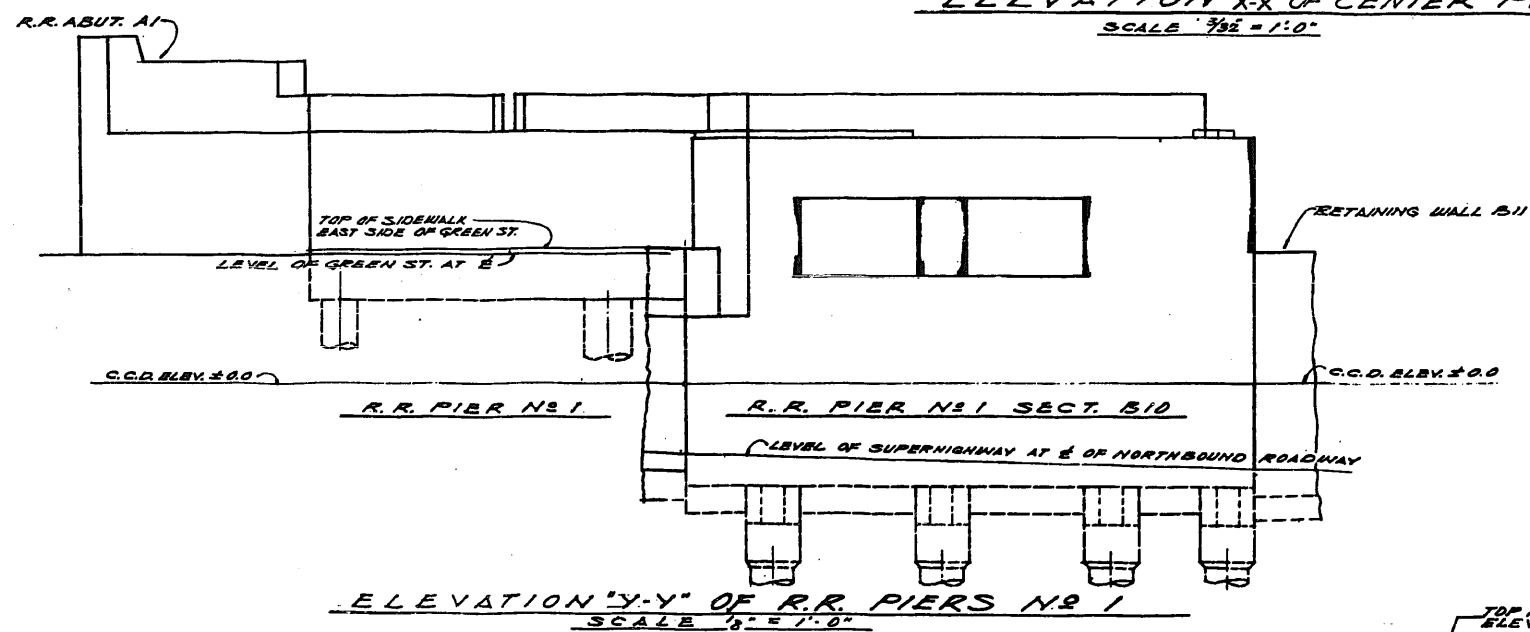
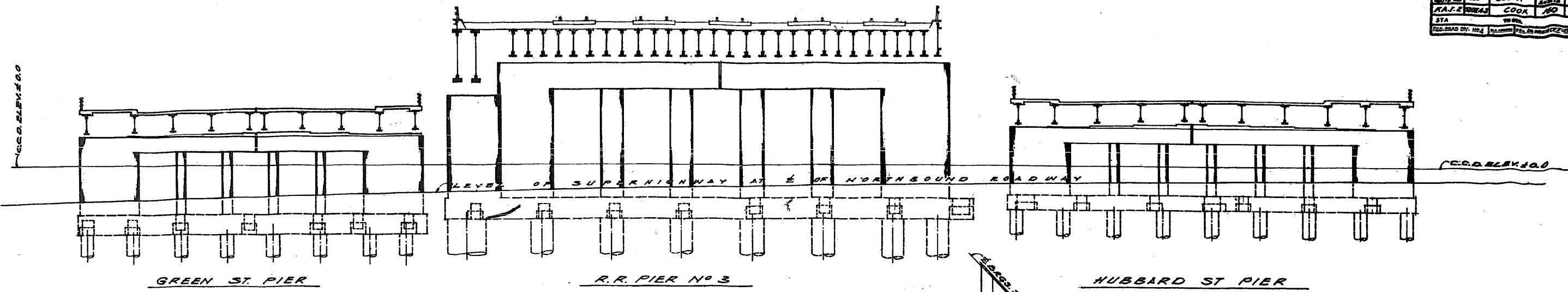
SECTION "W-W" THRU SPAN NO 4 AT SINGLE CROSS GIRDER SCALE: 1/2" = 1'-0"

NOTE: FOR LOCATION OF SECTION W-W SEE SHEET # 3 FOR LOCATION OF OTHER SECTIONS SEE SHEET # 4.

SCALE OF TRACING 1/2" = 1'-0" 0 2 4 6 8 10

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0284-2
CROSS SECTIONS & ELEVATIONS
ALFRED BENESCH & ASSOCIATES
235 W. JACKSON BLVD.
CHICAGO ILLINOIS
CONSULTING ENGINEERS
CHICAGO ILLINOIS
DATE: JAN. 9, 1957.

TOTAL SHEETS	NO.	COUNTY	TOTAL SHEETS	SHEET NO.
100	8	COOK	100	8
STA.				
DESIGNED BY: [Name]				



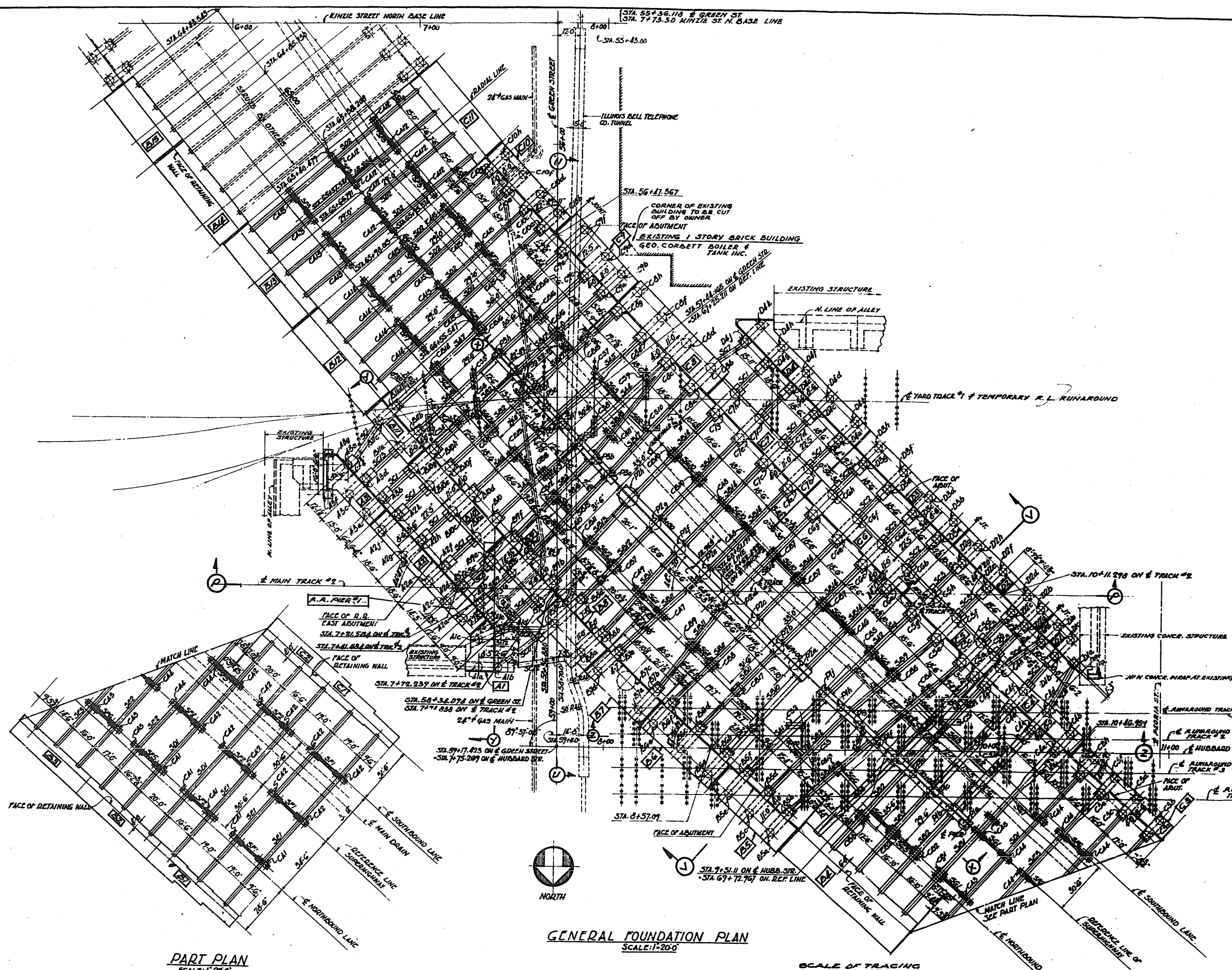
NOTE: FOR LOCATIONS OF SECTIONS X-X, Y-Y & Z-Z SEE SHEET P.3

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0204-2
CROSS SECTIONS & ELEVATIONS

ALFRED BENECH & ASSOCIATES
111 W. JACKSON BLVD.
CHICAGO, ILL.
DATE: JAN. 9, 1957.

PROJECT NO.	SEC.	COUNTY	TOWNSHIP	RANGE
A.A.72	1001-2	COOK	160	6
STA.	TO STA.			
74	75			

HALL SECTION MARK	DESCRIPTION	SHEET NOS.
A 1	R.R. ABUTMENT	F 7
A 2	R.R. ABUTMENT	F 8
A 3	R.R. ABUTMENT	F 11
B 1	RETAINING WALL	F 12
B 2	RETAINING WALL	F 13
B 3	RETAINING WALL	F 13
B 4	RETAINING WALL	F 13
B 5	RETAINING WALL	F 13
B 6	RETAINING WALL	F 13
B 7	HUBBARD ST. ABUT.	F 13, F 13
B 8	HUBBARD ST. ABUT.	F 13, F 13
B 9	GREEN ST. ABUT.	F 13, F 13
B 10	R.R. PIER NO. 1	F 13, F 13
B 11	RETAINING WALL	F 13
B 12	RETAINING WALL	F 13
B 13	RETAINING WALL	F 13
B 14	RETAINING WALL	F 13
B 15	RETAINING WALL	F 13
B 16	RETAINING WALL	F 13
B 17	RETAINING WALL	F 13
B 18	RETAINING WALL	F 13
B 19	RETAINING WALL	F 13
B 20	RETAINING WALL	F 13
B 21	RETAINING WALL	F 13
B 22	RETAINING WALL	F 13
B 23	RETAINING WALL	F 13
B 24	RETAINING WALL	F 13
B 25	RETAINING WALL	F 13
B 26	RETAINING WALL	F 13
B 27	RETAINING WALL	F 13
B 28	RETAINING WALL	F 13
B 29	RETAINING WALL	F 13
B 30	RETAINING WALL	F 13
B 31	RETAINING WALL	F 13
B 32	RETAINING WALL	F 13
B 33	RETAINING WALL	F 13
B 34	RETAINING WALL	F 13
B 35	RETAINING WALL	F 13
B 36	RETAINING WALL	F 13
B 37	RETAINING WALL	F 13
B 38	RETAINING WALL	F 13
B 39	RETAINING WALL	F 13
B 40	RETAINING WALL	F 13
B 41	RETAINING WALL	F 13
B 42	RETAINING WALL	F 13
B 43	RETAINING WALL	F 13
B 44	RETAINING WALL	F 13
B 45	RETAINING WALL	F 13
B 46	RETAINING WALL	F 13
B 47	RETAINING WALL	F 13
B 48	RETAINING WALL	F 13
B 49	RETAINING WALL	F 13
B 50	RETAINING WALL	F 13
B 51	RETAINING WALL	F 13
B 52	RETAINING WALL	F 13
B 53	RETAINING WALL	F 13
B 54	RETAINING WALL	F 13
B 55	RETAINING WALL	F 13
B 56	RETAINING WALL	F 13
B 57	RETAINING WALL	F 13
B 58	RETAINING WALL	F 13
B 59	RETAINING WALL	F 13
B 60	RETAINING WALL	F 13
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B 62	RETAINING WALL	F 13
B 63	RETAINING WALL	F 13
B 64	RETAINING WALL	F 13
B 65	RETAINING WALL	F 13
B 66	RETAINING WALL	F 13
B 67	RETAINING WALL	F 13
B 68	RETAINING WALL	F 13
B 69	RETAINING WALL	F 13
B 70	RETAINING WALL	F 13
B 71	RETAINING WALL	F 13
B 72	RETAINING WALL	F 13
B 73	RETAINING WALL	F 13
B 74	RETAINING WALL	F 13
B 75	RETAINING WALL	F 13
B 76	RETAINING WALL	F 13
B 77	RETAINING WALL	F 13
B 78	RETAINING WALL	F 13
B 79	RETAINING WALL	F 13
B 80	RETAINING WALL	F 13
B 81	RETAINING WALL	F 13
B 82	RETAINING WALL	F 13
B 83	RETAINING WALL	F 13
B 84	RETAINING WALL	F 13
B 85	RETAINING WALL	F 13
B 86	RETAINING WALL	F 13
B 87	RETAINING WALL	F 13
B 88	RETAINING WALL	F 13
B 89	RETAINING WALL	F 13
B 90	RETAINING WALL	F 13
B 91	RETAINING WALL	F 13
B 92	RETAINING WALL	F 13
B 93	RETAINING WALL	F 13
B 94	RETAINING WALL	F 13
B 95	RETAINING WALL	F 13
B 96	RETAINING WALL	F 13
B 97	RETAINING WALL	F 13
B 98	RETAINING WALL	F 13
B 99	RETAINING WALL	F 13
B 100	RETAINING WALL	F 13
C 1	R.R. PIER NO. 1	F 13
C 2	R.R. PIER NO. 2	F 13
C 3	R.R. PIER NO. 3	F 13
C 4	R.R. PIER NO. 4	F 13
C 5	R.R. PIER NO. 5	F 13
C 6	R.R. PIER NO. 6	F 13
C 7	R.R. PIER NO. 7	F 13
C 8	R.R. PIER NO. 8	F 13
C 9	R.R. PIER NO. 9	F 13
C 10	R.R. PIER NO. 10	F 13
C 11	R.R. PIER NO. 11	F 13
C 12	R.R. PIER NO. 12	F 13
C 13	R.R. PIER NO. 13	F 13
C 14	R.R. PIER NO. 14	F 13
C 15	R.R. PIER NO. 15	F 13
C 16	R.R. PIER NO. 16	F 13
C 17	R.R. PIER NO. 17	F 13
C 18	R.R. PIER NO. 18	F 13
C 19	R.R. PIER NO. 19	F 13
C 20	R.R. PIER NO. 20	F 13
C 21	R.R. PIER NO. 21	F 13
C 22	R.R. PIER NO. 22	F 13
C 23	R.R. PIER NO. 23	F 13
C 24	R.R. PIER NO. 24	F 13
C 25	R.R. PIER NO. 25	F 13
C 26	R.R. PIER NO. 26	F 13
C 27	R.R. PIER NO. 27	F 13
C 28	R.R. PIER NO. 28	F 13
C 29	R.R. PIER NO. 29	F 13
C 30	R.R. PIER NO. 30	F 13
C 31	R.R. PIER NO. 31	F 13
C 32	R.R. PIER NO. 32	F 13
C 33	R.R. PIER NO. 33	F 13
C 34	R.R. PIER NO. 34	F 13
C 35	R.R. PIER NO. 35	F 13
C 36	R.R. PIER NO. 36	F 13
C 37	R.R. PIER NO. 37	F 13
C 38	R.R. PIER NO. 38	F 13
C 39	R.R. PIER NO. 39	F 13
C 40	R.R. PIER NO. 40	F 13
C 41	R.R. PIER NO. 41	F 13
C 42	R.R. PIER NO. 42	F 13
C 43	R.R. PIER NO. 43	F 13
C 44	R.R. PIER NO. 44	F 13
C 45	R.R. PIER NO. 45	F 13
C 46	R.R. PIER NO. 46	F 13
C 47	R.R. PIER NO. 47	F 13
C 48	R.R. PIER NO. 48	F 13
C 49	R.R. PIER NO. 49	F 13
C 50	R.R. PIER NO. 50	F 13
C 51	R.R. PIER NO. 51	F 13
C 52	R.R. PIER NO. 52	F 13
C 53	R.R. PIER NO. 53	F 13
C 54	R.R. PIER NO. 54	F 13
C 55	R.R. PIER NO. 55	F 13
C 56	R.R. PIER NO. 56	F 13
C 57	R.R. PIER NO. 57	F 13
C 58	R.R. PIER NO. 58	F 13
C 59	R.R. PIER NO. 59	F 13
C 60	R.R. PIER NO. 60	F 13
C 61	R.R. PIER NO. 61	F 13
C 62	R.R. PIER NO. 62	F 13
C 63	R.R. PIER NO. 63	F 13
C 64	R.R. PIER NO. 64	F 13
C 65	R.R. PIER NO. 65	F 13
C 66	R.R. PIER NO. 66	F 13
C 67	R.R. PIER NO. 67	F 13
C 68	R.R. PIER NO. 68	F 13
C 69	R.R. PIER NO. 69	F 13
C 70	R.R. PIER NO. 70	F 13
C 71	R.R. PIER NO. 71	F 13
C 72	R.R. PIER NO. 72	F 13
C 73	R.R. PIER NO. 73	F 13
C 74	R.R. PIER NO. 74	F 13
C 75	R.R. PIER NO. 75	F 13
C 76	R.R. PIER NO. 76	F 13
C 77	R.R. PIER NO. 77	F 13
C 78	R.R. PIER NO. 78	F 13
C 79	R.R. PIER NO. 79	F 13
C 80	R.R. PIER NO. 80	F 13
C 81	R.R. PIER NO. 81	F 13
C 82	R.R. PIER NO. 82	F 13
C 83	R.R. PIER NO. 83	F 13
C 84	R.R. PIER NO. 84	F 13
C 85	R.R. PIER NO. 85	F 13
C 86	R.R. PIER NO. 86	F 13
C 87	R.R. PIER NO. 87	F 13
C 88	R.R. PIER NO. 88	F 13
C 89	R.R. PIER NO. 89	F 13
C 90	R.R. PIER NO. 90	F 13
C 91	R.R. PIER NO. 91	F 13
C 92	R.R. PIER NO. 92	F 13
C 93	R.R. PIER NO. 93	F 13
C 94	R.R. PIER NO. 94	F 13
C 95	R.R. PIER NO. 95	F 13
C 96	R.R. PIER NO. 96	F 13
C 97	R.R. PIER NO. 97	F 13
C 98	R.R. PIER NO. 98	F 13
C 99	R.R. PIER NO. 99	F 13
C 100	R.R. PIER NO. 100	F 13

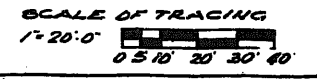


NOTE FOR SECTIONS P-P, U-U & V-V SEE SHEET P-4 FOR SECTIONS X-X, Y-Y & Z-Z SEE SHEET P-5

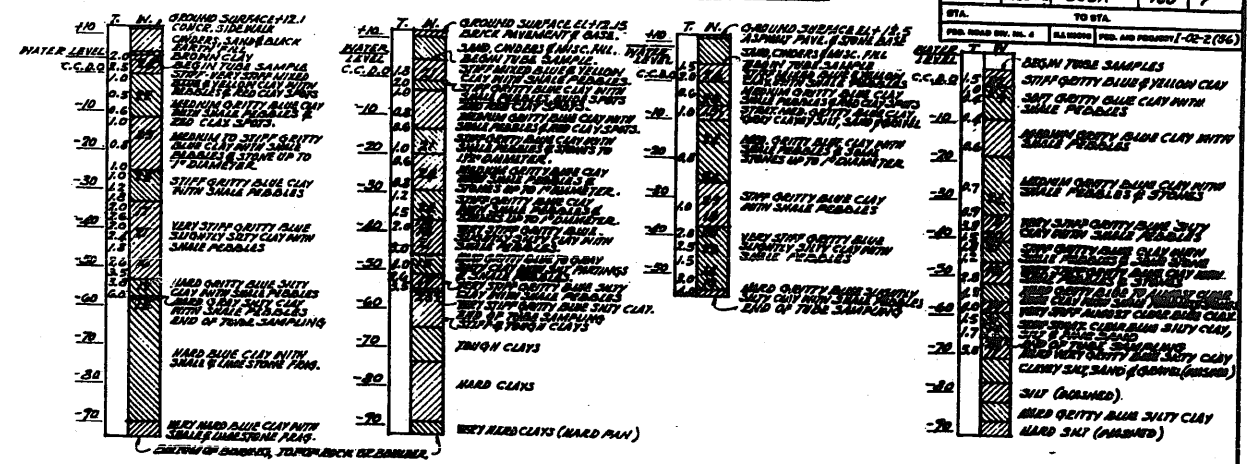
CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST
SECTION 02024-2
GENERAL FOUNDATION PLAN
ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. FG OF 160 SHEETS DATE: JAN. 9, 1957

PART PLAN
SCALE: 1"=20'-0"

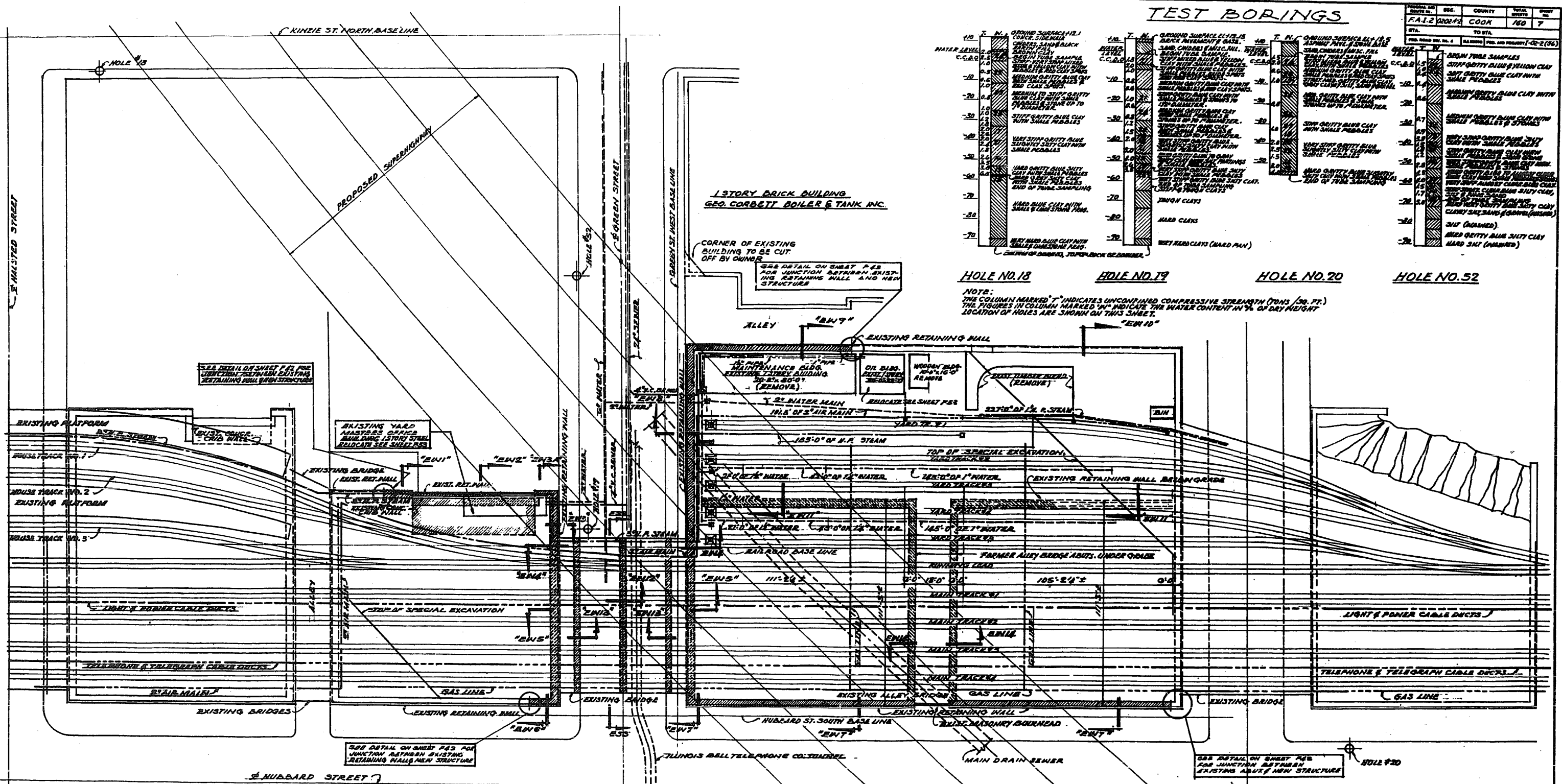
GENERAL FOUNDATION PLAN
SCALE: 1"=20'-0"



TEST BORINGS



HOLE NO. 18 **HOLE NO. 19** **HOLE NO. 20** **HOLE NO. 52**
 NOTE:
 THE COLUMN MARKED "T" INDICATES UNCONFINED COMPRESSIVE STRENGTH (TONS / SQ. FT.)
 THE FIGURES IN COLUMN MARKED "W" INDICATE THE WATER CONTENT IN % OF DRY WEIGHT
 LOCATION OF HOLES ARE SHOWN ON THIS SHEET.



1 STORY BRICK BUILDING
GEO CORBETT BOILER & TANK INC.
 CORNER OF EXISTING BUILDING TO BE CUT OFF BY DUMPS

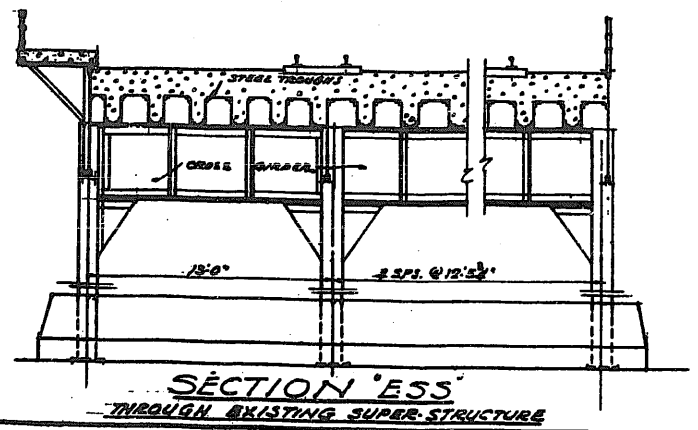
SEE DETAIL ON SHEET P-2 FOR JUNCTION BETWEEN EXISTING RETAINING WALL AND NEW STRUCTURE

SEE DETAIL ON SHEET P-2 FOR JUNCTION BETWEEN EXISTING RETAINING WALL AND NEW STRUCTURE

EXISTING YARD MASTER'S OFFICE BUILDING 1 STORY STEEL RELOCATE SEE SHEET P-2

SEE DETAIL ON SHEET P-2 FOR JUNCTION BETWEEN EXISTING RETAINING WALL AND NEW STRUCTURE

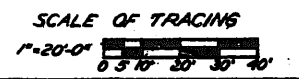
SEE DETAIL ON SHEET P-2 FOR JUNCTION BETWEEN EXISTING ABUTMENT AND NEW STRUCTURE



PLAN OF EXISTING STRUCTURES
 SCALE 1" = 20 FEET

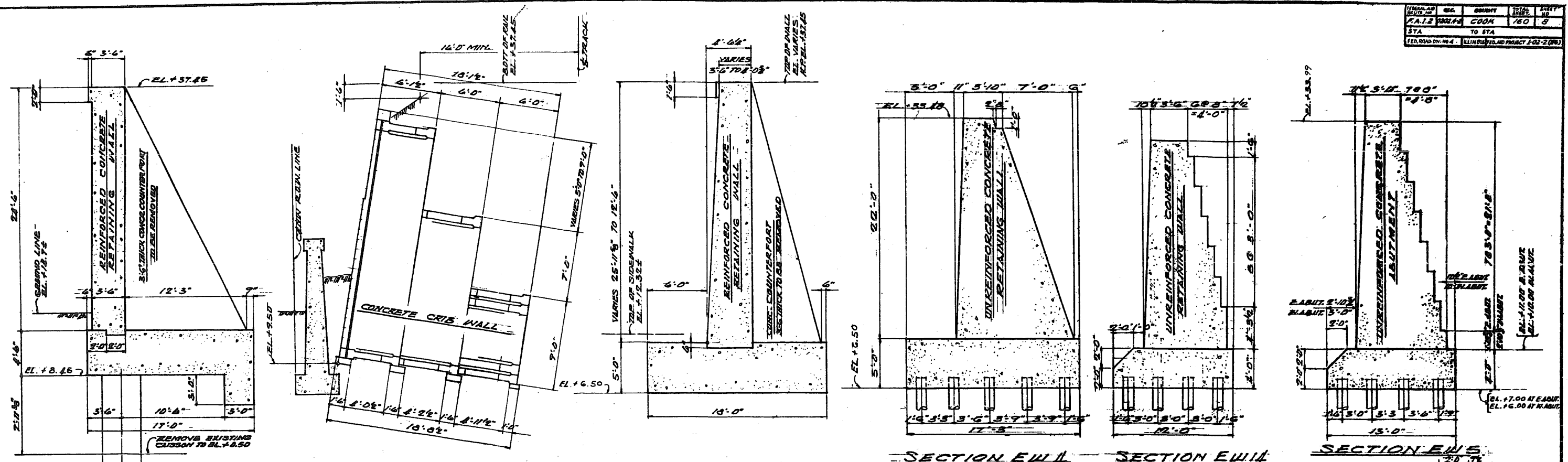


NOTE
 PORTIONS OF EXISTING STRUCTURES SHOWN CROSS-HATCHED ARE TO BE REMOVED UNDER PAY ITEM 26.
 THE GREEN STREET SUPER STRUCTURE TO BE REMOVED UNDER PAY ITEM 25.
 THE EXISTING YARD MASTER OFFICE BUILDING SHALL BE RELOCATED AND REMOVED. THE EXISTING OIL BUILDING SHALL BE RELOCATED. AND THE EXISTING MAINTENANCE BUILDING SHALL BE REMOVED. ALL INCLUDED UNDER PAY ITEM 22.
 THE CONCRETE LOADING PLATFORMS THAT INTERFERE WITH CONSTRUCTION OF THE TEMPORARY LEAD INTO THE RAILWAY EXPRESS TERMINAL ARE TO BE REMOVED AND RECONSTRUCTED WHEN THE TEMPORARY TRACKS ARE REMOVED. UNDER PAY ITEM 21.
 FOR SECTION EWS1 TO EWS18 INCLUSIVE SEE SHEET P-2



CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0202-2
EXISTING STRUCTURES & BORING DATA
 ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
 111 W. JACKSON BLDG. CHICAGO, ILLINOIS
 SHEET NO. F7 OF 160 SHEETS DATE JAN 9-1927

TOTAL SHEETS	160	TOTAL PAGES	3
NO. OF SHEETS	160	NO. OF PAGES	3
NO. OF SHEETS	160	NO. OF PAGES	3
NO. OF SHEETS	160	NO. OF PAGES	3



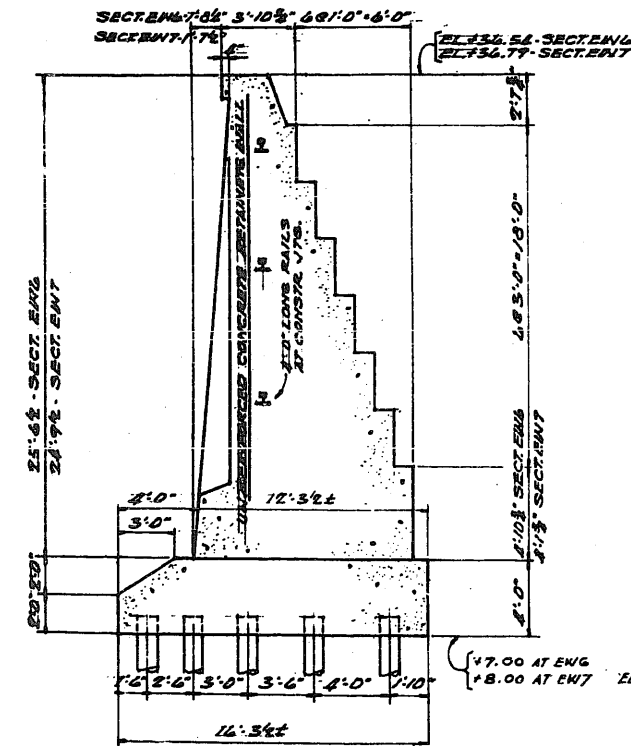
SECTION EW1

SECTION EW2

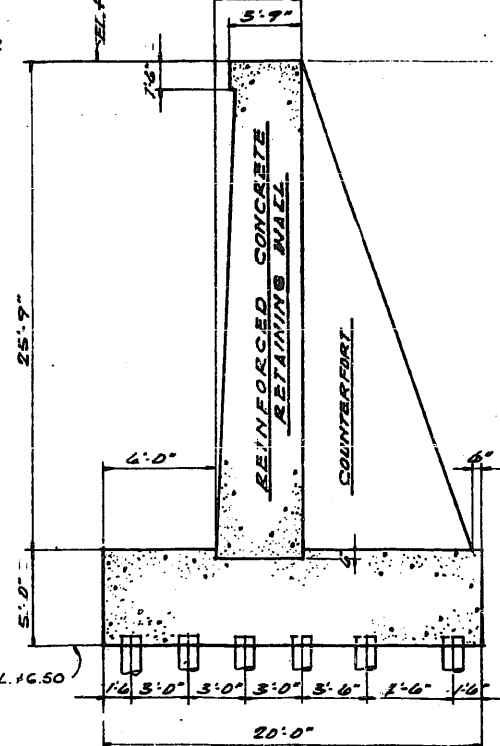
SECTION EW3

SECTION EW4

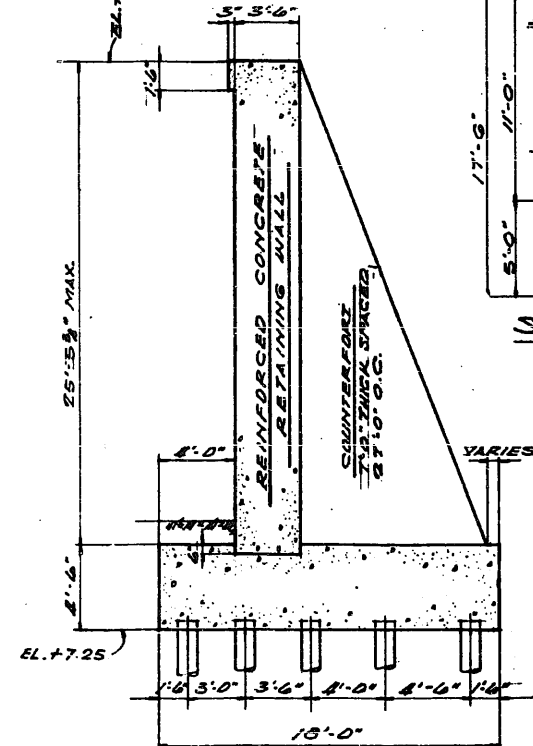
SECTION EW5



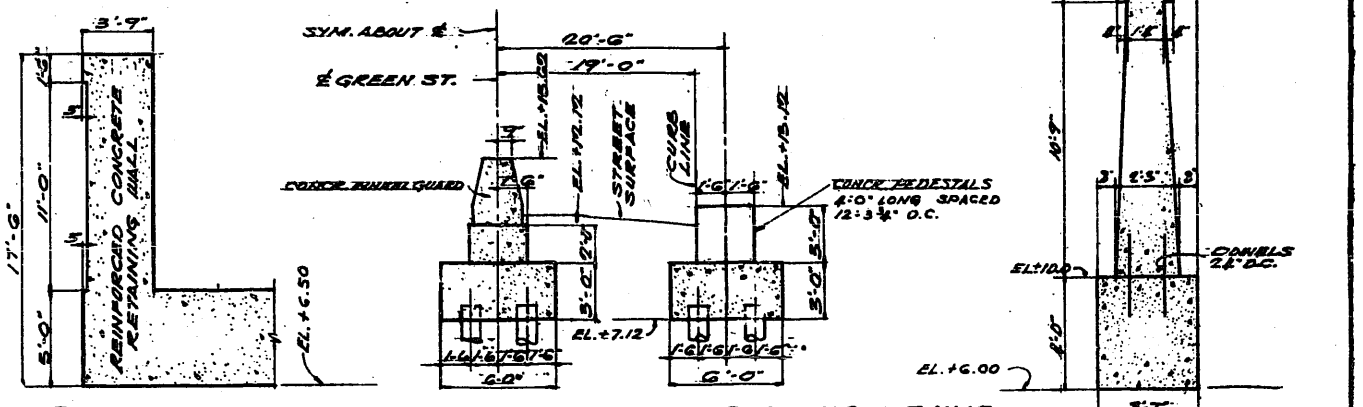
SECTIONS EW6 & EW7



SECTION EW8



SECTION EW9



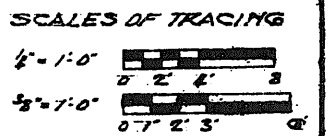
SECTION EW10A

SECTION EW10B

SECTION EW10C

SECTION EW10

NOTE: INFORMATION SHOWN REGARDING EXISTING STRUCTURES WAS OBTAINED FROM C. & N. W. RY. DRAWINGS AND MAY VARY SOMEWHAT FROM STRUCTURES AS BUILT.

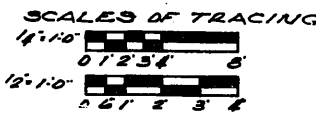
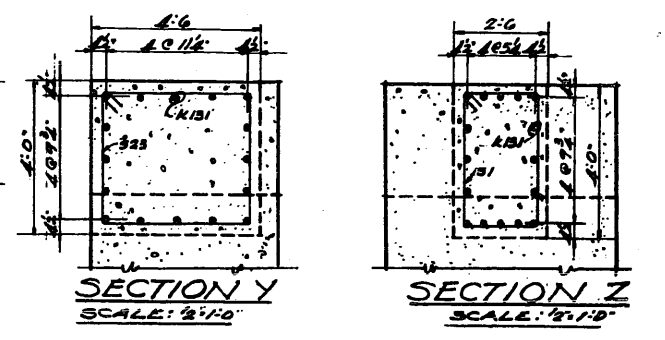
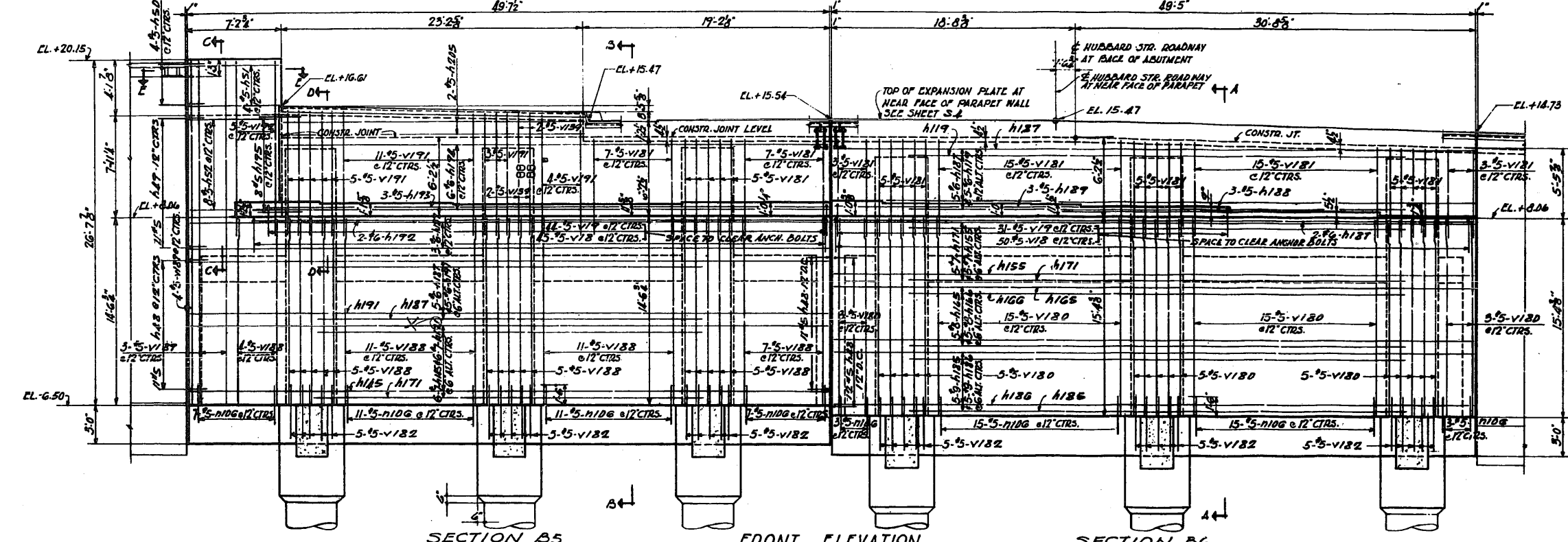
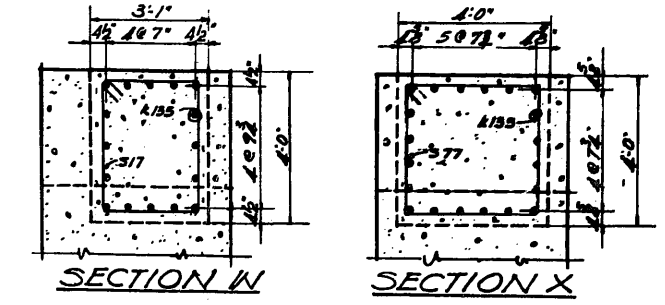
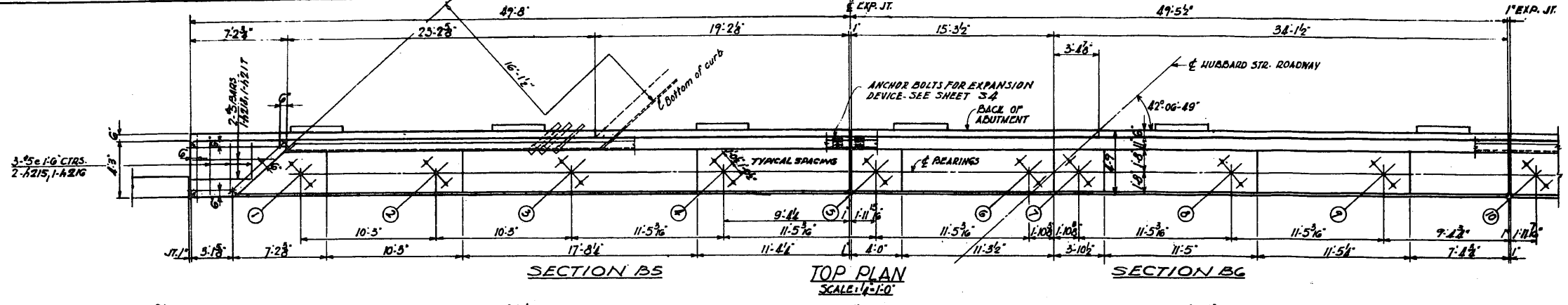


CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 C. & N. W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 02024-2

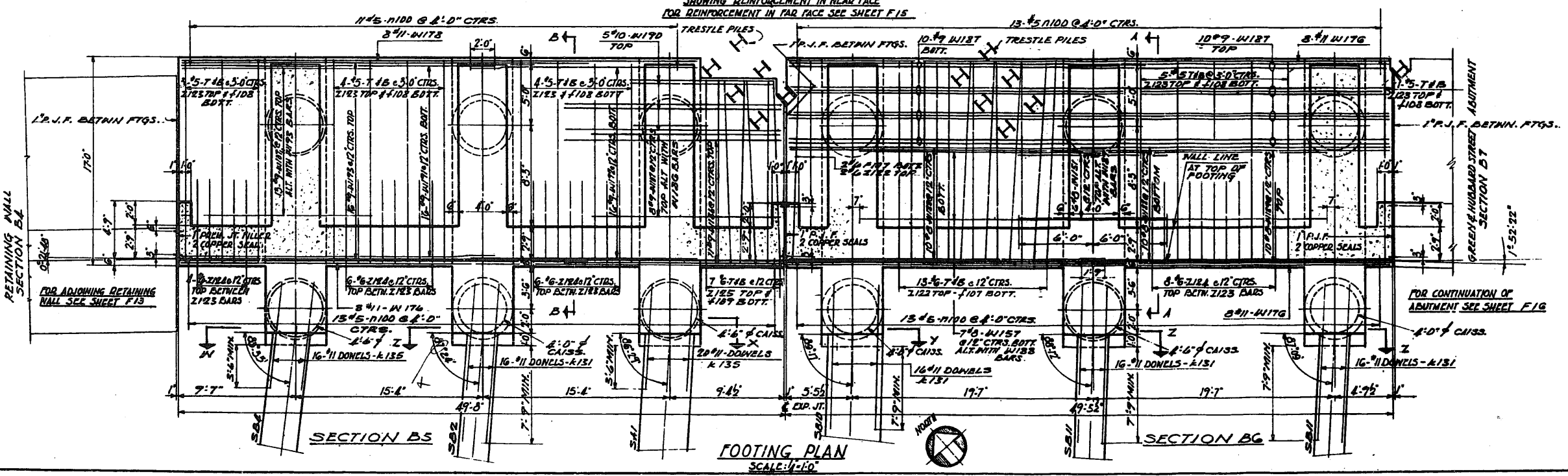
SECTIONS THRU EXISTING STRUCTURES

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
 131 W. JACKSON BLVD. CHICAGO, ILLINOIS
 SHEET NO. FS OF 160 SHEETS DATE: JAN. 7 - 1957

DISTRICT	NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1ST DIST.	1024-2	COOK	160	14
STA.	TO STA.			
FEL. ROAD ON I-55 ILLINOIS PROJECT 02-2 (56)				



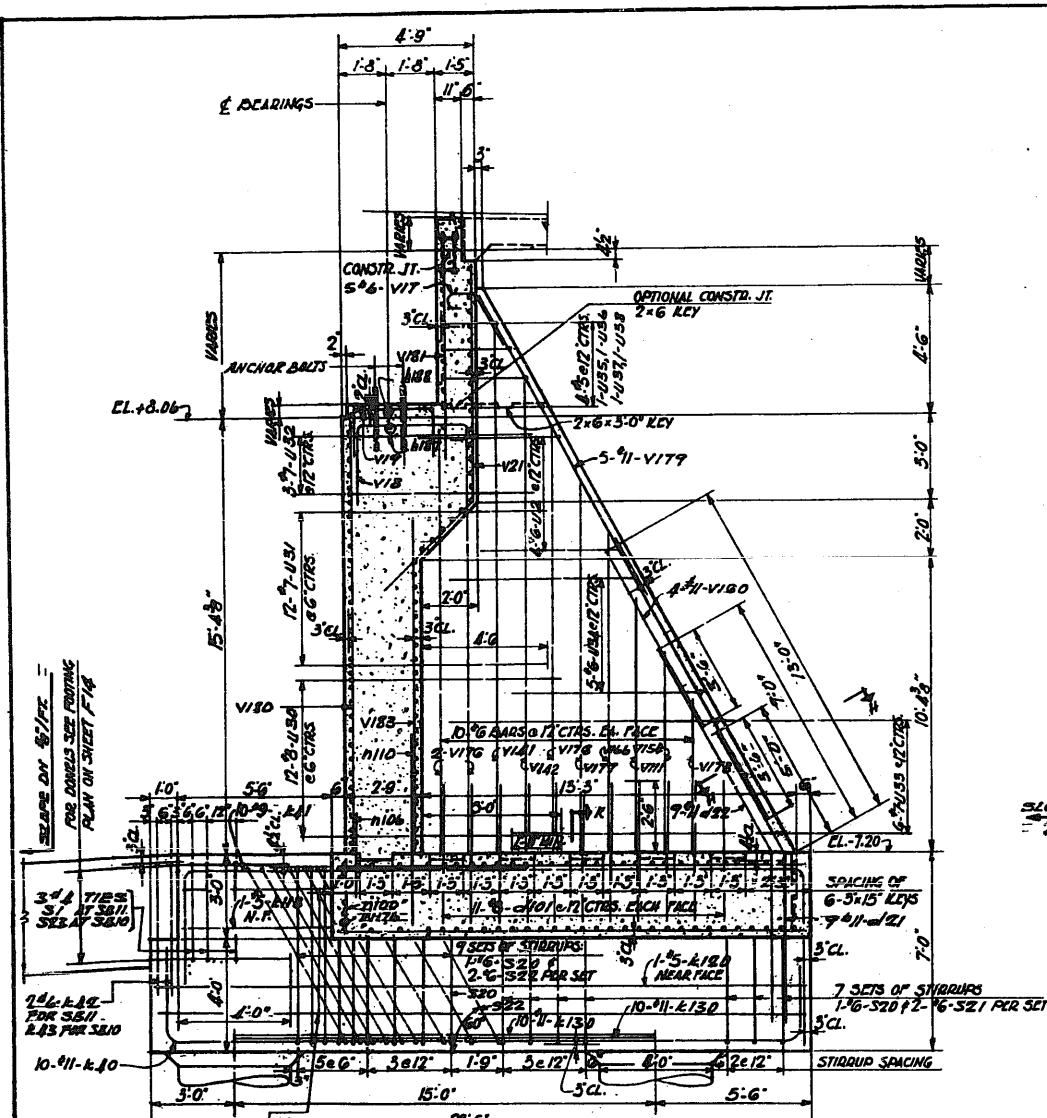
NOTE:
ALL TEMPORARY STEEL TRESTLE PILES WHICH ARE ENCASED IN PORTLAND CEMENT SHALL BE BURNT OFF ABOVE TOP OF SLAB AND TREATED AS REQUIRED BY SPECIAL PROVISIONS. OTHER PILES BEHIND ABUTMENT MAY BE PULLED OR BURNT OFF AT OPTION OF THE CONTRACTOR.
FOR WALL SECTIONS AND REINFORCING IN FAR FACE OF ABUTMENT WALL SEE SHEET F15



ITEM	DESCRIPTION	UNIT	QUANTITY
30	CLASS X CONC.	CU YD	730.1
31	REINF. BARS	LBS.	20185

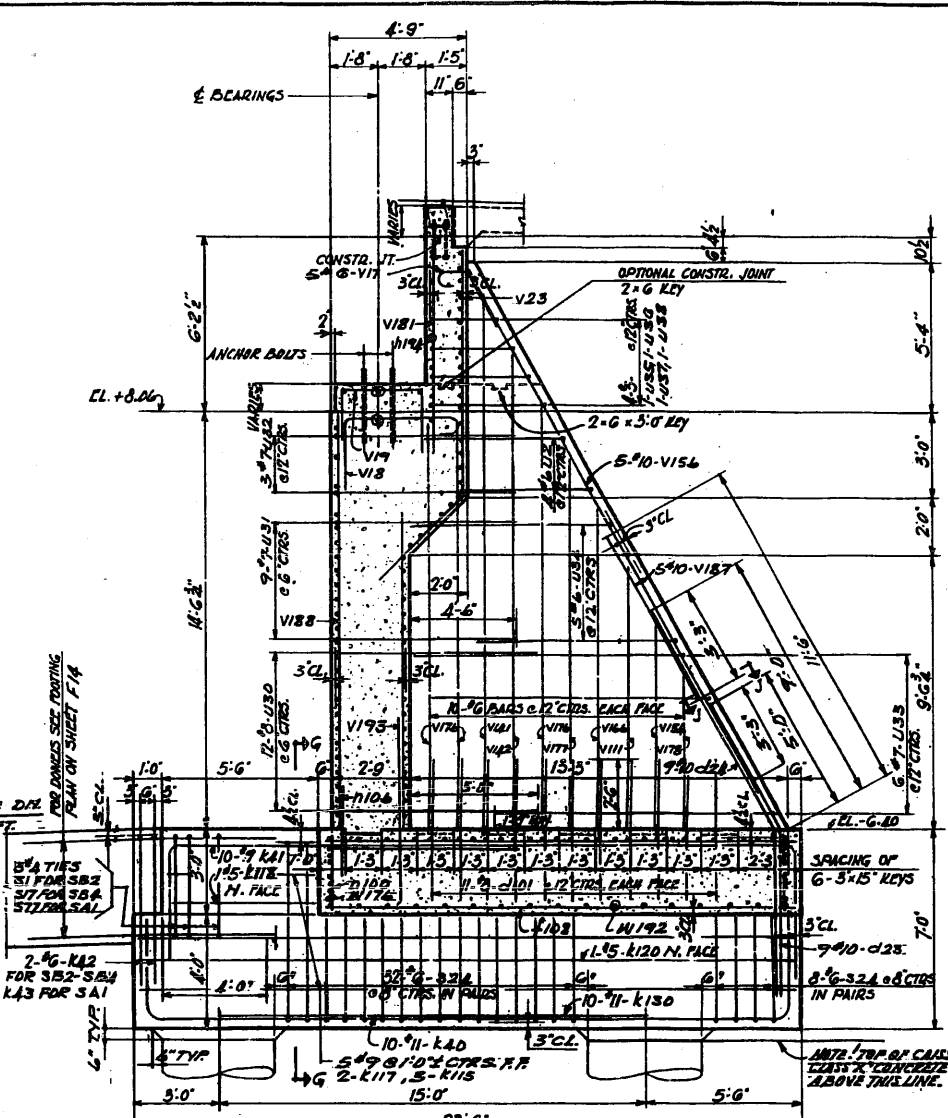
CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0202.4-2
HUBBARD ST. ABUTMENT SECTIONS B5, B6.
ALFRED BEMERCH & ASSOCIATES CONSULTING ENGINEERS
131 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. F14 OF 160 SHEETS DATE JAN 9 - 1957

PROJECT NO.	DESIGN NO.	COUNTY	SHEET NO.	TOTAL SHEETS
RA-12	2001-1	COOK	160	15
DATE	TO B.T.A.			
FOR ROAD BY CH. 4 (LAWRENCE) FOR AN ABUTMENT (20-215)				



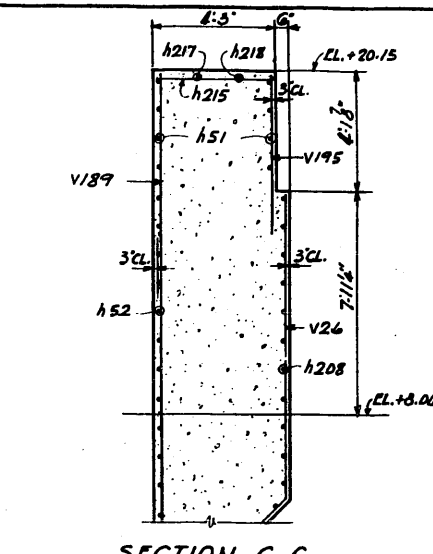
SECTION A-A
SCALE: 3/4"=1'-0"

NOTE: ALL DETAILS AND REINFORCING ARE TYPICAL FOR EACH COUNTER FORT IN SECTION B5

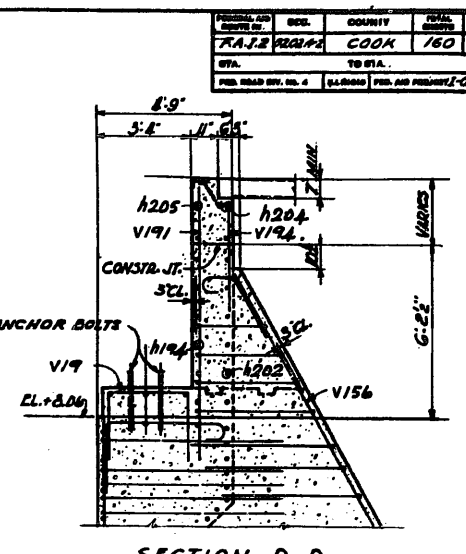


SECTION B-B
SCALE: 3/4"=1'-0"

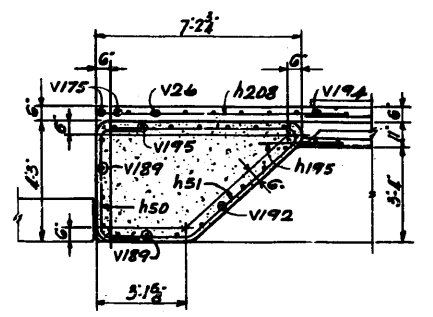
NOTE: ALL DETAILS AND REINFORCING ARE TYPICAL FOR EACH COUNTER FORT IN SECTION B5



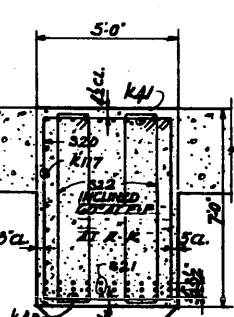
SECTION C-C



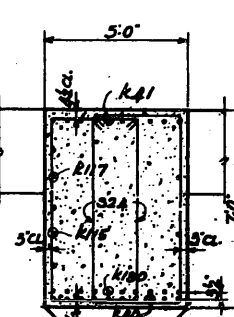
SECTION D-D



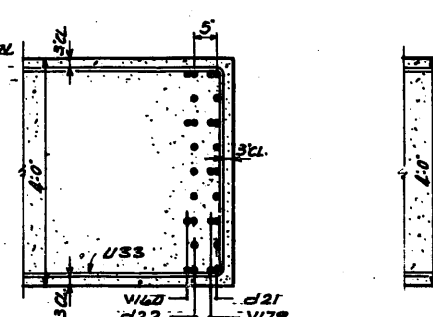
SECTION E-E



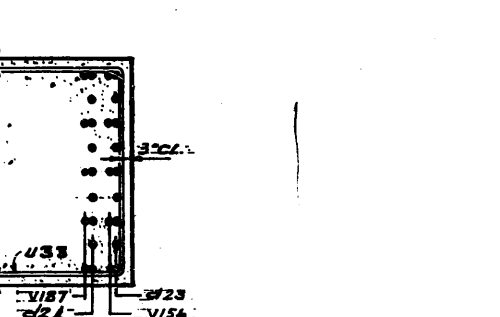
SECTION F-F
SCALE: 3/8"=1'-0"



SECTION G-G

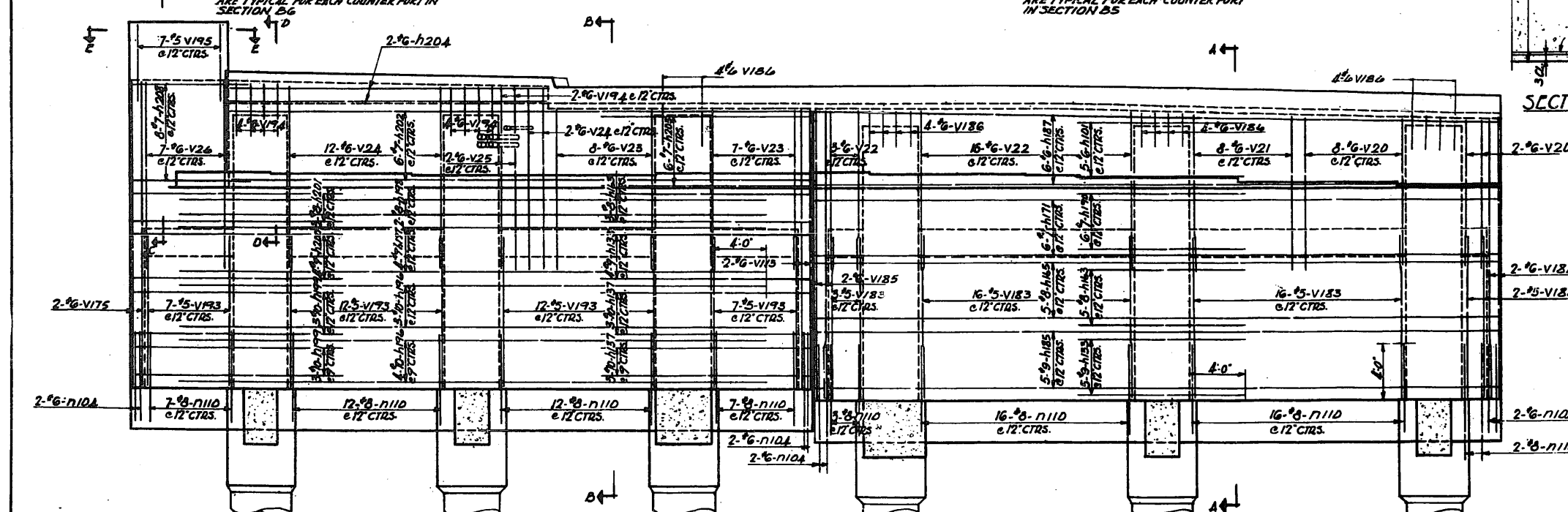


SECTION H-H



SECTION J-J

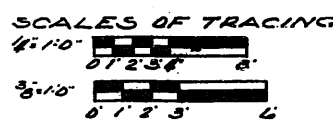
NOTE: FOR TOP PLAN, FOOTING PLAN AND FRONT ELEVATION SEE SHEET F14



SECTION B5

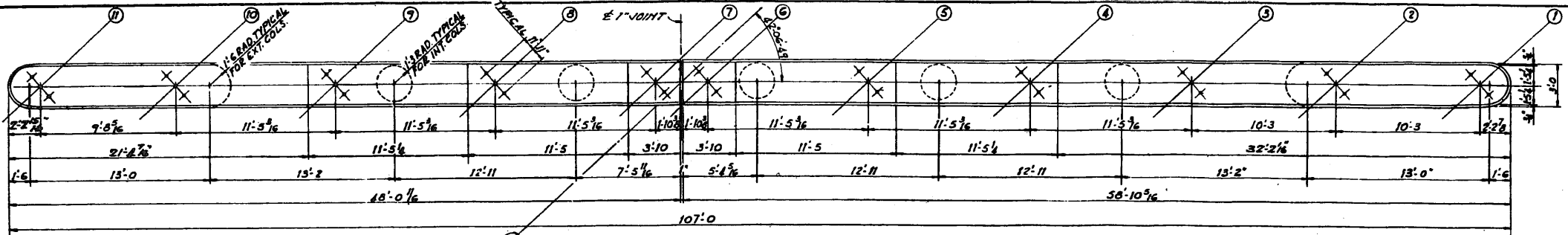
FRONT ELEVATION
SHOWING REINFORCEMENT IN FACE
SCALE: 1/4"=1'-0"

SECTION B6

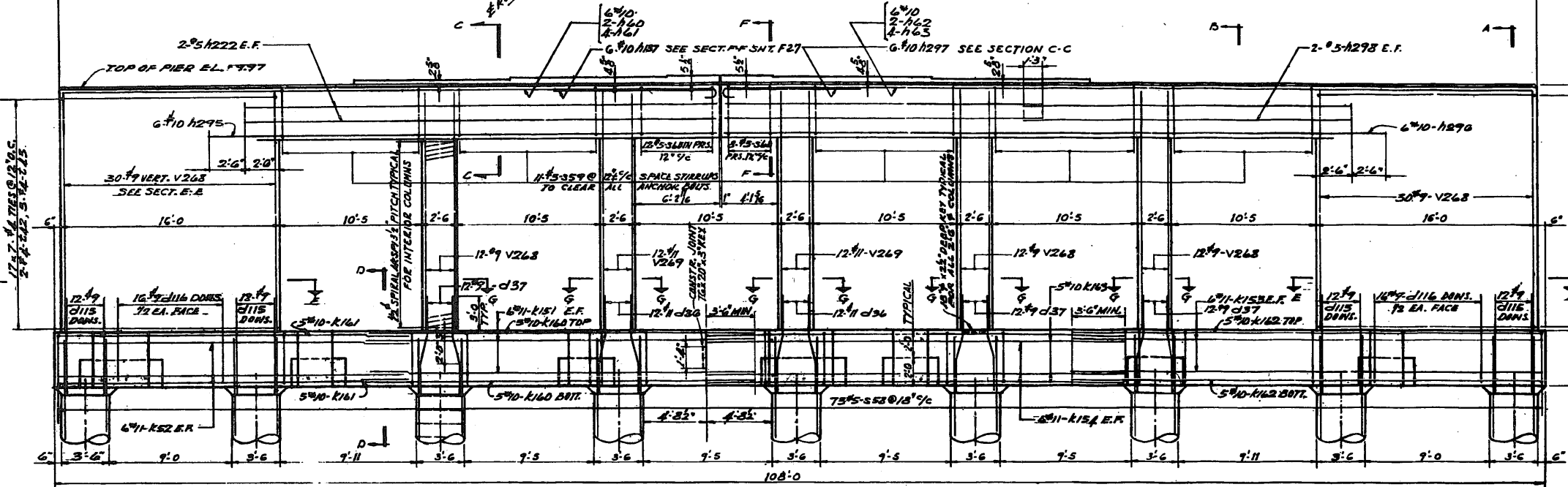


CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 08024-2

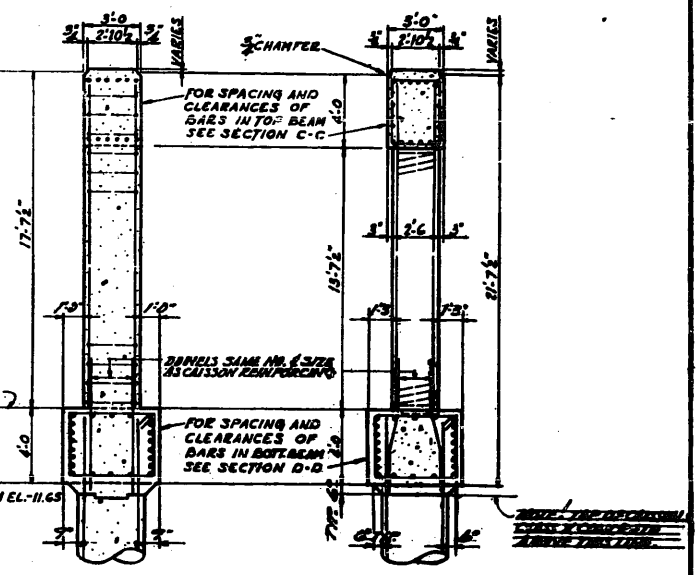
HUBBARD ST. ABUTMENT SECTIONS B5, B6
ALFRED BENSCH & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. 115 OF 160 SHEETS DATE: JAN 7-1957



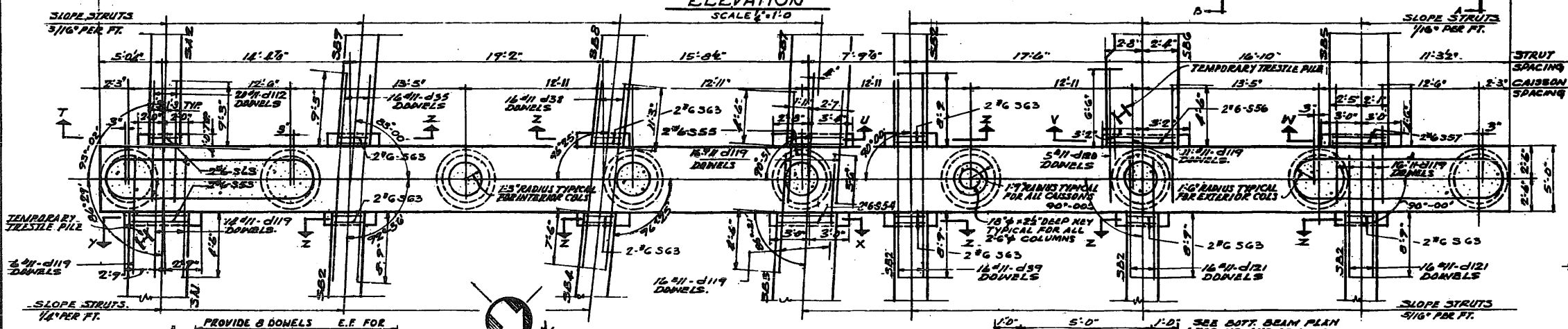
TOP PLAN



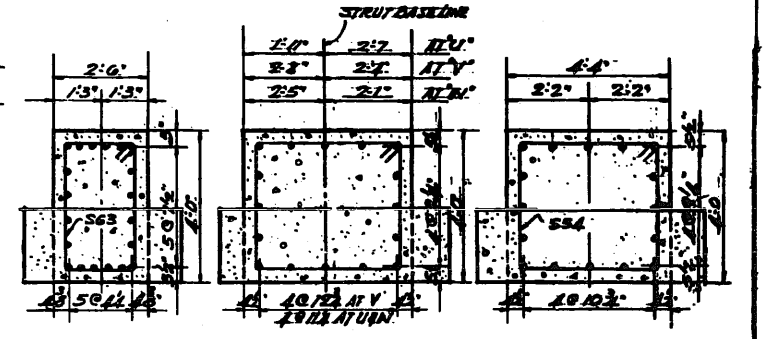
ELEVATION



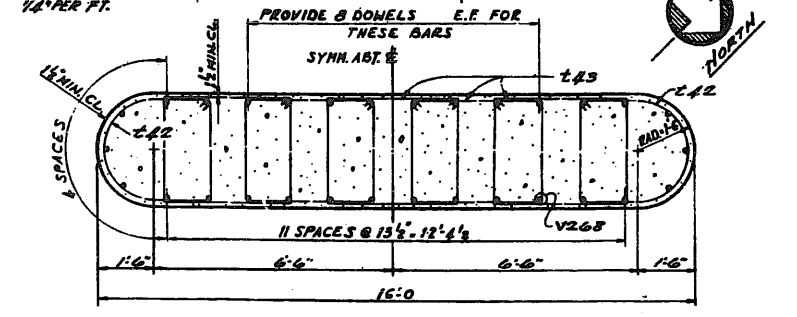
SECTION A-A SECTION B-B



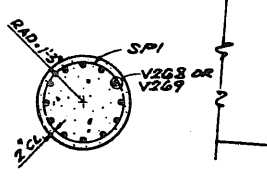
BOTTOM BEAM PLAN



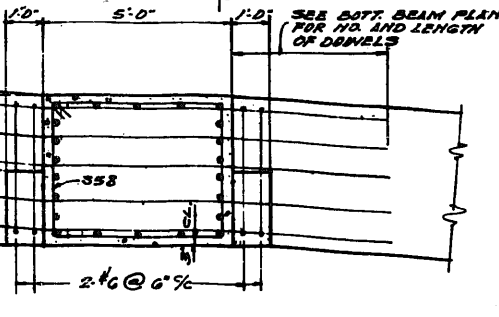
SECTION T-T SECTION U-U, V-V, W-W SECTION X-X



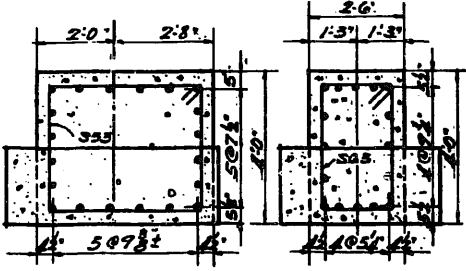
TYPICAL EXTERIOR COLUMN CROSS SECTION SECTION E-E



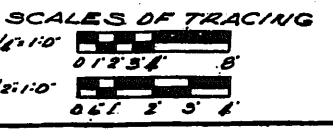
TYPICAL INTERIOR COLUMN CROSS SECTION SECTION G-G



SECTION D-D



SECTION Y-Y SECTION Z-Z



NOTE:
FOR SECTIONS C-C & F-F SEE SHEET F-27

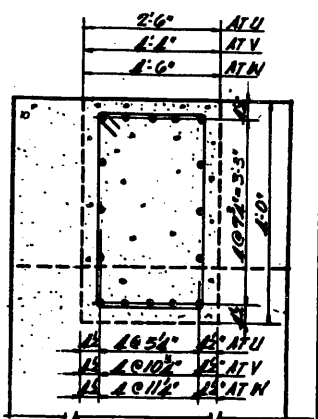
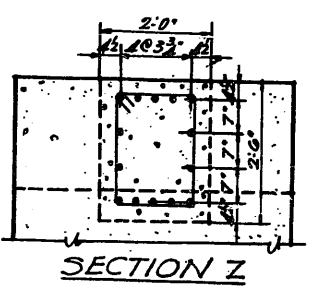
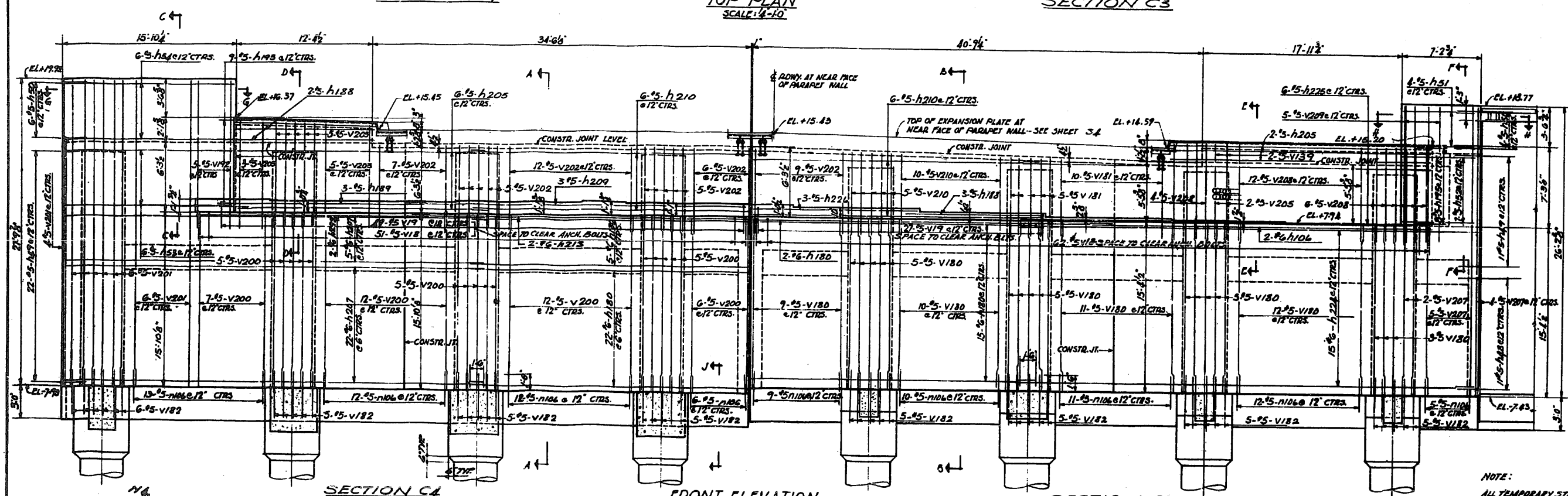
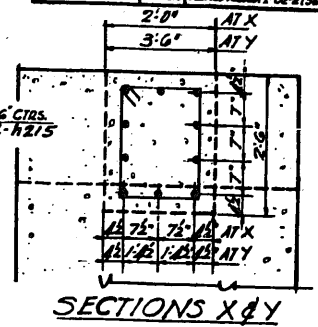
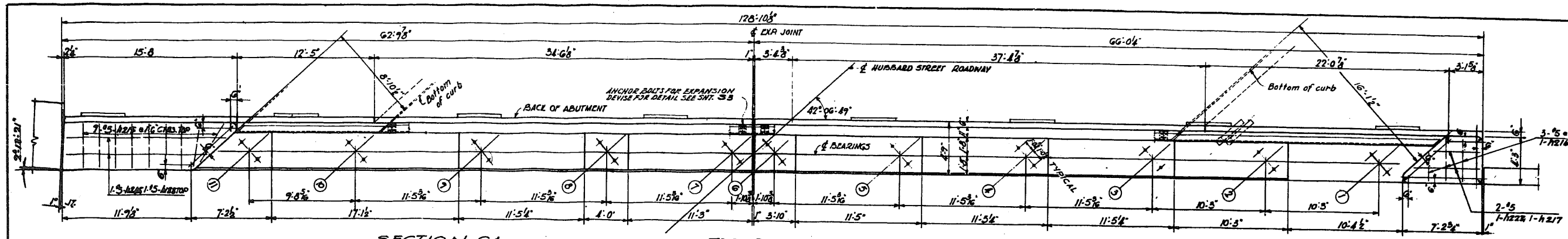
ITEM	DESCRIPTION	UNIT	QUANTITY
30	CLASS X CONCR.	CY	1735.2
31	REINFR. BARS	281	50459

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0804-2

HUBBARD ST. PIER

ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
311 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. 24 OF 160 SHEETS DATE JAN 9-1957

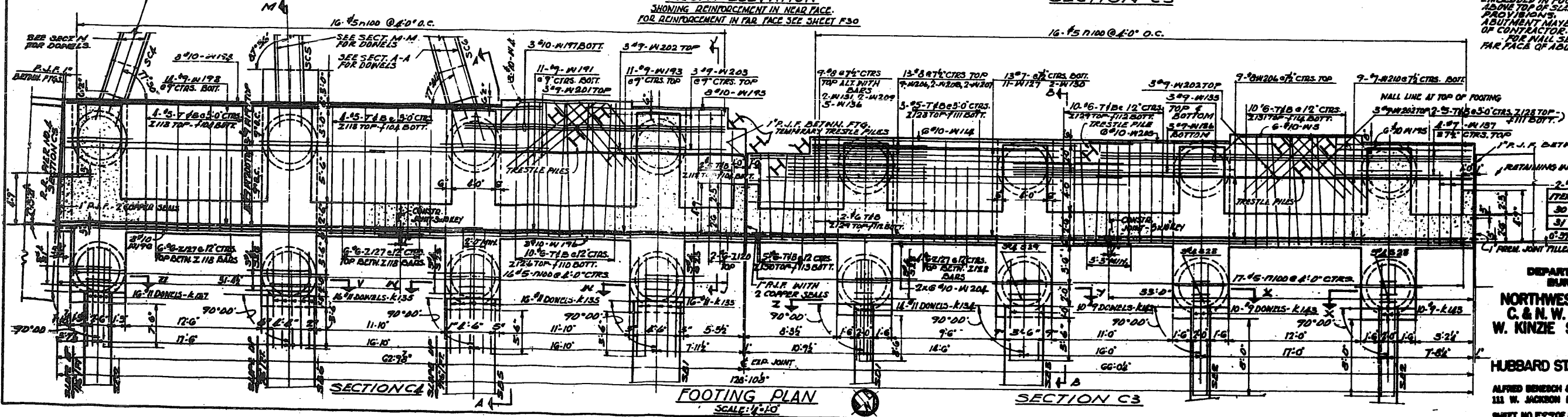
PROJECT NO.	SEC.	COUNTY	TOTAL SHEETS
FA 2 20243	COOK	160	29
DATE	BY		
1-12-27	1-12-27		
FILE NO.	DESIGNER	CHECKER	DATE
1-12-27	1-12-27	1-12-27	1-12-27



NOTE:
 ALL TEMPORARY STEEL TRUSS PILES WHICH ARE EMBEDDED IN FOOTING SHALL BE QUANTITY OFF ABOVE TOP OF SLAB AND TREATED AS REQUIRED BY SPECIAL PROVISIONS. ALL OTHER PILES BEYOND ABUTMENT MAY BE PULLED OR BURNT OFF AT OPTION OF CONTRACTOR.
 FOR WALL SECTIONS AND REINFORCING IN FAR FACE OF ABUTMENT SEE SHEET F 50

SCALES OF TRACING

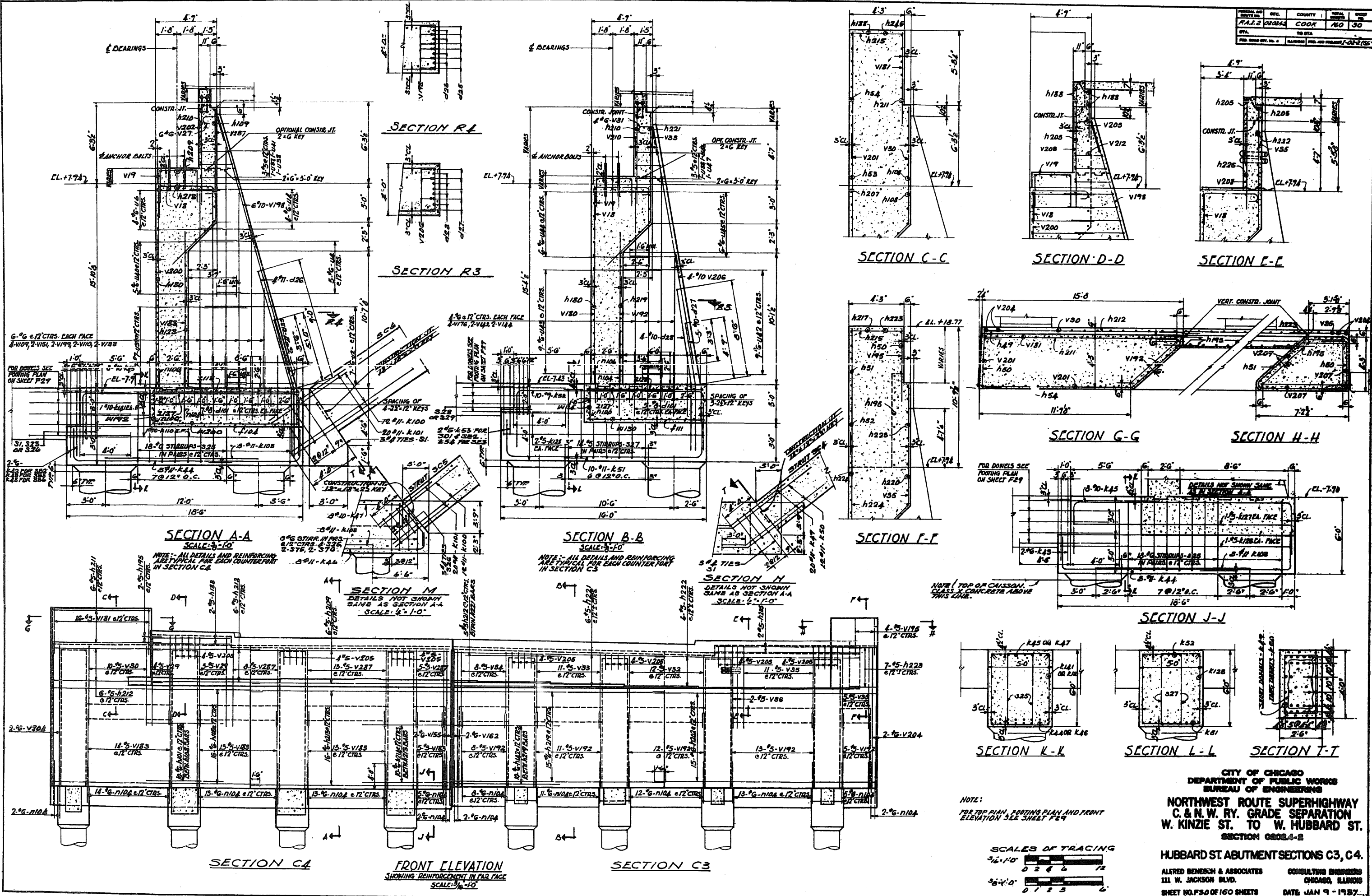
1/4" = 1'-0"	0 1 2 3 4
1/2" = 1'-0"	0 1 2 3 4



ITEM	DESCRIPTION	UNIT	QUANTITY
30	CLAS X CONC	CUBIC	681.5
31	REINR BARS	LOG	96.130

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 C. & N.W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0804-2
 HUBBARD ST ABUTMENT SECTIONS C3, C4.
 ALFRED BENECH & ASSOCIATES
 111 W. JACKSON BLVD.
 CHICAGO, ILLINOIS
 SHEET NO. F27 OF 160 SHEETS
 DATE: JAN 7 - 1957

DESIGNED BY	REC.	COUNTY	TOTAL SHEETS
R.A.F.2	02024	COOK	160
DATE	BY	NO.	30
FEB. 1937	W.B.	160	
FILE NO.	PROJECT	1-024-2 (25)	



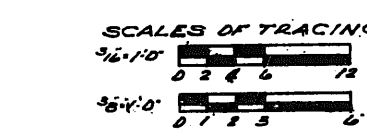
CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

**NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 02024-2**

HUBBARD ST. ABUTMENT SECTIONS C3, C4.

ALFRED BENECH & ASSOCIATES
111 W. JACKSON BLVD.
CHICAGO, ILLINOIS

CONSULTING ENGINEERS
DATE JAN 9 - 1937



REINFORCEMENT BAR LISTS

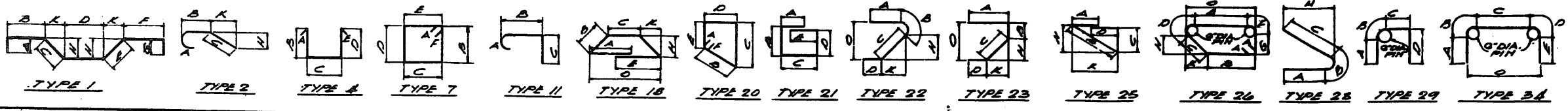
SHEET NO. 167 OF 160 SHEETS
DATE: JAN 9 - 1957

NO. OF PIES		BAR LENGTH		BAR MARK		SECTION CONT.																					
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z		
15	7	15	0																								

NO. OF PIES		BAR LENGTH		BAR MARK		SECTION CONT.																					
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z		
15	7	15	0																								

NOTE: BENDS ARE TO BE MADE IN ACCORDANCE WITH ACT MANUAL OF STRUCTURAL PRACTICE. ALL DIMENSIONS GIVEN ARE OUT TO OUT.

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 02024-2
REINFORCEMENT BAR LISTS



ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. 167 OF 160 SHEETS DATE: JAN 9 - 1957

REINFORCEMENT BAR LISTS

PROJECT NO. REC. COUNTY TOTAL SHEETS SHEET NO. FAIZ 0204 COOK 160 58

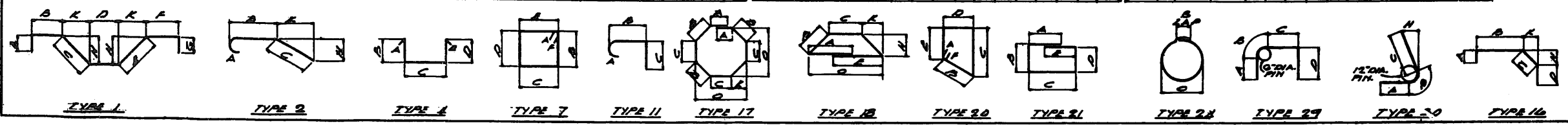
Table with columns: NO OF P.C.S., BAR LENGTH, BAR MARK, TYPE, A, B, C, D, E, F, G, H, K, O, P, W. Section: GREEN ST. FAULT SECT. 2 CONTINUED.

Table with columns: NO OF P.C.S., BAR LENGTH, BAR MARK, TYPE, A, B, C, D, E, F, G, H, K, O, P, W. Section: GREEN ST. FAULT SECT. 2 CONTINUED.

Table with columns: NO OF P.C.S., BAR LENGTH, BAR MARK, TYPE, A, B, C, D, E, F, G, H, K, O, P, W. Section: F.A. FIRE NO. 1 SECT. 2 CONT.

Table with columns: NO OF P.C.S., BAR LENGTH, BAR MARK, TYPE, A, B, C, D, E, F, G, H, K, O, P, W. Section: RETAINING WALL SECT. 21 CONT.

Table with columns: NO OF P.C.S., BAR LENGTH, BAR MARK, TYPE, A, B, C, D, E, F, G, H, K, O, P, W. Section: RETAINING WALL SECT. 22 CONT.



CITY OF CHICAGO DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING NORTHWEST ROUTE SUPERHIGHWAY C. & N.W. RY. GRADE SEPARATION W. KINZIE ST. TO W HUBBARD ST. SECTION 0804-2 REINFORCEMENT BAR LISTS ALFRED BONDICH & ASSOCIATES CONSULTING ENGINEERS 111 W. JACKSON BLVD. CHICAGO, ILLINOIS SHEET NO. 58 OF 160 SHEETS DATE JAN. 9, 1937.

REINFORCEMENT BAR LISTS

REC. COUNTY MAIL
 F.A.I. 020202A COOK '60 60
 STA. TO BIA.
 PBL 1000 PBL 20 1-020(60)

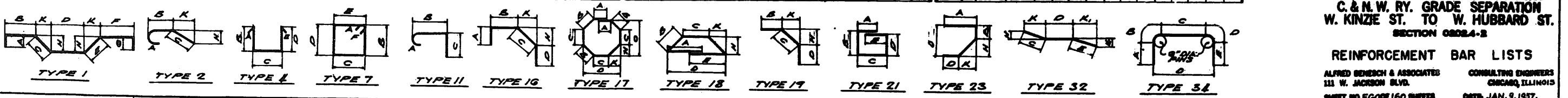
NO. OF PIES	BAR SIZE	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM
30	11"	A10												
60	9"	A10												
32	12"	A10												
18	9"	A10												
10	12"	A10												

NO. OF PIES	BAR SIZE	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM
2	12"	A12												
2	12"	A12												
2	12"	A12												
2	12"	A12												

NO. OF PIES	BAR SIZE	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM
18	9"	A10												
24	7"	U10												
6	17"	A52												
2	13"	A53												

NO. OF PIES	BAR SIZE	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM
10	10"	A11												
20	11"	A11												
10	10"	A11												
28	7"	U10												

NO. OF PIES	BAR SIZE	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM
24	10"	A11												
20	11"	A11												
10	10"	A11												
30	7"	U10												

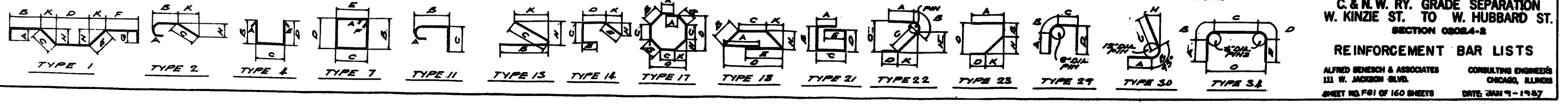


CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0204-B
REINFORCEMENT BAR LISTS
 ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
 111 W. JACKSON BLVD. CHICAGO, ILLINOIS
 SHEET NO. F.G.O.P. 160 SHEETS DATE, JAN. 9, 1957.

REINFORCEMENT BAR LISTS

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 C. & N.W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 08024-2
 REINFORCEMENT BAR LISTS
 ALFRED BENECH & ASSOCIATES
 111 W. JACKSON BLVD.
 CHICAGO, ILLINOIS
 SHEET NO. F01 OF 160 SHEETS DATE JAN 7-1967

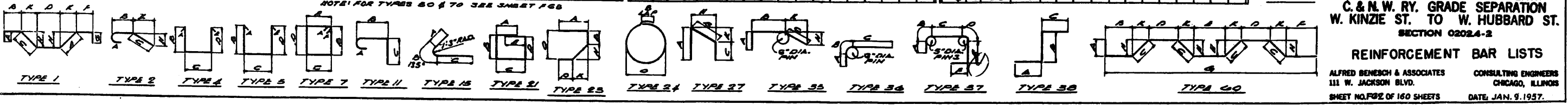
NO. OF BARS												NO. OF BARS												NO. OF BARS												NO. OF BARS																																
NO.	BAR	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM	NO.	BAR	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM	NO.	BAR	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM	NO.	BAR	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM	
10	11	15	110	A130													11	12	16	115	A131													12	13	17	120	A132													13	14	18	125	A133													



REINFORCEMENT BAR LISTS

SHEET NO.	SHEET TOTAL	COUNT	TOTAL SHEETS
160	162	160	162

NO.	BAR	MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AM
ABUTMENT SECTIONS														
STRAIGHT BARS														
18	11/16	A100												
20	11/16	A101												
RETAINING WALL														
STRAIGHT BARS														
17	11/16	A55												
18	11/16	A56												
CURB AND GUTTER														
STRAIGHT BARS														
19	11/16	A57												
20	11/16	A58												
SIDEWALK														
STRAIGHT BARS														
21	11/16	A59												
22	11/16	A60												
DRIVE SIDEWALK														
STRAIGHT BARS														
23	11/16	A61												
24	11/16	A62												
HUBBARD STREET BRIDGE SLAB														
STRAIGHT BARS														
25	11/16	A63												
26	11/16	A64												
CURB AND GUTTER														
STRAIGHT BARS														
27	11/16	A65												
28	11/16	A66												
SIDEWALK														
STRAIGHT BARS														
29	11/16	A67												
30	11/16	A68												
DRIVE SIDEWALK														
STRAIGHT BARS														
31	11/16	A69												
32	11/16	A70												



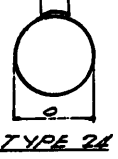
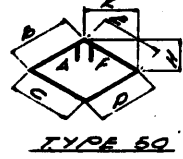
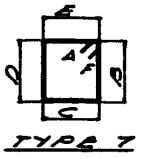
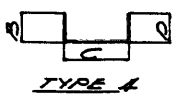
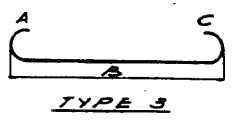
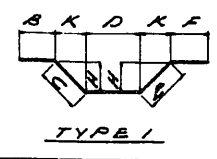
CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0202.4-2
REINFORCEMENT BAR LISTS
 ALFRED BENECH & ASSOCIATES
 111 W. JACKSON BLVD.
 CHICAGO, ILLINOIS
 SHEET NO. 162 OF 160 SHEETS
 DATE: JAN. 9, 1957.

R E I N F O R C E M E N T B A R L I S T S

FEDERAL AID ROUTE NO.	BEC	COUNTY	TOTAL SHEETS	SHEET NO.
FA12 2024		COOK	160	64
STA.	TO STA.			
P.R. ROAD BY N.E.	ALLIANCE	FED. AID PROJECT 02-2 (58)		

NO. OF PCS	BAR NO.	SIZE	SHAPE	MARK	TYPE	A	B	C	D	E	F	G	H	K	O	MIN
20	11	12	L146		STRAIGHT											
10	12	12	L147		BENT											
20	13	12	L148		STRAIGHT											
20	14	12	L149		BENT											
20	15	12	L150		STRAIGHT											

NO. OF PCS	BAR NO.	SIZE	SHAPE	MARK	TYPE	A	B	C	D	E	F	G	H	K	O	MIN
3	16	12	L151		BENT											
3	17	12	L152		BENT											
10	18	12	L153		STRAIGHT											
10	19	12	L154		BENT											
10	20	12	L155		BENT											



CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING

NORTHWEST ROUTE SUPERHIGHWAY
 C. & N.W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 02024-2

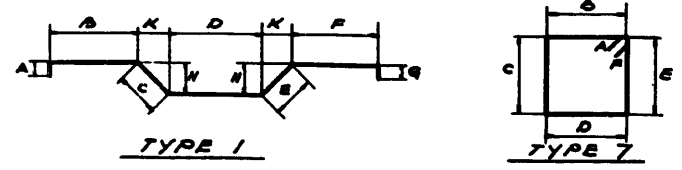
REINFORCEMENT BAR LISTS
 ALFRED BENSCH & ASSOCIATES
 111 W. JACKSON BLVD. CHICAGO, ILLINOIS
 SHEET NO. F440F160 SHEETS DATE: JAN 9 - 1957

REINFORCEMENT BAR LISTS

PROJECT NO.	SEC.	COUNTY	SHEET NO.
FA 1120244		COOK	160
DATE	TO DATE		
FEB 28 1957			

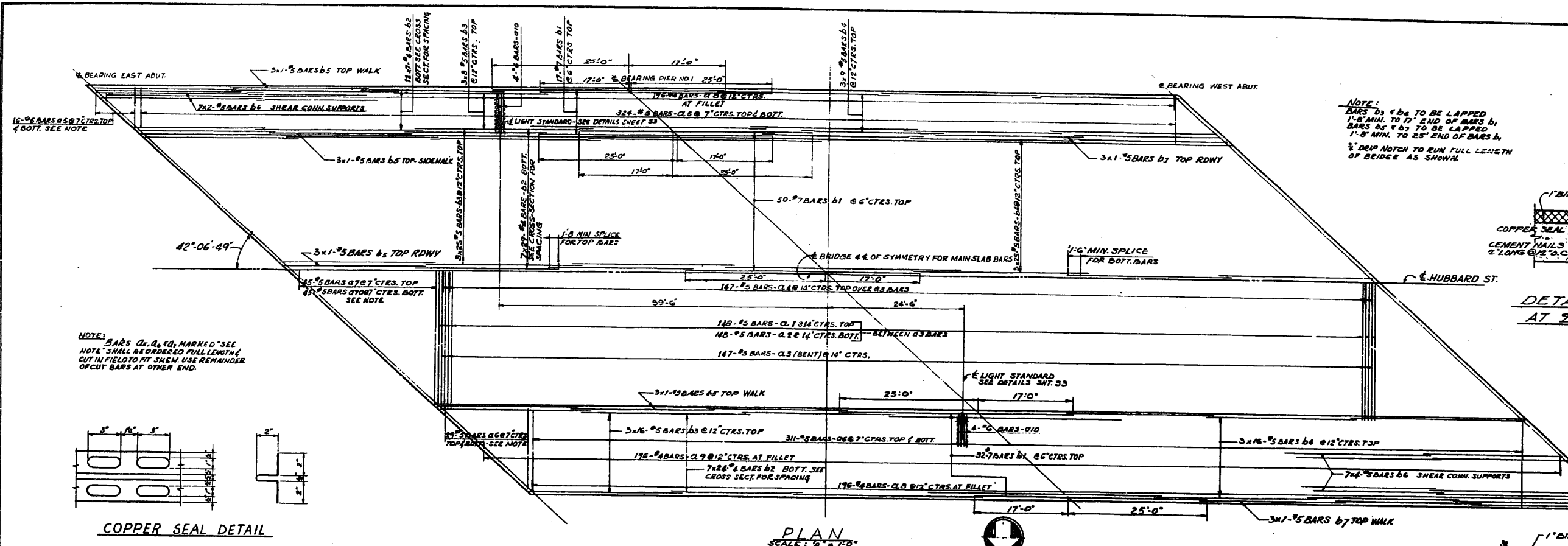
NO. OF PCS	BAR SIZE	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AN
ELECTRICAL MANHOLE AT ABOUT SECT. AL														
STRAIGHT														
20	#6	7:3	A350											
3	#6	5:4	A351											
2	#6	5:0	A352											
4	#6	7:0	A353											
12	#6	15:0	A354											
10	#5	7:3	A355											
3	#5	5:6	A356											
28	#5	5:0	A357											
4	#5	5:0	A358											
12	#4	8:0	A359											
12	#4	7:6	A360											
20	#4	7:3	A361											
2	#4	5:9	A362											
8	#4	4:9	A363											
2	#4	3:6	A364											
6	#4	9:0	A365											
8	#4	4:0	A366											
20	#4	6:6	A367											
BENT														
2	#6	2:0	A368	1	2:0	2:0								
2	#6	2:0	A369	1	2:0	2:0						1/5	1/5	
24	#5	5:0	A370	1	2:4	2:4								
6	#4	4:0	A371	1	2:0	2:0								
6	#4	4:0	A372	1	2:0	2:0						1/5	1/5	
20	#4	3:0	A373	1	2:4	2:4								
26	#5	5:0	A374	7	3	3	1-7	8	1-7	3				
18	#5	7:2	A375	7	3	3	3-3	8	3-3	3				
ELECTRICAL MANHOLE AT MAIN SECT. AL														
STRAIGHT														
4	#7	19:9	A376											
4	#7	14:3	A377											
16	#6	7:3	A378											
12	#6	5:0	A379											
4	#6	7:6	A380											
2	#6	3:9	A381											
6	#5	7:3	A382											
20	#5	2:0	A383											
8	#5	5:0	A384											
16	#5	3:0	A385											
36	#4	7:6	A386											
20	#4	7:3	A387											
4	#4	6:6	A388											
4	#4	5:9	A389											
8	#4	4:9	A390											
22	#4	6:6	A391											
BENT														
4	#6	4:0	A392	1	2:0	2:0								
22	#5	5:0	A393	1	2:4	2:4								
12	#4	4:0	A394	1	2:0	2:0								
16	#4	5:0	A395	1	2:4	2:4								
27	#5	2:6	A396	7	3	3	8	8	8	8	3			

NO. OF PCS	BAR SIZE	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	AN
ELECTRICAL MANHOLE AT ABOUT SECT. DJ														
STRAIGHT														
2	#7	19:6	A397											
2	#7	6:9	A398											
2	#7	6:3	A399											
8	#7	13:5	A400											
24	#6	5:0	A401											
2	#6	19:3	A402											
12	#6	6:9	A403											
8	#6	3:9	A404											
10	#6	6:3	A405											
32	#5	4:0	A406											
8	#5	5:6	A407											
28	#5	5:0	A408											
10	#5	6:9	A409											
6	#5	3:9	A410											
10	#5	6:5	A411											
6	#4	7:0	A412											
18	#4	5:9	A413											
18	#4	4:0	A414											
20	#4	19:6	A415											
6	#4	13:6	A416											
6	#4	9:3	A417											
37	#4	6:9	A418											
8	#4	4:6	A419											
70	#4	6:0	A420											
BENT														
2	#7	6:0	A421	1	2:4	2:4								
4	#7	19:3	A422	1	0:0	0:0								
2	#6	2:0	A423	1	2:0	2:0								
38	#5	3:0	A424	1	2:4	2:4								
12	#4	4:0	A425	1	2:0	2:0								
32	#4	5:0	A426	1	2:4	2:4								
57	#4	2:6	A427	1	3	3	8	8	8	8	3			

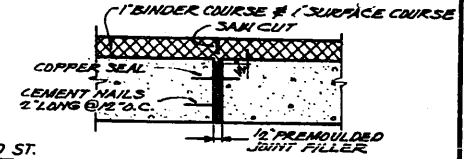


CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0808.4-2
REINFORCEMENT BAR LISTS
ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. 163 OF 160 SHEETS DATE: JAN 9 - 1957

PROJECT NO.	B.C.	COUNTY	TOTAL SHEETS	SHEET NO.
1412	COOK	180	108	108
DATE	TO STA.			
ILL. ENG. PROF. REG. NO. 1042				

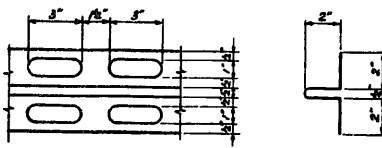


NOTE:
BARS b1 & b2 TO BE LAPPED
1'-8" MIN. TO END OF BARS b1
BARS b5 & b6 TO BE LAPPED
1'-8" MIN. TO 25' END OF BARS b1
3" DEEP NOTCH TO RUN FULL LENGTH
OF BRIDGE AS SHOWN.



DETAIL OF JOINT AT E OF BRIDGE

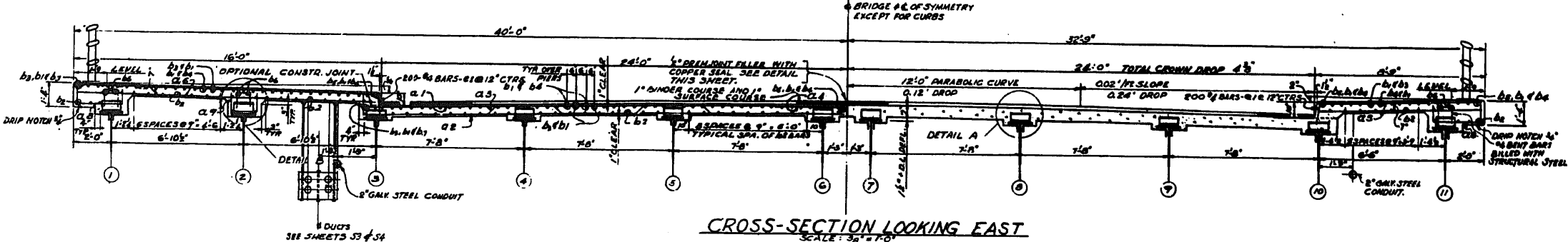
NOTE: BARS a, b, c, d, MARKED * SEE NOTE * SHALL BE ORDERED FULL LENGTH CUT IN FIELD TO FIT SHOWN. USE REMAINDER OF CUT BARS AT OTHER END.



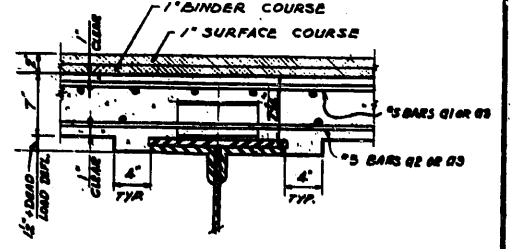
COPPER SEAL DETAIL

NOTE: COPPER SEAL SHALL BE PERFORATED AND SHALL BE 16 OZ. COLD ROLLED ANNEALED COPPER. SPICES SHALL BE SOLDERED OR BRAZED. THE COST OF FURNISHING AND INSTALLING COPPER SEAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS "X" CONCRETE.

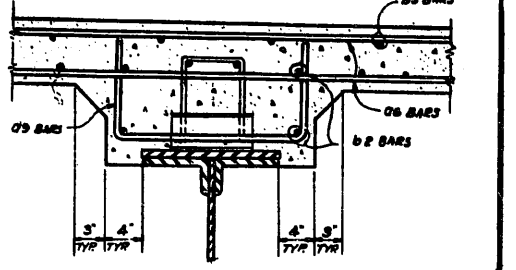
PLAN SCALE: 1/8" = 1'-0"



CROSS-SECTION LOOKING EAST SCALE: 3/8" = 1'-0"



DETAIL A SCALE: 1/8" = 1'-0"



DETAIL B SCALE: 1/8" = 1'-0"

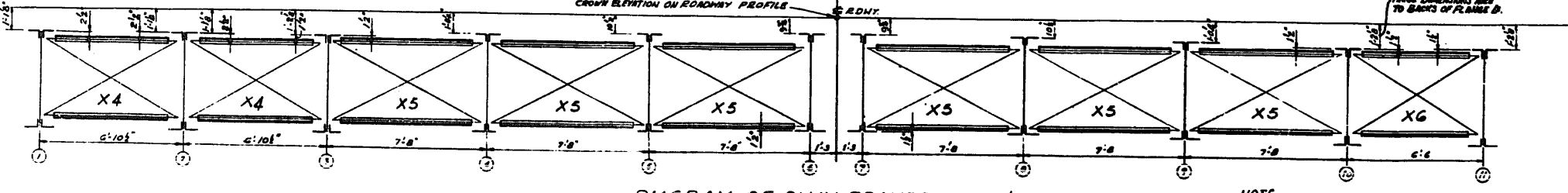
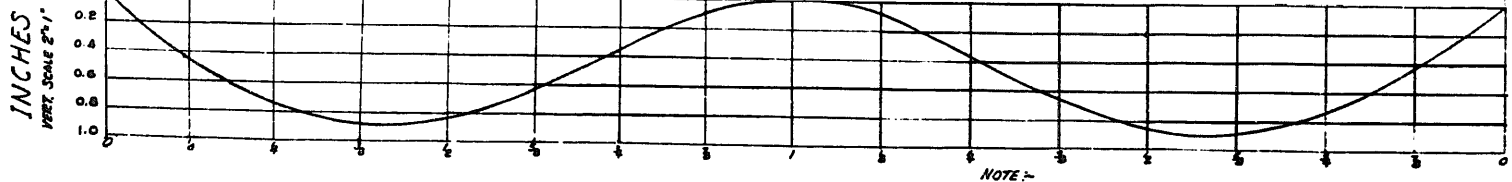


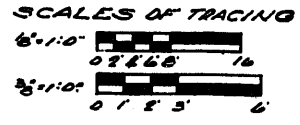
DIAGRAM OF SWAY FRAMES X4, X5, & X6

NOTE: ABOVE DIMENSIONS ARE FROM DE. OF FL. IS TO THE DE. OF SWAY FRAME. U. SEE SHEET 30 FOR DETAIL OF SWAY FRAMES X5. SWAY FRAMES X6, & X6 ARE SIMILAR TO X5.



DEAD LOAD DEFLECTION DIAGRAM

NOTE: DEAD LOAD DEFLECTIONS ARE SHOWN ON GRAPH FOR GIRDERS 3, 4, 5, 6, 7, 8, 9, 10. FOR OTHER GIRDERS OBTAIN DEFLECTION BY MULTIPLYING VALUE FROM GRAPH BY THE FOLLOWING:
FOR GIRDERS 11 & 12 1/3
FOR GIRDERS 13 & 14 0.85



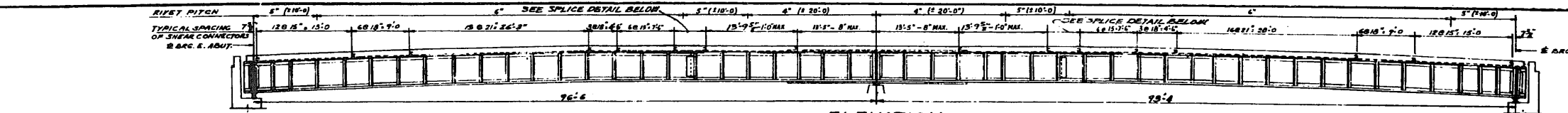
ITEM	DESCRIPTION	UNIT	QUANTITY
10	CURB X CHANCE	SQ. FT.	266.5
11	REINFR. BARS	LBS.	2790.6

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.

SECTION 0804-2
HUBBARD ST. BRIDGE
DECK REINFORCEMENT PLAN
ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. 91 OF 160 SHEETS DATE JAN 9-1957

PROJECT NO.	DATE	COUNTY	SHEET NO.	TOTAL SHEETS
FAIR	1944	COOK	160	109
SHEET NO. 92 OF 160 SHEETS				

300

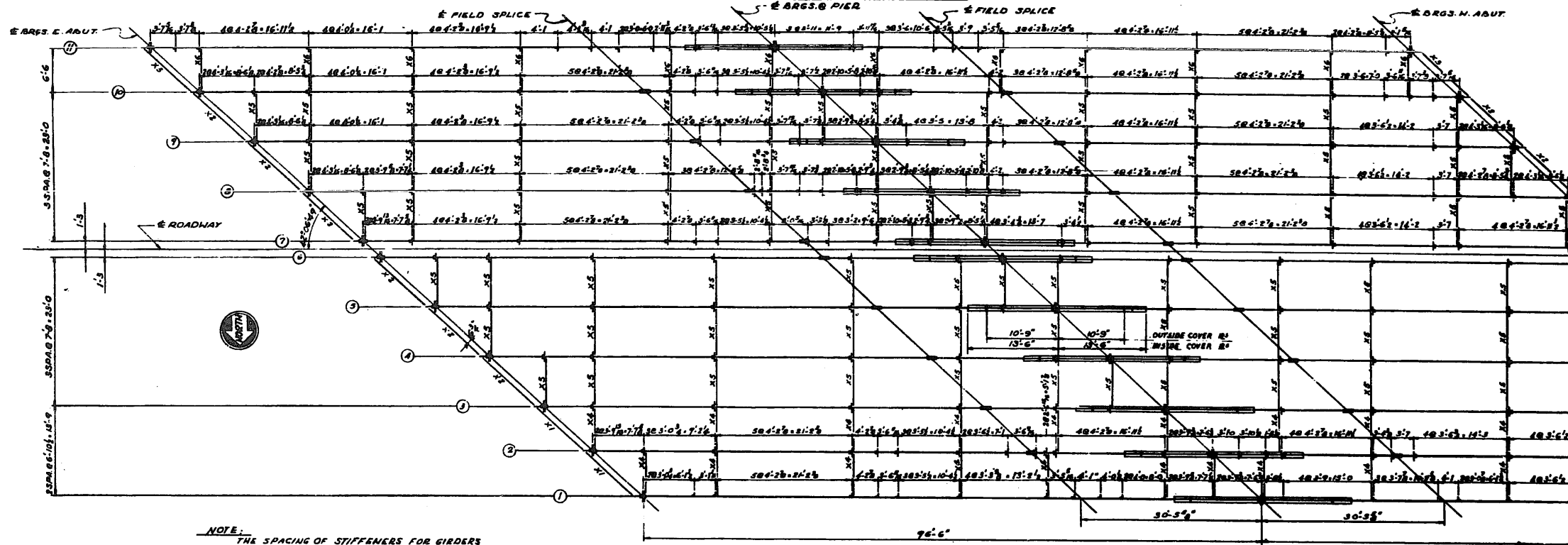


GIRDER ELEVATIONS & SHIM THICKNESSES

ALL ELEVATIONS ARE GIVEN TO THE BACK OF TOP FLANGE ANGLES.

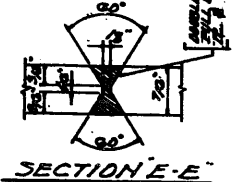
GIRDER NO.	1	2	3	4	5	6	7	8	9	10	11
BARS. C. ABUT.	14819	14819	14819	14819	14819	14819	14819	14819	14819	14819	14819
BARS. C. PIER	15045	15045	15045	15045	15045	15045	15045	15045	15045	15045	15045
BARS. N. ABUT.	15271	15271	15271	15271	15271	15271	15271	15271	15271	15271	15271
2" DIA. SPIER	3	1	3	-	-	-	-	-	-	-	3

GIRDERS SHALL BE FABRICATED TO FOLLOW CURVATURE OF VERTICAL CURVATURE OF ROADWAY. DEAD LOAD DEFLECTION OF GIRDERS SHALL BE TAKEN UP WITH CONCRETE FILLETS.



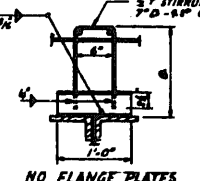
R. GIRDER DATA (ALL GIRDERS)

2" X 4" X 1/4" C-CHANNELS
 TOP FLANGE: 16" X 1/4"
 BOTTOM FLANGE: 16" X 1/4"
 TOP FLANGE: 3" X 1/4" X 3/16" OUTSIDE
 COVER PLATE: 3" X 1/4" X 3/16" INSIDE
 OUTSIDE FLANGE: 17" X 1/4" X 3/16" OUTSIDE
 COVER PLATE: 3" X 1/4" X 3/16" INSIDE

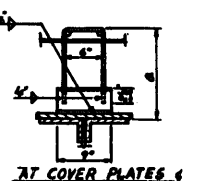


NOTE: THE SPACING OF STIFFENERS FOR GIRDERS 3, 4, 5, 6 IS IDENTICAL TO 7, 8, 9, 10 RESPECTIVELY.

GIRDERS 1, 2, 3, 4, 5, 6 CRIMPED EXCEPT AT SWAY FRAMES
 1/2" X 3/4" X 1/4" AT SWAY FRAME CONNECTIONS
 GIRDERS 7, 8, 9, 10, 11 CRIMPED EXCEPT AT SWAY FRAMES
 1/2" X 3/4" X 1/4" AT SWAY FRAME CONNECTIONS
 1" X 3/4" X 1/4" AT SWAY FRAME CONNECTIONS
 1" X 3/4" X 1/4" AT SWAY FRAME CONNECTIONS

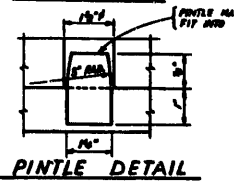


NOTE: SIZES OF SHEAR CONNECTORS:
 GIRDERS 1, 2, 3, 4, 5, 6 WITH 2" X 3/4" X 1/4" STIRRUPS
 GIRDERS 7, 8, 9, 10 WITH 2" X 3/4" X 1/4" STIRRUPS
 GIRDERS 11 WITH 2" X 3/4" X 1/4" STIRRUPS
 2" X 3/4" X 1/4" STIRRUPS WITH COVER PLATES
 2" X 3/4" X 1/4" STIRRUPS WITH COVER PLATES



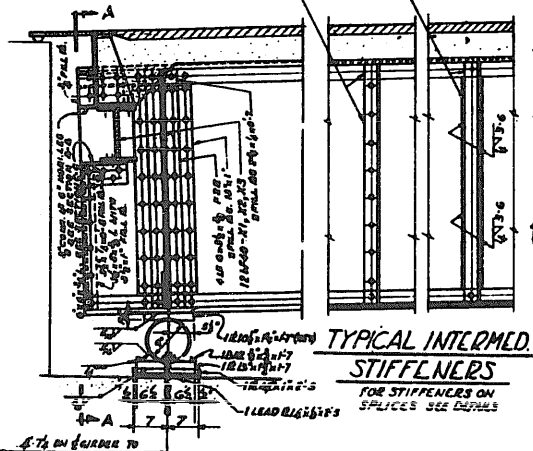
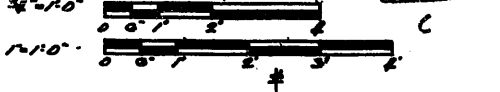
DETAILS OF SHEAR CONNECTORS
 GIRDERS 1, 2 & 11 SHOWN

FRAMING PLAN
 SCALE: 1/8"=1'-0"

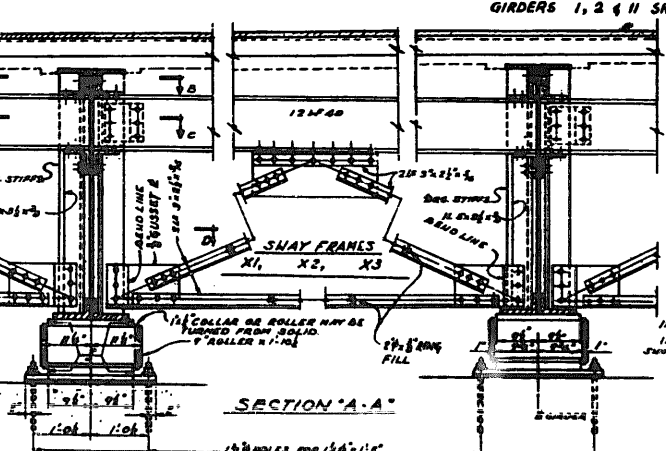


PINTLE DETAIL

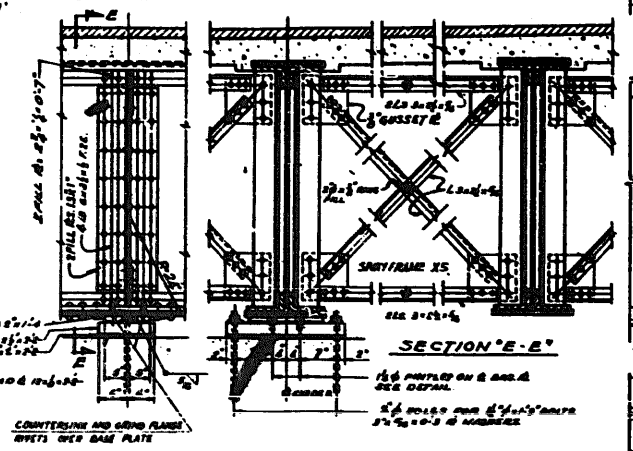
SCALES OF TRACING



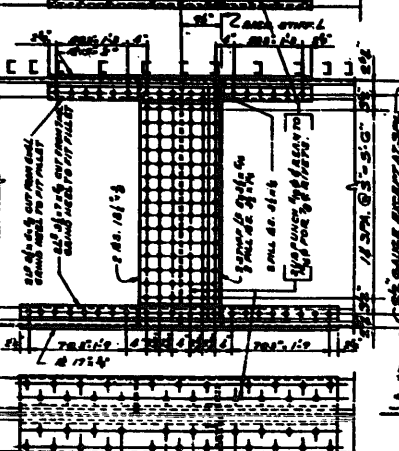
TYPICAL INTERMEDIATE STIFFENERS
 FOR STIFFENERS ON SPICES SEE DETAILS



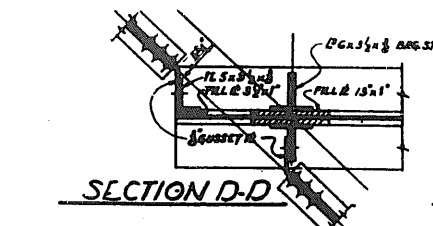
SWAY FRAMES X1, X2, X3
 FRAMES X1 & X3 SIMILAR
 1/2" X 3/4" X 1/4" ARE STIFFENERS
 1/2" X 3/4" X 1/4" ARE STIFFENERS
 1/2" X 3/4" X 1/4" ARE STIFFENERS



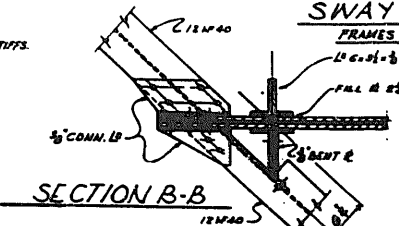
SWAY FRAME X5



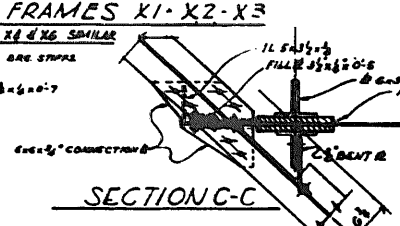
SPICE DETAIL FOR OUTSIDE GIRDERS



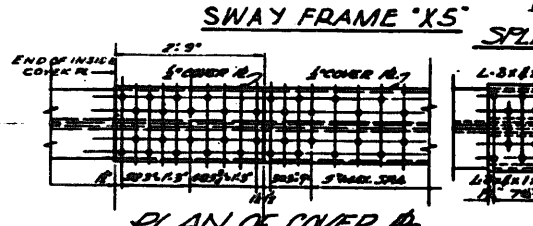
SECTION D-D



SECTION B-B



SECTION C-C



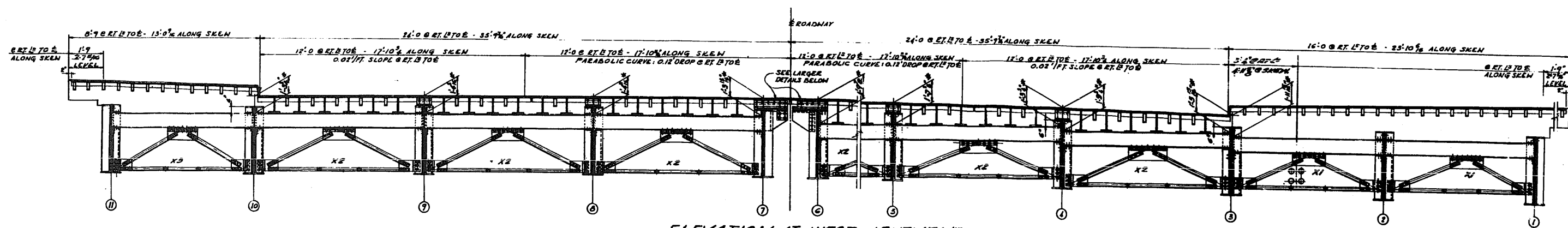
PLAN OF COVER PLATE



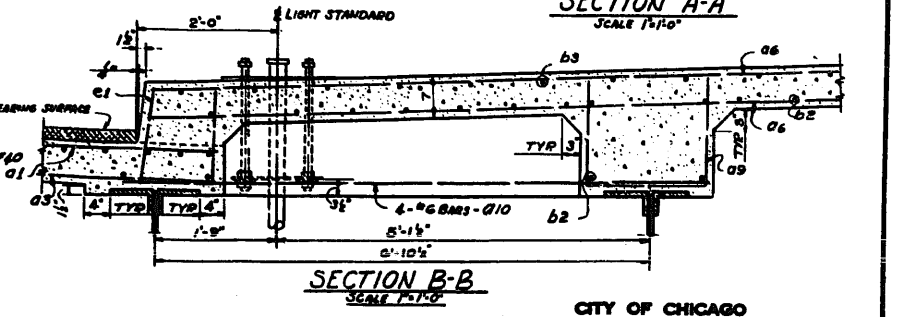
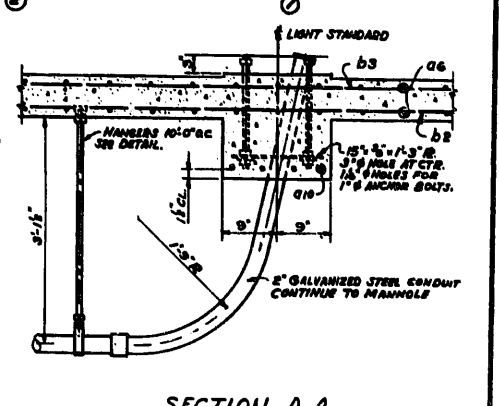
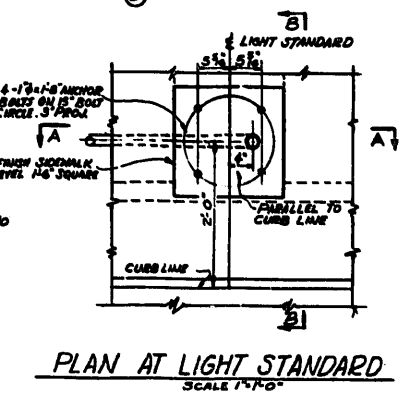
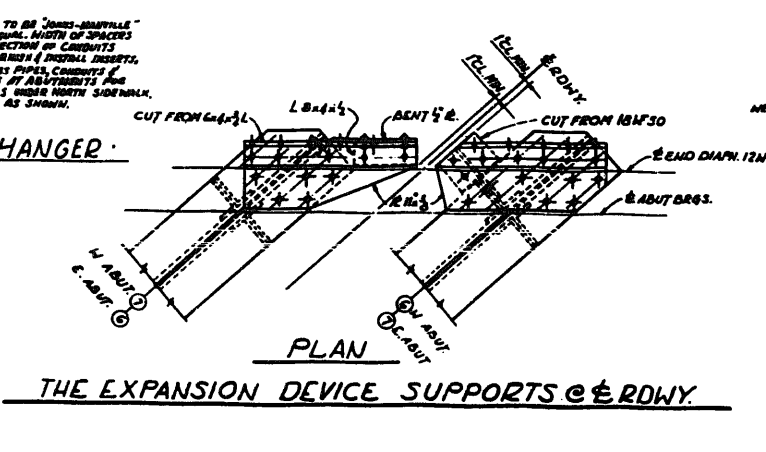
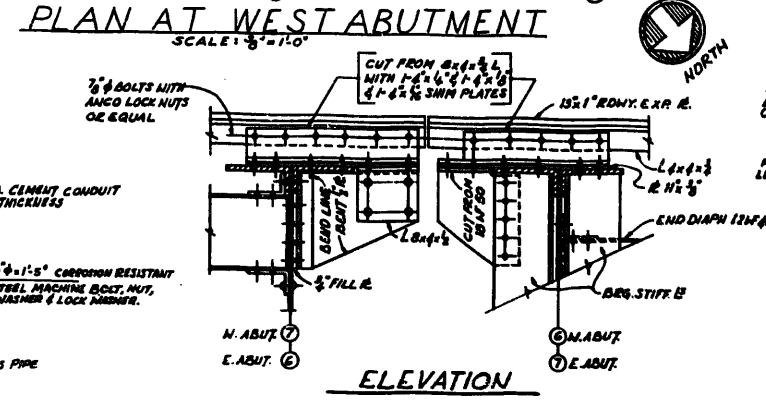
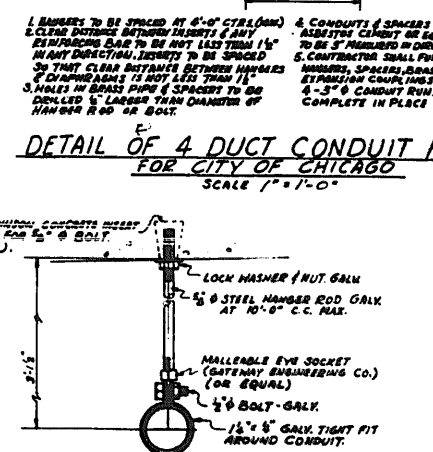
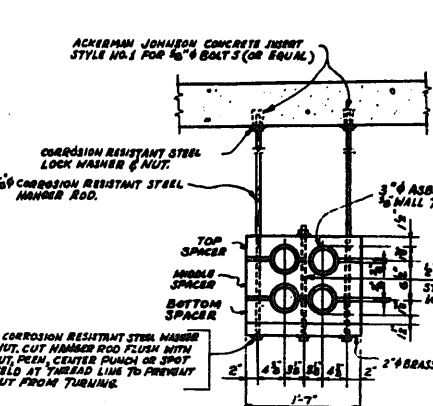
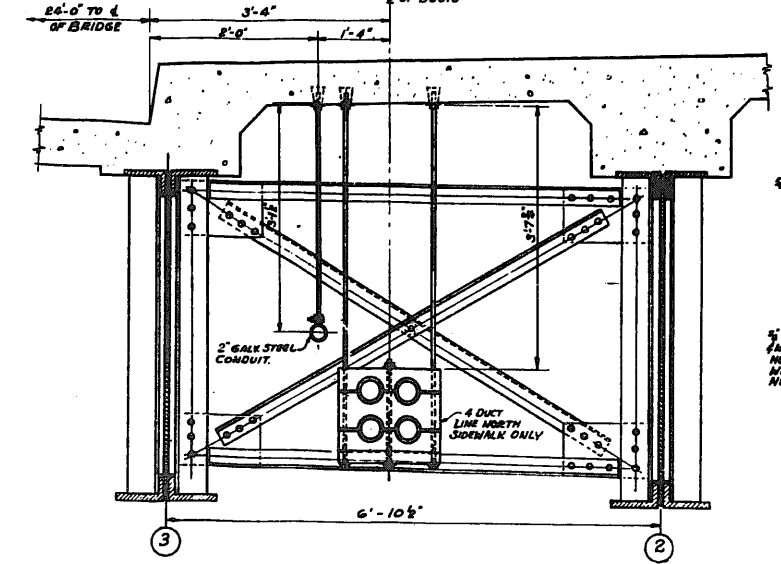
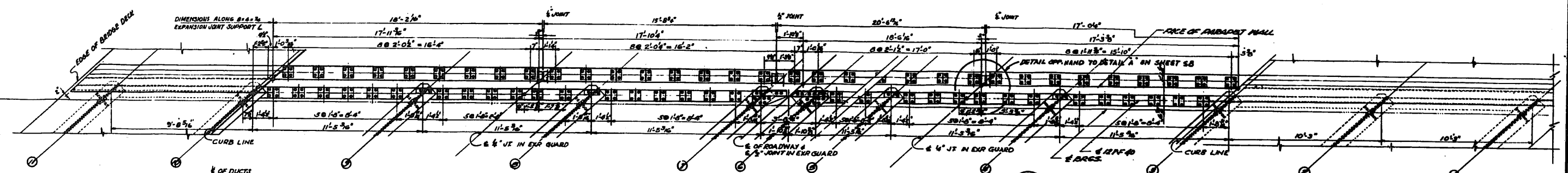
SECTION F-F

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 C. & N.W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0804-2
 HUBBARD ST. BRIDGE
 STRUCTURAL STEEL PLAN & DETAILS
 ALFRED BENDER & ASSOCIATES
 111 W. JACKSON BLVD.
 CHICAGO, ILLINOIS
 SHEET NO. 92 OF 160 SHEETS DATE: JAN 9-1957

PROJECT NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.T.2	2322-2	COOK	160	110
STA.	TO STA.			
PREPARED BY: ALFRED BENECH & ASSOCIATES, CHICAGO, ILL. PROJECT: I-55-2-50				

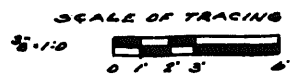


NOTE: DIMENSION NOTED THIS: 1'-0" REFERS TO THE VERTICAL DISTANCE MEASURED BETWEEN THE TOP OF THE 18" DIA. CURB AND THE TOP 18" DIA. AT THE FACE OF THE 4'-0" & L.

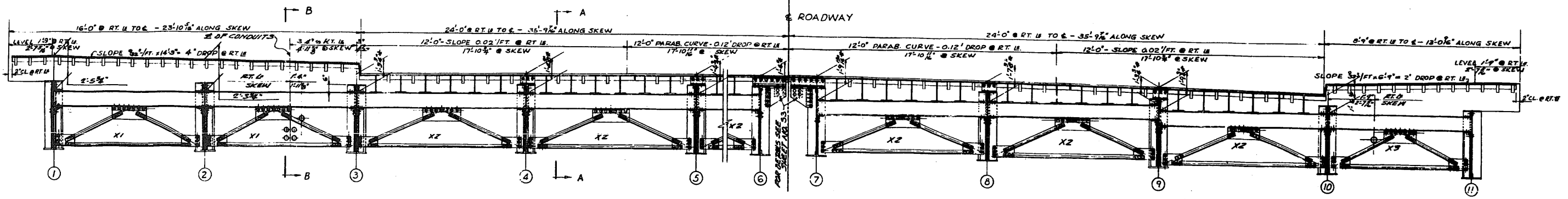


NOTE: THE DIMENSION GUARD GENERAL NOTES SEE SHEET 54 FOR DIMENSIONS AND DETAILS NOT SHOWN HERE SEE SHEETS 51, 52 & 54

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 03084-2
HUBBARD ST. BRIDGE
STRUCTURAL STEEL DETAILS
ALFRED BENECH & ASSOCIATES
111 W. JACKSON BLVD.
CHICAGO, ILLINOIS
SHEET NO. 55 OF 160 SHEETS
DATE JAN 9 - 1957

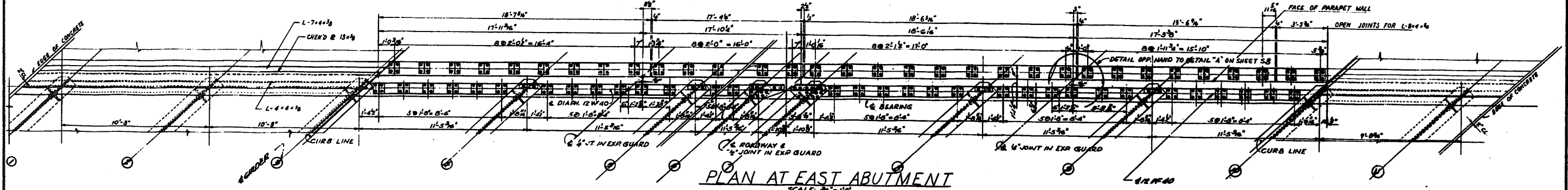


FEDERAL AID DISTRICT NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
1A12	0202	COOK	160	111
STATION	TO STA.			
744	744			
ILLINOIS STATE ROAD PROJECT 02-2 (195)				

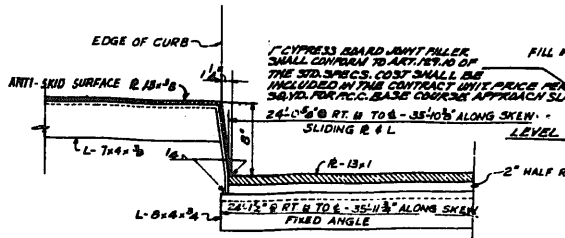


ELEVATION AT EAST ABUTMENT
SCALE: 1/8" = 1'-0"

NOTE: SEE SHEET NO. 53 FOR EXPLANATION OF DIMENSIONS MARKED WITH "X". FOR DETAILS OF EXPANSION GUARD NOT SHOWN ON THIS SHEET SEE SHEETS 51, 52 & 53. JOINTS IN 13"x1" PLATES ARE PARALLEL TO ROADWAY, JOINTS IN 8"x1" AND 7"x1" ARE PERPENDICULAR TO PARAPET WALL.

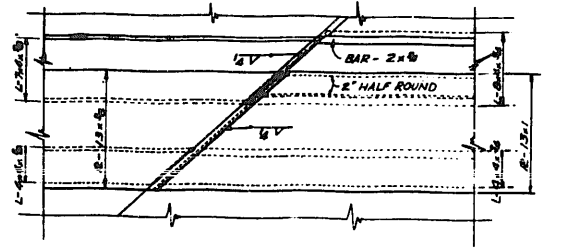


PLAN AT EAST ABUTMENT
SCALE: 1/8" = 1'-0"



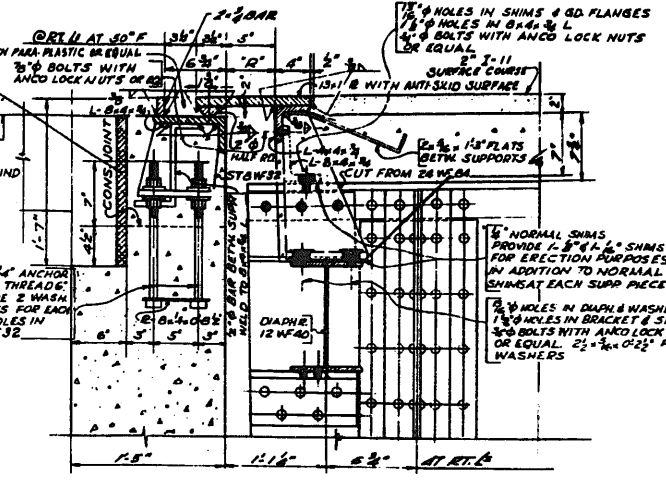
SECTION

NOTE: BEND 3/8" & DOWN ALONG CURB OR CUT & WELD. CUT & BEND 3/4" L OR WELD ON 3/8". SET 1/2" & FLUSH WITH FACE OF CURB. GRIND ALL WELDS SMOOTH.

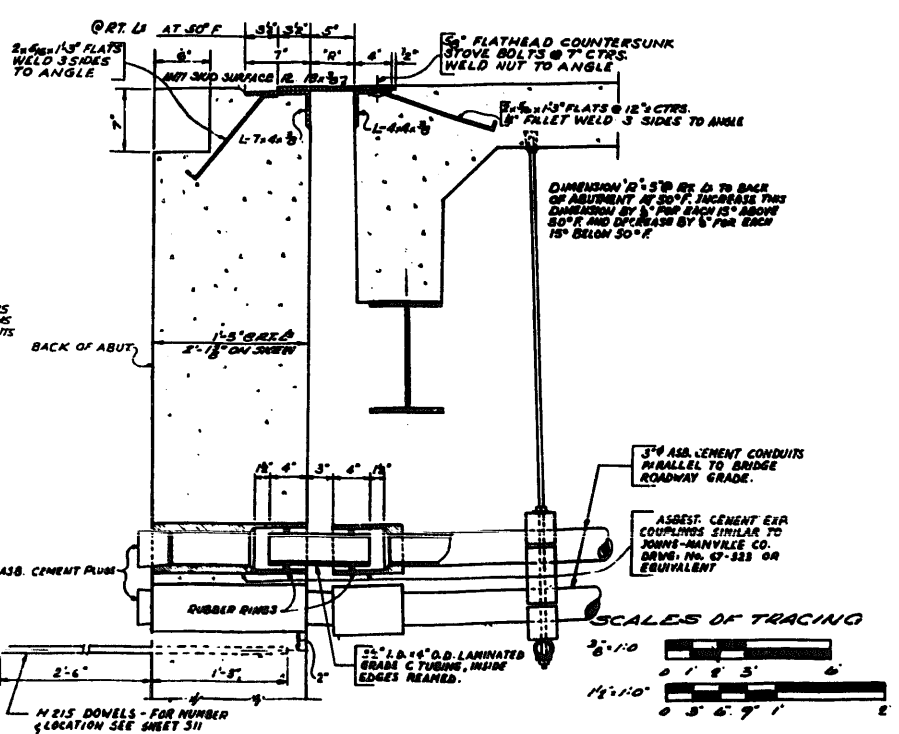


PLAN

CURB DETAILS
SCALE: 1/2" = 1'-0"



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

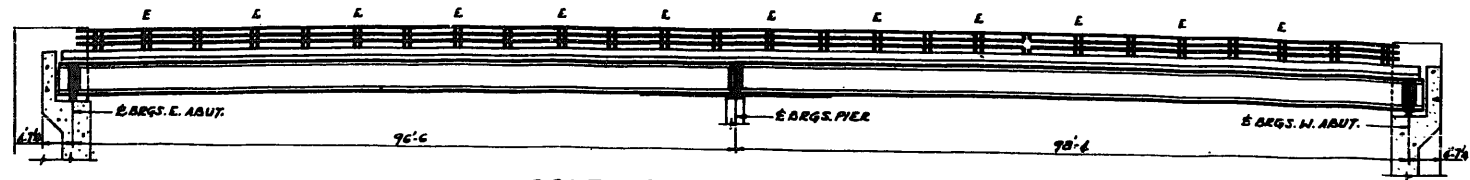


SECTION B-B
SCALE: 1/2" = 1'-0"

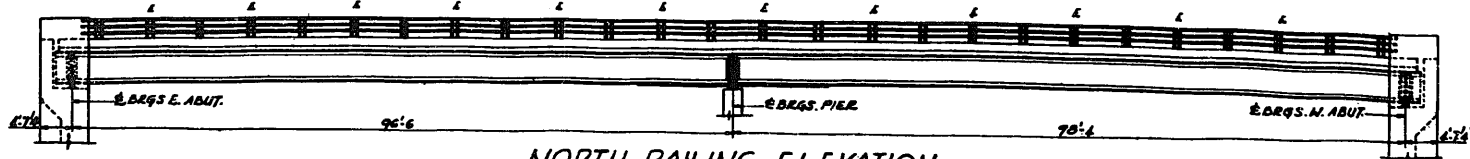
NOTES FOR EXPANSION GUARDS:
ROADWAY EXPANSION GUARD SHALL BE FABRICATED AND ERECTED TO CONFORM TO ROADWAY CROWN. COPPER BEARING STEEL (A.S.T.M. 318 WITH 0.2% COPPER ADDED) SHALL BE USED FOR 13"x1" PLATES, 8"x1", 7"x1", 4"x1", 3" HALF ROUND AND 3"x1" BAR ASSEMBLY IN SHOP FOR INSPECTION. ALL SURFACES UNACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS OF SHOP PAINT EXCEPT 13"x1" ANCHORS. EXPANSION GUARDS ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL. ESTIMATED WEIGHT FOR 2 COMPLETE GUARDS, INCLUDING SIDEWALK GUARDS, FOR HUBBARD STREET BRIDGE = 29,430 LBS. FOR DIMENSIONS AND DETAILS NOT SHOWN HERE SEE SHEETS 51, 52 & 53.

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N. W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0202.4-2
HUBBARD ST. BRIDGE
STRUCTURAL STEEL DETAILS
ALFRED BENECH & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLDG. CHICAGO, ILLINOIS
SHEET NO. 111 OF 160 SHEETS DATE: JAN 9 - 1957

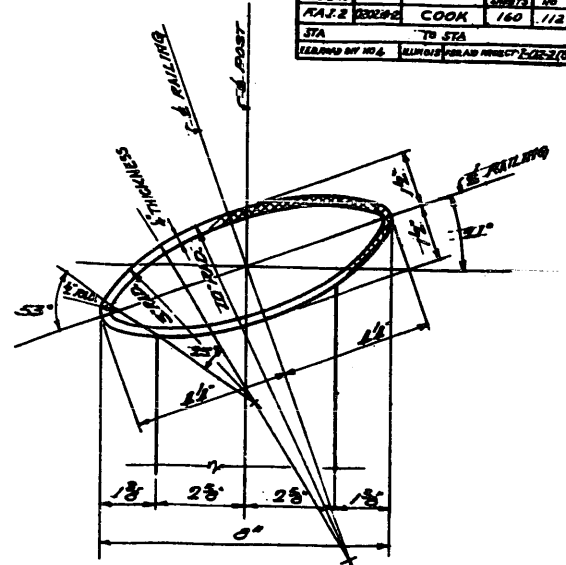
DESIGNED BY	DATE	CHECKED BY	TOTAL SHEETS	SHEET NO.
ALFRED BERENSON	1/2/57	COOK	160	1/2
STA.	TO STA.			
LEADING BY NO. 6	FOLLOWING SHEET NO. 2 (100)			



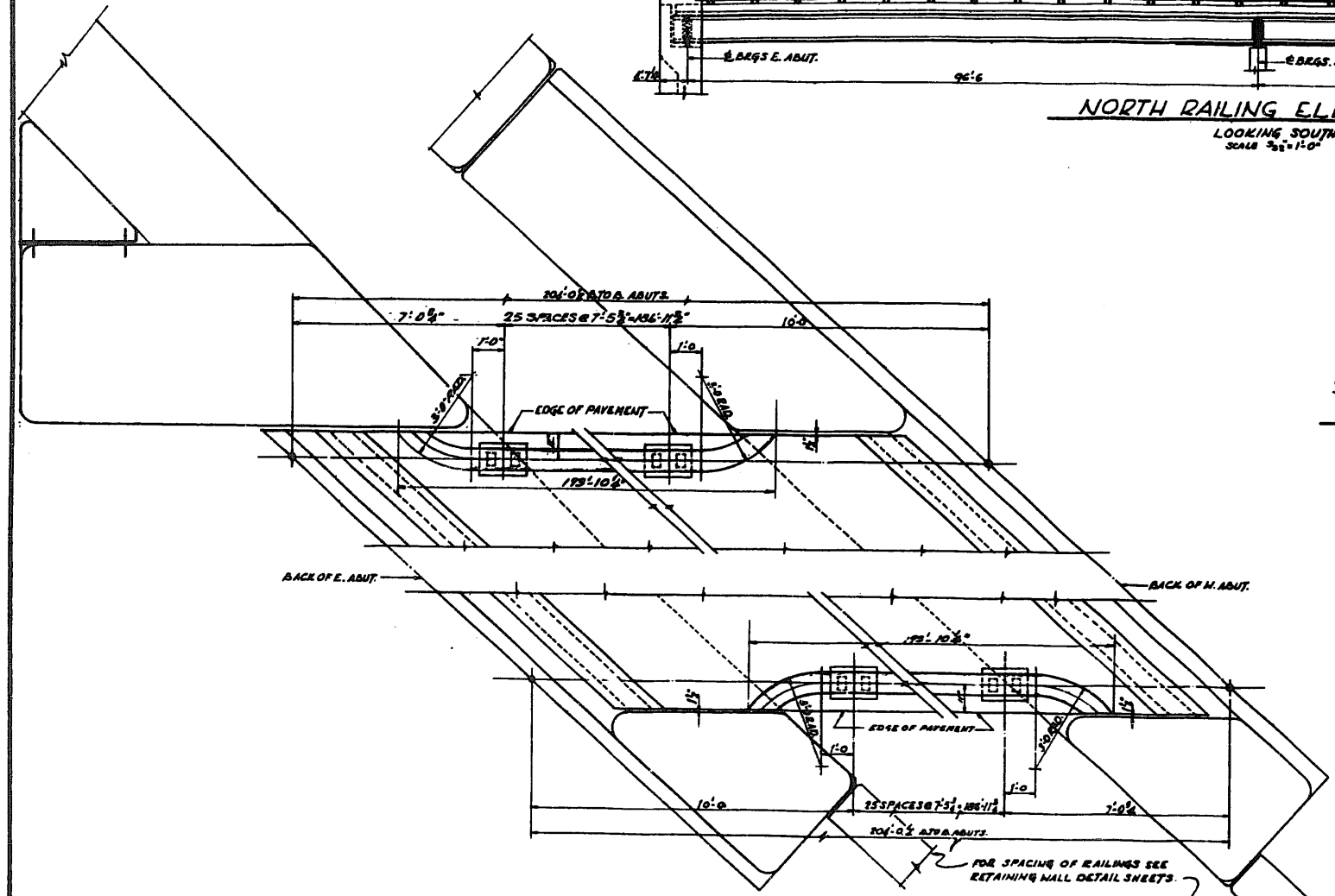
SOUTH RAILING ELEVATION
LOOKING SOUTH
SCALE 3/8" = 1'-0"



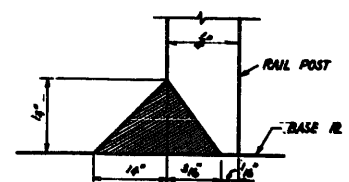
NORTH RAILING ELEVATION
LOOKING SOUTH
SCALE 3/8" = 1'-0"



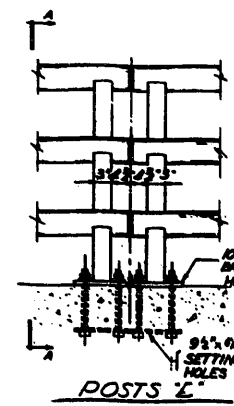
ALUMINUM RAILING DETAIL
SCALE 3/8" = 1'-0"



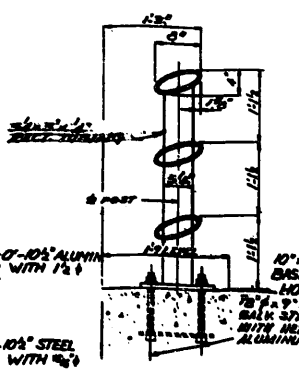
PLAN SHOWING SPACING OF RAIL POSTS & ABUT. CORNER DETAILS
SCALE 3/8" = 1'-0"



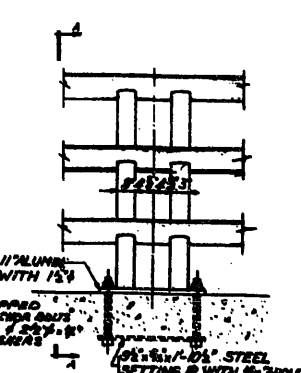
WELD DETAIL
RAIL POST TO BASE R



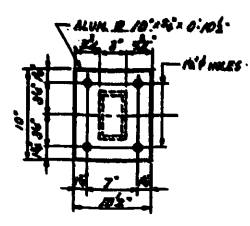
POSTS E



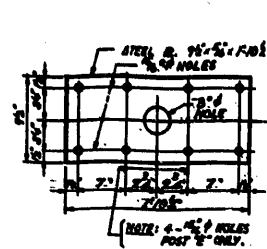
SECTION A-A
BRIDGE RAILING



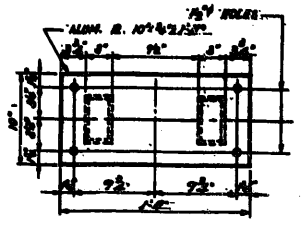
INTERMEDIATE POSTS



BASE R E



SETTING R
SCALE 1/2" = 1'-0"



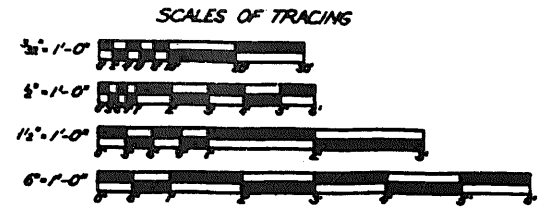
INTERM. BASE R

NOTES
RAIL SHALL BE FABRICATED AND ERRECTED TO CONFORM TO VERTICAL CURVE OF ROADWAY.
RAIL POSTS SHALL BE TRULY VERTICAL.
ALL EDGES AT THE ENDS OF EACH RAILING UNIT SHALL BE SLIGHTLY ROUNDED.

NOTE:
ALL ANCHOR BOLTS FOR RAIL POSTS WHICH PROJECT MORE THAN 1/2" ABOVE TOP OF NUTS SHALL BE CUT OFF. THREADS OF BOLTS SHALL BE CHECKED BY NUTS SPOT-WELDED IN PLACE.

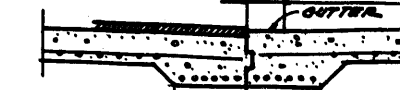
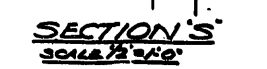
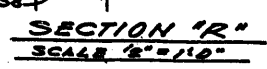
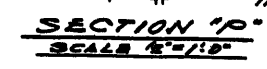
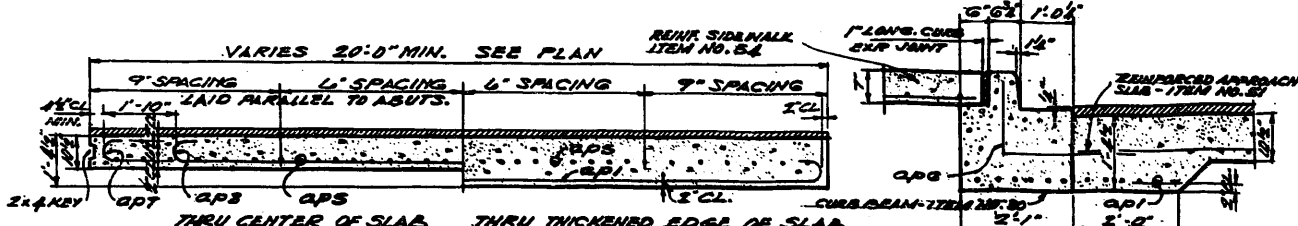
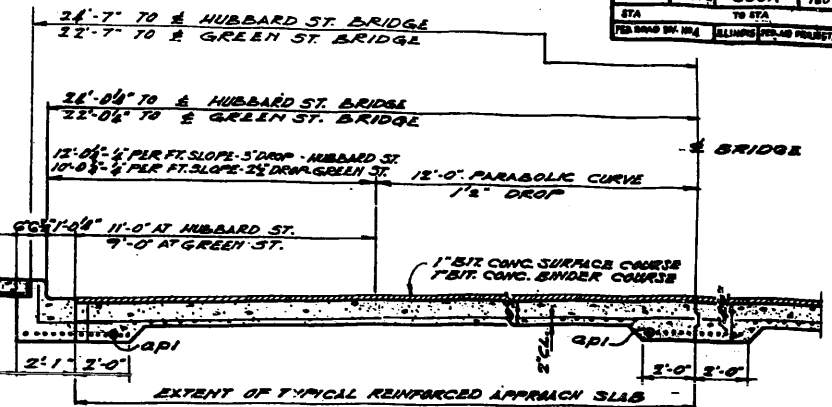
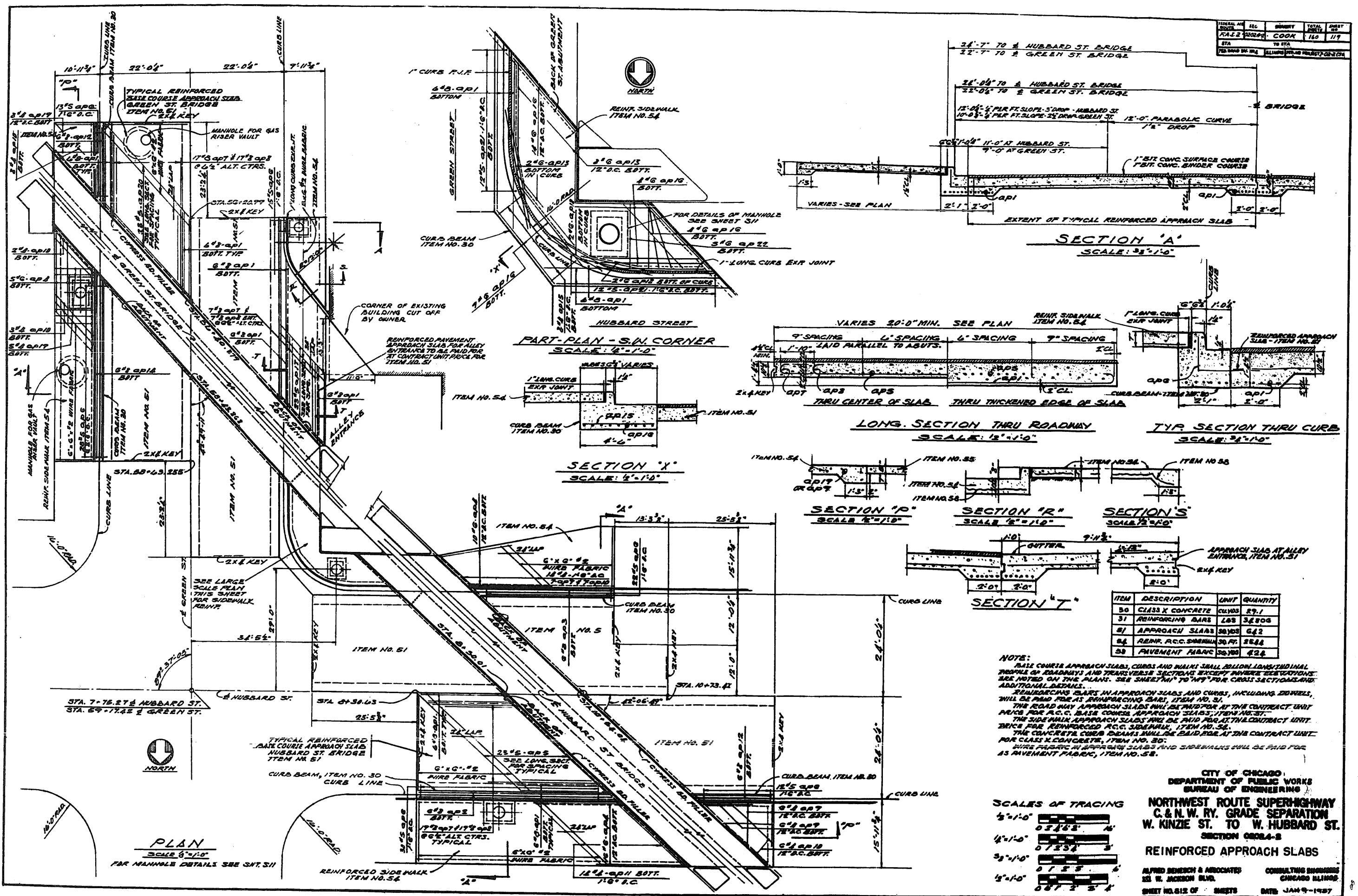
SHIM PLATES FOR RAIL POSTS
FURNISH ALUMINUM SHIMS CONSISTING OF ONE 1/2" SHIM AND 1/4" SHIMS AT 50% OF RAILPOSTS FOR VERTICAL ADJUSTMENT OF POSTS. SIZE OF SHIMS AND SIZE AND SPACING OF HOLES SHALL BE SAME AS FOR BASE PLATES OF POSTS.

SPECIFICATIONS
THE HORIZONTAL RAILS AND VERTICAL POSTS MAY BE EXTRUDED OR DRAWN TO THE SHAPES SHOWN.
THE RAILS, POSTS AND PLATES SHALL BE MADE OF ALUMINUM ALLOY 6061, TEMPER T6 (6061-T6) CONFORMING TO THE FOLLOWING APPROPRIATE A.S.T.M. SPECIFICATIONS: B207, B210, B221 AND B226. THE WASHERS SHALL BE MADE FROM ALUMINUM ALLOY SHEETS CONFORMING TO A.S.T.M. SPECIFICATION B 207, ALLOY CLD C9 25A, TEMPER T4 (C92A-T4).
WELDING OF ALUMINUM SHALL BE BY THE ARCON-SHIELDED TUNGSTEN ARC PROCESS USING FILLER METAL OF ALUMINUM ALLOY R-35A OR R-35B (4043) CONFORMING TO A.S.T.M. SPECIFICATION B 288.
SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.



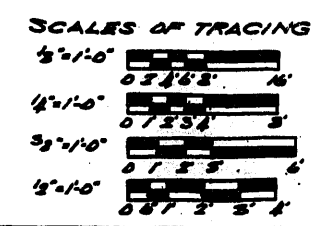
CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION CROSS-2
HUBBARD ST. BRIDGE
PLAN & ELEVATION OF RAILINGS
ALFRED BERENSON & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. 26 OF 160 SHEETS DATE JAN 9-1957

DESIGNER	SEC.	REVISION	TOTAL SHEETS
ALFRED BENECH & ASSOCIATES	COOK	160	117
DATE	BY	DATE	BY
FEB 1947	W. H. HALL	JAN 1947	W. H. HALL



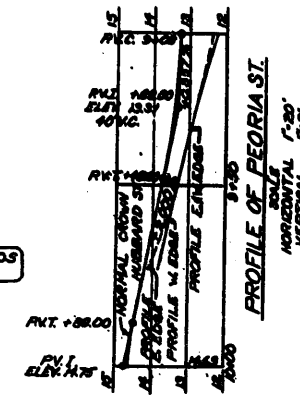
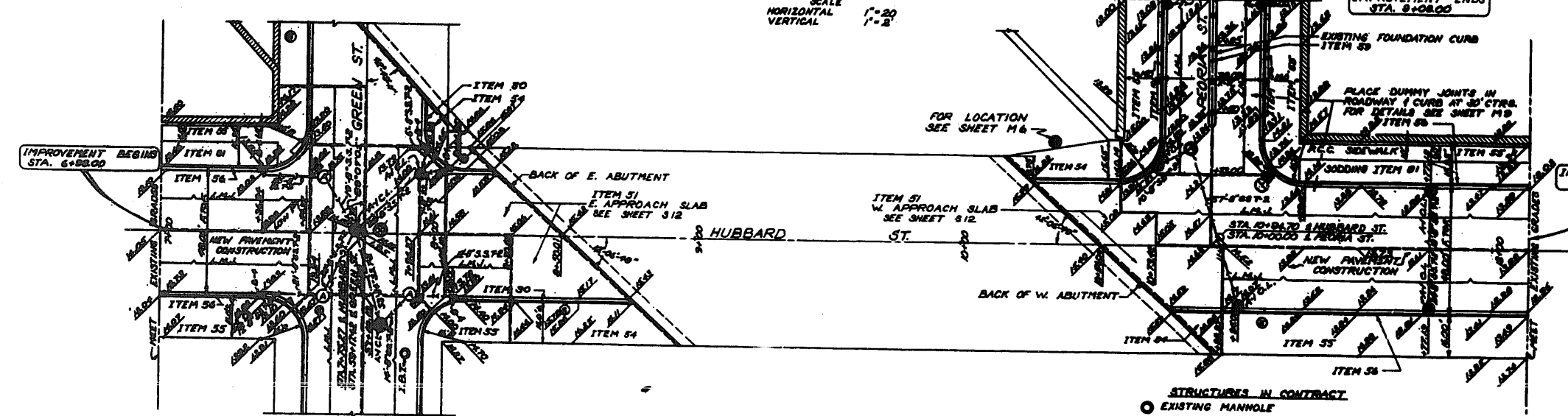
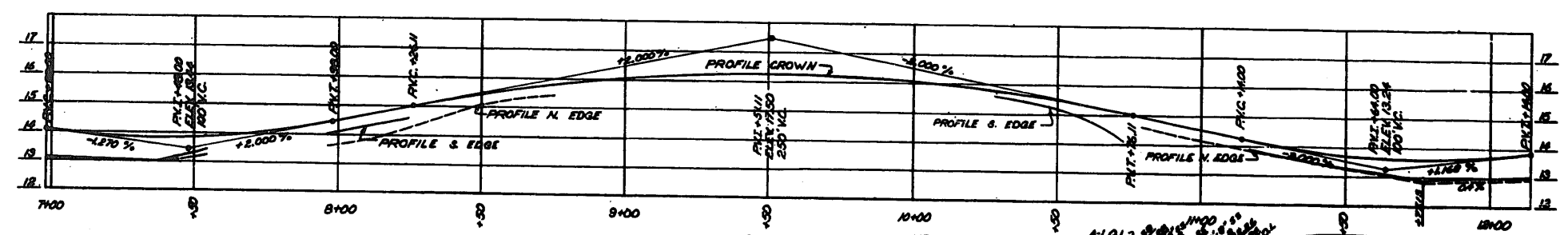
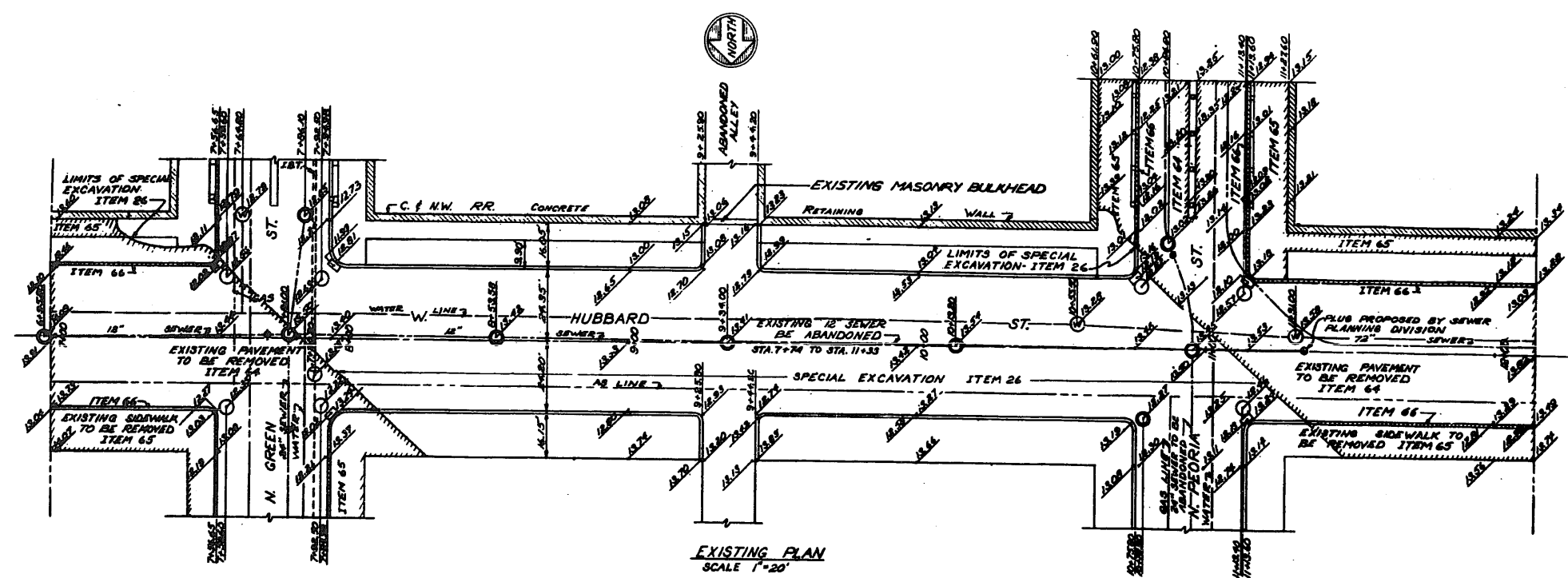
ITEM	DESCRIPTION	UNIT	QUANTITY
50	CLASS X CONCRETE	CYBDS	29.1
51	REINFORCING BARS	LSB	34806
52	APPROACH SLABS	SQYDS	642
54	REINF. ACC. SIDEWALK	30 FT.	2544
55	PAVEMENT FABRIC	30 YDS	424

NOTE:
 BASE COURSE APPROACH SLABS, CURBS AND SIDEWALKS SHALL BE LAYED ON THE ORIGINAL PROFILE OF ROADWAYS AND TRANSVERSE SECTIONS EXCEPT WHERE INDICATED OTHERWISE. SEE NOTES ON THE PLANS. SEE SHEETS 'M' TO 'W' FOR CROSS SECTIONS AND ADDITIONAL DETAILS.
 REINFORCING BARS IN APPROACH SLABS AND CURBS, INCLUDING ENDWELLS, WILL BE PAID FOR AT APPROACHING BARS, ITEM NO. 51.
 THE ROADWAY APPROACH SLABS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR R.C.C. BASE COURSE APPROACH SLABS, ITEM NO. 52.
 THE SIDEWALK APPROACH SLABS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR REINFORCED R.C.C. SIDEWALK, ITEM NO. 54.
 THE CONCRETE CURB BEAMS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR CURB BEAM, ITEM NO. 30.
 WIRE FABRIC IN APPROACH SLABS AND SIDEWALKS WILL BE PAID FOR AS PAVEMENT FABRIC, ITEM NO. 55.



CITY OF CHICAGO
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 NORTHWEST ROUTE SUPERHIGHWAY
 C. & N. W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0804-B
 REINFORCED APPROACH SLABS
 ALFRED BENECH & ASSOCIATES
 221 W. JACKSON BLVD.
 CHICAGO, ILLINOIS
 SHEET NO. 612 OF 6 SHEETS
 DATE JAN 9 - 1947

DATE	BY	CHECKED	DATE
1/12/27	COOK	1/10/27	1/10/27
STA.	TO STA.	160	120
SHEET NO. 1 OF 160 SHEETS		DATE: JAN. 7, 1927	

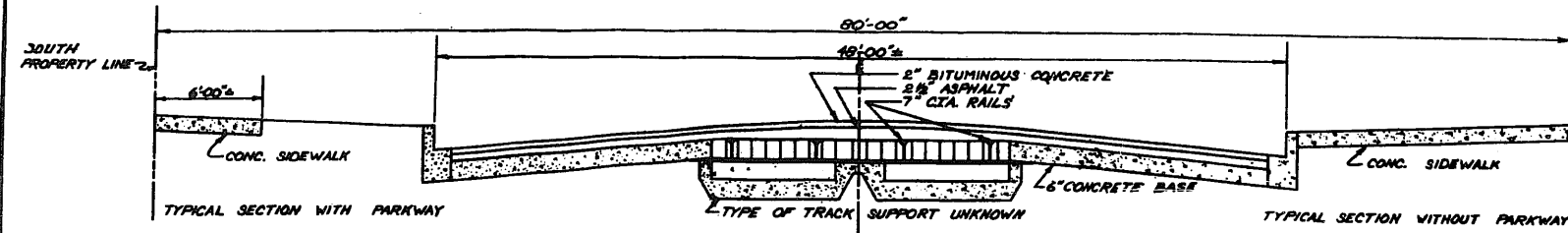


SCALE OF TRACING
1"=20'-0"
0 5 10 20 30 40

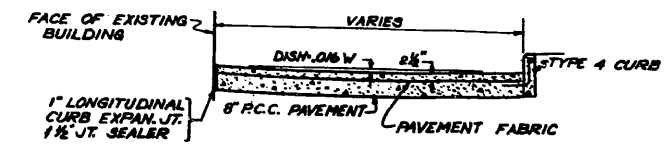
- STRUCTURES IN CONTRACT**
- EXISTING MANHOLE
 - MANHOLE TO BE FILLED ITEM 76
 - ⊙ MANHOLE TO BE ADJUSTED ITEM 74
 - ⊕ MANHOLE TO BE CONSTRUCTED 4' DIAM. ITEM 71
 - EXISTING CATCH BASIN
 - ⊙ CATCH BASIN TO BE ADJUSTED ITEM 75
 - ⊕ CATCH BASIN TO BE CONSTRUCTED 4' DIAM. ITEM 72
 - ⊙ CATCH BASIN TO BE FILLED ITEM 77
 - ⊕ INLET TO BE CONSTRUCTED ITEM 73
 - EXISTING INLET
 - ⊕ INLET TO BE FILLED ITEM 78
 - PLUG FOR EXISTING SEWER
 - ⊙ ELECTRICAL MANHOLE
 - GAS MANHOLES

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 02024-2
PLAN & PROFILE - HUBBARD & PEORIA ST. APPROACHES
ALFRED BENSON & ASSOCIATES CONSULTING ENGINEERS
111 W. JACKSON BLVD. CHICAGO, ILLINOIS
SHEET NO. 1 OF 160 SHEETS DATE: JAN. 7, 1927

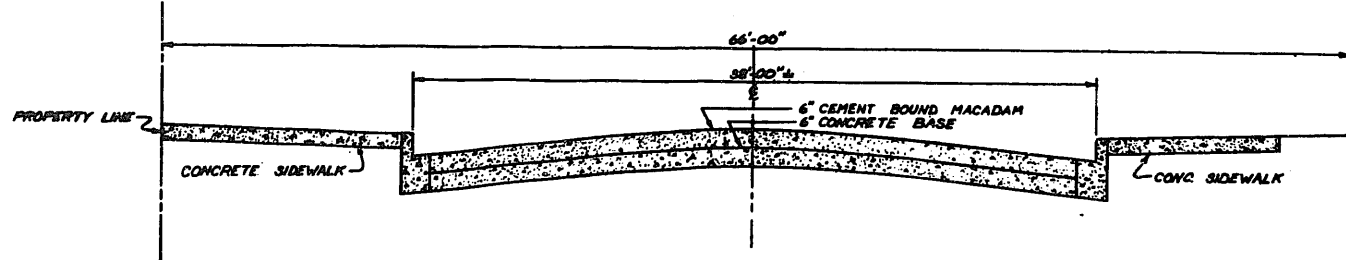
PLAT NO.	REC.	COUNTY	TOTAL SHEETS	SHEET NO.
2412	20254	COOK	160	182
DATE	BY	DATE	BY	DATE



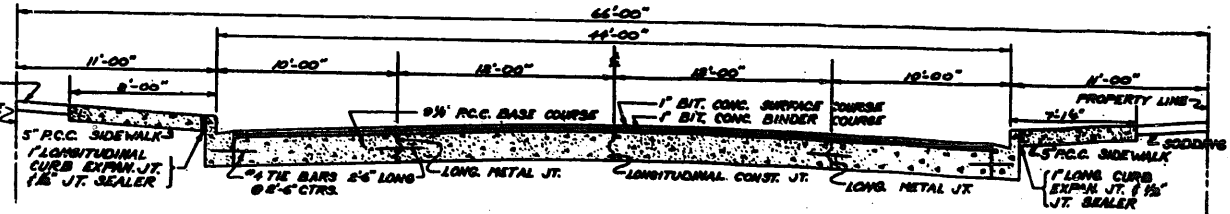
SECTION OF EXISTING HUBBARD ST.
SCALE
HORIZONTAL 1"=4'
VERTICAL 1"=2'



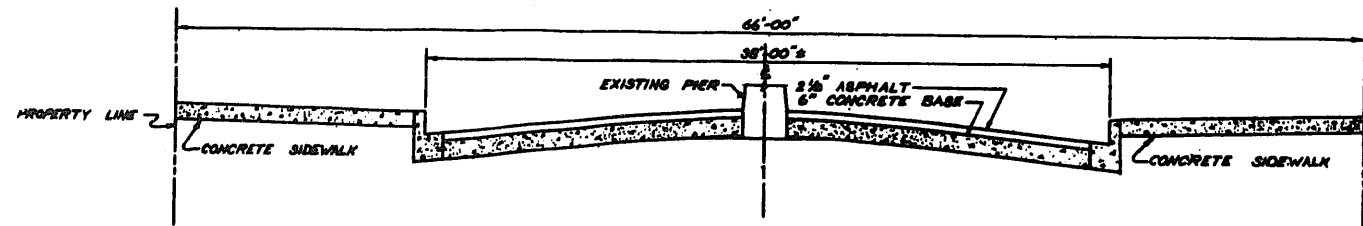
SECTION OF ALLEY WITH PAVEMENT FABRIC
SCALE
HORIZONTAL 1"=4'
VERTICAL 1"=2'



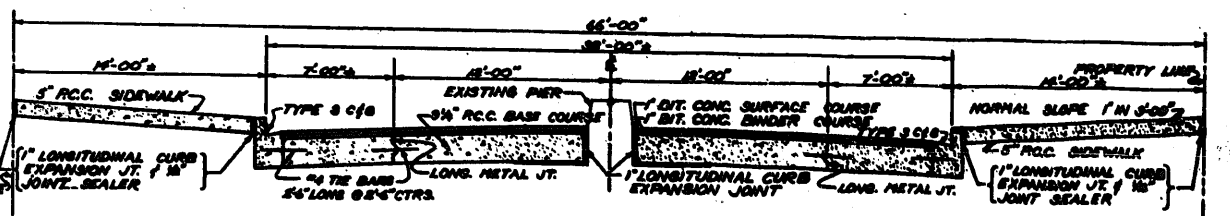
SECTION OF EXISTING GREEN ST.
SCALE
HORIZONTAL 1"=4'
VERTICAL 1"=2'



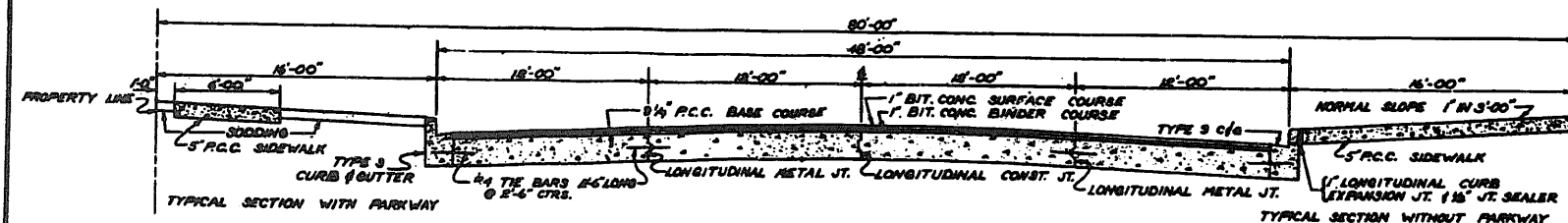
SECTION OF PROPOSED GREEN ST.
SCALE
HORIZONTAL 1"=4'
VERTICAL 1"=2'



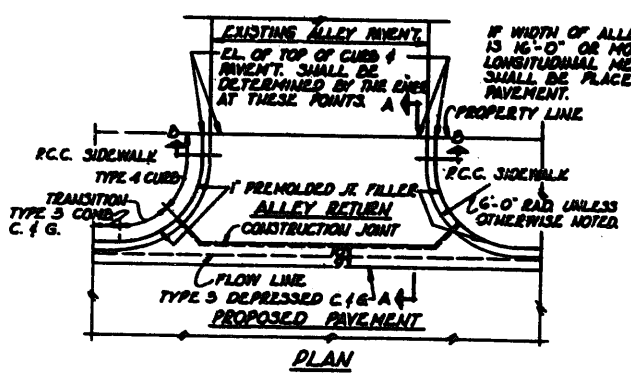
SECTION OF EXISTING PEORIA ST.
SCALE
HORIZONTAL 1"=4'
VERTICAL 1"=2'



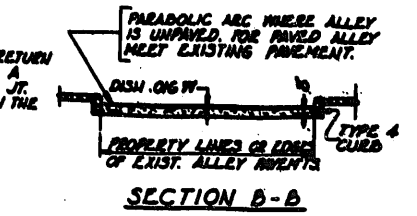
SECTION OF PROPOSED PEORIA ST.
SCALE
HORIZONTAL 1"=4'
VERTICAL 1"=2'



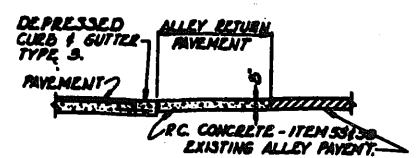
SECTION OF PROPOSED HUBBARD ST.
SCALE
HORIZONTAL 1"=4'
VERTICAL 1"=2'



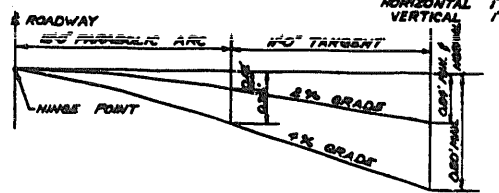
DETAIL OF ALLEY RETURN



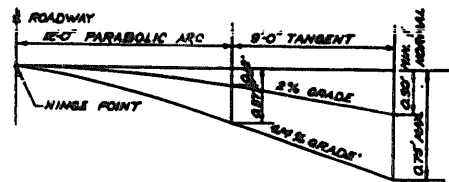
SECTION B-B



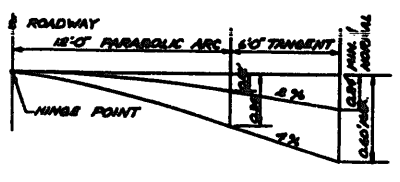
SECTION A-A



HUBBARD ST.

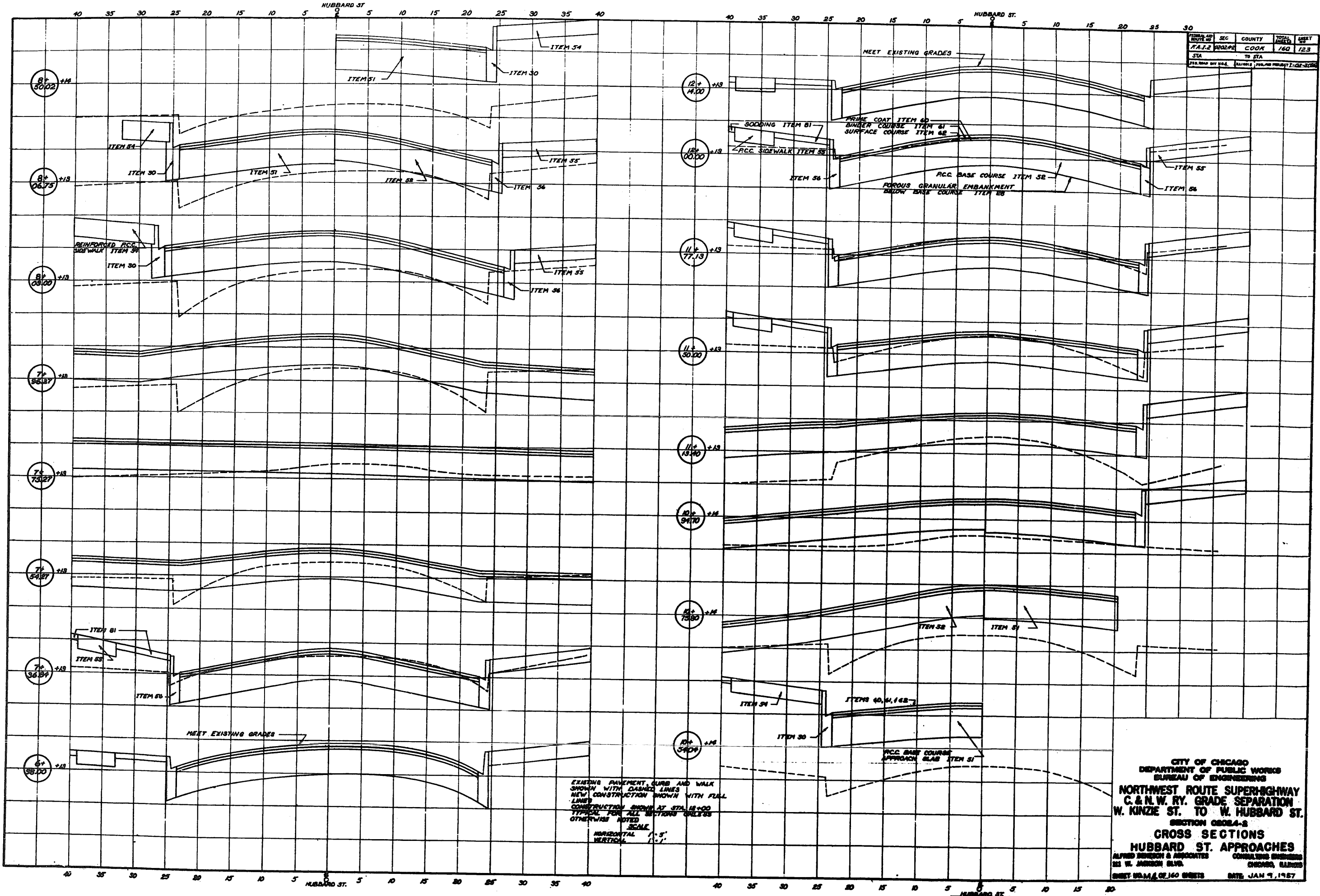


GREEN ST.
PAVEMENT CROWNS



PEORIA ST.

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
C. & N.W. RY. GRADE SEPARATION
W. KINZIE ST. TO W. HUBBARD ST.
SECTION 0824-B
TYPICAL CROSS SECTIONS
APPROACH PAVEMENTS
ALFRED BISHOP & ASSOCIATES
331 W. JACKSON BLVD.
CHICAGO, ILLINOIS
SHEET NO. 142 OF 160 SHEETS
DATE JAN 9 - 1967



PROJECT NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
100-100	100	COOK	160	123
STA.	TO STA.			
100+00	100+00			
PREPARED BY: H.A. ALBERT, 100-100 PROJECT 100-100				

EXISTING PAVEMENT CURBS AND WALK SHOWN WITH DASHED LINES
 NEW CONSTRUCTION SHOWN WITH FULL LINES
 CONSTRUCTION SHOWN AT STA. 10+00 TYPICAL FOR ALL SECTIONS UNLESS OTHERWISE NOTED
 SCALE
 HORIZONTAL 1" = 5'
 VERTICAL 1" = 1'

CITY OF CHICAGO
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 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 C. & N. W. RY. GRADE SEPARATION
 W. KINZIE ST. TO W. HUBBARD ST.
 SECTION 0004-2
 CROSS SECTIONS
 HUBBARD ST. APPROACHES
 ALFRED BERENSON & ASSOCIATES CONSULTING ENGINEERS
 231 W. JACKSON BLVD. CHICAGO, ILLINOIS
 SHEET NO. 123 OF 160 SHEETS DATE: JAN 9, 1967