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STATE OF ILLINOIS
COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

SCALES
PLAN 1 INCH 50 FT.
PROFILE HOR. 1 INCH 50 FT.
PROFILE VERT. 1 INCH 10 FT.
CROSS SECTIONS 1 INCH 5 FT. VERT.
CROSS SECTIONS 1 INCH 10 FT. HOR.

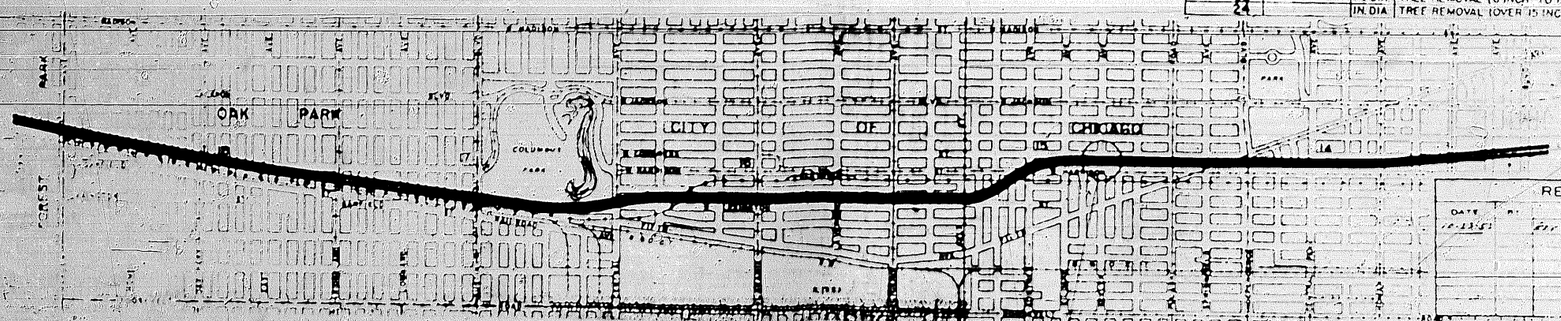
F.A. ROUTE 131 - PROJECT U.I. 261(61)
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

SEC. 062-2929.1-M.F.T.
SEC. 062-2929.1A-M.F.T.

SUMMARY OF QUANTITIES

QUANTITY 062-2929.1 M.F.T.	QUANTITY 062-2929.1A M.F.T.	UNIT	ITEM
1031.2	307.9	CU.YDS.	CLASS "X" CONCRETE
142		CU.YDS.	HAR
120980	97.7200	LBS.	RE
131.00	442.840	LBS.	S
4		EACH	
1065.1		LIN.FT.	F
31.2		LIN.FT.	F
22.0		LIN.FT.	D
774.3		LIN.FT.	T
268.8		LIN.FT.	D
31.2		LIN.FT.	D
	1.94	LIN.FT.	P
106.1	91.3	GALS.	C
5.46		LIN.FT.	P
4.50		SQ.YDS.	P
325.00		CU.YDS.	C
2		EACH	N
	403.7	LIN.FT.	N
1312		SQ.YDS.	H
141		SQ.YDS.	H
73		TONS	B
38		TONS	B
29		TONS	L
10		TONS	L
32		TONS	M
205		TONS	A
1120		GALS.	B
1063		LIN.FT.	C
152		SQ.FT.	L
1312		SQ.YDS.	P
1456		SQ.FT.	P
21,528		CU.YDS.	S
40		CU.YDS.	T
0.1		ACRES	T
2		EACH	S
708		SQ.YDS.	S
006		TONS	I
8		M.GALS.	L
720		TONS	S
2280		LIN.FT.	
414		LIN.FT.	
60	7.4	LIN.FT.	
4		EACH	MANHOLES TYPE ASSESSED
4		EACH	HANDHOLE CITY TYPE 11447A
1		EACH	HANDHOLE CITY TYPE 11143A
4		EACH	FOUNDATIONS FOR LIGHT STANDARD
	80.4	LIN.FT.	3 1/2 ASBESTOS CEMENT CONDUIT
343.2		CU.YDS.	POROUS GRANULAR BACKFILL
212		LIN.FT.	8" STORM SEWER TYPE 1
174		LIN.FT.	10" STORM SEWER TYPE 1
44		LIN.FT.	10" STORM SEWER TYPE 2
90		LIN.FT.	12" STORM SEWER TYPE 2
80		LIN.FT.	15" STORM SEWER TYPE 2
46		LIN.FT.	18" STORM SEWER TYPE 2
669		LIN.FT.	24" STORM SEWER TYPE 2
28		LIN.FT.	24" STORM SEWER TYPE 3
667		LIN.FT.	36" STORM SEWER TYPE 2
5		EACH	INLET A-11
7		EACH	CATCH BASIN A2-48-11
2		EACH	CATCH BASIN A2-48-37
2		EACH	MANHOLE A-48-5C
3		EACH	MANHOLE A-48-1C
8		EACH	LATERAL SEWER CONNECTION
8		EACH	FILLING EXISTING CATCH BASIN
446		CU.YDS.	TRENCH BACKFILL
110		SQ.YDS.	PAVEMENT REPLACEMENT - ENTIRE
28		TONS	CRUSHED STONE BASE COURSE TYPE II
2		EACH	CAST IRON FRAME TYPE 5C (INCLUDING GRATE)
6		IN. DIA.	TREE REMOVAL (6 INCH TO 15 INCH DIAMETER)
24		IN. DIA.	TREE REMOVAL (OVER 15 INCH DIAMETER)

RETURN THIS PLAN TO MAINTENANCE ROOM 706 DRAWER 2A



REVISIONS

DATE	BY	DESCRIPTION

COUNTY OF COOK
DEPARTMENT OF HIGHWAYS
APPROVED
APPROVED
ASST. CHIEF ENGINEER
CHIEF ENGINEER
SUPERINTENDENT

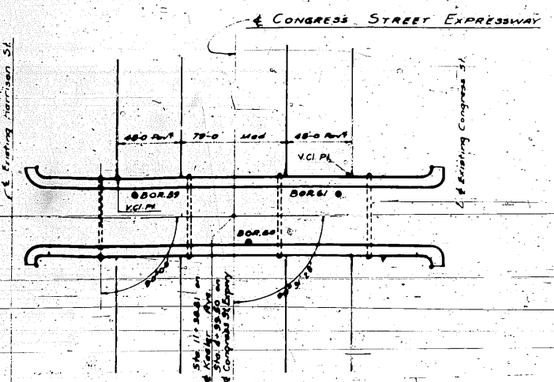
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

[redacted]

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL
[redacted]
DISTRICT ENGINEER DATE
APPROVED
[redacted]
DIVISION ENGINEER DATE

B.M. #8 El. 23.793
Δ on concrete wall on
S.E. corner 32.0' S & 32.0' E of
℄ of Congress & Keeler Ave. (C.P. A.)

SEC. 15-39-13
CITY OF CHICAGO - WEST TWP.
POP. 3,620,962



PLAN
Scale 1" = 50'

Note: For Existing Improvements & Topography See Sheet No. 20
For Utilities & Drainage Details See Sheet No. 35
For Detail of Proposed Pavement & Pavement See Sheet No. 20
For Location Plan See Sheet No. 22 and No. 23.
Chicago City Datum 0.00 = 579.50 USGS (Cook County)

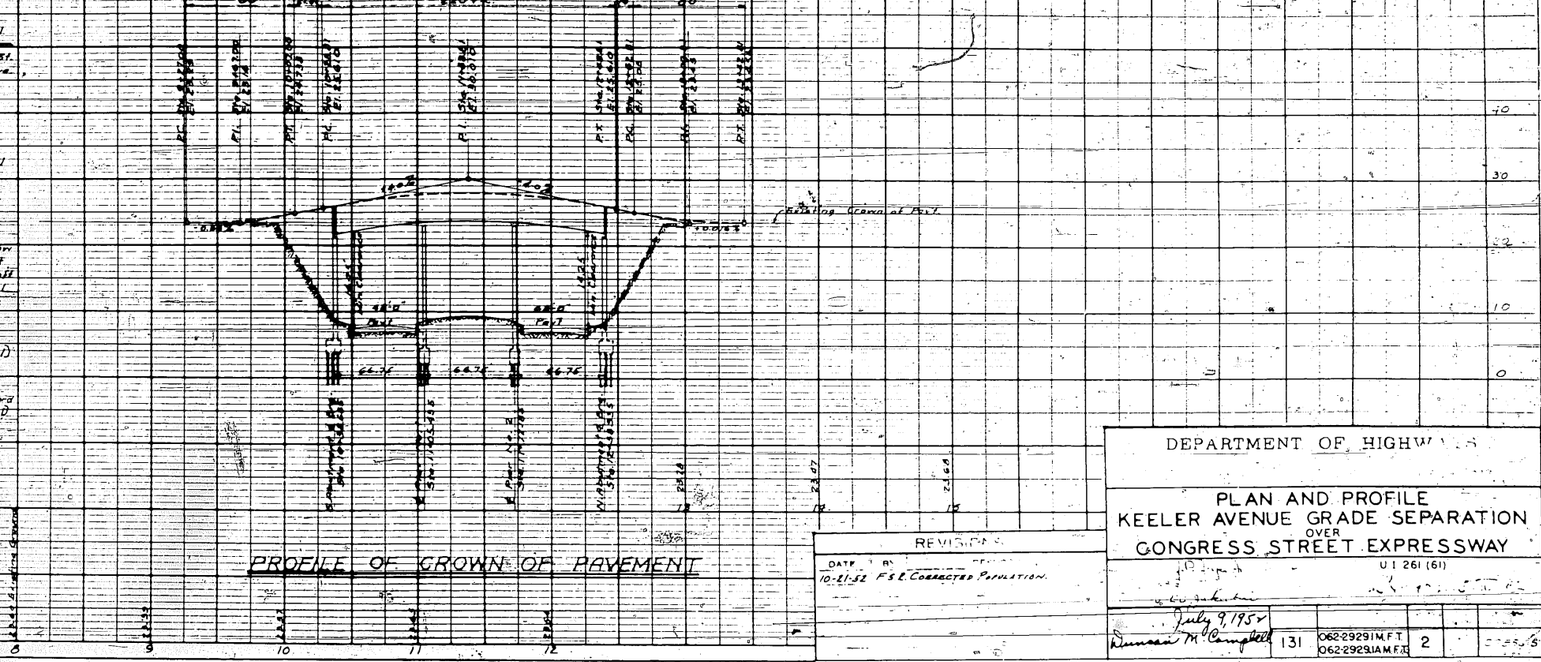
DESIGN SPEED 25 M.P.H.

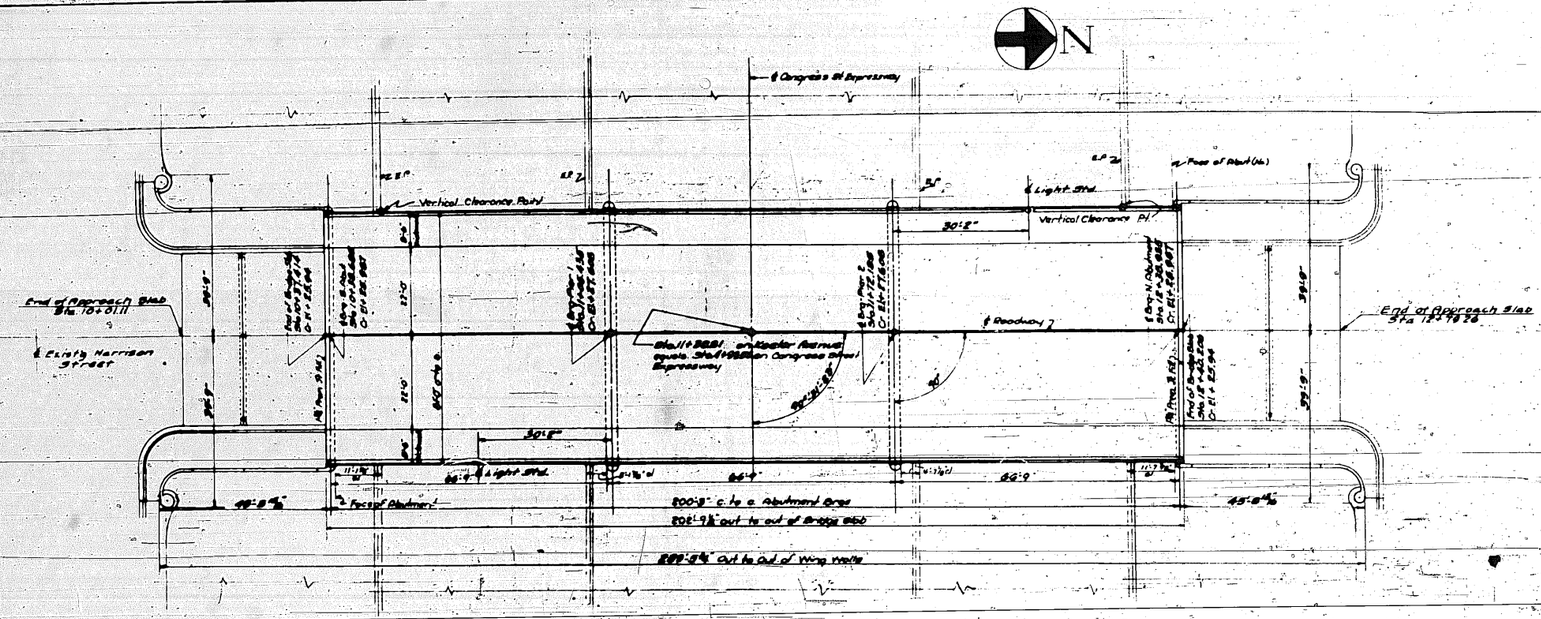
BORING No. 59	BORING No. 60	BORING No. 61
91' N of ℄ Harrison St. 17' W of ℄ Keeler Ave.	158' S of ℄ Congress St. 20.5' E of ℄ Keeler Ave.	87' S. of ℄ Congress St. 17' W of ℄ Keeler Ave.

Depth in Ft.	Type of Soil	% Moisture Oven Dry
0.0	Gr. El. 23.4	
2.0	Clay Fill	
	Grey & Yellow Clay - Soft	19
	Grey Clay Med. Hard (Some Gravel)	
7.6	Grey Clay Loam Med. Hard	
11.8	Grey Silty Loam Med. Hard	
28.0	Grey Clay Hard (Some Gravel)	

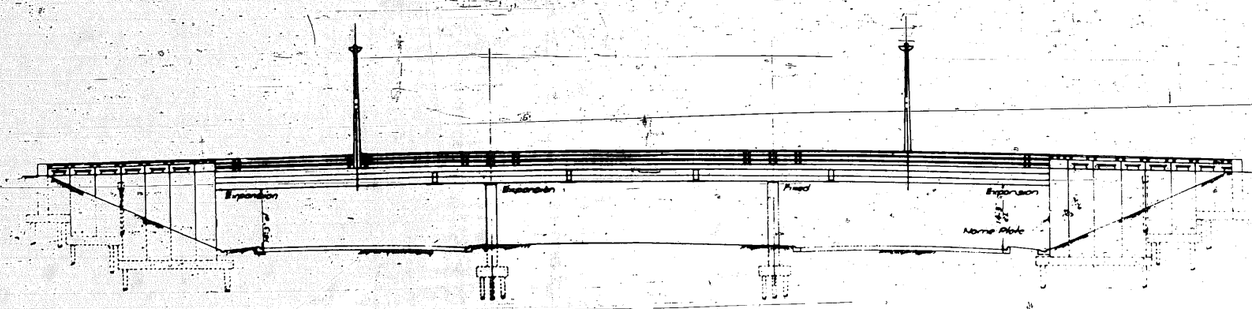
Depth in Ft.	Type of Soil	% Moisture Oven Dry
0.0	Gr. El. 23.4	
1.4	Black Clay Topsoil	
	Grey & Yellow Clay - Soft	
6.8	Brown Clay Soft	
	Grey Clay Med. Hard (Some Gravel)	
16.2	Grey Sandy Loam Med. Hard	
	Grey Clay Med. Hard (Some Gravel)	
25.0	Grey Clay Hard (Some Gravel)	
36.0	Grey Clay Med. Hard (Some Gravel)	

Depth in Ft.	Type of Soil	% Moisture Oven Dry
0.0	Gr. El. 23.4	
1.7	Clay Fill	
	Grey & Yellow Clay - Soft	
7.0	Grey Clay Soft	
18.5	(Some Gravel)	
	Grey Clay Med. Hard (Some Gravel)	
25.0	Grey Clay Hard (Some Gravel)	


Existing Crown of Pavt.
48.0' Perm
48.0' Perm
66.7'
66.7'
66.7'
Existing Crown
Existing Crown
P.C. Sta. 10+00.00
P.I. Sta. 11+00.00
P.C. Sta. 11+50.00
P.I. Sta. 12+00.00
P.T. Sta. 12+50.00
P.C. Sta. 9+50.00
P.T. Sta. 9



PLAN



ELEVATION

DESIGN DATA

Total Length	209'-9¼"
Span Arrangement	30' Slab Prestress
Live Load Stress	15000 #/sq inch
Live Load Deflection Limitation	1/800 of span
Impact Allowance	1200 #/sq inch
Unit Stress in Steel Reinforcement	800 #/sq inch

GENERAL NOTES

The contractor shall at his own cost leave part of permanent pile groups as directed by the Engineer, before ordering balance of piles.

All piles shall be driven to refusal a minimum penetration of 10.0 into a stratum of solid material, regardless of bearing capacity developed.

Each section of bridge floor slab shall be poured in one continuous operation from abutment to abutment.

Finishing of floor slab shall comply with Section 51 of the Standard Specifications.

The cost of copper water seal, copper nose and preformed joint filler shall be included in the bid price of Class X Concrete. The Copper Water Seal splices shall be soldered or brazed.

Class X Concrete to be used throughout except Concrete in Wing Handrails which shall be Handrail Concrete.

REVISIONS		
DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

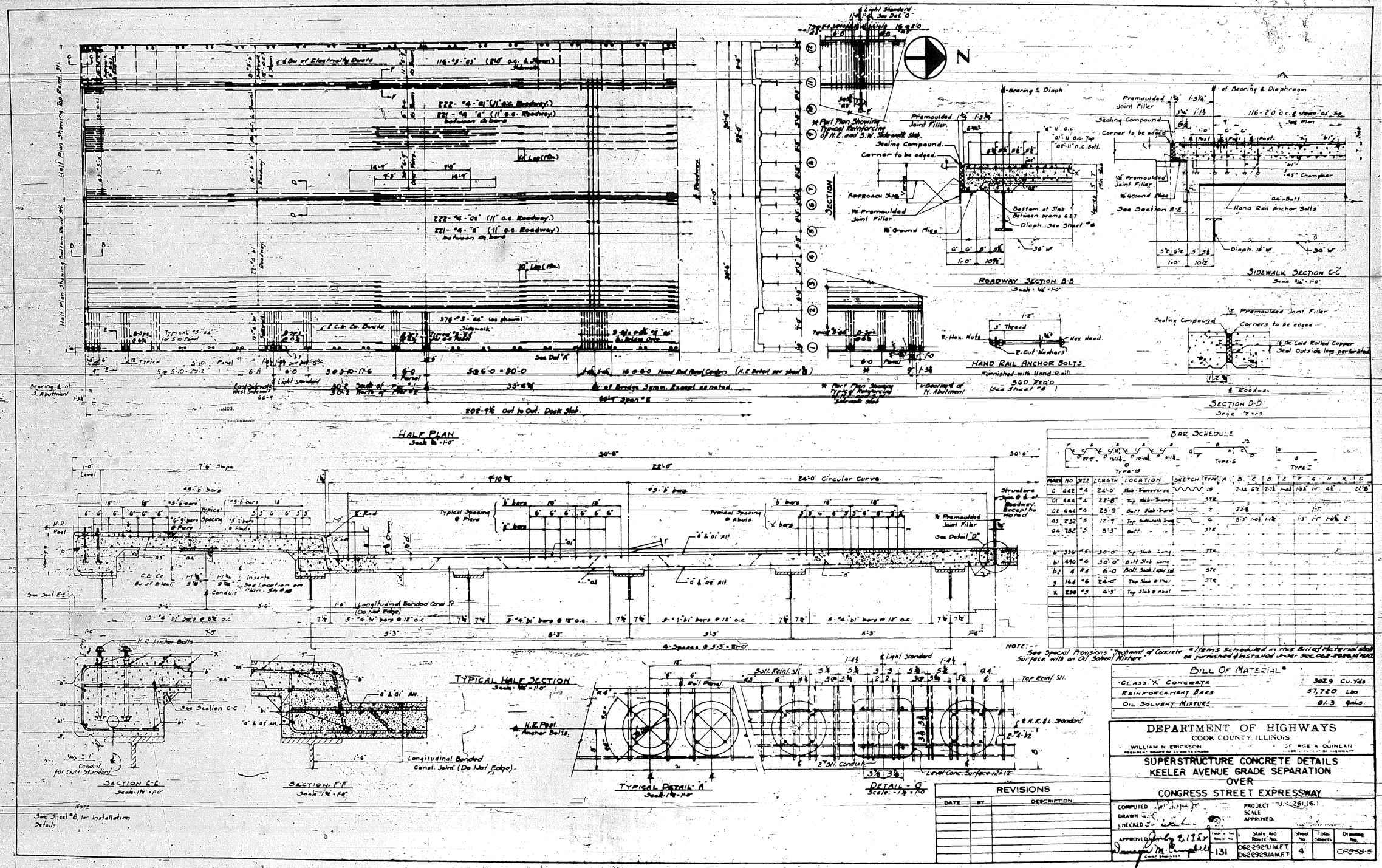
GENERAL PLAN
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN
CHECKED

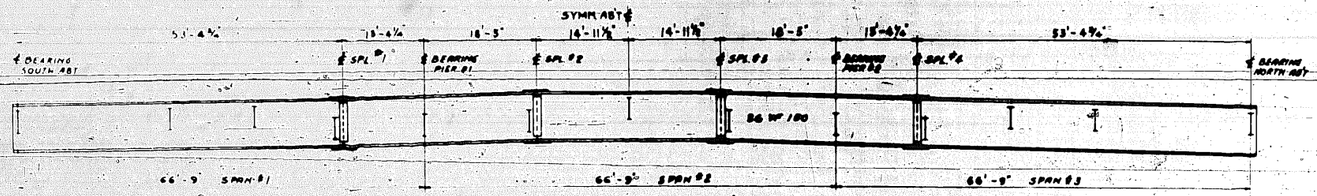
PROJECT U I 261 (61)

APPROVED Damian M. Campbell

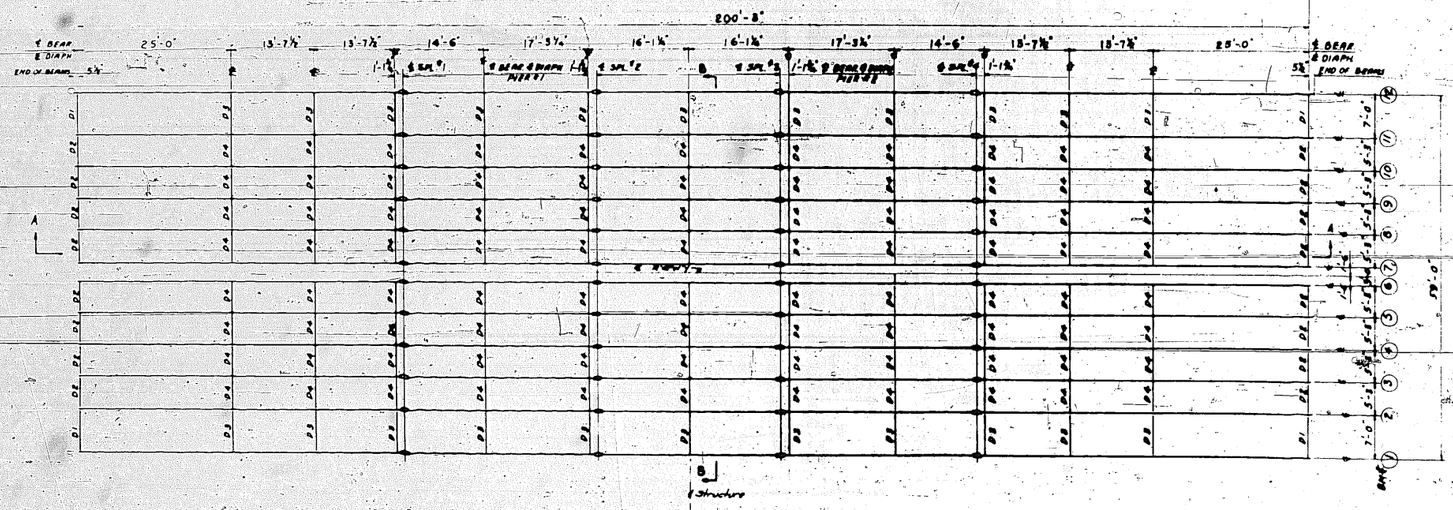
Route No.	Section	Sheet No.	Total Sheets
131	06-2929 IM-1 T 06-2929 IAM-1 T	3	


HALF PLAN
Scale 1/16" = 1'-0"
SECTION
ROADWAY SECTION B-B
Scale 1/4" = 1'-0"
SIDEWALK SECTION C-C
Scale 1/4" = 1'-0"
HAND RAIL ANCHOR BOLTS
Furnished with Hand Rail
560 REQ'D.
(See Sheet #8)
SECTION D-D
Scale 1/2" = 1'-0"
TYPICAL HALF SECTION
Scale 1/16" = 1'-0"
SECTION E-E
Scale 1/16" = 1'-0"
SECTION F-F
Scale 1/16" = 1'-0"
TYPICAL DETAIL A
Scale 1/16" = 1'-0"
DETAIL G
Scale 1/16" = 1'-0"
Note
See Sheet #8 for Installation Details
BAR SCHEDULE
TYPE-13
TYPE-6
TYPE-2
NOTE:-
See Special Provisions "Treatment of Concrete Surface with an Oil Solvent Mixture"
* Items scheduled in this Bill of Material shall be furnished & installed under Sec. 062-2929 U.N.F.T.
BILL OF MATERIAL*
CLASS "X" CONCRETE 302.9 Cu. Yds
REINFORCEMENT BARS 57,720 Lbs
OIL SOLVENT MIXTURE 81.3 Gals.
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM N. ERICKSON
PRESIDENT, BOARD OF COUNTY HIGHWAYS
SERGE A. QUINLAN
COUNTY ENGINEER OF HIGHWAYS
SUPERSTRUCTURE CONCRETE DETAILS
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY
REVISIONS
DATE BY DESCRIPTION
COMPUTED
DRAWN
CHECKED
PROJECT U.N.F. 261 (6)
SCALE
APPROVED
APPROVED
CHIEF ENGINEER
Route No. 131
State Aid Route No. 062-2929U N.F.T. 062-2929UA N.F.T.
Sheet No. 4
Total Sheets
Drawing No. CP-SS-5

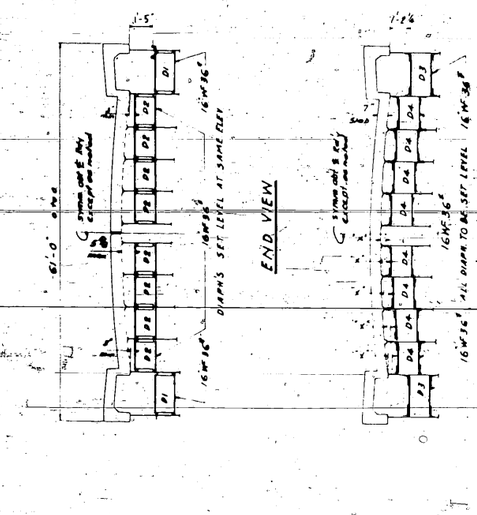
NOTE:- TOP OF BEAM IS A STRAIGHT LINE BETWEEN BEAM SPLICES
ROADWAY SLAB IS ON A GRADE LINE VERTICAL CURVE
SEE SHEET #8 FOR FILLET HEIGHT DETERMINATION INSTRUCTIONS

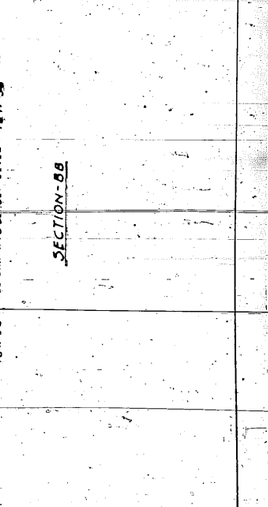


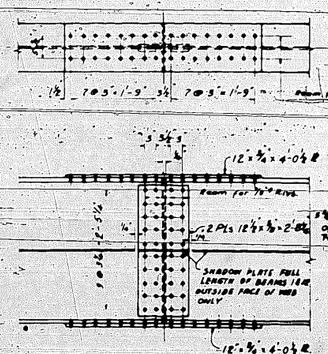
TYPICAL ROADWAY SECTION - AA
SCALE: Hor. 1/4" = 1'-0 Vert. 1/8" = 1'-0"



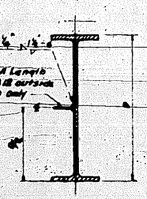
FRAMING PLAN
SCALE: 1/4" = 1'-0







DETAIL OF SPLICE PLATES
SCALE: 1/4" = 1'-0



SHADOW PLATE DETAIL

℄ BM No	LOCATION	S. ABUT ℄ B'R'G	1/4 POINT	1/2 POINT	SPLICE #1	PIER #1 ℄ B'R'G	SPLICE #2	1/2 POINT	SPLICE #3	PIER #2 ℄ B'R'G	SPLICE #4	1/4 POINT	1/2 POINT	N. ABUT ℄ B'R'G
1	TOP B'WK.	26.919	27.070	27.231	27.944	28.199	28.301	28.341	28.301	28.139	27.944	27.531	27.076	26.519
12	TOP B'M.	28.168	28.320	28.384	28.328	28.677	28.884	28.884	28.884	28.677	28.528	28.024	25.605	25.185
2	Edge of Curb	26.488	26.642	27.448	27.861	28.048	28.217	28.250	28.217	28.048	27.861	27.448	26.932	26.438
11	Top of Slab	28.168	28.320	28.384	28.328	28.677	28.884	28.884	28.884	28.677	28.528	28.024	25.605	25.185
3	TOP SLAB	25.832	26.589	26.845	27.258	27.482	27.614	27.655	27.614	27.482	27.258	26.845	26.589	25.832
10	TOP B'M.	25.249	25.668	26.088	26.591	26.741	26.948	26.948	26.948	26.741	26.591	26.088	25.668	25.249
4	TOP SLAB	25.904	26.461	26.917	27.330	27.524	27.686	27.727	27.686	27.524	27.330	26.917	26.461	25.904
9	TOP B'M.	25.321	25.740	26.160	26.663	26.813	27.019	27.019	27.019	26.813	26.663	26.160	25.740	25.321
5	TOP SLAB	25.961	26.518	26.974	27.387	27.581	27.745	27.784	27.745	27.581	27.387	26.974	26.518	25.961
8	TOP B'M.	25.378	25.797	26.217	26.720	26.870	27.076	27.076	27.076	26.870	26.720	26.217	25.797	25.378
6	TOP SLAB	25.986	26.543	26.999	27.412	27.606	27.768	27.809	27.768	27.606	27.412	26.999	26.543	25.986
7	TOP B'M.	25.403	25.822	26.242	26.745	26.894	27.101	27.101	27.101	26.894	26.745	26.242	25.822	25.403
℄ ROADWAY	TOP SLAB	25.987	26.544	27.000	27.413	27.608	27.769	27.810	27.769	27.608	27.413	27.000	26.544	25.987

* ELEVATIONS TOPS OF BEAMS AND SLAB

* DEAD LOAD DEFLECTION NOT INCLUDED — SEE SH. #6 FOR D.L. DEFLECTION

NOTES:-

STRUCTURAL STEEL SHALL BE CARBON STEEL AND SHALL CONFORM TO A.S.T.M. A7-54SK. AMENDED TO DATE. RIVETS FOR W BEAMS SHALL BE 7/8" ϕ WITH 15/16" ϕ OPEN HOLES. ALL FIELD CONNECTIONS SHALL BE RIVETED. ALL SPLICES FOR STRINGERS SHALL HAVE RIVET HOLES SUB-PUNCHED TO 13/16" AND REAMED TO 15/16". BEFORE ANY REAMING IS DONE ALL STRINGERS OF A CONTINUOUS UNIT SHALL BE ASSEMBLED IN THEIR PROPER POSITION WITH OR WITHOUT THE DIAPHRAGMS IN PLACE, MATCH MARK AND LEAVE ASSEMBLED FOR INSPECTION. WELDING SHALL CONFORM TO SPEC. OF A.W.S. FOR HIGHWAY AND BRIDGE BRIDGES 1947 AMENDED TO DATE. CONTACT SURFACES OF SHOP WELDED OR SHOP RIVETED STRUCTURAL STEEL SHALL NOT BE PAINTED, NOR SPECIFICATIONS CONCERNING INACCESSIBLE SURFACES.
TOPS OF BEAMS THAT ARE TO HAVE CONCRETE POURED IN CONTACT WITH THEM SHALL NOT BE PAINTED EXCEPT THAT OVER ABUTMENTS AND PIERS, SUCH SURFACES SHALL BE PAINTED FOR A DISTANCE OF 6 FEET EACH WAY FROM THE CENTER LINE OF BEARING. STRUCTURAL STEEL SHALL BE INSPECTED BY THE ILLINOIS DIVISION OF HIGHWAYS. BEFORE PAINTING THE STRUCTURAL STEEL SHALL BE GIVEN ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT.

NOTE:- SEE SHEET #6 FOR DETAILS OF DIAPHRAGMS, DIAPHRAGM CONNECTIONS & UTILITY CONDUIT LAYOUT.

† INCLUDES WEIGHT OF STRUCTURAL STEEL ON SHEETS # 6, 7 & 8. and shall be furnished & installed under SEC. 062-2929.1A M.F.T.

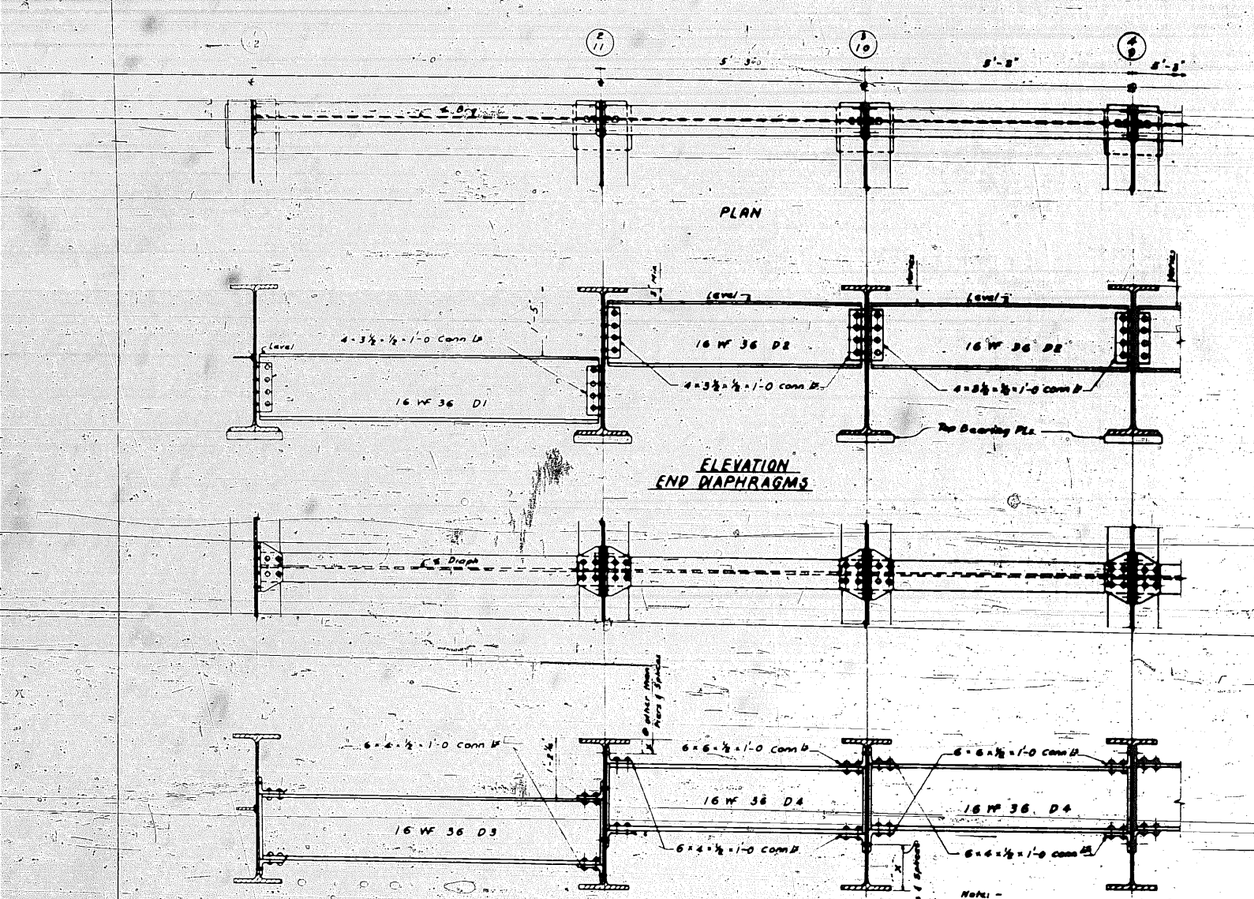
STRUCTURAL STEEL † LBS 442,840

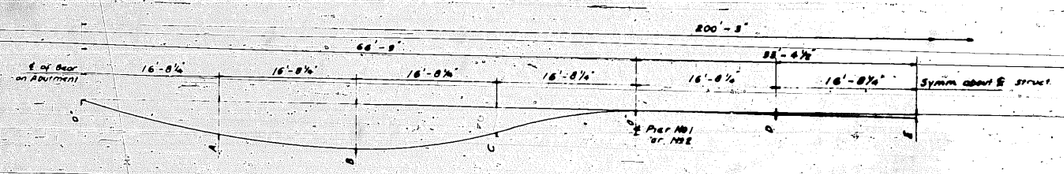
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM N. ERICKSON, DIRECTOR OF HIGHWAYS — GEORGE A. QUINLAN, SUPERINTENDENT OF HIGHWAYS

STRUCTURAL STEEL FRAMING PLAN
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

REVISIONS		
DATE	BY	DESCRIPTION

F. Route and Route No.	State Aid Route No.	Sheet No.	Total Sheets	Drawing No.
131	062-2929.1 M.F.T. 06E-2929.1A M.F.T.	5		CP859-5

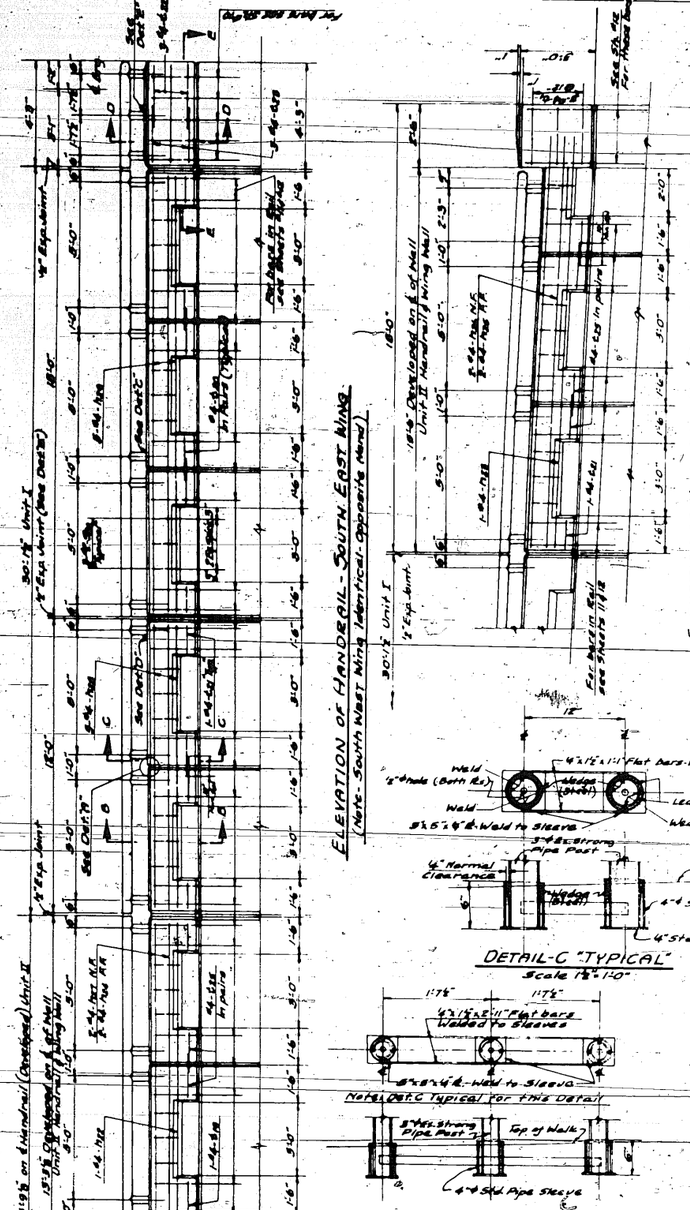


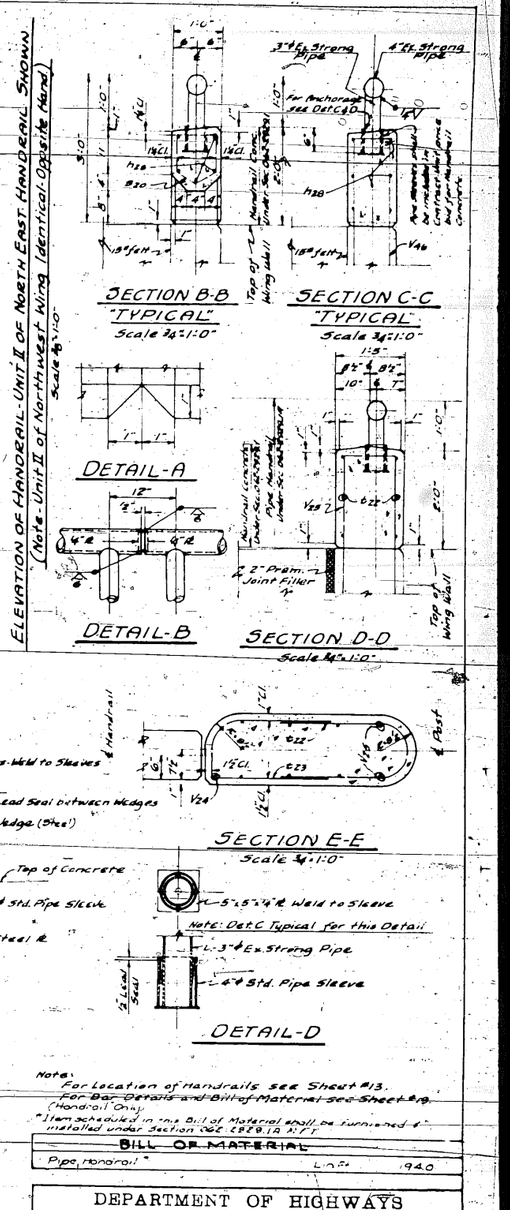


DEAD LOAD DEFLECTION DIAGRAM

NOTE: - Method of Determining Fillet Heights. - After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 ft. from these elevations subtract the increment of deflection for these points, determined from the D.L. deflection diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness, equals the fillet height.

D.L. DEFLECTIONS IN INCHES					
BEAM No	A	B	C	D	E
1-2-11 & 12	5/16	7/8	1/8	1/64	3/16
3-4-5-8 & 9-10-13	7/16	5/16	5/16	0	1/32
6 & 7	3/8	1/2	1/8	0	1/64





Note: All sleeves shall be furnished and installed by contractor for Section 062-2929.1 and cost included in Handrail Concrete.

Note: For Location of Handrails see Sheet #13. For Bar Details and Bill of Material see Sheet #9 (Handrail Only).

* Item scheduled in this Bill of Material shall be furnished & installed under Section 062-2929.1A M.F.T.

BILL OF MATERIAL

	L.F.
Pipe, handrail *	1940

REVISIONS

DATE	BY	DESCRIPTION
11-17-52	F.S.R.	Sleeves* Incl. in Hndrl. Conc.

DEPARTMENT OF HIGHWAYS
COUNTY OF COOK, ILLINOIS

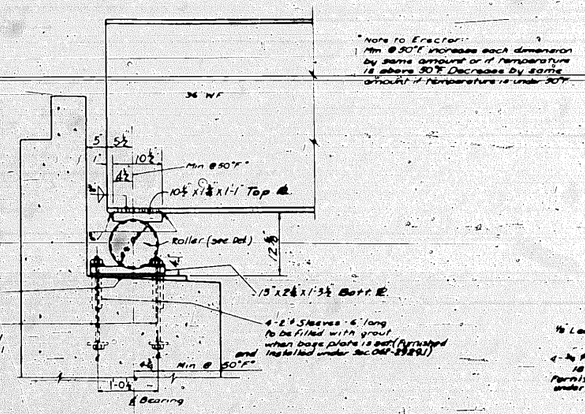
WILLIAM N. ERICKSON, PRESIDENT BOARD OF COMMISSIONERS
GEORGE A. QUINLAN, SUPERINTENDENT OF HIGHWAYS

STRUCTURAL STEEL DETAILS
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN
CHECKED
PROJECT U.I. 281 (61)
SCALE
APPROVED

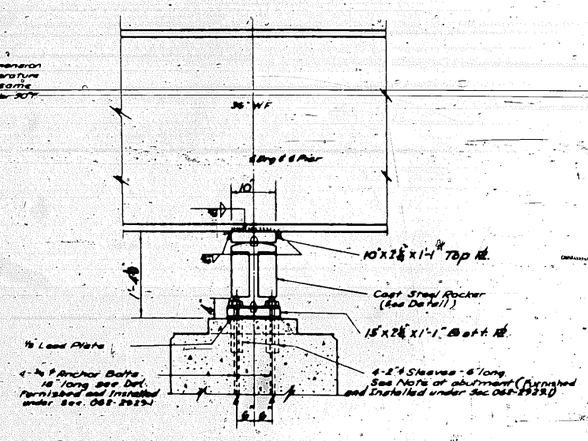
APPROVED July 9, 1952
Duncan M. Campbell
CHIEF ENGINEER

Federal Aid Route No.	State Aid Route No.	Sheet No.	Total Sheets	Drawing No.
131	062-2929.1 M.F.T. 062-2929.1A M.F.T.	6		CP860-9

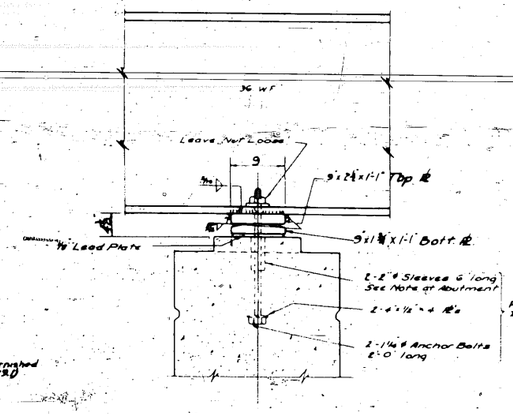


SECTION THRU ABUTMENT

*Note to Erector:
1 Min @ 50°F increase each dimension by same amount if temperature is above 50°F. Decrease by same amount if temperature is under 50°F.



SECTION THRU PIER NO. 1



Furnished and Installed under 062-2929.1

SECTION THRU PIER NO. 2

TABLE			
LEAD PLS.	13" x ⅛" x 1'-3"	12	120
" "	9" x ⅛" x 1'-1"	12	72
" "	13" x ⅛" x 1'-3½"	24	248
WELD	⅜" ϕ 36"	184	②
WEIGHT OF ROCKERS, ROLLERS, PLATES AND WELD -- Lbs 18,700			
TOTAL WEIGHT		Lbs 19,140	

② Weight included with Plates

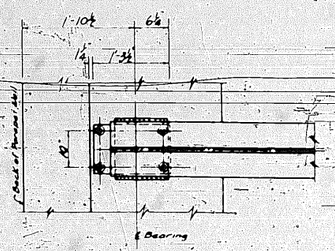
Notes

Rollers shall be turned down from a solid bar. For all plates in contact with the rollers, the edges adjacent to the collars shall be rolled, cut square or finished.

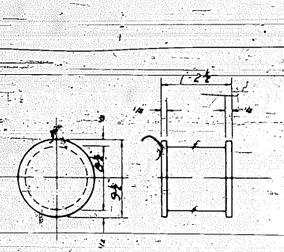
Estimated weights of rollers, rockers, steel ϕ's, load ϕ's, anchor bolts and welds, side sleeves are included in the weight of structural steel.

Cast steel shall conform to the Tentative Specifications for Mild-to-Medium-Strength Carbon Steel Castings for General Application, A S T M A 27 Grade 65-35 Full Annealed.

Unless otherwise noted, items 5 - 8 on the chart will be furnished and installed under Section 062-2929.1 A. Pipe sleeves will be temporarily plugged with wood washers. Cost included in contract price bid for Item 0533.1 in Section 062-2929.1.

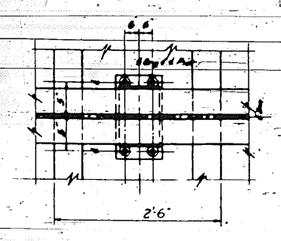


PLAN

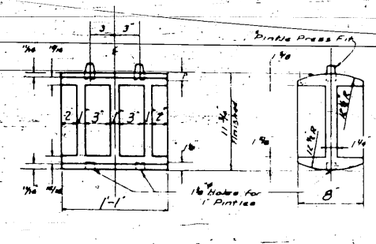


DETAIL OF ROLLERS

24 Req'd. Wt. = 6,989

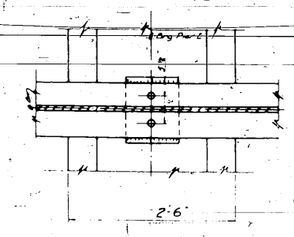


PLAN

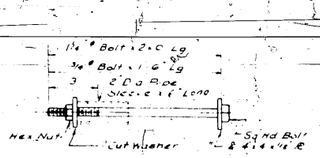


DETAIL OF CAST STEEL ROCKERS AT PIER NO. 1

12 Req'd. Wt. = 2291# ① Wt. includes pintles



PLAN



DETAIL OF ANCHOR BOLTS

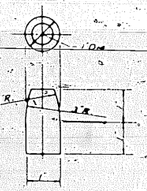
WILL BE FURNISHED AND INSTALLED UNDER SECTION 062-2929.1

ITEM	SIZE	NO.	WEIGHT
ANCHOR BOLTS	1¼" ϕ	48	708
ANCHOR BOLTS	3" ϕ	24	284
ANCHOR PLATES	3"x1"	108	307
			1310#

① Wt. of Washer & Plates Included

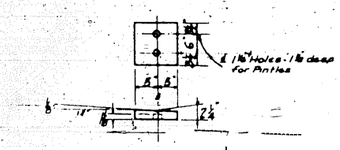
DETAIL OF TOP PLATE AT ABUTMENTS

24 Req'd. Wt. = 1300# ① Wt. includes weld



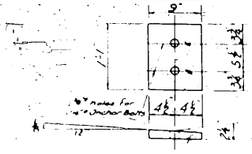
DETAIL OF PINTLE

16 Required



DETAIL OF TOP PLATE AT PIER NO. 1

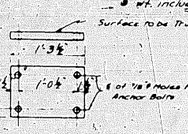
12 Req'd. Wt. = 1138# ① Wt. includes weld



DETAIL OF TOP PLATE AT PIER NO. 2

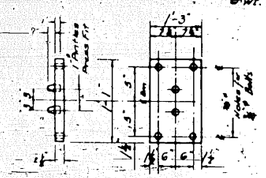
12 Req'd. Wt. = 1023# ① Wt. includes weld

Surface to be True & Smooth



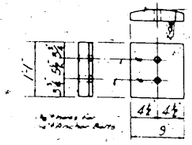
DETAIL OF BOTTOM PLATE AT ABUTMENTS

24 Req'd. Wt. = 3,128



12 Req'd. Wt. = 1527# ① Wt. includes pintles

DETAIL OF BOTTOM PLATE AT PIER NO. 1



12 Req'd. Wt. = 709#

DETAIL OF BOTTOM PLATE AT PIER NO. 2

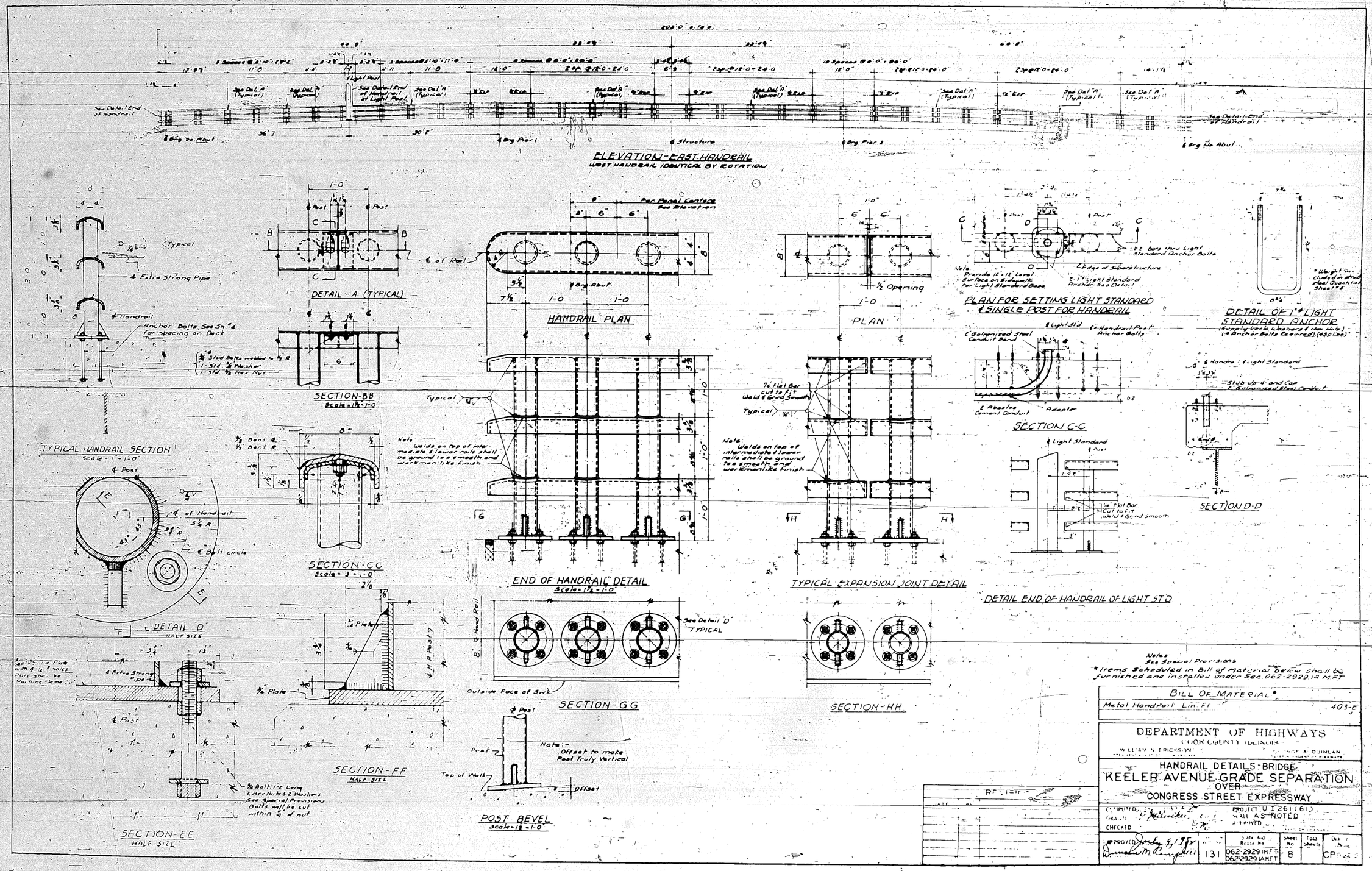
REVISIONS		
DATE	BY	DESCRIPTION

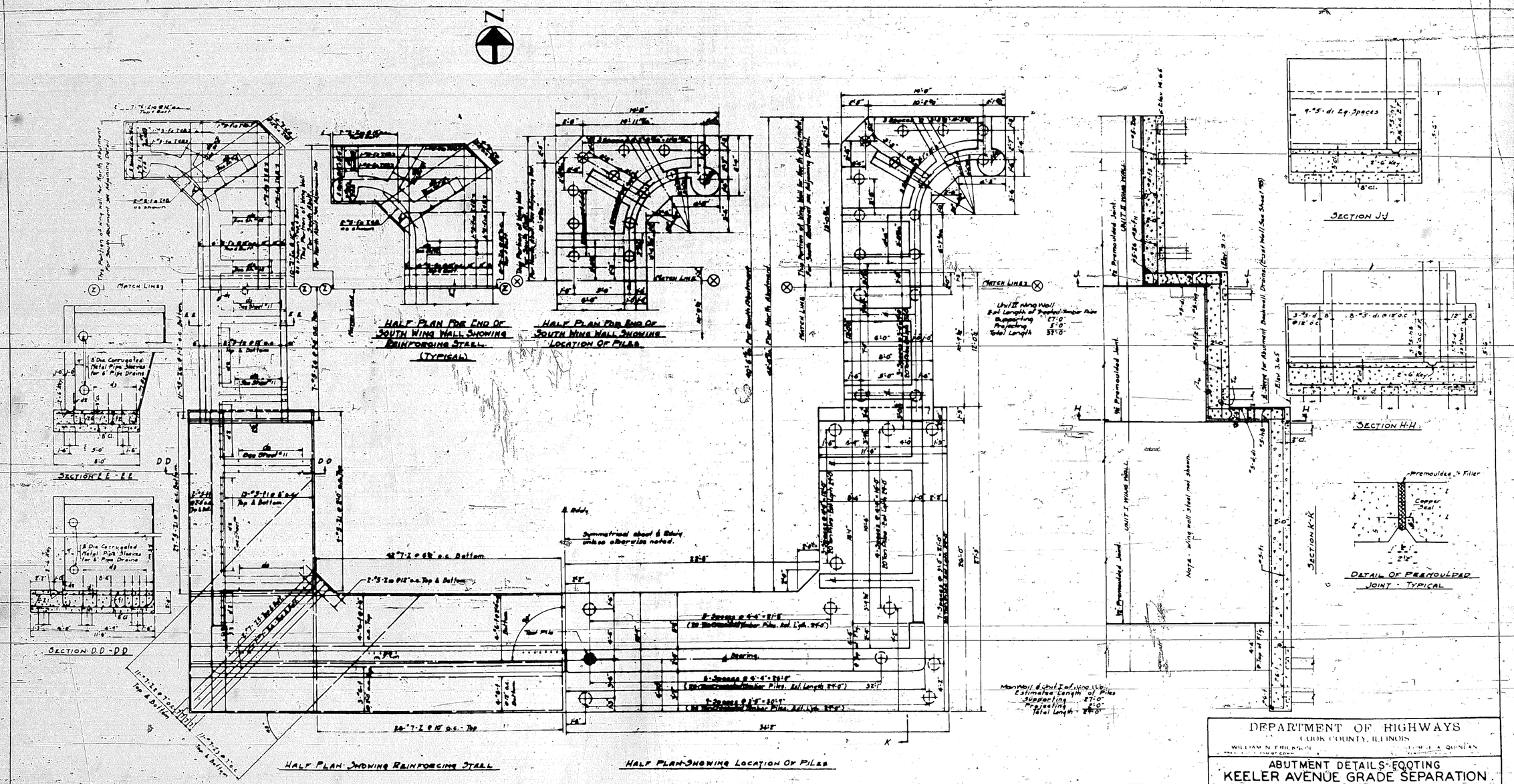
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM N. ERICKSON — GEORGE A. QUIRK, JR.

ROCKERS, ROLLERS & BEARING PLATES
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN
CHECKED
PROJECT U.I. 261 (E)
SCALE
APPROVED

APPROVED	Federal Aid Route No.	State Aid Route No.	Sheet No.	Total Sheets	Drawing No.
Chief Engineer	131	062-2929.1(M.F.T.) 062-2929.1(AM.F.T.)	7		C-2930-5


ELEVATION-EAST HANDRAIL
WEST HANDRAIL IDENTICAL BY ROTATION
HANDRAIL PLAN
PLAN
DETAIL-A (TYPICAL)
SECTION-BB
TYPICAL HANDRAIL SECTION
SECTION-CC
DETAIL 'D'
SECTION-FF
SECTION-EE
END OF HANDRAIL DETAIL
SECTION-GG
POST BEVEL
TYPICAL EXPANSION JOINT DETAIL
SECTION-HH
PLAN FOR SETTING LIGHT STANDARD & SINGLE POST FOR HANDRAIL
SECTION C-C
DETAIL OF 1" LIGHT STANDARD ANCHOR
SECTION D-D
DETAIL END OF HANDRAIL OF LIGHT STD
Note
See Special Provisions
*Items Scheduled in Bill of Material Below shall be furnished and installed under Sec. 062-2929 IA MFT
BILL OF MATERIAL*
Metal Handrail Lin. Ft. 403-E
DEPARTMENT OF HIGHWAYS
UNION COUNTY ILLINOIS
HANDRAIL DETAILS-BRIDGE
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U I 261(61)
SCALE AS NOTED
131
062-2929 IMFT
062-2929 IAMFT
8
CP



Plan Of North Abutment Footing

South Abutment Footing Identical Except As Noted.

Note: For Abutment & Wing Wall Bkd. Drains - See Sheet 18
For Pile Schedule & Bill Of Materials - See Sheet 19

REVISIONS		
DATE	BY	DESCRIPTION

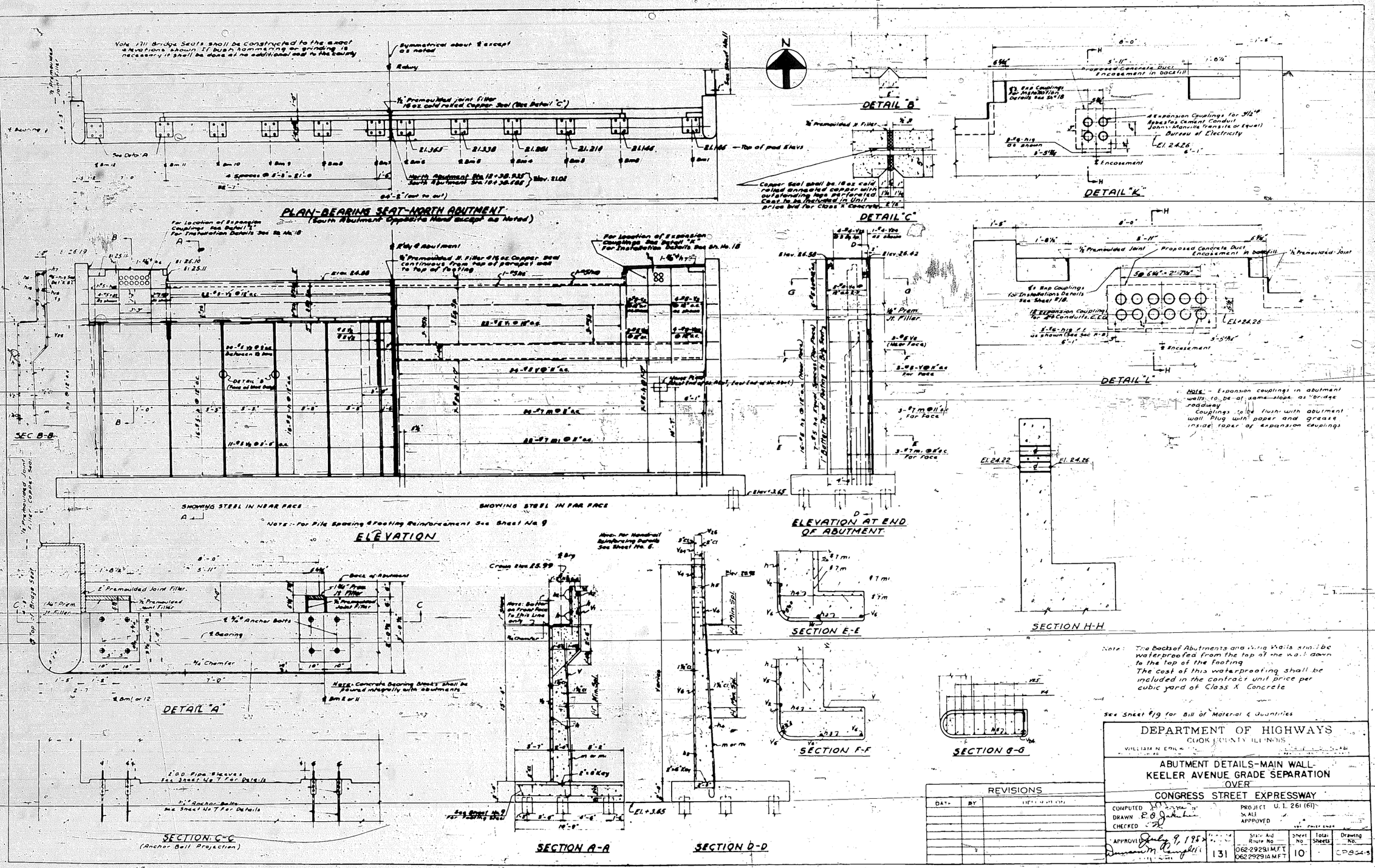
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

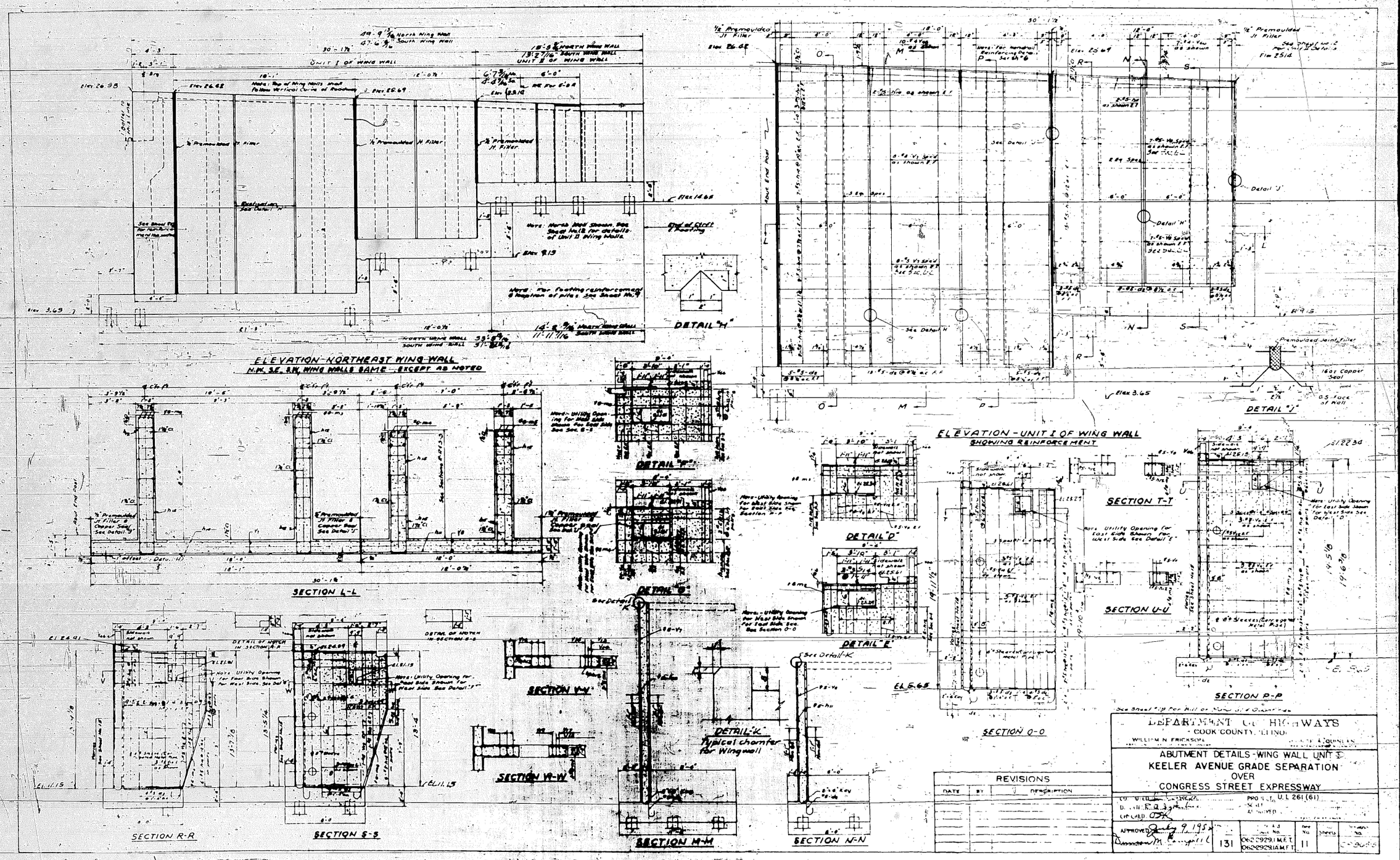
WILLIAM N. ERICKSON, PRESIDENT, BOARD OF COUNTY COMMISSIONERS — ROBERT A. QUINLAN, ENGINEER

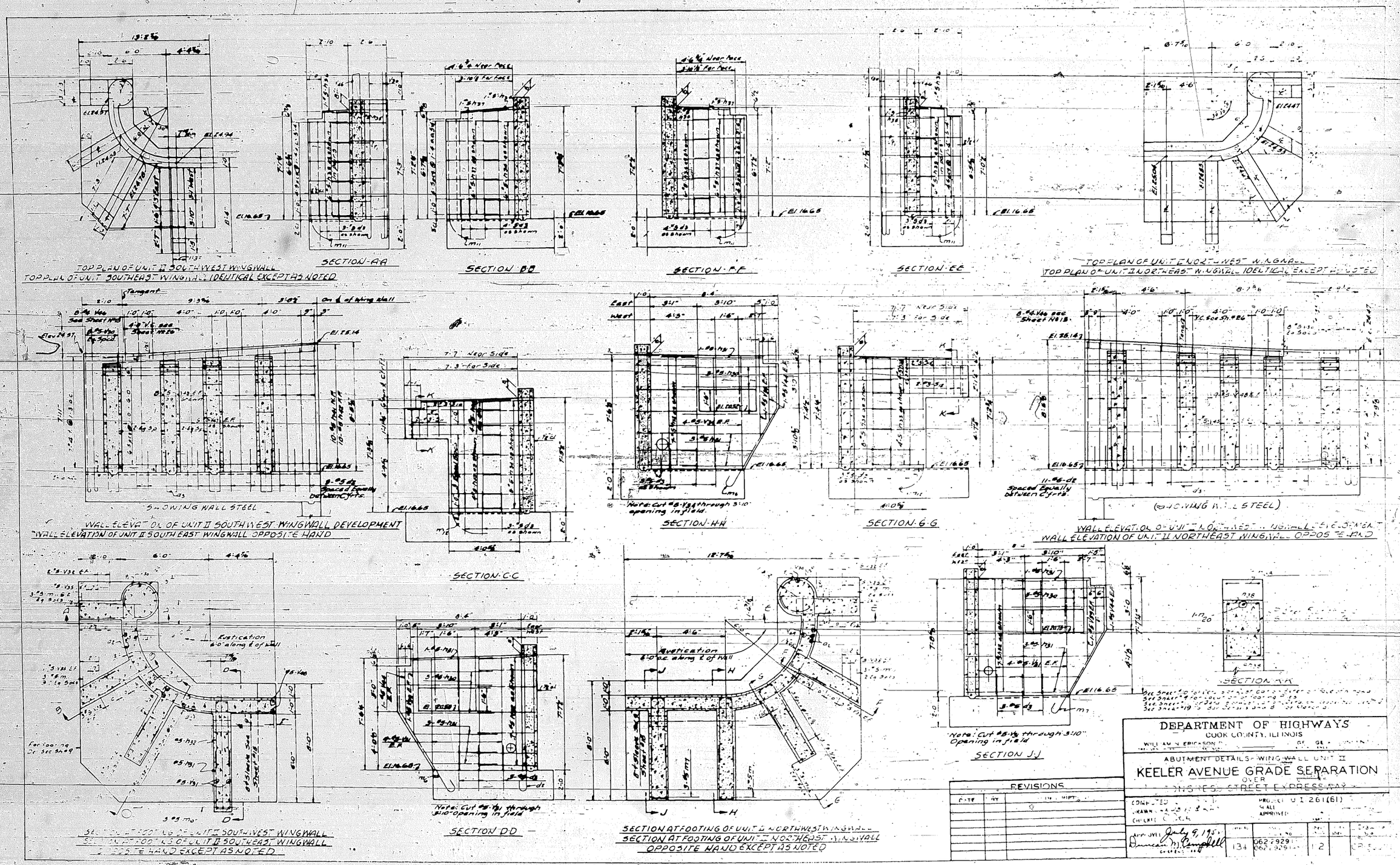
ABUTMENT DETAILS-FOOTING
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

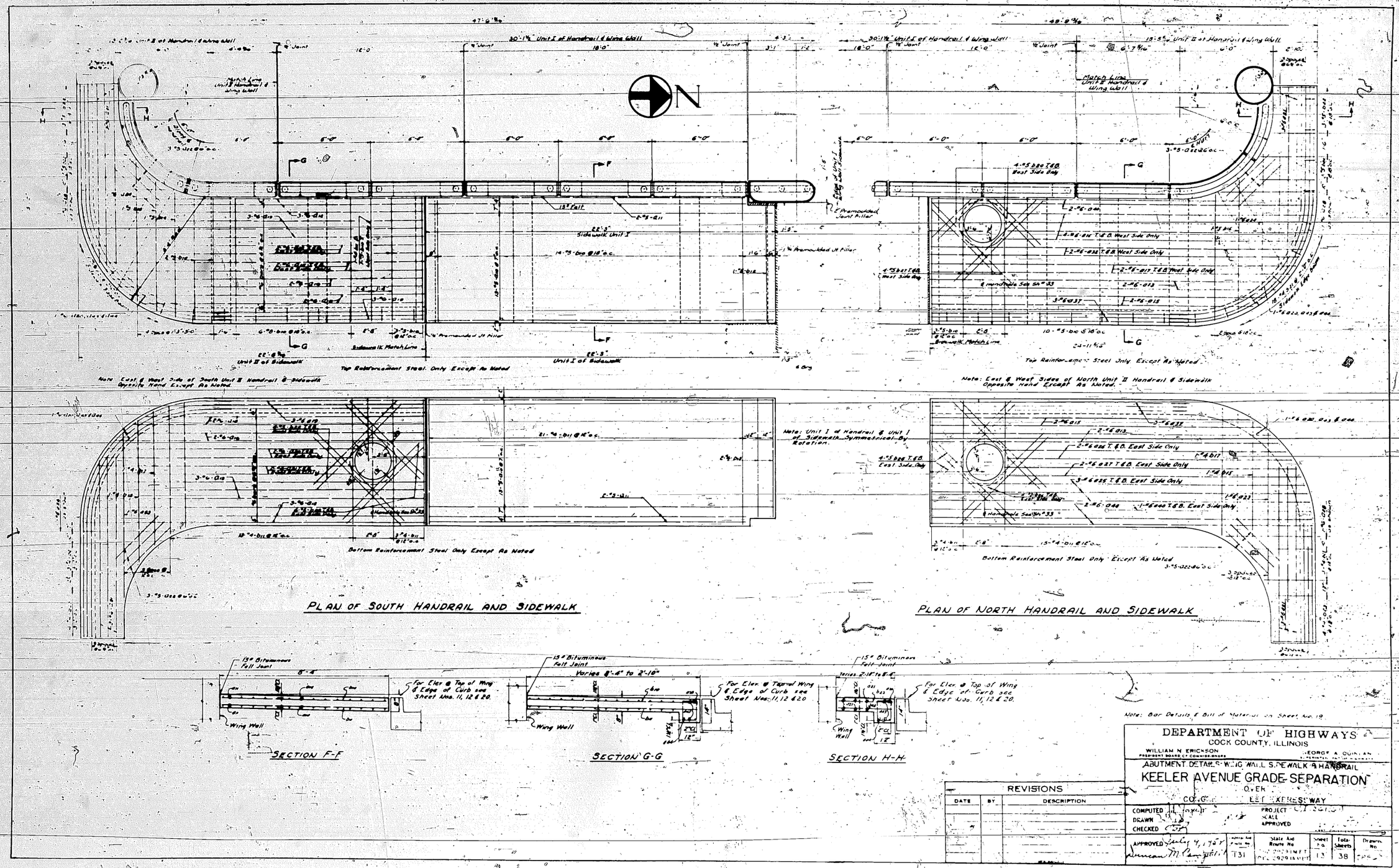
COMPUTED [illegible] PROJECT U.I 261 (61)
DRAWN [illegible] W.H.T. STATE APPROVED
CHECKED [illegible]
APPROVED July 9, 1956 Duncan M. Campbell

Total Sheets	State Aid Route No.	Sheet No.	Total Sheets	Drawing No.
131	062-2929 I.M.F.T. 062-2929 IA M.F.T.	9		CP [illegible]


PLAN-BEARING SEAT-NORTH ABUTMENT
(South Abutment Opposite Hand except as Noted)
ELEVATION
SEC B-B
DETAIL "A"
DETAIL "B"
DETAIL "C"
DETAIL "K"
DETAIL "L"
ELEVATION AT END OF ABUTMENT
SECTION E-E
SECTION F-F
SECTION G-G
SECTION H-H
SECTION A-A
SECTION D-D
SECTION C-C
(Anchor Bolt Projection)
SHOWING STEEL IN NEAR FACE
SHOWING STEEL IN FAR FACE
Note:- For Pile Spacing & Footing Reinforcement See Sheet No. 9
Note: Concrete Bearing Blocks shall be poured integrally with abutments
Note: Expansion couplings in abutment walls to be at same slope as bridge roadway
Couplings to be flush with abutment wall. Plug with paper and grease inside taper of expansion couplings
Note: The Backs of Abutments and Wing Walls shall be waterproofed from the top of the wall down to the top of the footing
The cost of this waterproofing shall be included in the contract unit price per cubic yard of Class X Concrete
See Sheet #19 for Bill of Material & Quantities
DEPARTMENT OF HIGHWAYS
COOK COUNTY ILLINOIS
ABUTMENT DETAILS-MAIN WALL-
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY
REVISIONS
DATE
BY
COMPUTED
DRAWN
CHECKED
PROJECT U. I. 261 (61)
SCALE
APPROVED
APPROVED July 9, 1956
131
State Aid Route No. 062-29291 M.F.T. 062-29291A M.F.T.
Sheet No. 10
Total Sheets
Drawing No. CP 864-5


ELEVATION-NORTHEAST WING WALL
N.W., S.E., S.W. WING WALLS SAME EXCEPT AS NOTED
ELEVATION-UNIT I OF WING WALL
SHOWING REINFORCEMENT
DETAIL "H"
DETAIL "J"
DETAIL "P"
DETAIL "D"
DETAIL "G"
DETAIL "E"
DETAIL "K"
Typical chamfer for Wingwall
SECTION L-L
SECTION T-T
SECTION U-U
SECTION P-P
SECTION O-O
SECTION V-V
SECTION W-W
SECTION R-R
SECTION S-S
SECTION M-M
SECTION N-N
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM N. FRICKSON
ABUTMENT DETAILS - WING WALL UNIT I
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY
REVISIONS
DATE
BY
DESCRIPTION
APPROVED
131
11


TOP PLAN OF UNIT II SOUTHWEST WINGWALL
TOP PLAN OF UNIT SOUTHEAST WINGWALL IDENTICAL EXCEPT AS NOTED
SECTION-AA
SECTION BB
SECTION-FF
SECTION-EE
TOP PLAN OF UNIT I NORTHWEST WINGWALL
TOP PLAN OF UNIT I NORTHEAST WINGWALL IDENTICAL EXCEPT AS NOTED
SHOWING WALL STEEL
WALL ELEVATION OF UNIT II SOUTHWEST WINGWALL DEVELOPMENT
WALL ELEVATION OF UNIT II SOUTHEAST WINGWALL OPPOSITE HAND
SECTION-C-C
SECTION-H-H
SECTION-G-G
(SHOWING WALL STEEL)
WALL ELEVATION OF UNIT I NORTHWEST WINGWALL DEVELOPMENT
WALL ELEVATION OF UNIT I NORTHEAST WINGWALL OPPOSITE HAND
Note: Cut #8-V32 through 3'-10" opening in field.
SECTION-J-J
SECTION-K-K
SECTION AT FOOTING OF UNIT II SOUTHWEST WINGWALL
SECTION AT FOOTING OF UNIT II SOUTHEAST WINGWALL
OPPOSITE HAND EXCEPT AS NOTED
SECTION DD
SECTION AT FOOTING OF UNIT I NORTHWEST WINGWALL
SECTION AT FOOTING OF UNIT I NORTHEAST WINGWALL
OPPOSITE HAND EXCEPT AS NOTED
Rustication 6'-0" along ℄ of wall
Rustication 2'-0" o.c. along ℄ of wall
Spaced Equally between Cyrs.
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
ABUTMENT DETAILS - WINGWALL UNIT II
KEELER AVENUE GRADE SEPARATION
OVER
EISENHOWER EXPRESSWAY
REVISIONS
July 9, 195
Duncan M. Campbell
134
062-7929
062-7929
12



DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

WILLIAM N. ERICKSON
PRESIDENT BOARD OF COMMISSIONERS

GEORGE A. QUINLAN
ENGINEER OF HIGHWAYS

ABUTMENT DETAILS, WING WALL, SIDEWALK & HANDRAIL

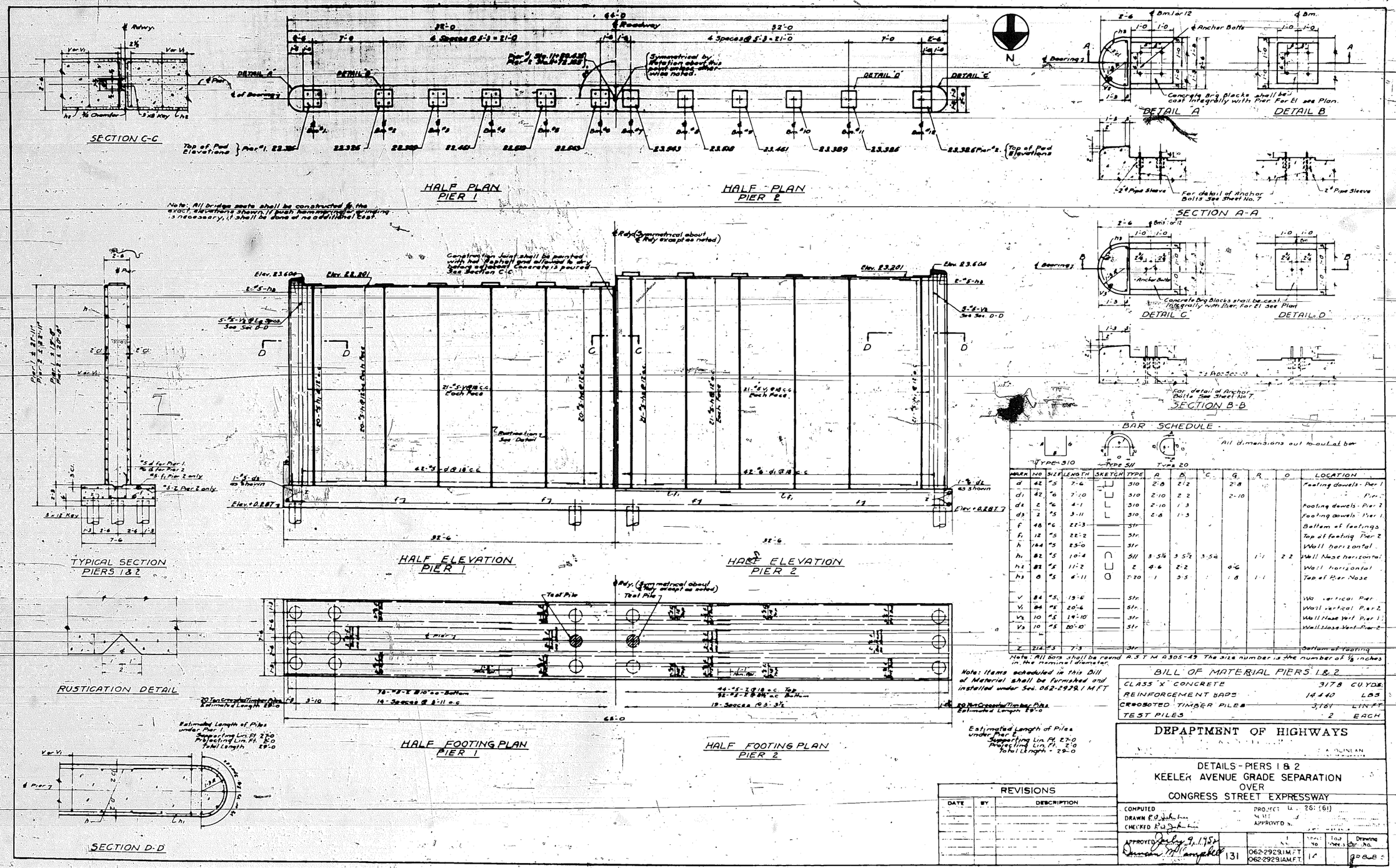
KEELER AVENUE GRADE SEPARATION
OVER
C.G.&E. EXPRESSWAY

REVISIONS		
DATE	BY	DESCRIPTION

COMPUTED
DRAWN
CHECKED
PROJECT
SCALE
APPROVED

APPROVED July 4, 1958
Duncan M. Campbell

Route No.	State Aid Route No.	Sheet No.	Total Sheets	Drawing No.
T31	C.H. 2929 (Keeler)	13	38	



BAR SCHEDULE

All dimensions out to out of bar

Type 510 — Type 511 — Type 20

MARK	NO	SIZE	LENGTH	SKETCH	TYPE	A	B	C	G	R	O	LOCATION
d	42	#5	7'-6		510	2'-8	2'-2		2'-8			Footing dowels - Pier 1
d1	42	#6	7'-10		510	2'-10	2'-2		2'-10			Pier
d2	6	#6	4'-1		510	2'-10	1'-3					Footing dowels - Pier 2
d3	2	#5	3'-11		510	2'-8	1'-3					Footing dowels - Pier 1
f	48	#6	22'-3		Str							Bottom of footings
f1	12	#5	22'-2		Str							Top of footing Pier 2
h	184	#5	25'-0		Str							Wall horizontal
h1	82	#5	10'-4		511	3'-5¼	3'-5¼	3'-5¼		1'-1	2 2	Wall Nose horizontal
h2	82	#5	11'-2		2	4'-6	2'-2		4'-6			Wall horizontal
h3	6	#5	6'-11		T-20	1	3'-5		1'-8	1'-1		Top of Pier Nose
v	84	#5	19'-6		Str							Wall vertical Pier 1
v1	84	#5	20'-6		Str							Wall vertical Pier 2
v2	10	#5	19'-10		Str							Wall Nose Vert Pier 1
v3	10	#5	20'-10		Str							Wall Nose Vert Pier 2
z	214	#5	7'-3		Str							Bottom of footing

Note: All bars shall be round in the nominal diameter. A.S.T.M. A305-49. The size number is the number of ⅛ inches.

Note: Items scheduled in this Bill of Material shall be furnished and installed under Sec. 062-2929.1 M.F.T.

BILL OF MATERIAL PIERS 1 & 2

CLASS "X" CONCRETE	317.8	CU YDS.
REINFORCEMENT BARS	14,440	LBS
CREOSOTED TIMBER PILES	3,161	LIN. FT.
TEST PILES	2	EACH

REVISIONS

DATE	BY	DESCRIPTION

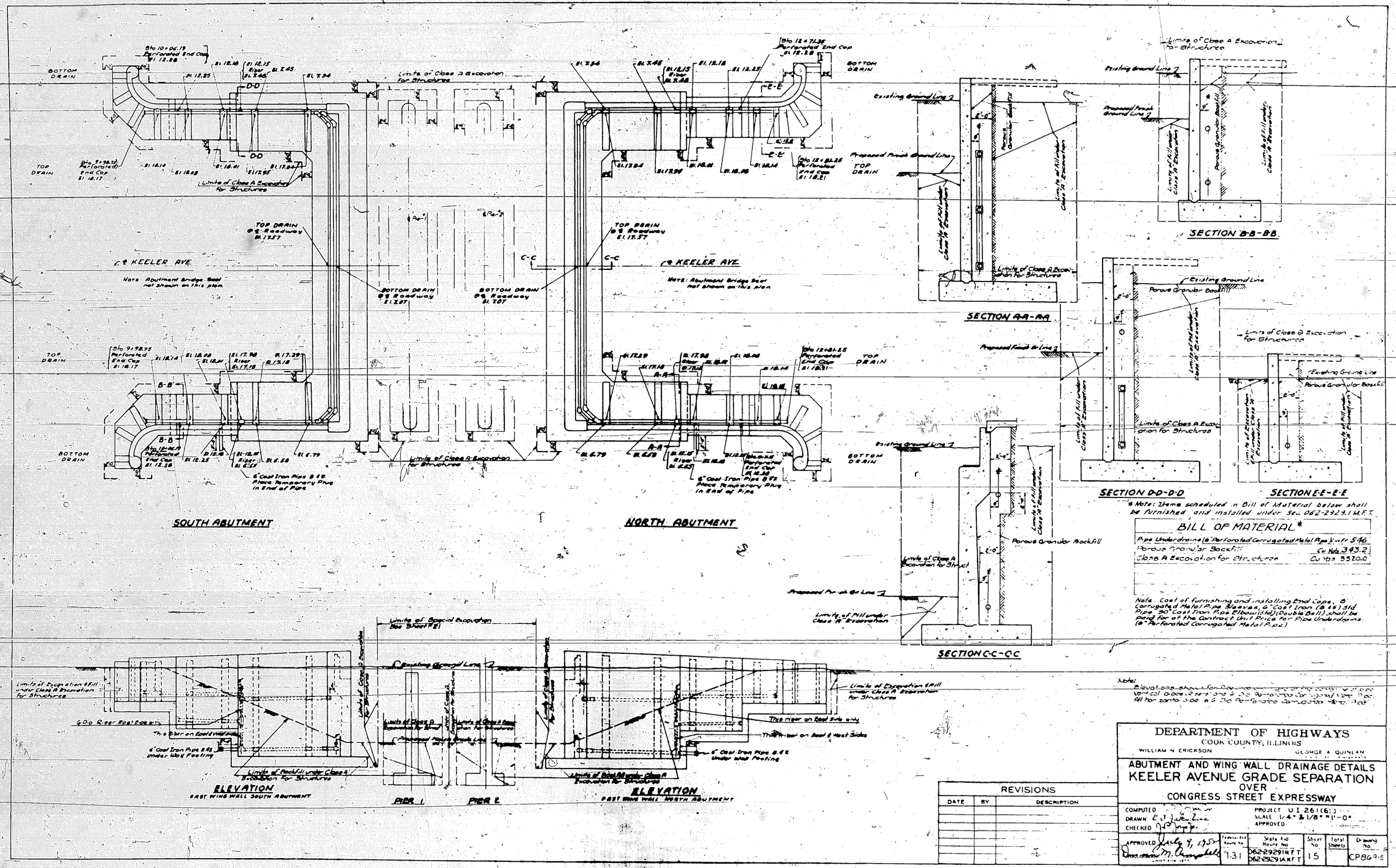
DEPARTMENT OF HIGHWAYS

DETAILS - PIERS 1 & 2
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN
CHECKED
PROJECT No. 25:(61)
APPROVED

APPROVED July 9, 1957

131	062-2929.1M.F.T.	14		9848
	062-2929.1A.M.F.T.			



* Note: Items scheduled in Bill of Material below shall be furnished and installed under Sec. 062-29231 M.F.T.

BILL OF MATERIAL*	
Pipe Underdrains (6" Perforated Corrugated Metal Pipe) Unit 546	
Porous Granular Backfill	Cu Yds 343.2
Class A Excavation for Structure	Cu Yds 352.0

Note: Cost of furnishing and installing End Caps, 6" Corrugated Metal Pipe Sleeves, 6" Cast Iron (B & S) Std Pipe, 90° Cast Iron Pipe Elbow (Std) (Double Bell) shall be paid for at the Contract Unit Price for Pipe Underdrains (6" Perforated Corrugated Metal Pipe)

Note:
Elevations shown for [illegible]
Vertical bars [illegible] for [illegible]
All horizontal bars [illegible] 6" Dia. Perforated Corrugated Metal Pipe

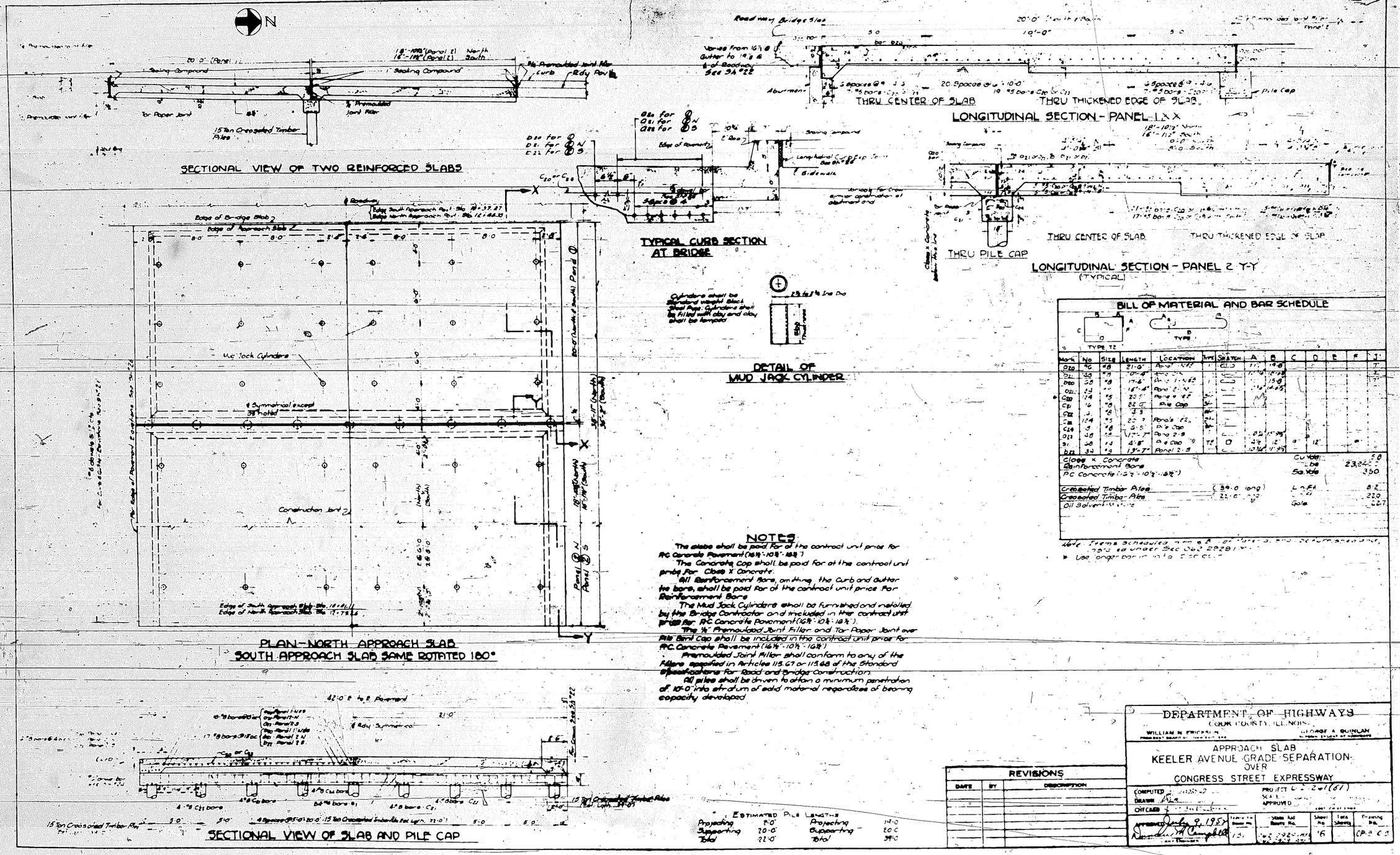
REVISIONS		
DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM N. ERICKSON — GEORGE A. QUINLAN

ABUTMENT AND WING WALL DRAINAGE DETAILS
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN E.J. Lutz Jr.
CHECKED J.P. Kopp
PROJECT U.I. 261(6)
SCALE 1/4" & 1/8" = 1'-0"
APPROVED

APPROVED July 9, 1955	Federal Aid Route No.	State Aid Route No.	Sheet No.	Total Sheets	Drawing No.
Chief Engineer	131	062-29291 M.F.T. 062-29291 M.F.T.	15		CP867-5



NOTES

The slabs shall be paid for at the contract unit price for PC Concrete Pavement (16½"-10½"-16½").

The Concrete Cap shall be paid for at the contract unit price for Class X Concrete.

All Reinforcement Bars, on the Curb and Gutter the bars, shall be paid for at the contract unit price for Reinforcement Bars.

The Mud Jack Cylinders shall be furnished and installed by the Bridge Contractor and included in the contract unit price for PC Concrete Pavement (16½"-10½"-16½").

The ½" Premoulded Joint Filler and Tar Paper Joint over Pile Bent Cap shall be included in the contract unit price for PC Concrete Pavement (16½"-10½"-16½").

Premoulded Joint Filler shall conform to any of the fillers specified in Articles 115.67 or 115.68 of the Standard Specifications for Road and Bridge Construction.

All piles shall be driven to attain a minimum penetration of 10'-0" into stratum of solid material regardless of bearing capacity developed.

BILL OF MATERIAL AND BAR SCHEDULE

Mark	No	Size	Length	Location	Type	Sketch	A	B	C	D	E	F	J
D20	70	#8	21'-0"	Panel 1-N	1	D20	17½	19-0					7
D21	35	#8	10'-4"	Panel 1-N			17½	19-0					7
D22	35	#8	17'-6"	Panel 1-N	1			15-0					7
D23	35	#8	16'-4"	Panel 2-N	1		14	14-5					
C20	174	#5	22'-0"	Panel 1-S	2								
C21	16	#8	22'-0"	Pile Cap	2								
C22	5	#8	7'-3"		2								
C23	174	#5	22'-7"	Panels 1-2	2								
C24	5	#8	6'-5"	Pile Cap	2								
D21	38	#8	17'-7"	Panel 2-S			D21	17'-7"					
S1	38	#4	4'-8"	Pile Cap	T2	D	4½	12	9	12		9	
B22	34	#8	13'-7"	Panel 2-S			13'-7"	17'-7"					

Class X Concrete		Cu. Yds.	58
Reinforcement Bars		Lbs.	23,240
PC Concrete (16½"-10½"-16½")		Sq. Yds.	350
Creosoted Timber Piles	(39'-0" long)	L.F. Pile	812
Creosoted Timber Piles	(22'-0" long)		220
Oil Solvent Mixture		Gals.	227

Note: Items scheduled on B.M. of June 3, 1960 to be furnished and paid for under Sec. 062 29281 M.

▶ Use anger bar in lieu of Sec. C.

Estimated Pile Lengths			
Projecting	8'-0"	Projecting	14'-0"
Supporting	20'-0"	Supporting	20'-0"
Total	22'-0"	Total	34'-0"

REVISIONS		
DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

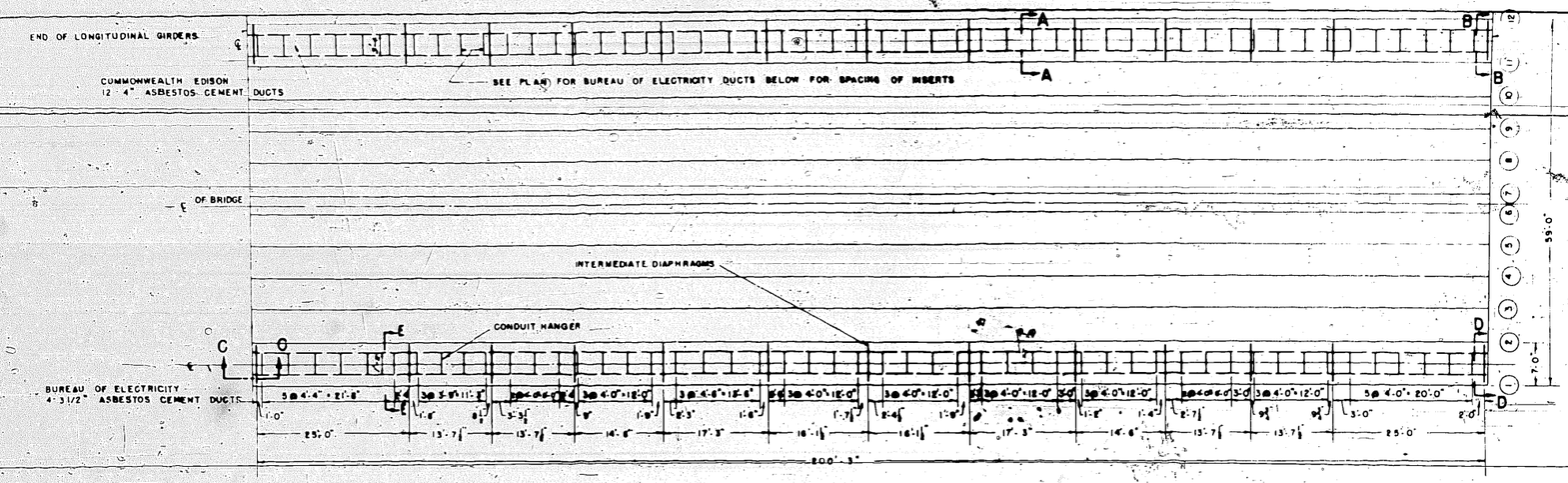
WILLIAM N. ERICKSON, President, Board of Highway Commissioners — GEORGE A. QUINLAN, Highway Engineer of Highways

APPROACH SLAB
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN
CHECKED
PROJECT C-2-61(61)
SCALE
APPROVED

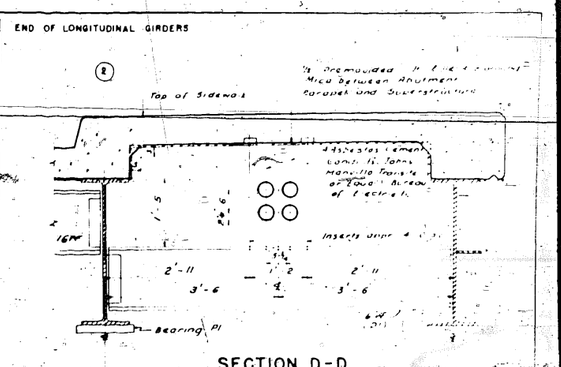
July 9, 1957

Index No.	Sheets Add Sheets No.	Sheet No.	Total Sheets	Drawing No.
131	062 29281 M	16		CP-2 C-3



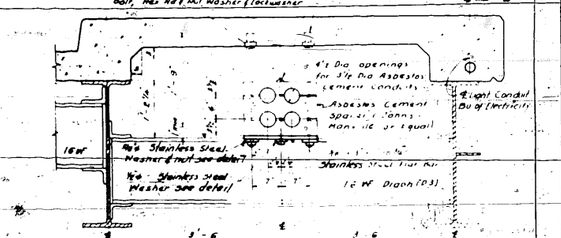
PLAN

LOCATION OF CONDUIT HANGERS
SCALE 1/8" = 1'-0"



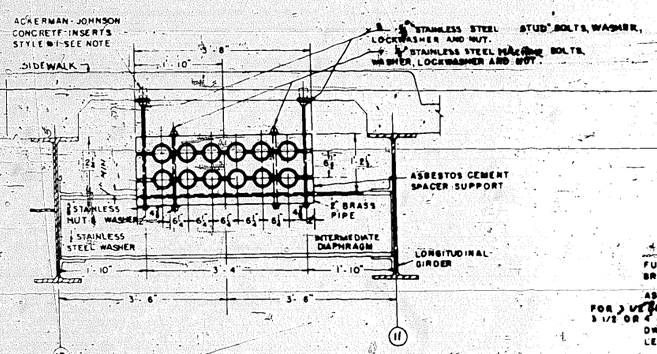
SECTION D-D

SECTION AT ABUTMENTS



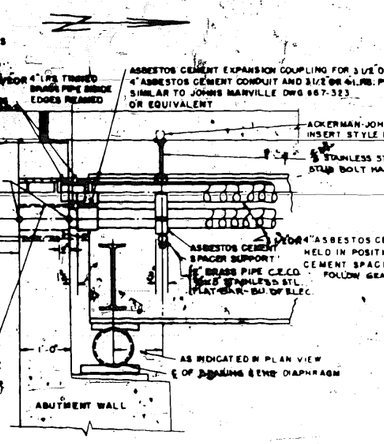
SECTION E-E

TYPICAL CONDUITS SECTION AT HANGER



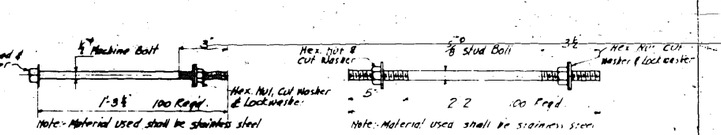
SECTION A-A

TYPICAL CONDUIT SECTION AT HANGER



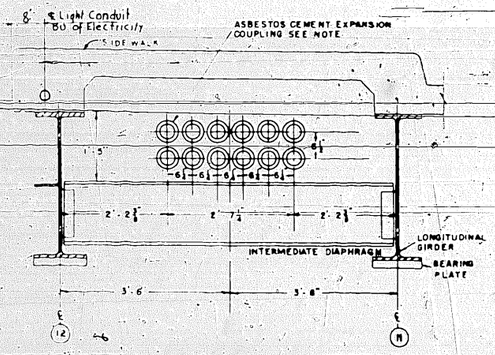
SECTION "C-C"

EXPANSION COUPLING ASSEMBLY DETAIL AT ABUTMENTS (TYPICAL)
SCALE 1/4" = 1'-0"



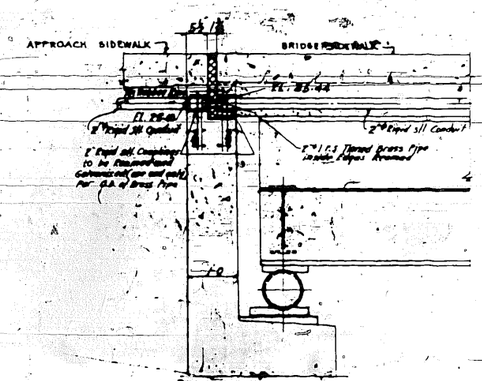
DETAIL OF MACHINE BOLT
BUREAU OF ELECTRICITY HANGER

DETAIL OF CONDUIT HANGER BOLT
BUREAU OF ELECTRICITY



SECTION B-B

SECTION AT ABUTMENTS
Scale 3/4" = 1'-0"



2" LIGHT CONDUIT EXPANSION COUPLING DETAIL

NOTE:
HOLES IN STAINLESS STEEL FLAT BAR & ASBESTOS CEMENT SPACERS SHALL BE DRILLED 3/8" FOR 1/4" BOLTS AND 5/8" FOR 1/2" BOLTS.
CUT 1/4" STUD BOLTS FLUSH WITH NUT, PEEN, CENTER PUNCH, OR SPOT WELD AT THREAD LINE TO PREVENT NUT FROM TURNING.
STAINLESS STEEL USED FOR BUREAU OF ELECTRICITY HANGER DETAIL SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 430

NOTE
THE COMMONWEALTH EDISON CO SHALL FURNISH ALL CONDUIT COUPLINGS, EXPANSION SLEEVES AND HANGER MATERIAL REQUIRED, AND WILL INSTALL ALL MATERIAL EXCEPT THE HANGER INSERTS IN THE ROADWAY AND THE EXPANSION COUPLINGS IN THE ABUTMENT WALLS. THE EXPANSION COUPLINGS AND INSERTS WILL BE DELIVERED TO THE BRIDGE CONTRACTOR WHO SHALL INSTALL THEM AS PART OF THE BRIDGE CONTRACT

REVISIONS

DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM N. ERICKSON, PRESIDENT BOARD OF COMMISSIONERS
GEORGE A. QUINLAN, SUPERINTENDENT OF HIGHWAYS

UTILITY CONDUIT DETAILS
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN
CHECKED
PROJECT
SCALE
APPROVED

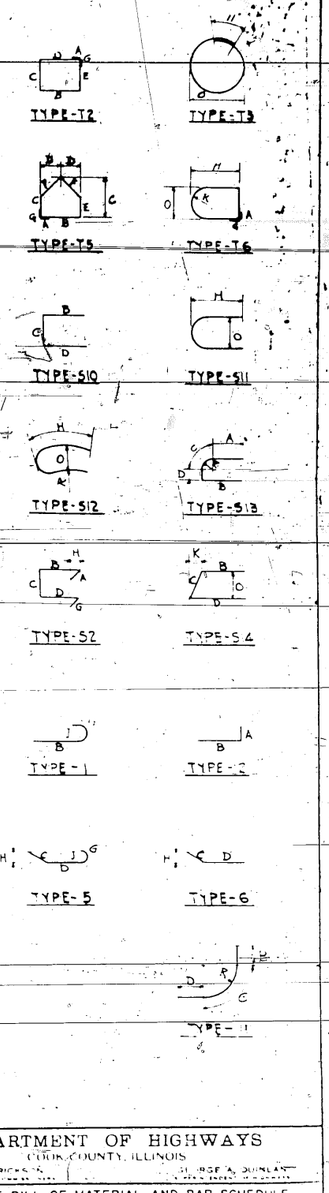
APPROVED July 9, 1962 Duncan M. Campbell	Federal Aid Route No.	State Aid Route No.	Sheet No.	Total Sheets

BAR SCHEDULE

MARK	NO	SIZE	LENGTH	SKETCH	TYPE	LOCATED ON SH. NO. 6	10	11	12	13	A	B	C	D	E	F	G	H	J	K	R	O
d10	104	5	22-0							104												
d11	16	5	20-0							16												
d12	12	6	22-8							12												
d13	20		22-0							20												
d14	4		21-6							4												
d15	12		20-9							12												
d16	16		4-7							16												
d17	4		3-2							4												
d18	8		18-6							8												
d19	12		12-7							12												
d20	8		21-5		11					8	7-5	12-9	1-3								7-6	
d21	24	6	11-6							24												
d22	24	5	4-0							24												
d23	4	6	10-3							4												
d24	4		4-1							4												
d25	6		24-2							6												
d26	4		13-3							4												
d27	4		10-9							4												
d28	8		6-0							8												
d30	4		16-3							4												
d31	4		17-0							4												
d32	4	6	23-9							4												
d37	12	6	15-9							12												
d40	10	6	24-6							10												
d43	8	6	21-0		11					8	7-5	12-4	1-3								7-10	
d44	8	6	20-8		11					8	7-5	12-0	1-3								7-10	
b10	105	5	8-2							105												
b11	153	4	8-2							153												
b12	4	5	7-8							4												
b13	8	4	7-8							8												
b14	2	5	8-4							2												
b15	4	4	9-6							4												
b16	4	5	8-9							4												
b17	4	4	8-9							4												
b20	16	5	3-6							16												
b21	12	4	3-3							12												
b22	12	5	2-8							12												
b23	16	4	2-8							16												
b26	16	5	8-0							16												
b27	8	5	7-6							8												
b28	16	5	6-9							16												
l1	40	#4	8-0		T3	12				28												2-3
l19	2	#4	6-9		S12	2						3-0	9	3-0								5-1
l20	24		4-7		S10	24						1-11	9	1-11								
l21	20		3-3		S10	20						1-3	9	1-3								
l22	12		6-3		S11	12										2-5					1-2	
l23	12		5-9		S13	12						1-10	2-5	11	7						7	
l24																						
l25	12	#4	4-9		S12	12						2-0	9	2-0								
s10	4	#3	7-4		T2				4		5	1-0	2-3	1-0	2-3		5					
s11	4	3	6-4		T2				4		5	1-0	1-9	1-0	1-9		5					
s12	4	3	6-6		T2				4		5	1-0	1-10	1-0	1-10		5					
s14	6	3	4-0		T2		6				5	1-0	1	1-0	1		5					
s15	4	3	7-6		T2			4			5	1-0	2-4	1-0	2-4		5					
s20	88	#4	3-11		T5	88					3¼	9½	12½	4¾	9½	5¾	3¼					
s21	70	#4	2-0		T2					70	5	0	11	0	11		9					

MARK	NO	SIZE	LENGTH	SKETCH	TYPE	6	10	11	12	13	A	B	C	D	E	F	G	H	J	K	R	O
Y	148	5	7-6						148													
Y1	92		9-8		6				92				4-0	5-8						2-10		
Y2	44		17-11		2				44			2-9	15-2									
Y3	120		5-0						120													
Y4	40		6-9						40													
Y5	120		8-7		2				120			2-9	5-10									
Y6	10		15-1						18													
Y7	128		10-10						128													
Y8	112		7-9						112													
Y9	36		18-7						36													
Y10	20		17-6						20													
Y11	36		19-3						36													
Y12	20		16-6						20													
Y13	8		6-10						8													
Y14	16		10-0						16													
Y15	4		12-3						4													
Y16	12		13-4						12													
Y17	8		7-6						8													
Y18	8		8-9						8													
Y19	4		12-0						4													
Y20	20		13-1						20													
Y21	8		9-10						8													
Y22	28		10-1		6				28					3-7	6-6					2-10		
Y23	28	#5	6-6						28													
Y24	4	#4	4-6						4													
Y25	16	#4	9-8		5H				16				4-3½	11	4-3½							
Y30	32	#5	11-8						32				11-1					7		5		
Y31	32	5	7-4						32													
Y32	64	5	7-0						64													
Y33																						
Y34	16	5	7-9						16													
Y35	16	5	6-6						16													
Y39	12	5	4-8						12													
Y44	12	5	3-6						12													
Y45	28	5	7-10						28													
Y46	190	#4	7-8		5H				68	32		3-3	8	3-6					1		7½	
Y47	20	#5	7-8							20												
Y48	68	#5	8-0							68												

MARK	NO	SIZE	LENGTH	SKETCH	TYPE	6	10	11	12	13	A	B	C	D	E	F	G	H	J	K	R	O
2-6	12-7																	1-7½				
1-3	12-0																	10½				
2-6	10-10																	1-7½				
m7	148	#4	10-4		1				148			10-0					9		6½			
m11	144	#4	7-8		1				144			8-11					9		6½			
m2	16	#4	19-3		11			16				1-1	2-1	20-1							1-4	
m3	16	#4	19-0		11			16				1-1	2-1	19-10							1-4	
m4	12	#6	15-2		5			12					5-3	9-4			7	1-6				
m5	12	#6	14-10		5			12					4-11	9-4			7	1-5				
m6	12	#5	9-9		5		12						2-9	6-4			7	1-4	5			
m7	6	#5	9-9		5		6						2-9	6-5			7	1-4	5			
m8	84	#5	9-9		11			24				1-1	2-1	6-7							1-4	
m9	12	#5	10-3		11			12				1-1	2-1	7-3							1-4	
d	16	5	10-6		10	16							4-3	1-0	4-9							
d1	68	5	10-0		12	68						9	6-9	1-0	6-9		9	6				
d2	188	5	8-5		1			188	40				2-10				7			5		
d3	146	5	6-7		11			88	58				2-10	11	2-10							
z	280	7	10-6			280																
z1	156	5	11-3			156																
z2	88	7	16-0			88																
z3	88	7	14-11			88																
z4	8	7	16-9			8																
z6	16	7	16-3			16																
z6	144	5	7-9			144																
z8	32	5	8-6			32																
z10	72	5	8-0			72																



BILL OF MATERIAL		
CLASS X CONCRETE	CU. YD'S	707.6
HAND RAIL CONCRETE	" "	14.2
REINFORCING BARS	LBS	82,600.0
OIL SOLVENT MIXTURE	GAL'S	11.4
CREOSOTED TIMBER PILES (29'-0 LG.)	LIN. FT.	4,582
CREOSOTED TIMBER PILES (32'-0 LG.)	LIN. FT.	2,688
TEST PILES	EACH	2

NOTE:-
Bar schedule and Bill of Material includes Quantities for Abutment main Walls and Footings, Wing Walls and Footings, Wing Sidewalk and Hand Rail.
Only Bar Mark used are shown.
Item scheduled in Bill of Material shall be Furnished & Installed under section 062-2029-1 M.F.T
see sh.#6 for Pipe Hand Rail Quantity

REVISIONS		
DATE	BY	DESCRIPTION

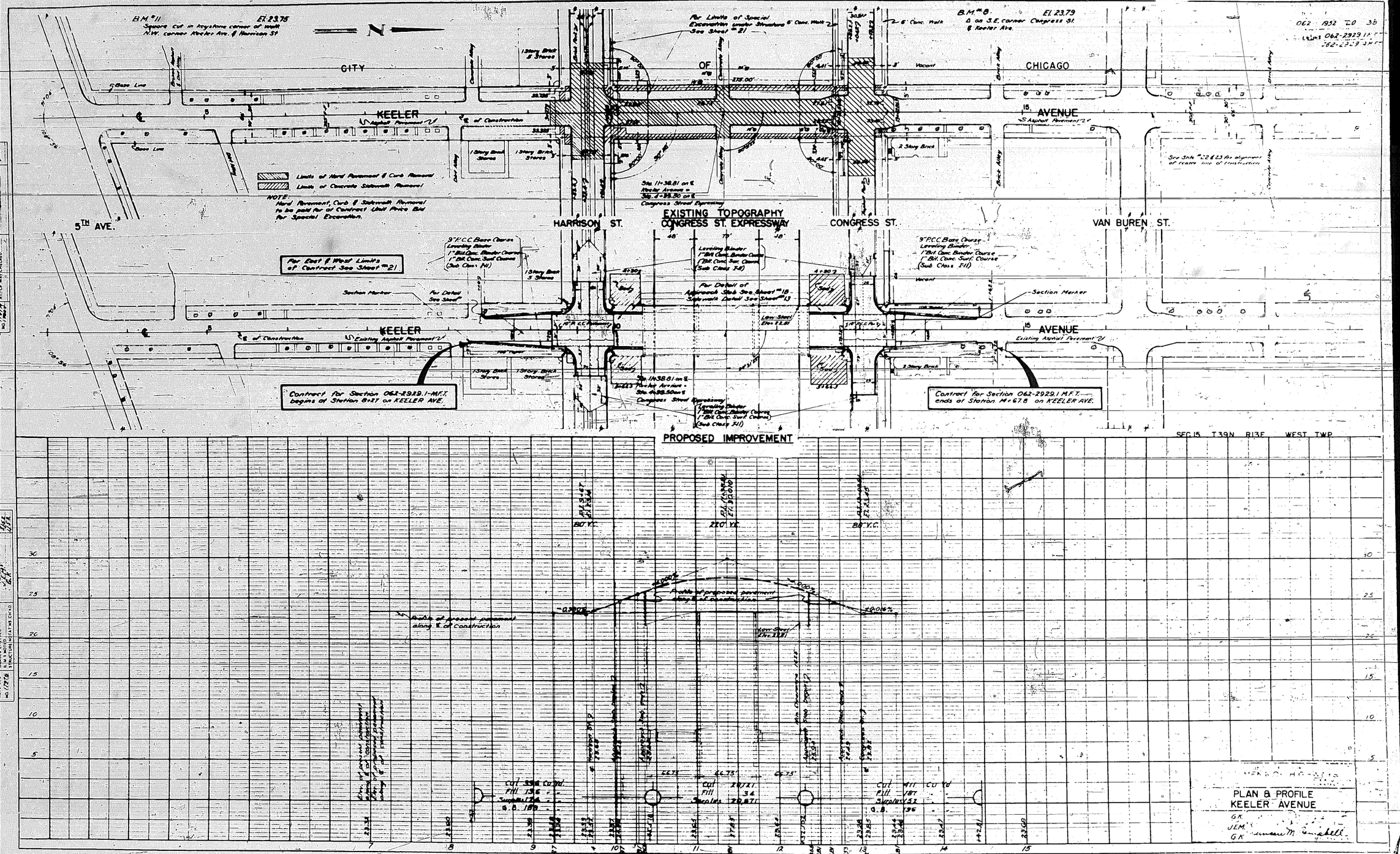
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM N. FRICKS, DIRECTOR OF HIGHWAYS — JOSEPH A. SCINLAN, ENGINEER OF BRIDGES

ABUTMENT BILL OF MATERIAL AND BAR SCHEDULE
KEELER AVENUE GRADE SEPARATION
OVER
CONGRESS STREET EXPRESSWAY

COMPUTED
DRAWN A. Milewicki
CHECKED
SUBMITTED July 9, 19
APPROVED W. M. Campbell

PROJECT U.I. 261 (61)
SCALE
APPROVED

131 | STATE AID ROUTE NO. 062-2929 IM.F.T 062-2929 IA.M.F.T | SHEET NO. 19 | TOTAL SHEETS 35


B.M. #11 El. 23.75
Square cut in keystone corner of wall N.W. corner Keeler Ave. & Harrison St
N
CITY
OF
CHICAGO
KEELER
AVENUE
5TH AVE.
HARRISON ST.
CONGRESS ST.
VAN BUREN ST.
B.M. #8 El. 23.79
Δ on S.E. corner Congress St. & Keeler Ave.
062 1952 20 36
Limits of Hard Pavement & Curb Removal
Limits of Concrete Sidewalk Removal
NOTE: Hard Pavement, Curb & Sidewalk Removal to be paid for at Contract Unit Price Bid for Special Excavation.
For Limits of Special Excavation under Structure See Sheet #21
For East & West Limits of Contract See Sheet #21
EXISTING TOPOGRAPHY
CONGRESS ST. EXPRESSWAY
Contract for Section 062-2929.1-M.F.T. begins at Station 8+27 on KEELER AVE.
Contract for Section 062-2929.1 M.F.T. ends at Station 14+67.8 on KEELER AVE.
PROPOSED IMPROVEMENT
SEC 15 T39N R13E WEST TWP
80' V.C.
220' V.C.
80' V.C.
Profile of proposed pavement along ℄ of construction
Cut 996 cu yd
Fill 136
Surplus 174
G.B. 180
Cut 2121
Fill 34
Surplus 2087
Cut 411 cu yd
Fill 187
Surplus 52
G.B. 136
PLAN & PROFILE
KEELER AVENUE
G.K.
JEM
G.K.
DESIGN DIVISION DRAWING NO. C.P. 250 R