

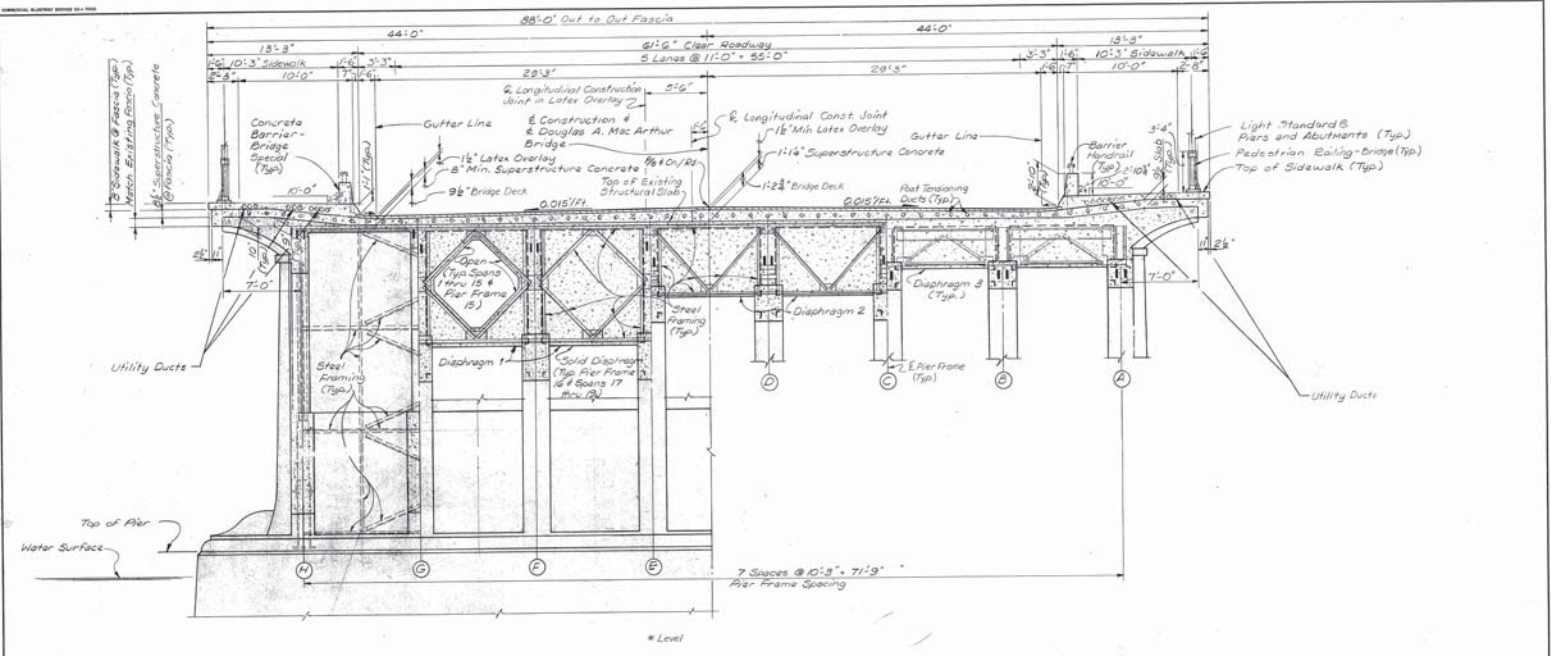
SECTION A-A

Note: 4" PVC Type D Conduit to be furnished by Michigan Bell Telephone Co. and installed by Contractor (Incidental)

MISCELLANEOUS QUANTITIES

Item	Unit	Stage 1	Stage 2	Total
Temporary Steel Sheet Piling	S.Ft.	263	178	441
Slope Protection - Repaired	L.Sun	L.Sun	L.Sun	Long.Sun
Piling Office - Modified	Month	10	10	20
Mobilization	L.Sun	L.Sun	L.Sun	Long.Sun
On the Job Training	Each	5	5	10
Surface Treatment	Sq. Ft.	5,649	5,649	10,298

- LEGEND
- DENOTES NEW CONCRETE SURFACES
 - DENOTES NEW CONCRETE SECTIONS
 - DENOTES EXISTING CONCRETE SURFACES
 - DENOTES EXISTING CONCRETE SECTIONS



SECTION B-B

Note: 4" P.V.C. Type D Conduit to be furnished by Michigan Bell Telephone Co. and installed by Contractor (Incidental)

NOTES:
 THE DESIGN AND ANALYSIS OF THIS STRUCTURE IS BASED ON THE MDOT SPECIFICATIONS FOR THE DESIGN OF HIGHWAY BRIDGES, 1958 EDITION, AND CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, HS20 LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH AND 1/375 OF CANTILEVER ARM.

THE TOP OF ROADWAY SLAB AND TOPS OF SIDEWALKS ARE PARALLEL TO THE VERTICAL CURVE AND TANGENTS.

- LEGEND
- DENOTES NEW CONCRETE SURFACES
 - DENOTES NEW CONCRETE SECTIONS
 - DENOTES EXISTING CONCRETE SURFACES
 - DENOTES EXISTING CONCRETE SECTIONS

Except where otherwise indicated on this Structure Sheet in the Proposal and Supplemental Specifications contained herein, all materials and workmanship shall be in accordance with the Michigan Department of Transportation Standard Specifications for Construction.

Work this sheet with sheets 6 thru 17 & 19 thru 22

DESIGN BY	JCD	3-80
CHECKED BY	SJP	3-28-80
DATE	JCD	3-23
APP'D BY		

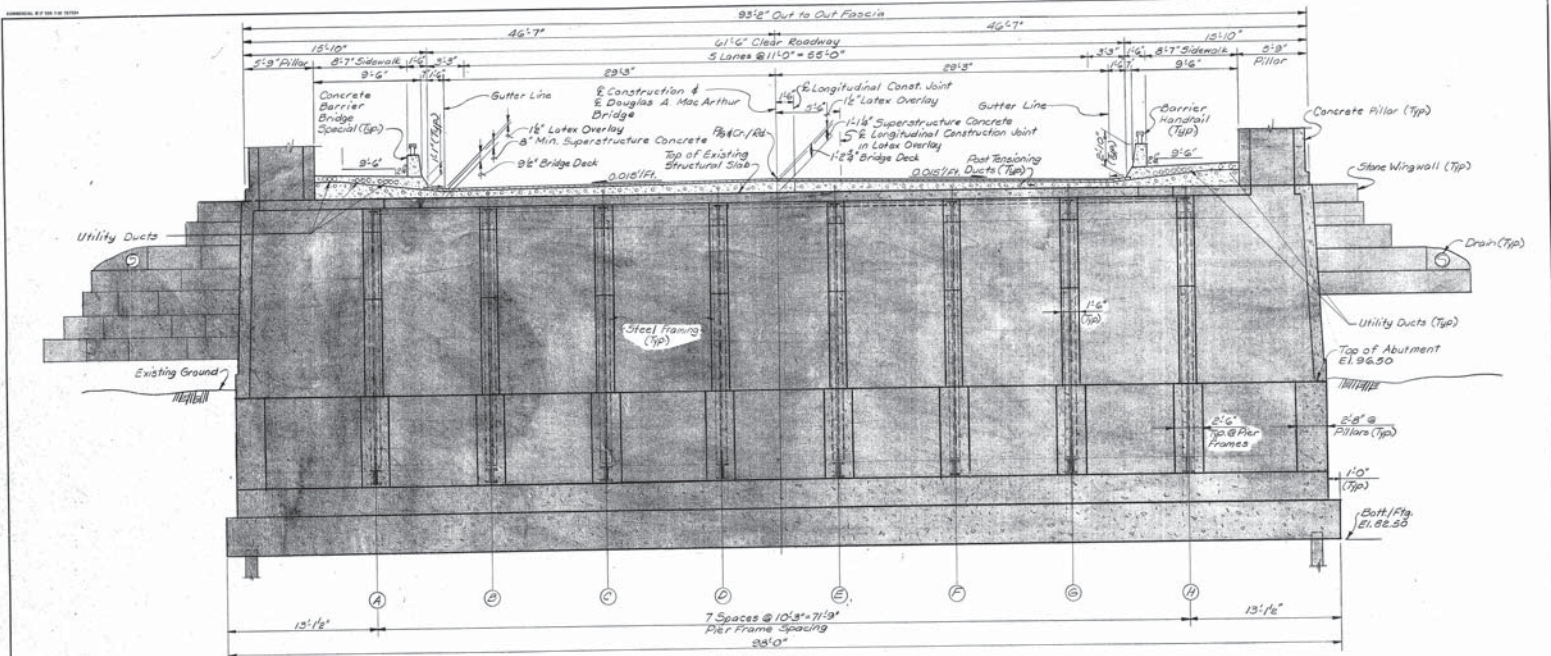
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

GENERAL PLAN OF STRUCTURE SECTION B-B

SCALE: NONE
 DWN. NO: 18 of 146



SECTION D-D
 Note: 4" R.V.C. Type D Conduit to be furnished by Michigan Bell Telephone Co. and installed by Contractor.

LEGEND

	DEMOTES NEW CONCRETE SURFACES
	DEMOTES NEW CONCRETE SECTIONS
	DEMOTES EXISTING CONCRETE SURFACES
	DEMOTES EXISTING CONCRETE SECTIONS

DESIGN BY: S.E.B.	10-80
CHECK BY: J.D.H.	8-85
DATE BY: J.E.O.	5-85
APPROVED BY:	

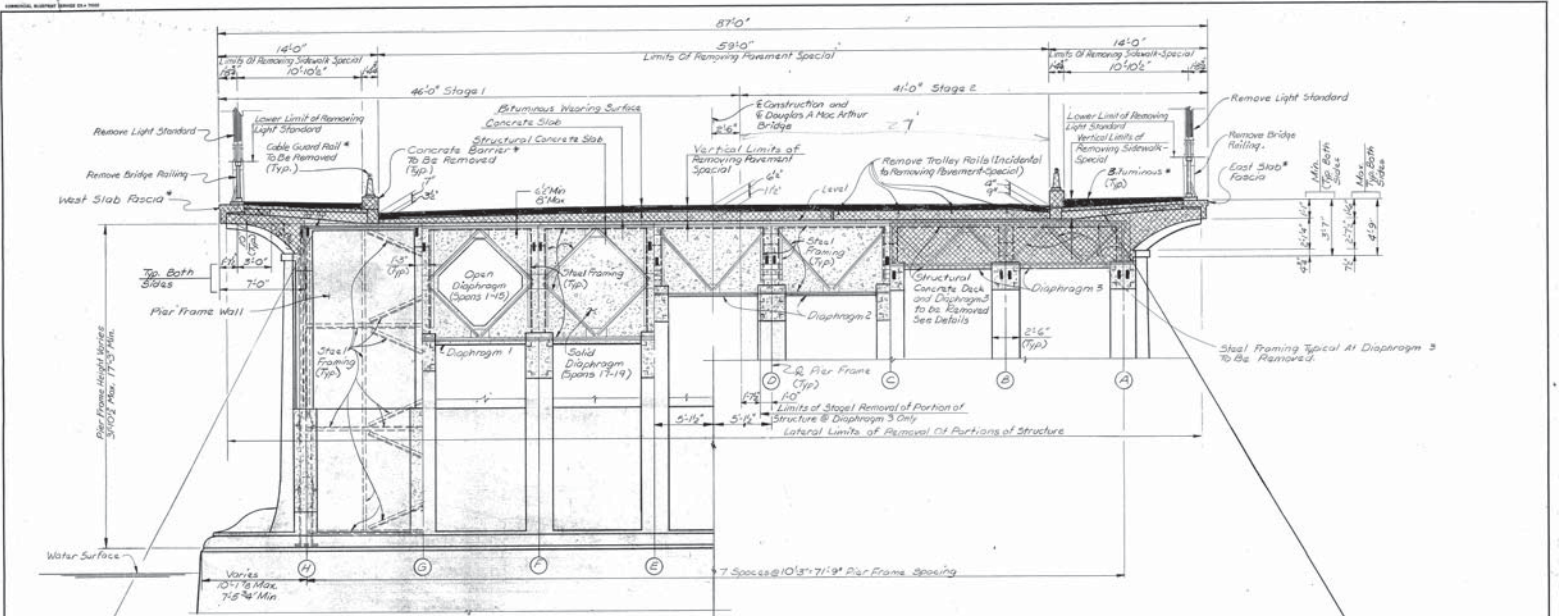
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

Work this sheet with sheets "G" thru "D" & "E" & "F"
 GENERAL PLAN OF STRUCTURE
 SECTION D-D

SCALE: NONE
 DRN. NO: 2007146



* Included in Removing Sidewalk Special

HAZARDOUS MATERIALS
 Existing Utilities: (To Be Retained)
 Two (2) City of Detroit Police Department Cables
 One (1) City of Detroit Fire Department Cable
 One (1) City of Detroit Lighting Department Cable
 One (1) Michigan Bell Telephone Company Temporary Telephone Cable

HAZARDOUS MATERIALS
 Existing Utilities: (To Be Retained)
 One (1) City of Detroit Police Department Cable
 One (1) City of Detroit Lighting Department Cable
 One (1) City of Detroit Police Department Cable

SECTION A-A

LEGEND
 [Symbol] DENOTES EXISTING CONCRETE SURFACES
 [Symbol] DENOTES EXISTING CONCRETE SECTIONS

NOTE 11
 Removal of Diaphragm 3 Between Pier Frame D1E for Staged Construction Shall Be to the Limits Shown or as Necessary for Placement of Structural Steel

Work this Sheet with Sheets # 23 thru 26 & 28 thru 38

DESIGN BY	SEB	10-20
CHECK BY	MBM	11-20
DATE	GCN	1-23

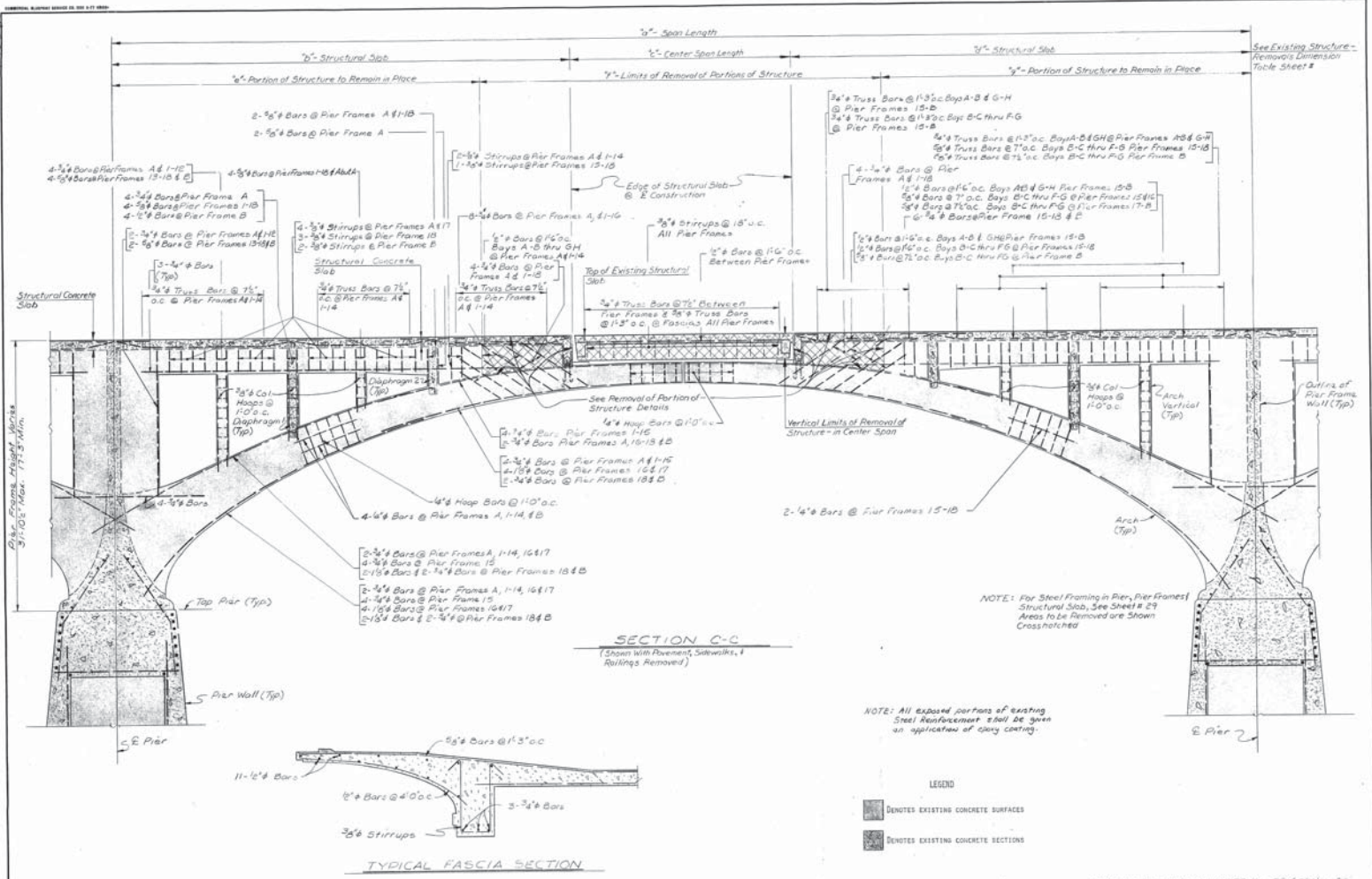
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

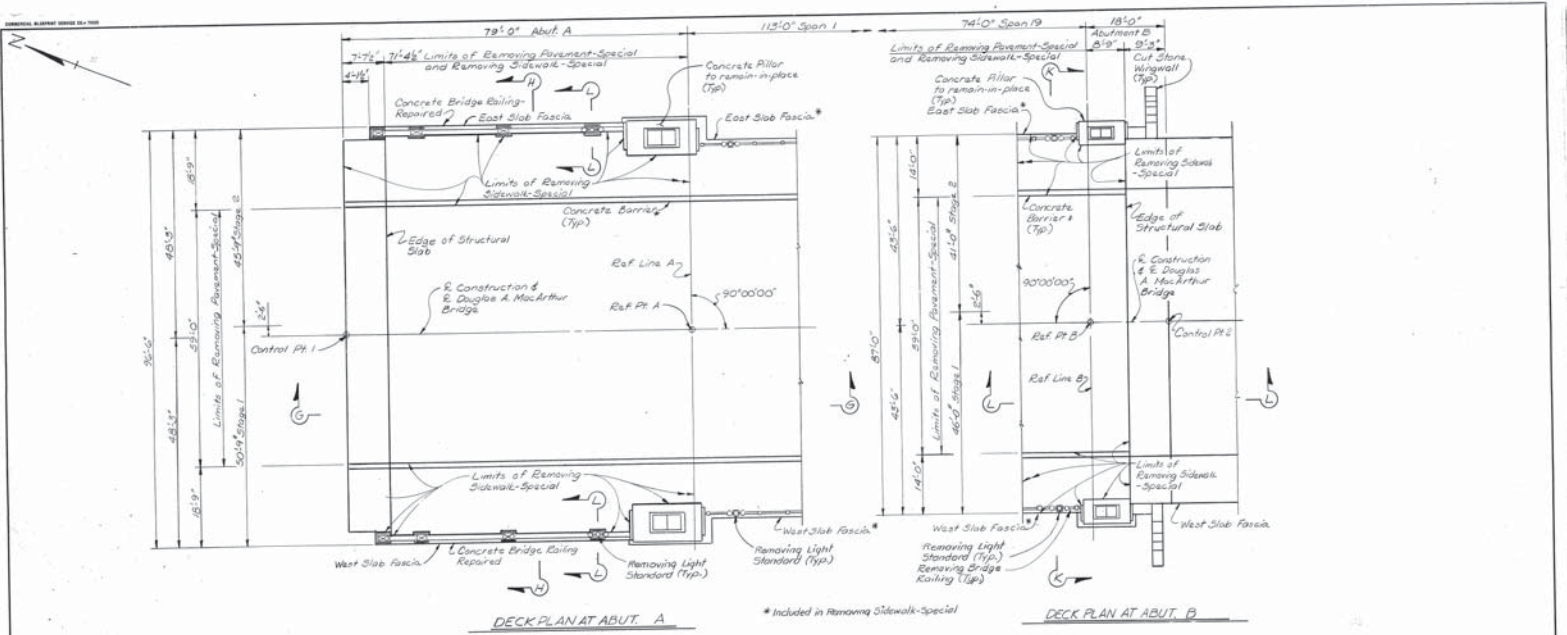
EXISTING STRUCTURE - REMOVALS
 SECTION A-A
 TYPICAL CROSS-SECTION THRU PIER FRAME

SCALE: NONE
 DRN. NO. 2 TO 146



SHEET NO. 10-80 DATE 11/21/10 REVISIONS 1. 11/21/10 2. 1/23/11	CITY OF DETROIT	Snell Environmental Group LANSING INDIANAPOLIS AKRON	RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.	EXISTING STRUCTURE - REMOVALS SECTION C-C TYPICAL SPAN LONGITUDINAL SECTION STEEL REINFORCEMENT DETAILS	SCALE: DRN. NO. 30 of 140
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Work this sheet with sheets 23 thru 29 & 31 thru 33



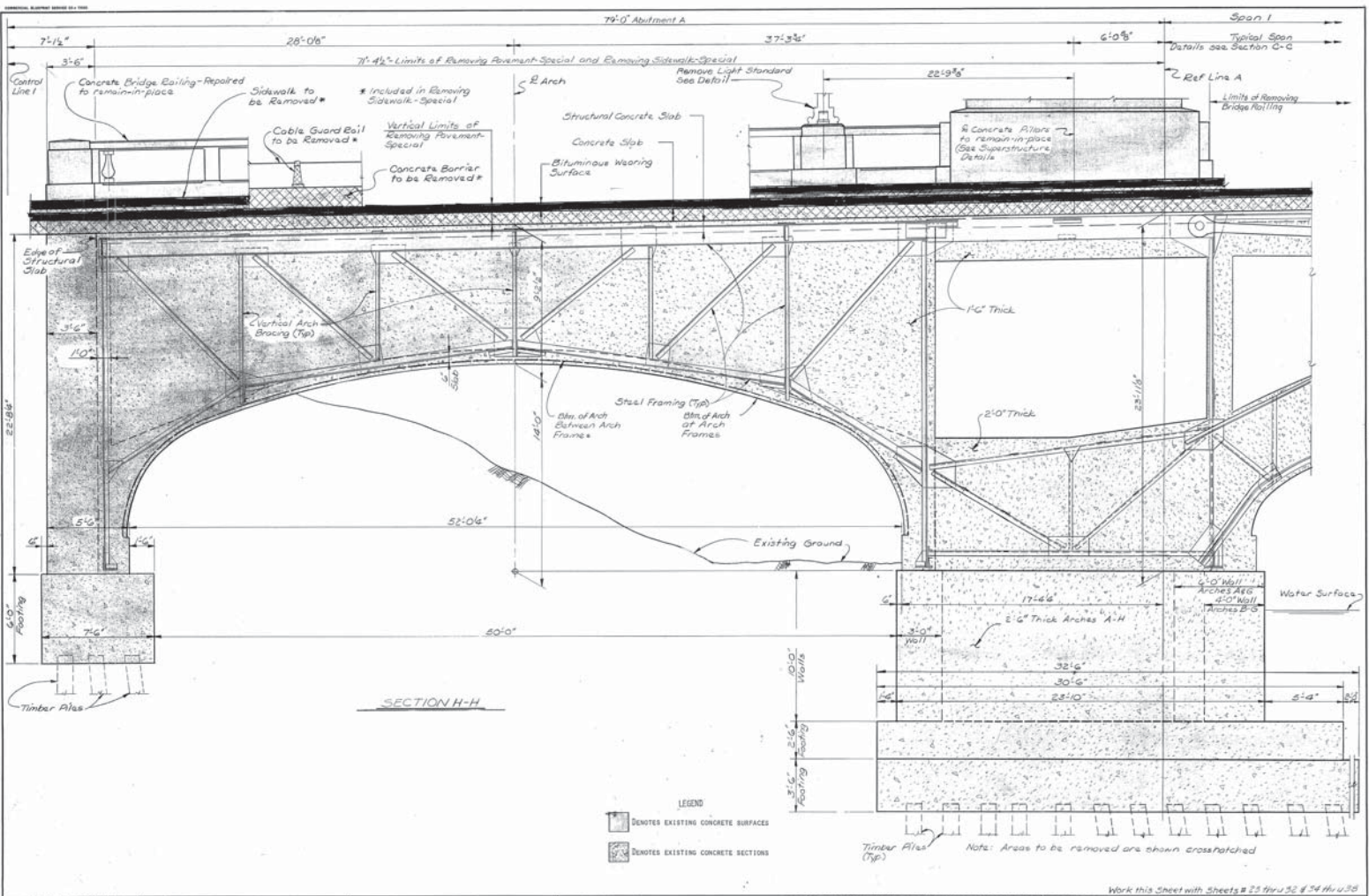
DATE BY	E.F.K.	1-88
DATE BY	M.D.W.	11-80
DATE BY	G.T.K.	7-83
DATE BY		

CITY OF DETROIT



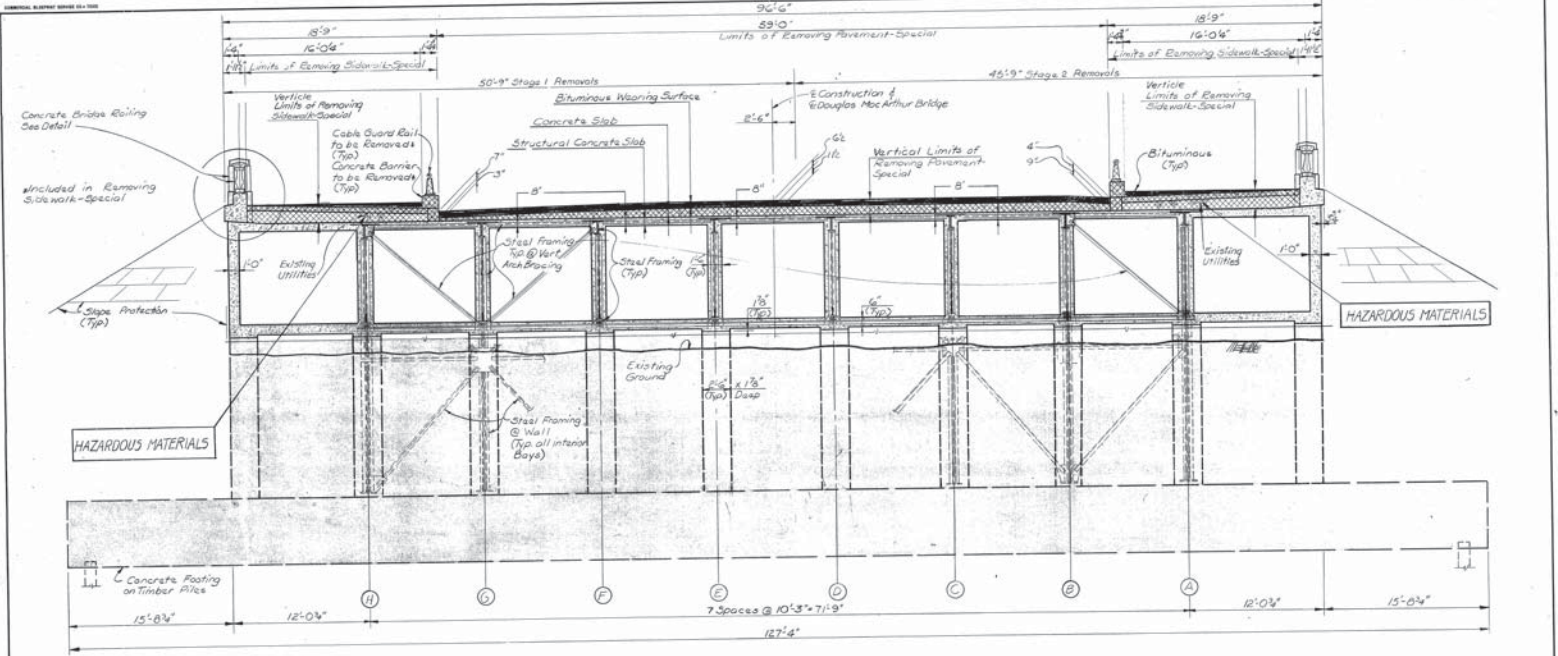
RENOVATION PLANS FOR THE DOUGLAS A. MACARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

Work this sheet with sheets # 23 thru 38
 EXISTING STRUCTURE - REMOVALS
 PLAN OF ABUTMENT 'A' AND ABUTMENT 'B'
 SCALE: NONE
 DRN. NO. 32 of 146

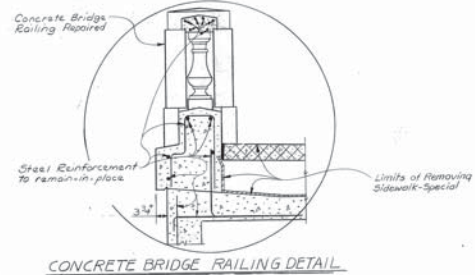


DESIGN BY: G.F.K. 1-83	REVISIONS:	CITY OF DETROIT	Snell Environmental Group LANSING INDIANAPOLIS ANN ARBOR	RENOVATION PLANS FOR THE DOUGLAS A MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.	EXISTING STRUCTURE-REMOVALS SECTION 6-5 ABUT. A LONGITUDINAL SECTION	SCALE: NONE DRN. NO: 33 of 196
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Work this Sheet with Sheets # 33 thru 36 & 34 thru 38



SECTION G-G



CONCRETE BRIDGE RAILING DETAIL

LEGEND
 [Symbol] DENOTES EXISTING CONCRETE SURFACES
 [Symbol] DENOTES EXISTING CONCRETE SECTIONS

Work this Sheet with Sheets # 23 thru 33 of 27 Nov 93

DATE	BY	CHKD	REVISION
07/11/93	G.F.K.	9-80	
07/11/93	M.D.H.	9-80	
07/11/93	G.F.K.	1-83	

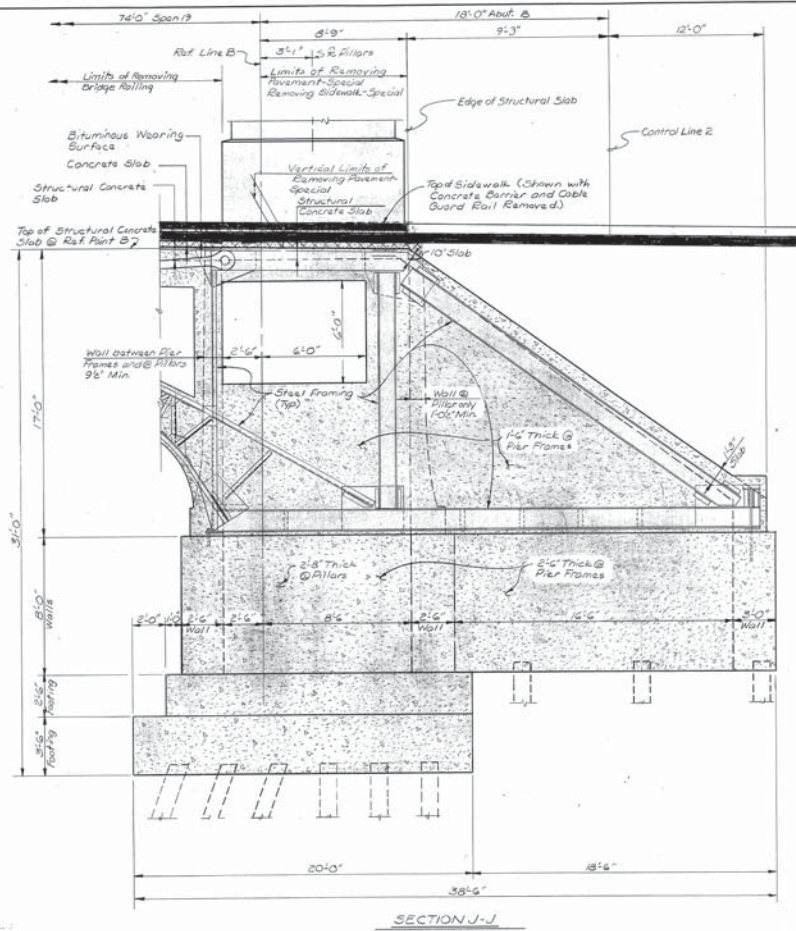
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

EXISTING STRUCTURE-REMOVALS SECTION H-H AT ABUTMENT A

SCALE: NONE
 DRN. NO: 34 of 146



SECTION J-J

LEEDD
 DENOTES EXISTING CONCRETE SURFACES
 DENOTES EXISTING CONCRETE SECTIONS

Work this Sheet with Sheets 23 thru 24 & 26 thru 28

DATE BY	G.F.R.	1-03	REVISIONS	
DATE BY	N.D.M.	7-03		
DATE BY	B.S.C.	7-93		
APP'D BY				

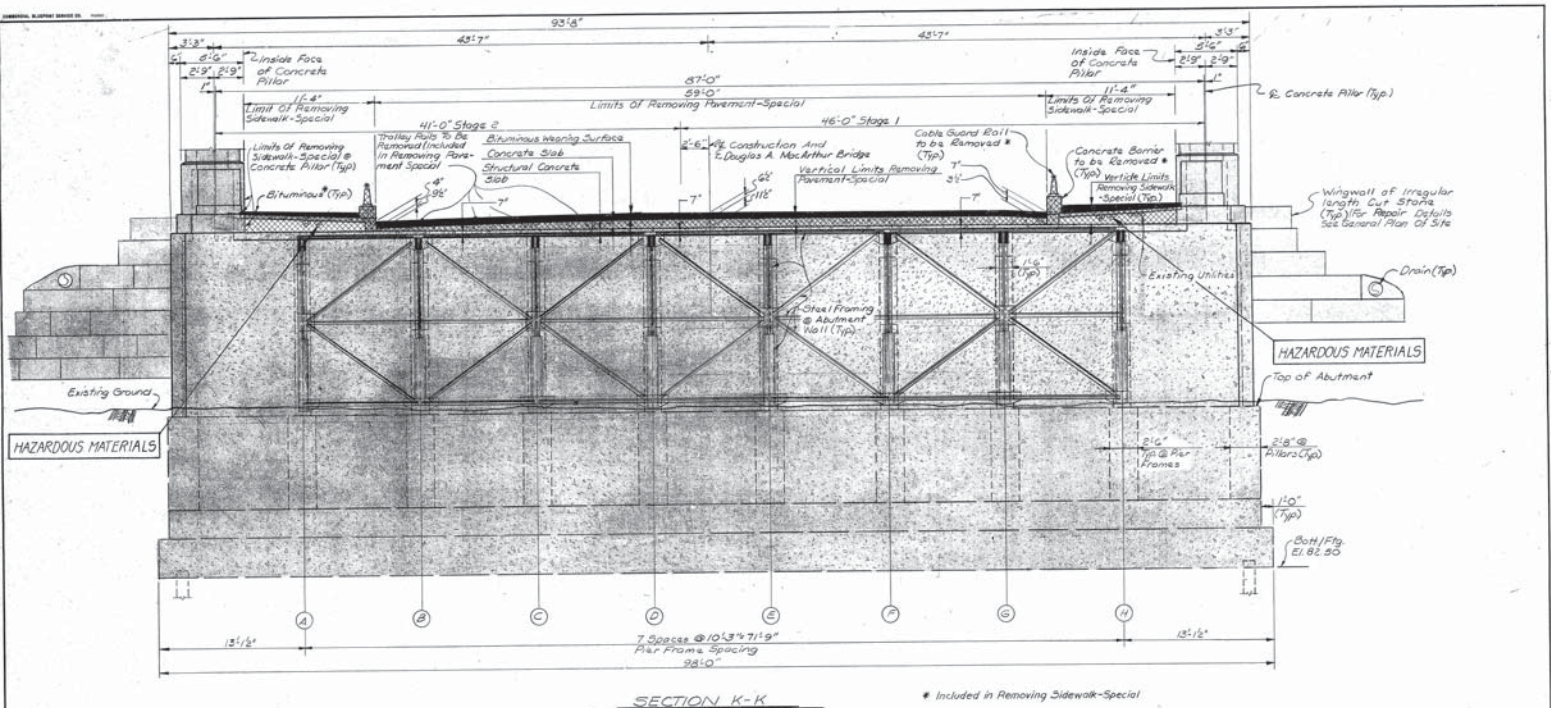
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

EXISTING STRUCTURE-REMOVALS SECTION J-J THRU SPAN B ABUT B LONGITUDINAL SECTION

SCALE: NONE
 DRN. NO: 35 of 146



SECTION K-K * Included in Removing Sidewalk-Special

LEGEND

	Denotes Existing Concrete Surfaces
	Denotes Existing Concrete Sections

Work this Sheet with Sheets # 28 thru 35 of 38

DESIGN BY	G.F.R.	1-83
CHECKED BY	T.G.D.	1-83
APPROVED BY	G.F.R.	3-83
REVISIONS		

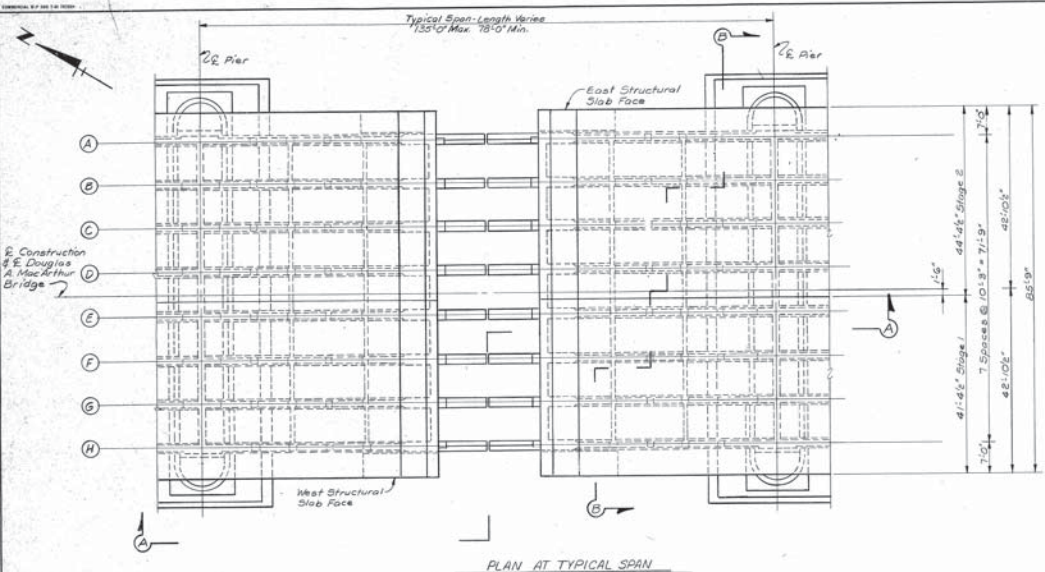
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

EXISTING STRUCTURE - REMOVALS
SECTION K - K
ABUT. B CROSS-SECTION

SCALE: NONE
DRN. NO: 36 of 146



E. Construction
 E. Douglas
 A. MacArthur
 Bridge

REPAIR LEGEND

- Placed Aggregate Concrete
- Arch - Detail Number
- Diaphragm - Square Feet
- ◇ Arch Vertical - Square Feet
- ⬡ Face of Pier Frame Wall - Square Feet
- ▭ Face of Pier Wall - Square Feet
- △ Nose of Pier - Square Feet

Note: See Arch Damage/Repair Dimension Table Detail Number Description

NOTE: Limits of Damage/Repair Shown in this Section are Derived from a Detailed Inspection Completed in the Summer of 1979. Exact Limits of Repair Shall be Determined at Time of Construction.

ARCH DAMAGE/REPAIR DIMENSION TABLE

Repair Detail Shape	Detail Number	Repair Depth
	1	4"
	2	4"
	3	4"
	4	4"
	5	5"
	6	4"
	7	5"

NOTE: If '0' is used for Detail Number No Repair is Expected in this Area, except as directed by the Engineer.

DESIGN BY: J.E.D.	0-82
CHECK BY: M.D.H.	0-82
DATE BY: G.F.R.	3-85

REVISIONS:	

CITY OF DETROIT

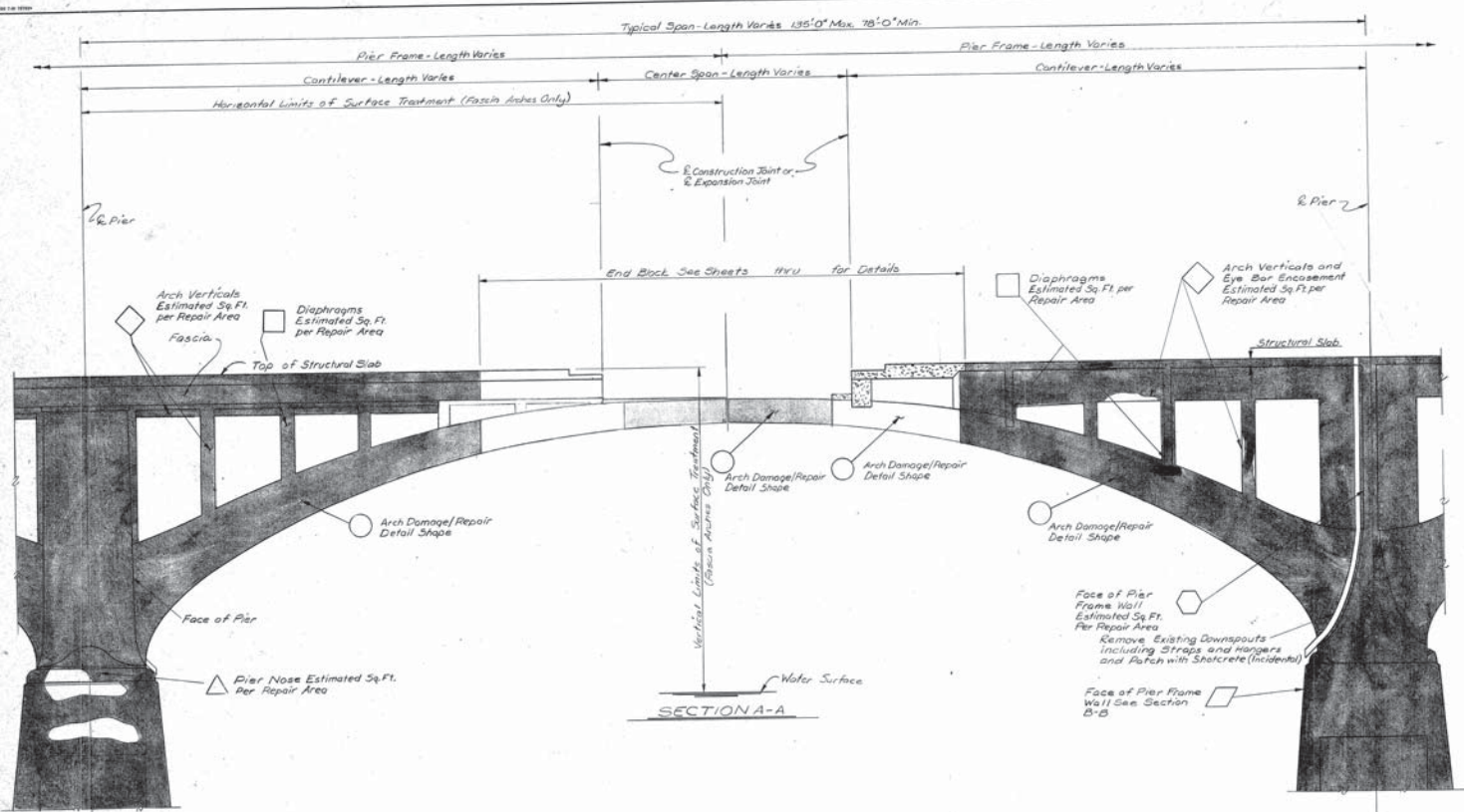


RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

Work this Sheet with Sheets # 40 thru 63
 PIER FRAME DETAILS - REPAIR
 PLAN AT TYPICAL SPAN,
 REPAIR LEGEND, NOTES

SCALE: NONE
 DRN. NO: 39 of 146

REVISION: 07/20/10



SECTION A-A

Work this sheet with sheets 33 & 41 thru 63

DATE	BY	CHKD
07/20/10	G.F.K.	M.H.H.
07/20/10	G.F.K.	G.F.K.

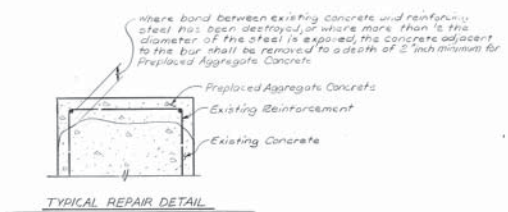
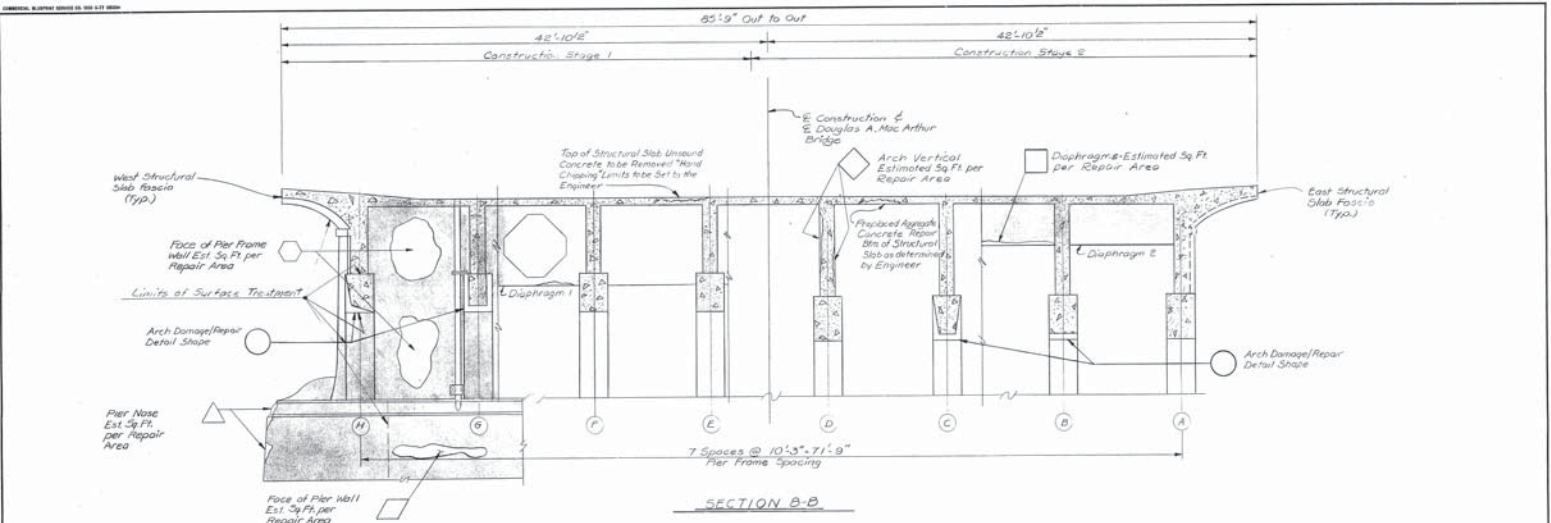
NO.	DESCRIPTION

CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS & MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIRS SECTION A - A	SCALE: NONE
	DRN. NO: 40 of 146



- LEGEND
- DENOTES NEW CONCRETE SURFACES
 - DENOTES NEW CONCRETE SECTIONS
 - DENOTES EXISTING CONCRETE SURFACES
 - DENOTES EXISTING CONCRETE SECTIONS

Work this sheet with sheets 33, 40 & 42 of 42, 63

DESIGN BY	J.E.D.	1-81
CHECK BY	J.B.	1-81
DATE BY	G.F.K.	3-83
APPROVED BY		

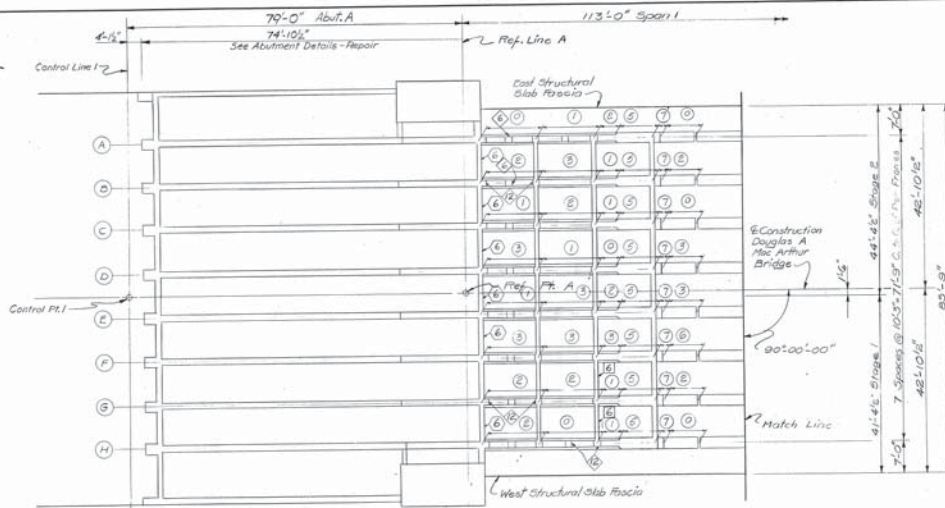
CITY OF DETROIT



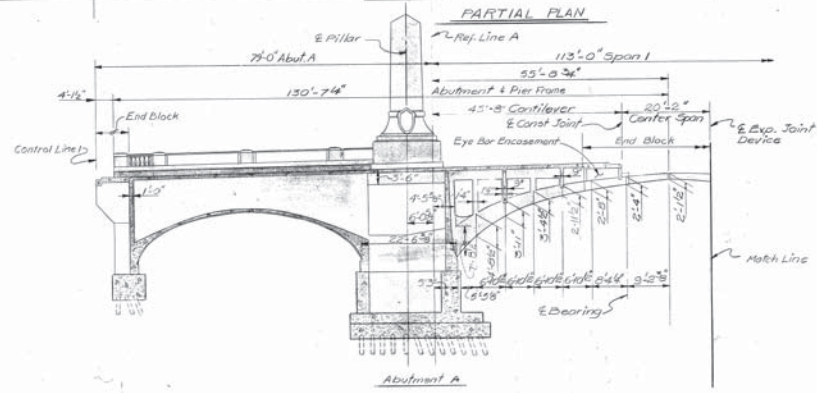
RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIRS
SECTION B - B

SCALE: NONE
DRN. NO: 41 of 146



PARTIAL PLAN



PARTIAL SECTION

Work this Sheet with Sheets 311, 312, 313 & 314

DESIGN BY	J.E.D.	1/81
CHK'D BY	J.D.	7/81
APP'D BY	G.P.K.	3/83
REVISIONS		

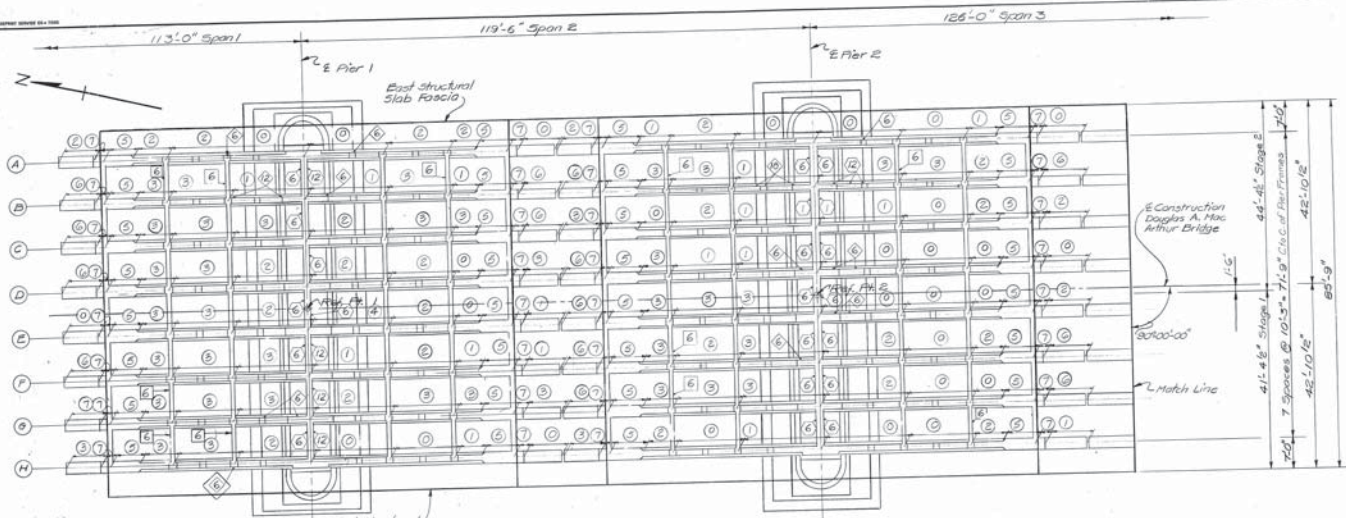
CITY OF DETROIT



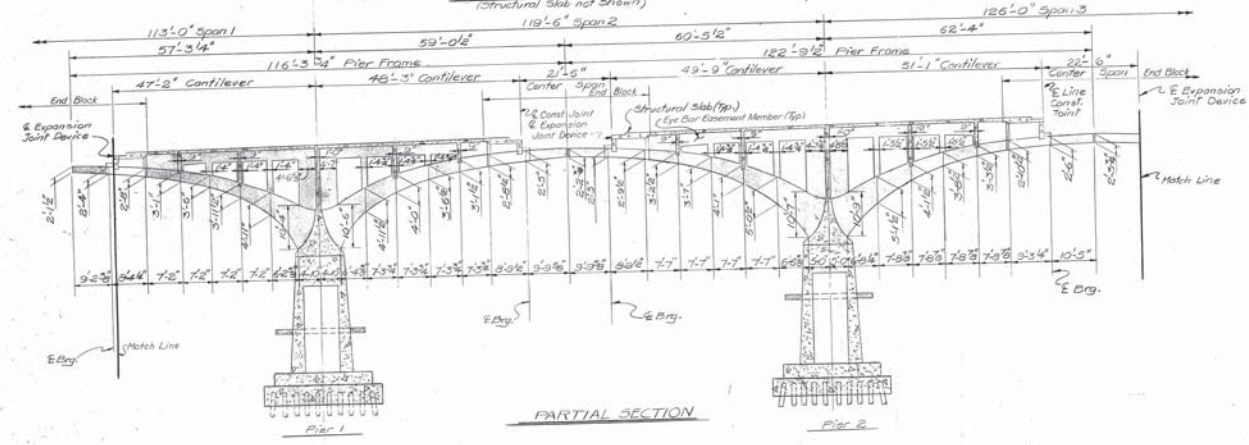
RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIRS
PARTIAL PLAN AND SECTION
SPAN 1

SCALE: NONE
DRN. NO: 42 of 140



PARTIAL PLAN
(Structural Slab not shown)



PARTIAL SECTION

DESIGN BY	J.E.D.	1/01
DRAWN BY	J.A.	1/01
CHECK BY	S.F.K.	3/05
APPROVED BY		

CITY OF DETROIT

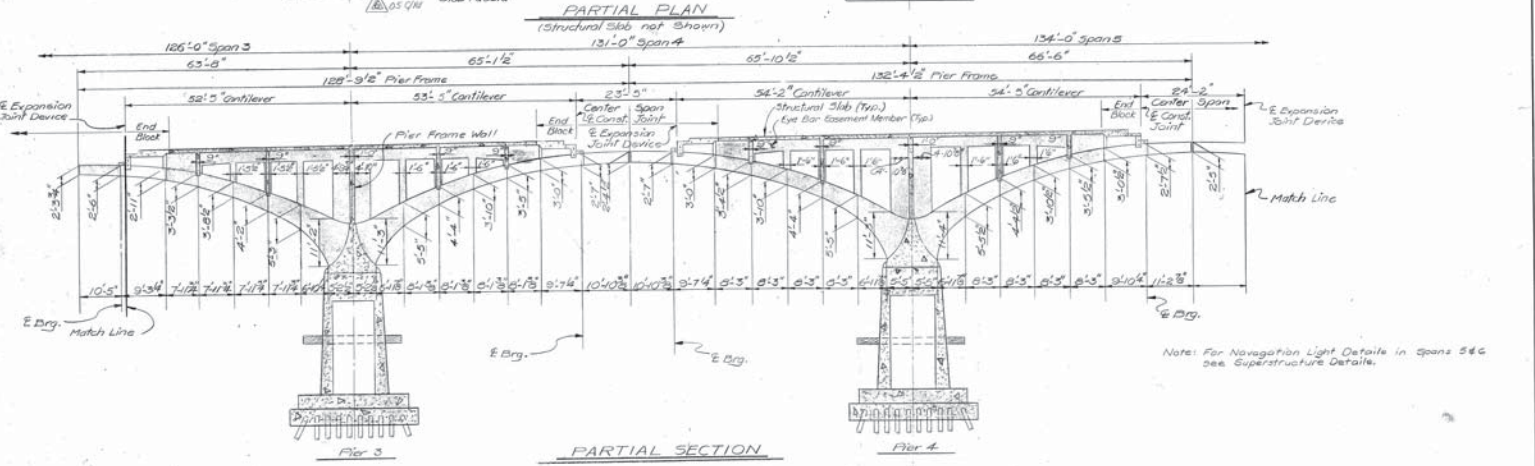
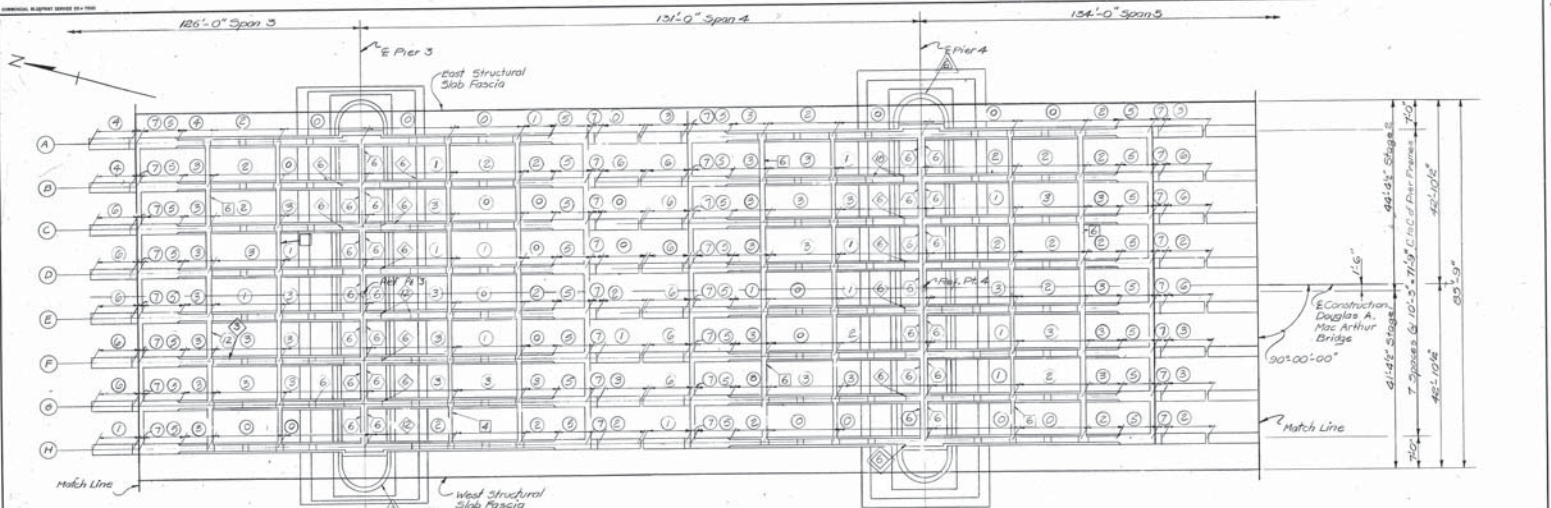


RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIRS
PARTIAL PLAN AND SECTION
SPAN 1-3

SCALE: NONE
DIR. NO: 43 of 146

Work this sheet with sheets 39 thru 42 & 44 thru 43



Note: For Navigation Light Details in Spans 3 & 4 see Superstructure Details.

Work this sheet with sheets #39 thru 43 & 45 thru 49

DESIGN BY:	J.E.D.	1-81
CHECK BY:	J.B.	1-81
DATE:	G.F.R.	3-83
REVISED:		

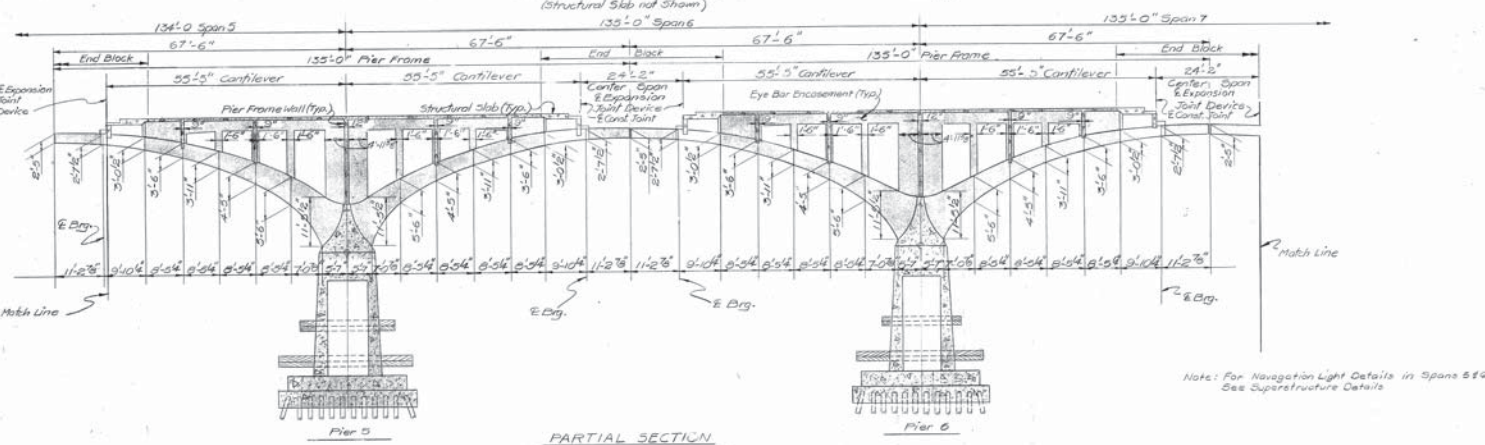
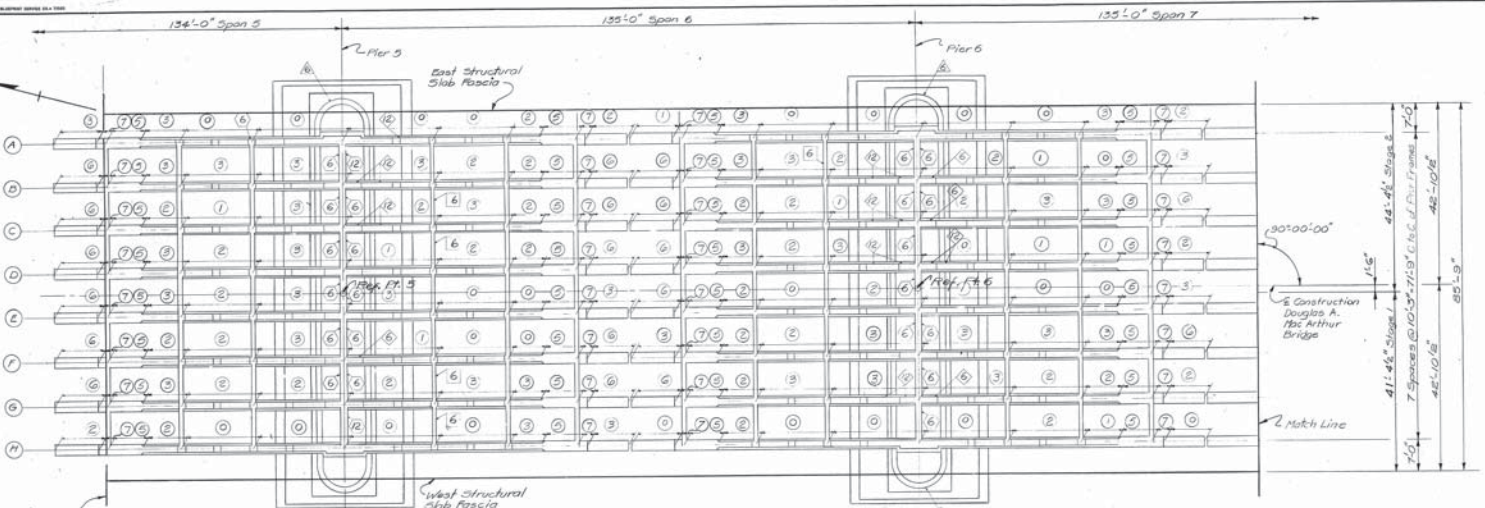
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS-REPAIR
PARTIAL PLAN AND SECTION
SPAN 3-5

SCALE: NONE
DRN. NO: 44 of 146



DESIGN BY:	J.E.D.	1-01
CHECK BY:	J.B.	1-07
DATE BY:	G.F.R.	3-03
APPROVED BY:		

REVISION			

CITY OF DETROIT

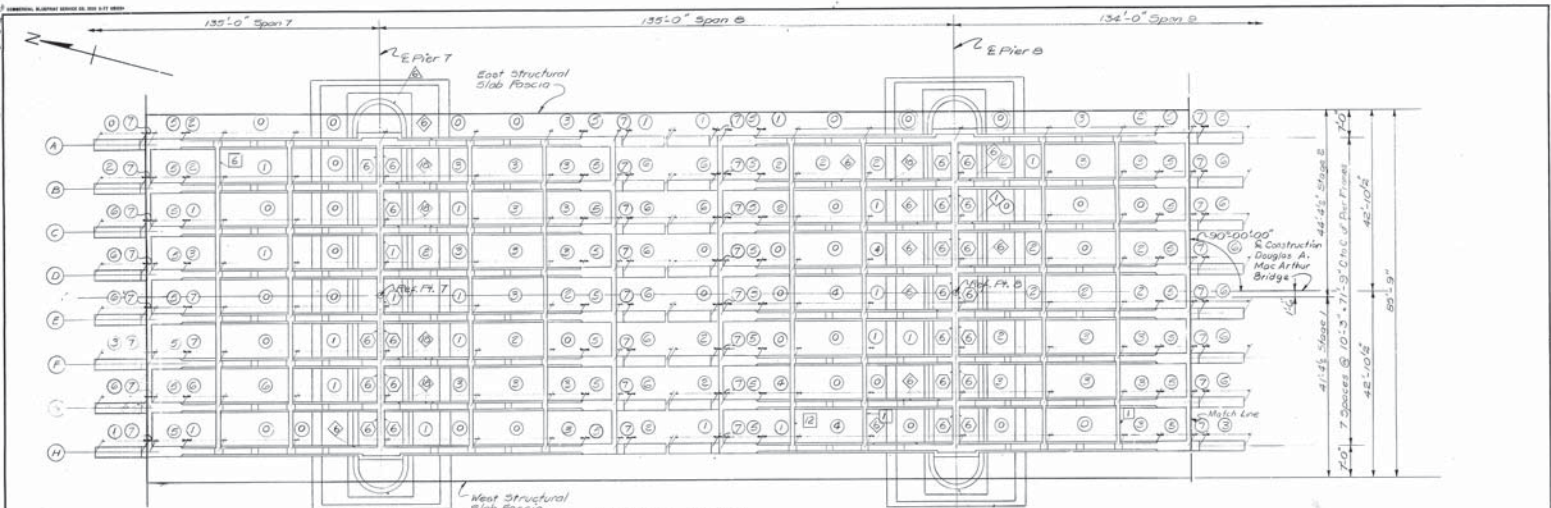


RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

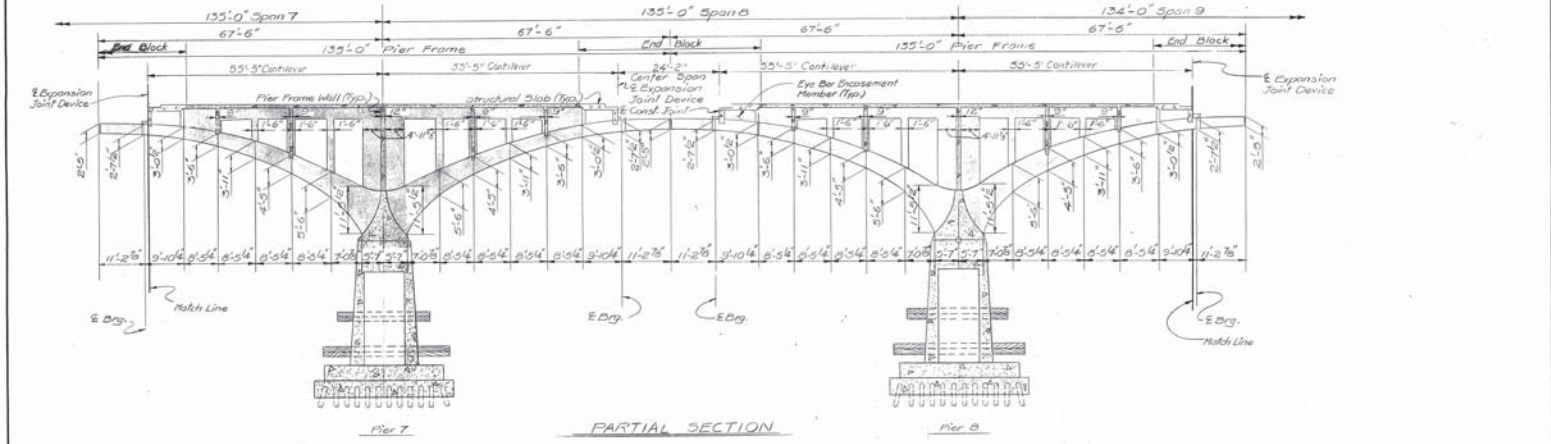
PIER FRAME DETAILS - REPAIR
PARTIAL PLAN AND SECTION
SPANS 5-7

SCALE: NONE
DRN. NO: 43 of 146

Work this sheet with sheets 39 thru 48 & 46 thru 63



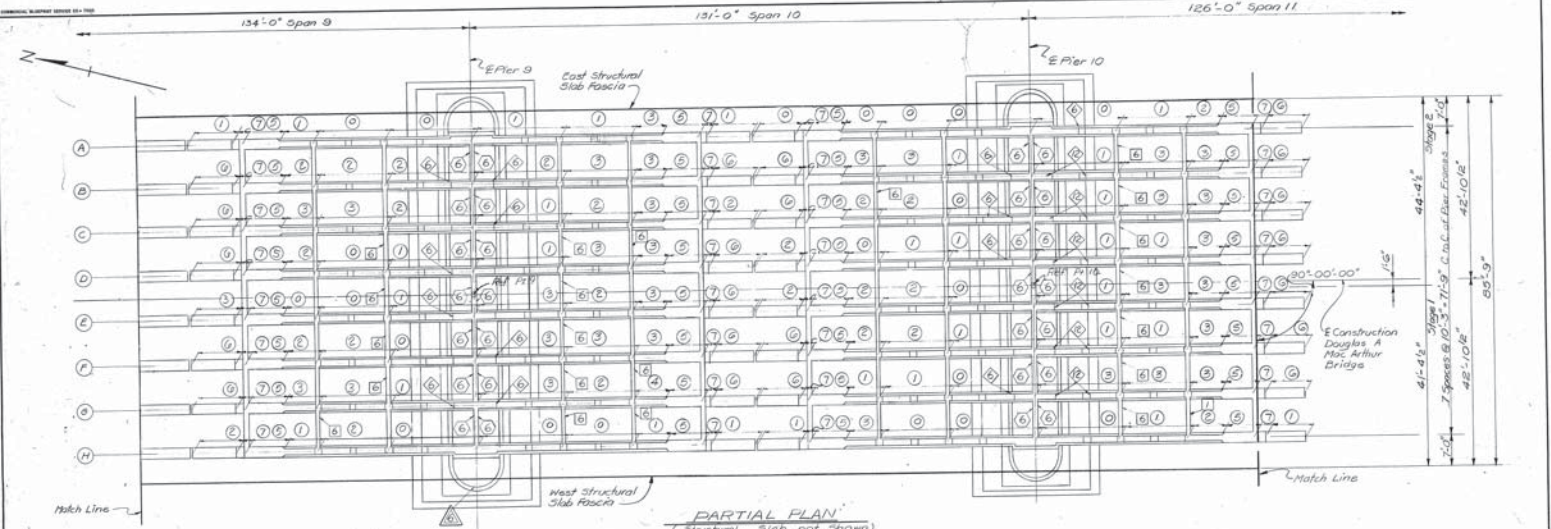
PARTIAL PLAN
(Structural Slab not shown)



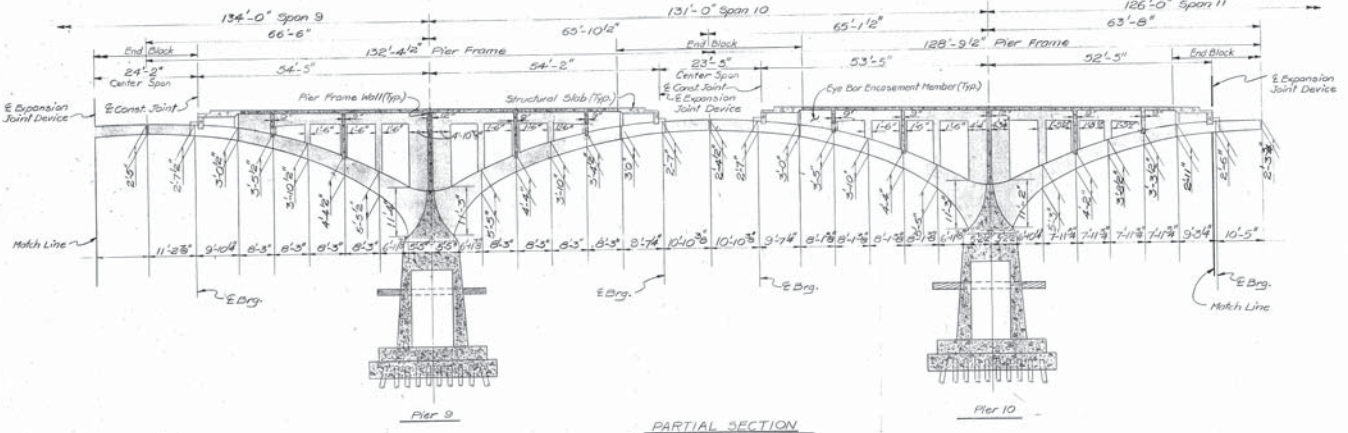
PARTIAL SECTION

Work this sheet with sheets # 30 thru 40 & 47 thru 63

DRAWN BY: J.E.D. 1-81 CHECKED BY: M.P.R. 3-83 APPROVED BY:	CITY OF DETROIT	Snell Environmental Group LANSING INDIANAPOLIS AKRON	RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.	PIER FRAME DETAILS - REPAIR PARTIAL PLAN AND SECTION SHEET 7-9	SCALE: NONE DRN. NO. 46 of 146
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PARTIAL PLAN
(Structural Slab, not shown)



PARTIAL SECTION

Work this Sheet with Sheets # 39 thru 46 & 48 thru 63

DESIGN BY	J.E.D. 1-01
CHECKED BY	J.B. 1-01
APPROVED BY	G.F.K. 3-03

REVISIONS	

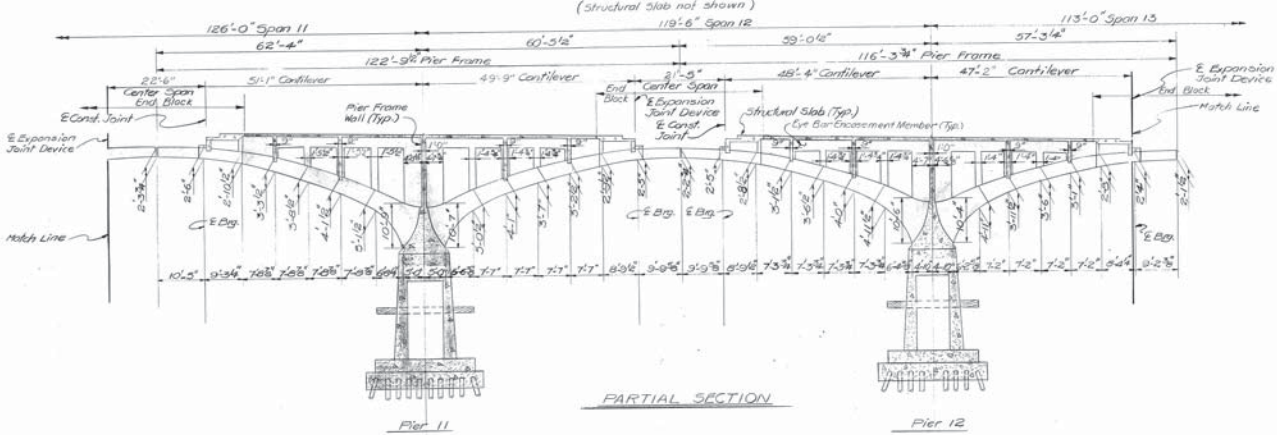
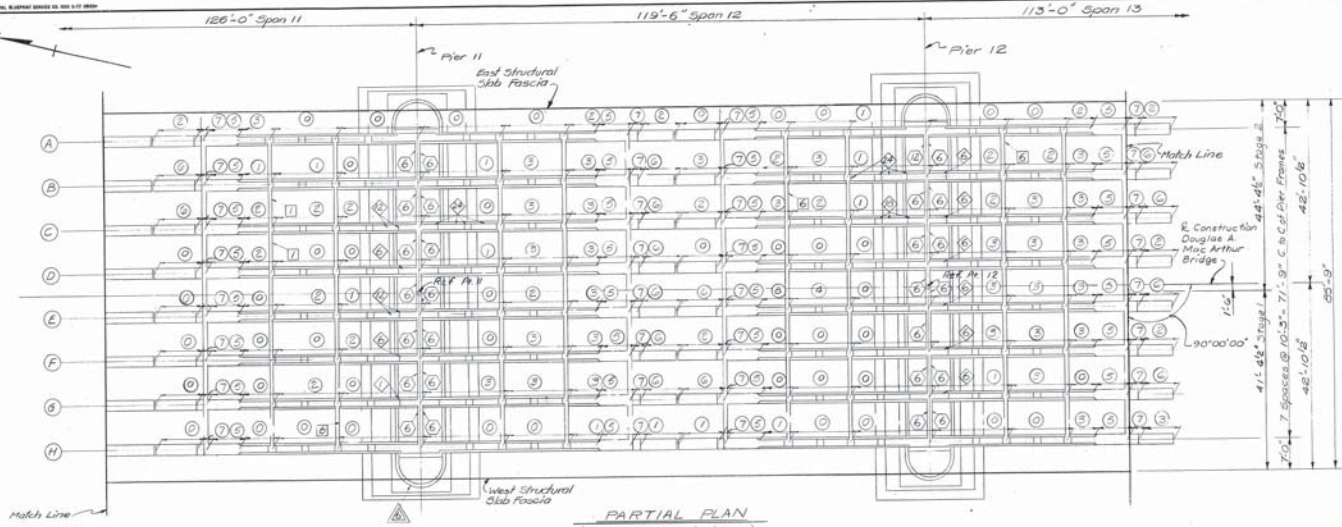
CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIR
PARTIAL PLAN AND SECTION
SPANS 9-11

SCALE: NONE
DRN. NO. 47 of 146



Work this sheet with sheets # 39 thru 47 & 49 thru 60

DESIGN BY:	J.E.D.	1-01
CHK'D BY:	J.B.	1-01
APP'D BY:	G.F.R.	3-02
REVISIONS:		

CITY OF DETROIT,

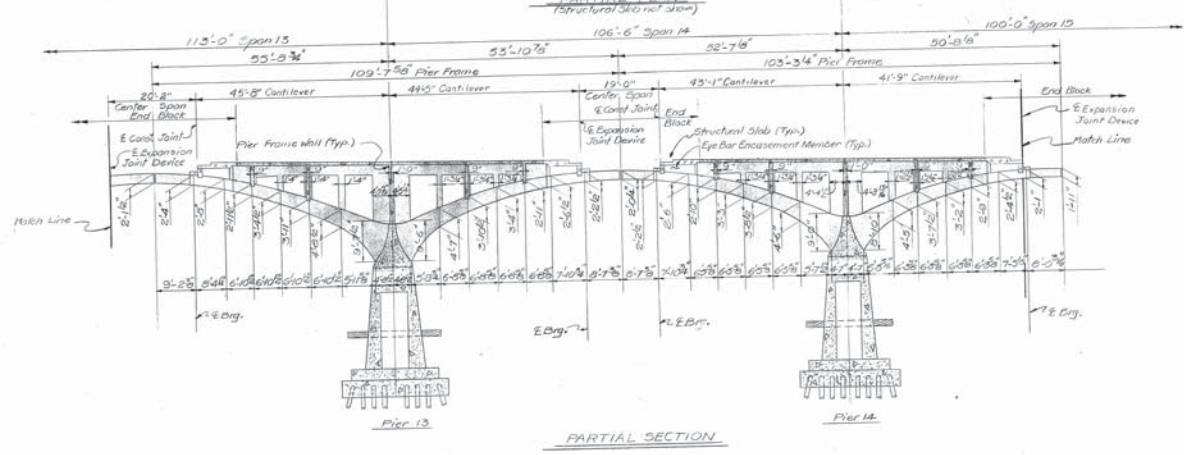
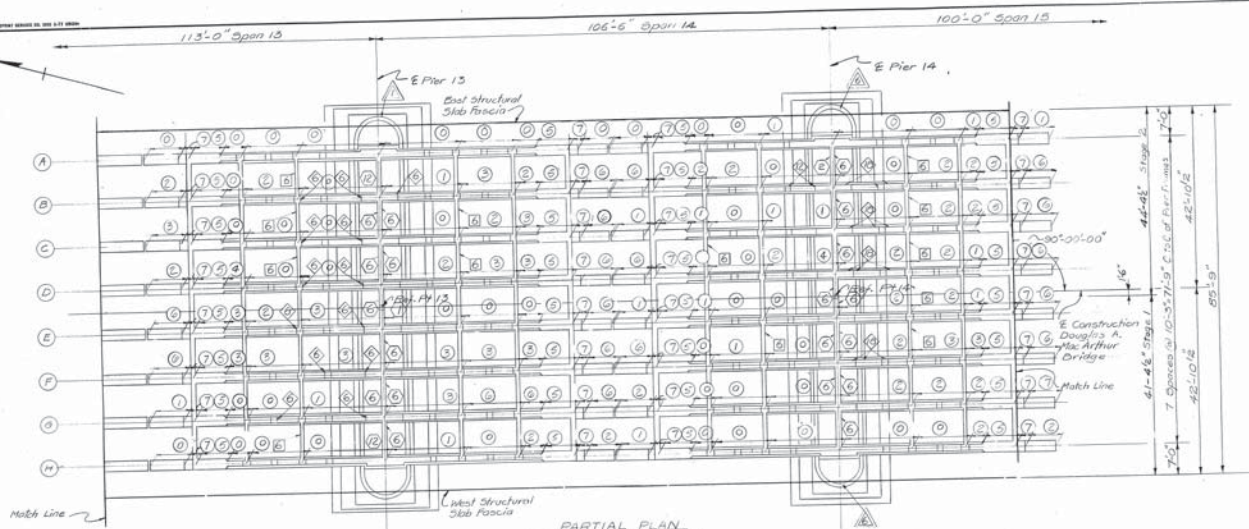


RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIR
PARTIAL PLAN AND SECTION
SPANS 11-13

SCALE: NONE
DRN. NO: 48 of 146

REVISIONS: 1. 11/15/11
2. 11/15/11
3. 11/15/11



Check this sheet with sheets # 20 thru 41 thru 63

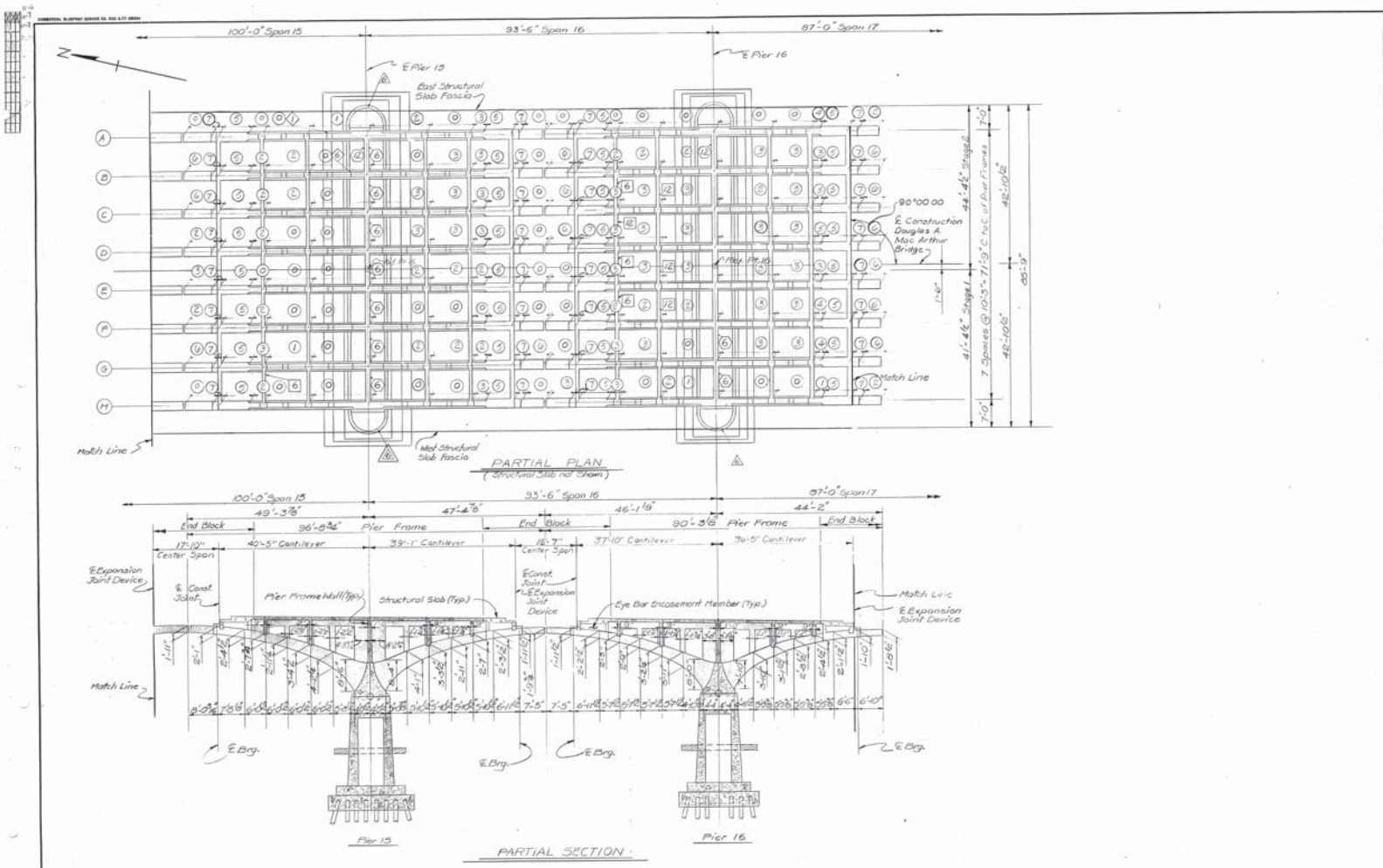
DESIGN BY	JED	1-01
CHECK BY	J.B.	1-01
DATE BY	G.P.K.	3-03
DATE BY		

CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAIL - REPAIRS	SCALE: NONE
PARTIAL PLAN AND SECTION	
SPANS 13-15	DRN. NO: 49 of 146



Work this sheet with sheets #39 May 99 51 thru 63

DESIGN BY	JED	1-01
CHKD BY	JFR	1-01
APP'D BY	GFK	3-03

CITY OF DETROIT

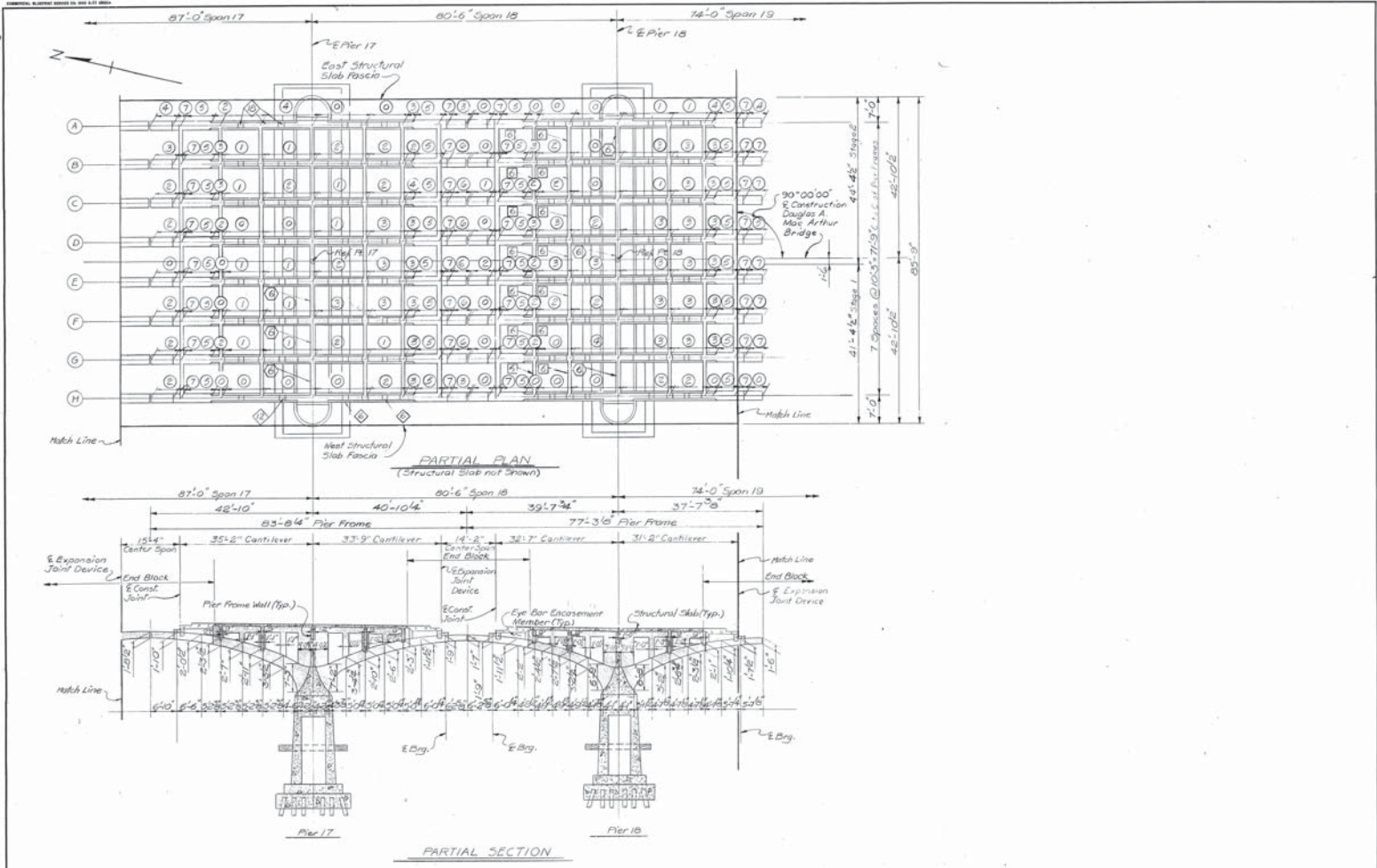


RENOVATION PLANS FOR THE DOUGLAS & MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIRS
PARTIAL PLAN AND SECTION
SPAN 15-17

SCALE: NONE
DRN. NO: 50 of 146

39-17



DESIGN BY:	J.E.D.	1-81
CHECK BY:	J.B.	2-81
DATE BY:	G.P.K.	3-83
APPROVED BY:		

REVISIONS:	

CITY OF DETROIT



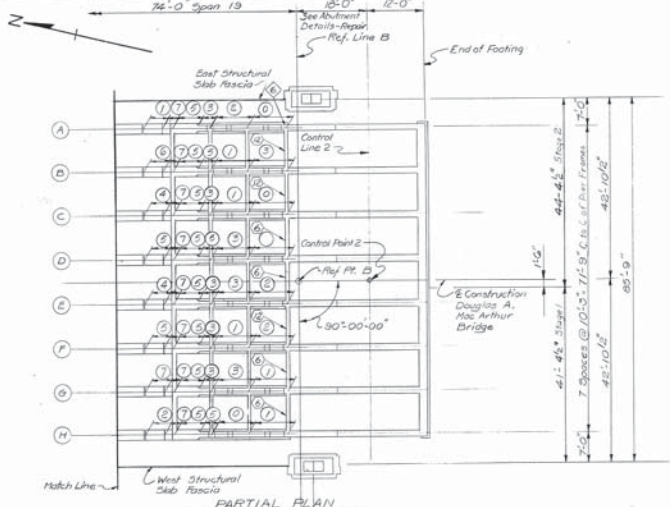
RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIR
PARTIAL PLAN AND SECTION
SPANS 17-19

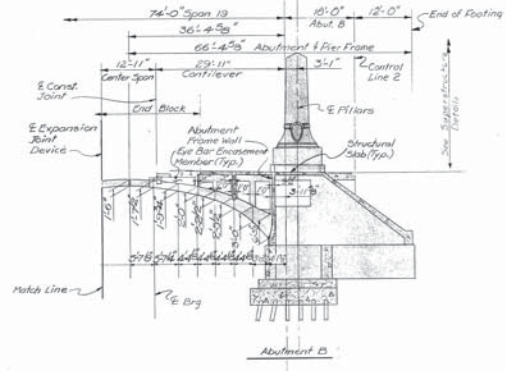
SCALE: NONE
DRN. NO: 51 of 146

Work this sheet with sheets # 09 thru 30 of set HUS 03

Scale 1/4" = 1'-0"



PARTIAL PLAN
(Structural Slab not shown)



PARTIAL SECTION

Work this sheet with sheets # 50 thru 51 & 52 thru 53

DESIGN BY: J.E.D. 1-01	Revised Proposed Abut. Spacing Designation: 74'-0"
CHK'D BY: J.E. 2-01	
APP'D BY: G.P.K. 3-03	
REVISIONS:	

CITY OF DETROIT

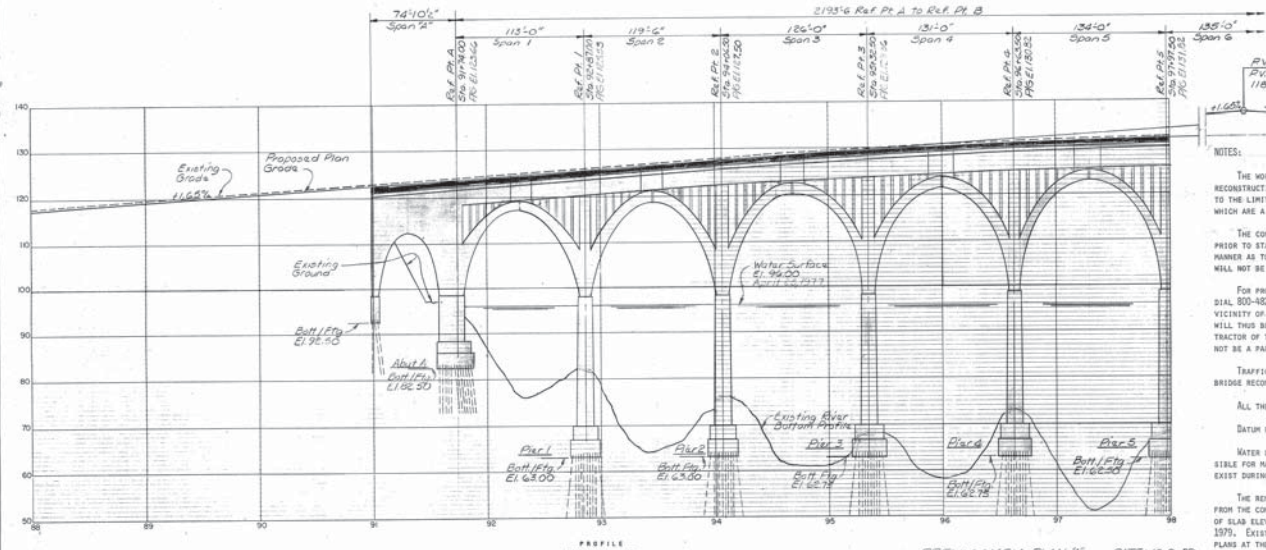
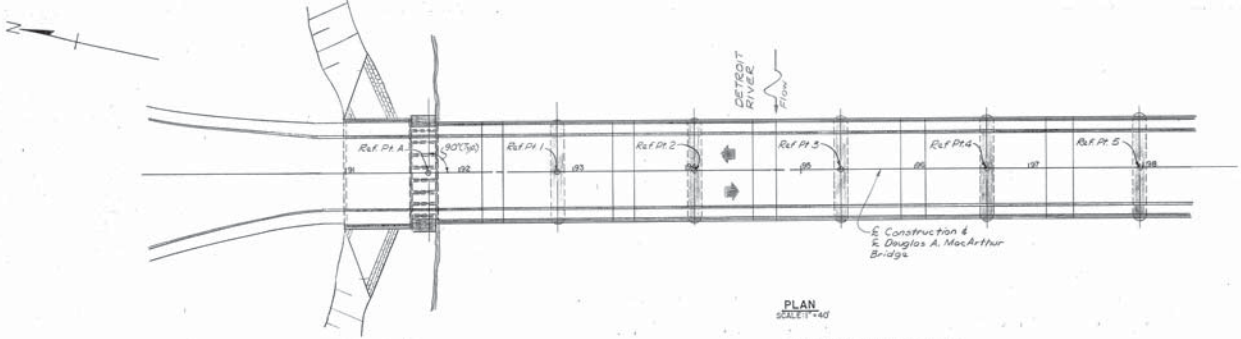


RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PIER FRAME DETAILS - REPAIR
PARTIAL PLAN AND SECTION
SPAN 19

SCALE: NONE
DRN. NO: 52 of 146

BENCH MARKS				
B.M. #1-253 ELEV 99.42 STANDARD TABLE 4' SOUTH OF SOUTH CURB ON RIVERBANK RD. 8' 4" WEST OF WEST CURB ON PICNIC WY. ON BELLE ISLE.	B.M. #365 STANDARD TABLE IN EAST CURB, 2' NORTH OF C.B. 1030' NORTH OF SOUTHEAST Pylon. BENCH MARK ELEVATION IS INACCURATE. DESCRIPTION IS TO BE USED FOR BENCHMARK RELOCATION ONLY.	C.B.M. #15 ELEV 117.43 BASE OF 350 LIGHT POLE ON APPROACH TO BELLE ISLE FROM JEFFERSON AVENUE.	C.B.M. #16 ELEV 123.90 TOP OF ANCHOR BOLT ON EAST CURB AT BRIDGE.	C.B.M. #17 ELEV 131.48 SOUTHWEST CORNER OF PLATFORM AT BUS STOP.



NOTES:

THE WORK COVERED BY THESE PLANS INCLUDES MAINTAINING TRAFFIC, RECONSTRUCTION OF THE EXISTING BRIDGE AND PLACING SLOPE PROTECTION TO THE LIMITS SHOWN. ALL OTHER WORK IS INCLUDED IN THE ROAD PLANS WHICH ARE A PART OF THIS CONTRACT.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL STAY 800-482-7373 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

TRAFFIC IS TO BE MAINTAINED OVER THE EXISTING BRIDGE DURING BRIDGE RECONSTRUCTION. SEE CONSTRUCTOR STAGING.

ALL THE AREA SHOWN IS OWNED BY THE CITY OF DETROIT.

DATUM REFERS TO CITY OF DETROIT DATUM.

WATER LEVEL IS SUBJECT TO CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF WATER LEVELS THAT WILL EXIST DURING CONSTRUCTION.

THE RENOVATION PLANS ARE PRIMARILY BASED ON DIMENSIONS OBTAINED FROM THE CONSTRUCTION PLANS FOR THE EXISTING BRIDGE. EXISTING TOP OF SLAB ELEVATIONS SHOWN ARE AS MEASURED DURING A FIELD SURVEY IN 1979. EXISTING CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION PLANS AT THE ABUTMENTS AND CONSTRUCTION PLAN DIMENSIONS ARE SUPPLEMENTED WITH FIELD MEASUREMENTS IN THESE AREAS.

DATE:	10-9-80
BY:	S.E.B.
CHECKED BY:	S.E.B.
DATE:	10-30-80
BY:	S.E.B.
CHECKED BY:	S.E.B.
DATE:	12-22-80
BY:	S.E.B.

REVISIONS:	

CITY OF DETROIT

Snell Environmental Group
LANSING INDIANAPOLIS AUSTIN

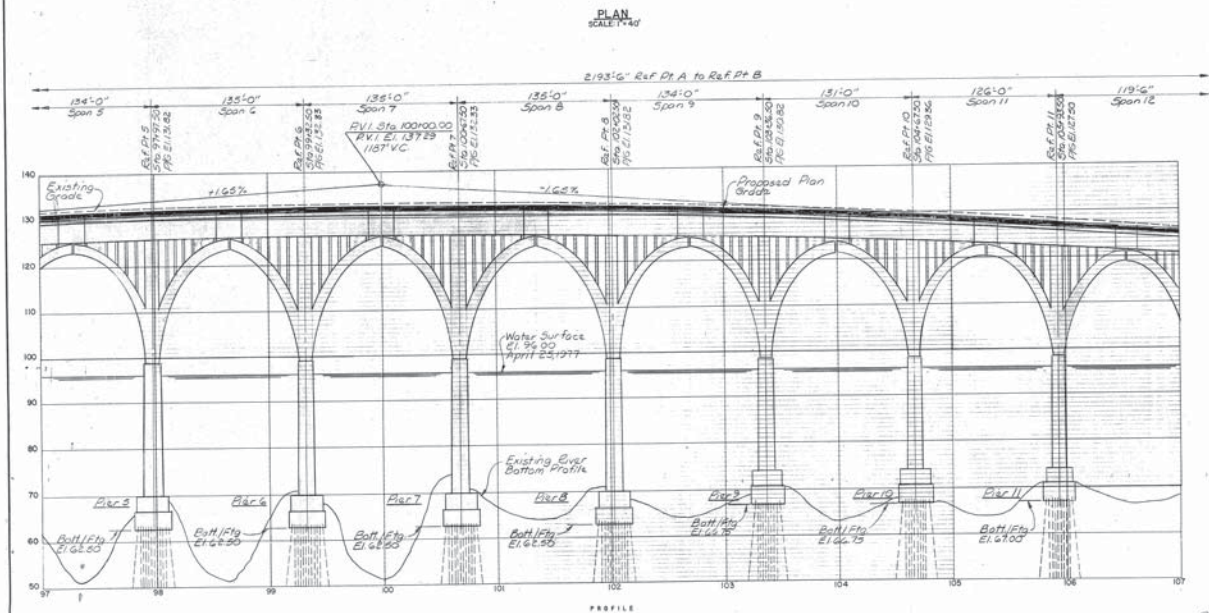
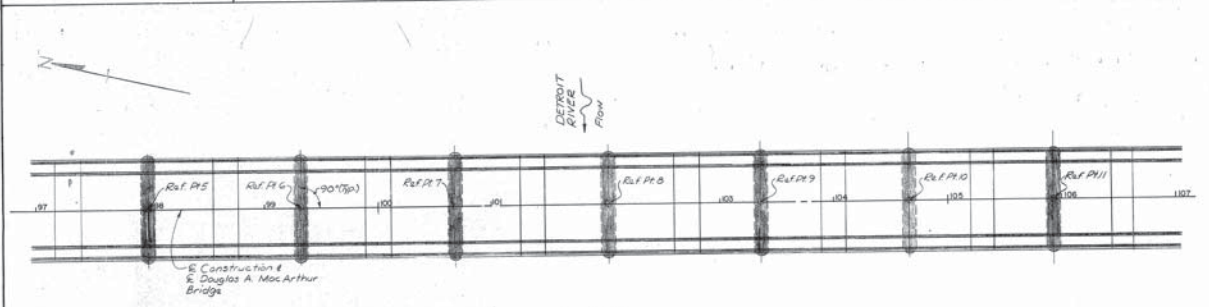
RENOVATION PLANS FOR THE DOUGLAS A. MACARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

GENERAL PLAN OF SITE PLAN AND PROFILE SPANS 1 THRU SPAN 5. SCALE: AS NOTED. DRN. NO. 1 OF 28

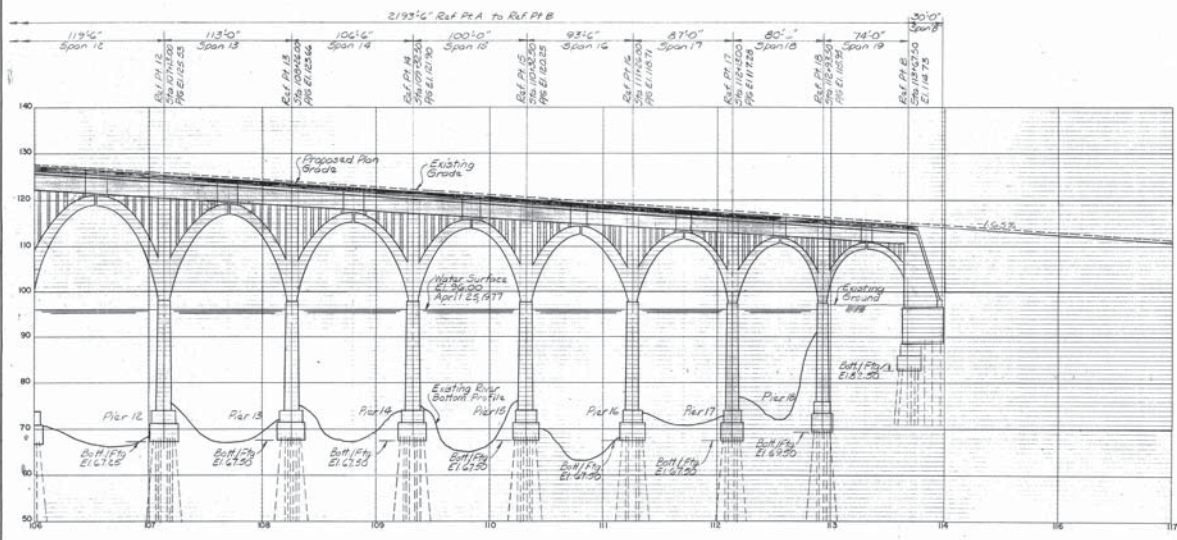
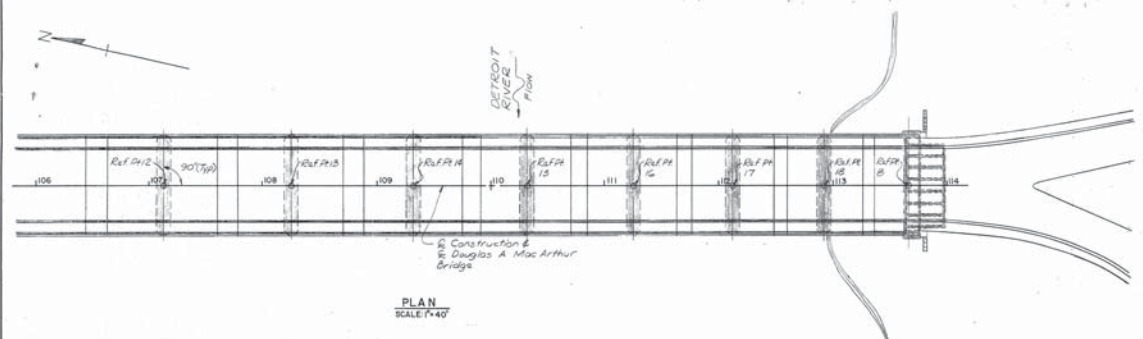
PRELIMINARY PLAN "A" DATE: 10-9-80

REVISIONS: 1. 10/9/80

UTILITIES-BURIED		UTILITIES-ON STRUCTURE	
1-SUBMARINE TELEPHONE CABLE ON THE RIVER BOTTOM, 250' UPSTREAM FROM THE DOUGLAS A. MAC ARTHUR BRIDGE, MICHIGAN BELL TELEPHONE COMPANY.	1-12" DIAMETER WATER MAIN PLACED 4' BELOW THE RIVER BOTTOM, 85' UPSTREAM FROM THE CENTERLINE OF THE DOUGLAS A. MAC ARTHUR BRIDGE, CITY OF DETROIT DEPARTMENT OF WATER SUPPLY.	1-12" SANITARY SEWER PLACED 2' BELOW INTERNATIONAL GREAT LAKES DATUM ELEVATION 571.5 FEET, 370' DOWNSTREAM FROM THE DOUGLAS A. MAC ARTHUR BRIDGE, CITY OF DETROIT.	2-CITY OF DETROIT POLICE DEPARTMENT CABLE 2-CITY OF DETROIT FIRE DEPARTMENT CABLE
			2-CITY OF DETROIT LIGHTING DEPARTMENT CABLE 1-MICHIGAN BELL TELEPHONE COMPANY TEMPORARY TELEPHONE



DESIGNED BY: J.E.B. 10-8-80 CHECKED BY: M.G.H. 10-30-80 APPROVED BY: E.E.B. 10-29-80	CITY OF DETROIT	Snell Environmental Group LANSING INDIANAPOLIS AARON	RENOVATION PLANS FOR THE DOUGLAS A. MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.	PRELIMINARY PLAN 'A' GENERAL PLAN OF SITE PLAN AND PROFILE SPAN 5 THRU SPAN 12	DATE: 10-9-80 SCALE: AS NOTED DRN. NO: 2 of 28
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CITY OF DETROIT



RENOVATION PLANS FOR THE DOUGLAS A MAC ARTHUR BR. OVER THE DETROIT RIVER AT BELLE ISLE IN THE CITY OF DETROIT, MICHIGAN.

PRELIMINARY PLAN 'A' DATE: 10-9-80

GENERAL PLAN OF SITE PLAN AND PROFILE SPAN 12 THRU SPAN 'B'

SCALE: AS NOTED
DRN. NO: 3 of 28

DESIGN BY:	CEB	10-80	REVISIONS:	
CHECK BY:	REH	10-80		
APP'D BY:	CEB	10-80		