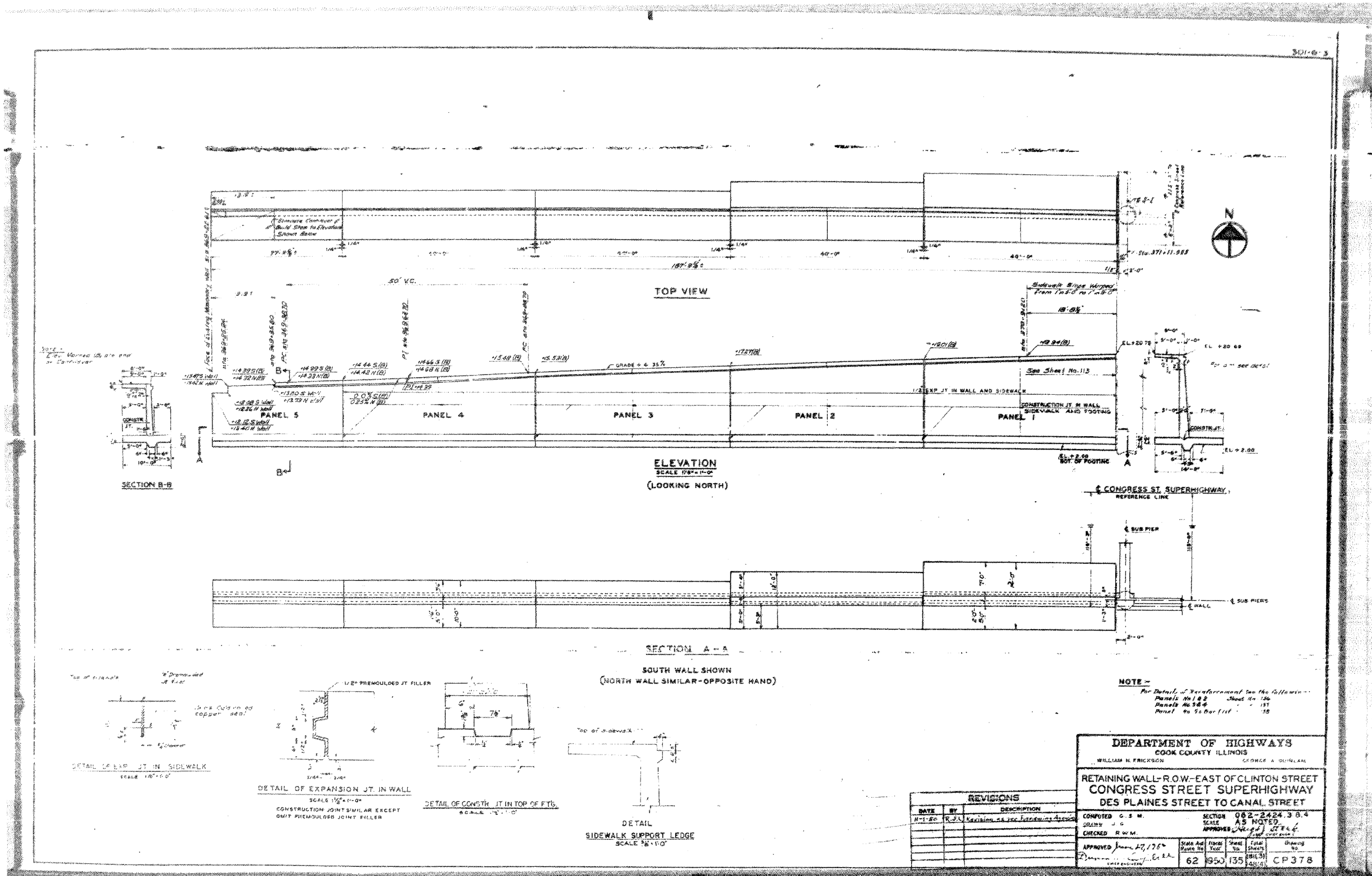
FOR INFORMATION ONLY



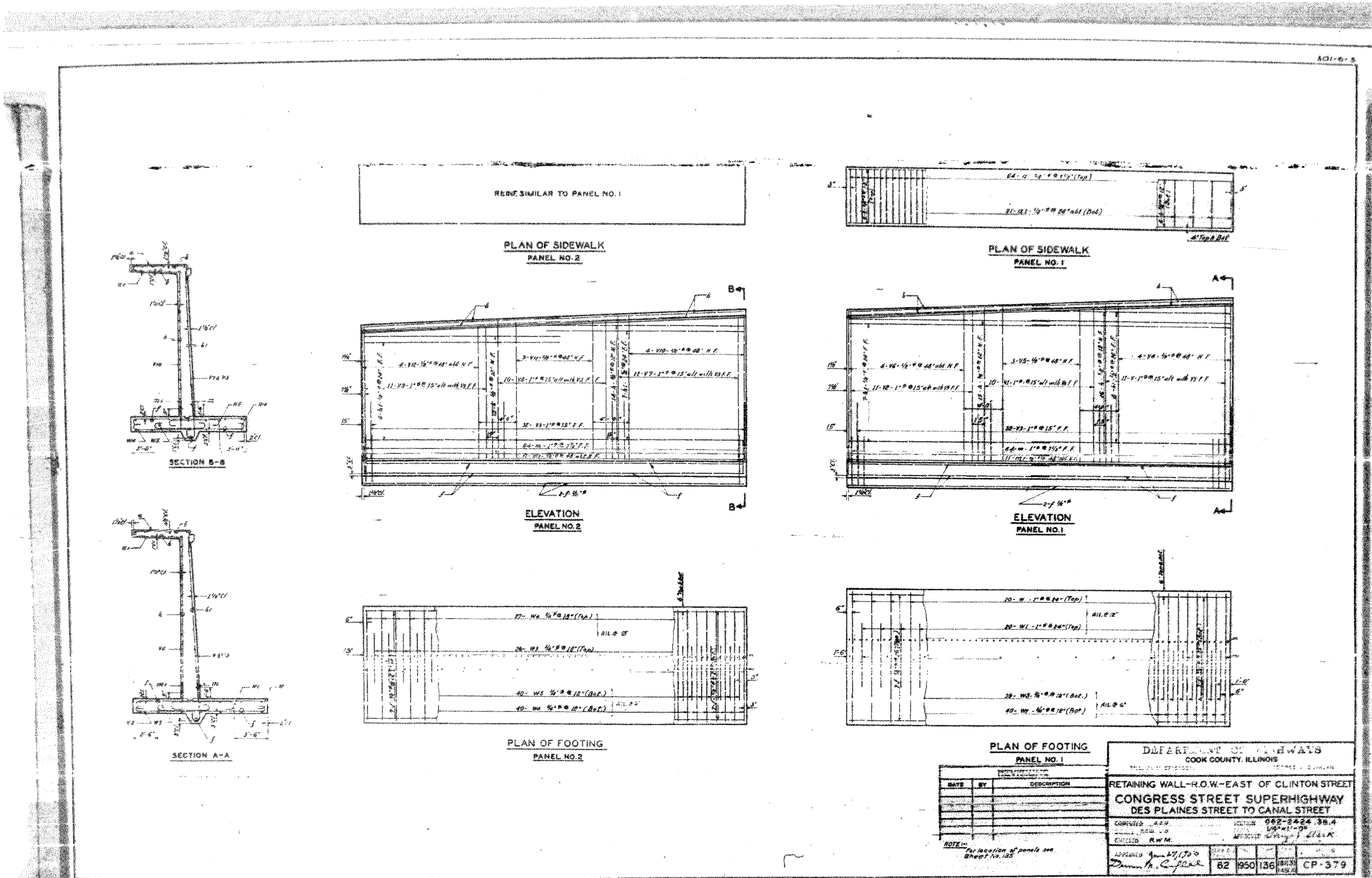
TOP VIEW
ELEVATION
SCALE 1/8" = 1'-0"
(LOOKING NORTH)
PANEL 5
PANEL 4
PANEL 3
PANEL 2
PANEL 1
GRADE + 6.35%
See Sheet No. 113
SECTION B-B
CONGRESS ST. SUPERHIGHWAY REFERENCE LINE
SUB PIER
SECTION A-A
SOUTH WALL SHOWN
(NORTH WALL SIMILAR-OPPOSITE HAND)
NOTE -
DETAIL OF EXP. JT. IN SIDEWALK
DETAIL OF EXPANSION JT. IN WALL
1/2" PREMOULDED JT. FILLER
CONSTRUCTION JOINT SIMILAR EXCEPT OMIT PREMOULDED JOINT FILLER
DETAIL OF CONSTR. JT. IN TOP OF FTG.
DETAIL SIDEWALK SUPPORT LEDGE
REVISIONS
DATE
BY
DESCRIPTION
DEPARTMENT OF HIGHWAYS
COOK COUNTY ILLINOIS
RETAINING WALL-R.O.W.-EAST OF CLINTON STREET
CONGRESS STREET SUPERHIGHWAY
DES PLAINES STREET TO CANAL STREET
CHECKED
APPROVED
AS NOTED
62
1950
135
CP378

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1601
CONTRACT NO. 60X93				
ILLINOIS	FED. AID PROJECT			

2:02:14 PM

FOR INFORMATION ONLY


REINF. SIMILAR TO PANEL NO. 1
PLAN OF SIDEWALK
PANEL NO. 2
PLAN OF SIDEWALK
PANEL NO. 1
SECTION B-B
ELEVATION
PANEL NO. 2
ELEVATION
PANEL NO. 1
SECTION A-A
PLAN OF FOOTING
PANEL NO. 2
PLAN OF FOOTING
PANEL NO. 1
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
DATE
BY
DESCRIPTION
RETAINING WALL-R.O.W.-EAST OF CLINTON STREET
CONGRESS STREET SUPERHIGHWAY
DES PLAINES STREET TO CANAL STREET
CHECKED R.W.M.
NOTE: For location of panels see Sheet No. 135
62
950
136
CP-379

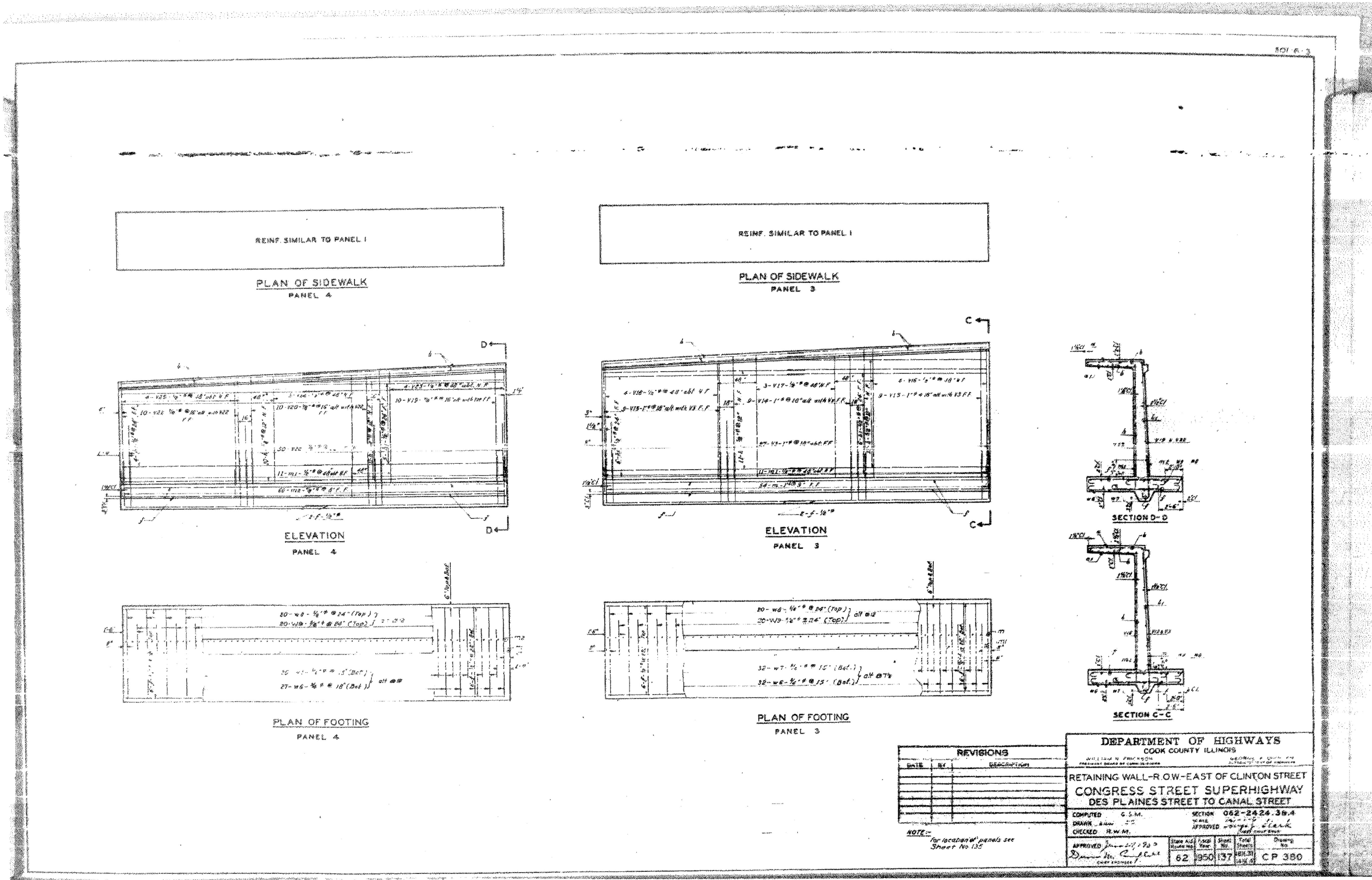
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1602
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY


REINF. SIMILAR TO PANEL I
PLAN OF SIDEWALK
PANEL 4
REINF. SIMILAR TO PANEL I
PLAN OF SIDEWALK
PANEL 3
ELEVATION
PANEL 4
ELEVATION
PANEL 3
SECTION D-D
SECTION C-C
PLAN OF FOOTING
PANEL 4
PLAN OF FOOTING
PANEL 3
REVISIONS
DATE
DESCRIPTION
NOTE:-
For location of panels see Sheet No. 135
DEPARTMENT OF HIGHWAYS
COOK COUNTY ILLINOIS
RETAINING WALL-R.O.W.-EAST OF CLINTON STREET
CONGRESS STREET SUPERHIGHWAY
DES PLAINES STREET TO CANAL STREET
COMPUTED G.S.M.
CHECKED R.W.M.
SECTION 062-2424.3&4
APPROVED
62
950
137
CP 380

USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

HBM ENGINEERING GROUP, LLC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

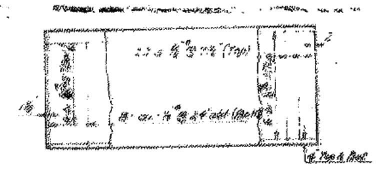
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1603
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing599

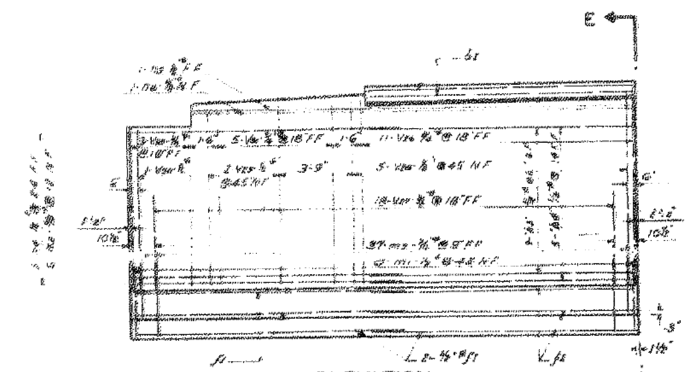
2:02:29 PM

FOR INFORMATION ONLY

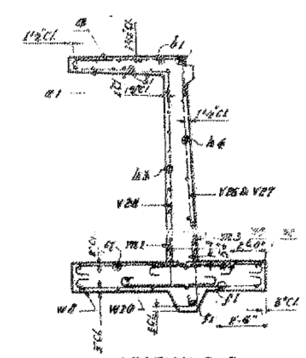
301-6-?



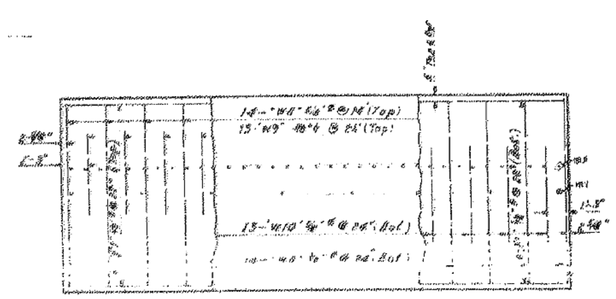
PLAN OF SIDEWALK
PANEL NO. 5



ELEVATION
PANEL NO. 5



SECTION E-E



PLAN OF FOOTING
PANEL NO. 5

NOTE:-
FOR LOCATION OF PANEL SEE SHEET NO. 135

BILL OF MATERIAL

TYPE 1 — TYPE 2

LOCATION	MARK	NO	SIZE	LENGTH	SKETCH	TYPE	A	B	C	G	H	J
Panel No. 1 Footing	w	40	1"	15-3		1	1-1	13-7		1-1		10
"	w1	40	1"	8-3		1	1-1	6-7		1-1		10
"	w2	48	3/4"	14-9		1	8	13-5		8		6
"	w3	74	3/4"	6-9		1	8	5-5		8		6
"	f	48	1/2"	20-1								
"	m	[illegible]	1"	6-0								
"	m1	22	1/2"	2-3								
Vertical Arm	v	22	1"	16-6								
"	v1	20	1"	15-9								
"	v2	22	1"	15-3								
"	v3	64	1"	6-0								
"	v4	8	1/2"	16-6								
"	v5	6	1/2"	16-3								
"	v6	8	1/2"	15-3								
"	h	62	5/8"	20-3								
"	h1	30	1/2"	20-6								
Cantilever	b	46	5/8"	20-9								
"	a	128	5/8"	6-9		2	7	3-6	2-6			5
"	a1	42	1/2"	3-3								
Panel No. 2 Footing	w4	134	3/4"	13-0		1	8	11-8		8		6
"	w5	132	3/4"	6-6		1	8	5-2		8		6
"	f	60	1/2"	20-6								
"	m	126	1"	6-9		See Panel No. 1						
"	m1	22	1/2"	2-3								
Vertical Arm	v3	64	1"	6-0								
"	v7	22	1"	14-9								
"	v8	20	1"	14-0								
"	v9	22	1"	13-6								
"	v10	8	1/2"	14-9								
"	v11	6	1/2"	14-0								
"	v12	8	1/2"	13-6								
"	h	54	5/8"	20-3								
"	h1	56	1/2"	20-6								
Cantilever	a	128	5/8"	3-9		See Panel No. 1						
"	a1	42	1/2"	3-3								
"	b	46	5/8"	20-9								
Panel No. 3 Footing	w6	64	3/4"	11-0		1	8	9-8		8		6
"	w7	64	3/4"	6-0		1	8	4-8		8		6
"	w8	48	5/8"	10-9		1	7	9-7		7		5
"	w9	48	5/8"	5-6		1	7	4-4		7		5
"	f	32	1/2"	20-6								
"	m	108	1"	6-3		See Panel No. 1						
"	m1	28	1/2"	2-3								
Vertical Arm	v3	54	1"	6-0								
"	v13	18	1"	13-0								
"	v14	18	1"	12-3								
"	v15	18	1"	11-9								
"	v16	8	1/2"	13-6								
"	v17	6	1/2"	12-3								
"	v18	8	1/2"	11-9								
"	h	48	5/8"	20-3								
"	h1	56	1/2"	20-6								
Cantilever	a	128	5/8"	8-9		See Panel No. 1						
"	a1	42	1/2"	5-3								
"	b	46	5/8"	20-9								
Panel No. 4 Footing	w6	[illegible]	[illegible]	[illegible]		See Panel No. 3						
"	w7	[illegible]	3/4"	6-0		See Panel No. 3						
"	w8	40	5/8"	10-3		See Panel No. 3						
"	w9	40	5/8"	5-6		See Panel No. 3						
"	f	32	1/2"	20-6								
"	m1	22	1/2"	2-9								
"	m2	120	3/4"	5-9		1	10	4-11				7
Vertical Arm	v19	20	7/8"	11-3								
"	v20	20	7/8"	10-6								
"	v21	20	7/8"	10-3								
"	v22	60	7/8"	6-6								
Vertical Arm	v23	6	1/2"	11-3								
"	v24	6	1/2"	10-6								
"	v25	6	1/2"	10-3								
"	h	42	5/8"	20-3								
"	h1	14	1/2"	20-6								
Cantilever	a	128	5/8"	8-9		See Panel No. 1						
"	a1	42	1/2"	5-3								
"	b	46	5/8"	20-9								
Panel No. 5 Footing	w8	56	5/8"	10-3		See Panel No. 3						
"	w9	26	5/8"	5-6		See Panel No. 3						
"	w10	26	5/8"	6-3		1	7	5-1		7		5
"	f1	30	1/2"	14-9								
"	m1	10	1/2"	2-3								
"	m3	74	5/8"	8-6		1	8	6-6				6
Vertical Arm	v26	22	3/4"	10-6								
"	v27	36	3/4"	5-6								
"	v28	10	1/2"	10-0								
"	h3	36	1/2"	14-6								
"	h4	20	1/2"	14-3								
Cantilever	a	46	5/8"	8-9		See Panel No. 1						
"	a1	16	1/2"	5-3								
"	b1	24	5/8"	13-9								
Vertical Arm	V29	4	1/2"	9-6								
"	V30	2	1/2"	8-0								
"	V31	10	5/8"	9-6								
"	h5	2	1/2"	23-0								
"	h6	2	5/8"	23-0								
"	V32	6	5/8"	8-0								

Reinforcement Bars — for Sheets No. 135, 136, 137, & 138 — 57,007 Lbs.
Class "X" Concrete — 360.4 Cu. Yds.

REVISIONS		
DATE	BY	DESCRIPTION

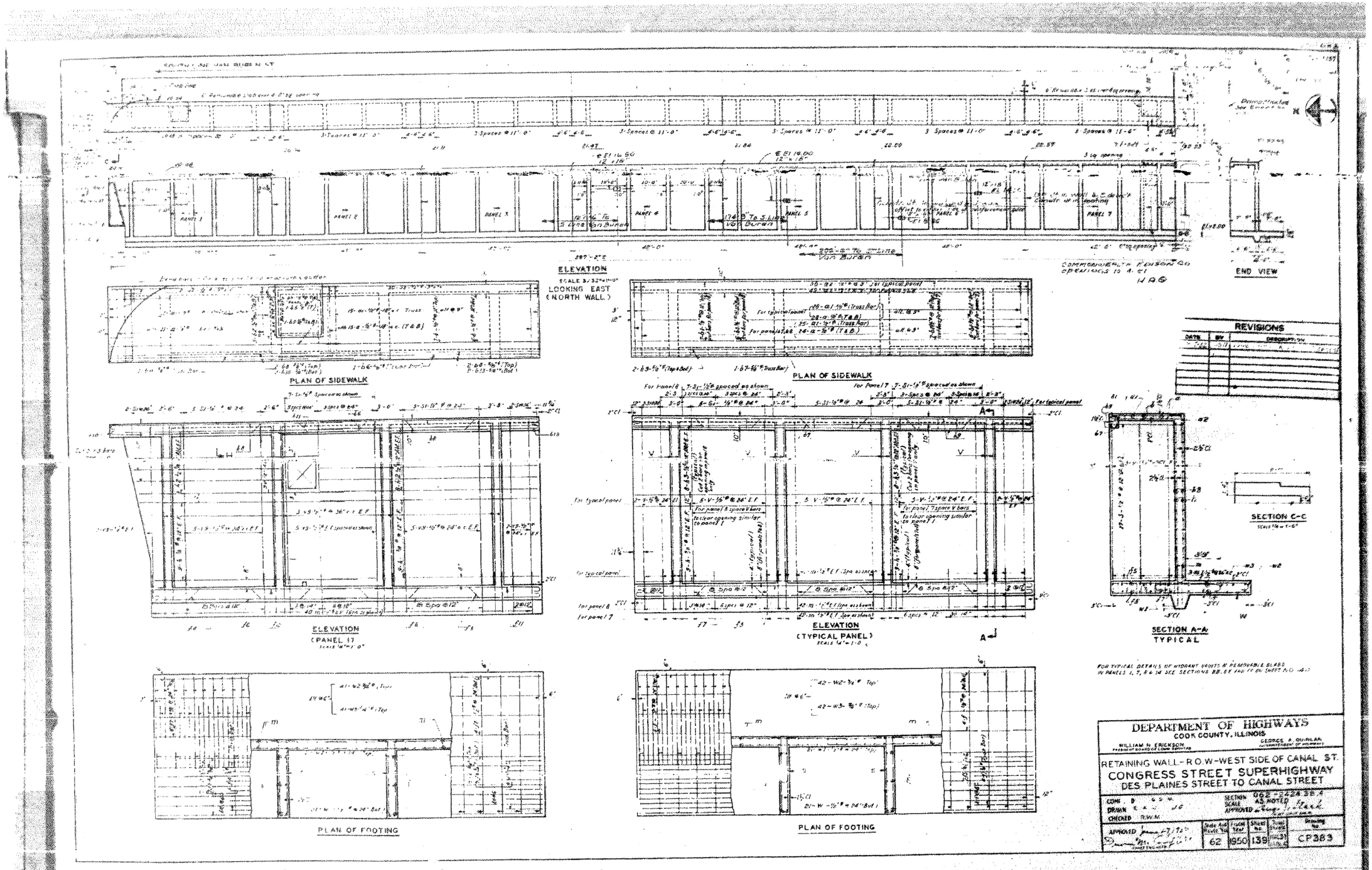
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
WILLIAM J. ERICKSON — GEORGE L. QUINLAN

RETAINING WALL-R.O.W.-EAST OF CLINTON STREET
CONGRESS STREET SUPERHIGHWAY
DES PLAINES STREET TO CANAL STREET

COMPUTED E.S.H. — SECTION 062-2424.38.4
DRAWN — SCALE 1/4"=1'-0"
CHECKED R.W.M. — APPROVED
APPROVED June 27, 1950

State Aid Route No.	Fiscal Year	Sheet No.	Total Sheets	Drawing No.
62	1950	138	[illegible]	CP 381

FOR INFORMATION ONLY



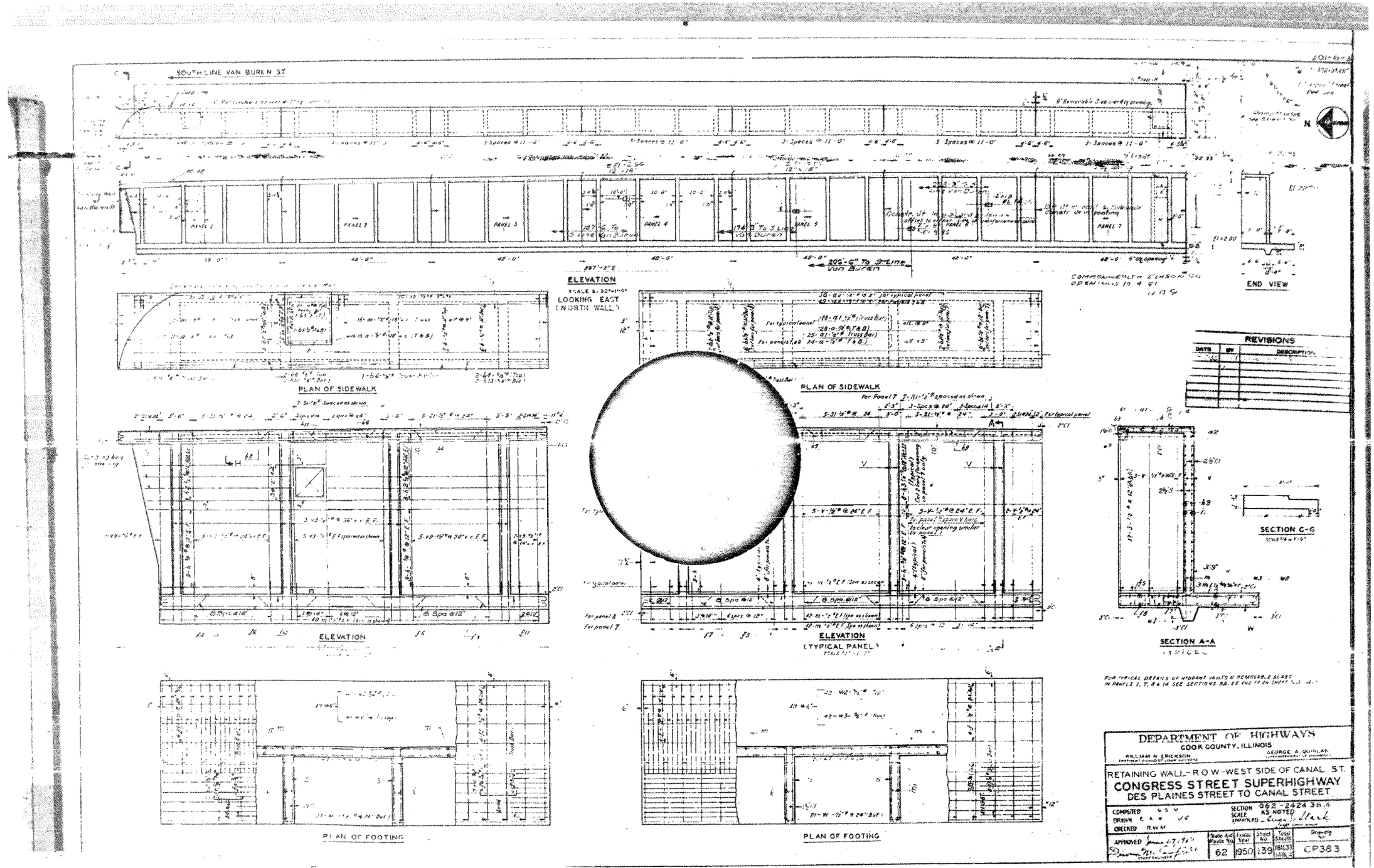
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1605
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\617479-PWINT.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CircletPhase_IN\000_CAD\008_StructuralStructure_016-1718\Existing Plans\0160461-60X93-SXX-Existing601

2:02:58 PM

FOR INFORMATION ONLY



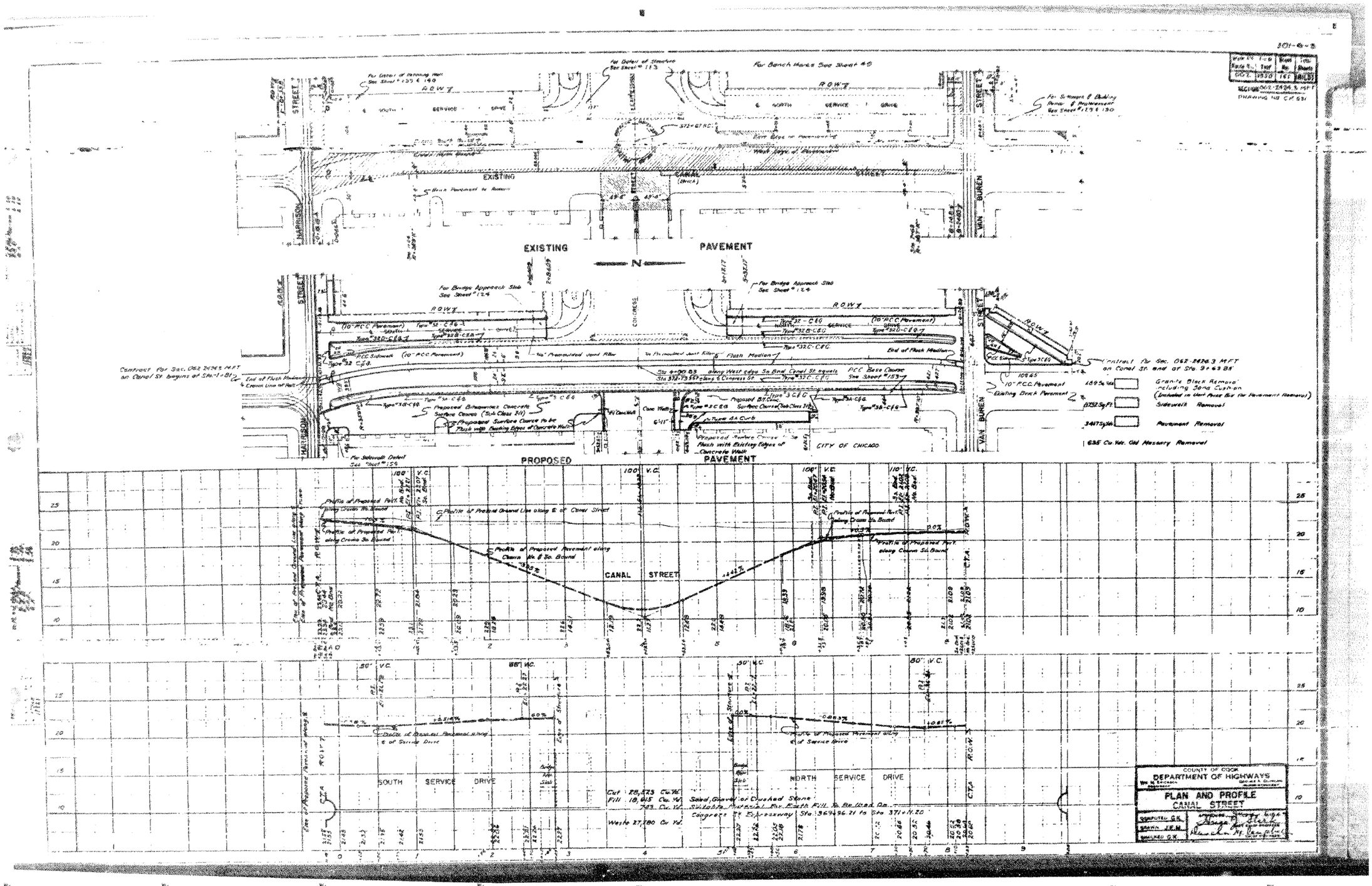
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1606
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\0160461-60X93-SXX-Existing602

2:03:06 PM

FOR INFORMATION ONLY



USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
	CHECKED -	REVISED -		
PLOT SCALE = N.T.S	DRAWN -	REVISED -		
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

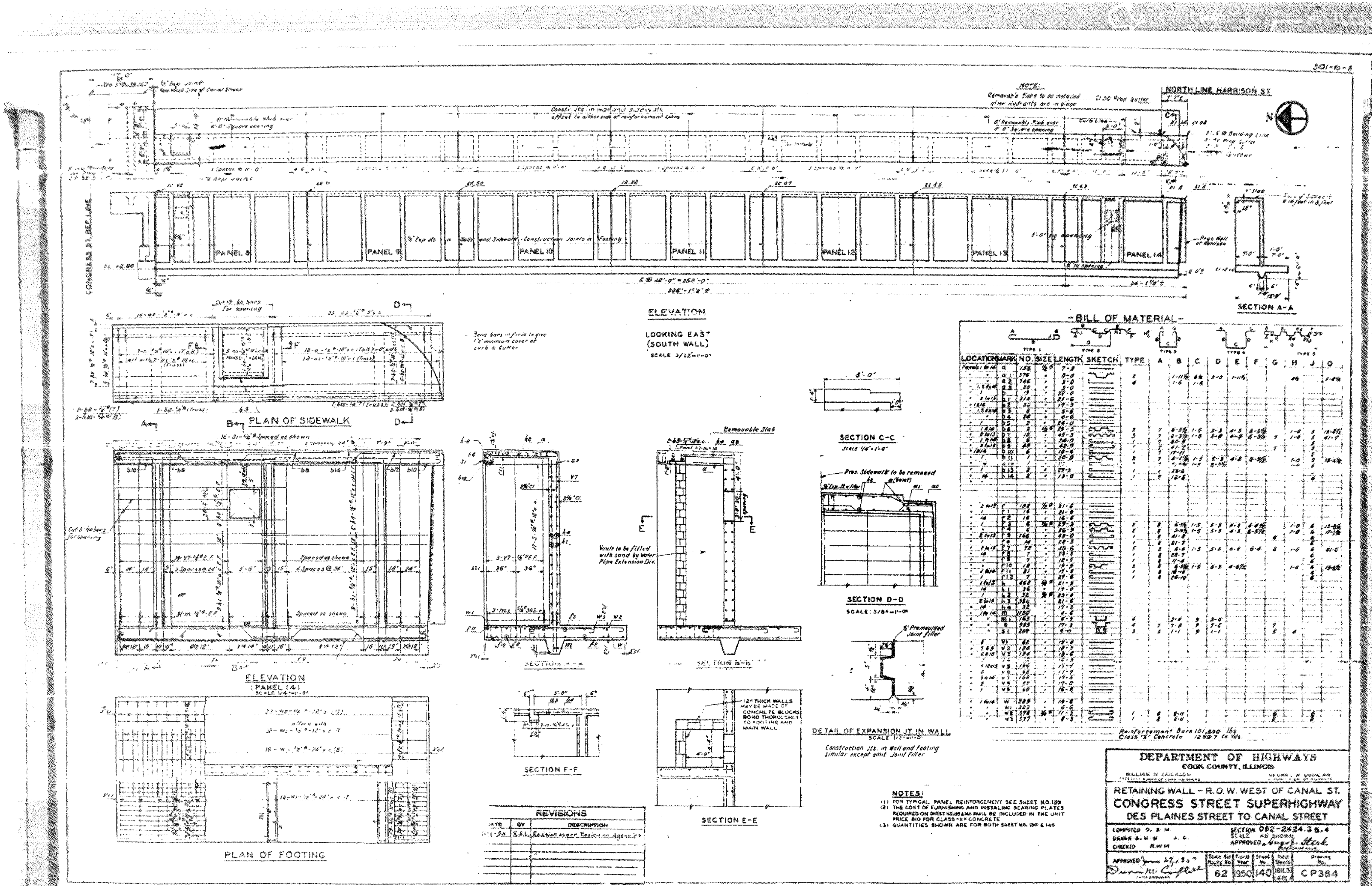
HBM ENGINEERING GROUP, LLC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1607
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\0160461-60X93-SXX-Existing603

2:03:14 PM

FOR INFORMATION ONLY



USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
	CHECKED -	REVISED -		
PLOT SCALE = N.T.S	DRAWN -	REVISED -		
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

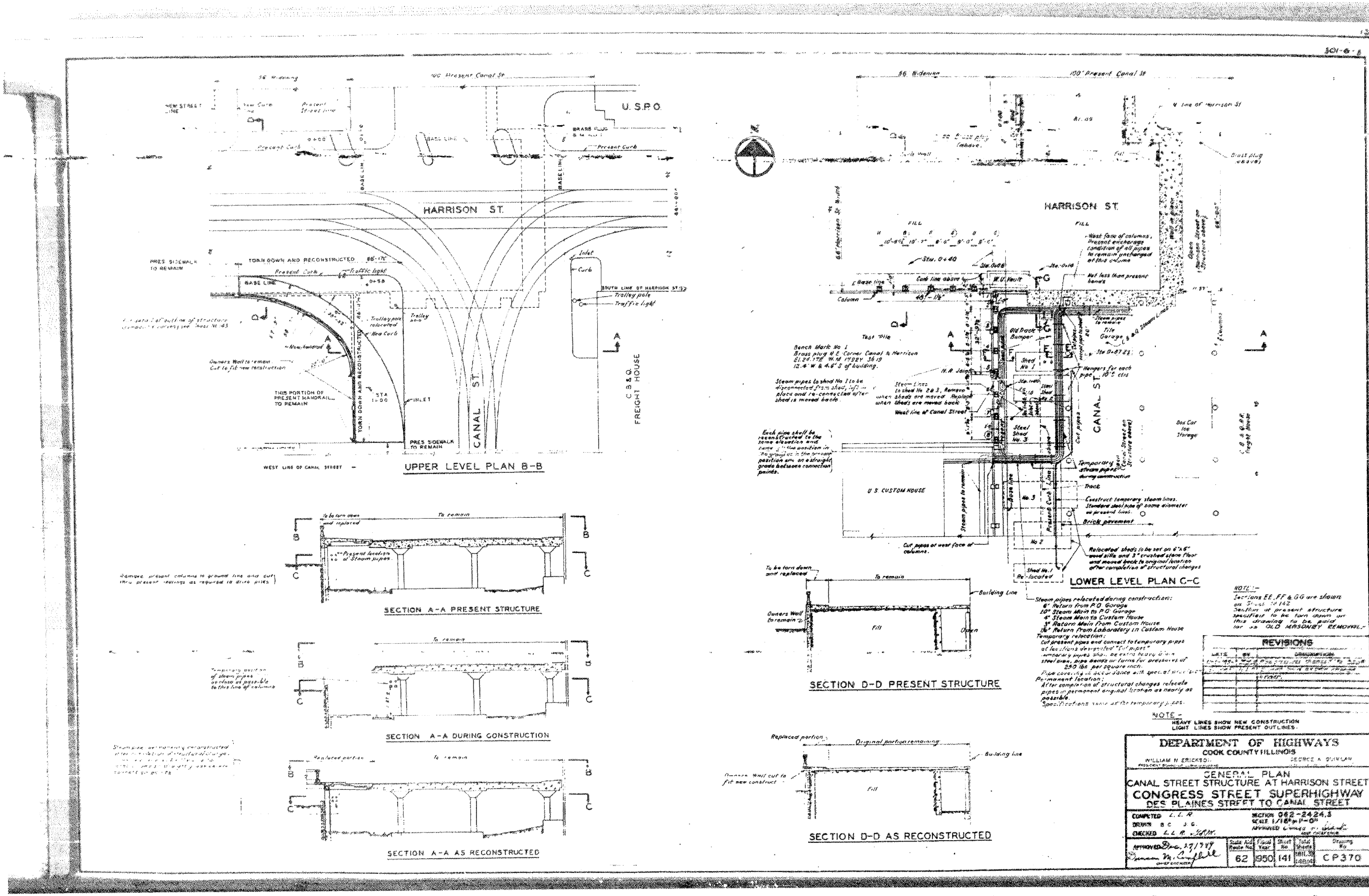
HBM ENGINEERING GROUP, LLC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1608
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing604

2:03:22 PM

FOR INFORMATION ONLY

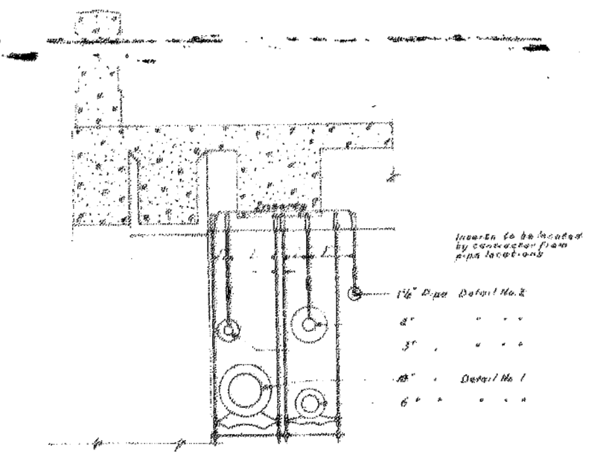

HARRISON ST.
CANAL ST.
U.S.P.O.
C B&Q FREIGHT HOUSE
UPPER LEVEL PLAN B-B
SECTION A-A PRESENT STRUCTURE
SECTION A-A DURING CONSTRUCTION
SECTION A-A AS RECONSTRUCTED
U.S. CUSTOM HOUSE
LOWER LEVEL PLAN C-C
SECTION D-D PRESENT STRUCTURE
SECTION D-D AS RECONSTRUCTED
REVISIONS
NOTE - HEAVY LINES SHOW NEW CONSTRUCTION LIGHT LINES SHOW PRESENT OUTLINES.
DEPARTMENT OF HIGHWAYS
COOK COUNTY ILLINOIS
GENERAL PLAN
CANAL STREET STRUCTURE AT HARRISON STREET
CONGRESS STREET SUPERHIGHWAY
DES PLAINES STREET TO CANAL STREET
CP370

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing605

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1609
	PLOT SCALE = N.T.S	DRAWN -	REVISED -			CONTRACT NO. 60X93				
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -				ILLINOIS	FED. AID PROJECT		

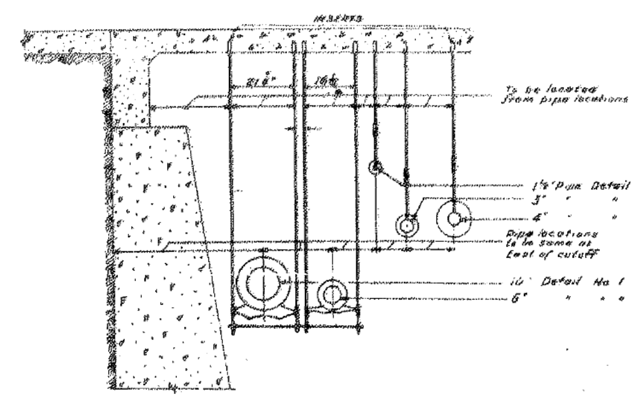
2:03:30 PM

FOR INFORMATION ONLY



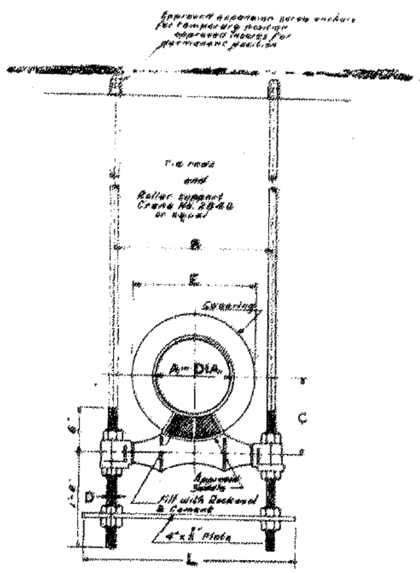
SECTION F-F

PERMANENT LOCATION OF PIPES
AFTER COMPLETION OF STRUCTURAL CHANGES



SECTION G-G

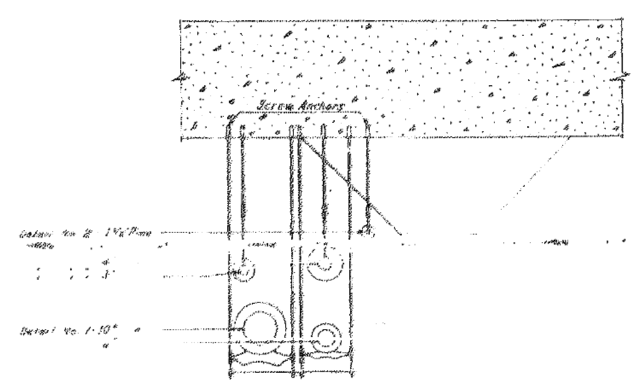
PERMANENT LOCATION OF PIPES
AFTER COMPLETION OF STRUCTURAL CHANGES



A	B	C	D	E	L
6	16 [illegible]	7 [illegible]	[illegible]	9 [illegible]	19 [illegible]
10	21 [illegible]	10 [illegible]	1 [illegible]	18	24 [illegible]

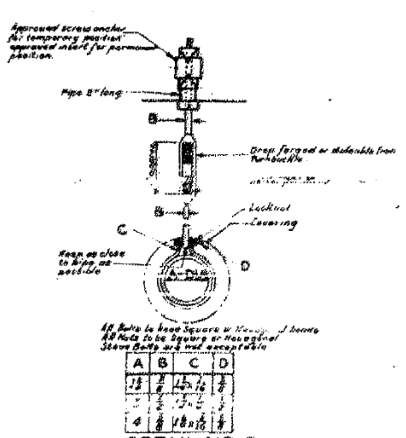
NOTE:
Dimensions are given in inches

DETAIL NO. 1



SECTION E-E

TEMPORARY LOCATION
OF PIPES DURING CONSTRUCTION



DETAIL NO. 2
DETAIL OF HANGERS
FOR STEAM PIPES

NOTE:
For Location of Sections E-E, F-F & G-G See Sheet No. 141

REVISIONS

DATE	BY	DESCRIPTION
[illegible]	[illegible]	[illegible]

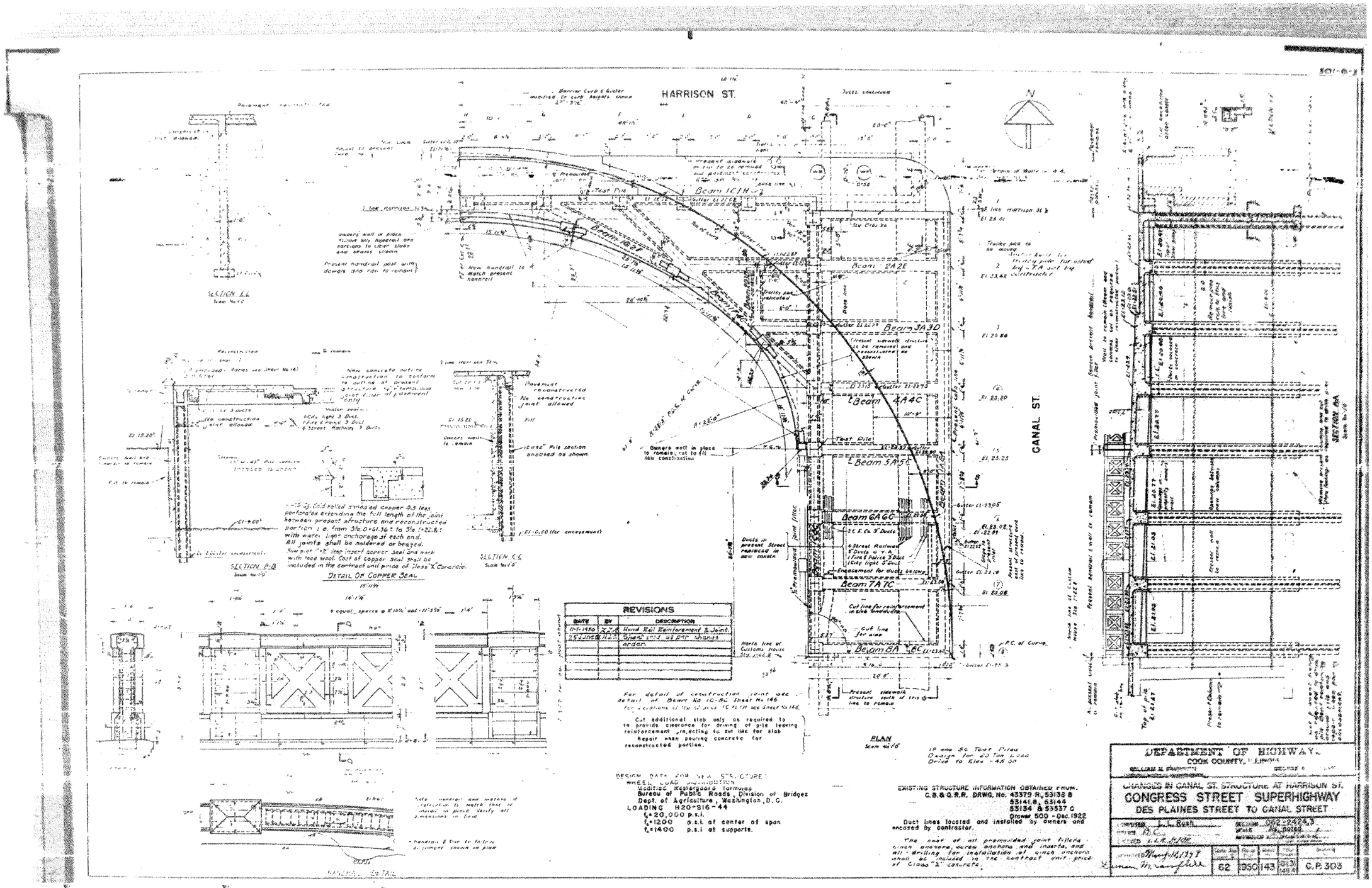
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

GENERAL DETAILS
CANAL STREET STRUCTURE AT HARRISON STREET
CONGRESS STREET SUPERHIGHWAY
DES PLAINES STREET TO CANAL STREET

COMPUTED L.L.R.
DRAWN G.K.
CHECKED L.L.R.
SECTION 062-2424.3&6
SCALE ⅛"=1'-0" & AS SHOWN

62	1950	142		CP 424

FOR INFORMATION ONLY



16 ga. Cold rolled annealed copper 0.5 less perforated extending the full length of the joint between present structure and reconstructed portion i.e. from Sta. 0+61.36 ± to Sta. 1+22.8 ± with water tight anchorage at each end. All joints shall be soldered or brazed. Saw cut 1"×2" step insert copper seal and pack with lead wool. Cost of copper seal shall be included in the contract unit price of Class "X" Concrete.

REVISIONS		
DATE	BY	DESCRIPTION
11-1-1950	Z.A.	Hand Rail Reinforcement & Joint.
25 June	H.A.S.	Sheet void as per change order.

For detail of construction joint see detail of Beam No 1C-8C Sheet No 146

For elevations of top of arms 1C to 1H see Sheet No 146.

Cut additional slab only as required to provide clearance for driving of pile leaving reinforcement projecting to cut line for slab. Repair when pouring concrete for reconstructed portion.

DESIGN DATA FOR NEW STRUCTURE:
WHEEL LOAD DISTRIBUTION
Modified Westergaard formulas
Bureau of Public Roads, Division of Bridges
Dept. of Agriculture, Washington, D.C.
LOADING H20-S16-44
f_s=20,000 p.s.i.
f_c=1200 p.s.i. at center of span
f_c=1400 p.s.i. at supports.

1P and 5C Test Piles
Design for 20 Ton Load
Drive to Elev. -45.30

EXISTING STRUCTURE INFORMATION OBTAINED FROM.
C.B.&Q.R.R. DRWG. No. 43379 R, 53138 B
53141 B, 53144
53134 & 53537 C
Drawer 500 - Dec. 1922

Duct lines located and installed by owners and encased by contractor.

The cost of all premoulded joint fillers, cinch anchors, screw anchors and inserts, and all drilling for installation of cinch anchors shall be included in the contract unit price of Class "X" concrete.

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

CHANGES IN CANAL ST. STRUCTURE AT HARRISON ST.
CONGRESS STREET SUPERHIGHWAY
DES PLAINES STREET TO CANAL STREET

Computed L. L. Rush
Section 062-2424.3
Scale As noted

Approved May 14, 1947

62	1950	143	333 / 469	C.P. 303

HBM
ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

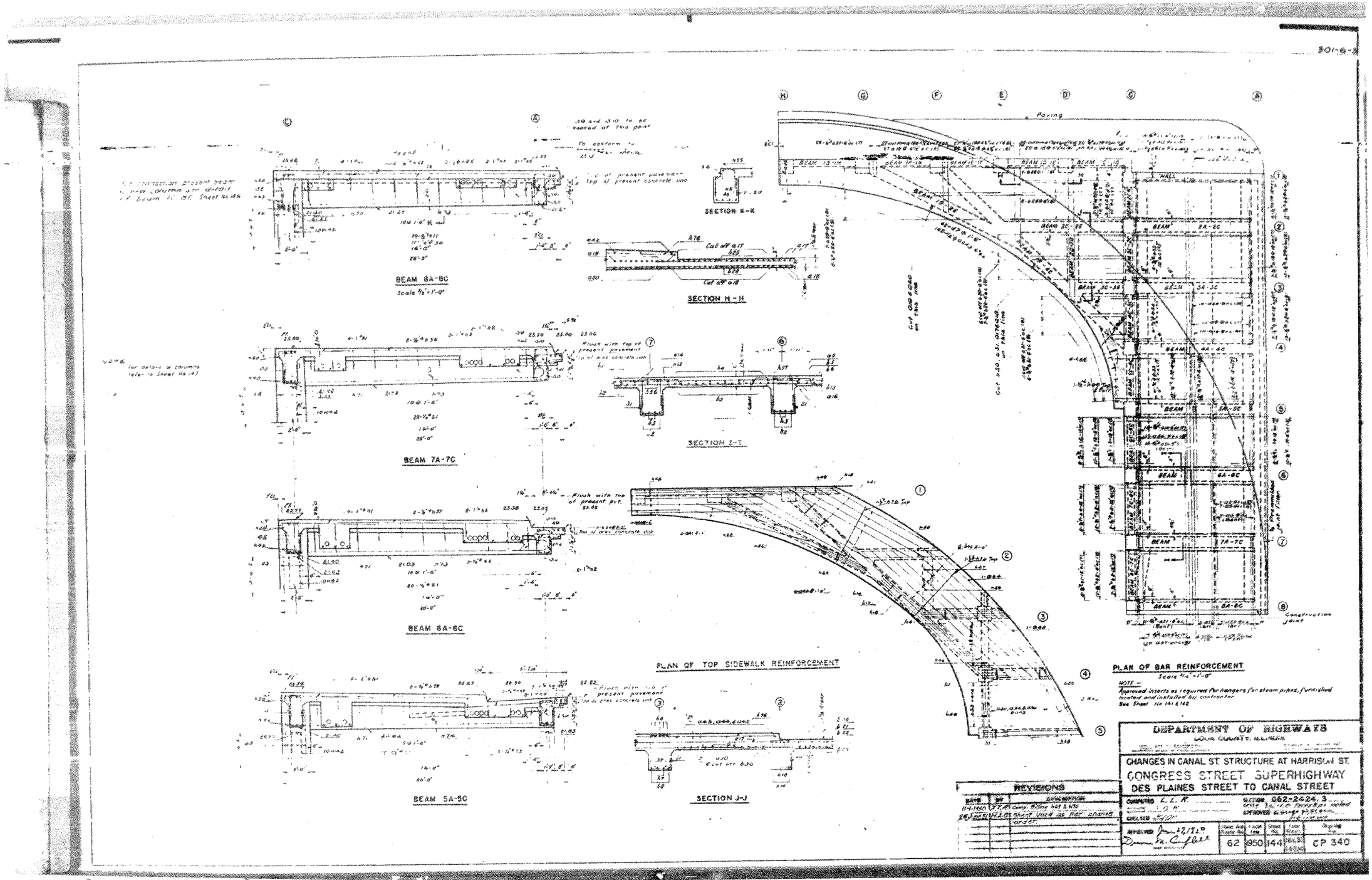
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1611
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\61479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing607

2:03:46 PM

FOR INFORMATION ONLY

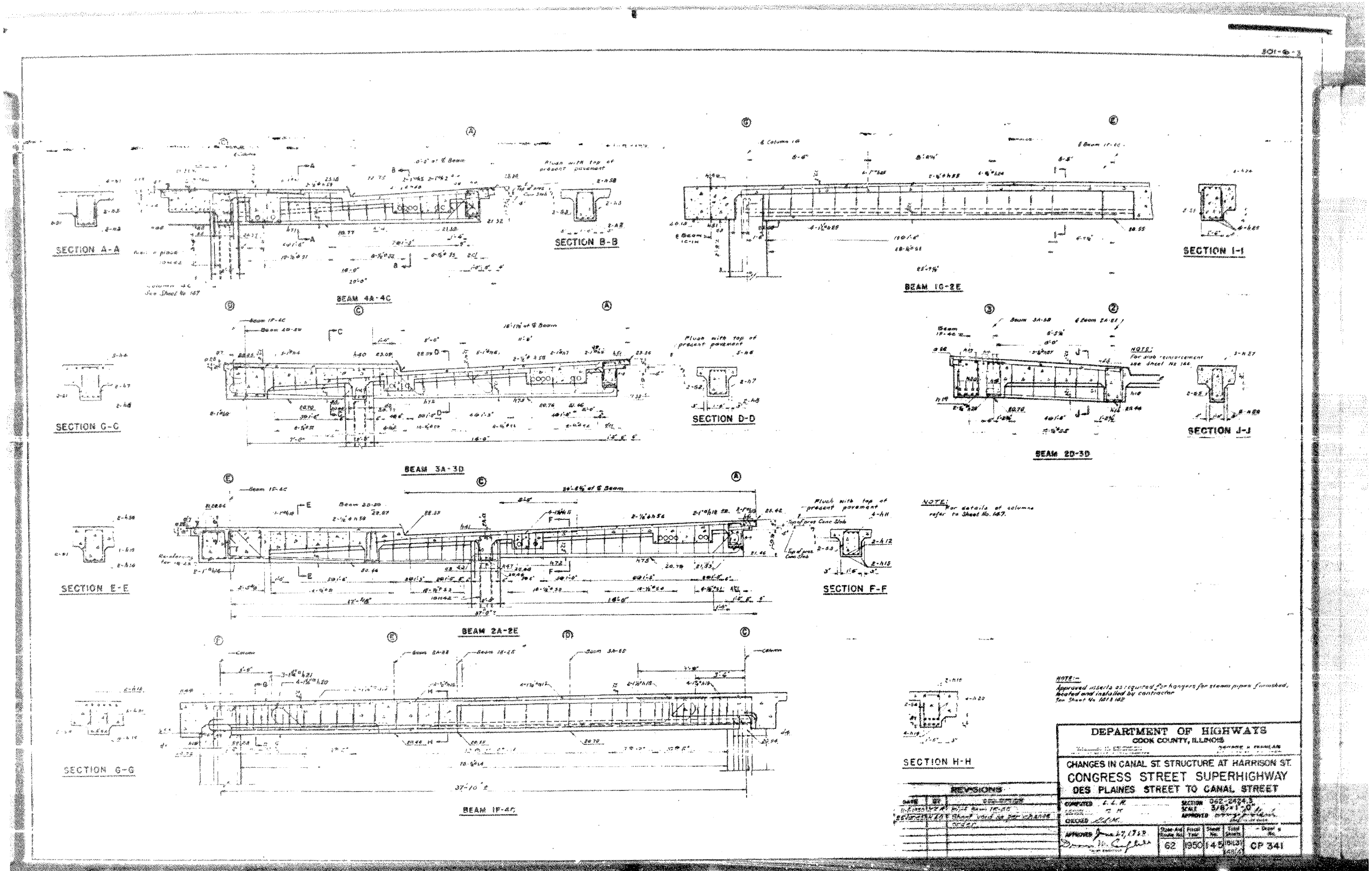


HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1612
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\0160461-60X93-SXX-Existing608

2:03:53 PM

FOR INFORMATION ONLY



USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
	CHECKED -	REVISED -		
PLOT SCALE = N.T.S	DRAWN -	REVISED -		
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

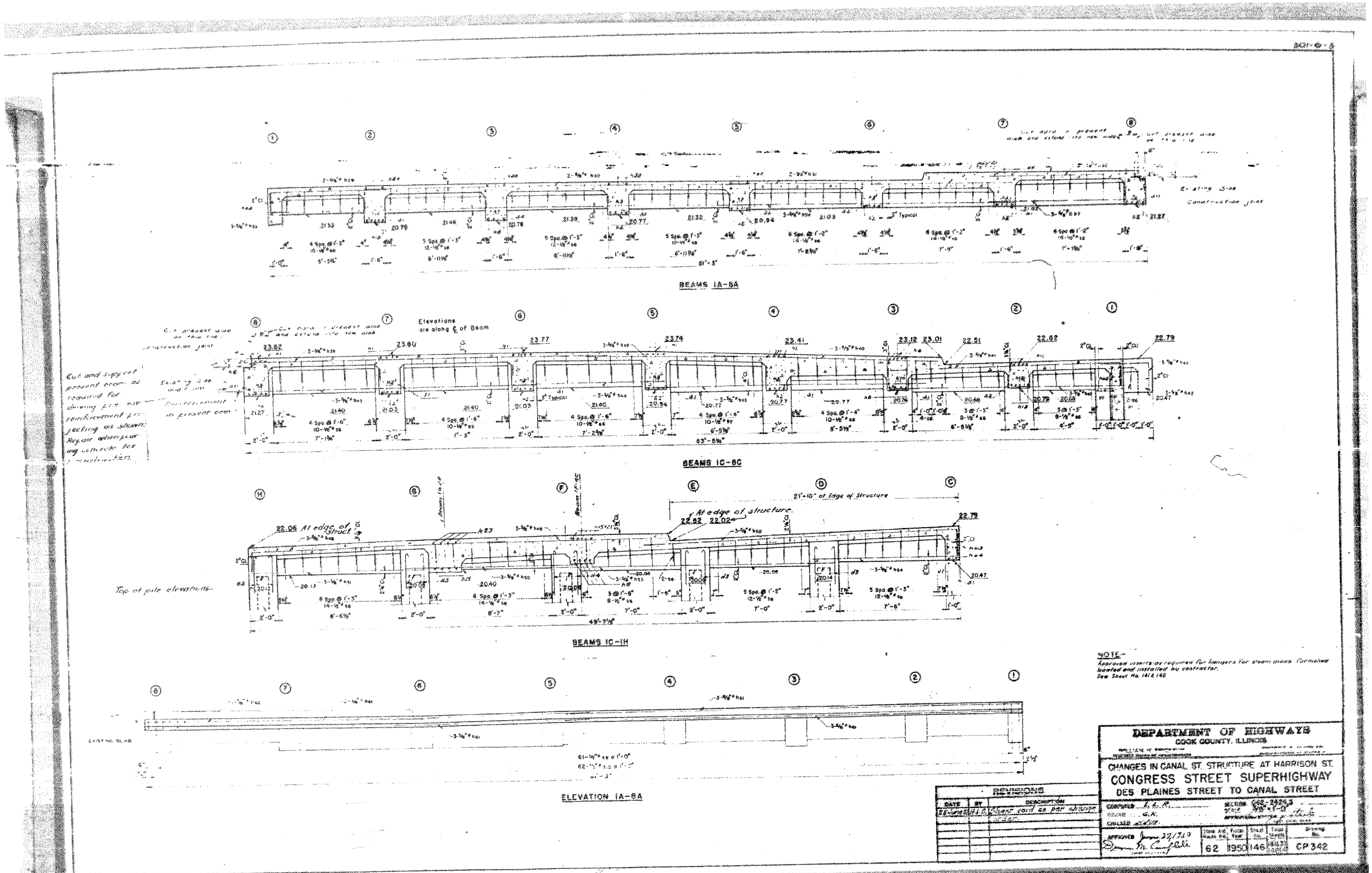
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1613
CONTRACT NO. 60X93				
ILLINOIS	FED. AID PROJECT			

HBM ENGINEERING GROUP, LLC

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing609

2:04:01 PM

FOR INFORMATION ONLY



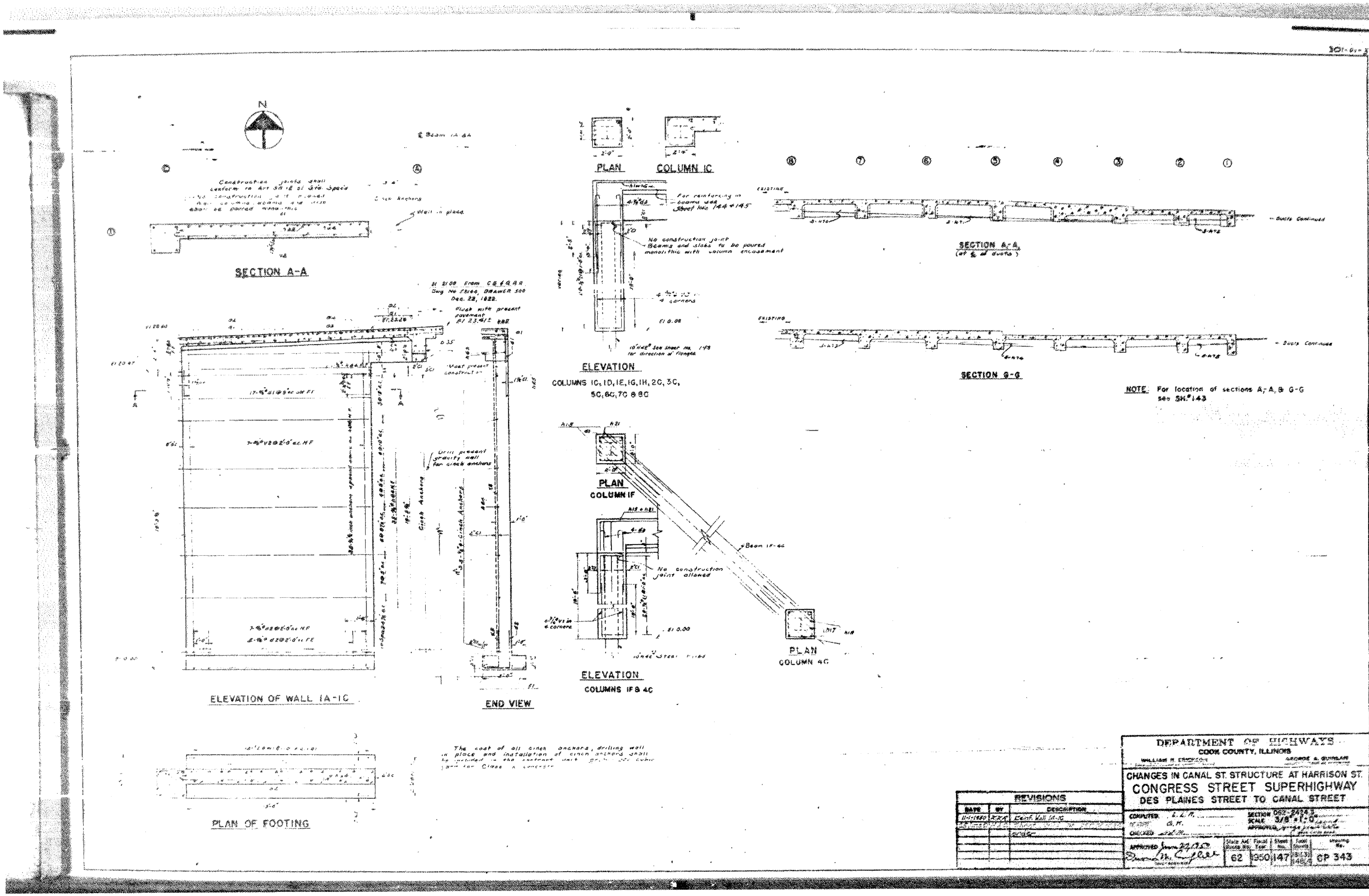
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing610

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1614
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

2:04:09 PM

FOR INFORMATION ONLY



FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing611

HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

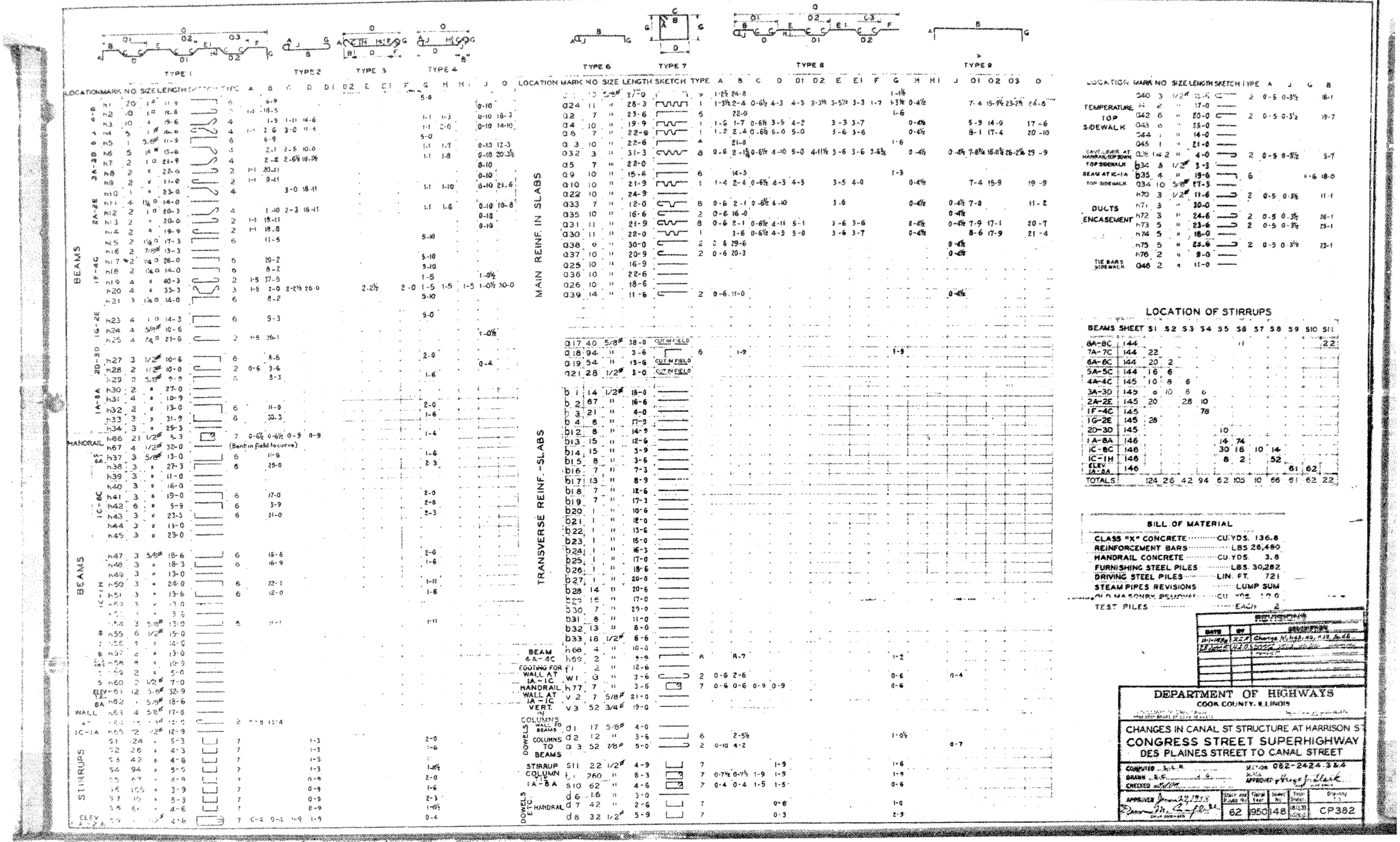
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1615
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

2:04:17 PM

FOR INFORMATION ONLY



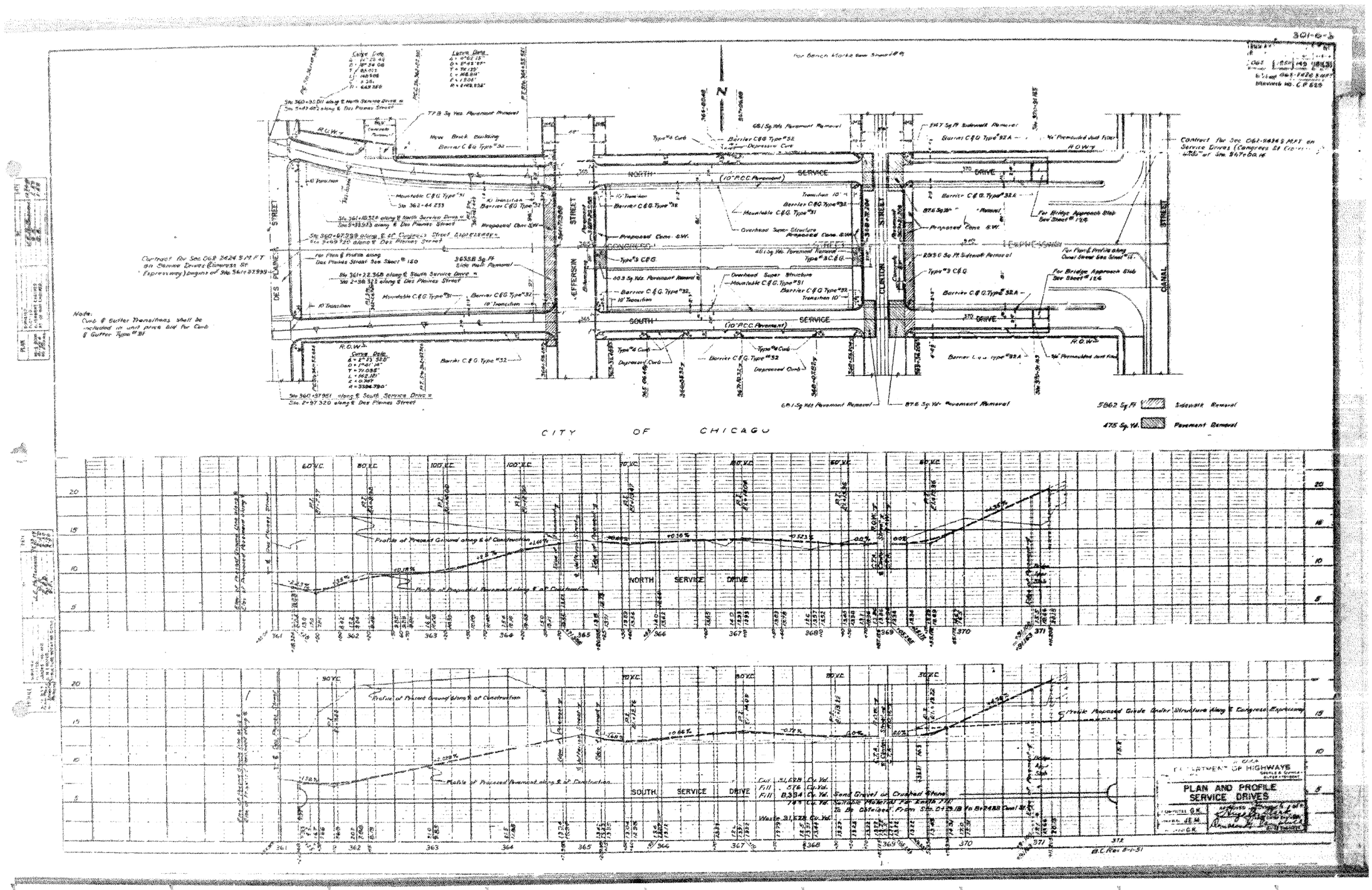
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1616
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



CITY OF CHICAGO

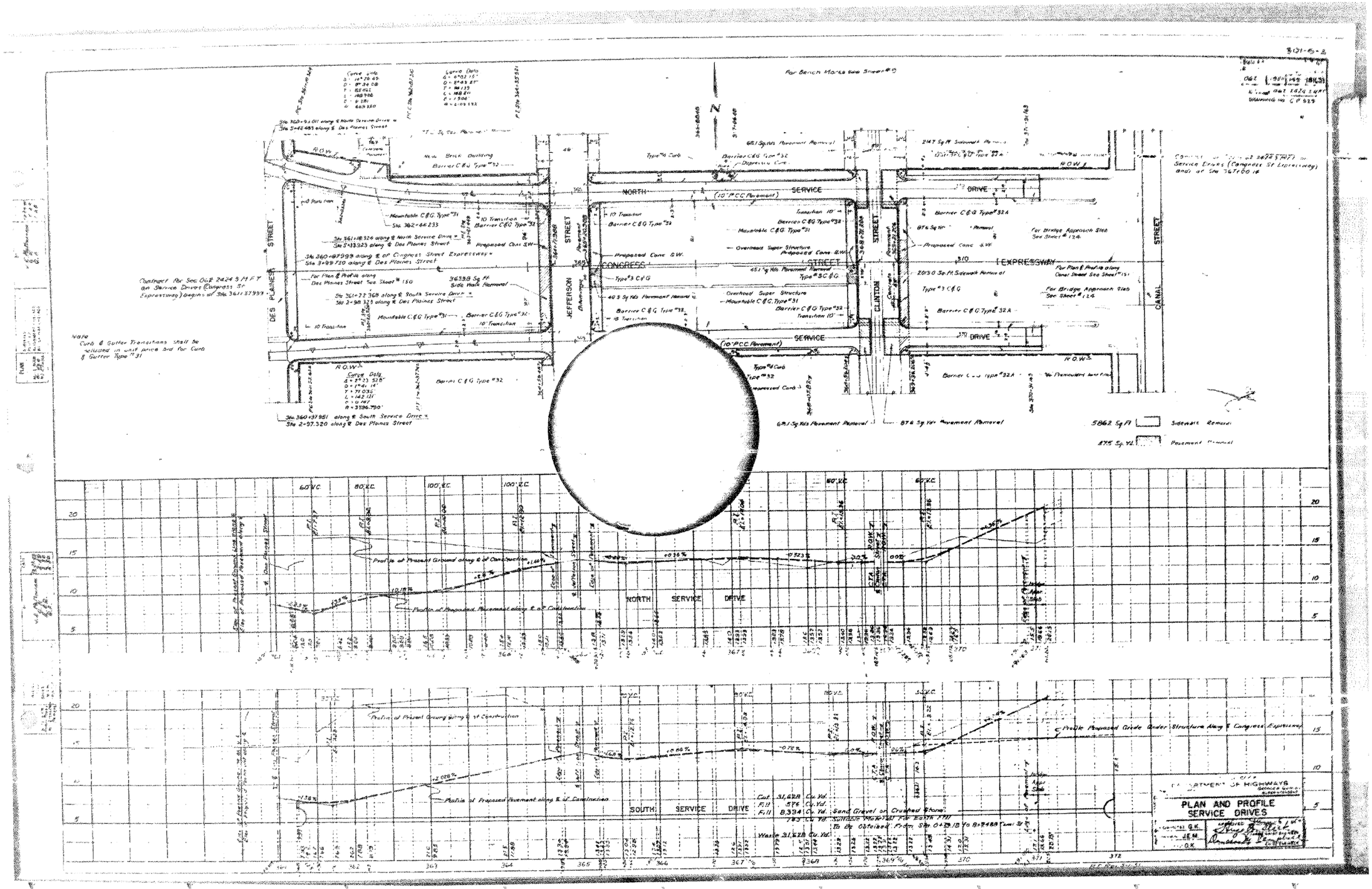
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1617
PLOT SCALE = N.T.S	DRAWN -	REVISED -							CONTRACT NO. 60X93
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC

FILE NAME: pw:\617479-PWINT.aecomonline.localsAECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing613

2:04:34 PM

FOR INFORMATION ONLY



USER NAME =	ahmad.issa	DESIGNED -		REVISED -	
		CHECKED -		REVISED -	
PLOT SCALE =	N.T.S	DRAWN -		REVISED -	
PLOT DATE =	7/26/2018	CHECKED -	MI, MAI	REVISED -	

HBM
ENGINEERING GROUP, LLC

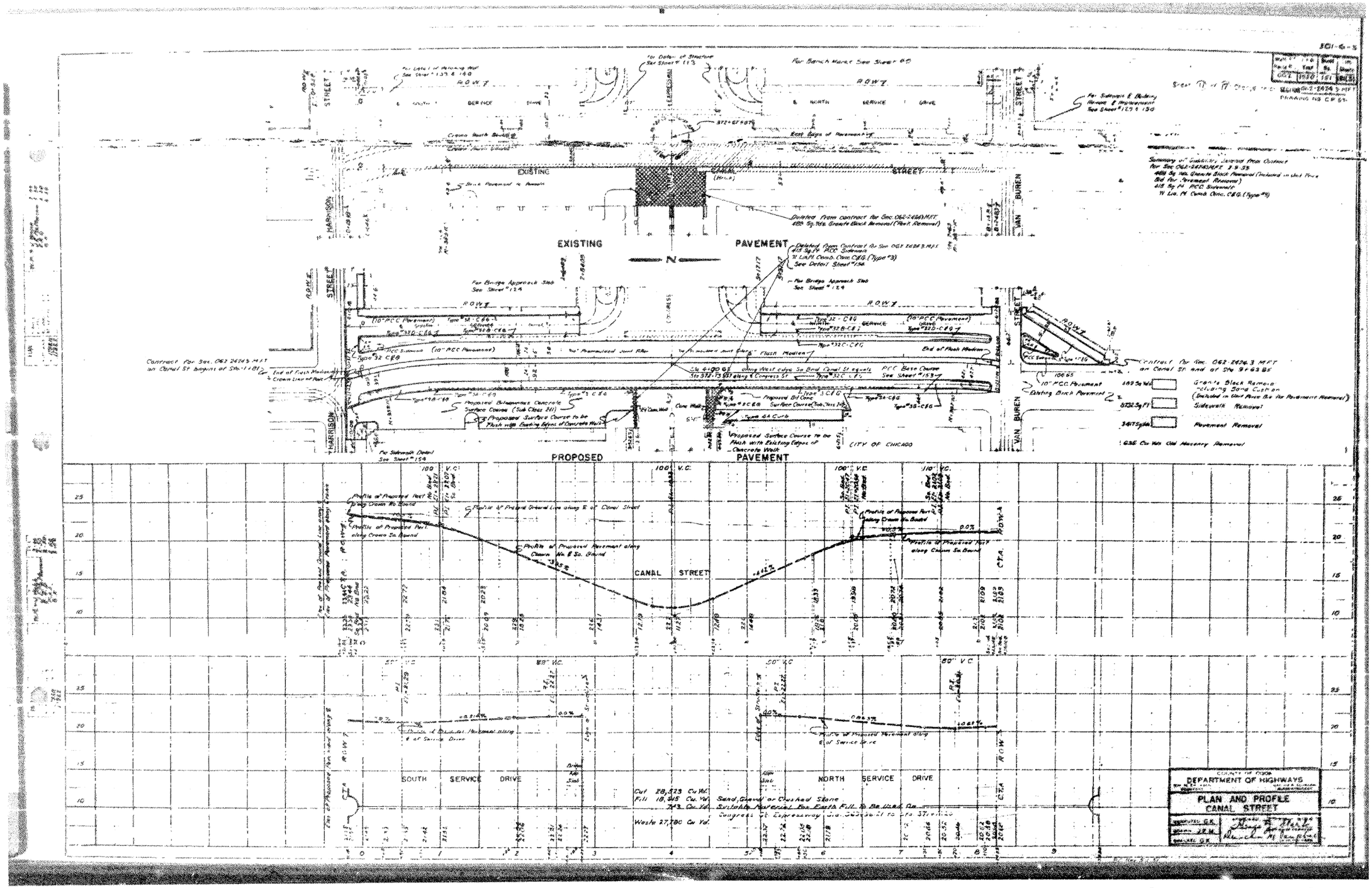
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1618
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

2:04:43 PM

FOR INFORMATION ONLY

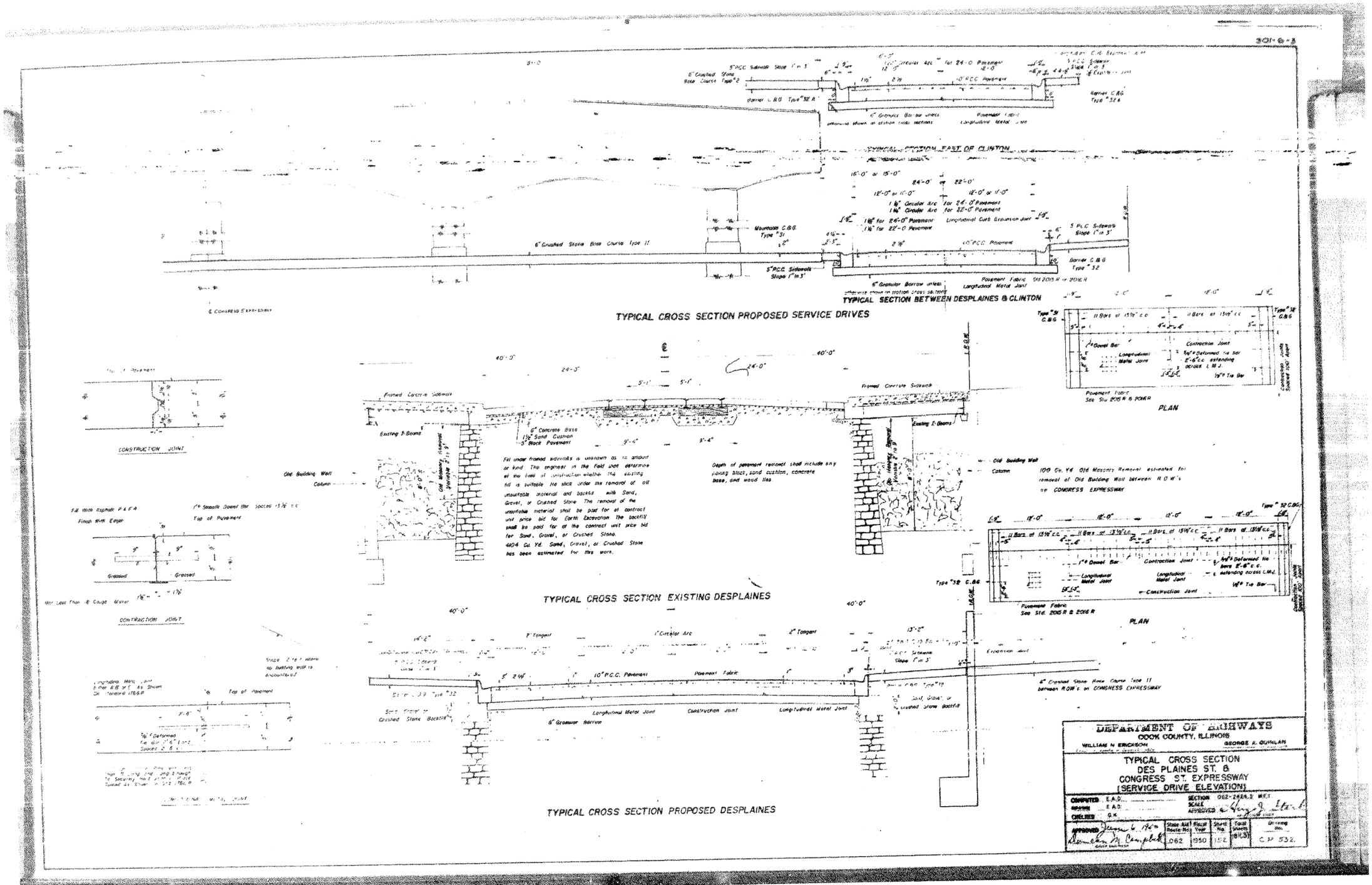


HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	
	CHECKED -	REVISED -			
PLOT SCALE = N.T.S	DRAWN -	REVISED -			
PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -			

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1619
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

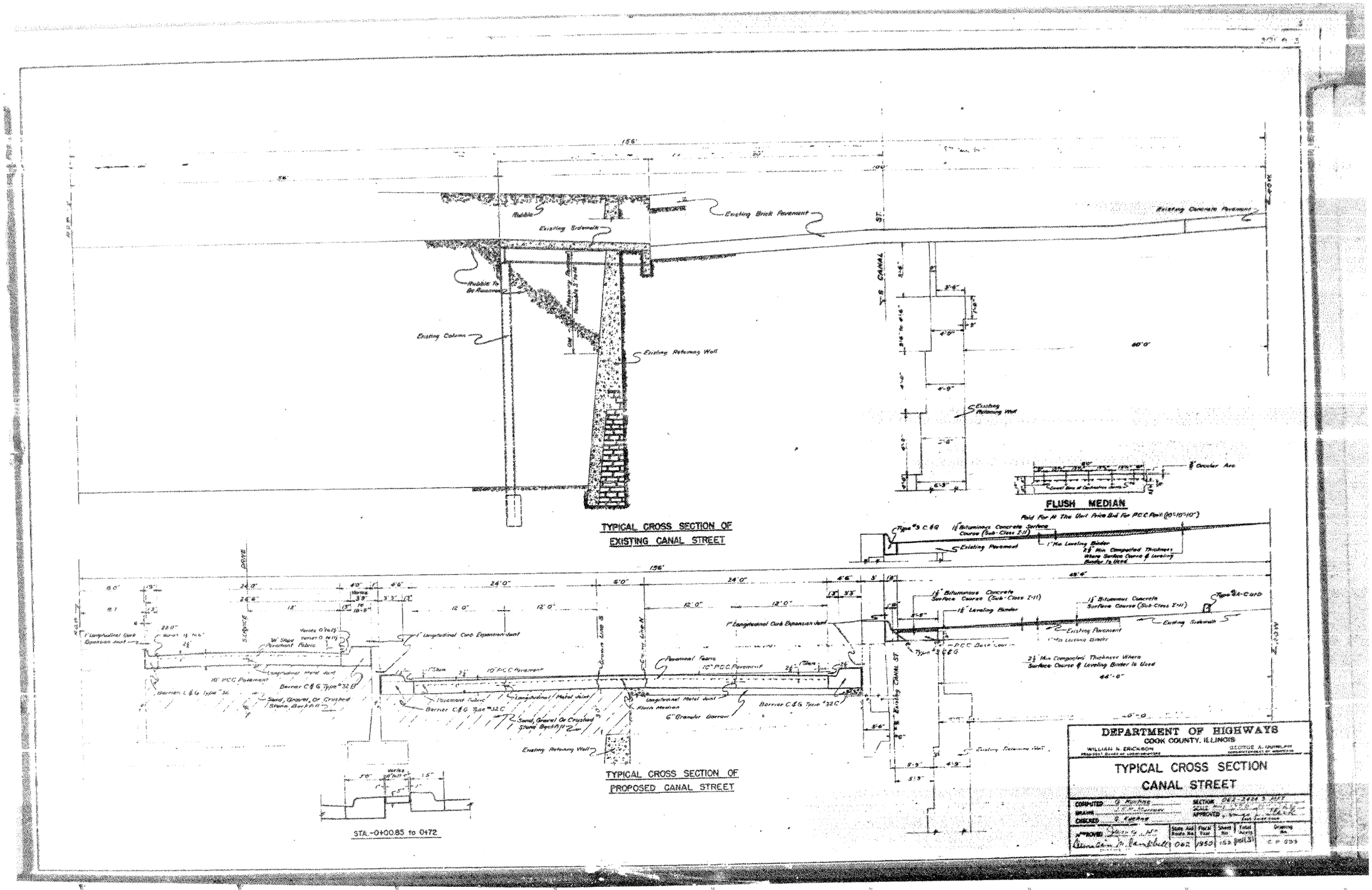


HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1620
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.localbAECOM_D502_NAIDocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\016046I-60X93-SXX-Existing616

2:04:59 PM

FOR INFORMATION ONLY

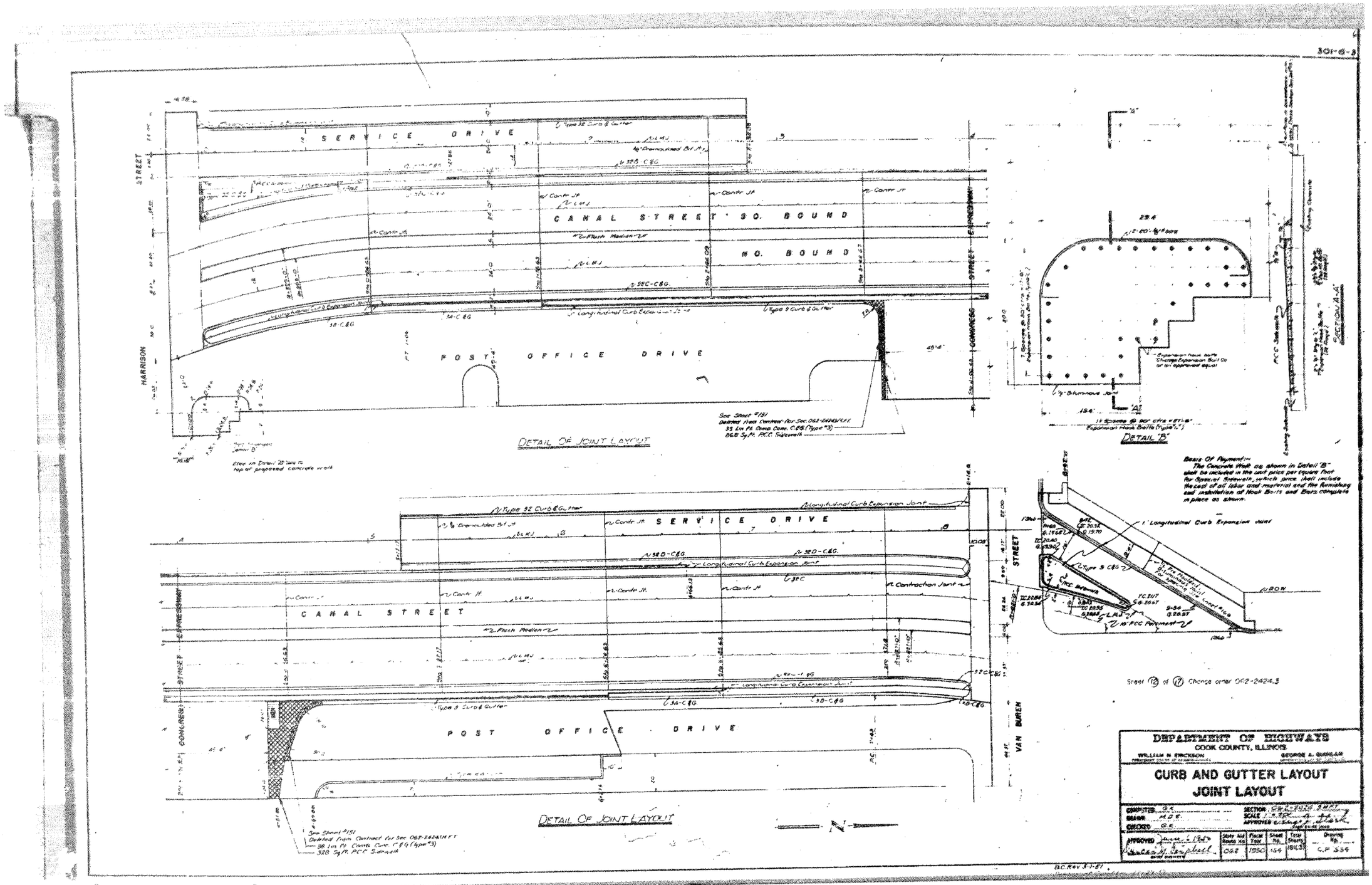


HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1621
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_Structural\Structural\Structure_016-1718\Existing Plans\016046-60X93-SXX-Existing617

2:05:08 PM

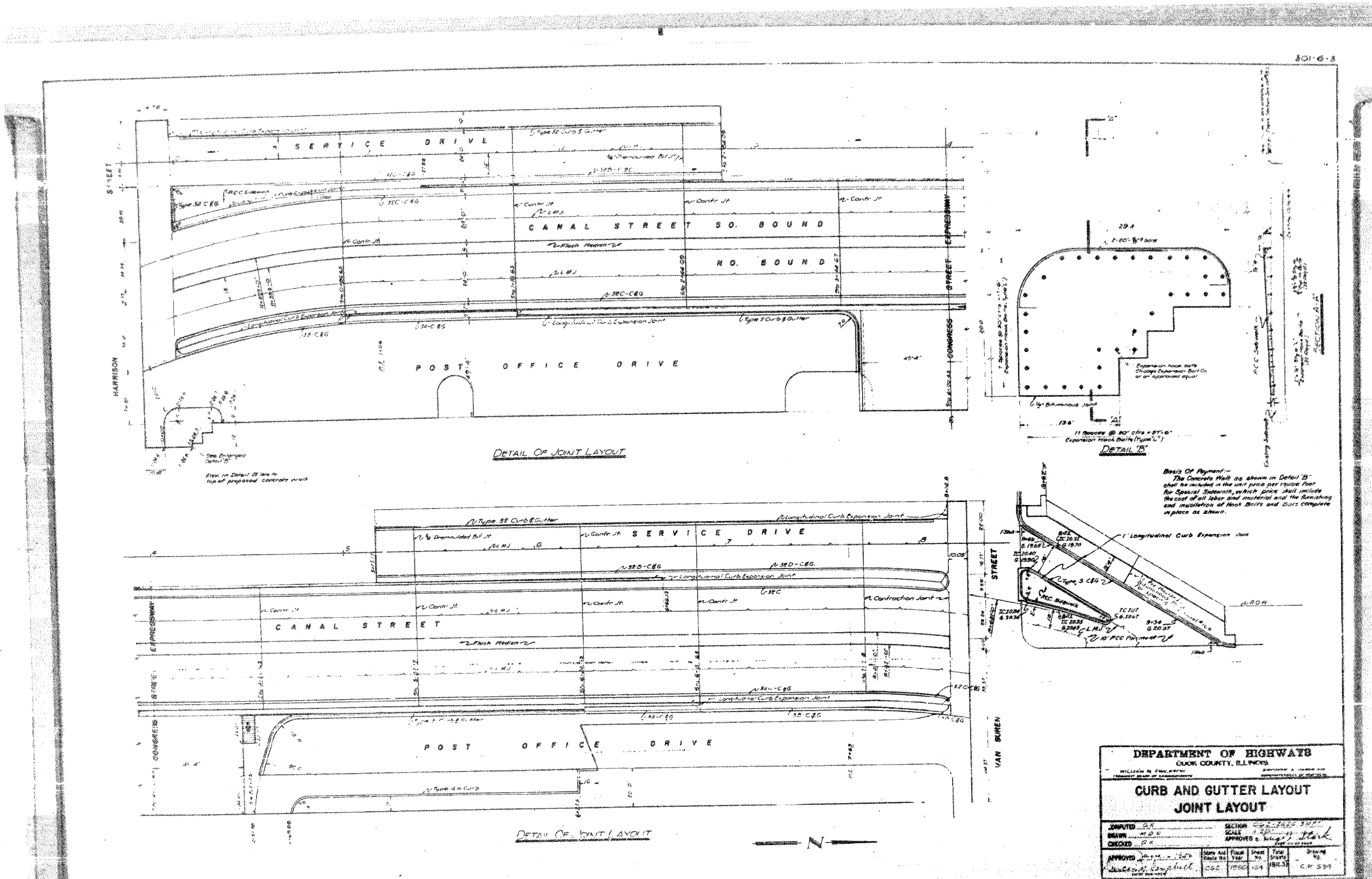
FOR INFORMATION ONLY



HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1622
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -				ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\0160461-60X93-SXX-Existing618
2:05:17 PM

FOR INFORMATION ONLY

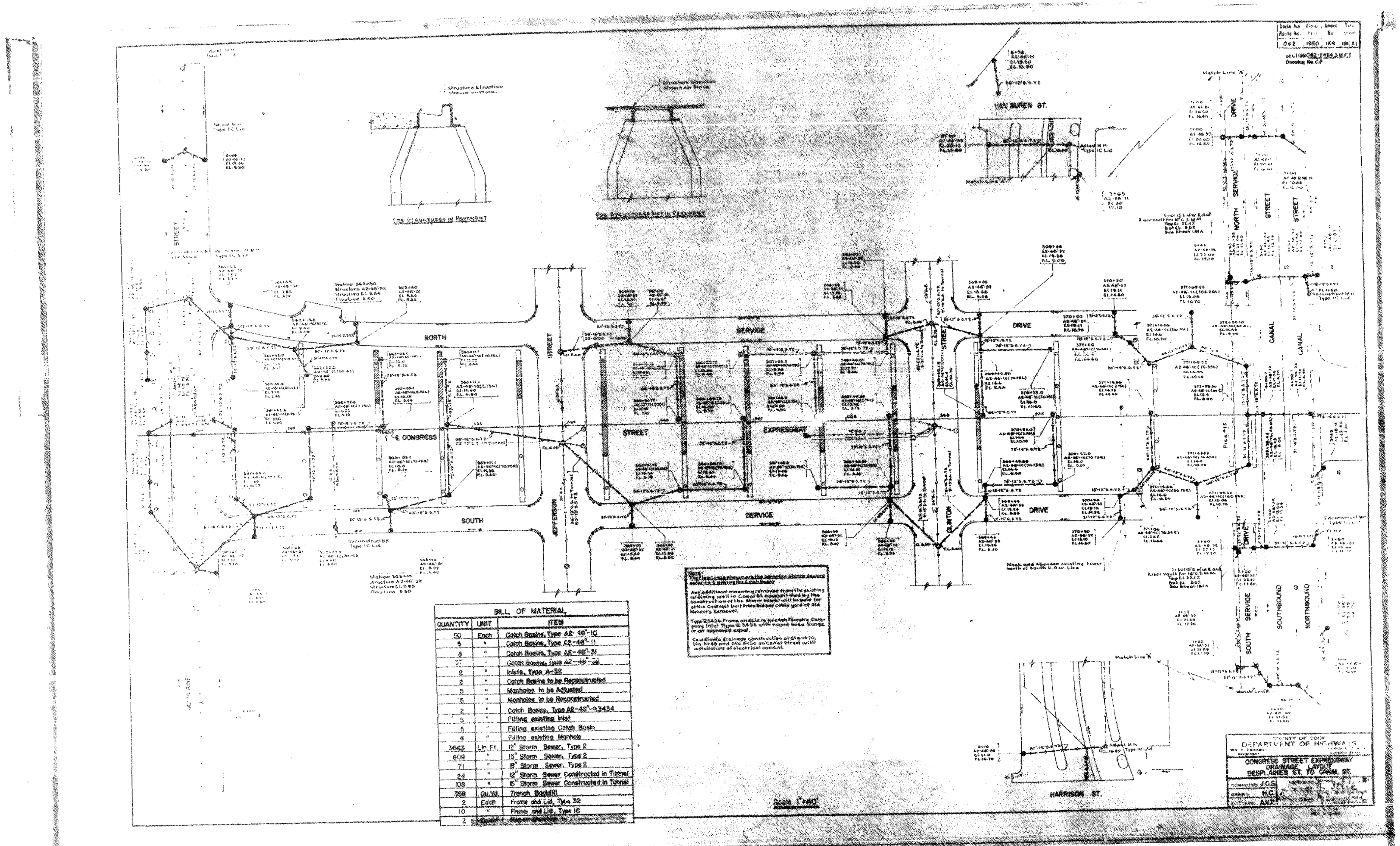


HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE. 90/94/290	SECTION 2014-013R&B-R	COUNTY COOK	TOTAL SHEETS 1972 / SHEET NO. 1623
		CHECKED -	REVISED -						CONTRACT NO. 60X93
	PLOT SCALE = N.T.S	DRAWN -	REVISED -				ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -						

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing619

2:05:24 PM

FOR INFORMATION ONLY



BILL OF MATERIAL

QUANTITY	UNIT	ITEM
50	Each	Catch Basins, Type A2-48"-1C
5	"	Catch Basins, Type A2-48"-11
8	"	Catch Basins, Type A2-48"-31
27	"	Catch Basins, Type A2-48"-32
2	"	Inlets, Type A-32
2	"	Catch Basins to be Reconstructed
5	"	Manholes to be Adjusted
5	"	Manholes to be Reconstructed
2	"	Catch Basins, Type A2-48"-R3434
5	"	Filling existing Inlet
5	"	Filling existing Catch Basin
4	"	Filling existing Manhole
3662	Lin. Ft.	12" Storm Sewer, Type 2
609	"	15" Storm Sewer, Type 2
71	"	18" Storm Sewer, Type 2
24	"	12" Storm Sewer Constructed in Tunnel
108	"	15" Storm Sewer Constructed in Tunnel
769	Cu. Yd.	Trench Backfill
2	Each	Frame and Lid, Type 32
10	"	Frame and Lid, Type 1C
2	[illegible]	[illegible]

Note:
[illegible]

Any additional masonry removed from the existing retaining wall in Canal St. necessitated by the construction of the Storm Sewer will be paid for at the Contract Unit Price bid per cubic yard of Old Masonry Removal.

Type R3434 Frame and Lid is Neenah Foundry Company Inlet Type R 3434 with round base flange or an approved equal.

Coordinate drainage construction at Sta. [illegible], Sta. [illegible] and Sta. [illegible] on Canal Street with installation of electrical conduit.

USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

HBM ENGINEERING GROUP, LLC

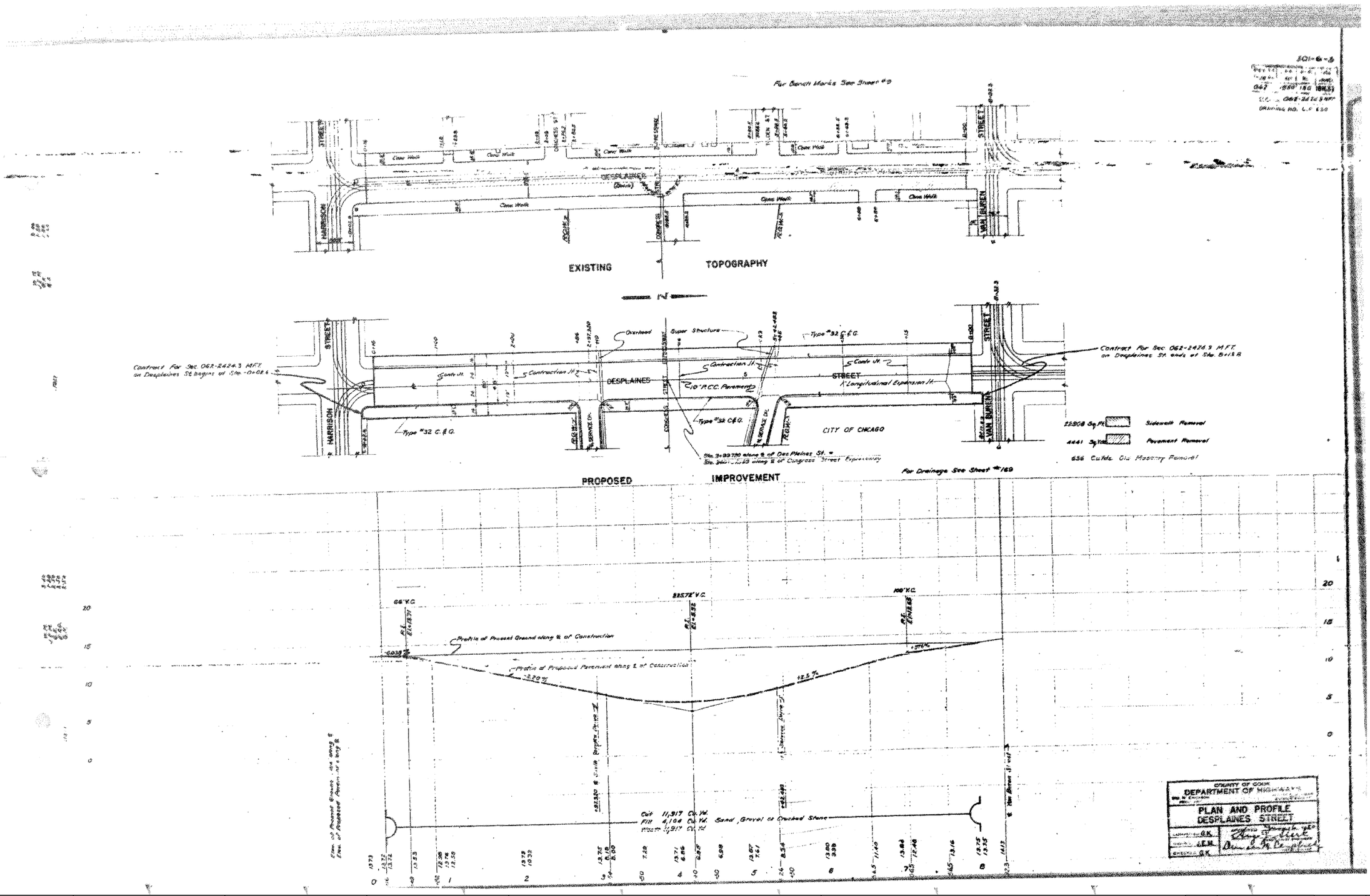
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1624
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\0160461-60X93-SXX-Existing620

2:05:32 PM

FOR INFORMATION ONLY



HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1625
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\016046l-60X93-SXX-Existing621

2:05:40 PM

FOR INFORMATION ONLY

FOR INDEX OF SHEETS AND STANDARDS SEE SHEET NO. 2 AND 3

DESIGN DESIGNATIONS:

WB I-290
CANAL STREET ENTRANCE

31,000(2040) INTERSTATE
4,000(2040) INTERSTATE RAMP

POSTED /DESIGN SPEEDS:

45 /50 MPH
30 /30 MPH

DANNY B. MANOJLOVSKI 062-051232 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

DANNY B. MANOJLOVSKI DATE 3/14/16
LICENSE EXPIRES 11/30/2017
SHEET RANGE

JAMAL I. GRAINAWI 062-058161 CHICAGO, ILLINOIS STATE OF ILLINOIS LICENSED STRUCTURAL ENGINEER

JAMAL I. GRAINAWI DATE 3/14/16
LICENSE EXPIRES 11/30/2016
SHEET RANGE

WILLIAM D. STERMER 062-060936 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

WILLIAM D. STERMER DATE 3/14/16
LICENSE EXPIRES 11/30/2017
SHEET RANGE

MATTHEW S. COOPER 062-056066 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

MATTHEW S. COOPER DATE 3/14/16
LICENSE EXPIRES 11/30/2016
SHEET RANGE

ORANIT P. SANCHEZ 062-062643 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ORANIT P. SANCHEZ DATE 3/14/16
LICENSE EXPIRES 11/30/2019
SHEET RANGE

DISTRICT 1 DESIGN /CONSULTANT SERVICES: BRIAN KUTTAB, P.E. (847)705-4431 SCHAUMBURG, ILLINOIS

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

C.U.A.N.
CHICAGO ULITITY ALERT NETWORK
1-312-744-7000

PROJECT ENGINEER: LISA CHRZASC
PROJECT MANAGER: BRIAN KUTTAB

CONTRACT NO. 60X78

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAI ROUTE 90/94 AT I-290/CONGRESS PARKWAY
(JANE BYRNE INTERCHANGE)
BRIDGE WESTBOUND (EAST OF DES PLAINES) &
I-290 WESTBOUND BRIDGE OVER I-90/94
SECTION 2014-004R&B
BRIDGE AND RETAINING WALL CONSTRUCTION,
ROADWAY RECONSTRUCTION,
AND LIGHTING
PROJECT: ACNHPP-000V(063)
COOK COUNTY
C-91-189-14

△ * 706 + 20 = 726 TOTAL SHEETS
* 726 ÷ 4 = 730

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	706	1
	ILLINOIS	CONTRACT NO. 60X78		

PROJECT LOCATED IN CITY OF CHICAGO

D-91-227-13

LOCATION OF SECTION INDICATED THUS: –

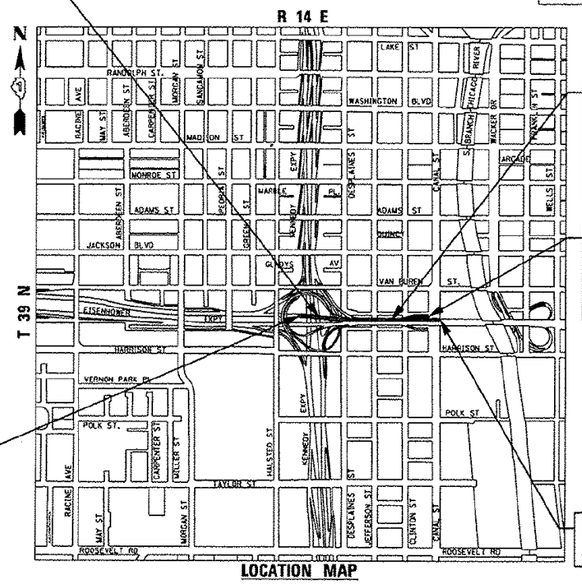
NPDES PERMIT INFORMATION

NPDES Disturbed
Area = 3.75 Acres

Approximate Location of Roadway is :
Longitude 87° 39' 15.85" W
Latitude 41° 52' 32.99" N

WB I-290 OVER I-90/94 BRIDGE
SN 016-1703
STA 5212 + 92.32 TO
STA 5218 + 04.93

END PROJECT LIMIT
STA 5218 + 33.89



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 1,981.90 FT (0.378 MILES)
NET LENGTH = 1,981.90 FT (0.378 MILES)

WB CONGRESS VIADUCT BRIDGE
SN 016-0461
STA 5199 + 90.74 TO
STA 5212 + 92.32

RETAINING WALL 44
SN 016-1831
STA 1199 + 37.20 TO
STA 1200 + 75.95

BEGIN PROJECT LIMIT
STA 5199 + 90.74

AECOM
PARSONS BRINCKERHOFF

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 14 20 16
REGIONAL ENGINEER
May 6 20 16
ENGINEER OF DESIGN AND ENVIRONMENT
May 6 20 16
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

△1 Rev. 6-1-16

PLOT DATE: 3/10/2016

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE = N.T.S	DRAWN -	REVISED -	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1626
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing47
2:05:48 PM

FOR INFORMATION ONLY

CODE NO.	ITEM	UNIT	URBAN 90% FEDERAL 10% STATE TOTAL QUANTITY	CONSTRUCTION CODE ROADWAY 0004 URBAN	HIGHWAY LIGHTING 0021 URBAN	BRIDGE 0011 S.N. 016-1703	BRIDGE 0014 S.N. 016-0461	RETAINING WALL 0044 S.N. 016-1831
50102400	CONCRETE REMOVAL	CU YD	194.8 ⚠1				194.8 ⚠1	
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	3				3	
50157300	PROTECTIVE SHIELD	SQ YD	10,967 ⚠1			3222	7745 ⚠1	
50200100	STRUCTURE EXCAVATION	CU YD	1403			994	201	208
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	720					720
50300225	CONCRETE STRUCTURES	CU YD	1019.8			622	397.8	
50300254	RUBBED FINISH	SQ FT	895			895		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2755.3 ⚠1			877	1878.3 ⚠1	
50300260	BRIDGE DECK GROOVING	SQ YD	8741 ⚠1			2818	5923 ⚠1	
50300285	FORM LINER TEXTURED SURFACE	SQ FT	3022			3022		
50300300	PROTECTIVE COAT	SQ YD	10,373 ⚠1			3483	6890 ⚠1	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1			0.6	0.4	
50500505	STUD SHEAR CONNECTORS	EACH	39456			10344	29112	
50800105	REINFORCEMENT BARS	POUND	217790			217790		

* DENOTES SPECIALTY ITEM　　** DENOTES NON-PARTICIPATING ITEM

⚠1 Rev. 6-1-16

AECOM
303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800

D160X78-sht-500.dgn	DESIGNED - AFC	REVISED -	
USER NAME = PIMSARND	DRAWN - AFC	REVISED -	
PLOT SCALE = 2.0000 '/ in.	CHECKED - DBM	REVISED -	
PLOT DATE = 3/21/2016	DATE - 3/18/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 4 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	706	9

CONTRACT NO. 60X78
ILLINOIS FED. AID PROJECT

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing48

HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1627

CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT

2:05:57 PM

FOR INFORMATION ONLY

CODE NO.	ITEM	UNIT	URBAN 90% FEDERAL 10% STATE TOTAL QUANTITY	CONSTRUCTION CODE ROADWAY 0004 URBAN	HIGHWAY LIGHTING 0021 URBAN	BRIDGE 0011 S.N. 016-1703	BRIDGE 0014 S.N. 016-0461	RETAINING WALL 0044 S.N. 016-1831
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	843,895 (Rev. 1)	255		332920	510,720 (Rev. 1)	
50800515	BAR SPLICERS	EACH	6306			1935	4371	
50800530	MECHANICAL SPLICERS	EACH	363			363		
51100100	SLOPE WALL 4 INCH	SQ YD	164			164		
51500100	NAME PLATES	EACH	1			1		
* 51603000	DRILLED SHAFT IN SOIL	CU YD	1076			1076		
* 51604000	DRILLED SHAFT IN ROCK	CU YD	31			31		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	127			52	75	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	89				89	
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	82			16	66	
52100030	ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	14				14	
52100510	ANCHOR BOLTS, 3/4"	EACH	114				114	
52100520	ANCHOR BOLTS, 1"	EACH	320			80	240	
52100530	ANCHOR BOLTS, 1 1/4"	EACH	34			16	18	

* DENOTES SPECIALTY ITEM   * * DENOTES NON-PARTICIPATING ITEM

Rev. 6-1-16 (Rev. 1)

AECOM
303 EAST WACKER DRIVE, SUITE 1400, CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D160X78-sht-500.dgn	DESIGNED - AFC	REVISED -	
USER NAME = PIMSARND	DRAWN - AFC	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - DBM	REVISED -	
PLOT DATE = 3/21/2016	DATE - 3/18/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 5 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	706	10

CONTRACT NO. 60X78
ILLINOIS FED. AID PROJECT

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing49

HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1628

CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT

2:06:05 PM

FOR INFORMATION ONLY

	CODE NO.	ITEM	UNIT	URBAN 90% FEDERAL 10% STATE TOTAL QUANTITY	CONSTRUCTION CODE: ROADWAY 0004 URBAN	HIGHWAY LIGHTING 0021 URBAN	BRIDGE 0011 S.N. 016-1703	BRIDGE 0014 S.N. 016-0461	RETAINING WALL 0044 S.N. 016-1831
*	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	900		900			
	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	158				158	
	Z0001905	STRUCTURAL STEEL REPAIR	POUND	18,774 △1				18,774 △1	
	Z0004002	BOLLARDS	EACH	9	9				
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	150	150				
	Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	613				613	
	Z0007126	HANDRAIL REMOVAL	FOOT	62.5				62.5	
**	Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	1		1			
	Z0012146	BRIDGE DECK SCARIFICATION 2 3/4"	SQ YD	613				613	
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	1574 △1				1574 △1	
	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	48				36	12
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1				
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2				2	
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	19				19	

14

* DENOTES SPECIALTY ITEM ** DENOTES NON-PARTICIPATING ITEM

△1 Rev. 6-1-16

AECOM — 303 EAST WACKER DRIVE, SUITE 1400, CHICAGO, IL 60601-5276, PHONE: (312) 373-7700 FAX: (312) 373-6800

FILE NAME: D16BX78-sht-SQO.dgn | USER NAME = PIMSARNO | PLOT SCALE = 2.0000 '/ in. | PLOT DATE = 3/21/2016

DESIGNED - AFC | DRAWN - AFC | CHECKED - DBM | DATE - 3/18/2016

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 14 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	706	19

CONTRACT NO. 60X78

ILLINOIS FED. AID PROJECT

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing50

HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa | PLOT SCALE = N.T.S | PLOT DATE = 7/26/2018

DESIGNED - | CHECKED - | DRAWN - | CHECKED - MI, MAI

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

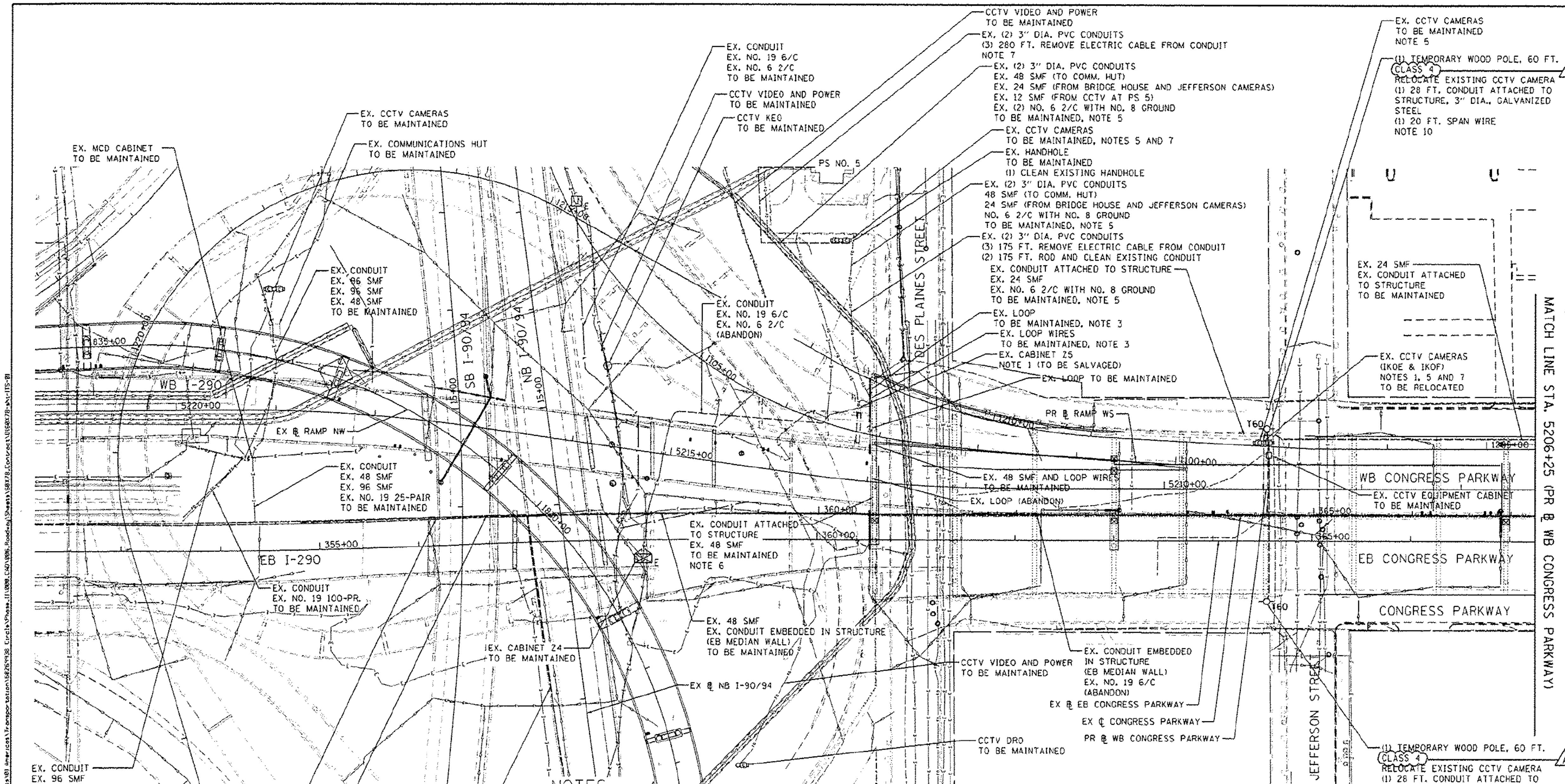
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1629

CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

2:06:13 PM

FOR INFORMATION ONLY



NOTES:

1. REMOVE EXISTING SURVEILLANCE EQUIPMENT (SALVAGE) WHERE NOTED AND TURN OVER TO IDOT DISTRICT 1. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT" PAY ITEM.
2. ALL EXISTING EQUIPMENT ATTACHED TO OR PART OF AN EXISTING STRUCTURE TO BE DEMOLISHED SHALL BE REMOVED AS PART OF THE STRUCTURAL REMOVAL PAY ITEMS, UNLESS OTHERWISE NOTED.
3. EXISTING I-290 WB RAMP LOOPS, CONDUITS AND CABLES ARE TO BE PROTECTED AND MAINTAINED FOR RECONNECTION.
4. MAINTAIN THE EXISTING IDOT ITS SYSTEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
5. MAINTAIN EXISTING CCTV CAMERA POWER AND COMMUNICATIONS UNTIL TEMPORARY AND NEW INFRASTRUCTURE CAN BE INSTALLED. POWER AND COMMUNICATIONS FOR THE 100-FT POLE MOUNTED CCTV CAMERAS NEXT TO PS 5 ARE TO BE MAINTAINED AND WILL NOT BE REMOVED OR REPLACED.
6. THE 48 SMFO CABLE IN THE EB MEDIAN WALL IS TO BE ABANDONED WHEN THE REPLACEMENT 96 SMFO CABLE IN THE WB MEDIAN WALL BETWEEN PS 5 AND THE COMM. HUT IS INSTALLED.
7. THE 24 SMF CABLE, AND THE ELECTRIC CABLE NO. 6 2/C AND NO. 8 GOING TO THE EXISTING CCTV CAMERAS, AND THE EXISTING 48 SMF CABLE ARE TO BE MAINTAINED UNTIL NEW CABLES ARE TO BE INSTALLED. OTHER CABLES SHARING THE CONDUITS ARE TO REMAIN AND TO BE MAINTAINED. THESE ARE THE 12 SMF CABLE AND THE ELECTRIC CABLE NO. 6 2/C AND NO. 8 GOING TO THE CAMERA AT PS 5.
8. SEE THE SPECIAL PROVISION FOR CONTINUATION OF EX. OFF-SITE CAMERAS UNDER "BUDGETARY ALLOWANCE FOR TIME-LAPSE CAMERA".
9. LOCATIONS OF EX. IDOT ELECTRICAL/ITS EQUIPMENT SHOWN ON THIS SHEET ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
10. RELOCATE CAMERA IKOE TO THE TEMPORARY WOOD POLE ON CONGRESS PARKWAY. RELOCATE CAMERA IKOF TO THE TEMPORARY WOOD POLE ON TILDEN STREET. THIS WORK WILL BE COVERED UNDER THE "RELOCATE EXISTING CCTV CAMERA" PAY ITEM. REFER TO IDOT STANDARD DRAWING BE801 FOR AERIAL CABLE INSTALLATION.

N

0 50 100
SCALE: 1"=50'

ITS-01

AECOM

DESIGNED - GWS	REVISED - A 05/23/2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING/MAINTAINING ITS PLAN WB I-290 OVER I-90/94 AND WB CONGRESS PARKWAY
DRAWN - CAM	REVISED -		
CHECKED - JDG	REVISED -		
DATE - 3/18/2016	REVISED -		SCALE: 1"=50' SHEET 1 OF 20 SHEETS STA. 5206+25 TO STA. 5221+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004R&B	COOK	706	166
		CONTRACT NO. 60X78		

HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

EXISTING RECORD DRAWINGS

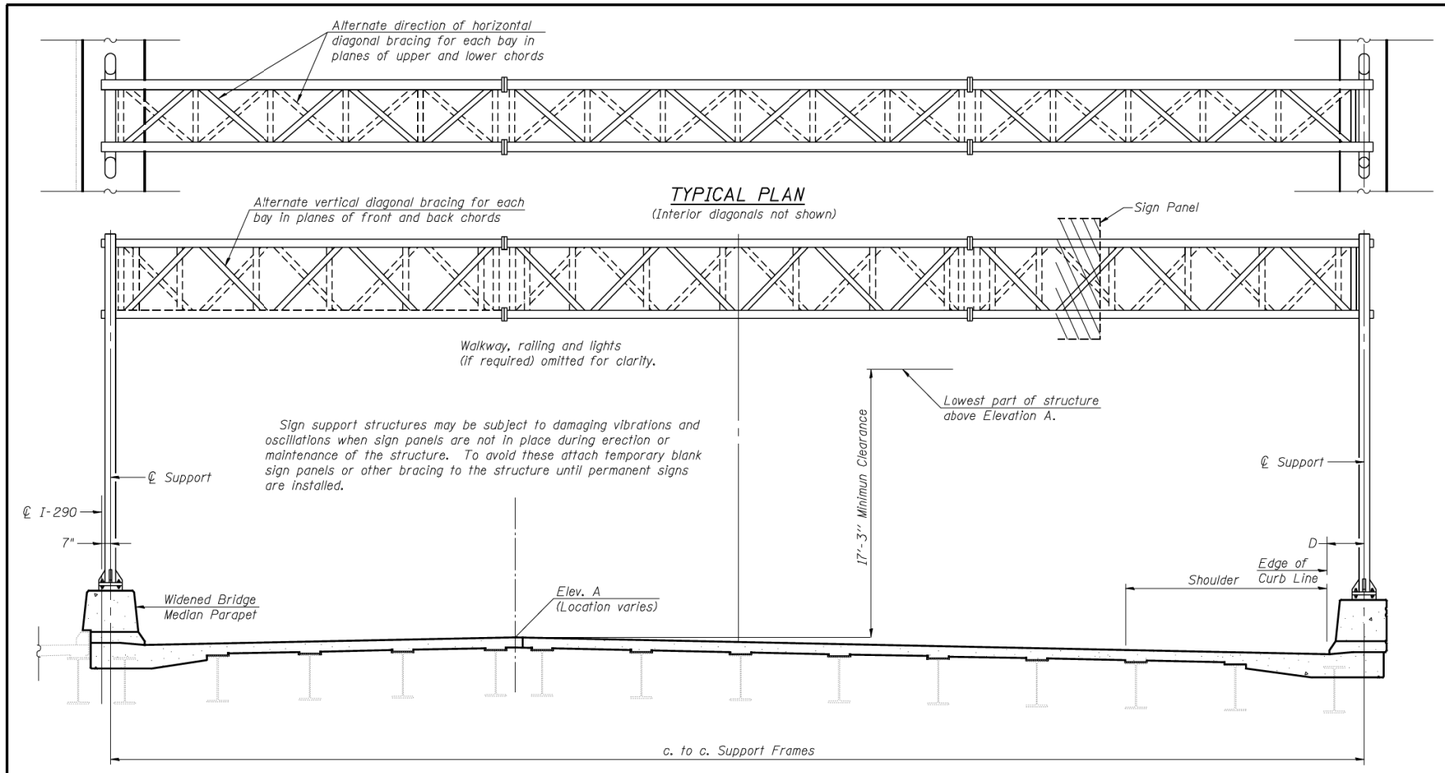
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1630
		CONTRACT NO. 60X93		

ILLINOIS FED. AID PROJECT

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing51

2:06:20 PM

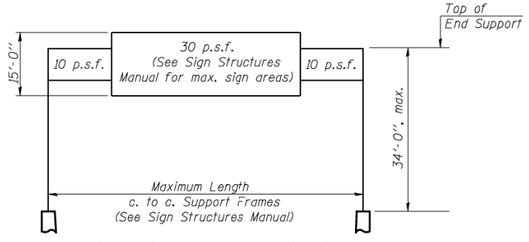
FOR INFORMATION ONLY



TYPICAL PLAN
(Interior diagonals not shown)

TYPICAL ELEVATION
(Looking West at Face of Signs)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D at Left Support	Dim. D at Right Support	Height of Tallest Sign	Total Sign Area
150161290L000.0-002	5206+12.43 (Interim Location)	III-A	81'-1"	612.41	2'-2½"	2'-3"	15'-0"	672 SQ FT
	5209+18.43 (Final Location**)	III-A	81'-1"	612.83	2'-2½"	2'-3"	15'-0"	693 SQ FT

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

** Final location and other miscellaneous data provided for information only. Sign structure to be relocated in future contract (by others).

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching locx nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Anchor Rods, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

STATE OF ILLINOIS
JAMAL I. GRAINAWI
081-005161
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Signed Jamal Grainawi
JAMAL I. GRAINAWI, S.E. Il. Lic. No. 081-005161
Expires 11-30-2016.
Date 3/18/2016

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	82

PARSONS BRINCKERHOFF	USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -
		CHECKED - AH	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - PJL	REVISED -
	PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS
SHEET NO. OH-1 OF OH-8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	147
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

60X78_SignStructure_Sheet1.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -

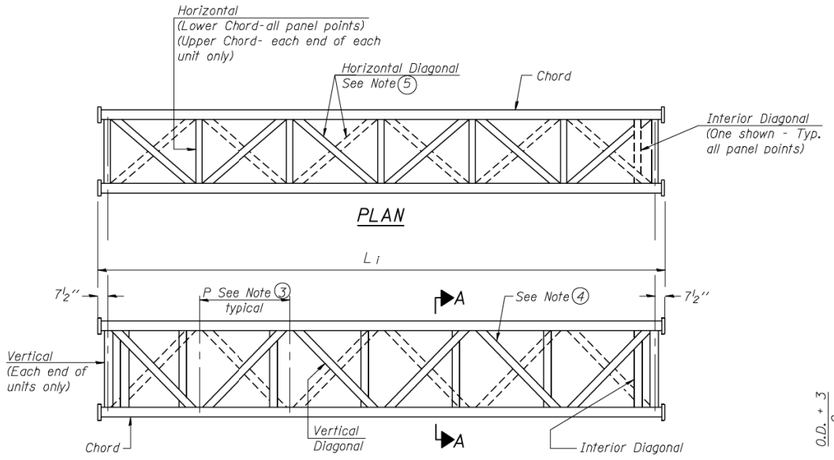
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

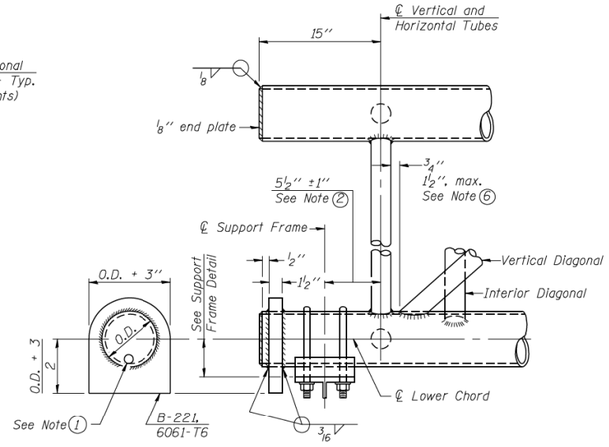
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1631
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing52
2:06:29 PM

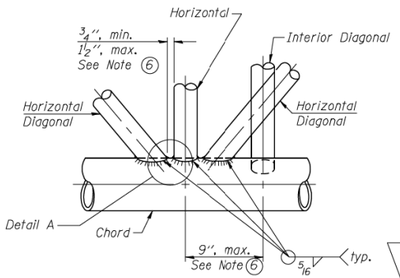
FOR INFORMATION ONLY



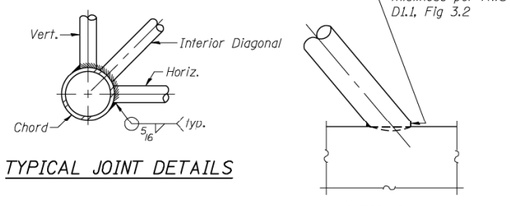
ELEVATION
TYPICAL INTERIOR UNIT
Even number of panels/interior unit required.



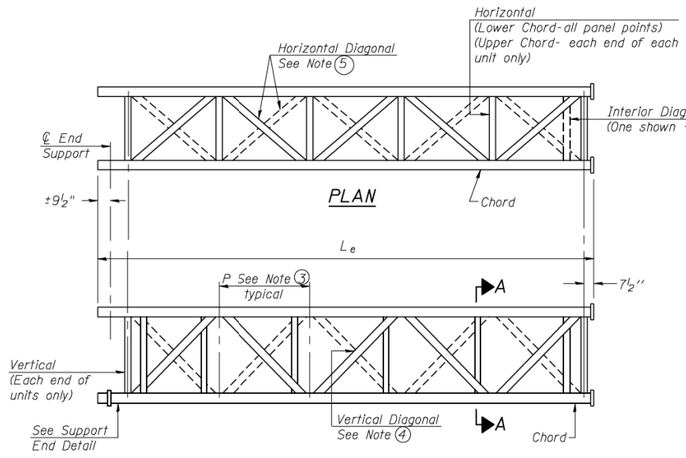
SUPPORT END DETAIL FOR EXTERIOR UNIT



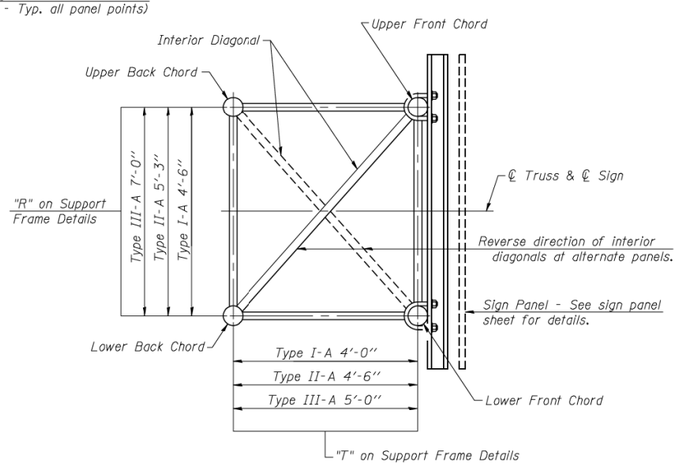
TYPICAL JOINT DETAILS



DETAIL A



ELEVATION
TYPICAL EXTERIOR UNIT
Even or odd number of panels/exterior units allowed.



SECTION A-A

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

60X78_SignStructure_Sheet2.dgn

PARSONS BRINCKERHOFF					
	USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I–A, II–A AND III–A
		CHECKED - AH	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - PJL	REVISED -		
	PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -		SHEET NO. OH-2 OF OH-8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	148
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

HBM ENGINEERING GROUP, LLC					
	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1632
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

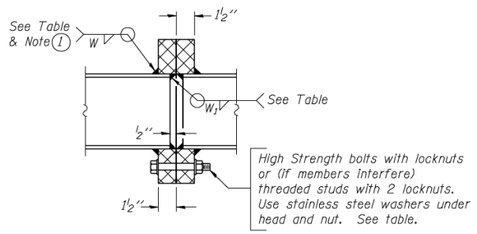
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NAIDocuments\01 AmericasTransportation\60269938 CircletPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing53
2:06:37 PM

FOR INFORMATION ONLY

TRUSS UNIT TABLE

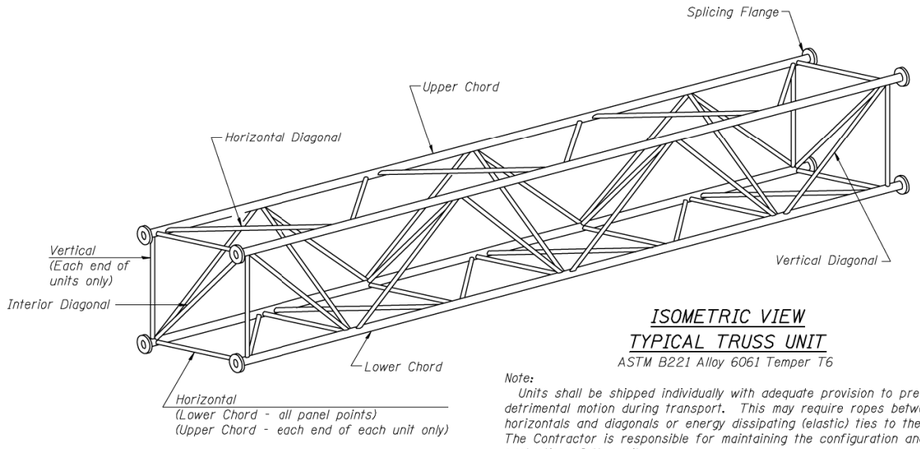
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L_e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_I)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W_1		
IS0161290R000.0-002	5209+12.43*	III-A	5	26'-5 1/2"	4'-11"	1	6	30'-9"	4'-11"	7"	5/16"	3 1/4"	5/16"	1 1/2"	6	1"	7/16"	5/16"	11 1/2"	15"

* Station for interim location shown. Sign structure to be relocated in future contract (by others).



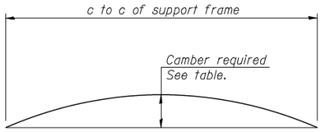
SECTION B-B

(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



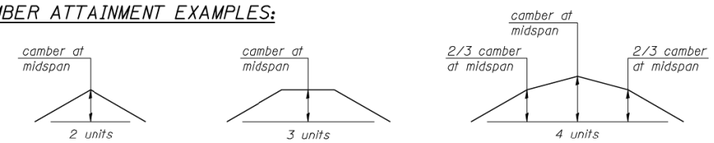
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

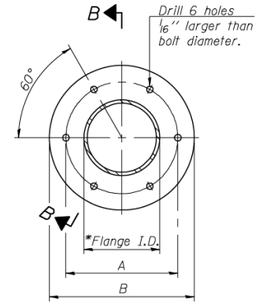


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

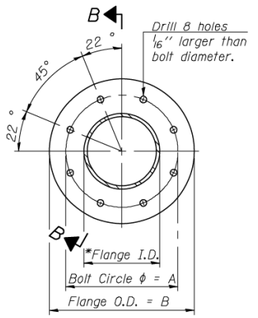
CAMBER ATTAINMENT EXAMPLES:



Cambsr shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

60X78_SignStructure_Sheet3.dgn

PARSONS BRINCKERHOFF	USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -
		CHECKED - AH	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - PJL	REVISED -
	PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A
SHEET NO. OH-3 OF OH-8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	149
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

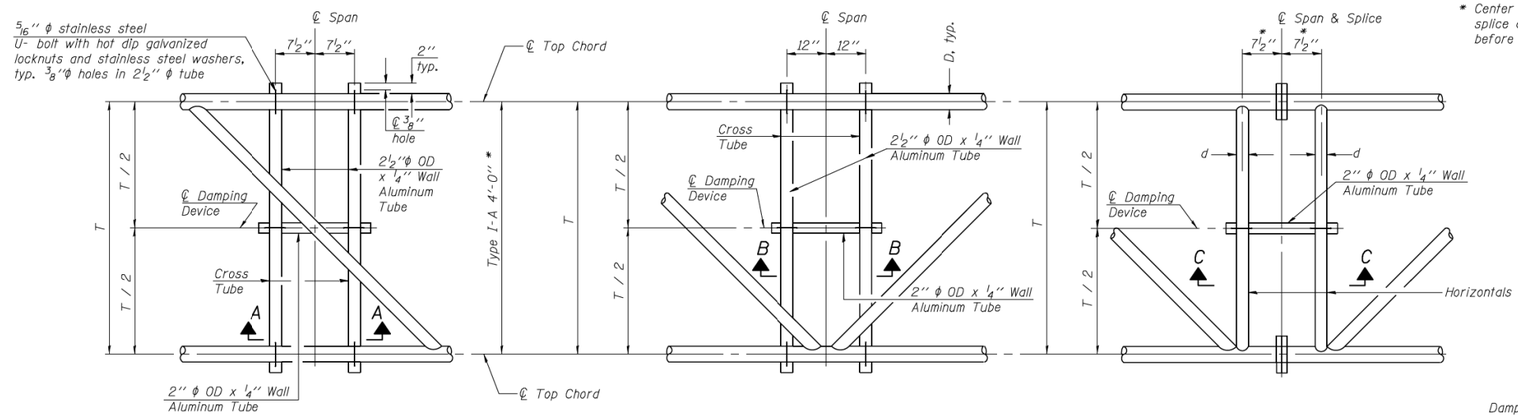
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

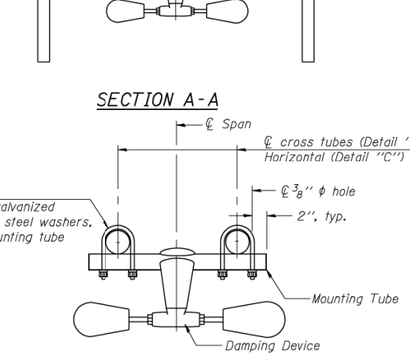
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1633
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing54
2:06:45 PM

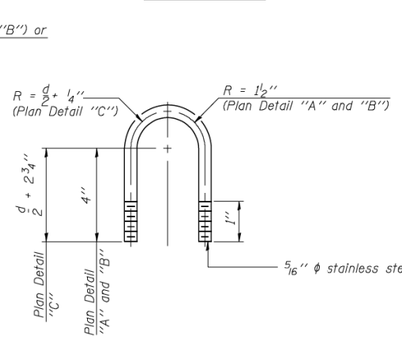
FOR INFORMATION ONLY



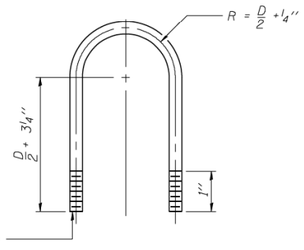
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.



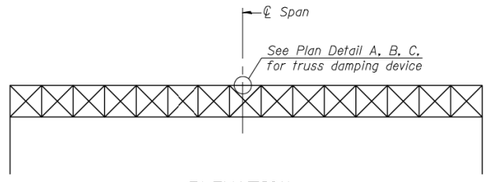
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

NOTES

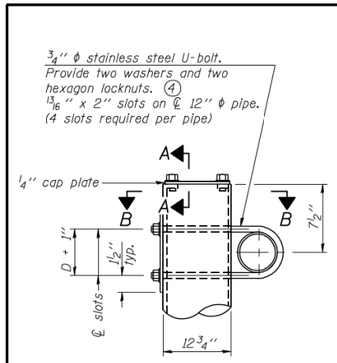
Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure Span Type III-A.

Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure Span Type III-A.

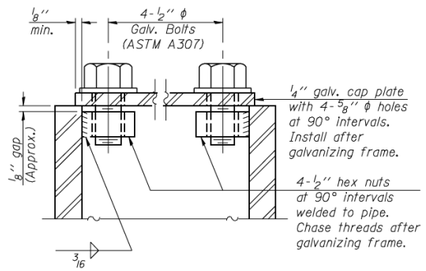
PARSONS BRINCKERHOFF	USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURE DAMPING DEVICE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - AH	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	150
	PLOT SCALE = N.T.S.	DRAWN - PJL	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -		SHEET NO. OH-4 OF OH-8 SHEETS			ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1634
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

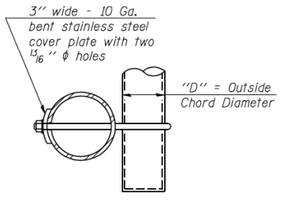


DETAIL A

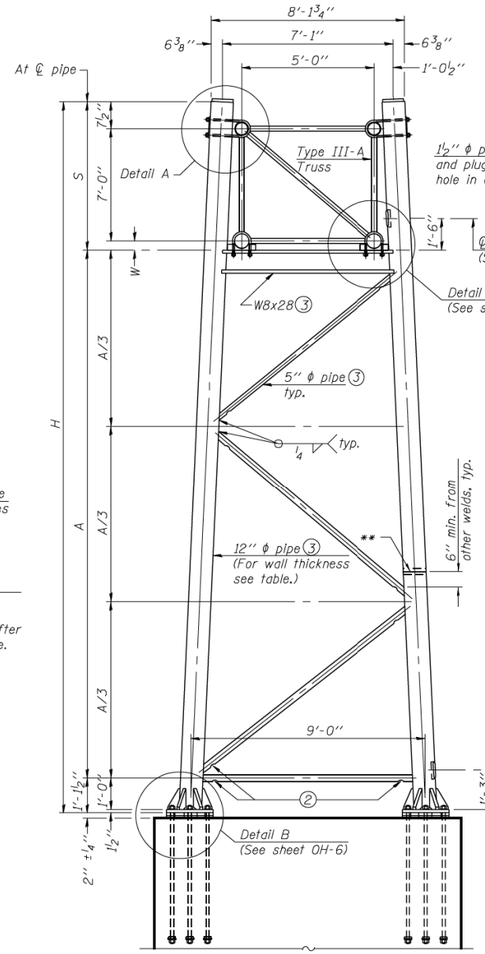


SECTION A-A

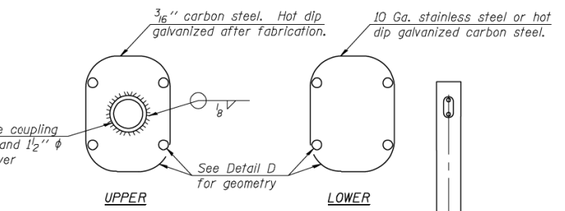
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



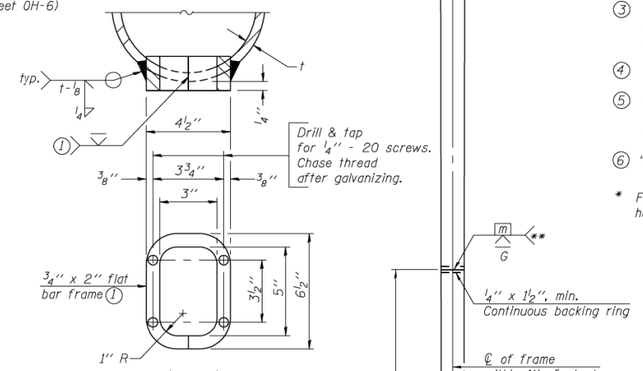
SECTION B-B



SIDE ELEVATION

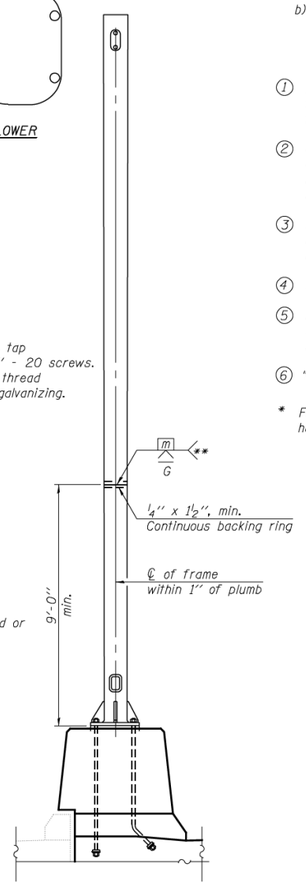


HANDHOLE COVERS



Provide 6½'' x 4½'' cover.
Provide 4-5/16'' ϕ holes in cover for ¼''-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D



END ELEVATION

Support Design Loads: See sheet OH-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

(1) In lieu of fabricated handhole frame as shown, may cut from 2'' plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.

(2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.

(3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See sheet OH-1.

(4) See General Notes for fasteners.

(5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

(6) "H" based on 15'-0'' or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Dimensions		
Truss Chord Nominal Dia.	W	S
7''	4 3/4''	8'-0 1/4''
8½''	5½''	8'-1''
9''	5 3/4''	8'-1 1/4''

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
IS0161290L000.0-002	5206+12.43	X		0.33''	30.35'	21.20'
	(Interim***)		X	0.33''	31.00'	21.85'

*** Station for interim location shown. Sign structure to be relocated in future contract (by others).

TRUSS SUPPORT DETAILS

(12'' ϕ Pipe-Type III-A Truss

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

60X78_SignStructure_Sheet5.dgn

PARSONS BRINCKERHOFF	USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -
		CHECKED - AH	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - PJL	REVISED -
	PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – SUPPORT FRAME FOR TYPE III–A ALUMINUM TRUSS

SHEET NO. OH-5 OF OH-8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	151
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NAIDocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing56

2:07:00 PM

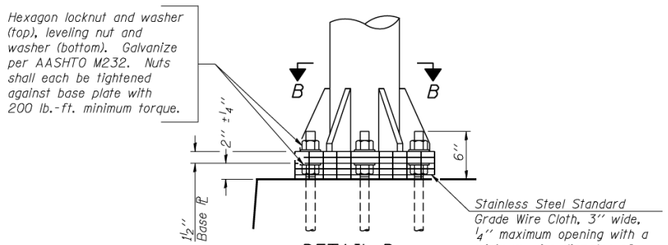
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

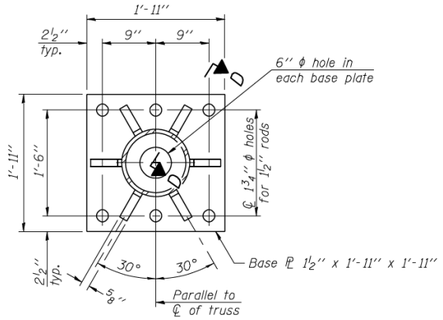
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1635
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

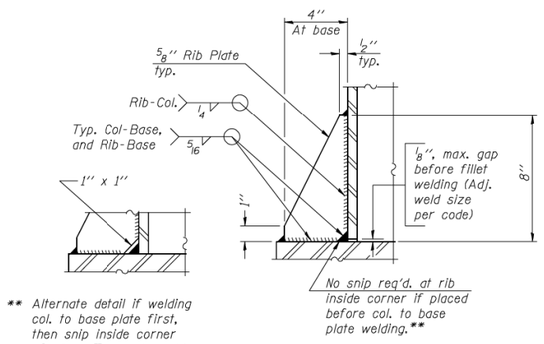


DETAIL B

Ribs shall be cut to fit slope of pipe.



SECTION B-B

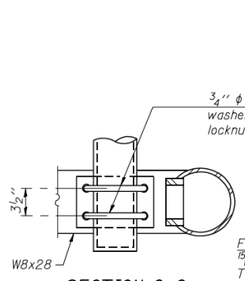


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4'' from snip.

SECTION D-D

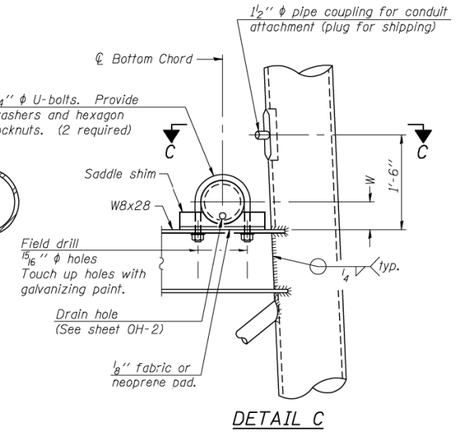
Note:

For Anchor Rod Details and Positioning Plates, see structural plans sheet S2-57A of S2-145

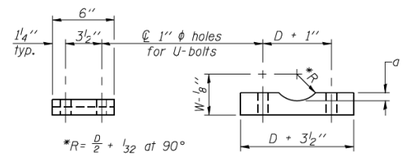


SECTION C-C

(Handhole cover not shown)



DETAIL C



*R= D/2 + 1/32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

Truss Chord Nominal Dia.	a
7''	1''
8 1/2''	1 1/4''
9''	1 3/8''

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

TYPE III-A TRUSS
12'' ϕ PIPE SUPPORT FRAME DETAILS

60X78_SignStructure_Sheet6.dgn

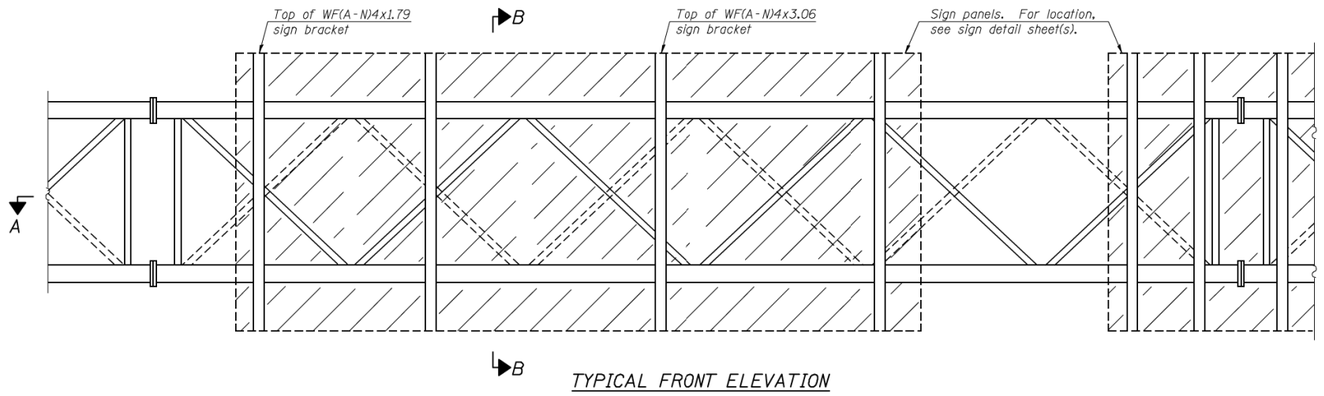
PARSONS BRINCKERHOFF	USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - AH	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	152
	PLOT SCALE = N.T.S.	DRAWN - PJL	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -		SHEET NO. OH-6 OF OH-8 SHEETS			ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1636
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -					ILLINOIS FED. AID PROJECT		

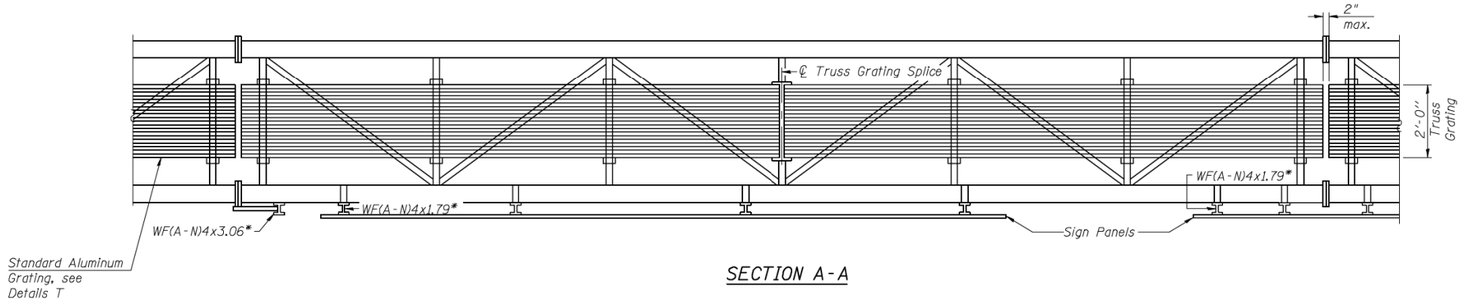
FILE NAME: pw:\\617479-PWINT.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing57

2:07:07 PM

FOR INFORMATION ONLY



TYPICAL FRONT ELEVATION



SECTION A-A

Notes:
For Details T, Section B-B and Grating Splice Details see sheet OH-8.
Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure Span Type III-A".
Truss Grating width dimensions are nominal and may vary ±½" based on avaliable standard widths.

60X78_SignStructure_Sheet7.dgn

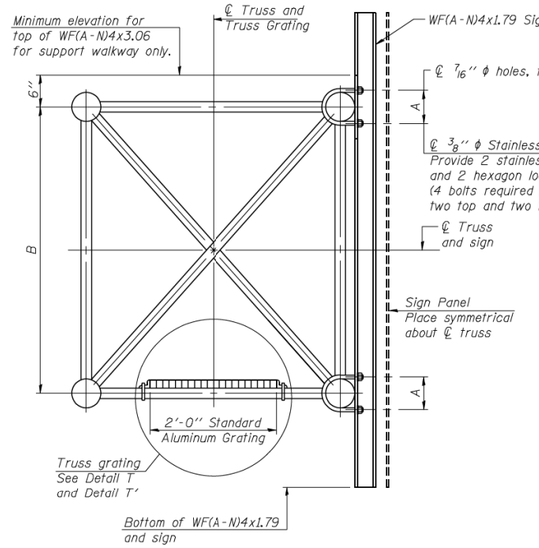
PARSONS BRINCKERHOFF	USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS GRATING DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JIG	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	152A
	PLOT SCALE = N.T.S.	DRAWN - BDP	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -		SHEET NO. OH-7 OF OH-8 SHEETS			ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1637
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS FED. AID PROJECT		

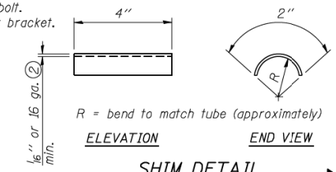
FILE NAME: pw:\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing58

2:07:15 PM

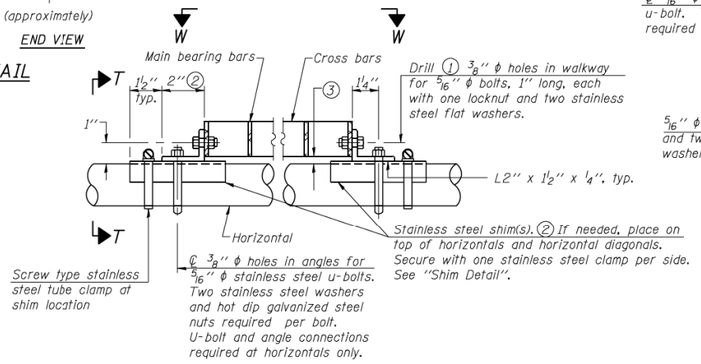
FOR INFORMATION ONLY



Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

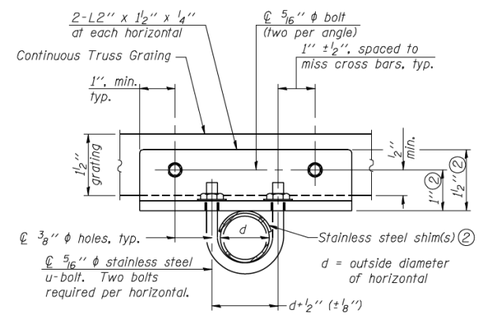


SHIM DETAIL

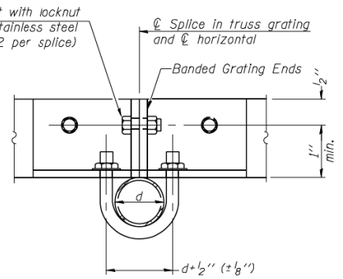


DETAIL T

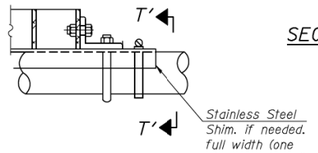
(Continuous Truss grating)



SECTION T-T



SECTION T'-T'

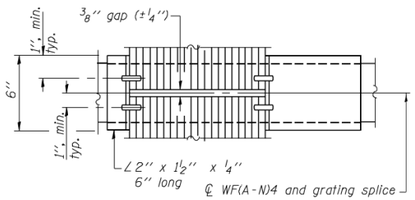


DETAIL T'

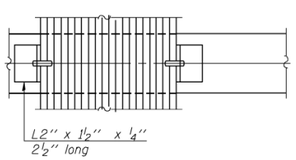
(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

SECTION B-B



(AT WALKWAY GRATING SPLICE)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.^{3} per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	B
IS0161290L000.0-002	5206+12.43 (Interim*)	8"	7'-0"

* Station for interim location shown. Sign structure to be relocated in future contract (by others).

1. Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
2. Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
3. Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.

60X78_SignStructure_Sheet8.dgn

PARSONS BRINCKERHOFF				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS GRATING DETAILS					
USER NAME = lopezgonzalez	DESIGNED - PJL	REVISED -			SHEET NO. OH-8 OF OH-8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - AIG	REVISED -				90/94/290	2014-004 R&B (WB)	COOK	706	152B
PLOT SCALE = N.T.S.	DRAWN - BDP	REVISED -						CONTRACT NO. 60X78		
PLOT DATE = 4/27/2016	CHECKED - JIG	REVISED -						ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS					
USER NAME = ahmad.issa	DESIGNED -	REVISED -				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	REVISED -				90/94/290	2014-013R&B-R	COOK	1972	1638
PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93		
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -						ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\I617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 AmericasTransportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing59

2:07:22 PM

FOR INFORMATION ONLY

Bench Mark: Square cut at center of door entrance to 707 W. Harrison St; South side of Harrison St. ±90' west of west line of Des Plaines. Elevation 597.47. A + cut in the SE anchor bolt at the 11th street light N. of Roosevelt on the W. side of Halsted. Elev. = 594.06.

Existing Structure: S.N. 016-0461 was originally built in 1952 as F.A. Route Number 131. Section 062-2424.4. The existing structure consists of 16 main spans of multi-unit steel continuous multi-beam superstructures with additional entrance and exit ramp spans along Spans 12 and 13. The existing structure has an overall length of approximately 1301'-4" and an average out-to-out width of approximately 162'-0" for the main spans and 25'-0" for the ramp spans. The substructure units are founded on drilled shafts and consist of 17 multi column piers. The existing bridge is to be rehabilitated through a combination of partial removal and replacement, repairs, and partial infill of ramp spans.

Traffic Control: Two lanes of mainline traffic will be maintained utilizing stage construction. Canal Street Entrance Ramp will be closed during stage construction. Ramp traffic will be maintained utilizing stage construction.

Salvage: None

(1) Line perpendicular to ℄ I-290

(2) Varies 1.4% to 3.6%

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications
7th Edition (Spans 1-3)
2002 AASHTO Standard Specifications
for Highway Bridges (Spans 4-16)

DESIGN STRESSES

FIELD UNITS (New Construction)

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

FIELD UNITS (Exist. Construction)

f'c = 3,500 psi
fy = 60,000 psi (Deck Reinforcement)
fy = 40,000 psi (Pier Reinforcement)
fy = 33,000 psi (ASTM A7)

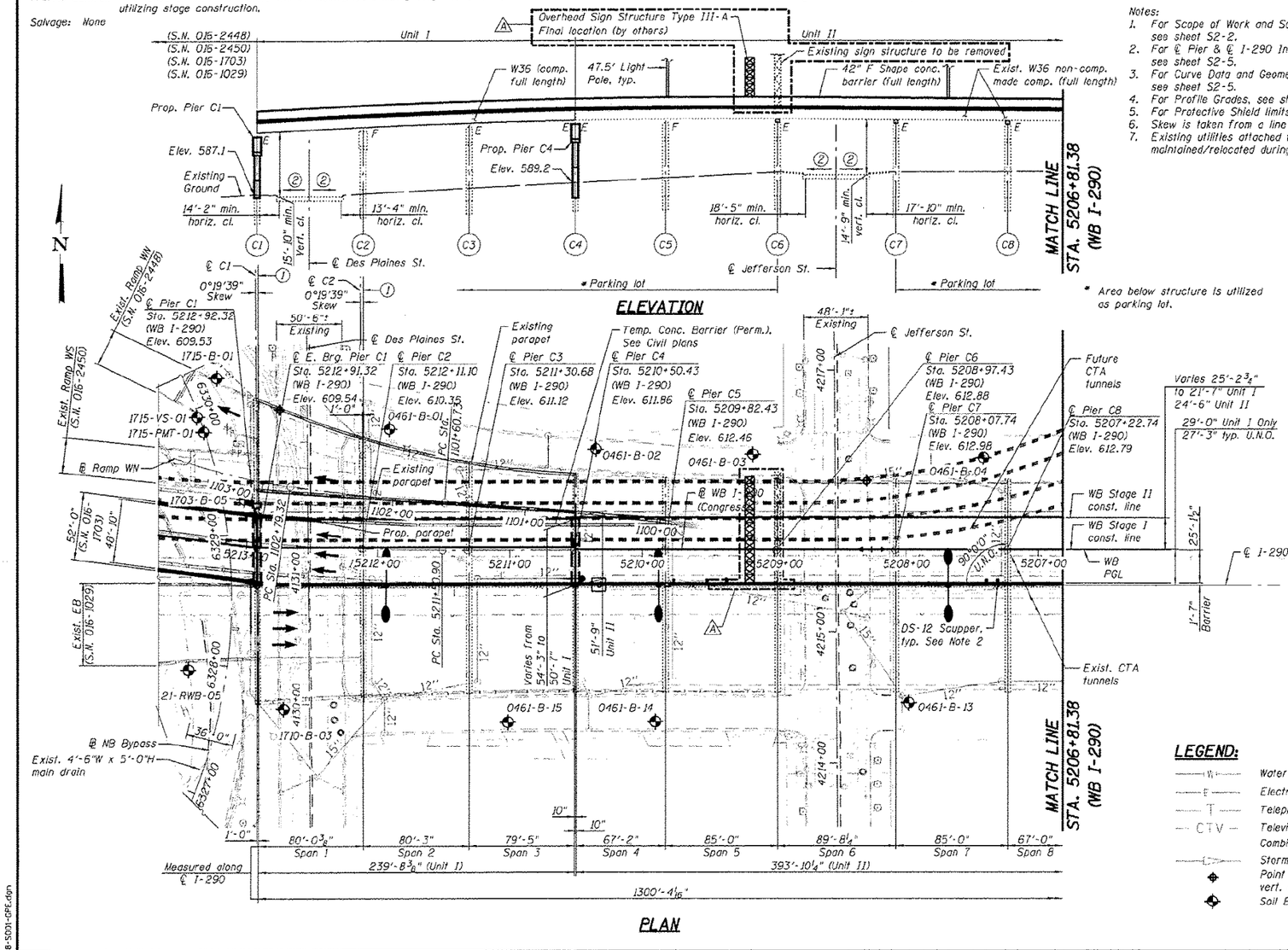
Notes:
1. For Scope of Work and Scupper Table, see sheet S2-2.
2. For ℄ Pier & ℄ I-290 Intersect Stationing, see sheet S2-5.
3. For Curve Data and Geometric Layout, see sheet S2-5.
4. For Profile Grades, see sheet S2-6 and S2-7.
5. For Protective Shield limits, see sheet S2-20.
6. Skew is taken from a line normal to ℄ I-290.
7. Existing utilities attached to structure will be maintained/relocated during construction.

LOADING HL-93
(SPANS 1-3 & PIER C1 THRU C4)
LOADING HS20-44 &
ALT. MILITARY (SPANS 4-16)

Allow 25#/sq. ft. for future wearing surface

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.085
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.144
Soil Site Class = D



PLAN

LOCATION SKETCH

LEGEND:

- W — Water Line
- E — Electric
- T — Telephone line
- CTV — Television line
- Combined Sewer
- Storm Sewer
- Point of min. vert. cl.
- Soil Boring Location

STATE OF ILLINOIS
JAMAL I. GRAINAWI
081-005161
CHICAGO, ILLINOIS
PROFESSIONAL ENGINEER
STRUCTURAL ENGINEER

Signed Jamal Grainawi
JAMAL I. GRAINAWI, S.E. Il Lic. No. 081-005161
Expires 11-30-2016.
Date 3/18/2016

GENERAL PLAN & ELEVATION - I I-290 (CONGRESS) VIADUCT OVER DES PLAINES ST. TO CANAL ST.
F.A.I. ROUTE 90/94/290
SECTION 2014-001 R&B (EB), 2014-004 R&B (WB)
COOK COUNTY
STATION 5165+03.09
STRUCTURE NO. 016-0461

PARSONS BRINCKERHOFF	USER NAME = pateic	DESIGNED - PJL	REVISED - ⚠ 4/21/2016 JIG
		CHECKED - AH	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 4/25/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S2-01 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	278
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

0163461-60X78-S001-DPE.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

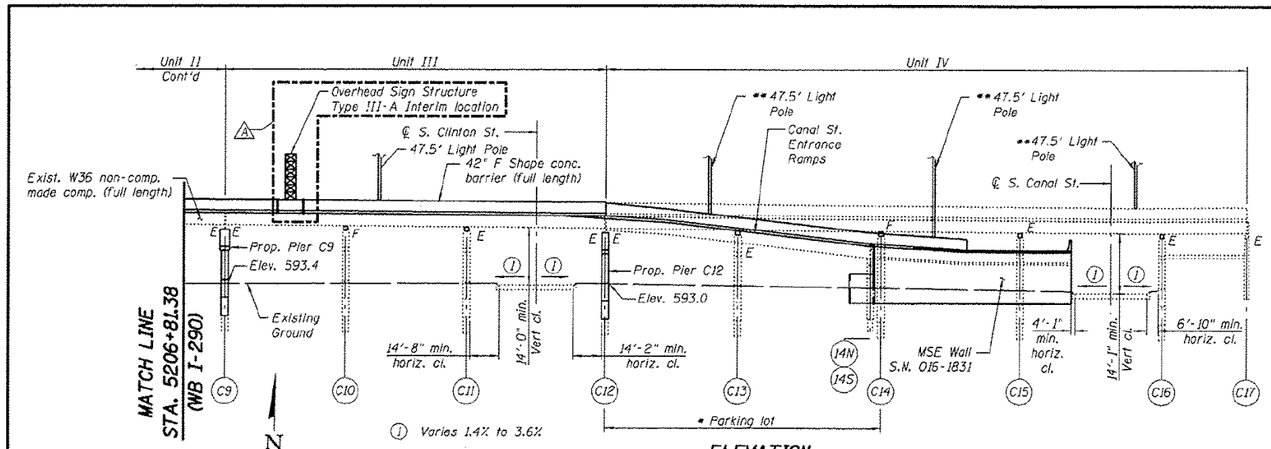
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1639
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\13906-60X93-SXX-Existing60

2:07:29 PM

FOR INFORMATION ONLY



DS-12 SCUPPER LOCATIONS WB I-290

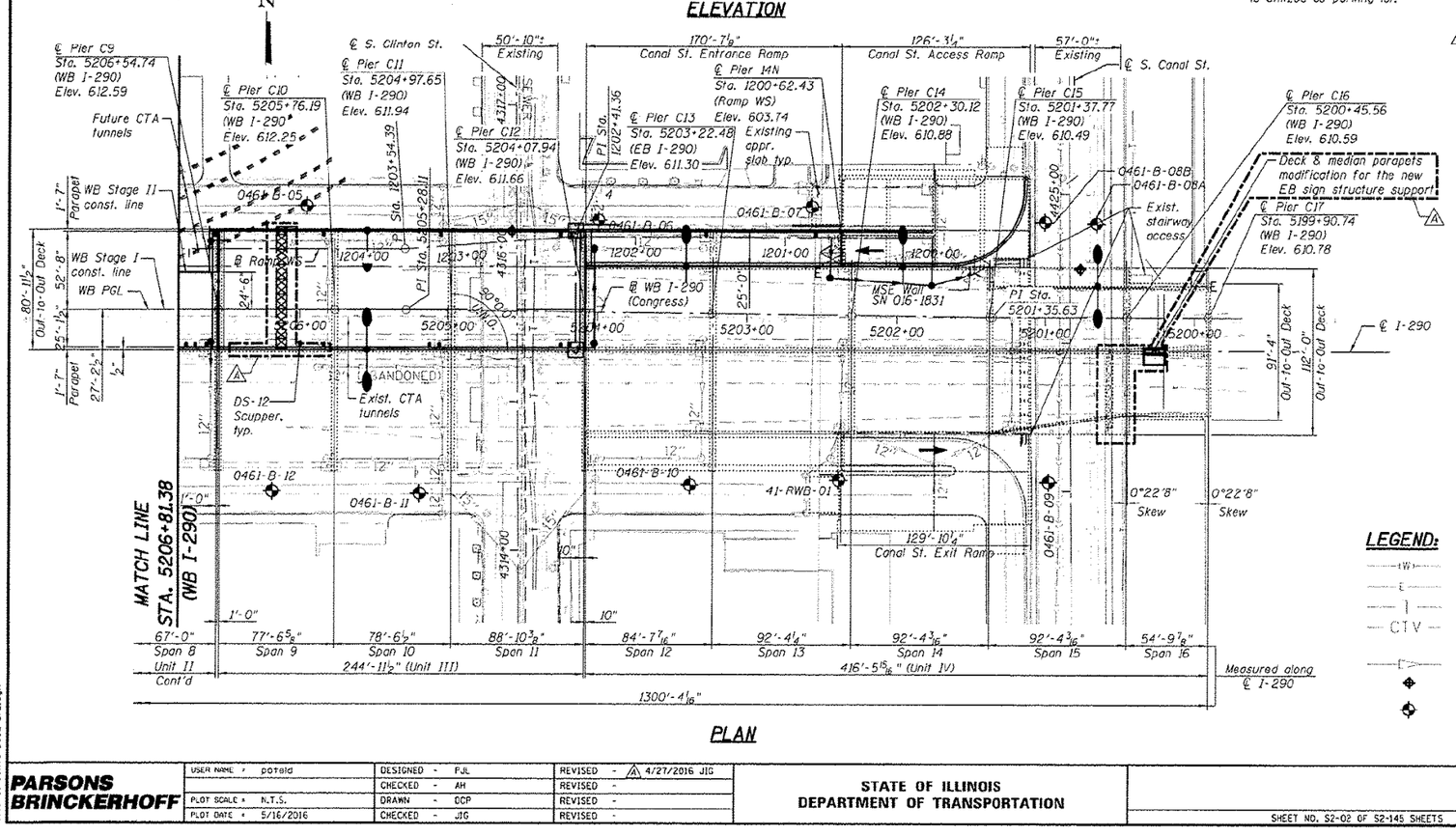
Station	Offset
5209+76.29	25.13 Lt.
5209+51.00	25.13 Lt.
5209+36.00	24.49 Lt.
5207+39.00	25.13 Lt.
5207+30.56	25.13 Lt.
5206+76.00	25.13 Lt.
5206+70.00	25.13 Lt.
5206+62.56	25.13 Lt.
5206+56.97	52.67 Rt.
5205+99.73	24.16 Lt.
5205+83.72	24.96 Lt.
5205+84.00	52.67 Rt.
5205+12.00	24.95 Lt.
5205+05.46	24.88 Lt.
5205+05.46	52.92 Rt.
5204+24.00	23.98 Lt.
5204+25.00	53.81 Rt.
5204+17.90	53.89 Rt.
5204+17.90	23.91 Lt.
5203+28.00	54.88 Rt.
5202+55.00	55.69 Rt.

* Area below structure is utilized as parking lot.

SCOPE OF WORK

1. Replace WB deck in Spans 1 through 11 with a composite deck.
2. Repair WB deck in Spans 12 through 15.
3. Repair WB superstructure in Spans 4 through 15. (End diaphragms).
4. Remove and replace WB superstructure between Piers C1 & C4.
5. Replace WB bridge deck expansion joints with modular type at Piers C1, C9 & C12 and strip seal type at Piers C4 & 14N.
6. Replace high profile rocker bearings with elastomeric bearings at WB Piers C3, C6, C7, C8, C11, C13, C15 & C16.
7. Replace nested roller bearings with high-load multi-rotational bearings at center-column of piers C1 thru C14.
8. Repair all WB substructure units except Piers C1, C4, C9, C12 & C17.
9. Reconstruct concrete columns and caps of WB Piers C1, C4, C9 & C12 and reconfigure beam seats at Piers C1 through C4 to accommodate the proposed WB deck geometry.
10. Remove and replace existing Chain Link Fence in Spans 14 through 16 (See roadway plans).
11. Remove and replace drainage system in WB Spans 1 through 11 (See drainage plans). Clean and/or repair the existing scupper system (grates and pipes) in Spans 12 through 15.
12. Remove and replace underpass lighting over the existing roadways (See electrical plan).
13. Remove and modify median parapets & partial deck in Span 16 of Unit IV for EB sign structure support.
14. Install WB sign structure at interim location east of Pier C9 during Stage IIA Construction (see roadway plans for sign structure).
15. Remove existing WB sign structure after proposed sign structure is installed.

** Existing light poles in Unit IV to be removed and replaced and to utilize existing light support. The Contractor shall provide all precautions necessary to prevent damage to the existing light support during the removal work. If the existing light support is damaged such as the new light pole cannot be installed properly, contractor must provide detail to match existing light support to be approved by the engineer. All Cost of new light support shall be included in Concrete Superstructure. For existing light support detail, See sheet 178 of 194 of existing plans for S.N. 016-0461.



PLAN

Notes:
1. For ℄ Pier & ℄ I-290 Intersect Stationing, see sheet S2-5.
2. For Curve Data, Geometric Layout, and Highway Classification, see sheet S2-5.
3. For Profile Grades, see sheet S2-6 and S2-7.
4. For Protective Shield limits, see sheet S2-20.
5. Skew is taken from a line normal to ℄ I-290.
6. Existing utilities attached to structure will be maintained/relocated during construction.

LEGEND:

- W — Water Line
- E — Electric
- T — Telephone line
- CTV — Television line
- Combined Sewer
- Storm Sewer
- Point of min. vert. cl.
- Soil Boring Location

GENERAL PLAN & ELEVATION - II
I-290 (CONGRESS) VIADUCT OVER DES PLAINES ST. TO CANAL ST.
F.A.I. ROUTE 90/94/290
SECTION 2014-001 R&B (EB), 2014-004 R&B (WB)
COOK COUNTY
STATION 5165+03.09
STRUCTURE NO. 016-0461

PARSONS BRINCKERHOFF	USER NAME = potsid	DESIGNED - PJL	REVISED - ⚠ 4/27/2016 JIG
		CHECKED - AH	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S2-02 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	279
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1640
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing61
2:07:36 PM
01604G1-60X78-S002-GPE.dgn

FOR INFORMATION ONLY

GENERAL NOTES:

1. Fasteners shall be ASTM A325 Type 1, hot dipped galvanized bolts. Bolts $^{7}/_{8}$" ϕ, holes $^{15}/_{16}$" ϕ, unless otherwise noted.

2. Calculated weight of Structural Steel = 390,250 lbs. (Gr. 50)
   = 2,690 lbs. (Gr. 36)

3. All structural steel except for steel in Temporary Support System shall be hot-dip galvanized (see special provisions).

4. The Contractor shall test the existing welds by non-desiructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.

5. No field welding is permitted except as specified in the contract documents.

6. Reinforcement bars designated (E) shall be epoxy coated.

7. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

   As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $^{1}/_{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

8. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

9. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

10. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$" (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

11. Concrete Sealer shall be applied to the designated areas of the Piers C1, C4, C9 & C12.

12. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

13. Cleaning and field painting of structural steel shall be done under a separate painting contract, unless noted otherwise.

14. Existing structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

15. Slipforming of the parapet is not allowed.

16. Contractor shall coordinate deck construction work between Piers 10 & 11 in Unit III with MEGA Bus. The Contractor shall install deck inserts underside of the deck for the future lighting work. Deck incerts will be provided by MEGA Bus and Contractor shall ask the Engineer in advance for these incerts. This work shall not be paid separately but shall be included with Concrete Superstructure.

17. Temporary Soil Retention System shall be as per Std. Spec. Section 522.07 and as modified herein. Temporary Soil Retention System shall be installed without the use of impact-type pile drivers. The proposed equipment and procedures used for the installation of Temporary Soil Retention System shall be submitted to the Engineer for approval prior to their use. If vibratory equipment utilized, the Contractor shall also submit documentation regarding the operating noise levels and operating vibration characteristics of the equipment proposed. The approval of the equipment and procedure by the Engineer does not guarantee the performance in the field of the equipment will be acceptable. If in the judgment of the Engineer, the noise and/or vibration effects exceed those required by the local residents, then the Contractor must halt production and find a remedy suitable to the Engineer. Threshold values for vibration monitoring are included in the special provision "CONSTRUCTION VIBRATION MONITORING". The costs incurred finding suitable equipment and procedures shall be included in the cost of Temporary Soil Retention System. No additional costs shall be paid for this effort. (A)

INDEX OF SHEETS

PARSONS BRINCKERHOFF	USER NAME = pateld	DESIGNED - PJL	REVISED - (A) 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA I
		CHECKED - AH	REVISED -		STRUCTURE NO. 016-0461
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -		SHEET NO. S2-03 OF S2-145 SHEETS
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	280
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

0160461-60X78 S003 INX.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1641
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\13906-60X93-SXX-Existing62

2:07:43 PM

FOR INFORMATION ONLY

STRUCTURAL ASSESSMENT OF EXISTING STRUCTURE NOTES:

1. In order to construct proposed superstructure & substructure elements, Contractor may elect to support temporary construction material and/or equipment, on the existing structures in the vicinity of the proposed structure. The Contractor shall submit Structural Assessment Report(s) for approval prior to beginning the work. See Special Provision.

2. An Existing Structure Information Package (ESIP) will be provided by the Department to the Contractor upon request.

3. The Contractor shall retain the services of an engineering firm, prequalified in the IDOT consultant selection category of Highway Bridge (Complex), for preparation of the Structural Assessment Report(s). Contractor's pre-approval shall not be applicable for this project. See Special Provision.

   Current Ratings on File for Existing Structures are as follows:

   S.N. 016-0461 (I-290 (Congress) Viaduct over Des Plaines St. to Canal St.)
   Inventory: HS 21.3
   Operating: HS 34.3
   Live Load Restrictions: None

   S.N. 016-1029 (EB I-290 over I-90/94)
   Inventory: HS 17.2
   Operating: HS 28.7
   Live Load Restrictions: None

   S.N. 016-1030 (WB I-290 over I-90/94)
   Inventory: HS 14.7
   Operating: HS 24.5
   Live Load Restrictions: None

   S.N. 016-2448 (Ramp WB I-290 to NB I-90/94 over Des Plaines Ave.)
   Inventory: HS 32.1 (HS 20+MOD)
   Operating: HS 53.5 (HS 20+MOD)
   Live Load Restrictions: None

   S.N. 016-2450 (Ramp WB I-290 to SB I-90/94 over I-90/94)
   Inventory: HS 14.2
   Operating: HS 23.6
   Live Load Restrictions: None

4. Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

5. The contractor is advised that the existing structures may contain members in deteriorated conditions with reduced load carrying capacities. It is the Contractor's responsibility to account for the condition of existing structures when developing construction procedures for using them to support construction loads and for the complete or partial removal or replacement of the structure.

6. The contractor shall verify that the structural demands of the applied loads due to the Contractor's means and methods will not exceed the available capacity of the structure at the time loads are applied. Most likely, the Contractor will be required to provide additional shoring under the existing bridges (or other methods of retrofitting) to support construction loads. Design, installation and subsequent removal of such shoring system will be the responsibility of the Contractor and will not be paid separately.

7. The Contractor shall use caution and not damage any component of the existing structure. Upon completion of work and prior to allowing traffic back on the existing structure the contractor must restore existing structure in its original condition.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL	
Removal of Existing Structures No. 2	Each	1		1	
Concrete Removal	Cu. Yd.	21.3	173.5	194.8	A
Removal of Existing Concrete Deck	Each	2		2	
Protective Shield	Sq. Yd.	7,745		7,745	A
Structure Excavation	Cu. Yd.		201	201	
Concrete Structures	Cu. Yd.		397.8	397.8	
Concrete Superstructure	Cu. Yd.	1,878.3		1,878.3	
Bridge Deck Grooving	Sq. Yd.	5,923		5,923	A
Protective Coat	Sq. Yd.	6,890		6,890	
Furnishing and Erecting Structural Steel	L. Sum	0.4		0.4	
Stud Shear Connectors	Each	29,112		29,112	
Reinforcement Bars, Epoxy Coated	Pound	411,230	99,490	510,720	A
Bar Splicers	Each	4,143	228	4,371	
Preformed Joint Strip Seal	Foot	75		75	
Elastomeric Bearing Assembly, Type I	Each	89		89	
Elastomeric Bearing Assembly, Type II	Each	66		66	
Elastomeric Bearing Assembly, Type III	Each	14		14	
Anchor Bolts, 3/4"	Each	114		114	
Anchor Bolts, 1"	Each	224	16	240	
Anchor Bolts, 1 1/4"	Each	18		18	
Anchor Bolts, 1 1/2"	Each		40	40	
Temporary Soil Retention System	Sq. Ft.		3,174	3,174	
Concrete Sealer	Sq. Ft.		7,596	7,596	
Cleaning Bridge Scuppers and Downspouts	Each	12		12	
Access Door	Each		1	1	
High Load Multi-Rotational Bearings, Guided Expansion, 250k	Each		8	8	
High Load Multi-Rotational Bearings, Guided Expansion, 450k	Each		20	20	
Jack and Remove Existing Bearings	Each	142	16	158	
Structural Steel Repair	Pound	18,774		18,774	A
Bridge Deck Latex Concrete Overlay, 2 3/4 inches	Sq. Yd.	613		613	
Handrail Removal	Foot	62.5		62.5	
Bridge Deck Scarification 2 3/4"	Sq. Yd.	613		613	
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		1,574	1,574	A
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	16	20	36	
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2		2	
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	19		19	
Drainage Scuppers, DS-12	Each	21		21	
Drainage System	L. Sum	0.7		0.7	
Temporary Drainage System No. 2	L. Sum	1		1	
Silicone Joint Sealer, 2"	Foot	75		75	
Silicone Joint Sealer, 1"	Foot	21		21	
Modular Expansion Joint 6"	Foot	209		209	
Temporary Shoring	Each	6	3	9	
Temporary Support System (to Remain In Place)	Each		6	6	

PARSONS BRINCKERHOFF	USER NAME = patoid	DESIGNED - PJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA II STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - AH	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	281
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -		SHEET NO. 52-04 OF 52-145 SHEETS			ILLINOIS FED. AID PROJECT		

016046A1-60X78-SG04-DET.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1642
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

CURVE DATA (WB I-290 (Congress))

PROP. CURVE P-CON-WB-1
PI STA. = 5212+68.02
Δ = 8° 12' 18" (RT)
D = 3° 30' 31"
R = 1,633.00'
T = 117.13'
L = 233.85'
E = 4.20'
e = 4.40%
T.R. = 67'
S.E. RUN = 147'
P.C. STA. = 5211+50.90
P.T. STA. = 5213+84.75
DS = 45
PS = 45

CURVE DATA (Ramp WN)

PROP. CURVE P-CIR-WN-1
PI STA. = 1102+20.05
Δ = 4° 14' 49" (RT)
D = 3° 34' 52"
R = 1,600.00'
T = 59.33'
L = 118.60'
E = 1.10'
e = 4.40%
T.R. = NA
S.E. RUN = 64'
P.C. STA. = 1101+60.73
P.T. STA. = 1102+79.32
DS = 30
PS = 30

PROP. CURVE P-CIR-WN-2
PI STA. = 1105+88.67
Δ = 69° 00' 44" (RT)
D = 12° 43' 57"
R = 450.00'
T = 309.35'
L = 542.02'
E = 96.07'
e = 5.20%
T.R. = NA
S.E. RUN = 46'
P.C. STA. = 1102+79.32
P.T. STA. = 1108+21.34
DS = 30
PS = 30

CURVE DATA (EB I-290 (Congress))

PROP. CURVE P-CON-EB-2
PI STA. = 5159+19.48
Δ = 1° 39' 04" (RT)
D = 0° 52' 23"
R = 6,562.00'
T = 94.56'
L = 189.11'
E = 0.68'
e = 2.00%
T.R. = 72'
S.E. RUN = 72'
P.C. STA. = 5158+24.92
P.T. STA. = 5160+14.03
DS = 50
PS = 45

PROP. CURVE P-CON-EB-3
PI STA. = 5184+63.84
Δ = 2° 50' 37" (RT)
D = 1° 02' 45"
R = 5,478.00'
T = 135.97'
L = 271.88'
E = 1.69'
e = NC
T.R. = NA
S.E. RUN = NA
P.C. STA. = 5183+27.87
P.T. STA. = 5185+99.75
DS = 40
PS = 35

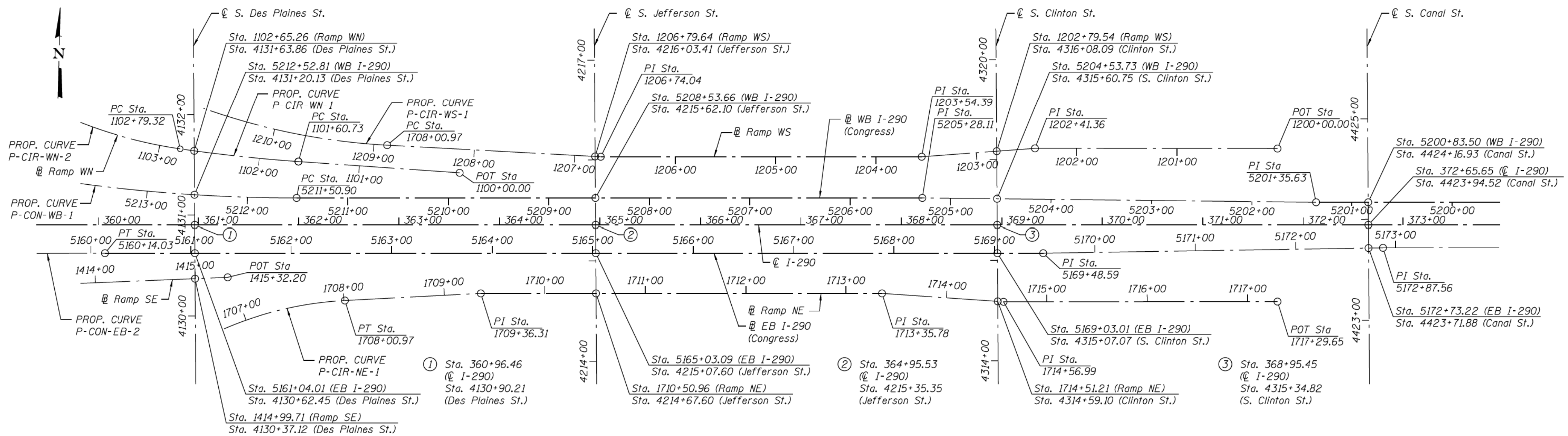
CURVE DATA (Ramp NE)

PROP. CURVE P-CIR-NE-1
PI STA. = 1706+01.77
Δ = 86° 38' 23" (RT)
D = 16° 22' 13"
R = 350.00'
T = 330.05'
L = 529.25'
E = 131.08'
e = 5.60%
T.R. = 48'
S.E. RUN = 136'
P.C. STA. = 1702+71.71
P.T. STA. = 1708+00.97
DS = 30
PS = 30

CURVE DATA (Ramp WS)

PROP. CURVE P-CIR-WS-1
PI STA. = 1210+36.88
Δ = 26° 00' 07" (RT)
D = 8° 48' 53"
R = 650.00'
T = 150.08'
L = 294.98'
E = 17.10'
e = 5.20%
T.R. = 52'
S.E. RUN = 134'
P.C. STA. = 1208+86.80
P.T. STA. = 1211+81.78
DS = 35
PS = 25

For information only, part of future contract



GEOMETRIC LAYOUT

PARSONS BRINCKERHOFF	USER NAME = pateld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOMETRIC LAYOUT & CURVE DATA STRUCTURE NO. 016-0461	F.A.I. RTE. 90/94/290	SECTION 2014-004 R&B (WB)	COUNTY COOK	TOTAL SHEETS 706	SHEET NO. 282
	PLOT SCALE = N.T.S.	CHECKED - AH	REVISED -		SHEET NO. S2-05 OF S2-145 SHEETS	CONTRACT NO. 60X78				
	PLOT DATE = 3/23/2016	DRAWN - DCP	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - JIG	REVISED -							

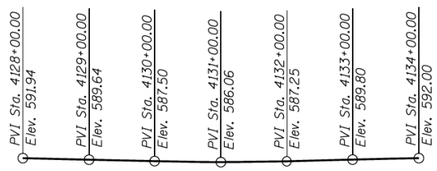
0160461-60X78-S005-DET.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE. 90/94/290	SECTION 2014-013R&B-R	COUNTY COOK	TOTAL SHEETS 1972	SHEET NO. 1643
		CHECKED -	REVISED -			CONTRACT NO. 60X93				
	PLOT SCALE = N.T.S	DRAWN -	REVISED -			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -							

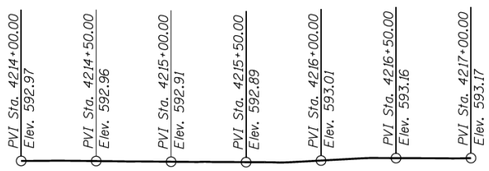
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing65

2:07:59 PM

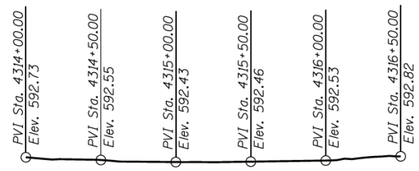
FOR INFORMATION ONLY



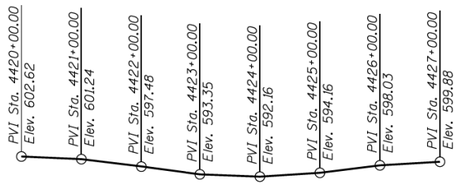
EXISTING PROFILE GRADE
(Along ℄ S. Des Plaines St.)



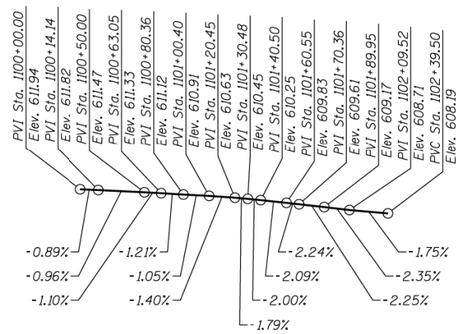
EXISTING PROFILE GRADE
(Along ℄ S. Jefferson St.)



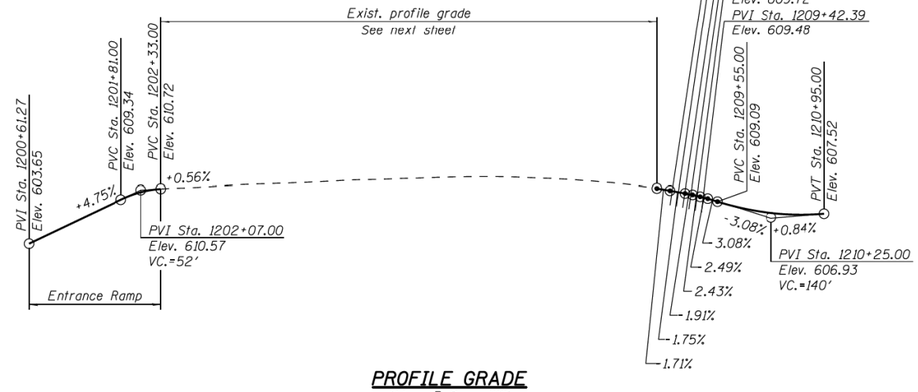
EXISTING PROFILE GRADE
(Along ℄ S. Clinton St.)



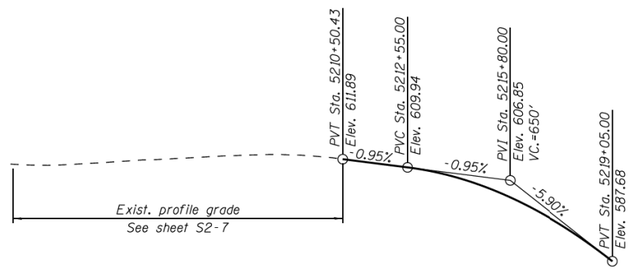
EXISTING PROFILE GRADE
(Along ℄ S. Canal St.)



PROFILE GRADE
(Along ℄ Ramp WN)



PROFILE GRADE
(Along ℄ Ramp WS)



PROFILE GRADE
(Along ℄ WB I-290 (Congress))

Note:

1. Existing profiles of WB I-290 (Congress) from Pier C4 to Pier C12, S. Des Plains St., S. Jefferson St., S. Clinton St. and S. Canal St. is based on a field survey by Dynasty Group, Inc. on 09-18-2015. Existing profile grade is to remain unchangsd.

0160461-60X78-5006-PGL.dgn

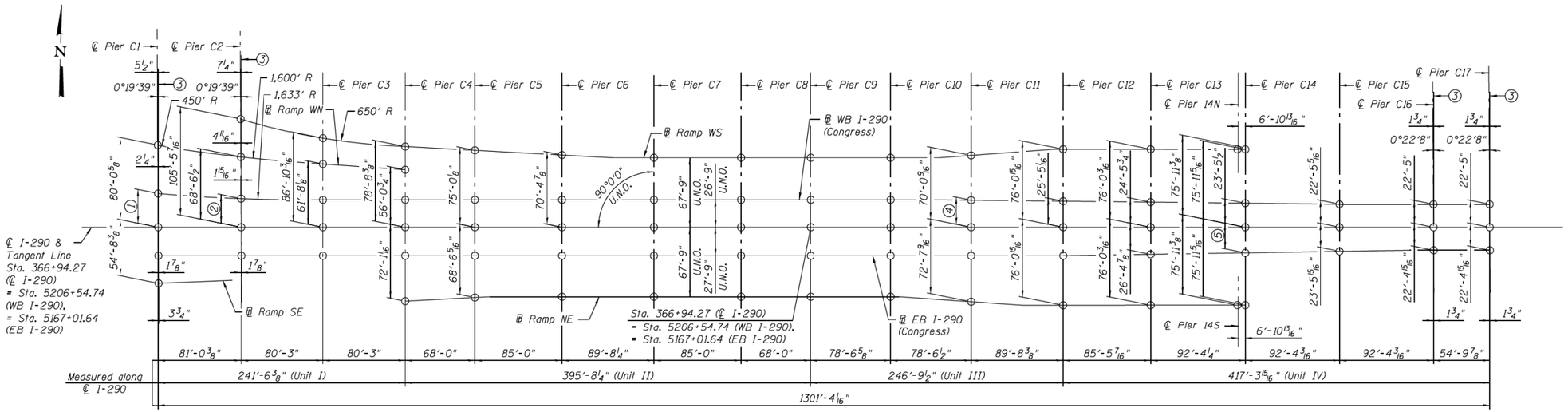
PARSONS BRINCKERHOFF				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROFILE GRADE STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = pateld	DESIGNED - PJL	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	283
		CHECKED - AH	REVISED -					CONTRACT NO. 60X78		
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -					ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-06 OF S2-145 SHEETS					

HBM ENGINEERING GROUP, LLC				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = ahmad.issa	DESIGNED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1644
		CHECKED -	REVISED -					CONTRACT NO. 60X93		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -							

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structural_016-1718\Existing Plans\33906-60X93-SXX-Existing66

2:08:07 PM

FOR INFORMATION ONLY



OFFSET SKETCH

℄ PIER & ℄ I-290 INTERSECT STATIONING

℄ Pier C1	Sta. 360+57.05	℄ Pier C10	Sta. 367+72.82
℄ Pier C2	Sta. 361+38.08	℄ Pier C11	Sta. 368+51.36
℄ Pier C3	Sta. 362+18.33	℄ Pier C12	Sta. 369+41.06
℄ Pier C4	Sta. 362+98.58	℄ Pier C13	Sta. 370+26.51
℄ Pier C5	Sta. 363+66.58	℄ Pier 14N/14S	Sta. 371+11.96
℄ Pier C6	Sta. 364+51.58	℄ Pier C14	Sta. 371+18.86
℄ Pier C7	Sta. 365+41.27	℄ Pier C15	Sta. 372+11.21
℄ Pier C8	Sta. 366+26.27	℄ Pier C16	Sta. 373+03.56
℄ Pier C9	Sta. 366+94.27	℄ Pier C17	Sta. 373+58.38

Notes:

1. *Stationing along ℄ I-290 is for information only. Stationing along ℄ EB I-290 (Congress) and ℄ Ramp NE are for information only, part of future contract.*
2. *Existing profile of WB I-290 (Congress) from Pier C4 to Pier C12 is based on a field survey by Dynasty Group, Inc. on 09-18-2015. Existing profile grade is to remain unchanged.*

EXISTING PROFILE GRADE

(Along a Line 27' N. of ℄ I-290.

① 32'-10 7/16"
② 27'-10 5/16"
③ Line perp. to ℄ I-290
④ 26'-4 15/16"
⑤ 24'-11 7/16"

EXISTING PROFILE GRADE STATIONS AND ELEVATIONS

PVI Sta.	Elev.	PVI Sta.	Elev.	PVI Sta.	Elev.	PVI Sta.	Elev.	PVI Sta.	Elev.	PVI Sta.	Elev.
362+98.58	611.86	364+80.00	612.96	366+70.00	612.67	368+60.00	611.91	370+50.00	611.08	372+40.00	610.41
363+00.00	611.88	364+90.00	612.98	366+80.00	612.65	368+70.00	611.88	370+60.00	611.03	372+50.00	610.42
363+10.00	612.01	365+00.00	613.01	366+90.00	612.61	368+80.00	611.84	370+70.00	610.99	372+60.00	610.44
363+20.00	612.11	365+10.00	613.02	367+00.00	612.57	368+90.00	611.81	370+80.00	610.95	372+70.00	610.45
363+30.00	612.21	365+20.00	613.01	367+10.00	612.54	369+00.00	611.78	370+90.00	610.90	372+80.00	610.46
363+40.00	612.29	365+30.00	612.99	367+20.00	612.49	369+10.00	611.75	371+00.00	610.86	372+90.00	610.49
363+50.00	612.36	365+40.00	612.98	367+30.00	612.44	369+20.00	611.73	371+10.00	610.82	373+00.00	610.51
363+60.00	612.42	365+50.00	612.97	367+40.00	612.40	369+30.00	611.71	371+20.00	610.78	373+10.00	610.54
363+70.00	612.49	365+60.00	612.95	367+50.00	612.36	369+40.00	611.67	371+30.00	610.74	373+20.00	610.58
363+80.00	612.55	365+70.00	612.93	367+60.00	612.31	369+50.00	611.63	371+40.00	610.70	373+30.00	610.62
363+90.00	612.61	365+80.00	612.91	367+70.00	612.27	369+60.00	611.59	371+50.00	610.65	373+40.00	610.64
364+00.00	612.68	365+90.00	612.88	367+80.00	612.22	369+70.00	611.53	371+60.00	610.61	373+50.00	610.68
364+10.00	612.74	366+00.00	612.86	367+90.00	612.18	369+80.00	611.46	371+70.00	610.56	373+59.26	610.72
364+20.00	612.78	366+10.00	612.83	368+00.00	612.14	369+90.00	611.40	371+80.00	610.52		
364+30.00	612.83	366+20.00	612.81	368+10.00	612.10	370+00.00	611.34	371+90.00	610.50		
364+40.00	612.86	366+30.00	612.78	368+20.00	612.06	370+10.00	611.29	372+00.00	610.47		
364+50.00	612.88	366+40.00	612.75	368+30.00	612.03	370+20.00	611.24	372+10.00	610.44		
364+60.00	612.90	366+50.00	612.72	368+40.00	611.99	370+30.00	611.18	372+20.00	610.42		
364+70.00	612.93	366+60.00	612.69	368+50.00	611.95	370+40.00	611.14	372+30.00	610.40		

0160461-60X78-S007-OET.dgn

PARSONS BRINCKERHOFF			
USER NAME = pateld	DESIGNED - PJL	REVISED -	
	CHECKED - AH	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OFFSET SKETCH
STRUCTURE NO. 016-0461
SHEET NO. S2-07 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	284
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

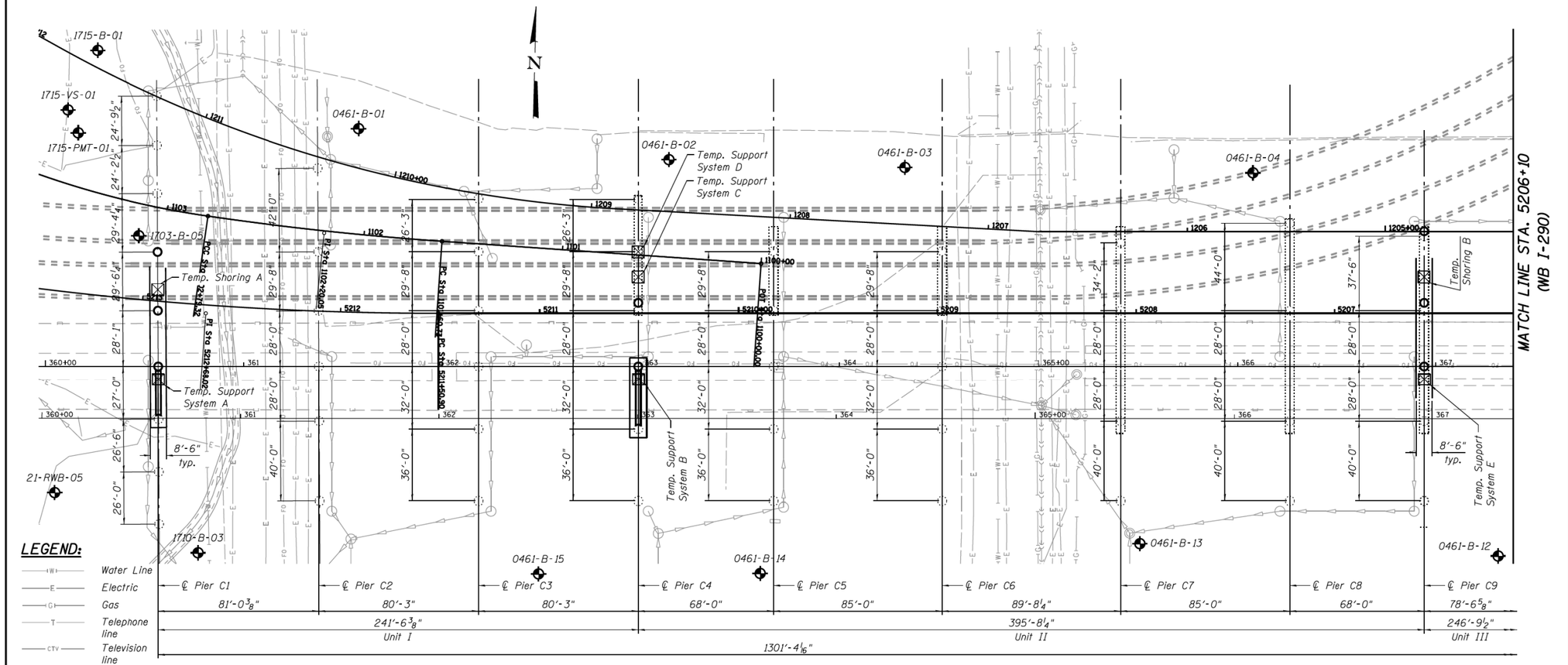
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

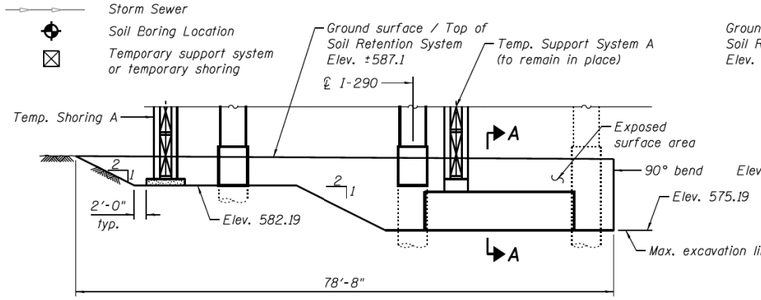
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1645
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NAIDocuments\01 AmericasTransportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing67
2:08:17 PM

FOR INFORMATION ONLY

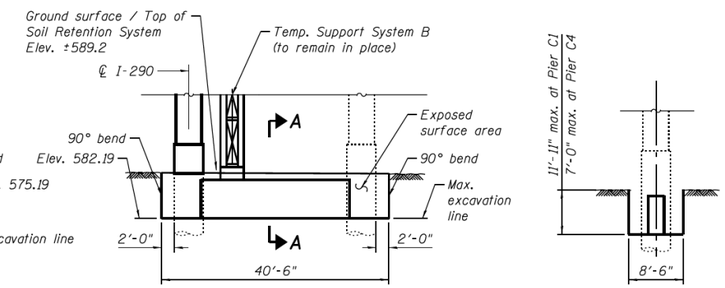


SUBSTRUCTURE LAYOUT PLAN - 1



ELEVATION - TEMPORARY SOIL RETENTION SYSTEM AT EXISTING PIER C1

(Locking East)



ELEVATION - TEMPORARY SOIL RETENTION SYSTEM AT EXISTING PIER C4

(Looking East)

SECTION A-A

Notes:

1. *Temporary Soil Retention System required for existing pier removal and Temporary Support System. See sheets S2-10 thru S2-15.*
2. *Temporary Soil Retention System to be left in place. Required for Temporary Support System. To be removed in future contract (by others).*
3. *A cantilever sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.*
4. *The Contractor shall take precautions to protect existing utilities and foundations during construction of the bridge. The utilities were located based on SUE and utility supplier information available at design.*
5. *Temporary soil retention system shall avoid existing roadway drainage.*

BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	3,174

0160461-60X78-S008-LAY.dgn

PARSONS BRINCKERHOFF			
USER NAME = pateld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - AH	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

SUBSTRUCTURE LAYOUT I
STRUCTURE NO. 016-0461
SHEET NO. S2-08 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	285
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NAADocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing68

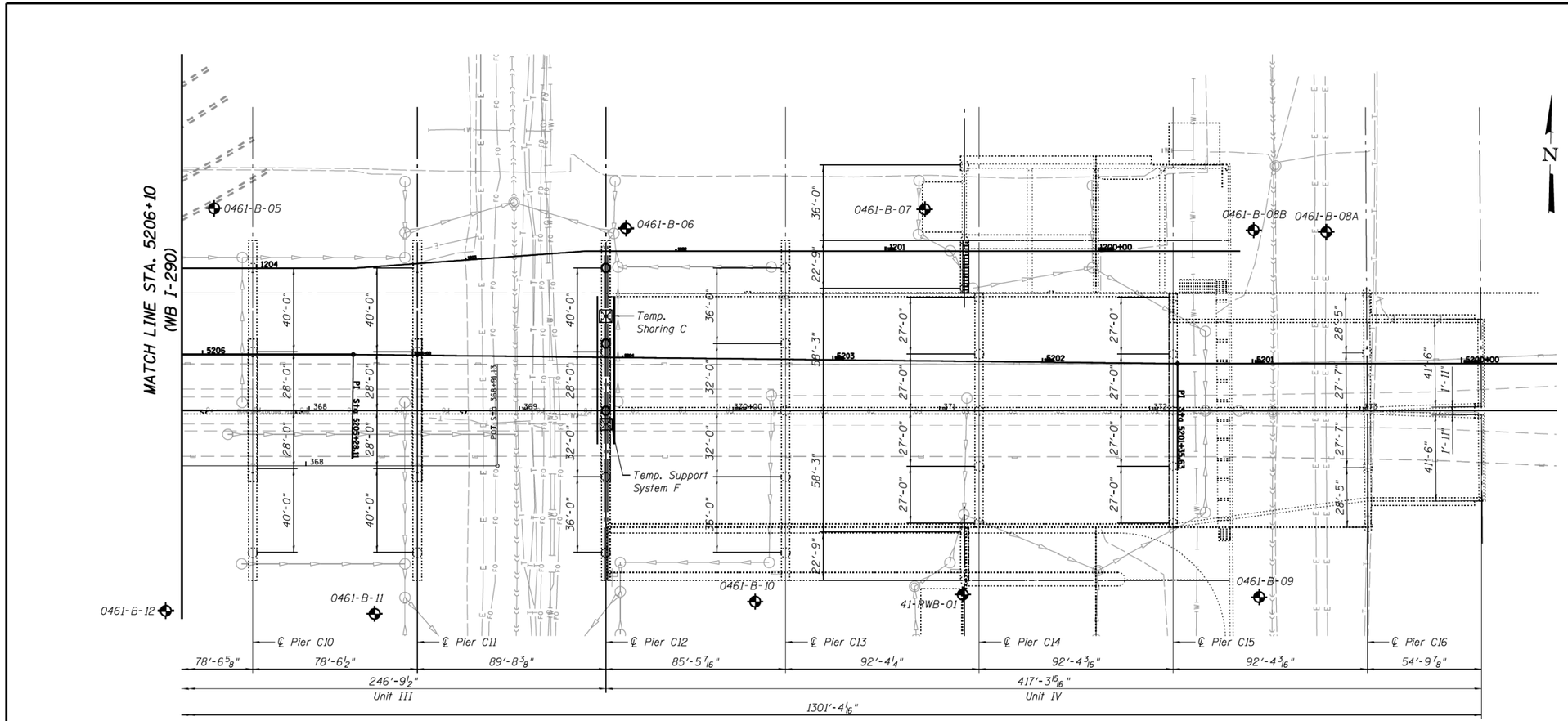
2:08:26 PM

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

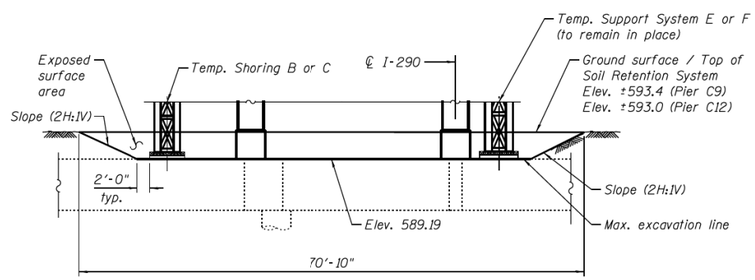
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1646
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



SUBSTRUCTURE LAYOUT PLAN - 2



ELEVATION - TEMPORARY SOIL RETENTION SYSTEM AT EXISTING PIERS C9 & C12

(Locking East)

LEGEND:

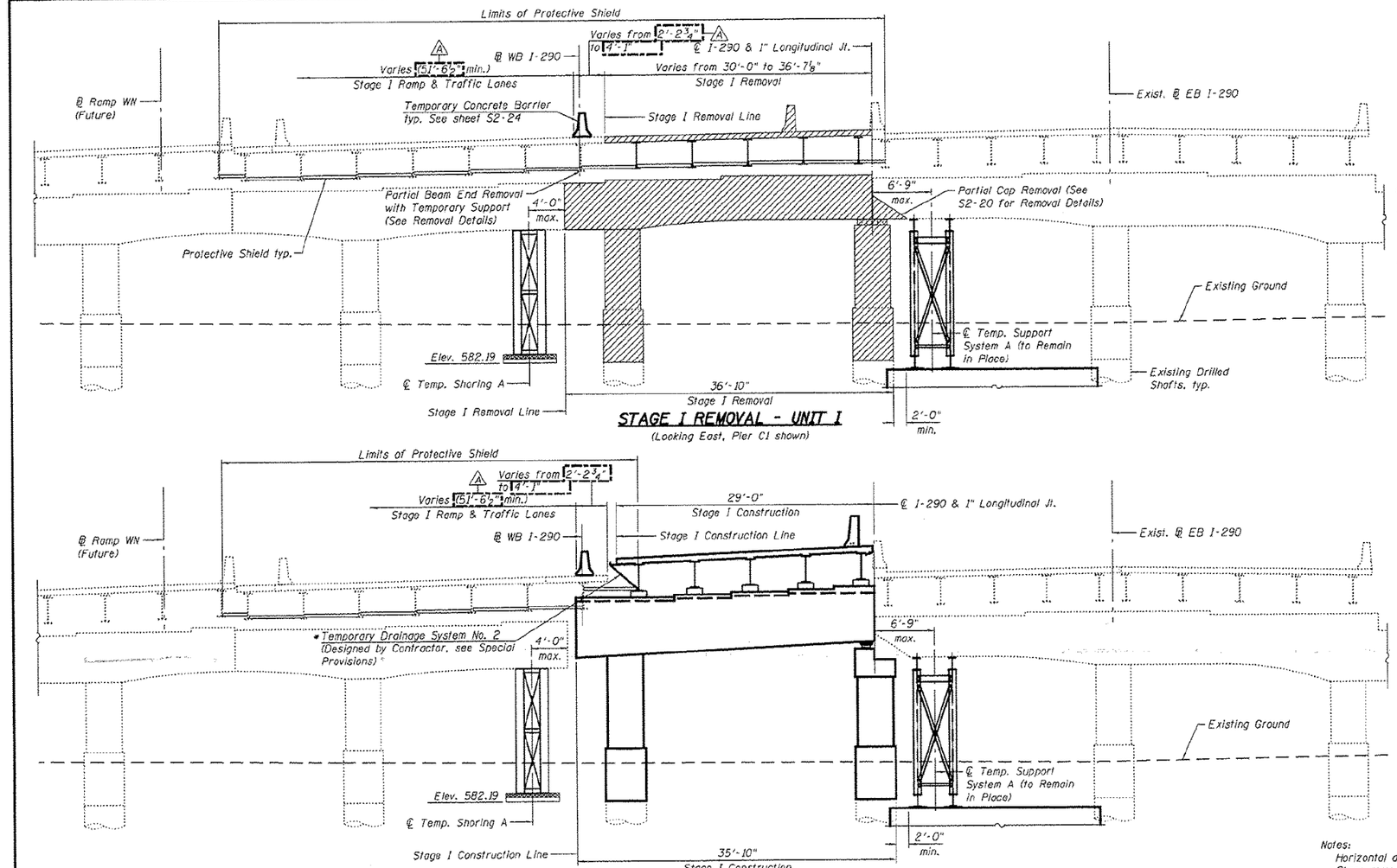
- Water Line
- Electric
- Gas
- Telephone line
- Television line
- Combined Sewer
- Storm Sewer
- Soil Boring Location
- Temporary support system or temporary shoring

0160461-60X78-S009-LAY.dgn

PARSONS BRINCKERHOFF	USER NAME = pateld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE LAYOUT II STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - AH	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	286
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-09 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1647
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



STAGE I REMOVAL - UNIT I

1. Install temporary concrete barrier as shown to locate construction work area on the south side of the existing structure.
2. Install Temporary Shoring and Temporary Support System (to Remain in Place) for pier caps at Pier C1 and for existing westbound Beam No. 20. For temporary support reaction summary and details, See S2-17 for Removal Details.
3. Install Temporary Soil Retention System at Pier C1.
4. Remove existing utilities and drainage system attached to substructure.
5. Remove the existing structure as indicated.

STAGE I CONSTRUCTION - UNIT I

1. Repair existing Piers C2 and C3. Construct Piers C1 and C4.
2. Erect Beams 14 through 18.
3. Construct reinforced concrete deck.
4. Perform bridge deck grooving.
5. Apply protective coat for the bridge deck and parapet.
6. Provide a temporary drainage system. Connection of formwork to beam must be designed to withstand additional loading.

LEGEND

Removal of Existing Structures No. 2

BILL OF MATERIAL

Item	Unit	Quantity
Temporary Drainage System No. 2	L. Sum	1

Notes:

Horizontal dimensions are measured perpendicular to ℄ I-290.

Stage removal and stage construction lines are different for the superstructure and substructure.

Contractor shall provide Temporary Shoring for the existing pier cap and existing Beam No. 20. The Temporary Shoring shall be approved by the Engineer. Such approval will not relieve the Contractor of responsibility for the safety of the structure. See Special Provisions.

For quantity of Temporary Concrete Barrier, see roadway plans.

For Temporary Shoring and Temporary Support System (to remain in place) reactions and quantities, see sheets S2-16 and S2-17, respectively.

PARSONS BRINCKERHOFF	USER NAME = patelg	DESIGNED - IJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS I – UNIT I STRUCTURE NO. 016-0461
		CHECKED - PJL	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -		
	PLOT DATE = 5/15/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-10 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	207
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

0160461-60X78-S010-STG.dgn

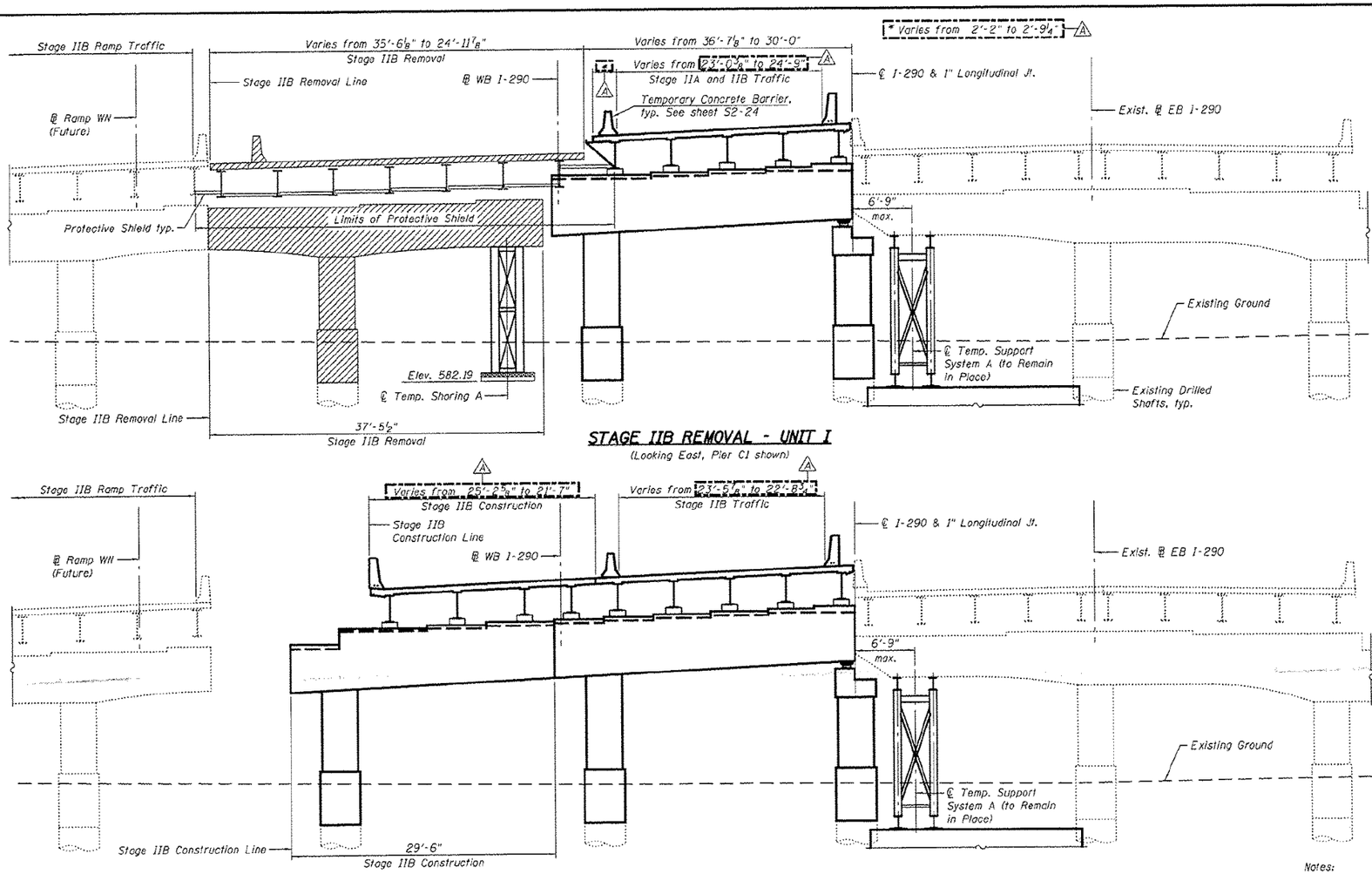
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1648
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing70

2:08:43 PM

FOR INFORMATION ONLY



STAGE IIB REMOVAL - UNIT I

(Looking East, Pier C1 shown)

STAGE IIB CONSTRUCTION - UNIT I

(Looking East, Pier C1 shown)

STAGE IIA TRAFFIC - UNIT I

1. Install temporary concrete barrier on the new deck to locate IIA Traffic and construction work area on the Stage I constructed portion of the bridge.

STAGE IIB REMOVAL - UNIT I

1. Begin removal operations on Unit I upon completion of work on Unit II and III under Stage IIA traffic.
2. Remove existing utilities and drainage system attached to substructure.
3. Remove the existing structure as indicated.
4. Remove Temporary Shoring A.

STAGE IIB CONSTRUCTION - UNIT I

1. Repair and rehabilitate existing Piers C2 and C3. Construct Piers C1 and C4.
2. Erect Beams 10 through 13.
3. Construct reinforced concrete deck.
4. Perform bridge deck grooving.
5. Apply protective coat for the bridge deck and parapet.
6. Place temporary pavement markings on the top of deck for staged traffic.

LEGEND

Removal of Existing Structures No. 2

Notes:

Horizontal dimensions are measured perpendicular to ℄ I-290.

Stage removal and stage construction lines are different for the superstructure and substructure.

Contractor shall provide Temporary Shoring for the existing pier cap. The Temporary Shoring shall be approved by the Engineer. Such approval will not relieve the Contractor of responsibility for the safety of the structure. See Special Provisions.

For quantity of Temporary Concrete Barrier, see roadway plans.

For Temporary Shoring and Temporary Support System (to remain in place) reactions and quantities, see sheets S2-16 and S2-17, respectively.

PARSONS BRINCKERHOFF	USER NAME = potald	DESIGNED - IJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS II – UNIT I STRUCTURE NO. 016-0461 SHEET NO. S2-11 OF S2-145 SHEETS	F.A.I. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED - PJL	REVISED -			90/94/290	2014-004 R&B (NB)	COOK / 706 / 286
	PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -					CONTRACT NO. 60X78
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -					ILLINOIS FED. AID PROJECT

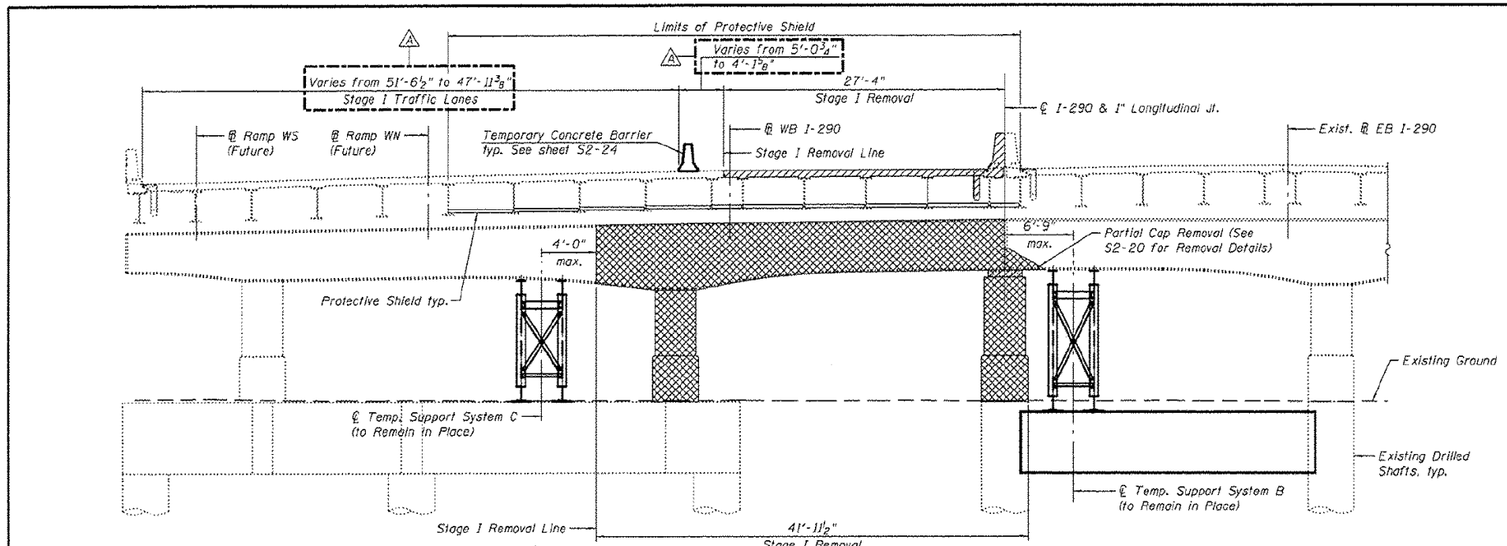
016046I-60X78-S01-STG.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK / 1972 / 1649
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS FED. AID PROJECT

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing71

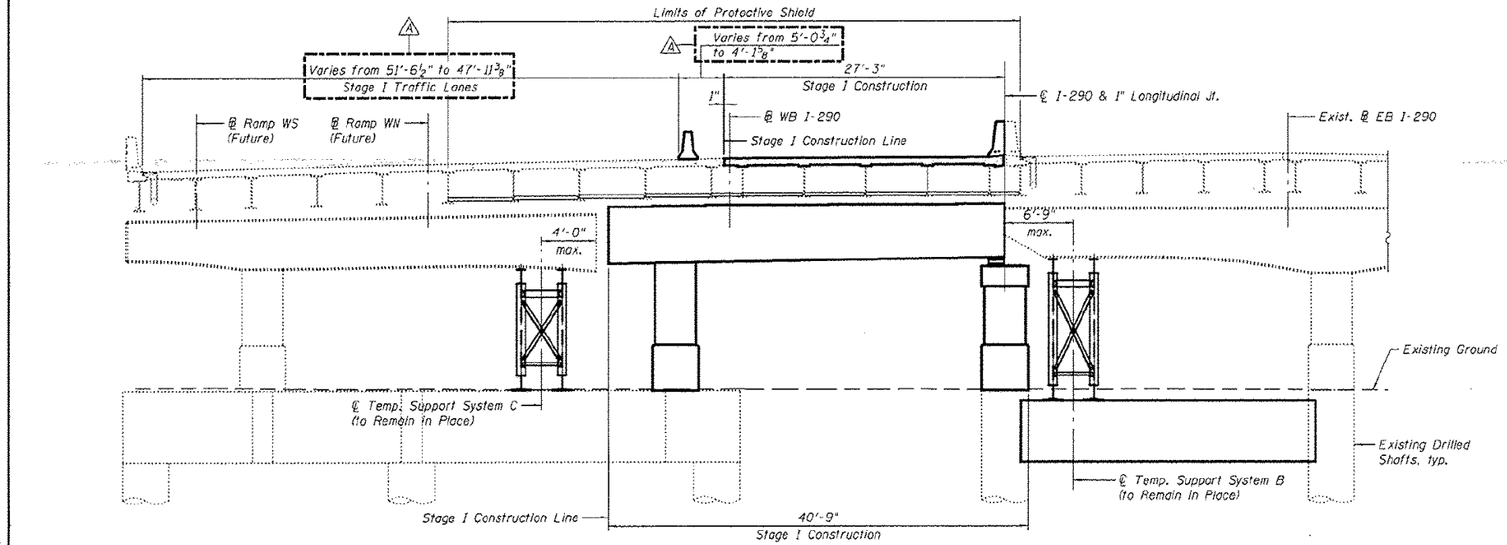
2:08:51 PM

FOR INFORMATION ONLY



STAGE I REMOVAL - UNIT II

(Looking East, Pier C4 shown)



STAGE I CONSTRUCTION - UNIT II

(Looking East, Pier C4 shown)

STAGE I REMOVAL - UNIT II

1. Install temporary concrete barrier as shown to locate construction work area on the south side of the existing structure.
2. Install Temporary Support System B and C (to Remain in Place). Install temporary shoring and cribbing for existing westbound Beams 8 thru 14.
3. Remove existing utilities and drainage system attached to substructure.
4. Remove the existing structure as indicated.

STAGE I CONSTRUCTION - UNIT II

1. Repair existing cap, columns and reconstruct beam seats at Piers C5 thru C8. Construct Piers C4 and C9.
2. Remove and Replace existing bearings.
3. Install Shear Stud Connectors to existing beams and set in new bearings.
4. Construct reinforced concrete deck.
5. Perform bridge deck grooving.
6. Apply protective coat for the bridge deck and parapet.

LEGEND

Removal of Existing Concrete Deck

Removal of Existing Structures No. 2

Notes:

Horizontal dimensions are measured perpendicular to ℄ I-290.

Stage removal and stage construction lines are different for the superstructure and substructure.

Contractor shall provide temporary shoring and cribbing for the existing westbound Beams 8 thru 14. Cost included with Jack and Remove Existing Bearings. See Special Provisions.

For quantity of Temporary Concrete Barrier, see roadway plans.

For Temporary Shoring and Temporary Support System (to Remain in Place) reactions and quantities, see sheets S2-16 and S2-17, respectively.

PARSONS BRINCKERHOFF	USER NAME = potold	DESIGNED - IJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS I – UNIT II STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	289
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -					CONTRACT NO. 60X78		
					SHEET NO. 52-12 OF S2-145 SHEETS			ILLINOIS FED. AID PROJECT		

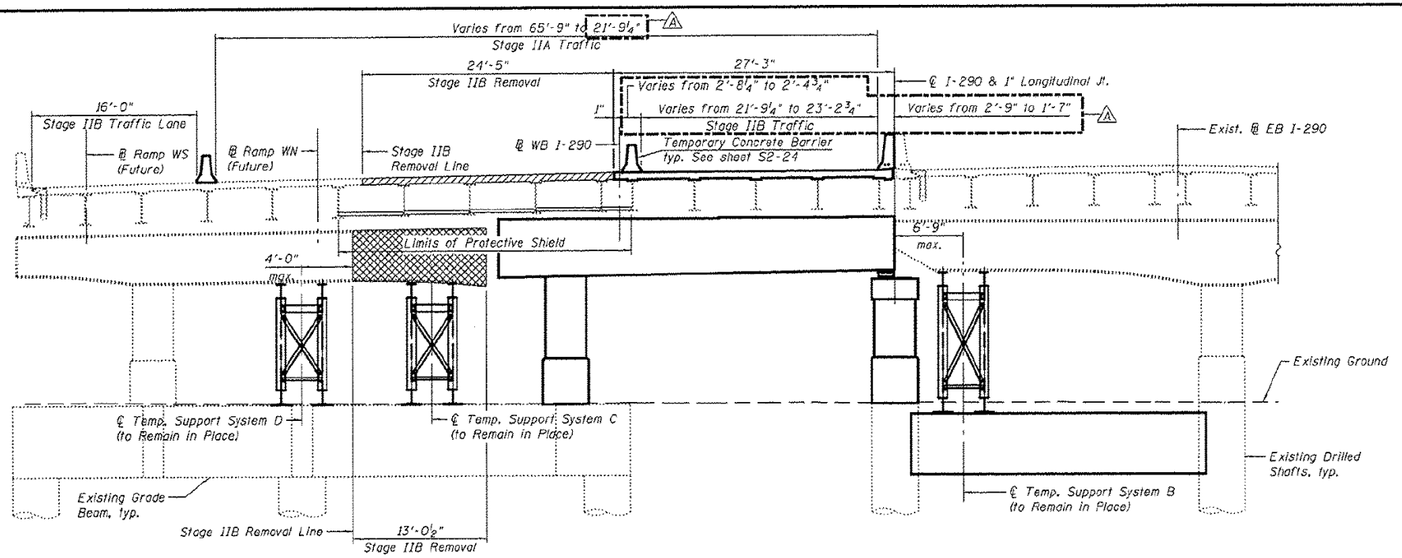
016046I-60X78-S012-STG.dgn

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NAIDocuments\01 Americas\Transportation\60269938 CircleIPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing72

2:08:58 PM

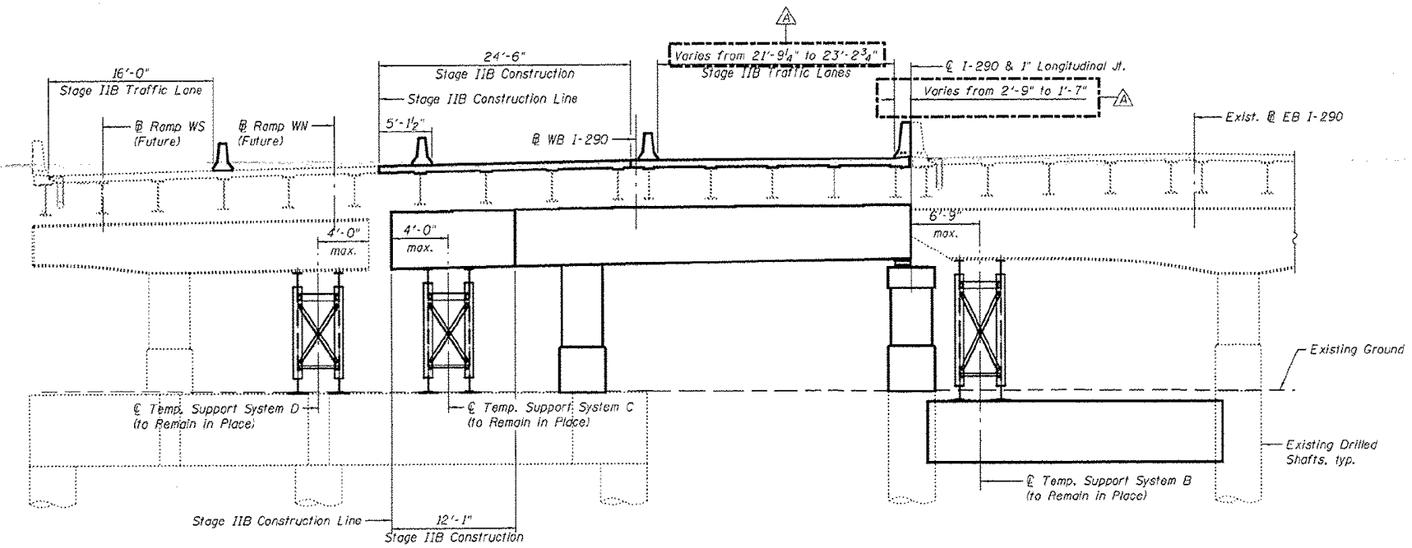
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1650
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



STAGE IIB REMOVAL - UNIT II

(Looking East, Pier C4 shown)



STAGE IIB CONSTRUCTION - UNIT II

(Looking East, Pier C4 shown)

STAGE IIA TRAFFIC - UNIT II

1. Install temporary concrete barrier on the new and existing deck to locate Stage IIA Traffic and construction work area on the Stage I constructed portion of the bridge. Refer to Roadway Plans for additional details on Stage IIA Traffic.
2. Construction work to be completed during Stage IIA Traffic includes the reconstruction of Pier C9, bearing replacement, deck expansion joint and installation of shear studs within limits of deck expansion joint.

STAGE IIB REMOVAL - UNIT II

1. Relocate temporary concrete barrier on the new and existing deck to locate Stage IIB Traffic and construction work area on the Stage I constructed portion of the bridge.
2. Install Temporary Support System D (to Remain in Place) under existing pier cap. Install temporary shoring and cribbing for existing westbound Beams 6 and 7.
3. Remove existing utilities and drainage system attached to substructure.
4. Remove the existing structure as indicated.

STAGE IIB CONSTRUCTION - UNIT II

1. Repair existing cap, columns and reconstruct beam seats at Piers C5 thru C8. Construct Piers C4 and C9.
2. Remove and Replace existing bearings.
3. Install Shear Stud Connectors to existing beams and set in new bearings.
4. Construct reinforced concrete deck.
5. Perform bridge deck grooving.
6. Apply protective coat for the bridge deck and parapet.

LEGEND

Removal of Existing Concrete Deck

Removal of Existing Structures No. 2

Notes:

Horizontal dimensions are measured perpendicular to ℄ I-290.

Stage removal and stage construction lines are different for the superstructure and substructure.

Contractor shall provide temporary shoring and cribbing for the existing westbound Beams 6 and 7. Cost included with Jack and Remove Existing Bearings. See Special Provisions.

For quantity of Temporary Concrete Barrier, see roadway plans.

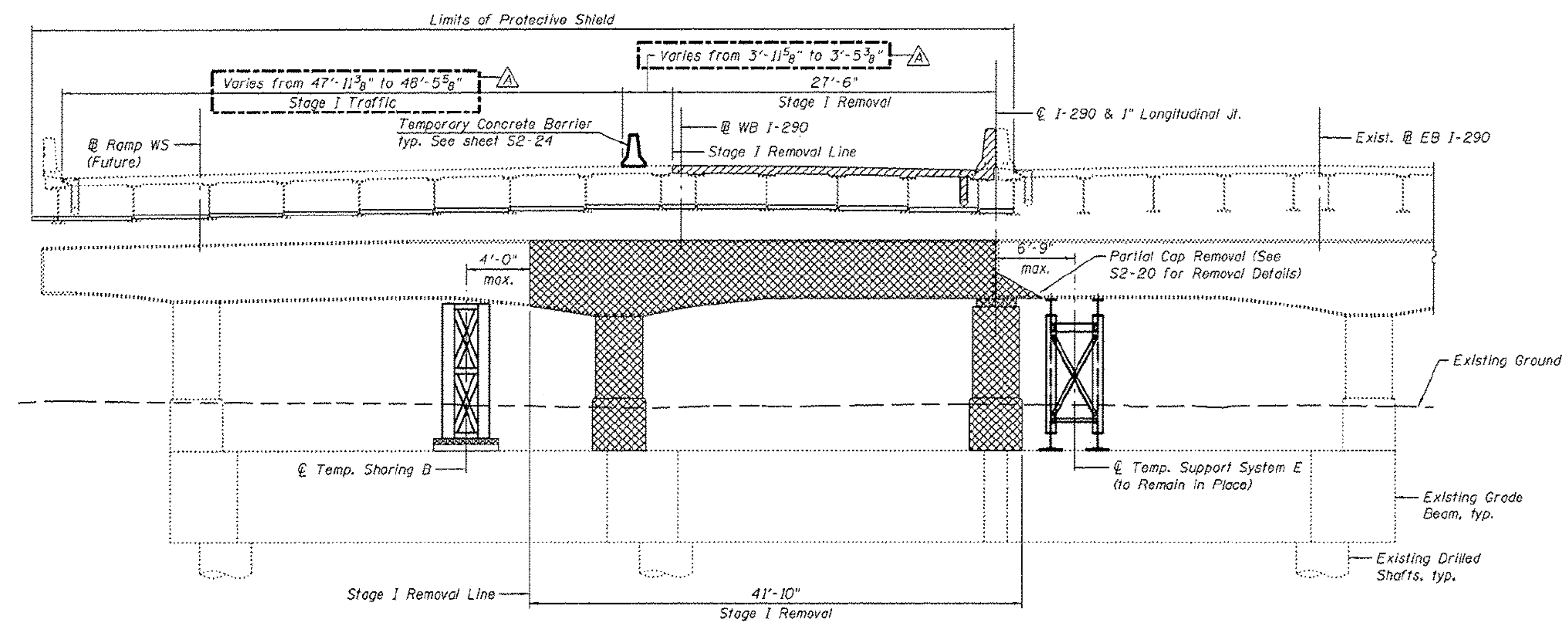
For Temporary Shoring and Temporary Support System (to Remain in Place) reactions and quantities, see sheets S2-16 and S2-17, respectively.

PARSONS BRINCKERHOFF	USER NAME = patela	DESIGNED - IJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS II - UNIT II	F.A.I. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
	PLOT SCALE = N.T.S.	CHECKED - PJL	REVISED -		STRUCTURE NO. 016-0461	90/94/290	2014-004 R&B (WB)	COOK / 106 / 290
	PLOT DATE = 5/16/2016	DRAWN - IJL	REVISED -		SHEET NO. S2-13 OF S2-145 SHEETS			CONTRACT NO. 60X78
	016046-60X78-S013-STG.dgn	CHECKED - JJC	REVISED -				ILLINOIS FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK / 1972 / 1651
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -				ILLINOIS FED. AID PROJECT	

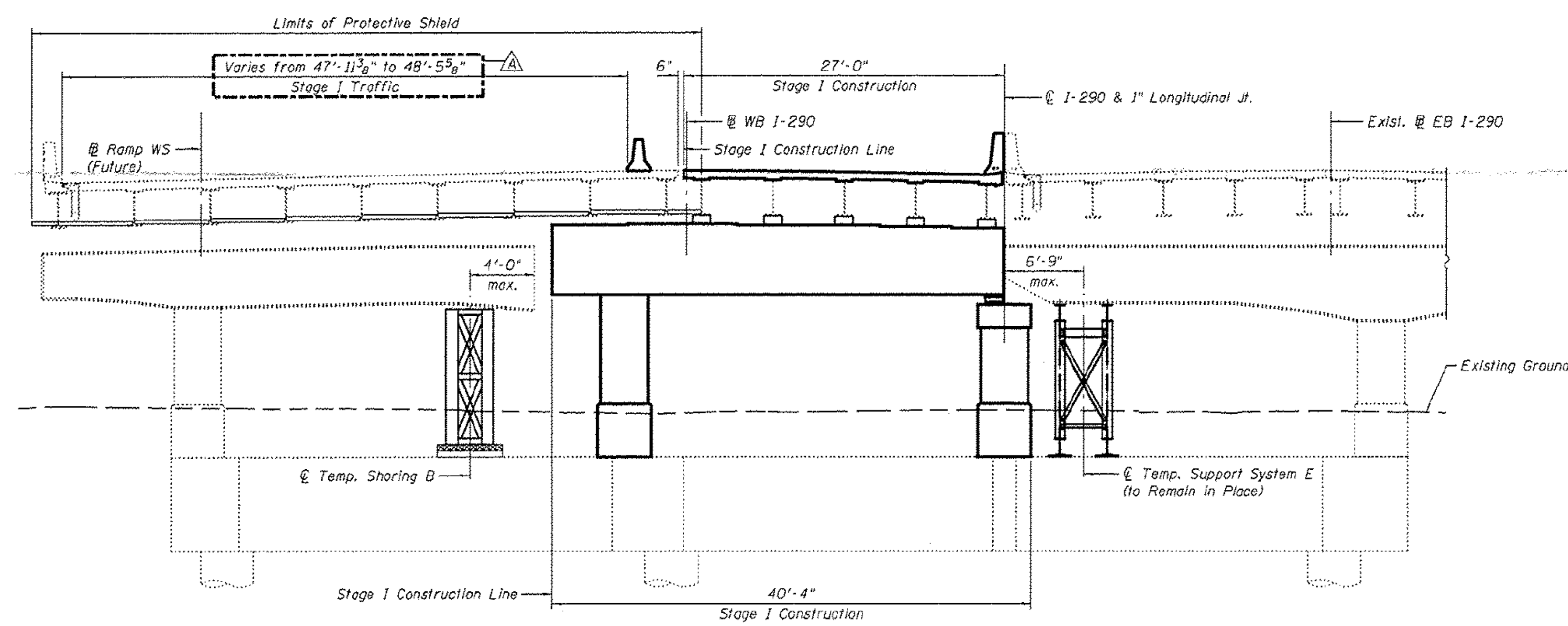
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NAIDocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\13906-60X93-SXX-Existing73

2:09:05 PM



STAGE I REMOVAL - UNIT III

(Looking East, Pier C9 shown, Pier C12 similar)



STAGE I CONSTRUCTION - UNIT III

(Looking East, Pier C9 shown, Pier C12 similar)

STAGE I REMOVAL - UNIT III

1. Install temporary concrete barrier as shown to locate construction work area on the south side of the existing structure.
2. Install temporary shoring and cribbing for existing westbound Beams 8 thru 14 and Temporary Supports E System (to Remain in Place) and Temporary Shoring B for existing Pier Cap.
3. Remove existing utilities and drainage system attached to substructure.
4. Remove the existing structure as indicated.

STAGE I CONSTRUCTION - UNIT III

1. Repair existing cap, columns and reconstruct beam seats at Piers C10 and C11. Construct Piers C9 and C12.
2. Remove and Replace existing bearings.
3. Install Shear Stud Connectors to existing beams and set in new bearings.
4. Construct reinforced concrete deck.
5. Perform bridge deck grooving.
6. Apply protective coat for the bridge deck and parapet.

LEGEND:

- Removal of Existing Concrete Deck
- Concrete Removal

Notes:
Horizontal dimensions are measured perpendicular to ℄ I-290.
Stage removal and stage construction lines are different for the superstructure and substructure.
Contractor shall provide temporary shoring and cribbing for the existing westbound Beams 8 thru 14. Cost included with Jack and Remove Existing Bearings. See Special Provisions.
Contractor shall provide Temporary Shoring for the existing pier cap. The Temporary Shoring shall be approved by the Engineer. Such approval will not relieve the Contractor of responsibility for the safety of the structure. See Special Provisions.
For quantity of Temporary Concrete Barrier, see roadway plans.
For Temporary Shoring and Temporary Support System (to Remain in Place) reactions and quantities, see sheets S2-16 and S2-17, respectively.

0160161-60X78-S014-STG.dgn

PARSONS BRINCKERHOFF	USER NAME = patela	DESIGNED - IJL	REVISED - ⚠1 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS I - UNIT III STRUCTURE NO. 016-0461
		CHECKED - PJL	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -		
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-14 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	291
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

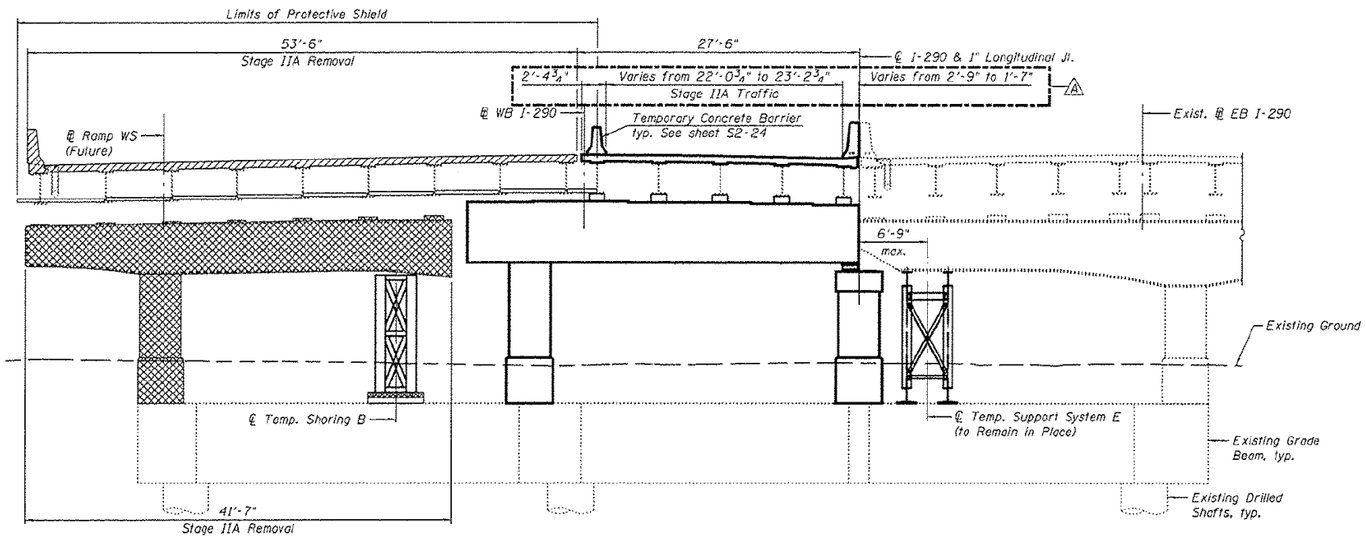
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing74

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

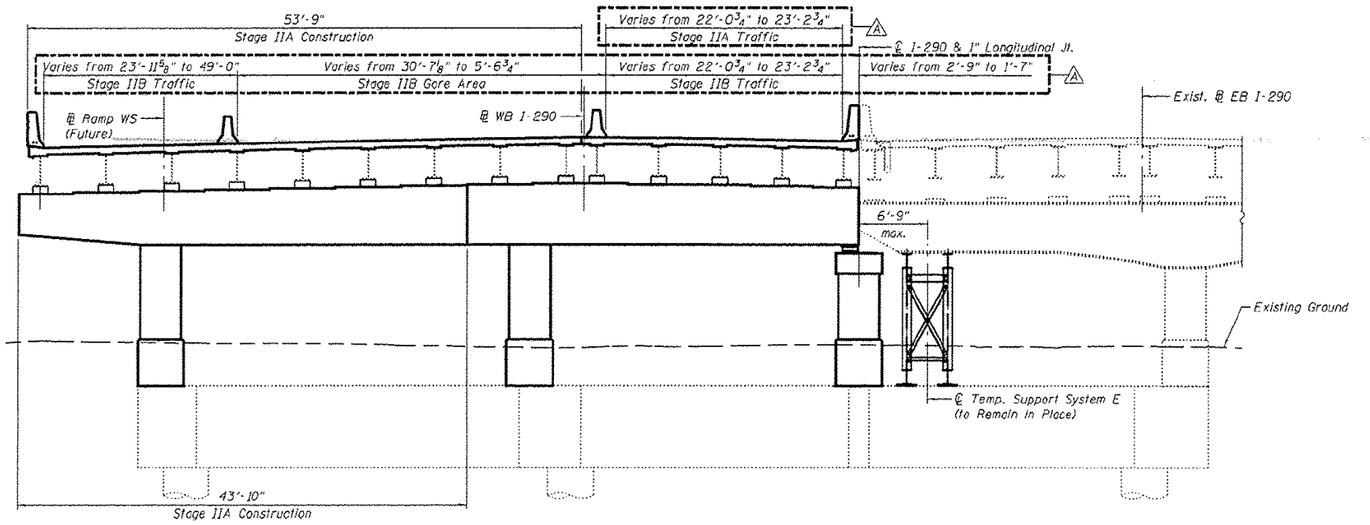
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1652
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

2:09:13 PM

FOR INFORMATION ONLY



STAGE IIA REMOVAL - UNIT III
(Looking East, Pier C9 shown, Pier C12 similar)



STAGE IIA CONSTRUCTION - UNIT III
(Looking East, Pier C9 shown, Pier C12 similar)

STAGE IIA REMOVAL - UNIT III

1. Install temporary concrete barrier on new deck to locate Stage IIA Traffic and construction work area on the Stage 1 Constructed portion of the bridge.
2. Install temporary shoring and cribbing for existing westbound Beams 1 thru 7.
3. Remove the existing structure as indicated.

STAGE IIA CONSTRUCTION - UNIT III

1. Repair existing cap, columns and reconstruct beam seats at Piers C10 thru C11. Construct Piers C9 and C12.
2. Remove Temp. Shoring B.
3. Remove and Replace existing bearings.
4. Install Shear Stud Connectors to existing beams and set in new bearings.
5. Construct reinforced concrete deck and expansion joints.
6. Perform bridge deck grooving.
7. Apply protective coat for the bridge deck and parapet.

STAGE IIB TRAFFIC - UNIT III

1. Relocate temporary concrete barrier on the new deck to locate Stage IIB Traffic and construction work area on the constructed portion of the bridge.

LEGEND

Removal of Existing Concrete Deck

Concrete Removal

Notes:
Horizontal dimensions are measured perpendicular to ℄ I-290.
Stage removal and stage construction lines are different for the superstructure and substructure.
Contractor shall provide temporary shoring and cribbing for the existing westbound Beams 1 thru 7. Cost included with Jack and Remove Existing Bearings. See Special Provisions.
For quantity of Temporary Concrete Barrier, see roadway plans.
For Temporary Shoring and Temporary Support System (to Remain in Place) reactions and quantities, see sheets S2-16 and S2-17, respectively.

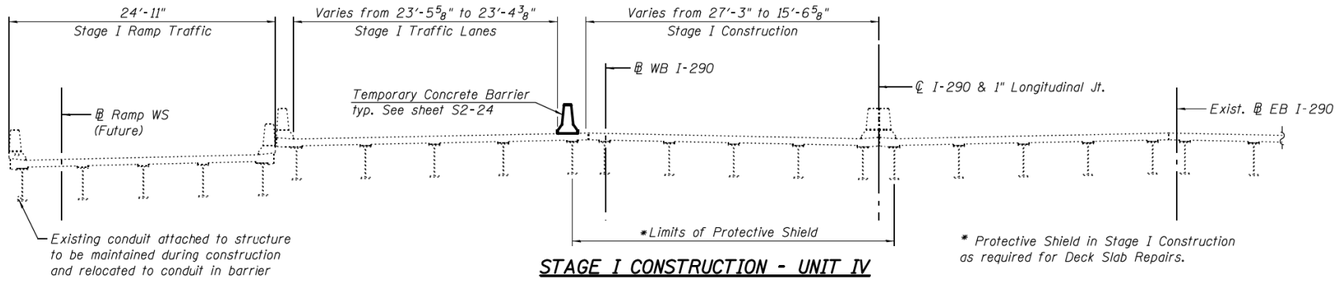
PARSONS BRINCKERHOFF	USER NAME = patold	DESIGNED - IJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS II – UNIT III STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - PJL	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	705	252
	PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-15 OF S2-145 SHEETS			ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1653
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing75 016046I-60X78-S015-S1G.dgn

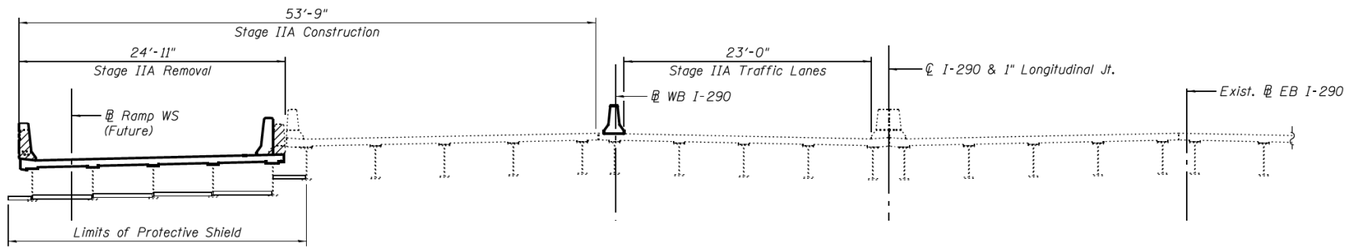
2:09:21 PM

FOR INFORMATION ONLY



STAGE I CONSTRUCTION - UNIT IV

(Looking East)



STAGE IIA REMOVAL AND CONSTRUCTION - UNIT IV

(Looking East)

SERVICE REACTION TABLE FOR TEMPORARY SHORING OF EXISTING PIERS			
Location	Pier C1	Pier C9	Pier C12
Temp. Shoring	A	B	C
D (k)	368.4	274.7	380.8
L (k)	131.6	93.7	120.9
Imp. (k)	0.0	0.0	0.0
Total (k)	500.0	368.4	501.7

SERVICE REACTION TABLE FOR TEMPORARY SHORING OF EXISTING BEAMS *						
Location	Exist. Beam at Pier C1	Pier C4 (East Side)	Pier C9 (East Side)	Pier C9 (West Side)	Pier C12 (East Side)	Pier C12 (West Side)
Temp. Shoring	D	E	F	G	H	I
D (k)	34.1	28.3	37.3	28.3	36.6	44.6
L (k)	60.6	45.4	46.4	45.4	47.1	47.4
Imp. (k)	23.4	11.8	11.5	11.8	11.2	11.1
Total (k)	118.1	85.6	95.2	85.6	94.9	103.1

* Reactions shown represent the maximum reaction for a single beam.

STAGE I CONSTRUCTION - UNIT IV

1. Install temporary concrete barrier as shown to locate construction work area on the south side of the existing structure.
2. Install temporary shoring and cribbing for existing westbound Beams 8 thru 14.
3. Repair concrete deck and reconstruct deck expansion joint at Pier C12.

STAGE IIA REMOVAL AND CONSTRUCTION - UNIT IV

1. Install Temp. Shoring and Cribbing for existing westbound Beams 1A thru 7.
2. Remove Entrance Ramp deck.
3. Repair existing cap, columns and reconstruct beam seats at Piers C13, C15 and C16.
4. Remove and Replace existing bearings at Piers C12, C13, C15 and C16.
5. Install Shear Stud Connectors to existing beams (Entrance Ramp only) and set in new bearings.
6. Construct reinforced concrete deck (Entrance Ramp only) and deck expansion joint at Pier C12.
7. Perform bridge deck grooving (Entrance Ramp only).
8. Apply protective coat for the bridge deck and parapet (Entrance Ramp only).

Notes:
Horizontal dimensions are measured perpendicular to ℄ I-290.
For quantity of Temporary Concrete Barrier, see roadway plans.

0160461-60X78-SD16-STG.dgn

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - IJL	REVISED -
		CHECKED - PJL	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -
	PLOT DATE = 4/25/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS – UNIT IV & ENTRANCE RAMP
STRUCTURE NO. 016-0461
SHEET NO. S2-16 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	293
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\13906-60X93-SXX-Existing76

2:09:29 PM

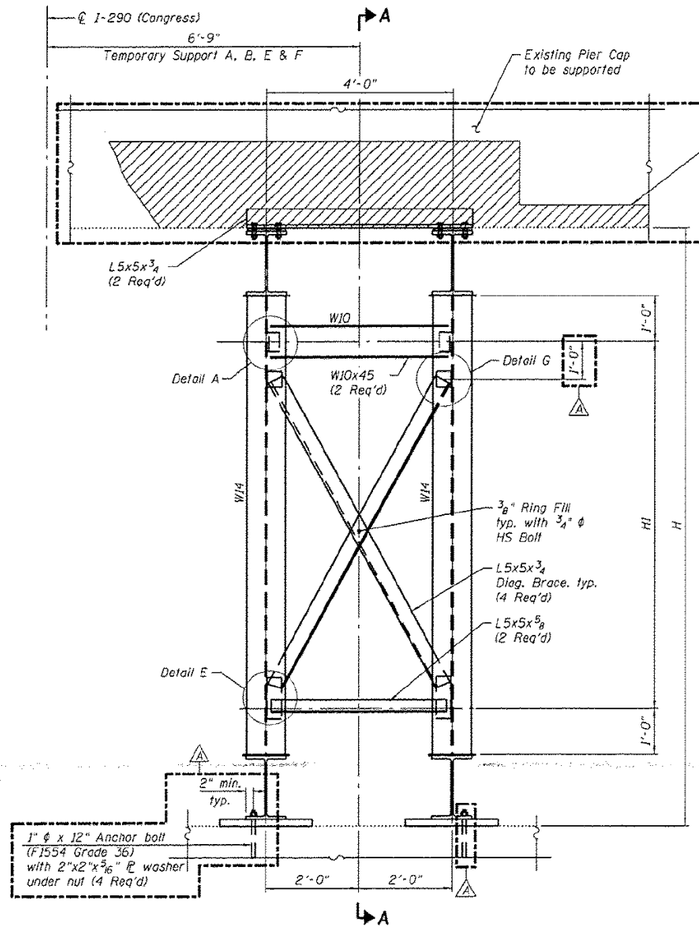
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

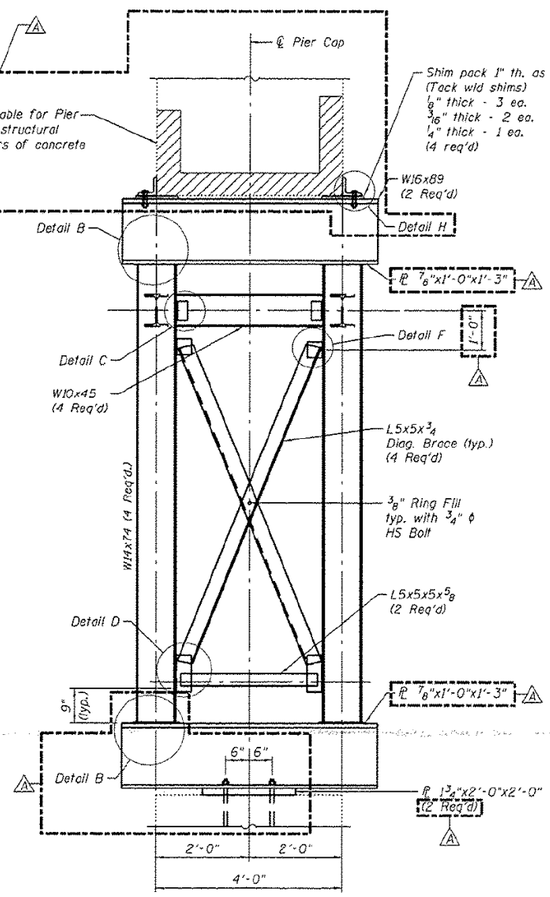
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1654
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



TEMPORARY SUPPORT ELEVATION

(Looking East)
(Temp. Support A, B, E & F shown, Temp. Support C & D similar)



SECTION A-A

* PIER CAPS STRUCTURAL REPAIR OF CONCRETE AREA (See Note 7)		
Location	WB (Sq. Ft.)	EB (Sq. Ft.)
Pier C1	±8	±89
** Pier C4	±37	±382
Pier C9	±20	±150
Pier C12	±12	±225
Total	±77	±846

* Pier cap repairs to be completed prior to placement of the temporary support system to remain in place.

** Portion of EB Pier C4 cap repair area includes repairs for adjacent contract 62876. Coordinate work with adjacent contract (62876) for location of temporary support system to remain in place.

HEIGHTS - TEMPORARY SUPPORT (TO REMAIN IN PLACE)		
Location	H	H1
Temp. Support A	±16'-2 1/4"	±11'-1 1/4"
Temp. Support B	±12'-9 7/8"	±7'-8 7/8"
Temp. Support C	±11'-11 3/4"	±6'-10 3/4"
Temp. Support D	±12'-0 3/4"	±6'-11 3/4"
Temp. Support E	±13'-0 1/2"	±7'-11 1/2"
Temp. Support F	±11'-10 3/8"	±6'-9 3/8"

Notes:

1. See sheet S2-8 thru S2-15, for locations of temporary supports.
2. See sheet S2-18, for Detail A thru Detail H.
3. All structural steel for temporary supports shall be AASHTO M270 Grade 50. Cost of structural steel included with Temporary Support System (to Remain in Place).
4. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade and diameter specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
5. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
6. The Contractor may elect to use bolted connections with oversized holes in lieu of shop welding. Prior to ordering of materials any changes to the temporary support system shall be submitted for approval of the Engineer. Details and calculations of such changes shall be prepared and sealed by an Illinois Licensed Structural Engineer.
7. Area of pier repairs shown are estimated based on inspections performed in July 2012. The Engineer shall record the actual pier repair areas in the "As Built" plans. Changes in repair areas shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity furnished at the unit bid price for the work.

LEGEND

Structural Repair of Concrete (Depth equal to or less than 5 Inches)

SERVICE REACTION TABLE FOR TEMPORARY SUPPORT SYSTEM (TO REMAIN IN PLACE)							
Location		Pier C1	Pier C4			Pier C9	Pier C12
Temp. Support		A	B	C	D	E	F
℄	(k)	280.7	213.9	58.4	265.0	242.2	285.4
4	(k)	100.3	93.6	94.0	170.3	82.7	90.6
Total	(k)	381.0	307.5	152.4	435.3	325.1	376.0

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq Ft	583
Temporary Support System (to Remain in Place)	Each	6

PARSONS BRINCKERHOFF	USER NAME = pateld	DESIGNED - CWL	REVISED - 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - DWS	REVISED -	
	PLOT SCALE = N.T.S.	DRAWN - DE	REVISED -	
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -	

TEMPORARY SUPPORT DETAILS I
STRUCTURE NO. 016-0461
SHEET NO. S2-17 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	294
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

0160461-60X78-S017-S0F.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE = N.T.S	DRAWN -	REVISED -	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

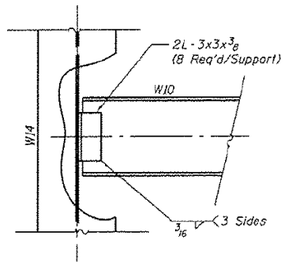
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1655
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

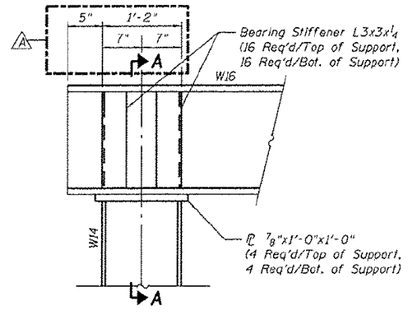
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CircleIPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\13906-60X93-SXX-Existing77

2:09:38 PM

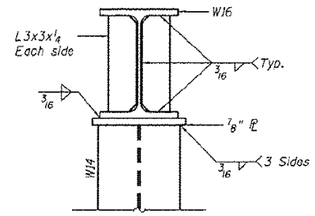
FOR INFORMATION ONLY



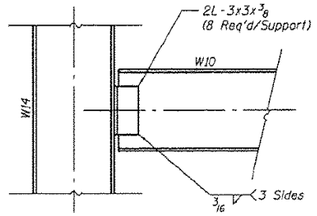
DETAIL A



DETAIL B

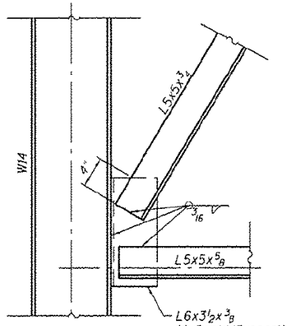


SECTION A-A

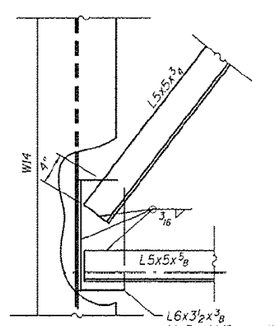


DETAIL C

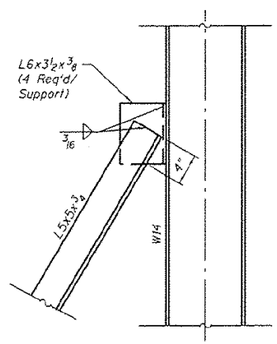
(Beam on top of column shown, Bottom similar)



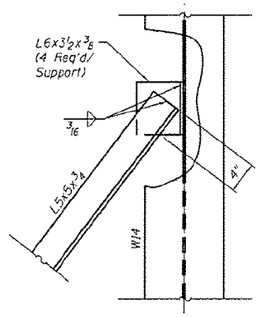
DETAIL D



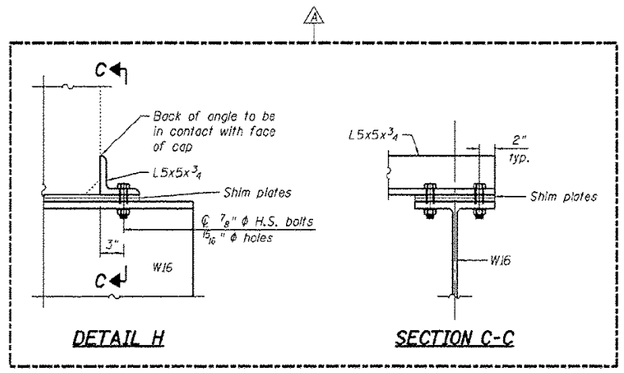
DETAIL E



DETAIL F



DETAIL G



DETAIL H

SECTION C-C

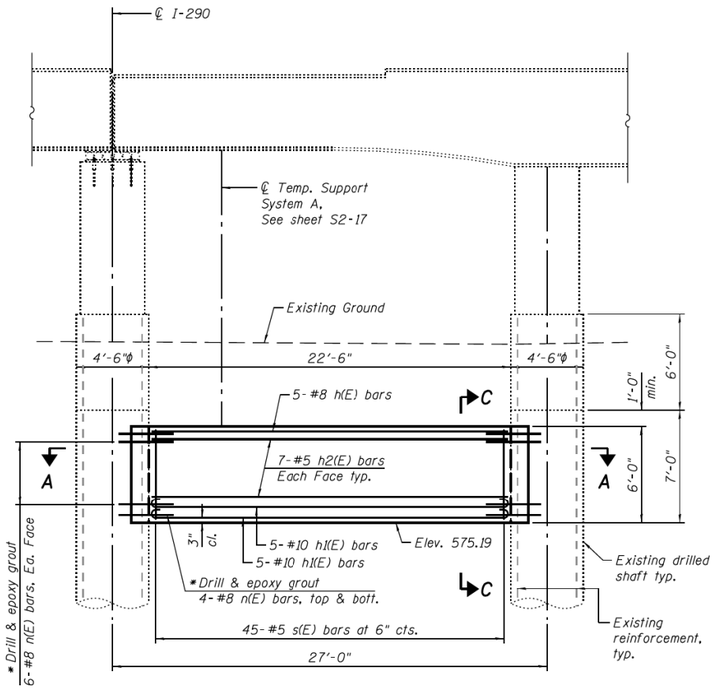
PARSONS BRINCKERHOFF	USER NAME = patold	DESIGNED - CWL	REVISED - A 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SUPPORT DETAILS II STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED - DWS	REVISED -			90/94/290	2014-004 R&B (WB)	COOK / 706 / 295
	PLOT SCALE = N.T.S.	DRAWN - DE	REVISED -					CONTRACT NO. 60X78
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-18 OF S2-145 SHEETS		ILLINOIS	FED. AID PROJECT

016D461-60X78-S018-S05.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK / 1972 / 1656
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -				ILLINOIS	FED. AID PROJECT

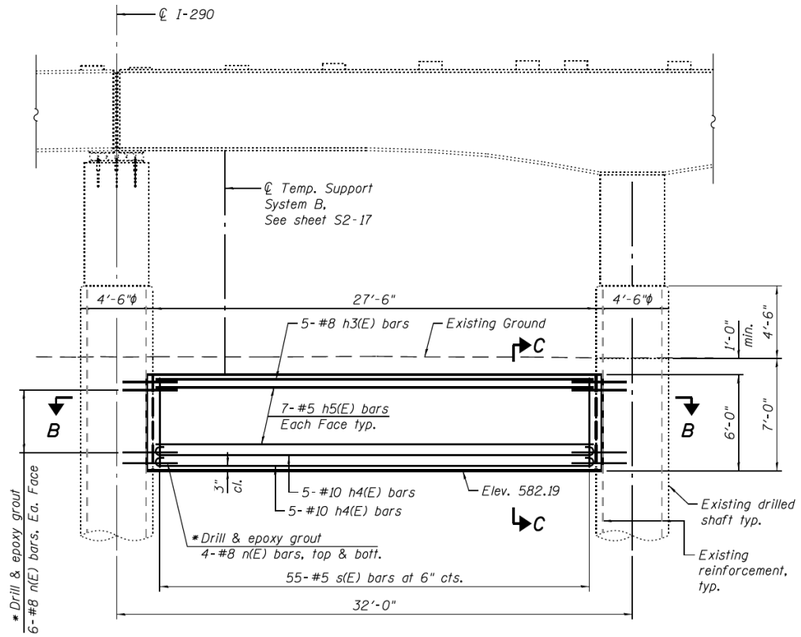
FILE NAME: pw:\\617479-PWINT.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing78
2:09:45 PM

FOR INFORMATION ONLY



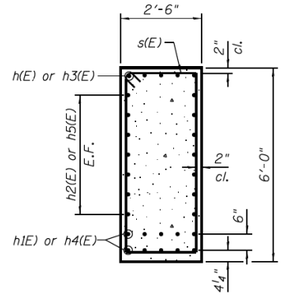
WEB WALL ELEVATION - PIER C1

(Looking East)



WEB WALL ELEVATION - PIER C4

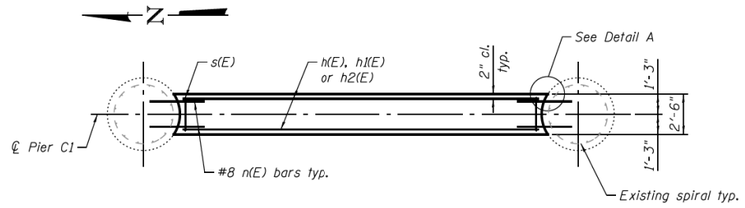
(Looking East)



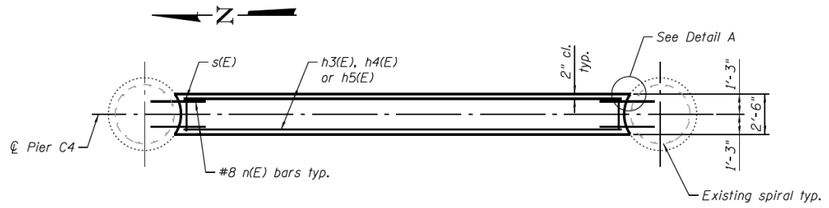
SECTION C-C

BILL OF MATERIAL

Bar	No.	SIze	Length	Shape
h(E)	5	#8	22'-3"	
h1(E)	10	#10	25'-1"	
h2(E)	14	#5	22'-3"	
h3(E)	5	#8	27'-3"	
h4(E)	10	#10	30'-1"	
h5(E)	14	#5	27'-3"	
n(E)	80	#8	3'-4"	
s(E)	100	#5	14'-5"	
Concrete Structures			Cu. Yd.	28.0
Reinforcement Bars, Epoxy Coated			Pound	5,980
Structure Excavation			Cu. Yd.	131



SECTION A-A

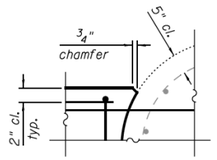


SECTION B-B

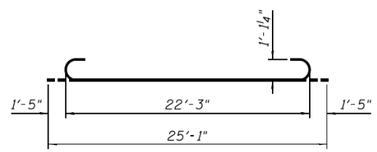
Note:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Temporary Support System (to Remain in Place).

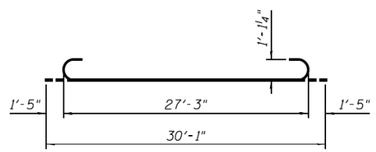
* Drill and grout bars according to Article 584 of the Std. Specs., with a minimum embedment of 1'-4", place to miss existing drilled shaft reinforcement. Cost included in the cost of Reinforcement Bars, Epoxy Coated



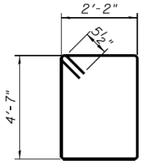
DETAIL A



h1(E) BAR



h4(E) BAR



s(E) BAR

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	
		CHECKED - PJL	REVISED -	
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SUPPORT DETAILS III
STRUCTURE NO. 016-0461
SHEET NO. S2-19 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	296
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	
		CHECKED -	REVISED -	
	PLOT SCALE = N.T.S	DRAWN -	REVISED -	
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

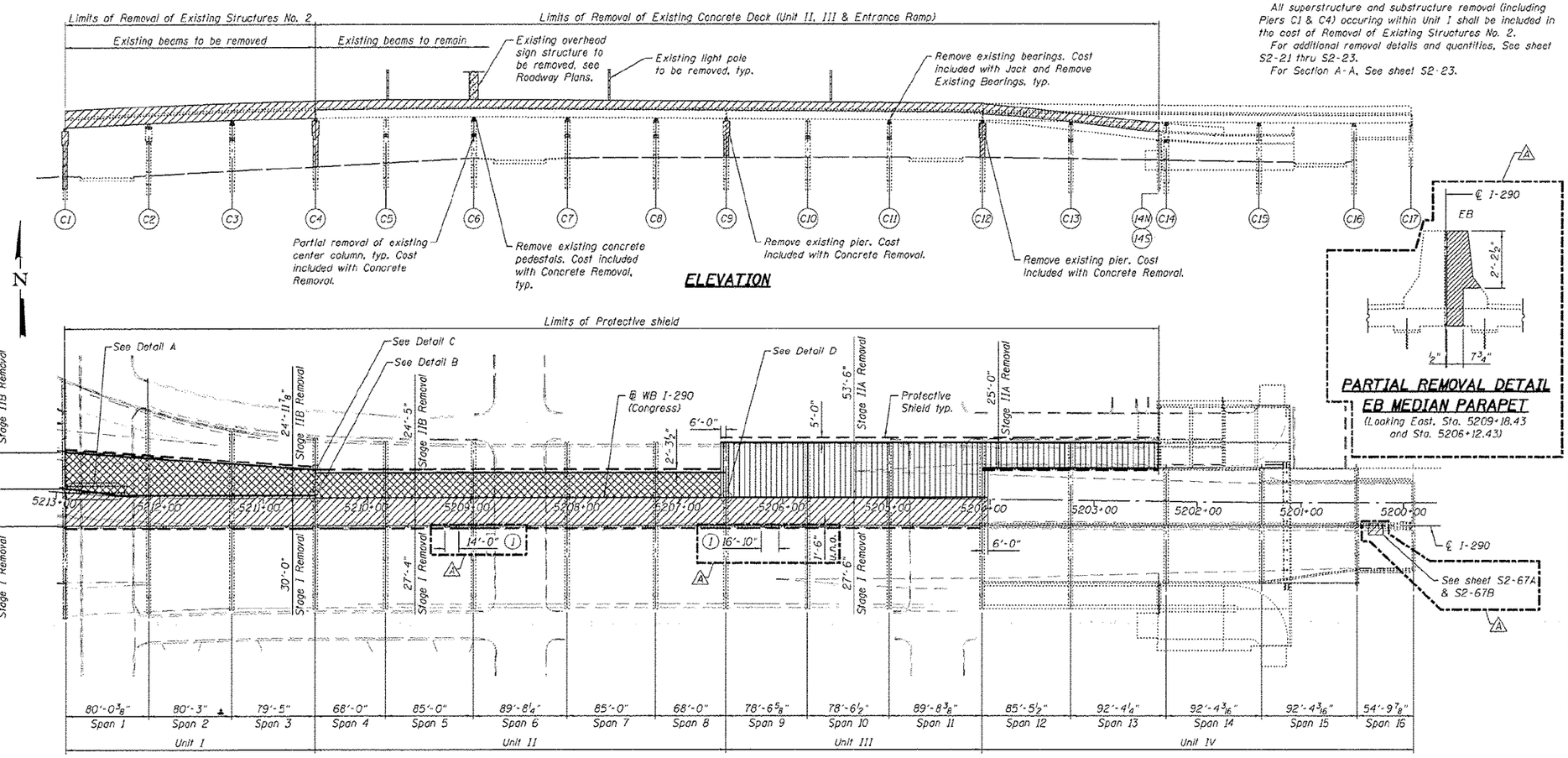
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1657
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\0171479-PWINT.aecomonline.localsAECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing79
2:09:53 PM

016046I-60X78-S019-S0R.dgn

FOR INFORMATION ONLY

Notes:
All superstructure and substructure removal (including Piers C1 & C4) occuring within Unit I shall be included in the cost of Removal of Existing Structures No. 2.
For additional removal details and quantities, See sheet S2-21 thru S2-23.
For Section A-A, See sheet S2-23.



LEGEND:

- Stage 1 Removal
- Stage 11A Removal
- Stage 11B Removal
- Protective Shield

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 2	Each	1
Removal of Existing Concrete Deck	Each	3
* Protective Shield	Sq Yd	7,713

* Protective Shield quantity includes areas for Deck Slab Repairs occurring within Unit IV.

PARSONS BRINCKERHOFF	USER NAME = patold	DESIGNED - IJL	REVISED - A 4/27/2016 JIC	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE REMOVAL DETAILS I STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - PJL	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	297
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-20 OF S2-145 SHEETS			ILLINOIS FED. AID PROJECT		

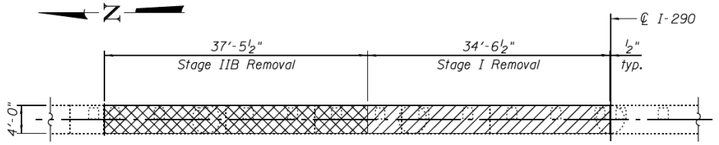
0162461-60X78-SD20-ESR.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1658
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

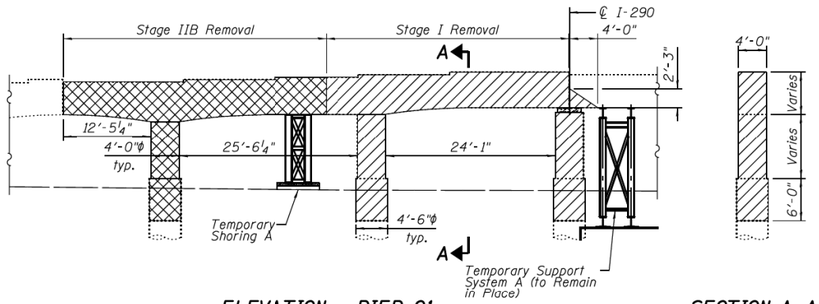
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\13906-60X93-SXX-Existing80

2:10:03 PM

FOR INFORMATION ONLY

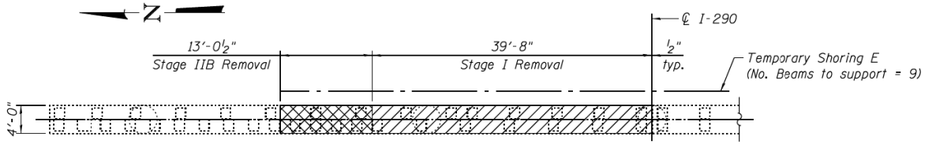


PLAN - PIER C1

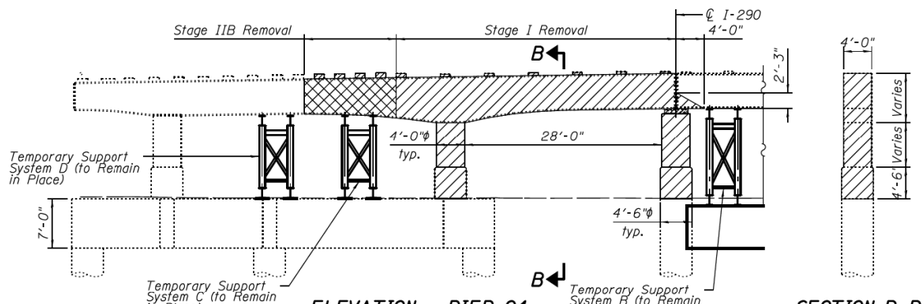


ELEVATION - PIER C1

SECTION A-A

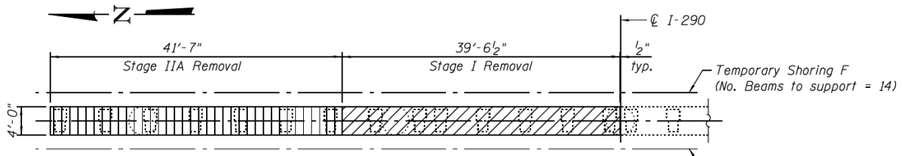


PLAN - PIER C4

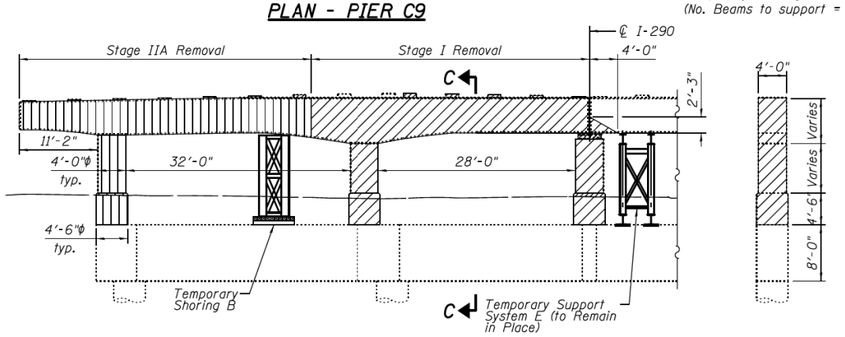


ELEVATION - PIER C4

SECTION B-B

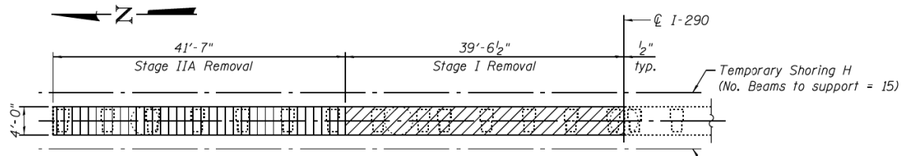


PLAN - PIER C9

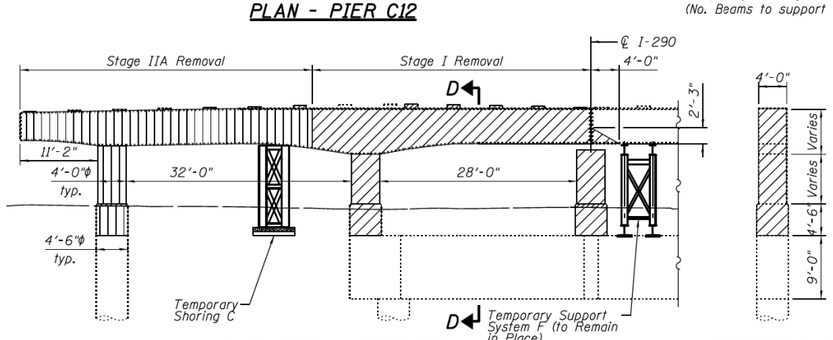


ELEVATION - PIER C9

SECTION C-C



PLAN - PIER C12



ELEVATION - PIER C12

SECTION D-D

Notes:

1. *All plan and elevation views are looking East.*
2. *See sheet S2-20, for stage removal plan.*
3. *See sheet S2-17 & S2-18, for details of Temporary Support System (to Remain in Place).*
4. *Removal of Piers C1 and C4 shall be included in the cost of Removal of Existing Structures No. 2.*
5. *Removal of Piers C9 and C12 shall be included in the cost of Concrete Removal.*
6. *Temporary Shorings A, B, and C are required to support the existing pier caps at Piers C1, C9, and C12, respectively, during Stage I Removal. Temporary Shorings D thru I are required to support existing beams affected by pier removal and reconstruction operations during each stage. See Special Provisions.*
7. *See sheet S2-16, for Temporary Shoring reactions.*

LEGEND:

- Stage I Removal
- Stage IIA Removal
- Stage IIB Removal

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	161.8
Temporary Shoring	Each	9

0160461-60X78-S021-ESR.dgn

PARSONS BRINCKERHOFF			
USER NAME = potekd	DESIGNED - IJL	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL DETAILS II
STRUCTURE NO. 016-0461
SHEET NO. S2-21 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	298
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

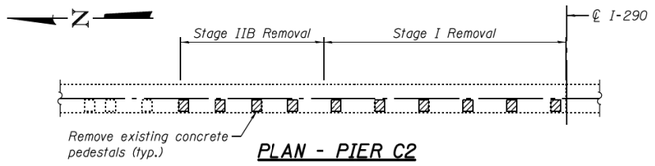
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1659
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

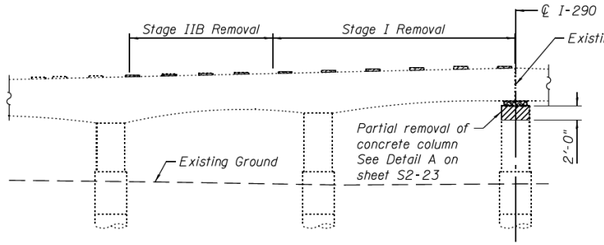
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing81

2:10:11 PM

FOR INFORMATION ONLY

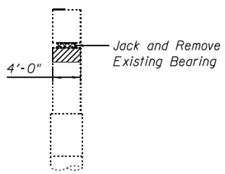


PLAN - PIER C2

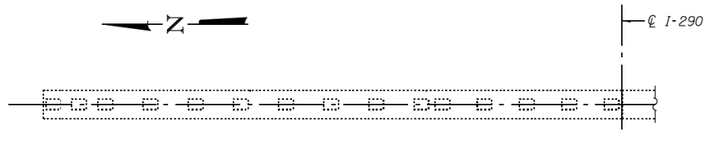


ELEVATION - PIER C2

(Looking East, Pier C3 similar)

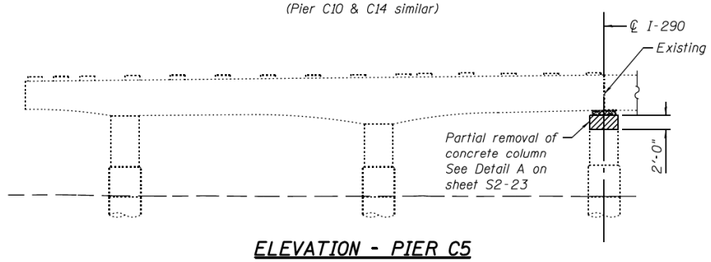


END VIEW



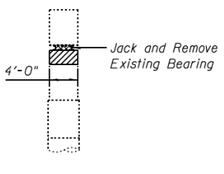
PLAN - PIER C5

(Pier C10 & C14 similar)

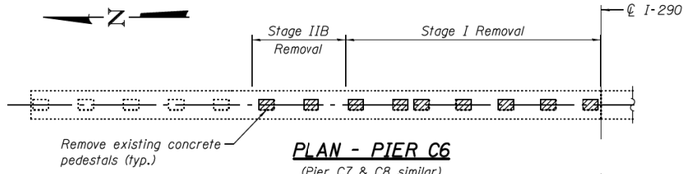


ELEVATION - PIER C5

(Looking East, Pier C10 & C14 similar)

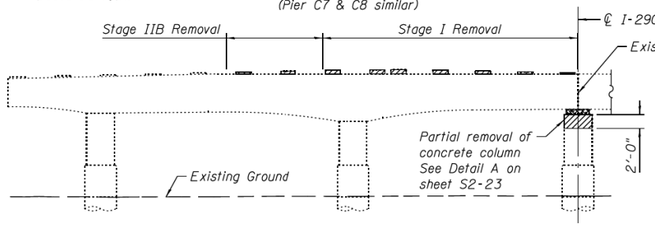


END VIEW



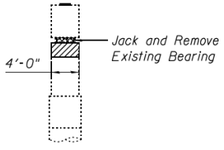
PLAN - PIER C6

(Pier C7 & C8 similar)

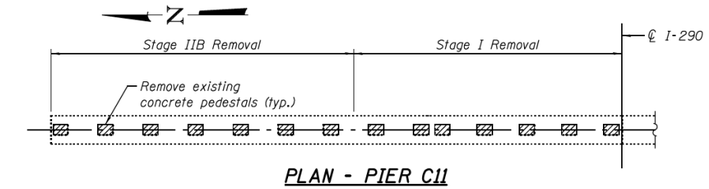


ELEVATION - PIER C6

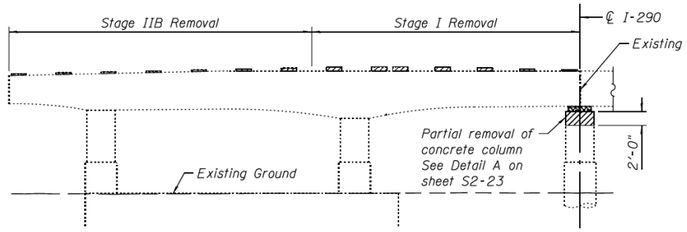
(Looking East, Pier C7 & C8 similar)



END VIEW

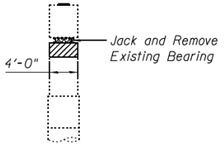


PLAN - PIER C11



ELEVATION - PIER C11

(Looking East)



END VIEW

Notes:

1. *Removal of existing concrete pedestals, top of center column, and nested bearing at Piers C2 and C3 shall be included in the cost of Removal of Existing Structures No. 2.*
2. *Removal of existing concrete pedestals and top of center column at Piers C5 through C16 shall be included in the cost of Concrete Removal.*
3. *Removal of existing nested bearings at Piers C5 through C14 shall be included in the cost of Jack and Remove Existing Bearings.*
4. *See sheet S2-22 for Detail A.*

LEGEND

Concrete Removal

Jack and Remove Existing Bearings

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	9.2
Jack and Remove Existing Bearings	Each	14

0160461-60X78-S022-ESR.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - IJL	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DE	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL DETAILS III
STRUCTURE NO. 016-0461

SHEET NO. S2-22 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	299
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

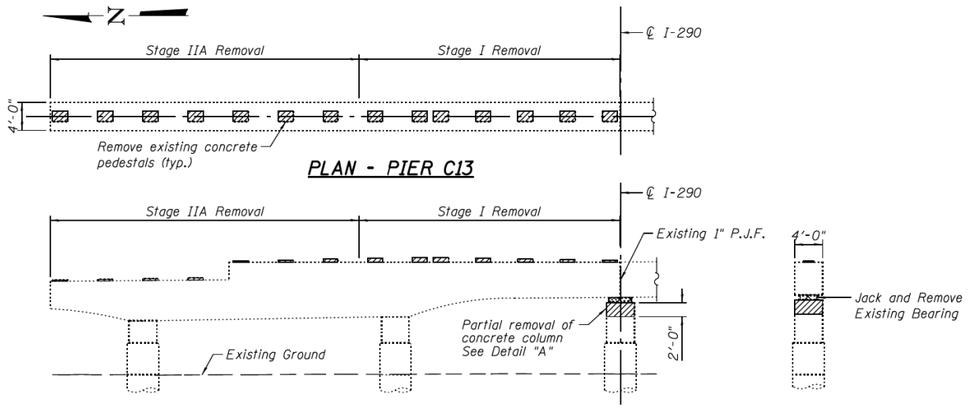
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1660
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing82

2:10:21 PM

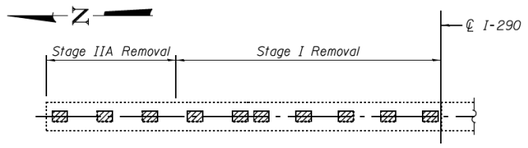
FOR INFORMATION ONLY



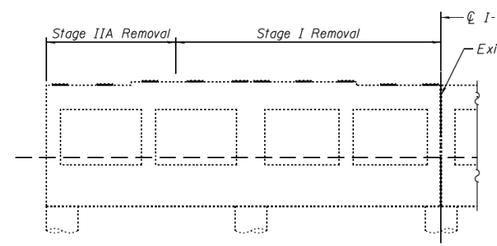
PLAN - PIER C13

ELEVATION - PIER C13
(Looking East)

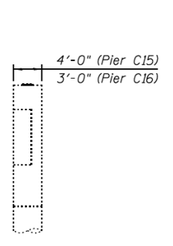
END VIEW



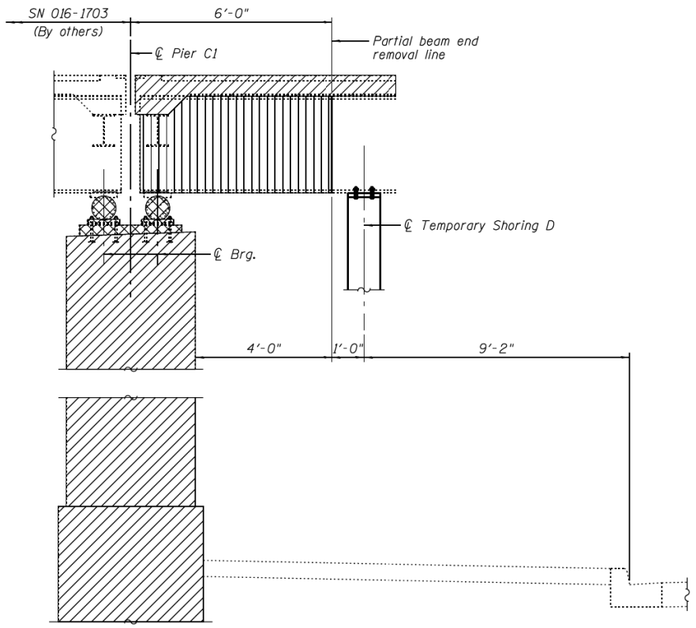
PLAN - PIER C15



ELEVATION - PIER C15
(Looking East, Pier C16 similar)



END VIEW



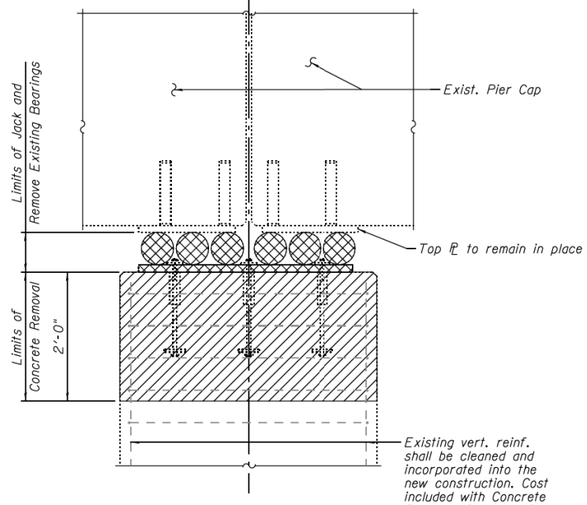
SECTION A-A

LEGEND

- Concrete Removal
- Jack and Remove Existing Bearings
- Partial Beam End Removal

Notes:

1. Partial beam end removal of existing beam as shown in Section A-A shall be included in the cost of Removal of Existing Structure No. 2.
2. Removal of existing concrete pedestals and top of center column at Piers C5 through C16 shall be included in the cost of Concrete Removal.
3. Removal of existing nested bearings at Piers C5 through C14 shall be included in the cost of Jack and Remove Existing Bearings.
4. For temporary shoring reactions see sheet, S2-16.
5. For location of section A-A, See sheet S2-20.
6. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.



DETAIL A

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.5
Jack and Remove Existing Bearings	Each	2

0160461-60X78-S023-ESR.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - IJL	REVISED -	
	CHECKED - PJL	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DE	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL DETAILS IV
STRUCTURE NO. 016-0461
SHEET NO. S2-23 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	300
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

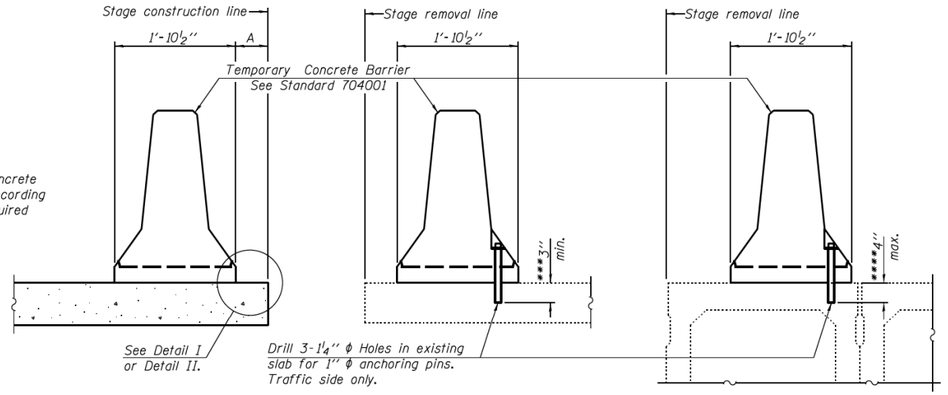
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1661
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing83
2:10:30 PM

FOR INFORMATION ONLY

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



NEW SLAB | **EXISTING SLAB** | **EXISTING DECK BEAM**

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

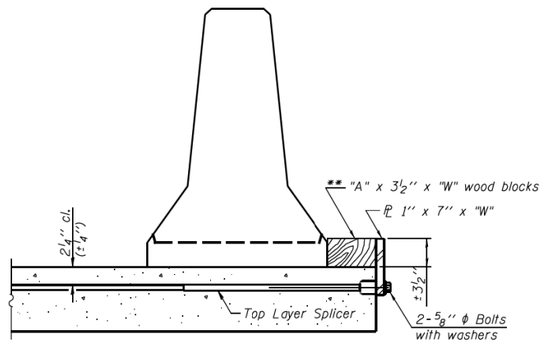
Cost of retainer assembly is included with Temporary Concrete Barrier.

The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

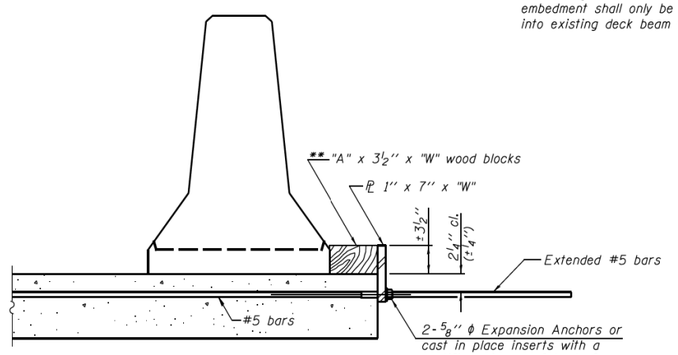
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

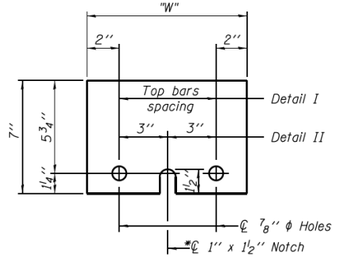
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER ℙ 1" x 7" x "W"

* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

R-27 1-12-15

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - AH	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	301
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-24 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

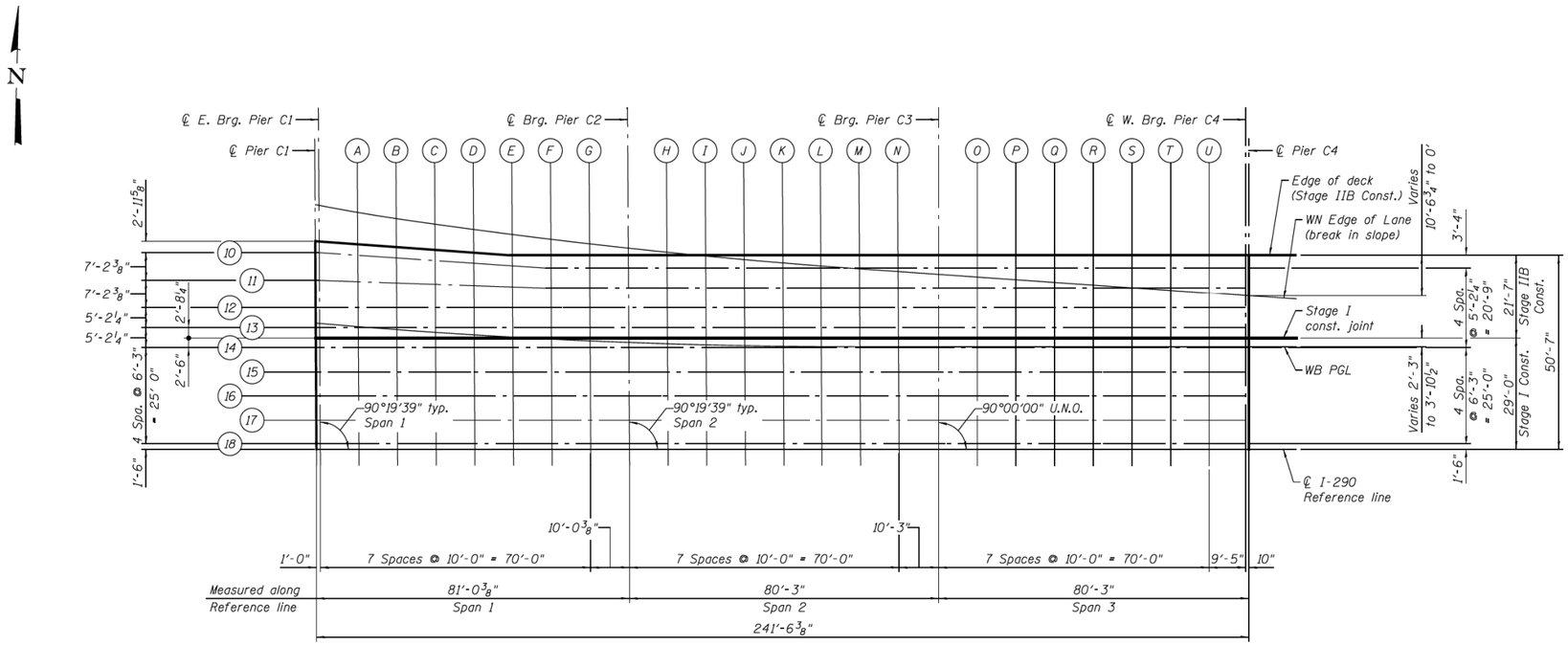
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1662
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing84

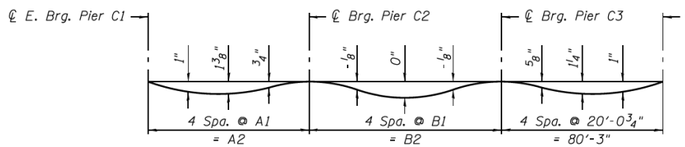
2:10:39 PM

016046I-60X78-S024-TCB.dgn

FOR INFORMATION ONLY



PLAN - UNIT I

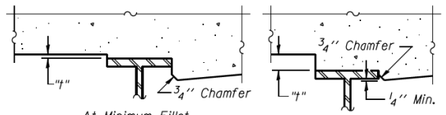


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables, see sheets S2-26 thru S2-29.

Beam No.	Span 1		Span 2	
	A1	A2	B1	B2
10	±20'-0 1/2"	80'-2 1/8"	±20'-1 5/8"	80'-6 1/4"
11	±20'-0 1/4"	80'-0 7/8"	±20'-1 1/2"	80'-5 7/8"
12	±20'-0 1/8"	80'-0 3/8"	20'-1 3/8"	80'-5 1/2"
13	±20'-0 1/8"	80'-0 3/8"	±20'-1 1/4"	80'-5 1/8"
14	±20'-0 1/8"	80'-0 3/8"	±20'-1 1/4"	80'-4 3/4"
15	±20'-0 1/8"	80'-0 3/8"	±20'-1 1/8"	80'-4 3/8"
16	±20'-0 1/8"	80'-0 3/8"	±20'-1"	80'-3 7/8"
17	±20'-0 1/8"	80'-0 3/8"	20'-0 7/8"	80'-3 1/2"
18	±20'-0 1/8"	80'-0 3/8"	±20'-0 3/4"	80'-3 1/8"



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals in tables, see sheets S2-26 thru S2-29. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets S2-26 thru S2-29, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

0160461-60X78-S025-TSE.dgn

PARSONS BRINCKERHOFF				
	USER NAME = pateld	DESIGNED - PJL	REVISED -	
		CHECKED - LFC	REVISED -	
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATION PLAN – UNIT I
STRUCTURE NO. 016-0461
SHEET NO. S2-25 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	302
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\Cl7479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing85
2:10:47 PM

HBM ENGINEERING GROUP, LLC				
	USER NAME = ahmad.issa	DESIGNED -	REVISED -	
		CHECKED -	REVISED -	
	PLOT SCALE = N.T.S	DRAWN -	REVISED -	
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1663
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

WN EDGE OF LANE (BREAK IN SLOPE)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	
℄ Pier C1 to H					③
I	1102+01.50	-16.00	609.58	609.57	
J	1101+91.55	-16.00	609.78	609.77	
K	1101+81.61	-16.00	609.96	609.96	
L	1101+71.67	-16.00	610.15	610.14	
M	1101+61.74	-16.00	610.33	610.32	
N	1101+51.72	-16.00	610.50	610.50	
℄ Brg. Pier C3	1101+41.18	-16.00	610.68	610.68	
O	1101+31.16	-16.00	610.84	610.86	②
P	1101+21.13	-16.00	610.95	611.00	
Q	1101+11.11	-16.00	611.06	611.14	
R	1101+01.09	-16.00	611.17	611.28	
S	1100+91.06	-16.00	611.28	611.38	
T	1100+81.04	-16.00	611.39	611.48	
U	1100+71.01	-16.00	611.50	611.55	
℄ W. Brg. Pier C4	1100+61.57	-16.00	611.60	611.60	
℄ Pier C4	1100+60.74	-16.00	611.61	611.61	

EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	
℄ Pier C1	5212+94.32	21.28	608.57	608.57	
℄ E. Brg. Pier C1	5212+93.30	21.29	608.58	608.58	
A	5212+83.14	21.38	608.70	608.74	
B	5212+72.97	21.40	608.81	608.90	
C	5212+62.81	21.36	608.92	609.02	
D	5212+52.64	21.26	609.02	609.14	①
E	5212+42.49	21.30	609.12	609.21	
F	5212+32.37	21.83	609.19	609.25	
G	5212+22.25	22.30	609.27	609.30	
℄ Brg. Pier C2	5212+12.08	22.70	609.35	609.35	
H	5212+01.94	23.05	609.43	609.42	
I	1102+01.52	-15.81	609.57	609.56	
J	1101+91.66	-14.89	609.73	609.72	
K	1101+81.78	-14.03	609.88	609.88	
L	1101+71.90	-13.24	610.04	610.04	
M	1101+62.00	-12.50	610.21	610.20	
N	1101+52.04	-11.80	610.37	610.36	
℄ Brg. Pier C3	1101+41.53	-11.07	610.54	610.54	
O	1101+31.55	-10.37	610.69	610.71	②
P	1101+21.58	-9.67	610.80	610.85	
Q	1101+11.60	-8.97	610.91	610.99	
R	1101+01.63	-8.28	611.01	611.11	
S	1100+91.65	-7.58	611.10	611.20	
T	1100+81.67	-6.88	611.20	611.28	
U	1100+71.70	-6.18	611.29	611.34	
℄ W. Brg. Pier C4	1100+62.30	-5.53	611.38	611.38	
℄ Pier C4	1100+61.47	-5.47	611.39	611.39	

BEAM NO. 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	
℄ Pier C1	5212+94.05	18.38	608.70	608.70	
℄ E. Brg. Pier C1	5212+93.03	18.40	608.71	608.71	
A	5212+82.89	18.56	608.83	608.87	
B	5212+72.75	18.65	608.94	609.02	
C	5212+62.61	18.69	609.04	609.14	
D	5212+52.46	18.66	609.14	609.26	
E	5212+42.32	18.56	609.24	609.33	
F	5212+32.18	18.50	609.34	609.40	①
G	5212+22.08	18.97	609.42	609.45	
℄ Brg. Pier C2	5212+11.93	19.37	609.49	609.49	
H	5212+01.82	19.72	609.58	609.57	
I	5211+91.70	20.00	609.71	609.70	
J	5211+81.58	20.22	609.86	609.85	
K	5211+71.45	20.37	610.01	610.01	
L	5211+61.33	20.47	610.16	610.16	
M	1101+61.75	-15.82	610.32	610.31	
N	1101+51.79	-15.13	610.48	610.47	
℄ Brg. Pier C3	1101+41.30	-14.39	610.64	610.64	
O	1101+31.32	-13.69	610.77	610.80	
P	1101+21.34	-13.00	610.88	610.93	
Q	1101+11.37	-12.30	610.98	611.06	②
R	1101+01.39	-11.60	611.08	611.18	
S	1100+91.42	-10.90	611.18	611.27	
T	1100+81.44	-10.21	611.27	611.36	
U	1100+71.47	-9.51	611.37	611.41	
℄ W. Brg. Pier C4	1100+62.07	-8.85	611.45	611.45	
℄ Pier C4	1100+61.24	-8.79	611.46	611.46	

BEAM NO. 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	
℄ Pier C1	5212+93.37	11.19	609.02	609.02	
℄ E. Brg. Pier C1	5212+92.36	11.24	609.03	609.03	
A	5212+82.29	11.73	609.13	609.18	
B	5212+72.22	12.16	609.23	609.31	
C	5212+62.15	12.53	609.32	609.42	
D	5212+52.06	12.84	609.40	609.51	
E	5212+41.98	13.09	609.49	609.57	
F	5212+31.89	13.32	609.57	609.63	
G	5212+21.82	13.79	609.65	609.68	
℄ Brg. Pier C2	5212+11.71	14.19	609.72	609.72	
H	5212+01.63	14.53	609.81	609.80	①
I	5211+91.54	14.81	609.93	609.92	
J	5211+81.45	15.03	610.06	610.05	
K	5211+71.36	15.19	610.19	610.19	
L	5211+61.26	15.28	610.33	610.33	
M	5211+51.17	15.31	610.47	610.46	
N	5211+41.17	15.31	610.62	610.61	
℄ Brg. Pier C3	5211+30.68	15.31	610.76	610.76	
O	5211+20.68	15.31	610.90	610.92	
P	5211+10.68	15.31	610.99	611.04	
Q	5211+00.68	15.31	611.09	611.16	
R	5210+90.68	15.31	611.18	611.28	
S	5210+80.68	15.31	611.28	611.37	
T	1100+81.08	-15.38	611.38	611.46	
U	1100+71.10	-14.58	611.48	611.52	
℄ W. Brg. Pier C4	1100+61.71	-14.03	611.56	611.56	②
℄ Pier C4	1100+60.88	-13.97	611.57	611.57	

① Elevations controlled by WB PGL

② Elevations controlled by WN PGL

③ Portion of WN Edge of Lane (break in slope) off of Bridge (future contruction)

0160461-60X78-S026-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -
		CHECKED - LFC	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS I – UNIT I
STRUCTURE NO. 016–0461
SHEET NO. S2-26 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	303
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing86

2:10:56 PM

HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1664
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

BEAM NO. 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+92.69	3.99	609.35	609.35
℄ E. Brg. Pier C1	5212+91.70	4.07	609.36	609.36
A	5212+81.70	4.90	609.44	609.48
B	5212+71.70	5.67	609.52	609.60
C	5212+61.69	6.38	609.59	609.69
D	5212+51.67	7.03	609.66	609.77
E	5212+41.64	7.62	609.73	609.82
F	5212+31.61	8.14	609.80	609.86
G	5212+21.57	8.60	609.88	609.91
℄ Brg. Pier C2	5212+11.49	9.01	609.95	609.95
H	5212+01.43	9.35	610.04	610.03
I	5211+91.38	9.63	610.14	610.13
J	5211+81.32	9.84	610.26	610.25
K	5211+71.26	10.00	610.38	610.38
L	5211+61.20	10.09	610.50	610.50
M	5211+51.14	10.13	610.63	610.62
N	5211+41.14	10.13	610.75	610.75
℄ Brg. Pier C3	5211+30.68	10.13	610.88	610.88
O	5211+20.68	10.13	611.00	611.03
P	5211+10.68	10.13	611.10	611.15
Q	5211+00.68	10.13	611.19	611.27
R	5210+90.68	10.13	611.29	611.39
S	5210+80.68	10.13	611.38	611.48
T	5210+70.68	10.13	611.48	611.56
U	5210+60.68	10.13	611.57	611.62
℄ W. Brg. Pier C4	5210+51.26	10.13	611.66	611.66
℄ Pier C4	5210+50.43	10.13	611.67	611.67

BEAM NO. 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+92.22	-1.18	609.58	609.58
℄ E. Brg. Pier C1	5212+91.22	-1.09	609.59	609.59
A	5212+81.26	-0.26	609.67	609.72
B	5212+71.29	0.50	609.75	609.83
C	5212+61.31	1.21	609.82	609.92
D	5212+51.32	1.85	609.89	610.01
E	5212+41.32	2.44	609.96	610.05
F	5212+31.32	2.96	610.03	610.09
G	5212+21.31	3.42	610.11	610.14
℄ Brg. Pier C2	5212+11.26	3.82	610.18	610.18
H	5212+01.24	4.16	610.26	610.26
I	5211+91.22	4.44	610.36	610.35
J	5211+81.20	4.66	610.46	610.45
K	5211+71.17	4.81	610.56	610.56
L	5211+61.14	4.91	610.67	610.67
M	5211+51.11	4.94	610.78	610.77
N	5211+41.11	4.94	610.89	610.88
℄ Brg. Pier C3	5211+30.68	4.94	611.00	611.00
O	5211+20.68	4.94	611.11	611.14
P	5211+10.68	4.94	611.21	611.26
Q	5211+00.68	4.94	611.30	611.38
R	5210+90.68	4.94	611.40	611.50
S	5210+80.68	4.94	611.49	611.58
T	5210+70.68	4.94	611.59	611.67
U	5210+60.68	4.94	611.68	611.72
℄ W. Brg. Pier C4	5210+51.26	4.94	611.77	611.77
℄ Pier C4	5210+50.43	4.94	611.78	611.78

STAGE I CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+91.97	-3.85	609.70	609.70
℄ E. Brg. Pier C1	5212+90.97	-3.77	609.71	609.71
A	5212+81.03	-2.94	609.79	609.84
B	5212+71.07	-2.18	609.87	609.95
C	5212+61.11	-1.47	609.94	610.04
D	5212+51.14	-0.83	610.01	610.13
E	5212+41.16	-0.24	610.08	610.17
F	5212+31.17	0.28	610.15	610.21
G	5212+21.18	0.74	610.23	610.26
℄ Brg. Pier C2	5212+11.15	1.14	610.30	610.30
H	5212+01.15	1.48	610.38	610.38
I	5211+91.14	1.75	610.47	610.46
J	5211+81.13	1.97	610.56	610.56
K	5211+71.12	2.13	610.66	610.66
L	5211+61.11	2.22	610.76	610.75
M	5211+51.09	2.25	610.86	610.85
N	5211+41.09	2.25	610.96	610.96
℄ Brg. Pier C3	5211+30.68	2.25	611.07	611.07
O	5211+20.68	2.25	611.17	611.19
P	5211+10.68	2.25	611.26	611.31
Q	5211+00.68	2.25	611.36	611.43
R	5210+90.68	2.25	611.45	611.56
S	5210+80.68	2.25	611.55	611.64
T	5210+70.68	2.25	611.64	611.73
U	5210+60.68	2.25	611.74	611.78
℄ W. Brg. Pier C4	5210+51.26	2.25	611.83	611.83
℄ Pier C4	5210+50.43	2.25	611.83	611.83

0160461-60X78-S027-TSE.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - PJL	REVISED -	
	CHECKED - LFC	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS II – UNIT I
STRUCTURE NO. 016–0461
SHEET NO. S2-27 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	304
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1665
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing87

2:11:05 PM

FOR INFORMATION ONLY

WESTBOUND PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+92.32	0.00	609.53	609.53
℄ E. Brg. Pier C1	5212+91.32	0.00	609.54	609.54
A	5212+81.28	0.00	609.66	609.70
B	5212+71.25	0.00	609.77	609.86
C	5212+61.22	0.00	609.88	609.98
D	5212+51.19	0.00	609.97	610.09
E	5212+41.17	0.00	610.07	610.16
F	5212+31.16	0.00	610.16	610.23
G	5212+21.14	0.00	610.26	610.29
℄ Brg. Pier C2	5212+11.10	0.00	610.35	610.35
H	5212+01.09	0.00	610.45	610.44
I	5211+91.09	0.00	610.54	610.53
J	5211+81.08	0.00	610.64	610.63
K	5211+71.08	0.00	610.73	610.73
L	5211+61.08	0.00	610.83	610.82
M	5211+51.08	0.00	610.92	610.91
N	5211+41.08	0.00	611.02	611.01
℄ Brg. Pier C3	5211+30.68	0.00	611.12	611.12
O	5211+20.68	0.00	611.21	611.24
P	5211+10.68	0.00	611.31	611.36
Q	5211+00.68	0.00	611.40	611.48
R	5210+90.68	0.00	611.50	611.60
S	5210+80.68	0.00	611.59	611.69
T	5210+70.68	0.00	611.69	611.77
U	5210+60.68	0.00	611.78	611.83
℄ W. Brg. Pier C4	5210+51.26	0.00	611.87	611.87
℄ Pier C4	5210+50.43	0.00	611.88	611.88

BEAM NO. 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+91.74	-6.34	609.82	609.82
℄ E. Brg. Pier C1	5212+90.75	-6.26	609.82	609.82
A	5212+80.82	-5.43	609.91	609.95
B	5212+70.88	-4.67	609.98	610.07
C	5212+60.93	-3.96	610.05	610.15
D	5212+50.97	-3.32	610.12	610.24
E	5212+41.01	-2.74	610.19	610.28
F	5212+31.03	-2.22	610.26	610.33
G	5212+21.06	-1.76	610.34	610.37
℄ Brg. Pier C2	5212+11.04	-1.36	610.41	610.41
H	5212+01.05	-1.02	610.49	610.49
I	5211+91.06	-0.74	610.58	610.57
J	5211+81.07	-0.53	610.66	610.65
K	5211+71.07	-0.37	610.75	610.75
L	5211+61.08	-0.28	610.84	610.83
M	5211+51.08	-0.25	610.93	610.92
N	5211+41.08	-0.25	611.03	611.02
℄ Brg. Pier C3	5211+30.68	-0.25	611.12	611.12
O	5211+20.68	-0.25	611.22	611.24
P	5211+10.68	-0.25	611.31	611.36
Q	5211+00.68	-0.25	611.41	611.48
R	5210+90.68	-0.25	611.50	611.61
S	5210+80.68	-0.25	611.60	611.69
T	5210+70.68	-0.25	611.69	611.78
U	5210+60.68	-0.25	611.79	611.83
℄ W. Brg. Pier C4	5210+51.26	-0.25	611.88	611.88
℄ Pier C4	5210+50.43	-0.25	611.88	611.88

BEAM NO. 15

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+91.17	-12.57	610.10	610.10
℄ E. Brg. Pier C1	5212+90.18	-12.48	610.11	610.11
A	5212+80.29	-11.66	610.19	610.23
B	5212+70.39	-10.90	610.26	610.35
C	5212+60.47	-10.20	610.33	610.43
D	5212+50.55	-9.56	610.40	610.51
E	5212+40.63	-8.98	610.47	610.56
F	5212+30.69	-8.46	610.54	610.60
G	5212+20.75	-8.00	610.61	610.65
℄ Brg. Pier C2	5212+10.78	-7.60	610.69	610.69
H	5212+00.83	-7.27	610.77	610.77
I	5211+90.87	-6.99	610.84	610.83
J	5211+80.92	-6.78	610.90	610.90
K	5211+70.96	-6.62	610.97	610.97
L	5211+61.00	-6.53	611.04	611.04
M	5211+51.04	-6.50	611.12	611.11
N	5211+41.04	-6.50	611.19	611.19
℄ Brg. Pier C3	5211+30.68	-6.50	611.27	611.27
O	5211+20.68	-6.50	611.35	611.37
P	5211+10.68	-6.50	611.42	611.47
Q	5211+00.68	-6.50	611.50	611.57
R	5210+90.68	-6.50	611.58	611.68
S	5210+80.68	-6.50	611.67	611.77
T	5210+70.68	-6.50	611.77	611.85
U	5210+60.68	-6.50	611.86	611.91
℄ W. Brg. Pier C4	5210+51.26	-6.50	611.95	611.95
℄ Pier C4	5210+50.43	-6.50	611.96	611.96

0160461-60X78-S028-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS III – UNIT I STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - LFC	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	305
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-28 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1666
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing88

2:11:15 PM

FOR INFORMATION ONLY

BEAM NO. 16

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+90.60	-18.79	610.38	610.38
℄ E. Brg. Pier C1	5212+89.62	-18.71	610.39	610.39
A	5212+79.76	-17.89	610.47	610.51
B	5212+69.90	-17.13	610.54	610.62
C	5212+60.02	-16.43	610.61	610.71
D	5212+50.14	-15.79	610.68	610.79
E	5212+40.25	-15.22	610.75	610.84
F	5212+30.36	-14.70	610.82	610.88
G	5212+20.45	-14.24	610.89	610.92
℄ Brg. Pier C2	5212+10.51	-13.85	610.97	610.97
H	5212+00.60	-13.51	611.05	611.04
I	5211+90.69	-13.24	611.09	611.08
J	5211+80.77	-13.03	611.14	611.14
K	5211+70.85	-12.87	611.19	611.19
L	5211+60.93	-12.78	611.24	611.24
M	5211+51.01	-12.75	611.30	611.29
N	5211+41.01	-12.75	611.36	611.35
℄ Brg. Pier C3	5211+30.68	-12.75	611.42	611.42
O	5211+20.68	-12.75	611.47	611.50
P	5211+10.68	-12.75	611.53	611.58
Q	5211+00.68	-12.75	611.59	611.66
R	5210+90.68	-12.75	611.66	611.76
S	5210+80.68	-12.75	611.76	611.85
T	5210+70.68	-12.75	611.85	611.93
U	5210+60.68	-12.75	611.95	611.99
℄ W. Brg. Pier C4	5210+51.26	-12.75	612.03	612.03
℄ Pier C4	5210+50.43	-12.75	612.04	612.04

BEAM NO. 17

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+90.04	-25.02	610.66	610.66
℄ E. Brg. Pier C1	5212+89.06	-24.93	610.67	610.67
A	5212+79.24	-24.12	610.75	610.79
B	5212+69.41	-23.36	610.82	610.90
C	5212+59.58	-22.67	610.89	610.99
D	5212+49.73	-22.03	610.96	611.07
E	5212+39.88	-21.46	611.03	611.11
F	5212+30.02	-20.94	611.10	611.16
G	5212+20.16	-20.49	611.17	611.20
℄ Brg. Pier C2	5212+10.25	-20.09	611.25	611.25
H	5212+00.38	-19.76	611.33	611.32
I	5211+90.50	-19.49	611.35	611.34
J	5211+80.62	-19.27	611.38	611.38
K	5211+70.74	-19.12	611.41	611.41
L	5211+60.85	-19.03	611.45	611.44
M	5211+50.97	-19.00	611.48	611.47
N	5211+40.97	-19.00	611.52	611.52
℄ Brg. Pier C3	5211+30.68	-19.00	611.56	611.56
O	5211+20.68	-19.00	611.60	611.62
P	5211+10.68	-19.00	611.64	611.69
Q	5211+00.68	-19.00	611.67	611.75
R	5210+90.68	-19.00	611.75	611.85
S	5210+80.68	-19.00	611.84	611.93
T	5210+70.68	-19.00	611.94	612.02
U	5210+60.68	-19.00	612.03	612.07
℄ W. Brg. Pier C4	5210+51.26	-19.00	612.12	612.12
℄ Pier C4	5210+50.43	-19.00	612.13	612.13

BEAM NO. 18

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C1	5212+89.49	-31.24	610.94	610.94
℄ E. Brg. Pier C1	5212+88.51	-31.16	610.95	610.95
A	5212+78.73	-30.34	611.03	611.07
B	5212+68.93	-29.59	611.10	611.18
C	5212+59.13	-28.90	611.17	611.27
D	5212+49.33	-28.27	611.24	611.35
E	5212+39.51	-27.69	611.30	611.39
F	5212+29.69	-27.18	611.37	611.44
G	5212+19.86	-26.73	611.45	611.48
℄ Brg. Pier C2	5212+09.99	-26.34	611.52	611.52
H	5212+00.16	-26.00	611.60	611.60
I	5211+90.32	-25.73	611.61	611.60
J	5211+80.47	-25.52	611.62	611.62
K	5211+70.63	-25.37	611.63	611.63
L	5211+60.78	-25.28	611.65	611.64
M	5211+50.93	-25.25	611.67	611.66
N	5211+40.93	-25.25	611.69	611.68
℄ Brg. Pier C3	5211+30.68	-25.25	611.71	611.71
O	5211+20.68	-25.25	611.73	611.75
P	5211+10.68	-25.25	611.74	611.80
Q	5211+00.68	-25.25	611.76	611.84
R	5210+90.68	-25.25	611.83	611.94
S	5210+80.68	-25.25	611.93	612.02
T	5210+70.68	-25.25	612.02	612.10
U	5210+60.68	-25.25	612.12	612.16
℄ W. Brg. Pier C4	5210+51.26	-25.25	612.21	612.21
℄ Pier C4	5210+50.43	-25.25	612.21	612.21

0160461-60X78-S029-TSE.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - PJL	REVISED -	
	CHECKED - LFC	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS IV – UNIT I
STRUCTURE NO. 016–0461
SHEET NO. S2-29 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	306
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

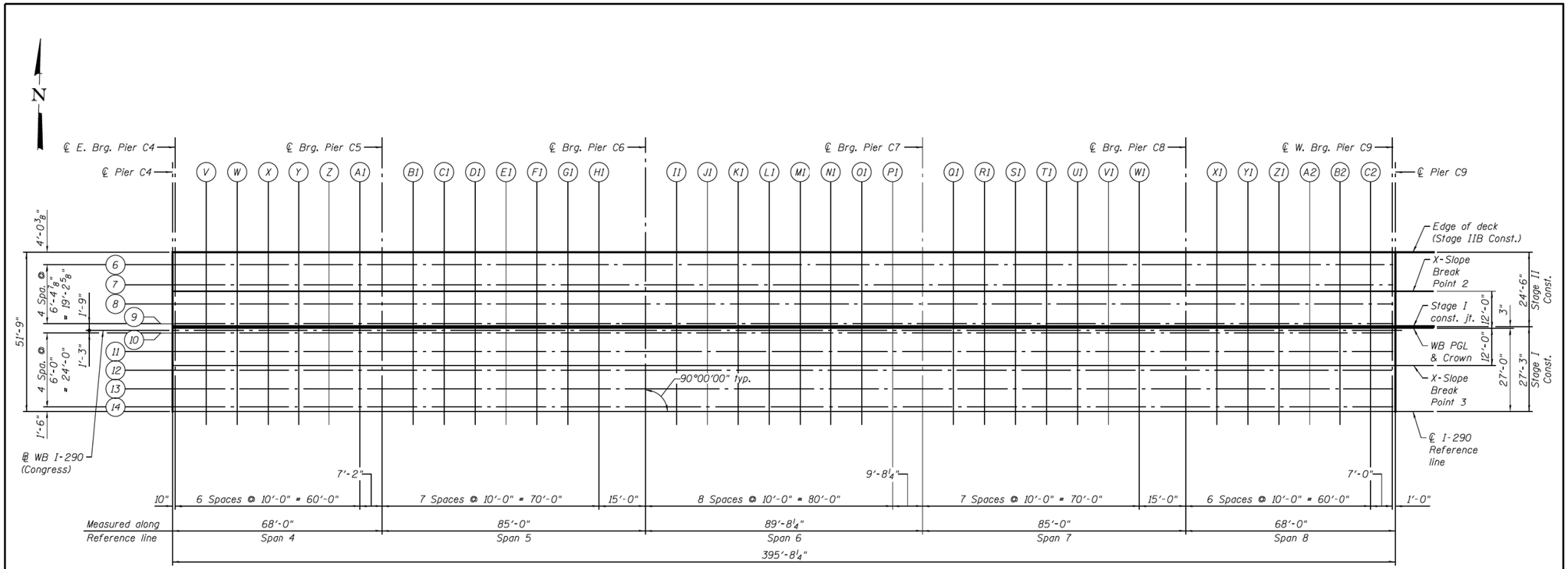
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1667
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

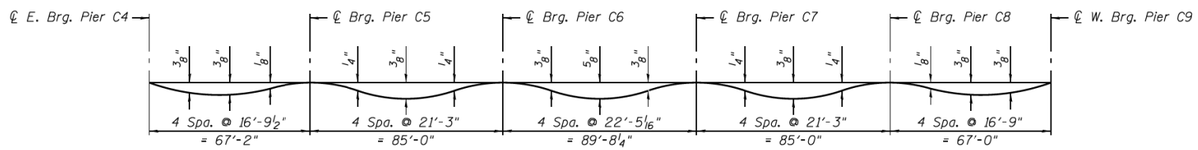
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing89

2:11:23 PM

FOR INFORMATION ONLY



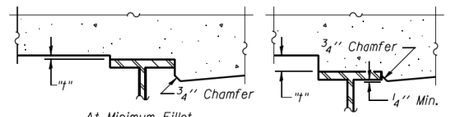
PLAN - UNIT II



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables, see sheets S2-31 thru S2-35.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals in tables, see sheets S2-31 thru S2-35. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets S2-31 thru S2-35, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

0160461-60X78-SD30-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = pateld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATION PLAN – UNIT II	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -		STRUCTURE NO. 016-0461	90/94/290	2014-004 R&B (WB)	COOK	706	307
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-30 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1668
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NAIDocuments\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing90
2:11:33 PM

FOR INFORMATION ONLY

EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	25.00	611.35	611.35
℄ E. Brg. Pier C4	5210+49.60	25.00	611.37	611.37
V	5210+39.60	25.00	611.52	611.54
W	5210+29.60	25.00	611.65	611.68
X	5210+19.60	25.00	611.78	611.81
Y	5210+09.60	25.00	611.88	611.91
Z	5209+99.60	25.00	611.98	611.99
A1	5209+89.60	25.00	612.05	612.05
℄ Brg. Pier C5	5209+82.43	25.00	612.09	612.09
B1	5209+72.43	25.00	612.15	612.16
C1	5209+62.43	25.00	612.22	612.24
D1	5209+52.43	25.00	612.28	612.31
E1	5209+42.43	25.00	612.34	612.37
F1	5209+32.43	25.00	612.39	612.42
G1	5209+22.43	25.00	612.44	612.46
H1	5209+12.43	25.00	612.48	612.49
℄ Brg. Pier C6	5208+97.43	25.00	612.51	612.51
I1	5208+87.43	25.00	612.56	612.57
J1	5208+77.43	25.00	612.58	612.61
K1	5208+67.43	25.00	612.61	612.65
L1	5208+57.43	25.00	612.64	612.69
M1	5208+47.43	25.00	612.66	612.71
N1	5208+37.43	25.00	612.67	612.71
O1	5208+27.43	25.00	612.66	612.69
P1	5208+17.43	25.00	612.64	612.66
℄ Brg. Pier C7	5208+07.74	25.00	612.63	612.63
Q1	5207+97.74	25.00	612.62	612.63
R1	5207+87.74	25.00	612.60	612.62
S1	5207+77.74	25.00	612.58	612.60
T1	5207+67.74	25.00	612.56	612.59
U1	5207+57.74	25.00	612.53	612.56
V1	5207+47.74	25.00	612.51	612.53
W1	5207+37.74	25.00	612.46	612.48
℄ Brg. Pier C8	5207+22.74	25.00	612.40	612.40
X1	5207+12.74	25.00	612.37	612.38
Y1	5207+02.74	25.00	612.34	612.35
Z1	5206+92.74	25.00	612.31	612.34
A2	5206+82.74	25.00	612.29	612.32
B2	5206+72.74	25.00	612.26	612.29
C2	5206+62.74	25.00	612.23	612.24
℄ W. Brg. Pier C9	5206+55.74	25.00	612.20	612.20
℄ Pier C9	5206+54.74	25.00	612.20	612.20

BEAM NO. 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	20.97	611.44	611.44
℄ E. Brg. Pier C4	5210+49.60	20.97	611.45	611.45
V	5210+39.60	20.97	611.60	611.62
W	5210+29.60	20.97	611.73	611.76
X	5210+19.60	20.97	611.85	611.88
Y	5210+09.60	20.97	611.96	611.98
Z	5209+99.60	20.97	612.05	612.06
A1	5209+89.60	20.97	612.12	612.12
℄ Brg. Pier C5	5209+82.43	20.97	612.16	612.16
B1	5209+72.43	20.97	612.23	612.23
C1	5209+62.43	20.97	612.29	612.31
D1	5209+52.43	20.97	612.35	612.38
E1	5209+42.43	20.97	612.41	612.44
F1	5209+32.43	20.97	612.46	612.49
G1	5209+22.43	20.97	612.51	612.53
H1	5209+12.43	20.97	612.55	612.56
℄ Brg. Pier C6	5208+97.43	20.97	612.58	612.58
I1	5208+87.43	20.97	612.63	612.64
J1	5208+77.43	20.97	612.66	612.68
K1	5208+67.43	20.97	612.68	612.72
L1	5208+57.43	20.97	612.71	612.76
M1	5208+47.43	20.97	612.73	612.78
N1	5208+37.43	20.97	612.74	612.78
O1	5208+27.43	20.97	612.73	612.76
P1	5208+17.43	20.97	612.71	612.73
℄ Brg. Pier C7	5208+07.74	20.97	612.70	612.70
Q1	5207+97.74	20.97	612.69	612.70
R1	5207+87.74	20.97	612.67	612.69
S1	5207+77.74	20.97	612.65	612.67
T1	5207+67.74	20.97	612.63	612.66
U1	5207+57.74	20.97	612.60	612.63
V1	5207+47.74	20.97	612.58	612.60
W1	5207+37.74	20.97	612.54	612.55
℄ Brg. Pier C8	5207+22.74	20.97	612.48	612.48
X1	5207+12.74	20.97	612.45	612.46
Y1	5207+02.74	20.97	612.42	612.44
Z1	5206+92.74	20.97	612.39	612.42
A2	5206+82.74	20.97	612.37	612.40
B2	5206+72.74	20.97	612.35	612.38
C2	5206+62.74	20.97	612.31	612.33
℄ W. Brg. Pier C9	5206+55.74	20.97	612.29	612.29
℄ Pier C9	5206+54.74	20.97	612.28	612.28

BEAM NO. 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	14.56	611.56	611.56
℄ E. Brg. Pier C4	5210+49.60	14.56	611.58	611.58
V	5210+39.60	14.56	611.72	611.74
W	5210+29.60	14.56	611.85	611.88
X	5210+19.60	14.56	611.97	612.00
Y	5210+09.60	14.56	612.07	612.09
Z	5209+99.60	14.56	612.16	612.17
A1	5209+89.60	14.56	612.23	612.23
℄ Brg. Pier C5	5209+82.43	14.56	612.27	612.27
B1	5209+72.43	14.56	612.34	612.35
C1	5209+62.43	14.56	612.40	612.42
D1	5209+52.43	14.56	612.47	612.49
E1	5209+42.43	14.56	612.53	612.56
F1	5209+32.43	14.56	612.58	612.60
G1	5209+22.43	14.56	612.62	612.65
H1	5209+12.43	14.56	612.66	612.67
℄ Brg. Pier C6	5208+97.43	14.56	612.70	612.70
I1	5208+87.43	14.56	612.74	612.76
J1	5208+77.43	14.56	612.77	612.80
K1	5208+67.43	14.56	612.79	612.83
L1	5208+57.43	14.56	612.82	612.87
M1	5208+47.43	14.56	612.85	612.89
N1	5208+37.43	14.56	612.86	612.89
O1	5208+27.43	14.56	612.84	612.87
P1	5208+17.43	14.56	612.83	612.84
℄ Brg. Pier C7	5208+07.74	14.56	612.81	612.81
Q1	5207+97.74	14.56	612.80	612.81
R1	5207+87.74	14.56	612.78	612.80
S1	5207+77.74	14.56	612.76	612.79
T1	5207+67.74	14.56	612.74	612.77
U1	5207+57.74	14.56	612.71	612.74
V1	5207+47.74	14.56	612.69	612.71
W1	5207+37.74	14.56	612.66	612.68
℄ Brg. Pier C8	5207+22.74	14.56	612.62	612.62
X1	5207+12.74	14.56	612.59	612.59
Y1	5207+02.74	14.56	612.56	612.57
Z1	5206+92.74	14.56	612.53	612.55
A2	5206+82.74	14.56	612.50	612.53
B2	5206+72.74	14.56	612.48	612.51
C2	5206+62.74	14.56	612.45	612.46
℄ W. Brg. Pier C9	5206+55.74	14.56	612.42	612.42
℄ Pier C9	5206+54.74	14.56	612.42	612.42

0160461-60X78-S031-TSE.dgn

PARSONS BRINCKERHOFF			
USER NAME = potald	DESIGNED - PJL	REVISED -	
	CHECKED - JZ	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS I – UNIT II
STRUCTURE NO. 016–0461
SHEET NO. S2-31 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	308
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1669
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing91
2:11:42 PM

FOR INFORMATION ONLY

CROSS SLOPE BREAK POINT 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	12.25	611.61	611.61
℄ E. Brg. Pier C4	5210+49.60	12.25	611.62	611.62
V	5210+39.60	12.25	611.77	611.79
W	5210+29.60	12.25	611.89	611.92
X	5210+19.60	12.25	612.01	612.05
Y	5210+09.60	12.25	612.11	612.14
Z	5209+99.60	12.25	612.20	612.21
A1	5209+89.60	12.25	612.27	612.27
℄ Brg. Pier C5	5209+82.43	12.25	612.31	612.31
B1	5209+72.43	12.25	612.38	612.39
C1	5209+62.43	12.25	612.44	612.46
D1	5209+52.43	12.25	612.51	612.53
E1	5209+42.43	12.25	612.57	612.60
F1	5209+32.43	12.25	612.62	612.64
G1	5209+22.43	12.25	612.66	612.69
H1	5209+12.43	12.25	612.70	612.71
℄ Brg. Pier C6	5208+97.43	12.25	612.74	612.74
I1	5208+87.43	12.25	612.78	612.80
J1	5208+77.43	12.25	612.81	612.84
K1	5208+67.43	12.25	612.83	612.87
L1	5208+57.43	12.25	612.86	612.91
M1	5208+47.43	12.25	612.89	612.93
N1	5208+37.43	12.25	612.90	612.93
O1	5208+27.43	12.25	612.88	612.91
P1	5208+17.43	12.25	612.87	612.88
℄ Brg. Pier C7	5208+07.74	12.25	612.85	612.85
Q1	5207+97.74	12.25	612.84	612.85
R1	5207+87.74	12.25	612.82	612.84
S1	5207+77.74	12.25	612.80	612.83
T1	5207+67.74	12.25	612.78	612.81
U1	5207+57.74	12.25	612.76	612.78
V1	5207+47.74	12.25	612.73	612.75
W1	5207+37.74	12.25	612.71	612.72
℄ Brg. Pier C8	5207+22.74	12.25	612.66	612.66
X1	5207+12.74	12.25	612.64	612.64
Y1	5207+02.74	12.25	612.60	612.62
Z1	5206+92.74	12.25	612.57	612.60
A2	5206+82.74	12.25	612.55	612.58
B2	5206+72.74	12.25	612.53	612.56
C2	5206+62.74	12.25	612.50	612.51
℄ W. Brg. Pier C9	5206+55.74	12.25	612.47	612.47
℄ Pier C9	5206+54.74	12.25	612.46	612.46

BEAM NO. 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	8.16	611.69	611.69
℄ E. Brg. Pier C4	5210+49.60	8.16	611.71	611.71
V	5210+39.60	8.16	611.85	611.87
W	5210+29.60	8.16	611.96	612.00
X	5210+19.60	8.16	612.08	612.11
Y	5210+09.60	8.16	612.17	612.19
Z	5209+99.60	8.16	612.25	612.26
A1	5209+89.60	8.16	612.32	612.32
℄ Brg. Pier C5	5209+82.43	8.16	612.37	612.37
B1	5209+72.43	8.16	612.43	612.44
C1	5209+62.43	8.16	612.49	612.51
D1	5209+52.43	8.16	612.56	612.58
E1	5209+42.43	8.16	612.62	612.65
F1	5209+32.43	8.16	612.67	612.70
G1	5209+22.43	8.16	612.72	612.74
H1	5209+12.43	8.16	612.75	612.77
℄ Brg. Pier C6	5208+97.43	8.16	612.79	612.79
I1	5208+87.43	8.16	612.82	612.84
J1	5208+77.43	8.16	612.85	612.88
K1	5208+67.43	8.16	612.88	612.92
L1	5208+57.43	8.16	612.90	612.95
M1	5208+47.43	8.16	612.93	612.98
N1	5208+37.43	8.16	612.94	612.98
O1	5208+27.43	8.16	612.92	612.95
P1	5208+17.43	8.16	612.91	612.92
℄ Brg. Pier C7	5208+07.74	8.16	612.90	612.90
Q1	5207+97.74	8.16	612.88	612.89
R1	5207+87.74	8.16	612.87	612.89
S1	5207+77.74	8.16	612.84	612.87
T1	5207+67.74	8.16	612.82	612.85
U1	5207+57.74	8.16	612.80	612.83
V1	5207+47.74	8.16	612.77	612.80
W1	5207+37.74	8.16	612.75	612.76
℄ Brg. Pier C8	5207+22.74	8.16	612.71	612.71
X1	5207+12.74	8.16	612.68	612.68
Y1	5207+02.74	8.16	612.65	612.66
Z1	5206+92.74	8.16	612.62	612.64
A2	5206+82.74	8.16	612.59	612.62
B2	5206+72.74	8.16	612.57	612.60
C2	5206+62.74	8.16	612.54	612.55
℄ W. Brg. Pier C9	5206+55.74	8.16	612.51	612.51
℄ Pier C9	5206+54.74	8.16	612.51	612.51

BEAM NO. 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	1.75	611.83	611.83
℄ E. Brg. Pier C4	5210+49.60	1.75	611.84	611.84
V	5210+39.60	1.75	611.97	611.99
W	5210+29.60	1.75	612.08	612.11
X	5210+19.60	1.75	612.18	612.21
Y	5210+09.60	1.75	612.26	612.29
Z	5209+99.60	1.75	612.33	612.34
A1	5209+89.60	1.75	612.40	612.40
℄ Brg. Pier C5	5209+82.43	1.75	612.45	612.45
B1	5209+72.43	1.75	612.51	612.52
C1	5209+62.43	1.75	612.57	612.59
D1	5209+52.43	1.75	612.64	612.66
E1	5209+42.43	1.75	612.70	612.73
F1	5209+32.43	1.75	612.75	612.78
G1	5209+22.43	1.75	612.80	612.82
H1	5209+12.43	1.75	612.83	612.85
℄ Brg. Pier C6	5208+97.43	1.75	612.86	612.86
I1	5208+87.43	1.75	612.89	612.90
J1	5208+77.43	1.75	612.92	612.95
K1	5208+67.43	1.75	612.94	612.98
L1	5208+57.43	1.75	612.97	613.02
M1	5208+47.43	1.75	613.00	613.04
N1	5208+37.43	1.75	613.01	613.04
O1	5208+27.43	1.75	612.99	613.02
P1	5208+17.43	1.75	612.98	612.99
℄ Brg. Pier C7	5208+07.74	1.75	612.96	612.96
Q1	5207+97.74	1.75	612.95	612.96
R1	5207+87.74	1.75	612.93	612.95
S1	5207+77.74	1.75	612.91	612.94
T1	5207+67.74	1.75	612.89	612.92
U1	5207+57.74	1.75	612.86	612.89
V1	5207+47.74	1.75	612.84	612.86
W1	5207+37.74	1.75	612.82	612.83
℄ Brg. Pier C8	5207+22.74	1.75	612.77	612.77
X1	5207+12.74	1.75	612.74	612.75
Y1	5207+02.74	1.75	612.71	612.73
Z1	5206+92.74	1.75	612.68	612.71
A2	5206+82.74	1.75	612.66	612.69
B2	5206+72.74	1.75	612.64	612.67
C2	5206+62.74	1.75	612.61	612.62
℄ W. Brg. Pier C9	5206+55.74	1.75	612.58	612.58
℄ Pier C9	5206+54.74	1.75	612.57	612.57

0160461-60X78-S032-TSE.dgn

PARSONS BRINCKERHOFF				
USER NAME = potald	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS II – UNIT II STRUCTURE NO. 016–0461
	CHECKED - JZ	REVISED -		SHEET NO. S2-32 OF S2-145 SHEETS
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -		
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	309
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC				
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
	CHECKED -	REVISED -		
PLOT SCALE = N.T.S	DRAWN -	REVISED -		
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1670
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing92

2:11:51 PM

FOR INFORMATION ONLY

STAGE I CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	0.50	611.85	611.85
℄ E. Brg. Pier C4	5210+49.60	0.50	611.86	611.86
V	5210+39.60	0.50	611.99	612.01
W	5210+29.60	0.50	612.10	612.13
X	5210+19.60	0.50	612.20	612.23
Y	5210+09.60	0.50	612.28	612.30
Z	5209+99.60	0.50	612.35	612.36
A1	5209+89.60	0.50	612.42	612.42
℄ Brg. Pier C5	5209+82.43	0.50	612.46	612.46
B1	5209+72.43	0.50	612.52	612.53
C1	5209+62.43	0.50	612.59	612.61
D1	5209+52.43	0.50	612.65	612.68
E1	5209+42.43	0.50	612.71	612.74
F1	5209+32.43	0.50	612.76	612.79
G1	5209+22.43	0.50	612.81	612.83
H1	5209+12.43	0.50	612.85	612.86
℄ Brg. Pier C6	5208+97.43	0.50	612.88	612.88
I1	5208+87.43	0.50	612.90	612.92
J1	5208+77.43	0.50	612.93	612.96
K1	5208+67.43	0.50	612.96	613.00
L1	5208+57.43	0.50	612.98	613.03
M1	5208+47.43	0.50	613.01	613.06
N1	5208+37.43	0.50	613.02	613.06
O1	5208+27.43	0.50	613.00	613.03
P1	5208+17.43	0.50	612.99	613.00
℄ Brg. Pier C7	5208+07.74	0.50	612.98	612.98
Q1	5207+97.74	0.50	612.96	612.97
R1	5207+87.74	0.50	612.95	612.97
S1	5207+77.74	0.50	612.92	612.95
T1	5207+67.74	0.50	612.90	612.93
U1	5207+57.74	0.50	612.88	612.91
V1	5207+47.74	0.50	612.85	612.88
W1	5207+37.74	0.50	612.83	612.84
℄ Brg. Pier C8	5207+22.74	0.50	612.79	612.79
X1	5207+12.74	0.50	612.76	612.76
Y1	5207+02.74	0.50	612.73	612.74
Z1	5206+92.74	0.50	612.70	612.72
A2	5206+82.74	0.50	612.67	612.70
B2	5206+72.74	0.50	612.65	612.68
C2	5206+62.74	0.50	612.62	612.63
℄ W. Brg. Pier C9	5206+55.74	0.50	612.59	612.59
℄ Pier C9	5206+54.74	0.50	612.59	612.59

WESTBOUND PROFILE GRADE LINE & CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	0.25	611.86	611.86
℄ E. Brg. Pier C4	5210+49.60	0.25	611.87	611.87
V	5210+39.60	0.25	612.00	612.02
W	5210+29.60	0.25	612.10	612.13
X	5210+19.60	0.25	612.21	612.24
Y	5210+09.60	0.25	612.28	612.31
Z	5209+99.60	0.25	612.35	612.36
A1	5209+89.60	0.25	612.42	612.42
℄ Brg. Pier C5	5209+82.43	0.25	612.46	612.46
B1	5209+72.43	0.25	612.53	612.54
C1	5209+62.43	0.25	612.59	612.61
D1	5209+52.43	0.25	612.66	612.68
E1	5209+42.43	0.25	612.72	612.75
F1	5209+32.43	0.25	612.77	612.79
G1	5209+22.43	0.25	612.81	612.84
H1	5209+12.43	0.25	612.85	612.86
℄ Brg. Pier C6	5208+97.43	0.25	612.88	612.88
I1	5208+87.43	0.25	612.91	612.92
J1	5208+77.43	0.25	612.93	612.96
K1	5208+67.43	0.25	612.96	613.00
L1	5208+57.43	0.25	612.99	613.03
M1	5208+47.43	0.25	613.01	613.06
N1	5208+37.43	0.25	613.02	613.06
O1	5208+27.43	0.25	613.01	613.03
P1	5208+17.43	0.25	612.99	613.00
℄ Brg. Pier C7	5208+07.74	0.25	612.98	612.98
Q1	5207+97.74	0.25	612.97	612.98
R1	5207+87.74	0.25	612.95	612.97
S1	5207+77.74	0.25	612.93	612.95
T1	5207+67.74	0.25	612.90	612.93
U1	5207+57.74	0.25	612.88	612.91
V1	5207+47.74	0.25	612.86	612.88
W1	5207+37.74	0.25	612.83	612.85
℄ Brg. Pier C8	5207+22.74	0.25	612.79	612.79
X1	5207+12.74	0.25	612.76	612.77
Y1	5207+02.74	0.25	612.73	612.74
Z1	5206+92.74	0.25	612.70	612.73
A2	5206+82.74	0.25	612.68	612.71
B2	5206+72.74	0.25	612.65	612.69
C2	5206+62.74	0.25	612.62	612.64
℄ W. Brg. Pier C9	5206+55.74	0.25	612.59	612.59
℄ Pier C9	5206+54.74	0.25	612.59	612.59

BEAM NO. 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	-1.25	611.88	611.88
℄ E. Brg. Pier C4	5210+49.60	-1.25	611.89	611.89
V	5210+39.60	-1.25	612.01	612.03
W	5210+29.60	-1.25	612.11	612.14
X	5210+19.60	-1.25	612.21	612.24
Y	5210+09.60	-1.25	612.29	612.31
Z	5209+99.60	-1.25	612.35	612.36
A1	5209+89.60	-1.25	612.42	612.42
℄ Brg. Pier C5	5209+82.43	-1.25	612.46	612.46
B1	5209+72.43	-1.25	612.52	612.53
C1	5209+62.43	-1.25	612.58	612.60
D1	5209+52.43	-1.25	612.65	612.67
E1	5209+42.43	-1.25	612.70	612.73
F1	5209+32.43	-1.25	612.75	612.78
G1	5209+22.43	-1.25	612.80	612.82
H1	5209+12.43	-1.25	612.83	612.85
℄ Brg. Pier C6	5208+97.43	-1.25	612.87	612.87
I1	5208+87.43	-1.25	612.89	612.90
J1	5208+77.43	-1.25	612.92	612.95
K1	5208+67.43	-1.25	612.94	612.98
L1	5208+57.43	-1.25	612.97	613.01
M1	5208+47.43	-1.25	612.99	613.04
N1	5208+37.43	-1.25	613.00	613.04
O1	5208+27.43	-1.25	612.99	613.01
P1	5208+17.43	-1.25	612.97	612.98
℄ Brg. Pier C7	5208+07.74	-1.25	612.96	612.96
Q1	5207+97.74	-1.25	612.95	612.95
R1	5207+87.74	-1.25	612.93	612.95
S1	5207+77.74	-1.25	612.91	612.93
T1	5207+67.74	-1.25	612.88	612.91
U1	5207+57.74	-1.25	612.86	612.89
V1	5207+47.74	-1.25	612.84	612.86
W1	5207+37.74	-1.25	612.81	612.83
℄ Brg. Pier C8	5207+22.74	-1.25	612.77	612.77
X1	5207+12.74	-1.25	612.74	612.75
Y1	5207+02.74	-1.25	612.71	612.72
Z1	5206+92.74	-1.25	612.68	612.71
A2	5206+82.74	-1.25	612.66	612.69
B2	5206+72.74	-1.25	612.64	612.67
C2	5206+62.74	-1.25	612.61	612.62
℄ W. Brg. Pier C9	5206+55.74	-1.25	612.58	612.58
℄ Pier C9	5206+54.74	-1.25	612.57	612.57

0160461-60X78-S033-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = alkhatib	DESIGNED - PJL	REVISED -
		CHECKED - JZ	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS III – UNIT II
STRUCTURE NO. 016-0461
SHEET NO. S2-33 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	310
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1671
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing93
2:12:01 PM

FOR INFORMATION ONLY

BEAM NO. 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	-7.25	611.95	611.95
℄ E. Brg. Pier C4	5210+49.60	-7.25	611.96	611.96
V	5210+39.60	-7.25	612.07	612.09
W	5210+29.60	-7.25	612.16	612.19
X	5210+19.60	-7.25	612.24	612.27
Y	5210+09.60	-7.25	612.30	612.33
Z	5209+99.60	-7.25	612.35	612.36
A1	5209+89.60	-7.25	612.41	612.41
℄ Brg. Pier C5	5209+82.43	-7.25	612.45	612.45
B1	5209+72.43	-7.25	612.50	612.51
C1	5209+62.43	-7.25	612.56	612.58
D1	5209+52.43	-7.25	612.61	612.64
E1	5209+42.43	-7.25	612.66	612.69
F1	5209+32.43	-7.25	612.70	612.73
G1	5209+22.43	-7.25	612.74	612.76
H1	5209+12.43	-7.25	612.77	612.79
℄ Brg. Pier C6	5208+97.43	-7.25	612.81	612.81
I1	5208+87.43	-7.25	612.83	612.84
J1	5208+77.43	-7.25	612.85	612.88
K1	5208+67.43	-7.25	612.88	612.92
L1	5208+57.43	-7.25	612.88	612.93
M1	5208+47.43	-7.25	612.91	612.96
N1	5208+37.43	-7.25	612.92	612.96
O1	5208+27.43	-7.25	612.90	612.93
P1	5208+17.43	-7.25	612.89	612.90
℄ Brg. Pier C7	5208+07.74	-7.25	612.88	612.88
Q1	5207+97.74	-7.25	612.86	612.87
R1	5207+87.74	-7.25	612.85	612.87
S1	5207+77.74	-7.25	612.83	612.85
T1	5207+67.74	-7.25	612.80	612.83
U1	5207+57.74	-7.25	612.78	612.81
V1	5207+47.74	-7.25	612.75	612.78
W1	5207+37.74	-7.25	612.73	612.74
℄ Brg. Pier C8	5207+22.74	-7.25	612.69	612.69
X1	5207+12.74	-7.25	612.66	612.67
Y1	5207+02.74	-7.25	612.63	612.64
Z1	5206+92.74	-7.25	612.60	612.63
A2	5206+82.74	-7.25	612.59	612.62
B2	5206+72.74	-7.25	612.58	612.61
C2	5206+62.74	-7.25	612.54	612.56
℄ W. Brg. Pier C9	5206+55.74	-7.25	612.51	612.51
℄ Pier C9	5206+54.74	-7.25	612.51	612.51

CROSS SLOPE BREAK POINT 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	-12.25	612.01	612.01
℄ E. Brg. Pier C4	5210+49.60	-12.25	612.02	612.02
V	5210+39.60	-12.25	612.12	612.13
W	5210+29.60	-12.25	612.19	612.22
X	5210+19.60	-12.25	612.27	612.30
Y	5210+09.60	-12.25	612.31	612.34
Z	5209+99.60	-12.25	612.35	612.37
A1	5209+89.60	-12.25	612.40	612.41
℄ Brg. Pier C5	5209+82.43	-12.25	612.44	612.44
B1	5209+72.43	-12.25	612.49	612.50
C1	5209+62.43	-12.25	612.53	612.55
D1	5209+52.43	-12.25	612.58	612.61
E1	5209+42.43	-12.25	612.63	612.66
F1	5209+32.43	-12.25	612.66	612.69
G1	5209+22.43	-12.25	612.70	612.72
H1	5209+12.43	-12.25	612.72	612.74
℄ Brg. Pier C6	5208+97.43	-12.25	612.76	612.76
I1	5208+87.43	-12.25	612.78	612.80
J1	5208+77.43	-12.25	612.81	612.84
K1	5208+67.43	-12.25	612.83	612.87
L1	5208+57.43	-12.25	612.82	612.87
M1	5208+47.43	-12.25	612.85	612.90
N1	5208+37.43	-12.25	612.86	612.90
O1	5208+27.43	-12.25	612.84	612.87
P1	5208+17.43	-12.25	612.83	612.84
℄ Brg. Pier C7	5208+07.74	-12.25	612.82	612.82
Q1	5207+97.74	-12.25	612.80	612.81
R1	5207+87.74	-12.25	612.79	612.81
S1	5207+77.74	-12.25	612.76	612.79
T1	5207+67.74	-12.25	612.74	612.77
U1	5207+57.74	-12.25	612.72	612.75
V1	5207+47.74	-12.25	612.69	612.72
W1	5207+37.74	-12.25	612.67	612.68
℄ Brg. Pier C8	5207+22.74	-12.25	612.63	612.63
X1	5207+12.74	-12.25	612.60	612.60
Y1	5207+02.74	-12.25	612.57	612.58
Z1	5206+92.74	-12.25	612.55	612.57
A2	5206+82.74	-12.25	612.54	612.57
B2	5206+72.74	-12.25	612.53	612.56
C2	5206+62.74	-12.25	612.50	612.51
℄ W. Brg. Pier C9	5206+55.74	-12.25	612.47	612.47
℄ Pier C9	5206+54.74	-12.25	612.46	612.46

BEAM NO. 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	-13.25	612.03	612.03
℄ E. Brg. Pier C4	5210+49.60	-13.25	612.04	612.04
V	5210+39.60	-13.25	612.13	612.15
W	5210+29.60	-13.25	612.20	612.23
X	5210+19.60	-13.25	612.27	612.30
Y	5210+09.60	-13.25	612.31	612.33
Z	5209+99.60	-13.25	612.35	612.36
A1	5209+89.60	-13.25	612.39	612.40
℄ Brg. Pier C5	5209+82.43	-13.25	612.43	612.43
B1	5209+72.43	-13.25	612.47	612.48
C1	5209+62.43	-13.25	612.52	612.54
D1	5209+52.43	-13.25	612.56	612.59
E1	5209+42.43	-13.25	612.60	612.63
F1	5209+32.43	-13.25	612.64	612.66
G1	5209+22.43	-13.25	612.66	612.69
H1	5209+12.43	-13.25	612.69	612.71
℄ Brg. Pier C6	5208+97.43	-13.25	612.73	612.73
I1	5208+87.43	-13.25	612.75	612.76
J1	5208+77.43	-13.25	612.78	612.80
K1	5208+67.43	-13.25	612.80	612.84
L1	5208+57.43	-13.25	612.79	612.84
M1	5208+47.43	-13.25	612.82	612.87
N1	5208+37.43	-13.25	612.83	612.87
O1	5208+27.43	-13.25	612.81	612.84
P1	5208+17.43	-13.25	612.80	612.81
℄ Brg. Pier C7	5208+07.74	-13.25	612.79	612.79
Q1	5207+97.74	-13.25	612.77	612.78
R1	5207+87.74	-13.25	612.76	612.77
S1	5207+77.74	-13.25	612.73	612.76
T1	5207+67.74	-13.25	612.71	612.74
U1	5207+57.74	-13.25	612.69	612.71
V1	5207+47.74	-13.25	612.66	612.69
W1	5207+37.74	-13.25	612.64	612.65
℄ Brg. Pier C8	5207+22.74	-13.25	612.60	612.60
X1	5207+12.74	-13.25	612.57	612.57
Y1	5207+02.74	-13.25	612.54	612.55
Z1	5206+92.74	-13.25	612.52	612.54
A2	5206+82.74	-13.25	612.51	612.54
B2	5206+72.74	-13.25	612.50	612.53
C2	5206+62.74	-13.25	612.46	612.48
℄ W. Brg. Pier C9	5206+55.74	-13.25	612.44	612.44
℄ Pier C9	5206+54.74	-13.25	612.43	612.43

0160461-60X78-S034-TSE.dgn

PARSONS BRINCKERHOFF				
USER NAME = potela	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS IV – UNIT II STRUCTURE NO. 016–0461
	CHECKED - JZ	REVISED -		
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -		
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-34 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	311
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC				
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
	CHECKED -	REVISED -		
PLOT SCALE = N.T.S	DRAWN -	REVISED -		
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1672
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing94

2:12:09 PM

FOR INFORMATION ONLY

BEAM NO. 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	-19.25	612.11	612.11
℄ E. Brg. Pier C4	5210+49.60	-19.25	612.12	612.12
V	5210+39.60	-19.25	612.19	612.21
W	5210+29.60	-19.25	612.23	612.27
X	5210+19.60	-19.25	612.28	612.31
Y	5210+09.60	-19.25	612.30	612.32
Z	5209+99.60	-19.25	612.32	612.34
A1	5209+89.60	-19.25	612.36	612.36
℄ Brg. Pier C5	5209+82.43	-19.25	612.38	612.38
B1	5209+72.43	-19.25	612.41	612.42
C1	5209+62.43	-19.25	612.45	612.47
D1	5209+52.43	-19.25	612.48	612.50
E1	5209+42.43	-19.25	612.51	612.54
F1	5209+32.43	-19.25	612.53	612.56
G1	5209+22.43	-19.25	612.54	612.57
H1	5209+12.43	-19.25	612.57	612.58
℄ Brg. Pier C6	5208+97.43	-19.25	612.60	612.60
I1	5208+87.43	-19.25	612.63	612.64
J1	5208+77.43	-19.25	612.65	612.68
K1	5208+67.43	-19.25	612.67	612.71
L1	5208+57.43	-19.25	612.67	612.72
M1	5208+47.43	-19.25	612.69	612.74
N1	5208+37.43	-19.25	612.70	612.74
O1	5208+27.43	-19.25	612.69	612.72
P1	5208+17.43	-19.25	612.67	612.69
℄ Brg. Pier C7	5208+07.74	-19.25	612.66	612.66
Q1	5207+97.74	-19.25	612.65	612.66
R1	5207+87.74	-19.25	612.63	612.65
S1	5207+77.74	-19.25	612.61	612.63
T1	5207+67.74	-19.25	612.59	612.62
U1	5207+57.74	-19.25	612.56	612.59
V1	5207+47.74	-19.25	612.54	612.56
W1	5207+37.74	-19.25	612.51	612.53
℄ Brg. Pier C8	5207+22.74	-19.25	612.47	612.47
X1	5207+12.74	-19.25	612.44	612.45
Y1	5207+02.74	-19.25	612.41	612.43
Z1	5206+92.74	-19.25	612.39	612.42
A2	5206+82.74	-19.25	612.38	612.41
B2	5206+72.74	-19.25	612.37	612.40
C2	5206+62.74	-19.25	612.34	612.35
℄ W. Brg. Pier C9	5206+55.74	-19.25	612.31	612.31
℄ Pier C9	5206+54.74	-19.25	612.31	612.31

BEAM NO. 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C4	5210+50.43	-25.25	612.19	612.19
℄ E. Brg. Pier C4	5210+49.60	-25.25	612.20	612.20
V	5210+39.60	-25.25	612.25	612.26
W	5210+29.60	-25.25	612.27	612.30
X	5210+19.60	-25.25	612.29	612.32
Y	5210+09.60	-25.25	612.29	612.31
Z	5209+99.60	-25.25	612.30	612.31
A1	5209+89.60	-25.25	612.32	612.33
℄ Brg. Pier C5	5209+82.43	-25.25	612.34	612.34
B1	5209+72.43	-25.25	612.36	612.37
C1	5209+62.43	-25.25	612.38	612.40
D1	5209+52.43	-25.25	612.40	612.42
E1	5209+42.43	-25.25	612.41	612.44
F1	5209+32.43	-25.25	612.42	612.45
G1	5209+22.43	-25.25	612.42	612.45
H1	5209+12.43	-25.25	612.44	612.46
℄ Brg. Pier C6	5208+97.43	-25.25	612.48	612.48
I1	5208+87.43	-25.25	612.50	612.51
J1	5208+77.43	-25.25	612.53	612.55
K1	5208+67.43	-25.25	612.55	612.59
L1	5208+57.43	-25.25	612.54	612.59
M1	5208+47.43	-25.25	612.57	612.62
N1	5208+37.43	-25.25	612.58	612.62
O1	5208+27.43	-25.25	612.56	612.59
P1	5208+17.43	-25.25	612.55	612.56
℄ Brg. Pier C7	5208+07.74	-25.25	612.54	612.54
Q1	5207+97.74	-25.25	612.52	612.53
R1	5207+87.74	-25.25	612.51	612.52
S1	5207+77.74	-25.25	612.48	612.51
T1	5207+67.74	-25.25	612.46	612.49
U1	5207+57.74	-25.25	612.44	612.46
V1	5207+47.74	-25.25	612.41	612.44
W1	5207+37.74	-25.25	612.39	612.40
℄ Brg. Pier C8	5207+22.74	-25.25	612.35	612.35
X1	5207+12.74	-25.25	612.32	612.32
Y1	5207+02.74	-25.25	612.29	612.30
Z1	5206+92.74	-25.25	612.27	612.29
A2	5206+82.74	-25.25	612.26	612.29
B2	5206+72.74	-25.25	612.25	612.28
C2	5206+62.74	-25.25	612.21	612.23
℄ W. Brg. Pier C9	5206+55.74	-25.25	612.19	612.19
℄ Pier C9	5206+54.74	-25.25	612.18	612.18

0160461-60X78-S035-TSE.dgn

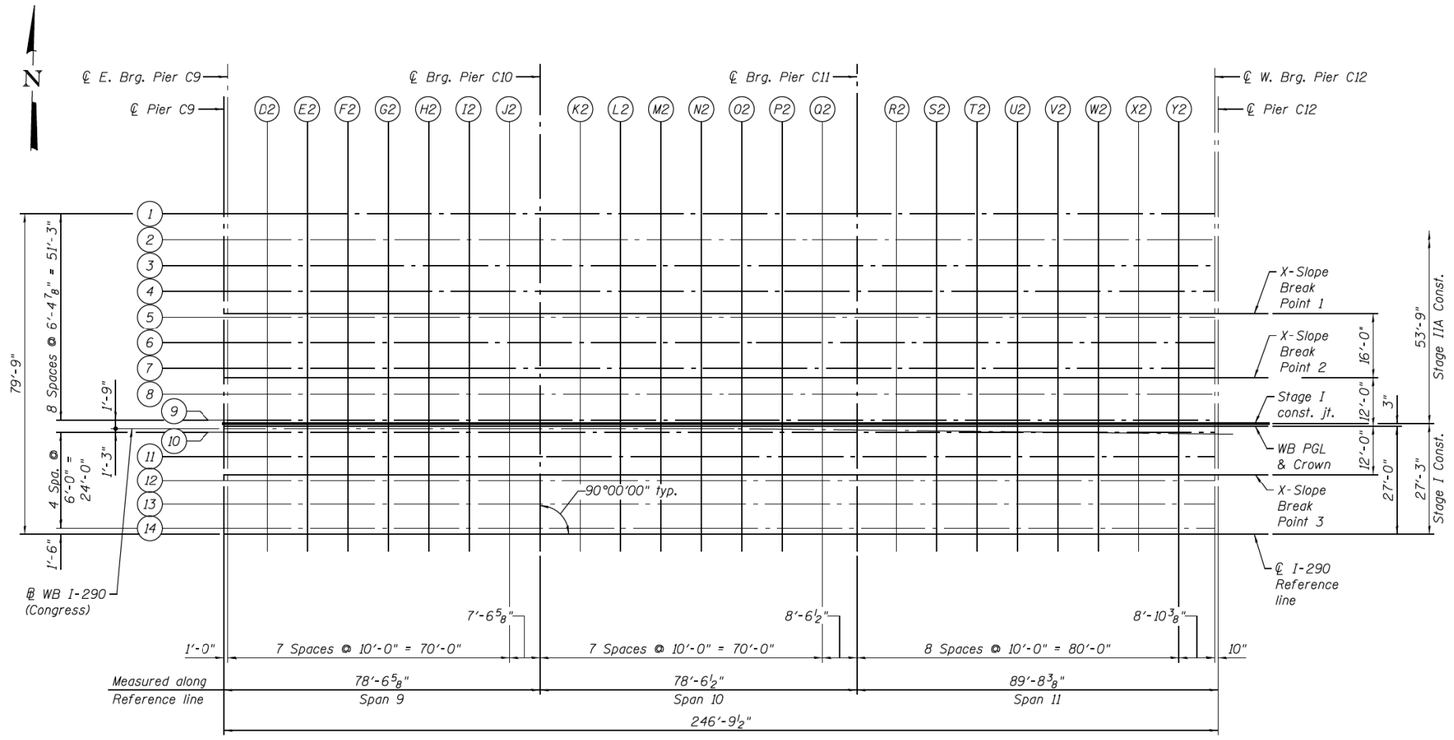
PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS V – UNIT II STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	312
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-35 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1673
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

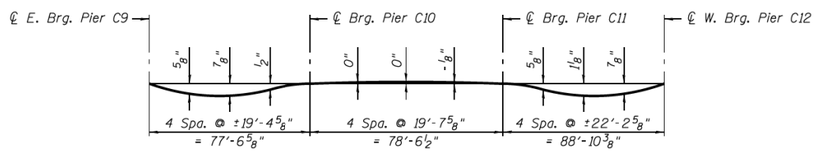
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing95

2:12:19 PM

FOR INFORMATION ONLY



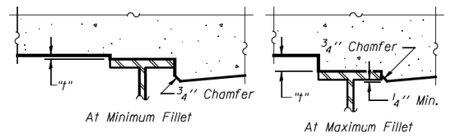
PLAN - UNIT III



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables, see sheets S2-36 thru S2-43.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals in tables, see sheets S2-36 thru S2-43. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets S2-36 thru S2-43, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATION PLAN – UNIT III STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	313
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-36 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1674
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

016046I-60X78-S036-TSE.dgn

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing96

2:12:29 PM

FOR INFORMATION ONLY

BEAM NO. 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	53.00	611.55	611.55
℄ E.Brg. Pier C9	5206+53.74	53.00	611.54	611.54
D2	5206+43.74	53.00	611.51	611.54
E2	5206+33.74	53.00	611.48	611.53
F2	5206+23.74	53.00	611.42	611.49
G2	5206+13.74	53.00	611.38	611.45
H2	5206+03.74	53.00	611.33	611.39
I2	5205+93.74	53.00	611.29	611.33
J2	5205+83.74	53.00	611.25	611.27
℄ Brg. Pier C10	5205+76.19	53.00	611.22	611.22
K2	5205+66.19	53.00	611.17	611.17
L2	5205+56.19	53.00	611.13	611.13
M2	5205+46.19	53.00	611.09	611.09
N2	5205+36.19	53.00	611.05	611.05
O2	5205+26.77	53.02	611.01	611.01
P2	5205+16.77	52.80	610.98	610.97
Q2	5205+06.78	53.30	610.94	610.94
℄ Brg. Pier C11	5204+98.23	53.33	610.91	610.91
R2	5204+88.24	53.44	610.87	610.89
S2	5204+78.24	53.55	610.83	610.88
T2	5204+68.24	53.66	610.80	610.86
U2	5204+58.24	53.77	610.77	610.85
V2	5204+48.24	53.89	610.74	610.83
W2	5204+38.24	54.00	610.71	610.79
X2	5204+28.24	54.11	610.69	610.75
Y2	5204+18.24	54.22	610.66	610.69
℄ W.Brg. Pier C12	5204+09.38	54.31	610.63	610.63
℄ Pier C12	5204+08.54	54.32	610.63	610.63

BEAM NO. 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	46.59	611.70	611.70
℄ E.Brg. Pier C9	5206+53.74	46.59	611.70	611.70
D2	5206+43.74	46.59	611.66	611.69
E2	5206+33.74	46.59	611.63	611.68
F2	5206+23.74	46.59	611.57	611.64
G2	5206+13.74	46.59	611.53	611.60
H2	5206+03.74	46.59	611.49	611.54
I2	5205+93.74	46.59	611.44	611.48
J2	5205+83.74	46.59	611.40	611.42
℄ Brg. Pier C10	5205+76.19	46.59	611.37	611.37
K2	5205+66.19	46.59	611.32	611.32
L2	5205+56.19	46.59	611.28	611.28
M2	5205+46.19	46.59	611.24	611.24
N2	5205+36.19	46.59	611.20	611.20
O2	5205+26.70	46.61	611.17	611.16
P2	5205+16.70	46.72	611.13	611.12
Q2	5205+06.70	46.83	611.09	611.09
℄ Brg. Pier C11	5204+98.16	46.93	611.06	611.06
R2	5204+88.16	47.04	611.02	611.04
S2	5204+78.17	47.15	610.98	611.03
T2	5204+68.17	47.26	610.95	611.01
U2	5204+58.17	47.37	610.92	611.00
V2	5204+48.17	47.48	610.89	610.98
W2	5204+38.17	47.59	610.86	610.94
X2	5204+28.17	47.70	610.84	610.90
Y2	5204+18.17	47.81	610.81	610.84
℄ W.Brg. Pier C12	5204+09.30	47.91	610.78	610.78
℄ Pier C12	5204+08.47	47.92	610.78	610.78

BEAM NO. 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	40.19	611.85	611.85
℄ E.Brg. Pier C9	5206+53.74	40.19	611.85	611.85
D2	5206+43.74	40.19	611.81	611.84
E2	5206+33.74	40.19	611.78	611.83
F2	5206+23.74	40.19	611.72	611.79
G2	5206+13.74	40.19	611.68	611.75
H2	5206+03.74	40.19	611.64	611.69
I2	5205+93.74	40.19	611.60	611.63
J2	5205+83.74	40.19	611.55	611.57
℄ Brg. Pier C10	5205+76.19	40.19	611.52	611.52
K2	5205+66.19	40.19	611.47	611.47
L2	5205+56.19	40.19	611.43	611.43
M2	5205+46.19	40.19	611.39	611.39
N2	5205+36.19	40.19	611.35	611.35
O2	5205+26.63	40.21	611.32	611.31
P2	5205+16.63	40.32	611.28	611.27
Q2	5205+06.63	40.43	611.24	611.24
℄ Brg. Pier C11	5204+98.09	40.52	611.21	611.21
R2	5204+88.09	40.63	611.17	611.19
S2	5204+78.09	40.74	611.13	611.18
T2	5204+68.09	40.85	611.10	611.16
U2	5204+58.10	40.96	611.07	611.15
V2	5204+48.10	41.07	611.04	611.13
W2	5204+38.10	41.18	611.01	611.09
X2	5204+28.10	41.29	610.99	611.05
Y2	5204+18.10	41.40	610.96	610.99
℄ W.Brg. Pier C12	5204+09.23	41.50	610.93	610.93
℄ Pier C12	5204+08.40	41.51	610.93	610.93

0160461-60X78-S037-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS I – UNIT III STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	314
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-37 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1675
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing97

2:12:38 PM

FOR INFORMATION ONLY

BEAM NO. 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	33.78	612.00	612.00
℄ E.Brg. Pier C9	5206+53.74	33.78	612.00	612.00
D2	5206+43.74	33.78	611.97	611.99
E2	5206+33.74	33.78	611.93	611.98
F2	5206+23.74	33.78	611.87	611.94
G2	5206+13.74	33.78	611.83	611.90
H2	5206+03.74	33.78	611.79	611.84
I2	5205+93.74	33.78	611.75	611.78
J2	5205+83.74	33.78	611.70	611.72
℄ Brg. Pier C10	5205+76.19	33.78	611.67	611.67
K2	5205+66.19	33.78	611.62	611.62
L2	5205+56.19	33.78	611.58	611.58
M2	5205+46.19	33.78	611.54	611.54
N2	5205+36.19	33.78	611.50	611.50
O2	5205+26.56	33.80	611.47	611.46
P2	5205+16.56	33.91	611.43	611.42
Q2	5205+06.56	34.02	611.39	611.39
℄ Brg. Pier C11	5204+98.02	34.12	611.36	611.36
R2	5204+88.02	34.23	611.32	611.34
S2	5204+78.02	34.34	611.28	611.33
T2	5204+68.02	34.45	611.25	611.31
U2	5204+58.02	34.56	611.22	611.30
V2	5204+48.03	34.67	611.19	611.28
W2	5204+38.03	34.78	611.16	611.24
X2	5204+28.03	34.89	611.14	611.20
Y2	5204+18.03	35.00	611.11	611.14
℄ W.Brg. Pier C12	5204+09.16	35.10	611.08	611.08
℄ Pier C12	5204+08.33	35.11	611.08	611.08

CROSS SLOPE BREAK POINT 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	28.25	612.13	612.13
℄ E.Brg. Pier C9	5206+53.74	28.25	612.13	612.13
D2	5206+43.74	28.25	612.10	612.12
E2	5206+33.74	28.25	612.06	612.11
F2	5206+23.74	28.25	612.00	612.07
G2	5206+13.74	28.25	611.96	612.03
H2	5206+03.74	28.25	611.92	611.97
I2	5205+93.74	28.25	611.88	611.91
J2	5205+83.74	28.25	611.83	611.85
℄ Brg. Pier C10	5205+76.19	28.25	611.80	611.80
K2	5205+66.19	28.25	611.75	611.75
L2	5205+56.19	28.25	611.71	611.71
M2	5205+46.19	28.25	611.67	611.67
N2	5205+36.19	28.25	611.63	611.63
O2	5205+26.50	28.27	611.60	611.59
P2	5205+16.50	28.38	611.56	611.55
Q2	5205+06.50	28.49	611.52	611.52
℄ Brg. Pier C11	5204+97.96	28.58	611.49	611.49
R2	5204+87.96	28.70	611.45	611.47
S2	5204+77.96	28.81	611.41	611.46
T2	5204+67.96	28.92	611.38	611.44
U2	5204+57.96	29.03	611.35	611.43
V2	5204+47.96	29.14	611.32	611.41
W2	5204+37.97	29.25	611.29	611.37
X2	5204+27.97	29.36	611.27	611.33
Y2	5204+17.97	29.47	611.24	611.27
℄ W.Brg. Pier C12	5204+09.10	29.57	611.21	611.21
℄ Pier C12	5204+08.27	29.58	611.21	611.21

BEAM NO. 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	27.38	612.15	612.15
℄ E.Brg. Pier C9	5206+53.74	27.38	612.14	612.14
D2	5206+43.74	27.38	612.11	612.14
E2	5206+33.74	27.38	612.07	612.13
F2	5206+23.74	27.38	612.02	612.09
G2	5206+13.74	27.38	611.98	612.05
H2	5206+03.74	27.38	611.93	611.99
I2	5205+93.74	27.38	611.89	611.93
J2	5205+83.74	27.38	611.85	611.87
℄ Brg. Pier C10	5205+76.19	27.38	611.82	611.82
K2	5205+66.19	27.38	611.77	611.77
L2	5205+56.19	27.38	611.73	611.73
M2	5205+46.19	27.38	611.69	611.69
N2	5205+36.19	27.38	611.65	611.65
O2	5205+26.49	27.39	611.61	611.61
P2	5205+16.49	27.50	611.58	611.57
Q2	5205+06.49	27.62	611.54	611.54
℄ Brg. Pier C11	5204+97.95	27.71	611.51	611.51
R2	5204+87.95	27.82	611.47	611.49
S2	5204+77.95	27.93	611.43	611.48
T2	5204+67.95	28.04	611.40	611.46
U2	5204+57.95	28.15	611.37	611.45
V2	5204+47.95	28.26	611.34	611.43
W2	5204+37.96	28.37	611.31	611.39
X2	5204+27.96	28.48	611.29	611.35
Y2	5204+17.96	28.59	611.26	611.29
℄ W.Brg. Pier C12	5204+09.09	28.69	611.23	611.23
℄ Pier C12	5204+08.26	28.70	611.23	611.23

0160461-60X78-S038-TSE.dgn

PARSONS BRINCKERHOFF				
USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS II – UNIT III STRUCTURE NO. 016–0461
	CHECKED - JZ	REVISED -		
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -		
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-38 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	315
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC				
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
	CHECKED -	REVISED -		
PLOT SCALE = N.T.S	DRAWN -	REVISED -		
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1676
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing98

2:12:48 PM

FOR INFORMATION ONLY

BEAM NO. 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	20.97	612.28	612.28
℄ E.Brg. Pier C9	5206+53.74	20.97	612.28	612.28
D2	5206+43.74	20.97	612.25	612.27
E2	5206+33.74	20.97	612.21	612.26
F2	5206+23.74	20.97	612.16	612.22
G2	5206+13.74	20.97	612.11	612.18
H2	5206+03.74	20.97	612.07	612.12
I2	5205+93.74	20.97	612.03	612.06
J2	5205+83.74	20.97	611.98	612.00
℄ Brg. Pier C10	5205+76.19	20.97	611.95	611.95
K2	5205+66.19	20.97	611.90	611.90
L2	5205+56.19	20.97	611.86	611.86
M2	5205+46.19	20.97	611.82	611.82
N2	5205+36.19	20.97	611.78	611.78
O2	5205+26.42	20.99	611.75	611.74
P2	5205+16.42	21.10	611.71	611.70
Q2	5205+06.42	21.21	611.68	611.67
℄ Brg. Pier C11	5204+97.88	21.30	611.64	611.64
R2	5204+87.88	21.41	611.60	611.62
S2	5204+77.88	21.52	611.56	611.61
T2	5204+67.88	21.64	611.53	611.60
U2	5204+57.88	21.75	611.50	611.59
V2	5204+47.88	21.86	611.47	611.56
W2	5204+37.88	21.97	611.44	611.52
X2	5204+27.89	22.08	611.42	611.48
Y2	5204+17.89	22.19	611.40	611.42
℄ W.Brg. Pier C12	5204+09.02	22.28	611.36	611.36
℄ Pier C12	5204+08.19	22.29	611.36	611.36

BEAM NO. 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	14.56	612.42	612.42
℄ E.Brg. Pier C9	5206+53.74	14.56	612.41	612.41
D2	5206+43.74	14.56	612.38	612.41
E2	5206+33.74	14.56	612.34	612.39
F2	5206+23.74	14.56	612.29	612.35
G2	5206+13.74	14.56	612.24	612.31
H2	5206+03.74	14.56	612.20	612.26
I2	5205+93.74	14.56	612.16	612.20
J2	5205+83.74	14.56	612.12	612.13
℄ Brg. Pier C10	5205+76.19	14.56	612.08	612.08
K2	5205+66.19	14.56	612.04	612.04
L2	5205+56.19	14.56	612.00	612.00
M2	5205+46.19	14.56	611.95	611.95
N2	5205+36.19	14.56	611.92	611.92
O2	5205+26.35	14.58	611.88	611.88
P2	5205+16.35	14.69	611.85	611.84
Q2	5205+06.35	14.80	611.81	611.80
℄ Brg. Pier C11	5204+97.81	14.90	611.77	611.77
R2	5204+87.81	15.01	611.73	611.76
S2	5204+77.81	15.12	611.70	611.74
T2	5204+67.81	15.23	611.66	611.73
U2	5204+57.81	15.34	611.63	611.72
V2	5204+47.81	15.45	611.60	611.69
W2	5204+37.81	15.56	611.58	611.65
X2	5204+27.81	15.67	611.55	611.61
Y2	5204+17.82	15.78	611.53	611.56
℄ W.Brg. Pier C12	5204+08.95	15.88	611.50	611.50
℄ Pier C12	5204+08.12	15.89	611.49	611.49

CROSS SLOPE BREAK POINT 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	12.25	612.46	612.46
℄ E.Brg. Pier C9	5206+53.74	12.25	612.46	612.46
D2	5206+43.74	12.25	612.43	612.46
E2	5206+33.74	12.25	612.39	612.44
F2	5206+23.74	12.25	612.34	612.40
G2	5206+13.74	12.25	612.29	612.36
H2	5206+03.74	12.25	612.25	612.30
I2	5205+93.74	12.25	612.21	612.25
J2	5205+83.74	12.25	612.17	612.18
℄ Brg. Pier C10	5205+76.19	12.25	612.13	612.13
K2	5205+66.19	12.25	612.09	612.09
L2	5205+56.19	12.25	612.04	612.04
M2	5205+46.19	12.25	612.00	612.00
N2	5205+36.19	12.25	611.96	611.96
O2	5205+26.33	12.27	611.93	611.92
P2	5205+16.33	12.38	611.89	611.89
Q2	5205+06.33	12.49	611.86	611.85
℄ Brg. Pier C11	5204+97.78	12.59	611.82	611.82
R2	5204+87.79	12.70	611.78	611.81
S2	5204+77.79	12.81	611.75	611.79
T2	5204+67.79	12.92	611.71	611.78
U2	5204+57.79	13.03	611.68	611.77
V2	5204+47.79	13.14	611.65	611.74
W2	5204+37.79	13.25	611.62	611.70
X2	5204+27.79	13.36	611.60	611.66
Y2	5204+17.79	13.47	611.58	611.61
℄ W.Brg. Pier C12	5204+08.93	13.57	611.55	611.55
℄ Pier C12	5204+08.09	13.58	611.54	611.54

0160461-60X78-S039-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -
		CHECKED - JZ	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS III – UNIT III
STRUCTURE NO. 016–0461
SHEET NO. S2-39 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	316
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1677
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing99
2:12:57 PM

FOR INFORMATION ONLY

BEAM NO. 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	8.16	612.51	612.51
℄ E.Brg. Pier C9	5206+53.74	8.16	612.50	612.50
D2	5206+43.74	8.16	612.47	612.50
E2	5206+33.74	8.16	612.43	612.49
F2	5206+23.74	8.16	612.38	612.44
G2	5206+13.74	8.16	612.33	612.40
H2	5206+03.74	8.16	612.29	612.35
I2	5205+93.74	8.16	612.25	612.29
J2	5205+83.74	8.16	612.21	612.22
℄ Brg. Pier C10	5205+76.19	8.16	612.17	612.17
K2	5205+66.19	8.16	612.13	612.13
L2	5205+56.19	8.16	612.09	612.09
M2	5205+46.19	8.16	612.04	612.04
N2	5205+36.19	8.16	612.01	612.01
O2	5205+26.28	8.18	611.97	611.97
P2	5205+16.28	8.29	611.94	611.93
Q2	5205+06.28	8.40	611.90	611.89
℄ Brg. Pier C11	5204+97.74	8.49	611.87	611.87
R2	5204+87.74	8.60	611.83	611.85
S2	5204+77.74	8.71	611.79	611.84
T2	5204+67.74	8.82	611.75	611.82
U2	5204+57.74	8.93	611.72	611.81
V2	5204+47.74	9.04	611.70	611.78
W2	5204+37.74	9.15	611.67	611.75
X2	5204+27.74	9.26	611.64	611.71
Y2	5204+17.74	9.38	611.62	611.65
℄ W.Brg. Pier C12	5204+08.88	9.47	611.59	611.59
℄ Pier C12	5204+08.05	9.48	611.59	611.59

BEAM NO. 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	1.75	612.57	612.57
℄ E.Brg. Pier C9	5206+53.74	1.75	612.57	612.57
D2	5206+43.74	1.75	612.54	612.56
E2	5206+33.74	1.75	612.50	612.55
F2	5206+23.74	1.75	612.45	612.51
G2	5206+13.74	1.75	612.40	612.47
H2	5206+03.74	1.75	612.36	612.41
I2	5205+93.74	1.75	612.32	612.36
J2	5205+83.74	1.75	612.27	612.29
℄ Brg. Pier C10	5205+76.19	1.75	612.24	612.24
K2	5205+66.19	1.75	612.20	612.20
L2	5205+56.19	1.75	612.15	612.15
M2	5205+46.19	1.75	612.11	612.11
N2	5205+36.19	1.75	612.07	612.07
O2	5205+26.21	1.77	612.04	612.03
P2	5205+16.21	1.88	612.00	611.99
Q2	5205+06.21	1.99	611.97	611.96
℄ Brg. Pier C11	5204+97.67	2.09	611.93	611.93
R2	5204+87.67	2.20	611.89	611.92
S2	5204+77.67	2.31	611.86	611.90
T2	5204+67.67	2.42	611.82	611.89
U2	5204+57.67	2.53	611.79	611.88
V2	5204+47.67	2.64	611.76	611.85
W2	5204+37.67	2.75	611.73	611.81
X2	5204+27.67	2.86	611.71	611.77
Y2	5204+17.67	2.97	611.69	611.72
℄ W.Brg. Pier C12	5204+08.81	3.07	611.66	611.66
℄ Pier C12	5204+07.98	3.08	611.65	611.65

STAGE I CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	0.50	612.59	612.59
℄ E.Brg. Pier C9	5206+53.74	0.50	612.58	612.58
D2	5206+43.74	0.50	612.55	612.58
E2	5206+33.74	0.50	612.51	612.57
F2	5206+23.74	0.50	612.46	612.52
G2	5206+13.74	0.50	612.41	612.48
H2	5206+03.74	0.50	612.37	612.43
I2	5205+93.74	0.50	612.33	612.37
J2	5205+83.74	0.50	612.29	612.30
℄ Brg. Pier C10	5205+76.19	0.50	612.25	612.25
K2	5205+66.19	0.50	612.21	612.21
L2	5205+56.19	0.50	612.17	612.17
M2	5205+46.19	0.50	612.12	612.12
N2	5205+36.19	0.50	612.09	612.09
O2	5205+26.19	0.52	612.05	612.05
P2	5205+16.20	0.63	612.02	612.01
Q2	5205+06.20	0.74	611.98	611.97
℄ Brg. Pier C11	5204+97.65	0.84	611.95	611.95
R2	5204+87.66	0.95	611.90	611.93
S2	5204+77.66	1.06	611.87	611.92
T2	5204+67.66	1.17	611.83	611.90
U2	5204+57.66	1.28	611.80	611.89
V2	5204+47.66	1.39	611.78	611.86
W2	5204+37.66	1.50	611.75	611.82
X2	5204+27.66	1.61	611.72	611.79
Y2	5204+17.66	1.72	611.70	611.73
℄ W.Brg. Pier C12	5204+08.80	1.82	611.67	611.67
℄ Pier C12	5204+07.96	1.83	611.67	611.67

0160461-60X78-S040-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS IV – UNIT III STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	317
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-40 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1678
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing100

2:13:07 PM

FOR INFORMATION ONLY

WESTBOUND PROFILE GRADE LINE & CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	0.25	612.59	612.59
℄ E.Brg. Pier C9	5206+53.74	0.25	612.58	612.58
D2	5206+43.74	0.25	612.55	612.58
E2	5206+33.74	0.25	612.52	612.57
F2	5206+23.74	0.25	612.46	612.53
G2	5206+13.74	0.25	612.42	612.49
H2	5206+03.74	0.25	612.37	612.43
I2	5205+93.74	0.25	612.33	612.37
J2	5205+83.74	0.25	612.29	612.31
℄ Brg. Pier C10	5205+76.19	0.25	612.26	612.26
K2	5205+66.19	0.25	612.21	612.21
L2	5205+56.19	0.25	612.17	612.17
M2	5205+46.19	0.25	612.13	612.13
N2	5205+36.19	0.25	612.09	612.09
O2	5205+26.19	0.27	612.05	612.05
P2	5205+16.20	0.38	612.02	612.01
Q2	5205+06.20	0.49	611.98	611.98
℄ Brg. Pier C11	5204+97.65	0.59	611.95	611.95
R2	5204+87.66	0.70	611.91	611.93
S2	5204+77.66	0.81	611.87	611.92
T2	5204+67.66	0.92	611.84	611.90
U2	5204+57.66	1.03	611.81	611.89
V2	5204+47.66	1.14	611.78	611.87
W2	5204+37.66	1.25	611.75	611.83
X2	5204+27.66	1.36	611.73	611.79
Y2	5204+17.66	1.47	611.70	611.73
℄ W.Brg. Pier C12	5204+08.80	1.57	611.67	611.67
℄ Pier C12	5204+07.96	1.58	611.67	611.67

BEAM NO. 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	-1.25	612.57	612.57
℄ E.Brg. Pier C9	5206+53.74	-1.25	612.57	612.57
D2	5206+43.74	-1.25	612.54	612.56
E2	5206+33.74	-1.25	612.50	612.55
F2	5206+23.74	-1.25	612.45	612.51
G2	5206+13.74	-1.25	612.40	612.47
H2	5206+03.74	-1.25	612.36	612.41
I2	5205+93.74	-1.25	612.32	612.36
J2	5205+83.74	-1.25	612.27	612.29
℄ Brg. Pier C10	5205+76.19	-1.25	612.24	612.24
K2	5205+66.19	-1.25	612.20	612.20
L2	5205+56.19	-1.25	612.15	612.15
M2	5205+46.19	-1.25	612.11	612.11
N2	5205+36.19	-1.25	612.07	612.07
O2	5205+26.18	-1.23	612.04	612.03
P2	5205+16.18	-1.12	612.00	611.99
Q2	5205+06.18	-1.01	611.97	611.96
℄ Brg. Pier C11	5204+97.64	-0.91	611.93	611.93
R2	5204+87.64	-0.80	611.89	611.92
S2	5204+77.64	-0.69	611.86	611.90
T2	5204+67.64	-0.58	611.82	611.89
U2	5204+57.64	-0.47	611.79	611.88
V2	5204+47.64	-0.36	611.76	611.85
W2	5204+37.64	-0.25	611.73	611.81
X2	5204+27.64	-0.14	611.71	611.77
Y2	5204+17.64	-0.03	611.69	611.72
℄ W.Brg. Pier C12	5204+08.78	0.07	611.66	611.66
℄ Pier C12	5204+07.94	0.08	611.65	611.65

BEAM NO. 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	-7.25	612.51	612.51
℄ E.Brg. Pier C9	5206+53.74	-7.25	612.51	612.51
D2	5206+43.74	-7.25	612.47	612.50
E2	5206+33.74	-7.25	612.44	612.49
F2	5206+23.74	-7.25	612.38	612.45
G2	5206+13.74	-7.25	612.34	612.41
H2	5206+03.74	-7.25	612.30	612.35
I2	5205+93.74	-7.25	612.26	612.29
J2	5205+83.74	-7.25	612.21	612.23
℄ Brg. Pier C10	5205+76.19	-7.25	612.18	612.18
K2	5205+66.19	-7.25	612.13	612.13
L2	5205+56.19	-7.25	612.09	612.09
M2	5205+46.19	-7.25	612.05	612.05
N2	5205+36.19	-7.25	612.01	612.01
O2	5205+26.11	-7.23	611.98	611.97
P2	5205+16.11	-7.12	611.94	611.93
Q2	5205+06.11	-7.01	611.90	611.90
℄ Brg. Pier C11	5204+97.57	-6.91	611.87	611.87
R2	5204+87.57	-6.80	611.83	611.85
S2	5204+77.57	-6.69	611.79	611.84
T2	5204+67.57	-6.58	611.76	611.82
U2	5204+57.57	-6.47	611.73	611.81
V2	5204+47.57	-6.36	611.70	611.79
W2	5204+37.57	-6.25	611.67	611.75
X2	5204+27.57	-6.14	611.65	611.71
Y2	5204+17.57	-6.03	611.62	611.65
℄ W.Brg. Pier C12	5204+08.71	-5.93	611.59	611.59
℄ Pier C12	5204+07.88	-5.92	611.59	611.59

0160461-60X78-S041-TSE.dgn

PARSONS BRINCKERHOFF	USER NAME = potald	DESIGNED - PJL	REVISED -
		CHECKED - JZ	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS V – UNIT III
STRUCTURE NO. 016–0461
SHEET NO. S2-41 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	318
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1679
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing101

2:13:17 PM

FOR INFORMATION ONLY

CROSS SLOPE BREAK POINT 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	-11.75	612.46	612.46
℄ E.Brg. Pier C9	5206+53.74	-11.75	612.46	612.46
D2	5206+43.74	-11.75	612.43	612.46
E2	5206+33.74	-11.75	612.39	612.44
F2	5206+23.74	-11.75	612.34	612.40
G2	5206+13.74	-11.75	612.29	612.36
H2	5206+03.74	-11.75	612.25	612.30
I2	5205+93.74	-11.75	612.21	612.25
J2	5205+83.74	-11.75	612.17	612.18
℄ Brg. Pier C10	5205+76.19	-11.75	612.13	612.13
K2	5205+66.19	-11.75	612.09	612.09
L2	5205+56.19	-11.75	612.04	612.04
M2	5205+46.19	-11.75	612.00	612.00
N2	5205+36.19	-11.75	611.96	611.96
O2	5205+26.06	-11.73	611.93	611.92
P2	5205+16.06	-11.62	611.89	611.89
Q2	5205+06.06	-11.51	611.86	611.85
℄ Brg. Pier C11	5204+97.52	-11.41	611.82	611.82
R2	5204+87.52	-11.30	611.78	611.81
S2	5204+77.52	-11.19	611.75	611.79
T2	5204+67.52	-11.08	611.71	611.78
U2	5204+57.53	-10.97	611.68	611.77
V2	5204+47.53	-10.86	611.65	611.74
W2	5204+37.53	-10.75	611.62	611.70
X2	5204+27.53	-10.64	611.60	611.66
Y2	5204+17.53	-10.53	611.58	611.61
℄ W.Brg. Pier C12	5204+08.66	-10.43	611.55	611.55
℄ Pier C12	5204+07.83	-10.42	611.54	611.54

BEAM NO. 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	-13.25	612.43	612.43
℄ E.Brg. Pier C9	5206+53.74	-13.25	612.43	612.43
D2	5206+43.74	-13.25	612.40	612.42
E2	5206+33.74	-13.25	612.36	612.41
F2	5206+23.74	-13.25	612.31	612.37
G2	5206+13.74	-13.25	612.26	612.33
H2	5206+03.74	-13.25	612.22	612.27
I2	5205+93.74	-13.25	612.18	612.22
J2	5205+83.74	-13.25	612.13	612.15
℄ Brg. Pier C10	5205+76.19	-13.25	612.10	612.10
K2	5205+66.19	-13.25	612.05	612.05
L2	5205+56.19	-13.25	612.01	612.01
M2	5205+46.19	-13.25	611.97	611.97
N2	5205+36.19	-13.25	611.93	611.93
O2	5205+26.04	-13.23	611.90	611.89
P2	5205+16.04	-13.12	611.86	611.85
Q2	5205+06.04	-13.01	611.82	611.82
℄ Brg. Pier C11	5204+97.50	-12.91	611.79	611.79
R2	5204+87.50	-12.80	611.75	611.77
S2	5204+77.50	-12.69	611.71	611.76
T2	5204+67.50	-12.58	611.68	611.75
U2	5204+57.51	-12.47	611.65	611.74
V2	5204+47.51	-12.36	611.63	611.72
W2	5204+37.51	-12.25	611.60	611.68
X2	5204+27.51	-12.14	611.57	611.64
Y2	5204+17.51	-12.03	611.55	611.58
℄ W.Brg. Pier C12	5204+08.64	-11.93	611.52	611.52
℄ Pier C12	5204+07.81	-11.92	611.52	611.52

BEAM NO. 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	-19.25	612.31	612.31
℄ E.Brg. Pier C9	5206+53.74	-19.25	612.30	612.30
D2	5206+43.74	-19.25	612.27	612.30
E2	5206+33.74	-19.25	612.23	612.29
F2	5206+23.74	-19.25	612.18	612.25
G2	5206+13.74	-19.25	612.13	612.21
H2	5206+03.74	-19.25	612.09	612.15
I2	5205+93.74	-19.25	612.05	612.09
J2	5205+83.74	-19.25	612.01	612.03
℄ Brg. Pier C10	5205+76.19	-19.25	611.97	611.97
K2	5205+66.19	-19.25	611.93	611.93
L2	5205+56.19	-19.25	611.89	611.89
M2	5205+46.19	-19.25	611.85	611.85
N2	5205+36.19	-19.25	611.81	611.81
O2	5205+25.98	-19.23	611.77	611.77
P2	5205+15.98	-19.12	611.74	611.73
Q2	5205+05.98	-19.01	611.70	611.70
℄ Brg. Pier C11	5204+97.44	-18.91	611.67	611.67
R2	5204+87.44	-18.80	611.63	611.65
S2	5204+77.44	-18.69	611.59	611.64
T2	5204+67.44	-18.58	611.56	611.63
U2	5204+57.44	-18.47	611.54	611.63
V2	5204+47.44	-18.36	611.52	611.61
W2	5204+37.44	-18.25	611.49	611.57
X2	5204+27.44	-18.14	611.47	611.53
Y2	5204+17.44	-18.03	611.45	611.48
℄ W.Brg. Pier C12	5204+08.58	-17.93	611.41	611.42
℄ Pier C12	5204+07.74	-17.92	611.41	611.41

0160461-60X78-S042-TSE.dgn

PARSONS BRINCKERHOFF			
USER NAME = potald	DESIGNED - PJL	REVISED -	
	CHECKED - JZ	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS VI – UNIT III
STRUCTURE NO. 016–0461
SHEET NO. S2-42 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	319
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1680
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing102

2:13:27 PM

FOR INFORMATION ONLY

BEAM NO. 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C9	5206+54.74	-25.25	612.18	612.18
℄ E.Brg. Pier C9	5206+53.74	-25.25	612.18	612.18
D2	5206+43.74	-25.25	612.15	612.17
E2	5206+33.74	-25.25	612.11	612.16
F2	5206+23.74	-25.25	612.06	612.12
G2	5206+13.74	-25.25	612.01	612.08
H2	5206+03.74	-25.25	611.97	612.02
I2	5205+93.74	-25.25	611.93	611.97
J2	5205+83.74	-25.25	611.88	611.90
℄ Brg. Pier C10	5205+76.19	-25.25	611.85	611.85
K2	5205+66.19	-25.25	611.80	611.80
L2	5205+56.19	-25.25	611.76	611.76
M2	5205+46.19	-25.25	611.72	611.72
N2	5205+36.19	-25.25	611.68	611.68
O2	5205+25.91	-25.23	611.65	611.64
P2	5205+15.91	-25.12	611.61	611.60
Q2	5205+05.91	-25.01	611.57	611.57
℄ Brg. Pier C11	5204+97.37	-24.91	611.54	611.54
R2	5204+87.37	-24.80	611.50	611.52
S2	5204+77.37	-24.69	611.46	611.51
T2	5204+67.37	-24.58	611.44	611.51
U2	5204+57.37	-24.47	611.43	611.52
V2	5204+47.37	-24.36	611.42	611.51
W2	5204+37.37	-24.25	611.39	611.47
X2	5204+27.37	-24.14	611.36	611.43
Y2	5204+17.38	-24.03	611.34	611.37
℄ W.Brg. Pier C12	5204+08.51	-23.93	611.31	611.31
℄ Pier C12	5204+07.68	-23.92	611.31	611.31

0160461-60X78-S043-TSE.dgn

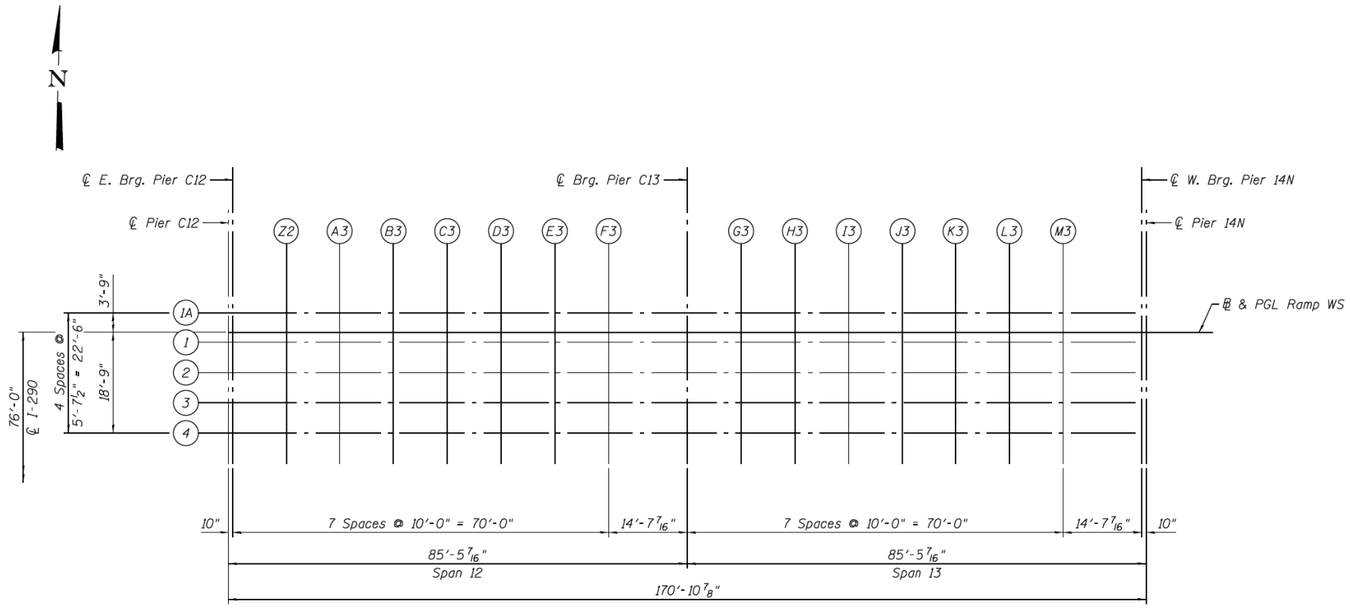
PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS VII – UNIT III STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	320
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-43 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1681
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

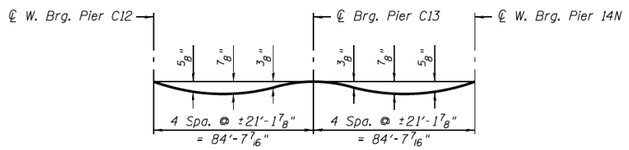
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing103

2:13:37 PM

FOR INFORMATION ONLY



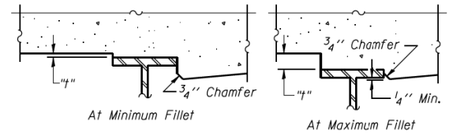
PLAN - ENTRANCE RAMP



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables, see sheet S2-45.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals in tables, see sheet S2-45. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet S2-45, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATION PLAN – ENTRANCE RAMP STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	321
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-44 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1682
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing104

0160461-60X78-S044-TSE.dgn

2:13:46 PM

FOR INFORMATION ONLY

BEAM NO. 1A

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C12	1202+33.34	-3.75	610.63	610.63
℄ E.Brg. Pier C12	1202+32.51	-3.75	610.62	610.62
Z2	1202+22.51	-3.75	610.52	610.55
A3	1202+12.51	-3.75	610.34	610.39
B3	1202+02.51	-3.75	610.08	610.14
C3	1201+92.51	-3.75	609.74	609.81
D3	1201+82.51	-3.75	609.32	609.38
E3	1201+72.51	-3.75	608.84	608.88
F3	1201+62.51	-3.75	608.37	608.39
℄ Brg. Pier C13	1201+47.89	-3.75	607.67	607.67
G3	1201+37.89	-3.75	607.20	607.21
H3	1201+27.89	-3.75	606.72	606.75
I3	1201+17.89	-3.75	606.25	606.30
J3	1201+07.89	-3.75	605.77	605.84
K3	1200+97.89	-3.75	605.30	605.36
L3	1200+87.89	-3.75	604.82	604.88
M3	1200+77.89	-3.75	604.35	604.38
℄ W.Brg. Pier 14N	1200+63.27	-3.75	603.67	603.67
℄ Pier 14N	1200+62.43	-3.75	603.63	603.63

RAMP WS PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C12	1202+33.34	0.00	610.72	610.72
℄ E.Brg. Pier C12	1202+32.51	0.00	610.71	610.71
Z2	1202+22.51	0.00	610.61	610.64
A3	1202+12.51	0.00	610.43	610.48
B3	1202+02.51	0.00	610.17	610.23
C3	1201+92.51	0.00	609.83	609.90
D3	1201+82.51	0.00	609.41	609.46
E3	1201+72.51	0.00	608.93	608.97
F3	1201+62.51	0.00	608.46	608.48
℄ Brg. Pier C13	1201+47.89	0.00	607.76	607.76
G3	1201+37.89	0.00	607.29	607.30
H3	1201+27.89	0.00	606.81	606.84
I3	1201+17.89	0.00	606.34	606.39
J3	1201+07.89	0.00	605.86	605.93
K3	1200+97.89	0.00	605.39	605.45
L3	1200+87.89	0.00	604.91	604.97
M3	1200+77.89	0.00	604.44	604.47
℄ W.Brg. Pier 14N	1200+63.27	0.00	603.74	603.74
℄ Pier 14N	1200+62.43	0.00	603.70	603.70

BEAM NO. 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C12	1202+33.34	1.88	610.76	610.76
℄ E.Brg. Pier C12	1202+32.51	1.88	610.76	610.76
Z2	1202+22.51	1.88	610.66	610.68
A3	1202+12.51	1.88	610.48	610.52
B3	1202+02.51	1.88	610.21	610.28
C3	1201+92.51	1.88	609.87	609.94
D3	1201+82.51	1.88	609.45	609.51
E3	1201+72.51	1.88	608.98	609.01
F3	1201+62.51	1.88	608.50	608.52
℄ Brg. Pier C13	1201+47.89	1.88	607.81	607.81
G3	1201+37.89	1.88	607.33	607.35
H3	1201+27.89	1.88	606.86	606.89
I3	1201+17.89	1.88	606.38	606.43
J3	1201+07.89	1.88	605.91	605.97
K3	1200+97.89	1.88	605.43	605.50
L3	1200+87.89	1.88	604.96	605.01
M3	1200+77.89	1.88	604.48	604.52
℄ W.Brg. Pier 14N	1200+63.27	1.88	603.78	603.78
℄ Pier 14N	1200+62.43	1.88	603.74	603.74

BEAM NO. 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C12	1202+33.34	7.50	610.89	610.89
℄ E.Brg. Pier C12	1202+32.51	7.50	610.89	610.89
Z2	1202+22.51	7.50	610.79	610.81
A3	1202+12.51	7.50	610.61	610.66
B3	1202+02.51	7.50	610.35	610.41
C3	1201+92.51	7.50	610.00	610.08
D3	1201+82.51	7.50	609.58	609.64
E3	1201+72.51	7.50	609.11	609.15
F3	1201+62.51	7.50	608.63	608.65
℄ Brg. Pier C13	1201+47.89	7.50	607.94	607.94
G3	1201+37.89	7.50	607.46	607.48
H3	1201+27.89	7.50	606.99	607.02
I3	1201+17.89	7.50	606.51	606.56
J3	1201+07.89	7.50	606.04	606.11
K3	1200+97.89	7.50	605.56	605.63
L3	1200+87.89	7.50	605.09	605.14
M3	1200+77.89	7.50	604.61	604.65
℄ W.Brg. Pier 14N	1200+63.27	7.50	603.89	603.89
℄ Pier 14N	1200+62.43	7.50	603.85	603.85

BEAM NO. 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C12	1202+33.34	13.13	611.03	611.03
℄ E.Brg. Pier C12	1202+32.51	13.13	611.02	611.02
Z2	1202+22.51	13.13	610.92	610.95
A3	1202+12.51	13.13	610.74	610.79
B3	1202+02.51	13.13	610.48	610.54
C3	1201+92.51	13.13	610.14	610.21
D3	1201+82.51	13.13	609.71	609.77
E3	1201+72.51	13.13	609.24	609.28
F3	1201+62.51	13.13	608.77	608.79
℄ Brg. Pier C13	1201+47.89	13.13	608.07	608.07
G3	1201+37.89	13.13	607.60	607.61
H3	1201+27.89	13.13	607.12	607.15
I3	1201+17.89	13.13	606.65	606.69
J3	1201+07.89	13.13	606.17	606.24
K3	1200+97.89	13.13	605.70	605.76
L3	1200+87.89	13.13	605.22	605.28
M3	1200+77.89	13.13	604.75	604.78
℄ W.Brg. Pier 14N	1200+63.27	13.13	604.00	604.00
℄ Pier 14N	1200+62.43	13.13	603.96	603.96

BEAM NO. 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Pier C12	1202+33.34	18.75	611.16	611.16
℄ E.Brg. Pier C12	1202+32.51	18.75	611.15	611.15
Z2	1202+22.51	18.75	611.05	611.08
A3	1202+12.51	18.75	610.87	610.92
B3	1202+02.51	18.75	610.61	610.67
C3	1201+92.51	18.75	610.27	610.34
D3	1201+82.51	18.75	609.85	609.90
E3	1201+72.51	18.75	609.37	609.41
F3	1201+62.51	18.75	608.90	608.92
℄ Brg. Pier C13	1201+47.89	18.75	608.20	608.20
G3	1201+37.89	18.75	607.73	607.74
H3	1201+27.89	18.75	607.25	607.28
I3	1201+17.89	18.75	606.78	606.83
J3	1201+07.89	18.75	606.30	606.37
K3	1200+97.89	18.75	605.83	605.89
L3	1200+87.89	18.75	605.35	605.41
M3	1200+77.89	18.75	604.88	604.91
℄ W.Brg. Pier 14N	1200+63.27	18.75	604.12	604.12
℄ Pier 14N	1200+62.43	18.75	604.07	604.07

0160461-60X78-S045-TSE.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - PJL	REVISED -	
	CHECKED - JZ	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS – ENTRANCE RAMP
STRUCTURE NO. 016-0461
SHEET NO. S2-45 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	322
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

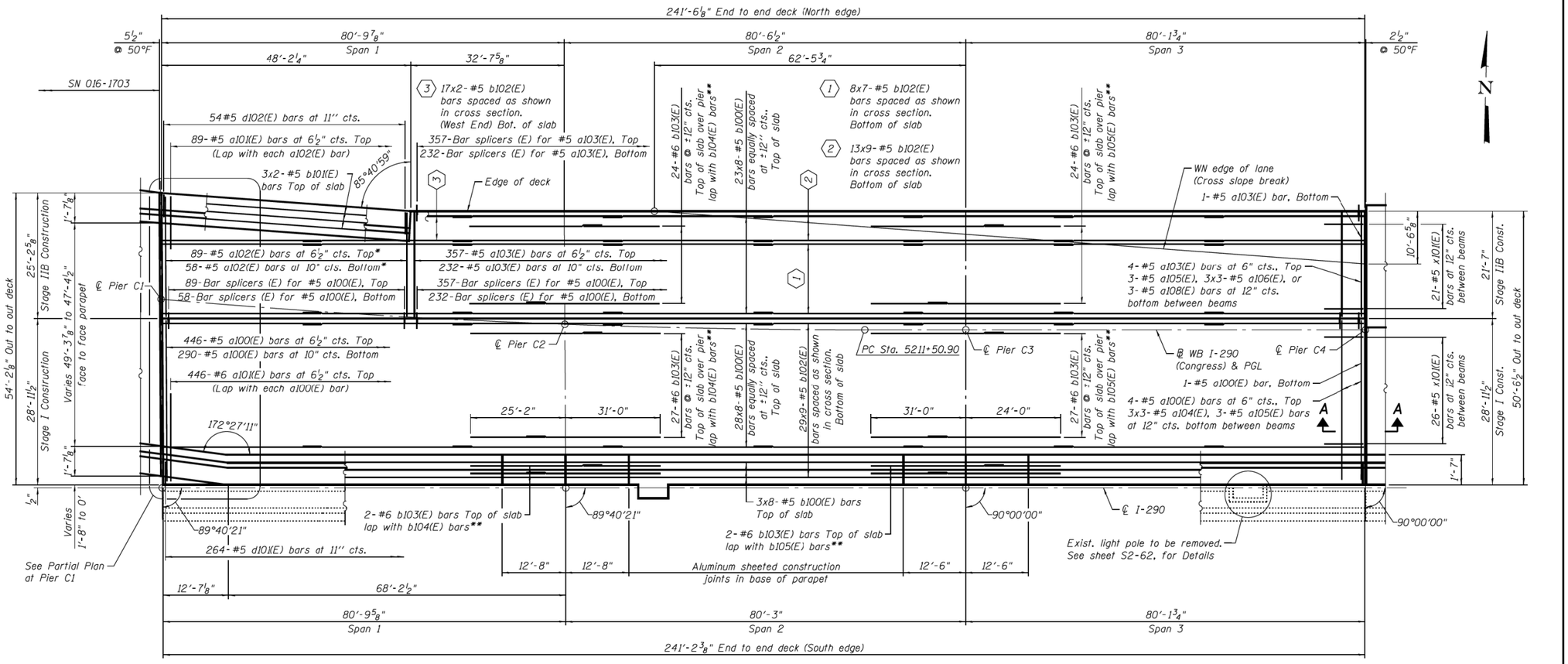
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1683
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing105

2:13:54 PM

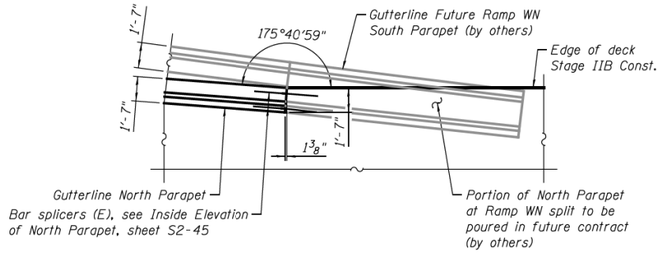
FOR INFORMATION ONLY



DECK PLAN - UNIT I

* Order a102(E) bars full length. Cut to fit skew.

** Alternate location of lap.



PLAN
NORTH PARAPET AT RAMP WN SPLIT (FUTURE)

(Reinforcement not shown for clarity)

MINIMUM BAR LAP

#5 bar = 2'-7"
#6 bar = 3'-1"

Notes:

1. See sheet S2-47, for cross sections.
2. See sheet S2-48, for parapet reinforcement.
3. See sheet S2-49 thru S2-51, for superstructure details, Partial Plan at Pier C1, and Bill of Material.
4. See sheet S2-57, for Section A-A.
6. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
7. Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.
8. Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail strip seal joint, deck dimensions may require adjustments to satisfy the details on sheet S2-70.

0160461-60X78-S046-DEK.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - LFC	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	DECK PLAN – UNIT I
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	STRUCTURE NO. 016–0461
			SHEET NO. S2-46 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	323
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

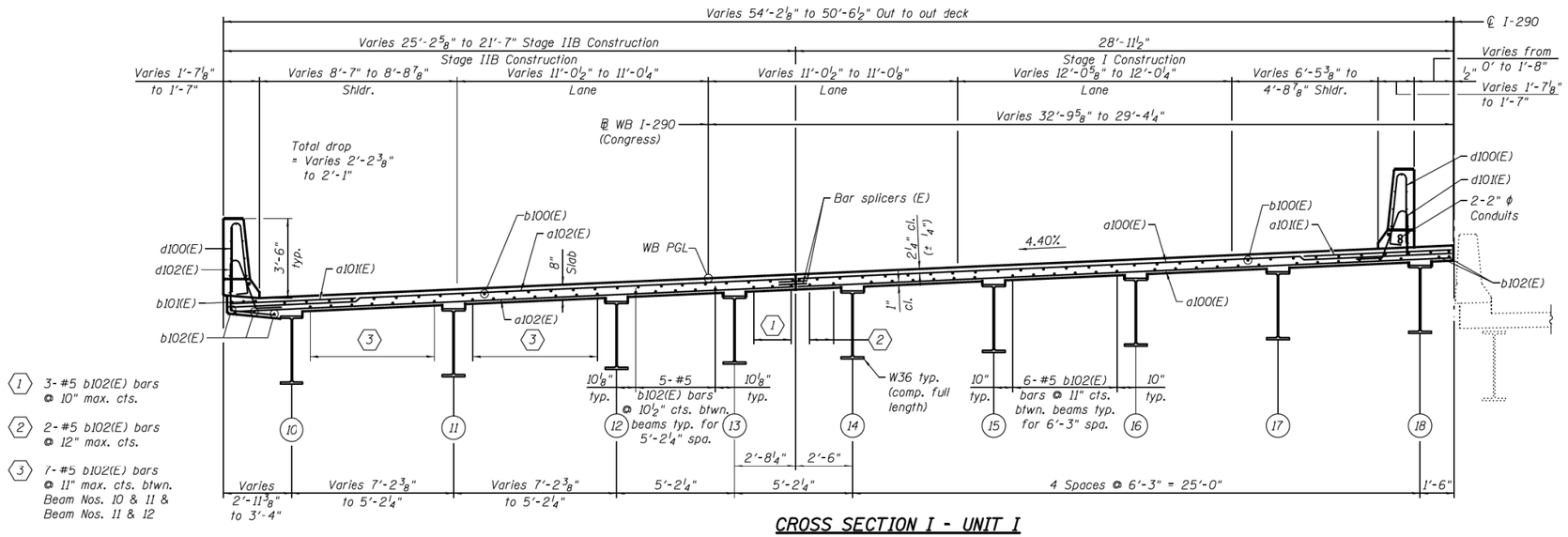
HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	EXISTING RECORD DRAWINGS
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1684
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing106

2:14:05 PM

FOR INFORMATION ONLY



CROSS SECTION I - UNIT I

(Looking East)

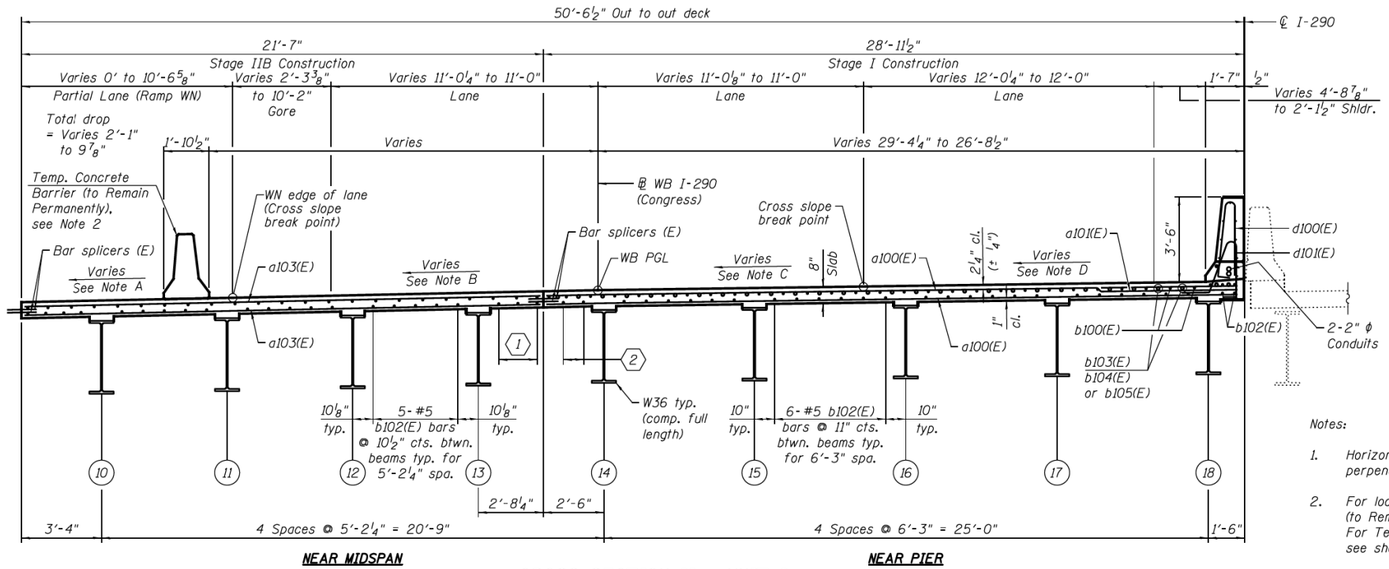
Sta. 5212+92.22 to Sta. 5212+44.11

Note A: (Direction of slope referenced from WB PGL, stations decreasing looking east)
Transition (-4.31% to -2.00%)
Sta. 5212+06.63 to Sta. 5210+97.41
Constant cross slope (-2.00%)
Sta. 5210+97.41 to Sta. 5210+50.53

Note B: (Direction of slope referenced from WB PGL, stations decreasing looking east)
Constant cross slope (-4.40%)
Sta. 5212+44.11 to Sta. 5211+99.79
Transition (-4.40% to -2.08%)
5211+99.79 to Sta. 5211+22.79
Constant cross slope (-2.08%)
Sta. 5211+22.79 to Sta. 5210+50.53

Note C: (Direction of slope referenced from WB PGL, stations decreasing looking east)
Constant cross slope (4.40%)
Sta. 5212+44.11 to Sta. 5211+99.79
Transition (4.40% to 1.37%)
Sta. 5211+99.79 to Sta. 5210+98.79
Transition (1.37% to 1.25%)
Sta. 5210+98.79 to Sta. 5210+94.79
Constant cross slope (1.25%)
Sta. 5210+94.79 to Sta. 5210+50.53

Note D: (Direction of slope referenced from WB PGL, stations decreasing looking east)
Constant cross slope (4.40%)
Sta. 5212+44.11 to Sta. 5211+99.79
Transition (4.40% to 1.37%)
Sta. 5211+99.79 to Sta. 5210+98.79
Constant cross slope (1.37%)
Sta. 5210+98.79 to Sta. 5210+50.53



NEAR MIDSPAN **NEAR PIER**

CROSS SECTION II - UNIT I

(Looking East)

Sta. 5212+44.11 to Sta. 5210+50.53

Notes:

1. *Horizontal dimensions are measured perpendicular to ℄ I-290.*
2. *For location of Temporary Concrete Barrier (to Remain Permanently), see Civil sheets. For Temporary Concrete Barrier details, see sheet S2-24.*

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK DETAILS I– UNIT I STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - LFC	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	324
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-47 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

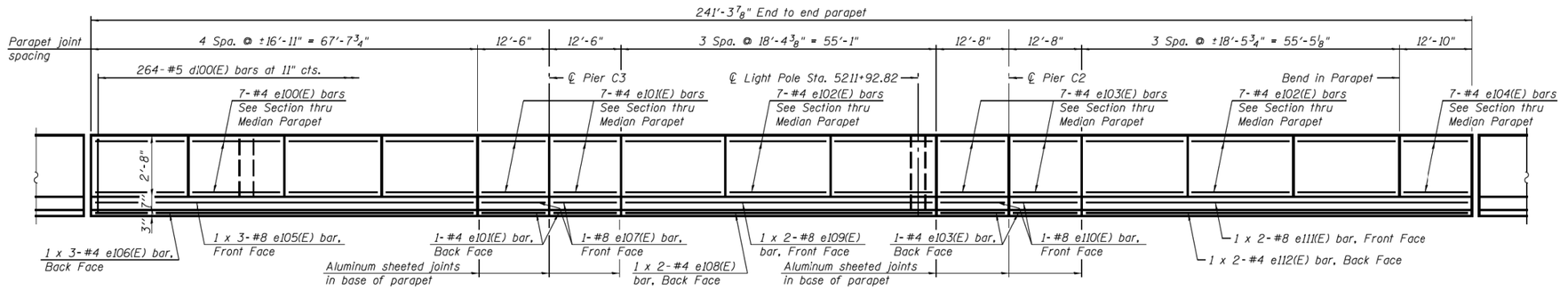
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1685
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

0160461-60X78-S047-DET.dgn

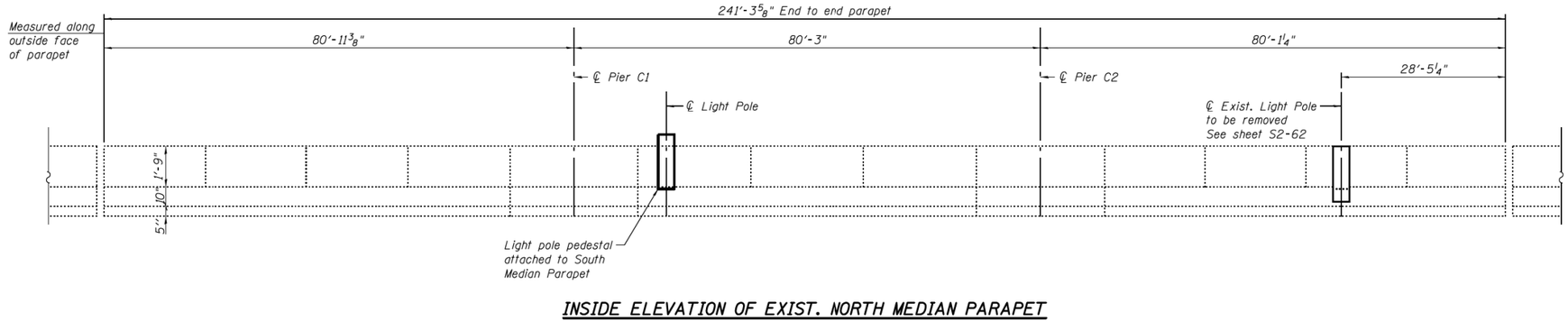
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing107

2:14:15 PM

FOR INFORMATION ONLY

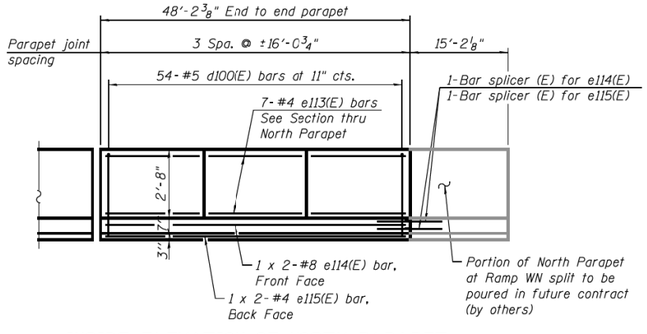


INSIDE ELEVATION OF SOUTH MEDIAN PARAPET



INSIDE ELEVATION OF EXIST. NORTH MEDIAN PARAPET

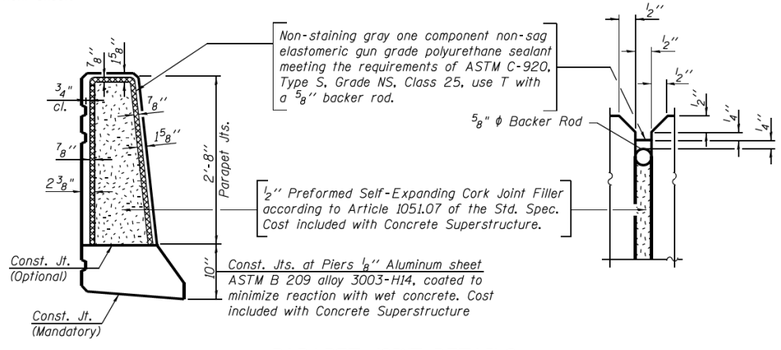
Note:
For Section thru Median Parapet & Section thru North Parapet, see next sheet.



INSIDE ELEVATION OF NORTH PARAPET

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



PARAPET JOINT DETAILS

0160461-60X78-SD48-DET.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - LFC	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

DECK DETAILS II – UNIT I
STRUCTURE NO. 016–0461
SHEET NO. S2-48 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	325
		CONTRACT NO. 60X78		
		ILLINOIS	FED. AID PROJECT	

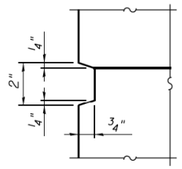
HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

EXISTING RECORD DRAWINGS

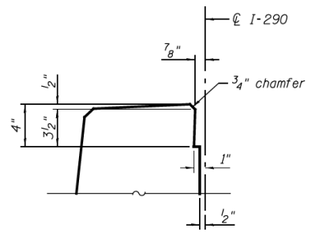
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1686
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing108
2:14:24 PM

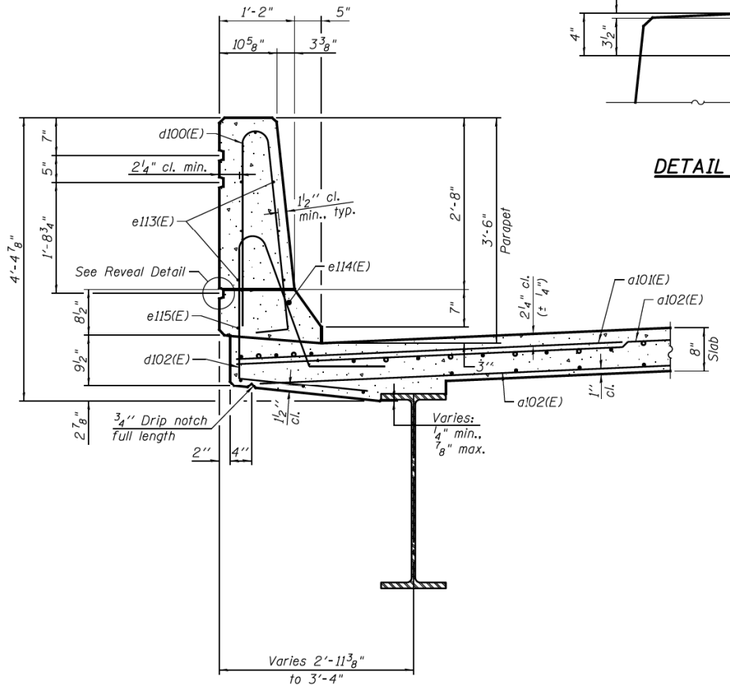
FOR INFORMATION ONLY



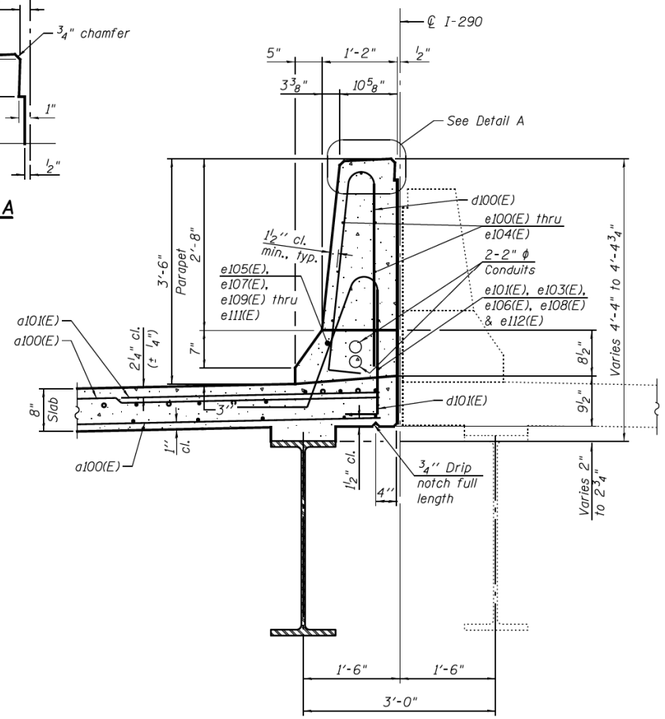
REVEAL DETAIL



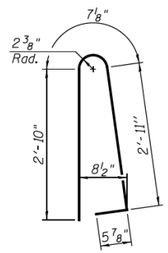
DETAIL A



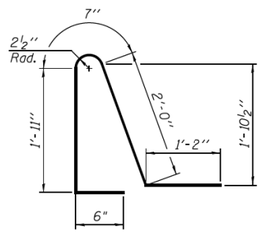
SECTION THRU NORTH PARAPET



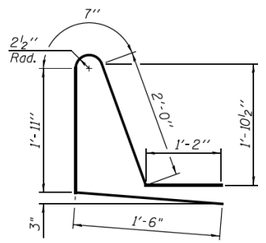
SECTION THRU MEDIAN PARAPET



BAR d100(E)



BAR d101(E)



BAR d102(E)

Notes:

1. Reveal is included in cost of Concrete Superstructure.
2. See sheet S2-51, for superstructure details and Bill of Material.

0160461-60X78-SD49-DET.dgn

PARSONS BRINCKERHOFF	USER NAME = pateld	DESIGNED - PJL	REVISED -
		CHECKED - LFC	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK DETAILS III – UNIT I
STRUCTURE NO. 016-0461
SHEET NO. S2-49 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	326
		CONTRACT NO. 60X78		
		ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

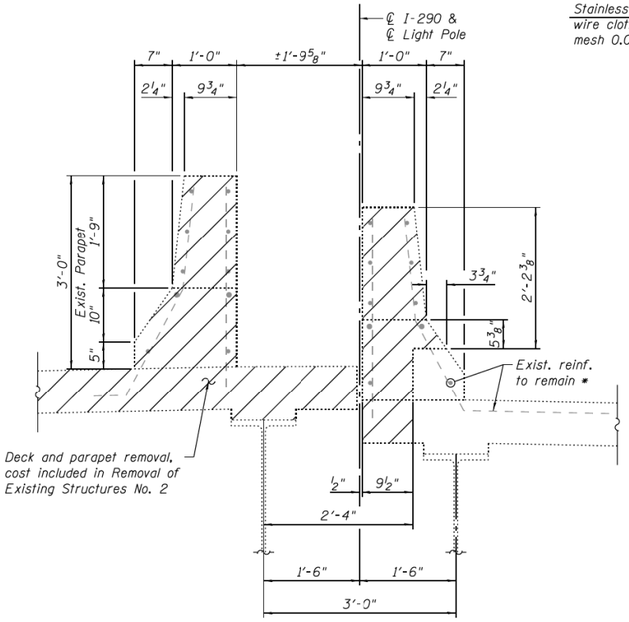
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

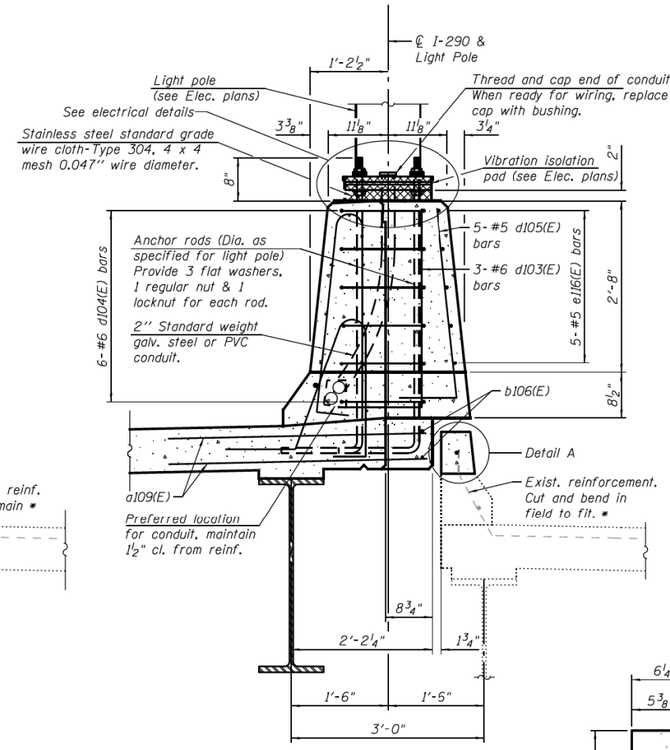
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1687
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.accomonline.local:AECOM_D502_NAIDocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing109
2:14:33 PM

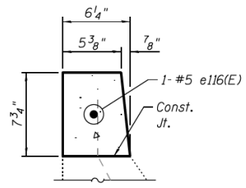
FOR INFORMATION ONLY



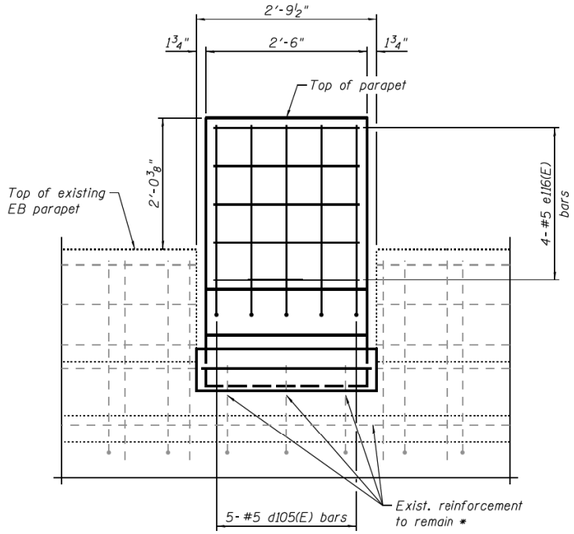
REMOVAL SECTION AT LIGHT POLE



SECTION B-B

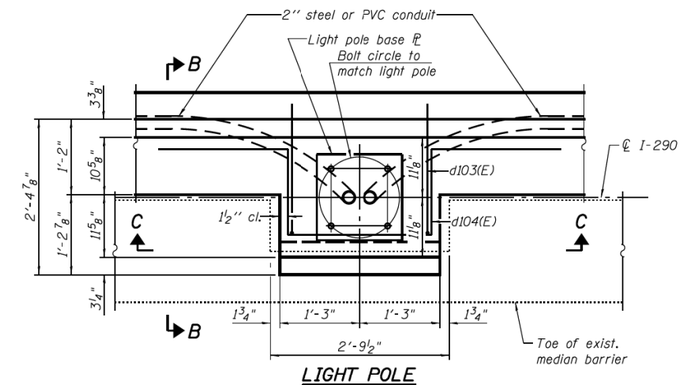


DETAIL A

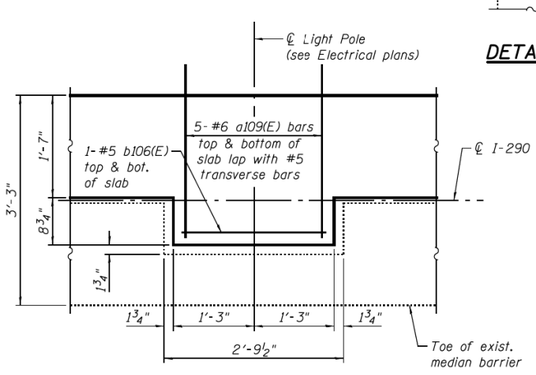


SECTION C-C

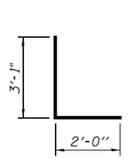
* Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.



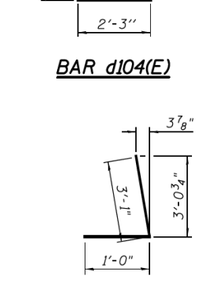
LIGHT POLE
FOUNDATION PLAN



BOTTOM PLAN

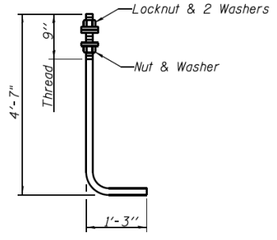


BAR d103(E)



BAR d104(E)

BAR d105(E)



ANCHOR ROD

Dicmeter as specified for light poles. (ASTM F 1554 Grade 105) full length hot dipped galvanized. Cost included with cost of Concrete Superstructure

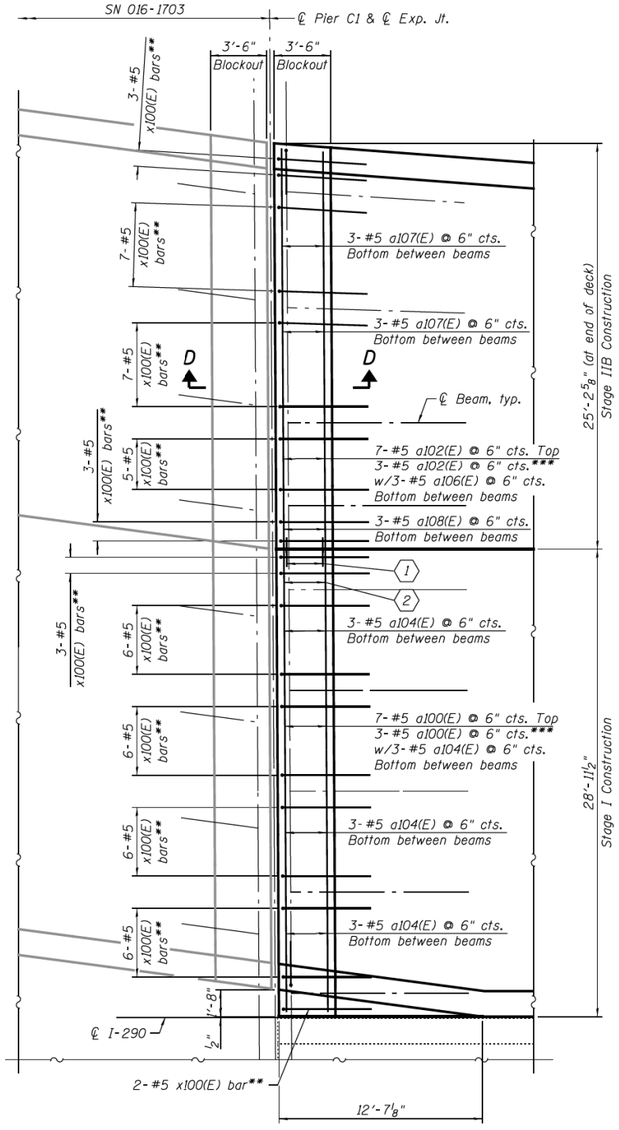
Note:
See sheet S2-51. for superstructure details and Bill of Material.

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK DETAILS IV – UNIT I STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - LFC	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	327
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-50 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

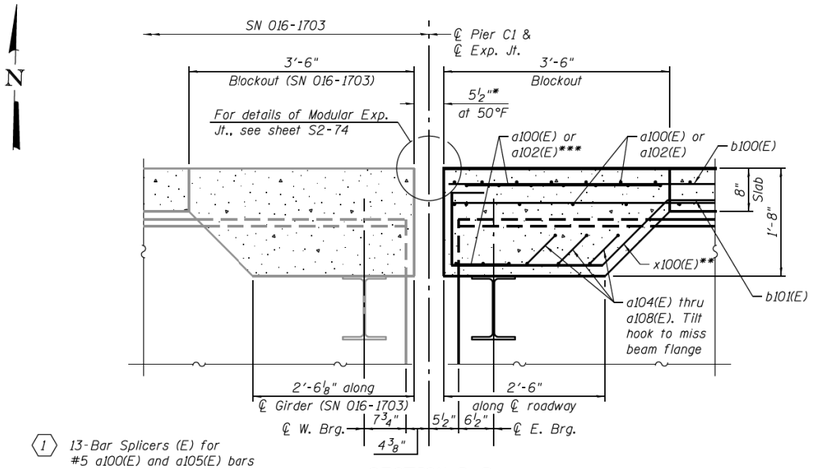
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1688
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing110
0160461-60X78-SD50-DET.dgn
2:14:43 PM

FOR INFORMATION ONLY



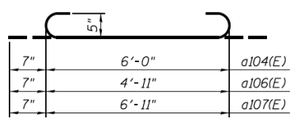
PARTIAL PLAN AT PIER C1



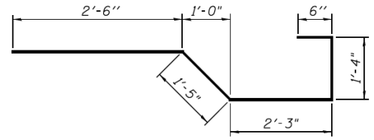
SECTION D-D

(1) 13-Bar Splicers (E) for #5 a100(E) and a105(E) bars top and bottom

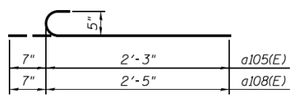
(2) 3-#5 a105(E) @ 6" cts. Bottom between beams



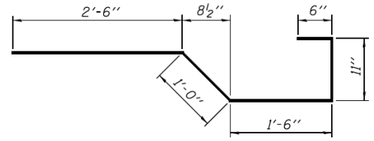
a104(E), a106(E) or a107(E) BAR



BAR x100(E)



a105(E) or a108(E) BAR



BAR x101(E)

* Actual dimension may vary depending on Manufacturer's design

** x100(E) bars to be placed at 12" cts. between beams and adjusted in field to miss support boxes

*** Bars to be adjusted and/or cut in field to miss support boxes and beam webs, as allowed by the Engineer. The Contractor shall reference and coordinate rebar installation with the approved modular joint shop drawings.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	751	#5	28'-7"	
a101(E)	535	#6	6'-6"	
a102(E)	157	#5	24'-10"	
a103(E)	594	#5	21'-4"	
a104(E)	24	#5	7'-2"	
a105(E)	6	#5	2'-10"	
a106(E)	12	#5	6'-1"	
a107(E)	6	#5	8'-1"	
a108(E)	6	#5	3'-0"	
a109(E)	10	#6	7'-2"	
b100(E)	432	#5	32'-5"	
b101(E)	6	#5	26'-8"	
b102(E)	468	#5	29'-2"	
b103(E)	110	#6	32'-0"	
b104(E)	55	#6	24'-5"	
b105(E)	55	#6	22'-10"	
b106(E)	2	#5	2'-3"	
d100(E)	318	#5	6'-10"	
d101(E)	264	#5	6'-2"	
d102(E)	54	#5	7'-2"	
d103(E)	3	#6	5'-1"	
d104(E)	6	#6	8'-11"	
d105(E)	5	#5	4'-1"	
e100(E)	28	#4	16'-8"	
e101(E)	16	#4	12'-3"	
e102(E)	42	#4	18'-1"	
e103(E)	16	#4	12'-5"	
e104(E)	7	#4	12'-7"	
e105(E)	3	#8	26'-0"	
e106(E)	3	#4	23'-10"	
e107(E)	2	#8	12'-3"	
e108(E)	2	#4	28'-5"	
e109(E)	2	#8	30'-0"	
e110(E)	2	#8	12'-5"	
e111(E)	2	#8	30'-2"	
e112(E)	2	#4	28'-7"	
e113(E)	21	#4	15'-9"	
e114(E)	2	#8	26'-7"	
e115(E)	2	#4	25'-0"	
e116(E)	6	#5	2'-3"	
x100(E)	54	#5	7'-6"	
x101(E)	47	#5	6'-5"	
Reinforcement Bars, Epoxy Coated			Pound	91,120
Concrete Superstructure			Cu. Yds.	377.7
Protective Coat			Sq. Yd.	1,462
Bridge Deck Grooving			Sq. Yd.	1,280

0160461-60X78-5051-DET.dgn

PARSONS BRINCKERHOFF			
USER NAME = pateld	DESIGNED - PJL	REVISED -	
	CHECKED - LFC	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK DETAILS V – UNIT I
STRUCTURE NO. 016-0461
SHEET NO. S2-51 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	328
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\6171479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing111
2:14:53 PM

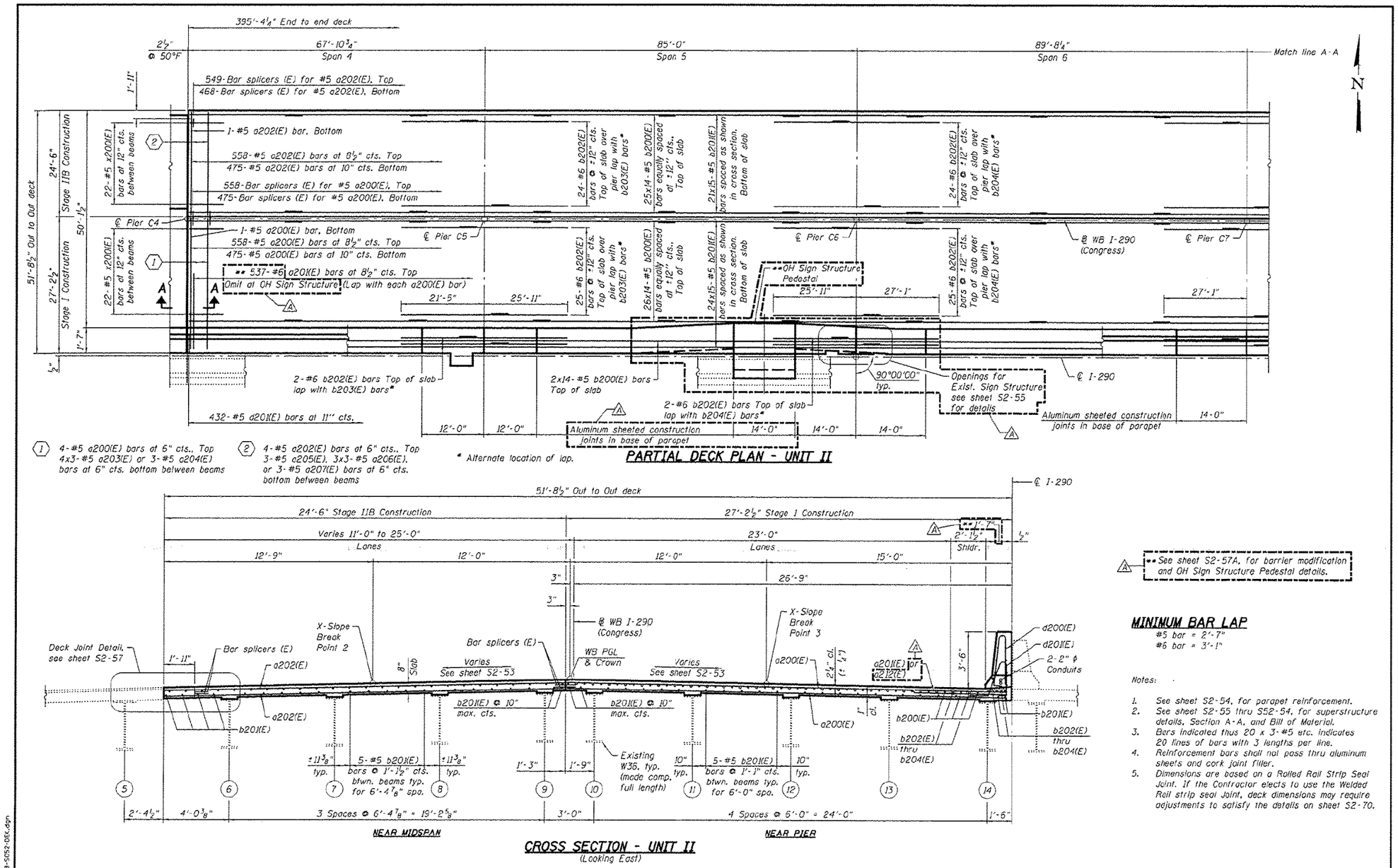
HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1689
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



PARTIAL DECK PLAN - UNIT II

NEAR MIDSPAN NEAR PIER

CROSS SECTION - UNIT II

(Looking East)

A See sheet S2-57A, for barrier modification and OH Sign Structure Pedestal details.

MINIMUM BAR LAP

#5 bar = 2'-7"
#6 bar = 3'-1"

Notes:

1. See sheet S2-54, for parapet reinforcement.
2. See sheet S2-55 thru S52-54, for superstructure details, Section A-A, and Bill of Material.
3. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
4. Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.
5. Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail strip seal joint, deck dimensions may require adjustments to satisfy the details on sheet S2-70.

PARSONS BRINCKERHOFF	USER NAME = potald	DESIGNED - PJL	REVISED - A 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK PLAN I – UNIT II STRUCTURE NO. 016-0461 SHEET NO. 52-52 OF 52-145 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	329
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -					ILLINOIS FED. AID PROJECT		

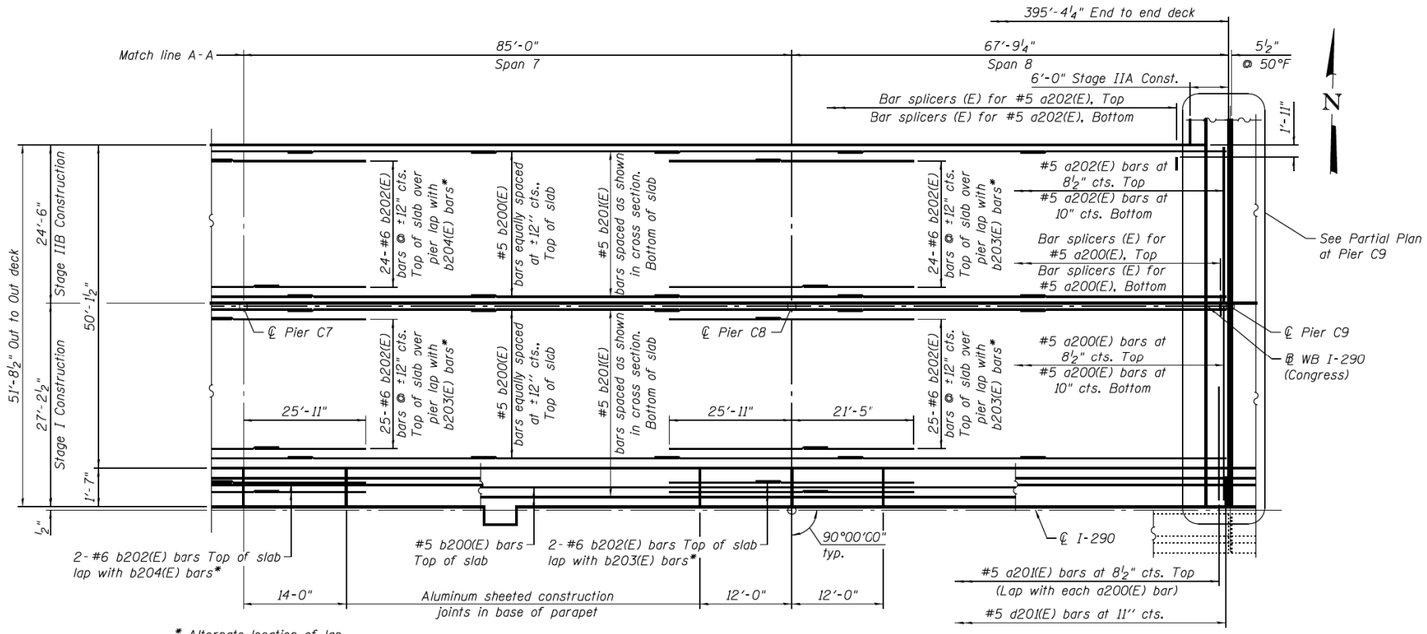
016046I-60X78-S052-DSK.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1690
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing112

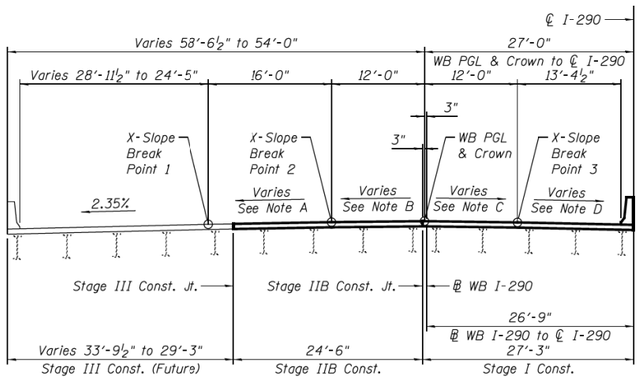
2:15:02 PM

FOR INFORMATION ONLY



* Alternate location of lap.

PARTIAL DECK PLAN - UNIT II



DECK CROSS SLOPES - UNIT II

(Looking East)

Note A: (Direction of slope referenced from WB Crown)
Transition (-2.00% to -1.75%) Sta. 5210+50.43 to Sta. 5209+99.01
Constant cross slope (-1.75%) Sta. 5209+99.01 to Sta. 5207+49.01
Transition (-1.75% to -2.08%) Sta. 5207+49.01 to Sta. 5207+24.01
Constant cross slope (-2.08%) Sta. 5207+24.01 to Sta. 5206+54.74

Note B: (Direction of slope referenced from WB Crown)
Transition (-2.08% to -1.25%) Sta. 5210+50.43 to Sta. 5209+99.01
Constant cross slope (-1.25%) Sta. 5209+99.01 to Sta. 5208+99.01
Transition (-1.25% to -1.04%) Sta. 5208+99.01 to Sta. 5208+89.01
Constant cross slope (-1.04%) Sta. 5208+89.01 to Sta. 5206+54.74

Note C: (Direction of slope referenced from WB Crown)
Transition (1.25% to 0%) Sta. 5210+50.43 to Sta. 5209+99.01
Transition (0% to -1.04%) Sta. 5209+99.01 to Sta. 5209+19.01
Constant cross slope (-1.04%) Sta. 5209+19.01 to Sta. 5208+69.01
Transition (-1.04% to -1.35%) Sta. 5208+69.01 to Sta. 5208+59.01
Constant cross slope (-1.35%) Sta. 5208+59.01 to Sta. 5206+99.01
Transition (-1.35% to -1.04%) Sta. 5206+99.01 to Sta. 5206+74.01
Constant cross slope (-1.04%) Sta. 5206+74.01 to Sta. 5206+54.74

Note D: (Direction of slope referenced from WB Crown)
Transition (1.37% to -0.20%) Sta. 5210+50.43 to Sta. 5210+09.01
Transition (-0.20% to -2.08%) Sta. 5209+09.01 to Sta. 5209+19.01
Constant cross slope (-2.08%) Sta. 5209+19.01 to Sta. 5206+54.74

MINIMUM BAR LAP

#5 bar = 2'-7"
#6 bar = 3'-1"

Notes:

1. *See sheet S2-54, for parapet reinforcement.*
2. *See sheet S2-55 thru S52-54, for superstructure details, Section A-A, and Bill of Material.*
3. *See sheet S2-63, for Partial Plan at Pier C9.*
3. *Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.*
4. *Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.*

0160461-60X78-S053-DEK.dgn

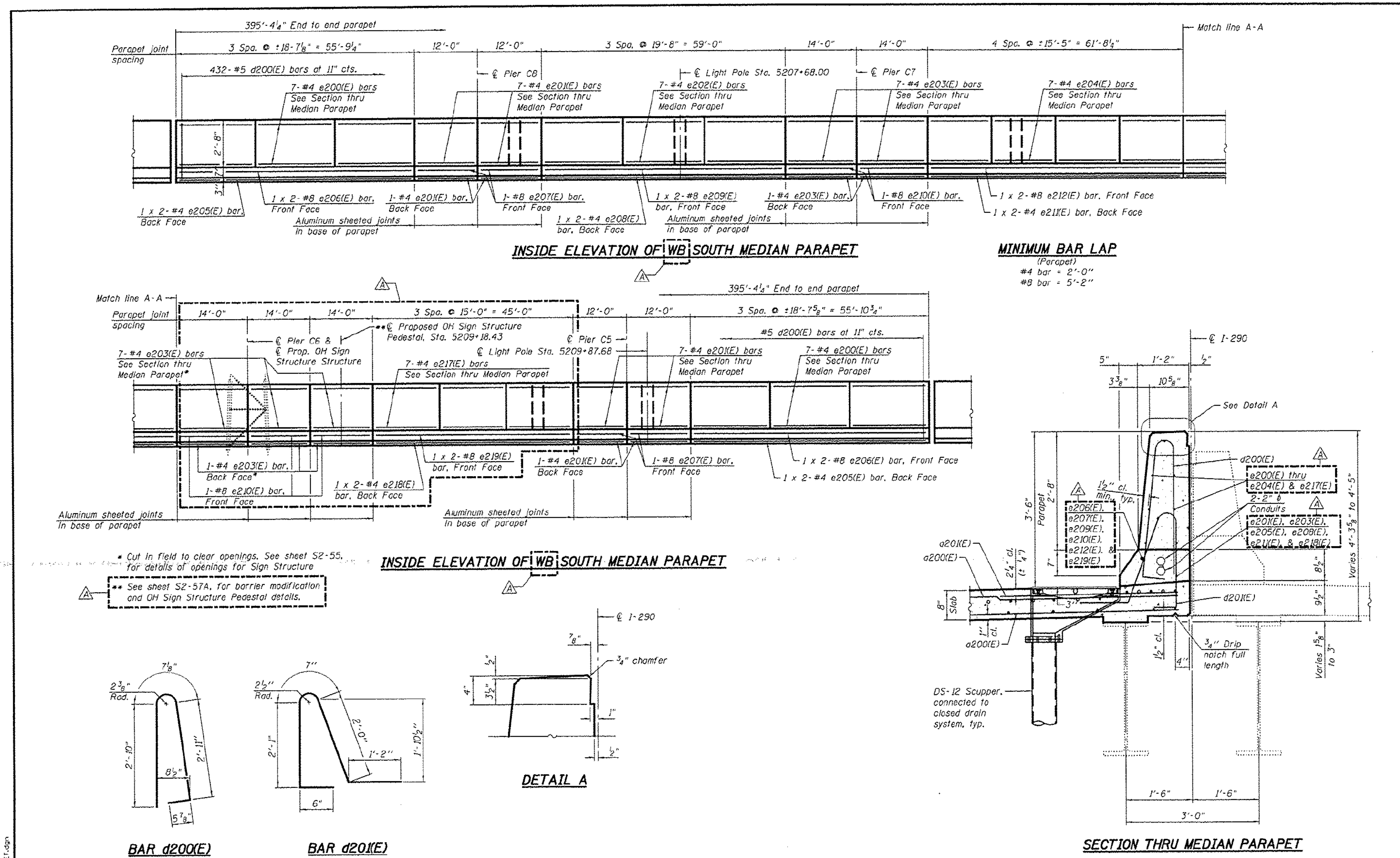
PARSONS BRINCKERHOFF				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK PLAN II – UNIT II STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = poteld	DESIGNED - PJL	REVISED -				90/94/290	2014-004 R&B (WB)	COOK	706	330
	CHECKED - JZ	REVISED -						CONTRACT NO. 60X78		
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -			SHEET NO. S2-53 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -								

HBM ENGINEERING GROUP, LLC				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = ahmad.issa	DESIGNED -	REVISED -				90/94/290	2014-013R&B-R	COOK	1972	1691
	CHECKED -	REVISED -						CONTRACT NO. 60X93		
PLOT SCALE = N.T.S	DRAWN -	REVISED -						ILLINOIS	FED. AID PROJECT	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -								

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing113

2:15:11 PM

FOR INFORMATION ONLY



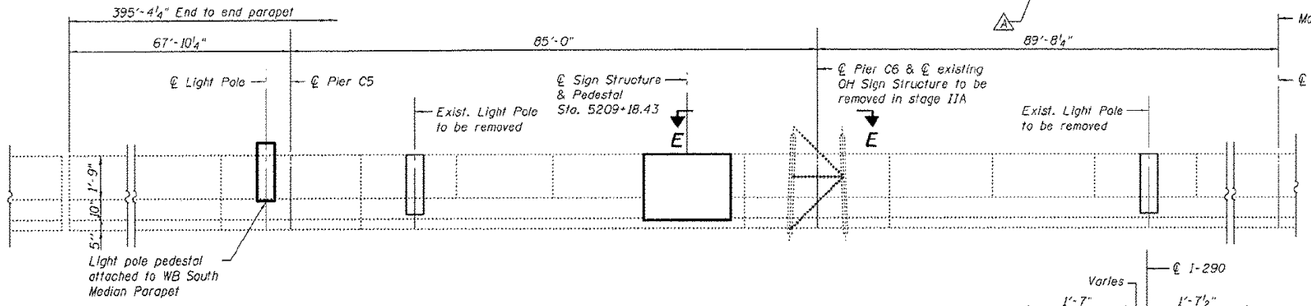
INSIDE ELEVATION OF WB SOUTH MEDIAN PARAPET
395'-4¼" End to end parapet
Parapet joint spacing
3 Spa. @ ±18'-7⅛" = 55'-9¼"
12'-0"
3 Spa. @ 19'-8" = 59'-0"
14'-0"
4 Spa. @ ±15'-5" = 61'-8¼"
Match line A-A
432-#5 d200(E) bars at 11" cts.
℄ Pier C8
℄ Light Pole Sta. 5207+68.00
℄ Pier C7
7-#4 e200(E) bars See Section thru Median Parapet
7-#4 e201(E) bars See Section thru Median Parapet
7-#4 e202(E) bars See Section thru Median Parapet
7-#4 e203(E) bars See Section thru Median Parapet
7-#4 e204(E) bars See Section thru Median Parapet
1 x 2-#4 e205(E) bar, Back Face
1 x 2-#8 e206(E) bar, Front Face
1-#4 e201(E) bar, Back Face
1-#8 e207(E) bar, Front Face
1 x 2-#4 e208(E) bar, Back Face
1 x 2-#8 e209(E) bar, Front Face
1-#4 e203(E) bar, Back Face
1-#8 e210(E) bar, Front Face
1 x 2-#8 e212(E) bar, Front Face
1 x 2-#4 e211(E) bar, Back Face
Aluminum sheeted joints in base of parapet
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"
INSIDE ELEVATION OF WB SOUTH MEDIAN PARAPET
Match line A-A
14'-0"
3 Spa. @ 15'-0" = 45'-0"
3 Spa. @ ±18'-7⅝" = 55'-10¾"
#5 d200(E) bars at 11" cts.
℄ Pier C6 & ℄ Prop. OH Sign Structure Structure
** ℄ Proposed OH Sign Structure Pedestal, Sta. 5209+18.43
℄ Pier C5
℄ Light Pole Sta. 5209+87.68
7-#4 e203(E) bars See Section thru Median Parapet*
7-#4 e217(E) bars See Section thru Median Parapet
1-#4 e203(E) bar, Back Face*
1-#8 e210(E) bar, Front Face
1 x 2-#4 e218(E) bar, Back Face
1 x 2-#8 e219(E) bar, Front Face
1 x 2-#8 e206(E) bar, Front Face
1 x 2-#4 e205(E) bar, Back Face
* Cut in field to clear openings. See sheet S2-55, for details of openings for Sign Structure
** See sheet S2-57A, for barrier modification and OH Sign Structure Pedestal details.
BAR d200(E)
BAR d201(E)
DETAIL A
¾" chamfer
℄ I-290
SECTION THRU MEDIAN PARAPET
See Detail A
e200(E) thru e204(E) & e217(E)
2-2" ⌀ Conduits
e201(E), e203(E), e205(E), e208(E), e211(E), & e218(E)
e206(E), e207(E), e209(E), e210(E), e212(E), & e219(E)
d200(E)
d201(E)
¾" Drip notch full length
DS-12 Scupper, connected to closed drain system, typ.
Varies 4'-3⅝" to 4'-5"
Varies 1⅝" to 3"

PARSONS BRINCKERHOFF	USER NAME = pateld PLOT SCALE = N.T.S. PLOT DATE = 5/16/2016	DESIGNED - PJL CHECKED - JZ DRAWN - DCP CHECKED - JJG	REVISED - 4/27/2016 JJG REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

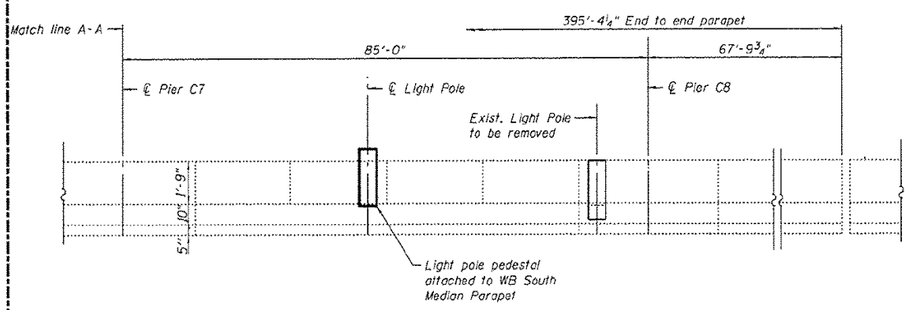
DECK DETAILS I – UNIT II
STRUCTURE NO. 016-0461
SHEET NO. S2-54 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	331
CONTRACT NO. 60X78				

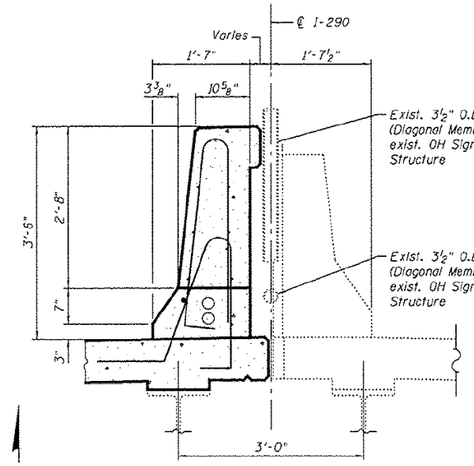
FOR INFORMATION ONLY



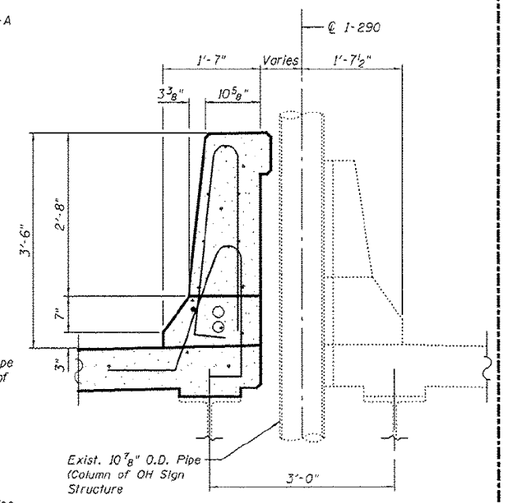
INSIDE ELEVATION OF EB EXIST. NORTH MEDIAN PARAPET



INSIDE ELEVATION OF EB EXIST. NORTH MEDIAN PARAPET



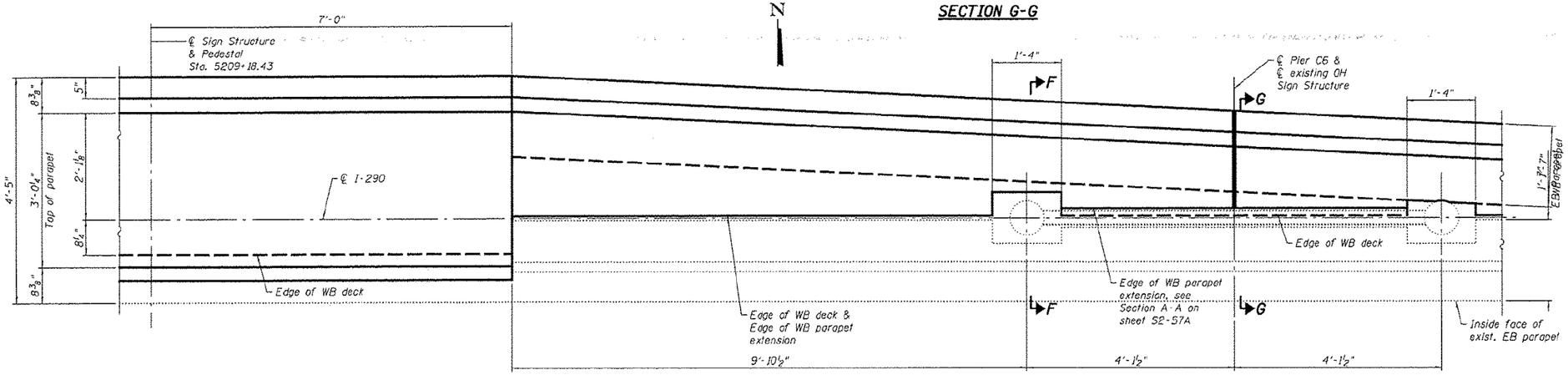
SECTION G-G



SECTION F-F

Notes:

1. See sheet S2-20, for Removal Details.
2. See sheet S2-57, for superstructure details and Bill of Material.



VIEW E-E

PARSONS BRINCKERHOFF	USER NAME = potoldi	DESIGNED - PJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK DETAILS II – UNIT II STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	332
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -					CONTRACT NO. 60X78		
					SHEET NO. S2-55 OF S2-145 SHEETS			ILLINOIS FED. AID PROJECT		

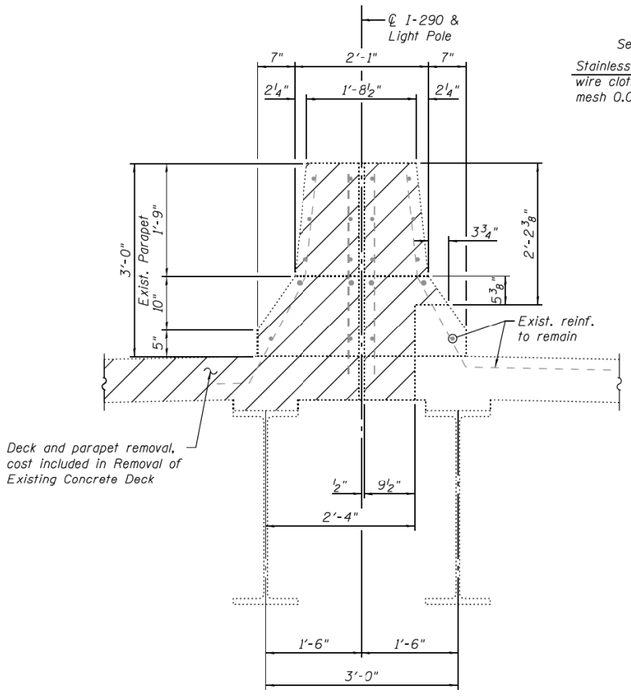
060451-60X78-S055-DET.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1693
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -					ILLINOIS FED. AID PROJECT		

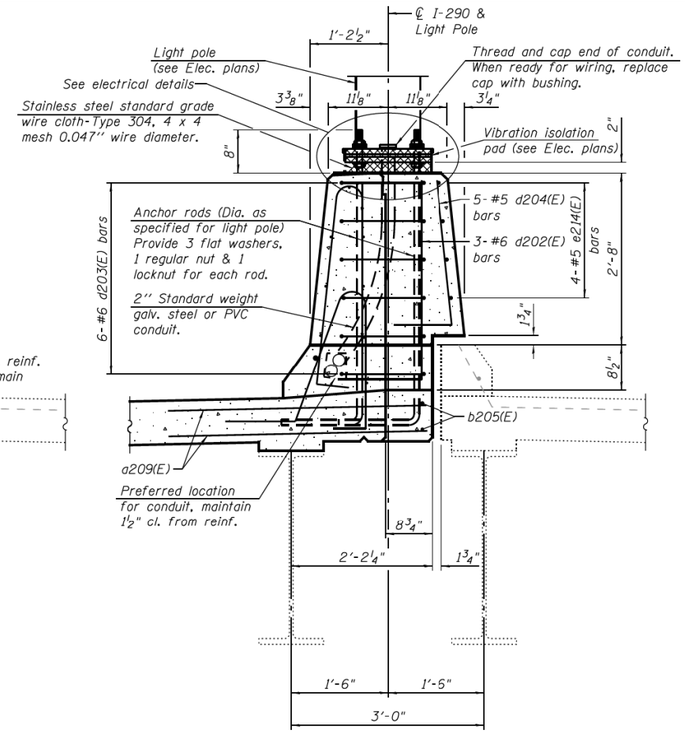
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NAIDocuments\01 Americas\Transportation\60269938 CircletPhase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\13906-60X93-SXX-Existing115

2:15:28 PM

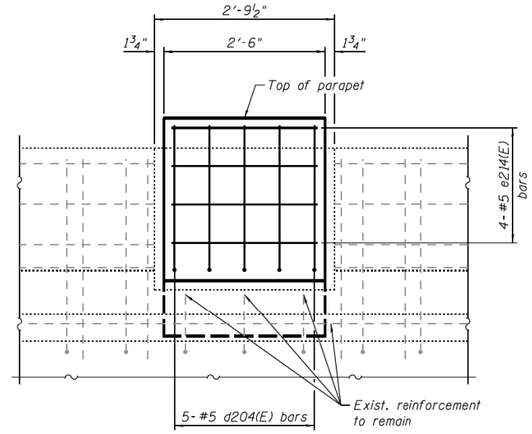
FOR INFORMATION ONLY



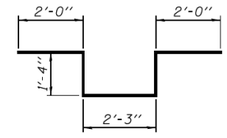
REMOVAL SECTION AT LIGHT POLE



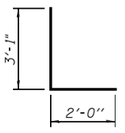
SECTION H-H



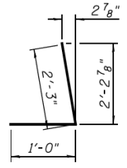
SECTION I-I



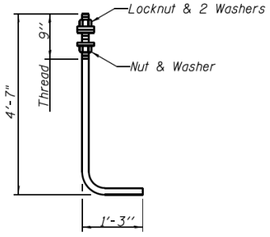
BAR d203(E)



BAR d202(E)

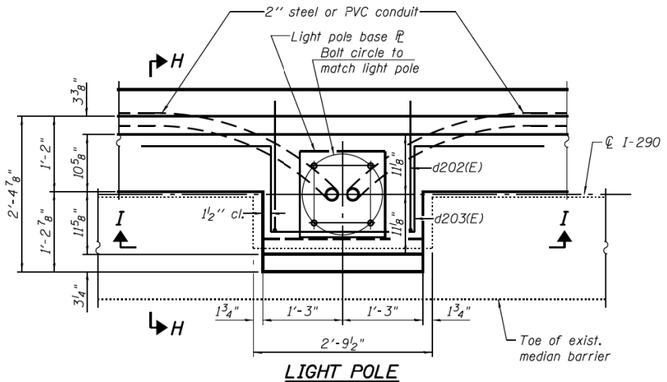


BAR d204(E)

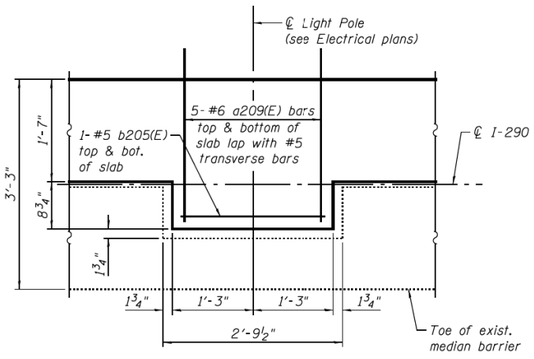


ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) full length hot dipped galvanized. Cost included with cost of Concrete Superstructure



LIGHT POLE
FOUNDATION PLAN



BOTTOM PLAN

Note:
See sheet S2-57, for superstructure details and Bill of Material.

0160461-60X78-S056-DET.dgn

PARSONS BRINCKERHOFF			
USER NAME = poteld	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - JZ	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -	

DECK DETAILS III – UNIT II
STRUCTURE NO. 016-0461
SHEET NO. S2-56 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	333
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC			
USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

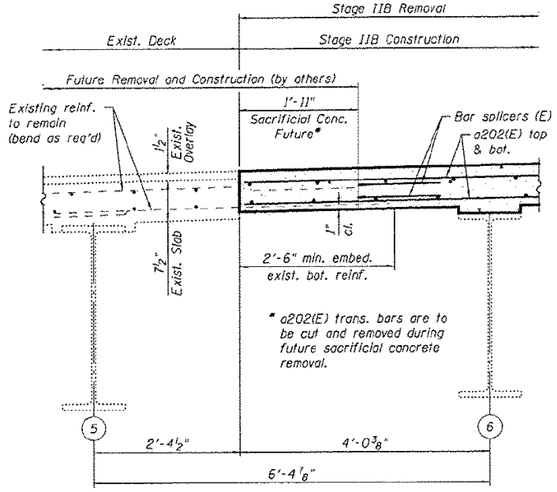
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1694
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

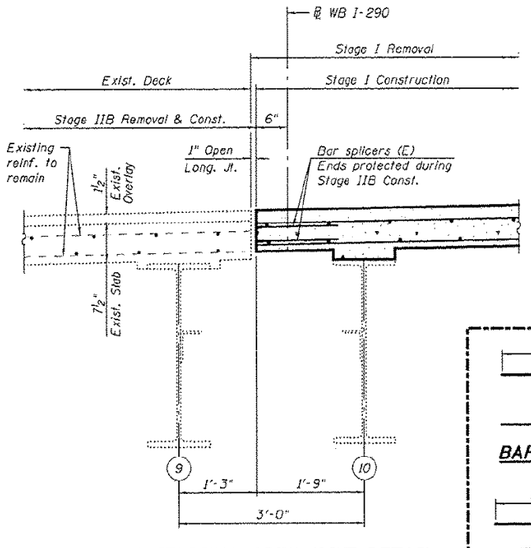
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing116

2:15:36 PM

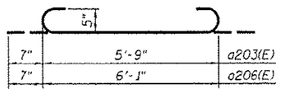
FOR INFORMATION ONLY



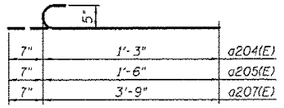
DECK JOINT DETAIL
FOR FINAL TRAFFIC "CROSS OVER"



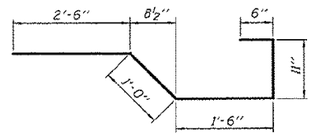
LONGITUDINAL OPEN JOINT DETAIL
FOR STAGE IIA TRAFFIC "CROSS OVER"



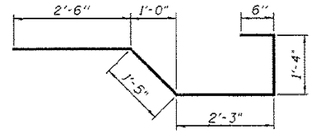
a203(E) or a206(E) BAR



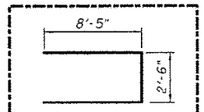
⚠A a204(E), a205(E) or a207(E) BAR



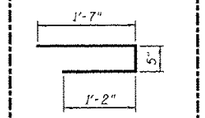
BAR x200(E)



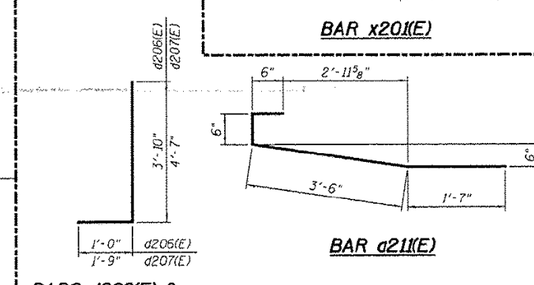
BAR x201(E)



BAR d208(E)



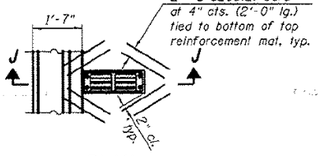
BAR d205(E)



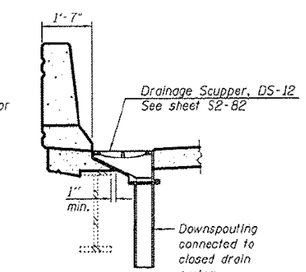
BARS d206(E) & d207(E)

BAR d211(E)

SECTION A-A



PLAN



SECTION J-J

Note:

1. Cut longitudinal reinforcement to clear drainage scuppers.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Removal of Existing Concrete Deck.
3. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Removal of Existing Concrete Deck.

SUPERSTRUCTURE BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	a200(E)	1,048	#5	26'-9"	
⚠A	a201(E)	546	#6	6'-6"	
	a202(E)	1,048	#5	24'-3"	
	a203(E)	20	#5	6'-11"	
	a204(E)	4	#5	1'-10"	
	a205(E)	4	#5	2'-1"	
	a206(E)	12	#5	7'-3"	
	a207(E)	4	#5	4'-4"	
	a208(E)	64	#5	2'-0"	
	a209(E)	20	#6	7'-2"	
	a210(E)	27	#5	31'-6"	
⚠A	a211(E)	17	#5	8'-1"	
	a212(E)	21	#7	10'-1"	
	b200(E)	742	#5	30'-7"	
	b201(E)	690	#5	28'-8"	
	b202(E)	204	#6	32'-0"	
	b203(E)	102	#6	18'-5"	
	b204(E)	102	#6	24'-1"	
	b205(E)	4	#5	2'-3"	
	b206(E)	51	#5	5'-8"	
⚠A	b207(E)	10	#5	13'-9"	
	d200(E)	440	#5	6'-11"	
	d201(E)	440	#5	6'-4"	
	d202(E)	6	#6	5'-1"	
	d203(E)	12	#6	8'-11"	
	d204(E)	25	#5	3'-3"	
	d205(E)	42	#5	3'-2"	
⚠A	d206(E)	15	#6	4'-10"	
	d207(E)	21	#6	6'-4"	
	d208(E)	12	#6	19'-4"	
	e200(E)	42	#4	18'-4"	
	e201(E)	32	#4	11'-9"	
⚠A	e202(E)	21	#4	19'-5"	
	e203(E)	42	#4	13'-9"	
	e204(E)	28	#4	15'-2"	
	e205(E)	4	#4	28'-9"	
	e206(E)	4	#8	30'-4"	
	e207(E)	4	#8	11'-9"	
	e208(E)	4	#4	30'-5"	
	e209(E)	4	#8	32'-0"	
⚠A	e210(E)	5	#8	13'-9"	
	e211(E)	4	#4	31'-9"	
	e212(E)	4	#8	33'-4"	
	e213(E)	10	#4	3'-8"	
	e214(E)	8	#5	2'-3"	
	e215(E)	8	#4	5'-8"	
	e216(E)	1	#8	5'-8"	
⚠A	e217(E)	23	#4	14'-9"	
	e218(E)	2	#4	23'-5"	
⚠A	e219(E)	2	#8	25'-0"	
	e220(E)	4	#4	9'-0"	
	e221(E)	4	#5	13'-8"	
	x200(E)	44	#5	6'-5"	
	x201(E)	68	#5	7'-6"	

Reinforcement Bars, Epoxy Coated	Pound	136,030	⚠A
Concrete Superstructure	Cu. Yds.	620.3	⚠A
Protective Coat	Sq. Yd.	2,428	
Bridge Deck Grooving	Sq. Yd.	2,175	

PARSONS BRINCKERHOFF	USER NAME = patoiq	DESIGNED - PJL	REVISED - ⚠A 4/27/2016 JJG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - JZ	REVISED -	
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
	PLOT DATE = 5/16/2016	CHECKED - JJG	REVISED -	

DECK DETAILS IV – UNIT II
STRUCTURE NO. 016-0461
SHEET NO. 52-57 OF 52-145 SHEETS

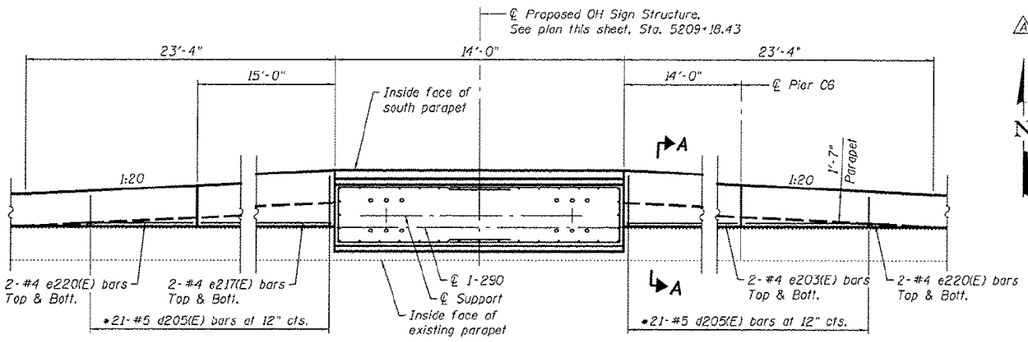
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	334
		CONTRACT NO. 60X78		
	ILLINOIS	FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED -	REVISED -	
	PLOT SCALE = N.T.S	DRAWN -	REVISED -	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

EXISTING RECORD DRAWINGS

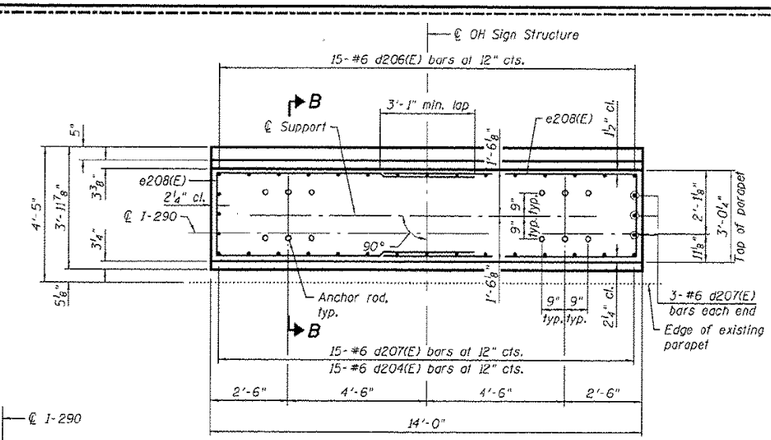
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1695
		CONTRACT NO. 60X93		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

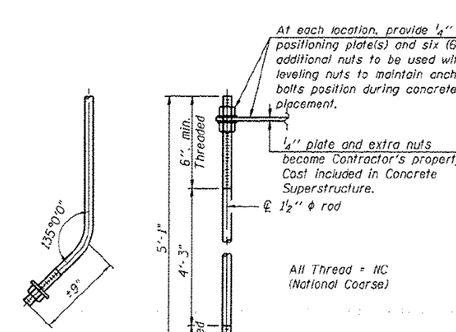


*Cut to fit in field

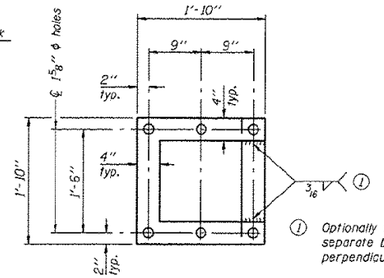
WB MEDIAN PARAPET PARTIAL PLAN



OH SIGN STRUCTURE PEDESTAL PLAN
WB SOUTH PARAPET
(Parapet reinforcement not shown for clarity)



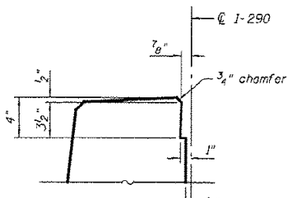
BEND DETAIL



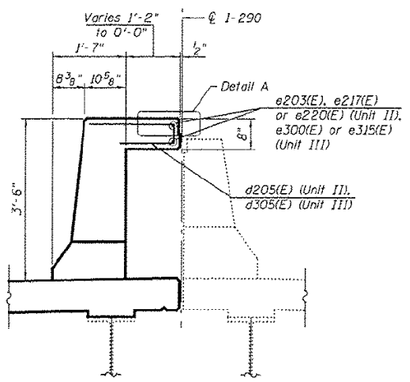
ANCHOR ROD DETAIL

(6 Straight Rods Req'd & 6 Bent Rods Req'd - Unit II)
(16 Straight Rods Req'd & 6 Bent Rods Req'd - Unit III)
Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.
Cost included with Concrete Superstructure.

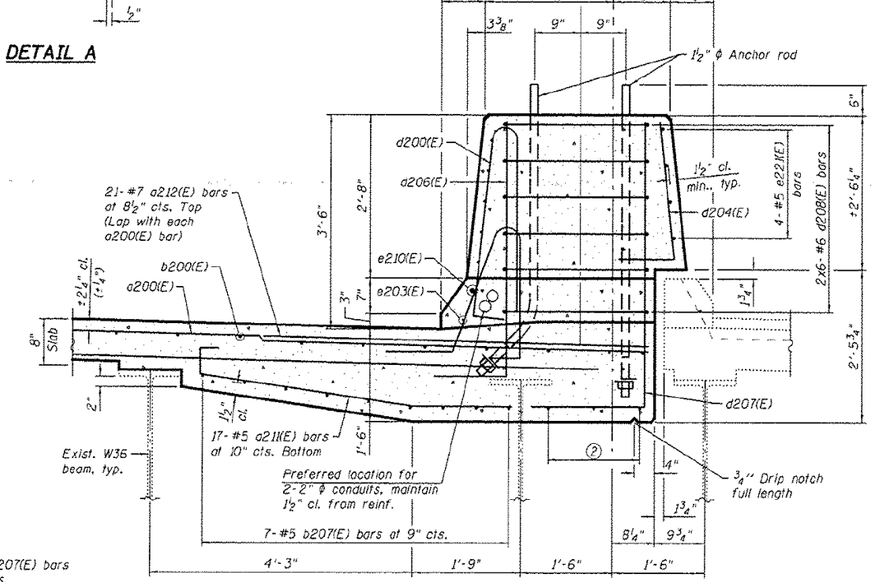
POSITIONING PLATE(S)



DETAIL A



SECTION A-A



SECTION B-B

Note:

1. For sign structure, see Civil Plans.

② 3-#5 b207(E) bars at 9" cts.

PARSONS BRINCKERHOFF	USER NAME = patgld	DESIGNED - ---	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK DETAILS V – UNIT II STRUCTURE NO. 016-0461 SHEET NO. S2-57A OF S2-145 SHEETS
		CHECKED - ---	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -		
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	334A
		CONTRACT NO. 60X78		
		ILLINOIS	FED. AID PROJECT	

0160451-60X78-S057A-WET.dgn

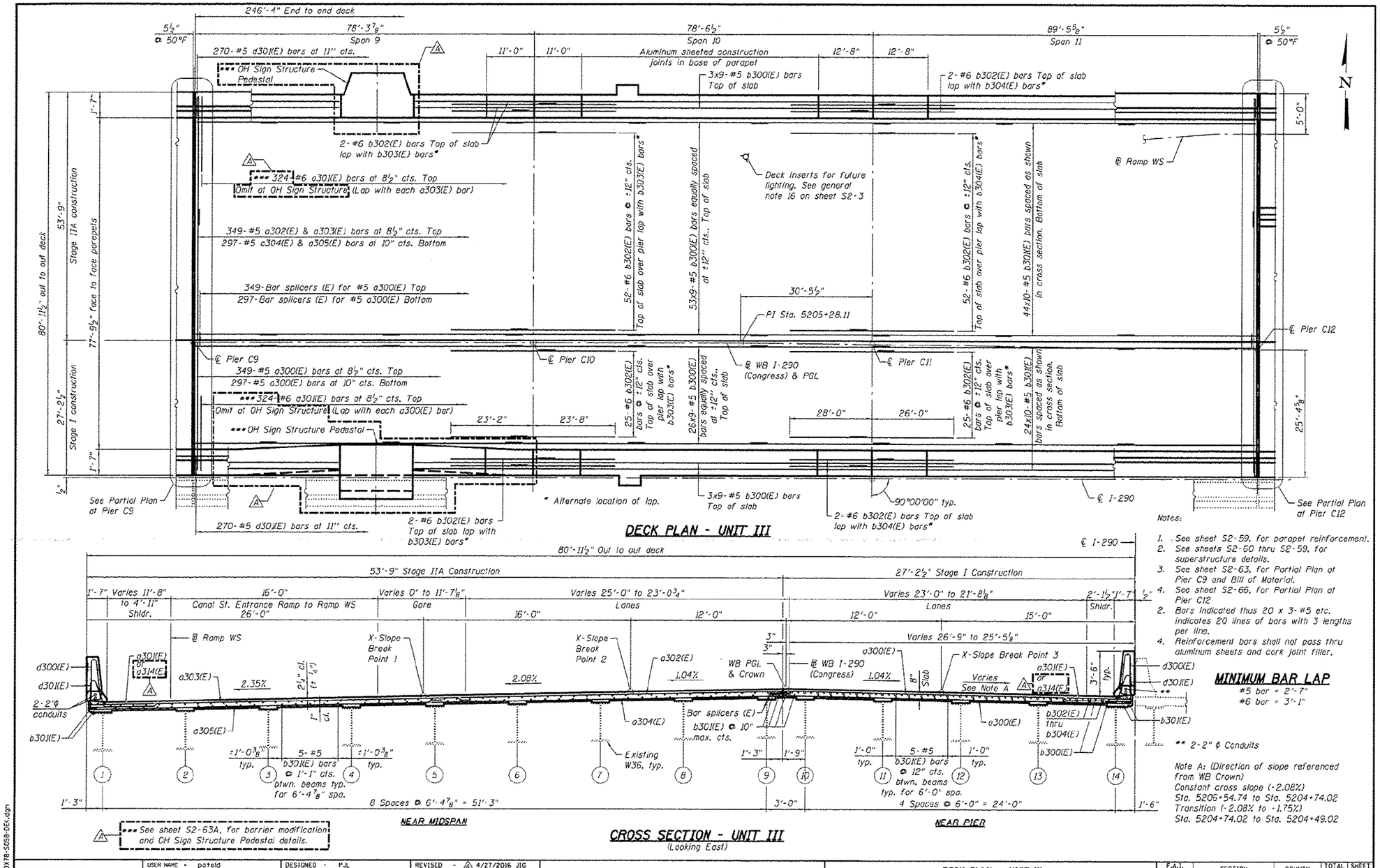
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS
		CHECKED -	REVISED -		
	PLOT SCALE = N.T.S	DRAWN -	REVISED -		
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1696
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing118

2:15:54 PM

FOR INFORMATION ONLY



DECK PLAN - UNIT III

NEAR MIDSPAN

NEAR PIER

*** See sheet S2-63A, for barrier modification and OH Sign Structure Pedestal details.

CROSS SECTION - UNIT III

(Looking East)

Notes:

1. See sheet S2-59, for parapet reinforcement.
2. See sheets S2-60 thru S2-59, for superstructure details.
3. See sheet S2-63, for Partial Plan at Pier C9 and Bill of Material.
4. See sheet S2-66, for Partial Plan at Pier C12
2. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
4. Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.

MINIMUM BAR LAP

#5 bar = 2'-7"
#6 bar = 3'-1"

** 2-2" ϕ Conduits

Note A: (Direction of slope referenced from WB Crown)
Constant cross slope (-2.08%) Sta. 5205+54.74 to Sta. 5204+74.02
Transition (-2.08% to -1.75%) Sta. 5204+74.02 to Sta. 5204+49.02

PARSONS BRINCKERHOFF			
USER NAME = pateld	DESIGNED - PJL	REVISED - ⚠ 4/27/2016 JIG	
	CHECKED - JZ	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -	
PLOT DATE = 5/16/2016	CHECKED - JJG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN – UNIT III
STRUCTURE NO. 016-0461
SHEET NO. S2-58 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	335
		CONTRACT NO. 60X78		
	ILLINOIS FED. AID PROJECT			

0160461-60X78-S058-DEC.dgn

HBM ENGINEERING GROUP, LLC

USER NAME = ahmad.issa	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -	
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -	

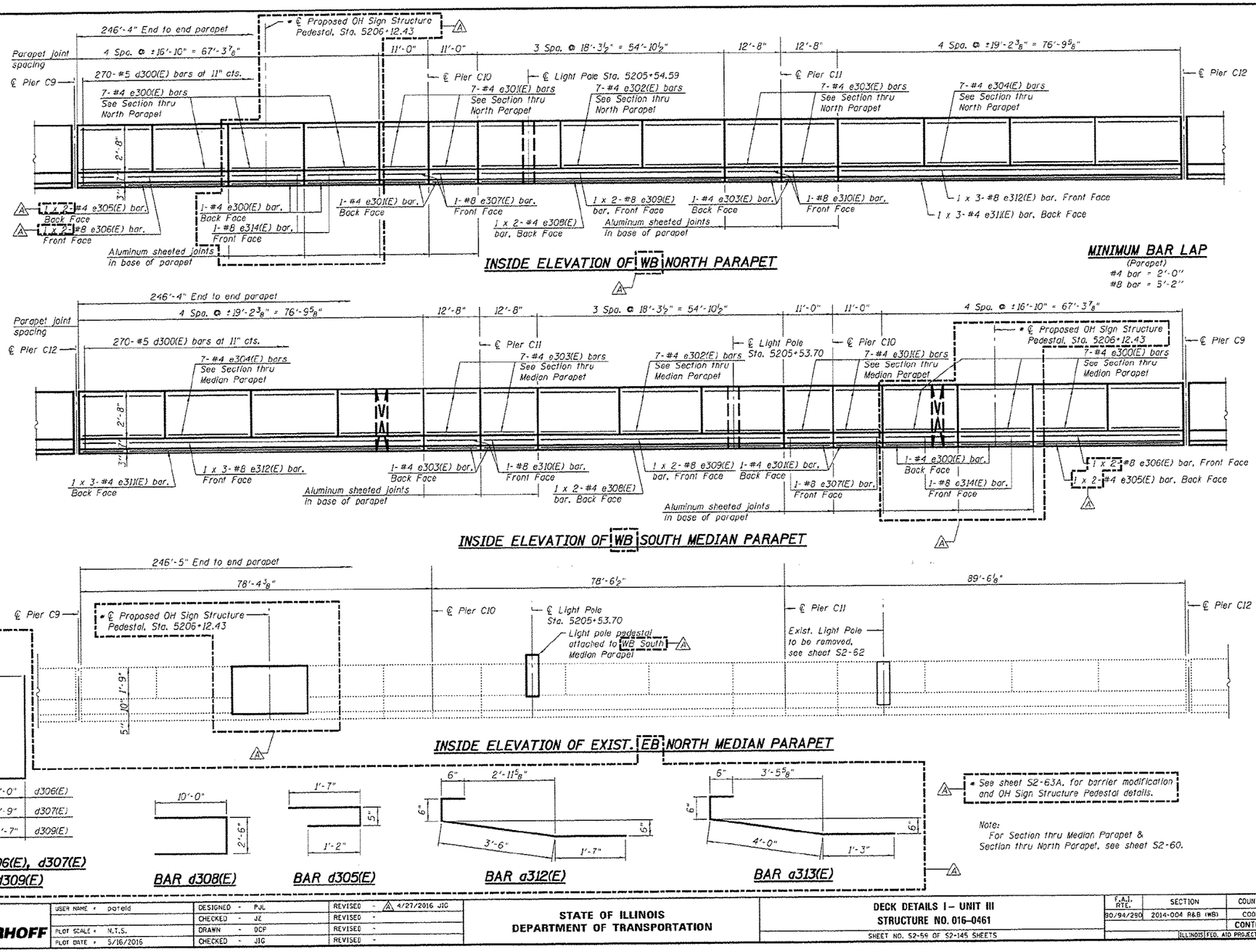
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1697
		CONTRACT NO. 60X93		
	ILLINOIS FED. AID PROJECT			

FILE NAME: pw:\\617479-PWINT.accomonline.local:AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 CirclePhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\13906-60X93-SXX-Existing119
2:16:04 PM

FOR INFORMATION ONLY



PARSONS BRINCKERHOFF	USER NAME = pateld	DESIGNED - PJL	REVISED - ⚠ 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK DETAILS I – UNIT III STRUCTURE NO. 016-0461 SHEET NO. 52-59 OF 52-145 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	336
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -					CONTRACT NO. 60X78		
	PLOT DATE = 5/16/2016	CHECKED - JIG	REVISED -					ILLINOIS	FED. AID PROJECT	

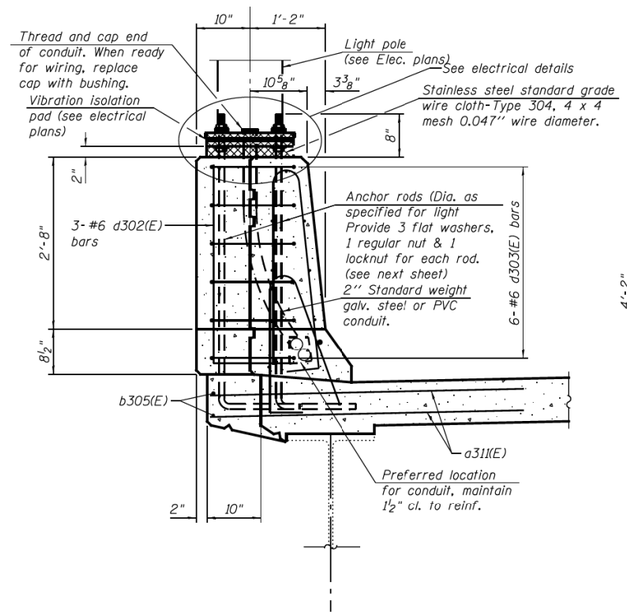
016041E 60X78 5059 DET.dgn

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1698
	PLOT SCALE = N.T.S	DRAWN -	REVISED -					CONTRACT NO. 60X93		
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

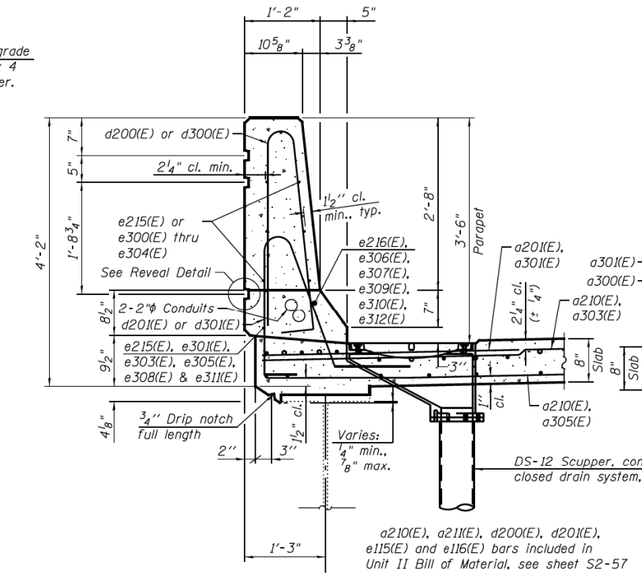
FILE NAME: pw:\0171479-PWINT.aecomonline.localsAECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_StructuralStructure_016-1718\Existing Plans\33906-60X93-SXX-Existing120

2:16:12 PM

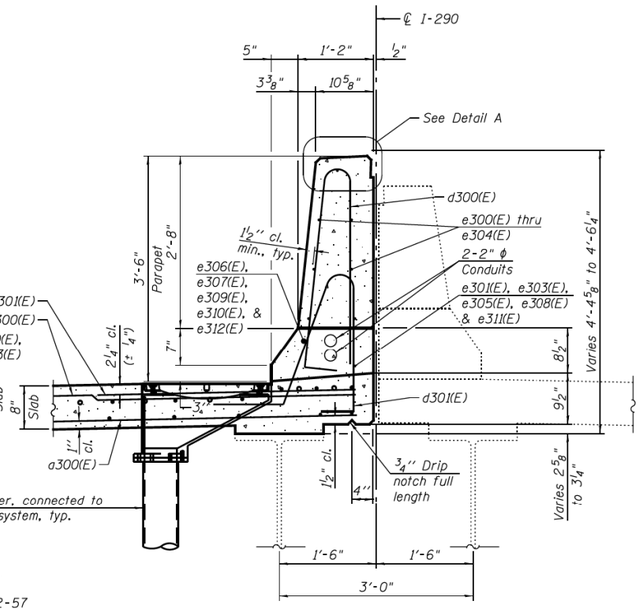
FOR INFORMATION ONLY



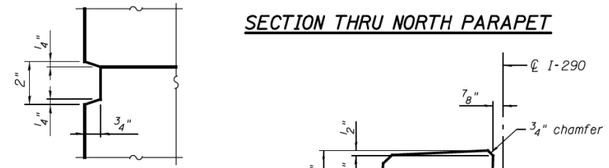
SECTION L-L



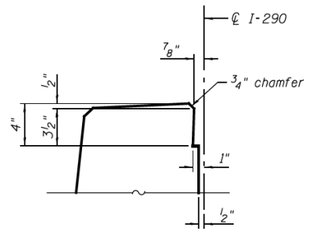
SECTION THRU NORTH PARAPET



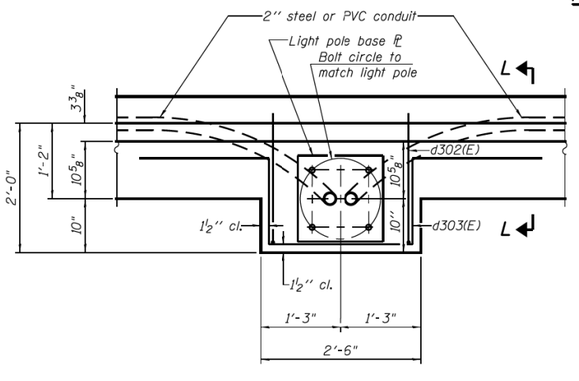
SECTION THRU MEDIAN PARAPET



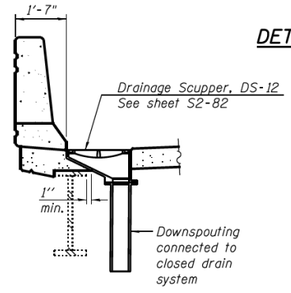
REVEAL DETAIL



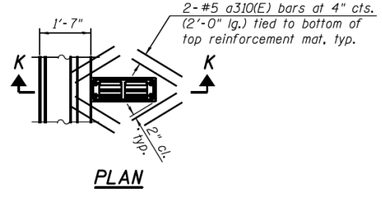
DETAIL A



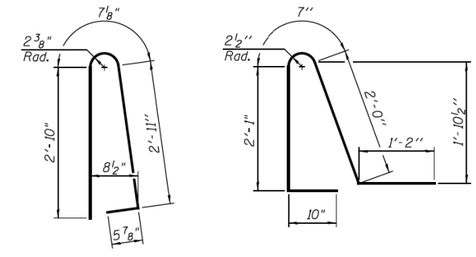
PLAN



SECTION K-K



PLAN



BAR d300(E) BAR d301(E)

Notes:

1. See sheet S2-60, for anchor rod details.
2. See sheet S2-63, for Bill of Material.
3. Reveal is included in cost of Concrete Superstructure.
4. Cut longitudinal reinforcement to clear drainage scupper.

0160461-60X78-S060-DET.dgn

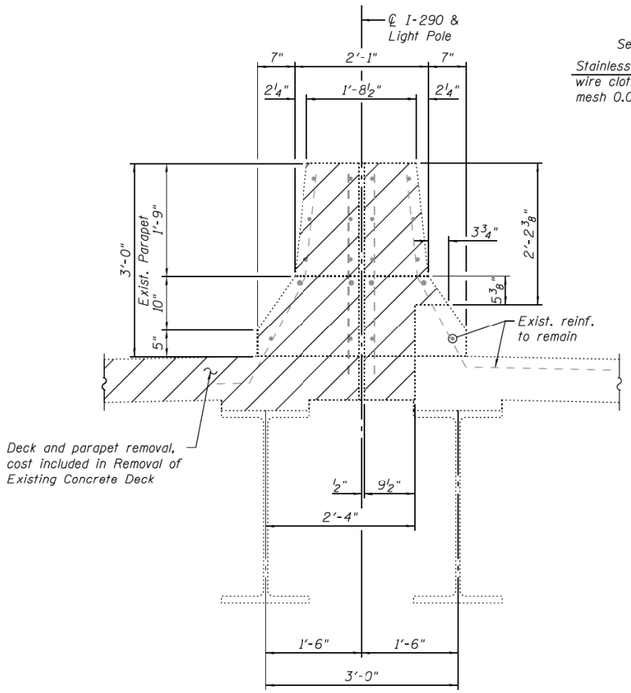
PARSONS BRINCKERHOFF	USER NAME = potetd	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK DETAILS II – UNIT III STRUCTURE NO. 016–0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JZ	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	337
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -						CONTRACT NO. 60X78	
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -		SHEET NO. S2-60 OF S2-145 SHEETS			ILLINOIS	FED. AID PROJECT	

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1699
	PLOT SCALE = N.T.S	DRAWN -	REVISED -						CONTRACT NO. 60X93	
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					ILLINOIS	FED. AID PROJECT	

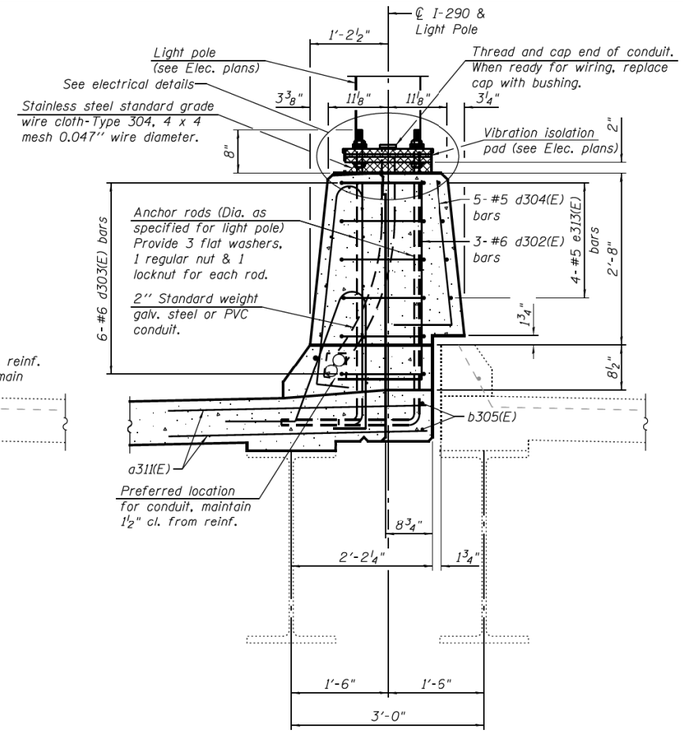
FILE NAME: pw:\\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing121

2:16:20 PM

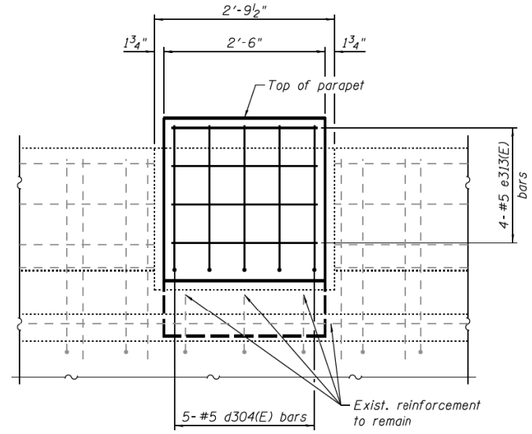
FOR INFORMATION ONLY



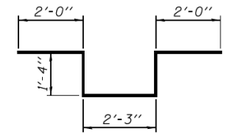
REMOVAL SECTION AT LIGHT POLE



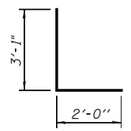
SECTION M-M



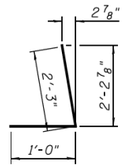
SECTION N-N



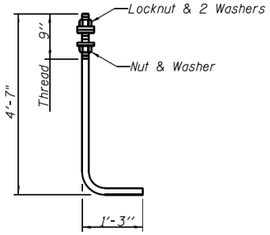
BAR d303(E)



BAR d302(E)

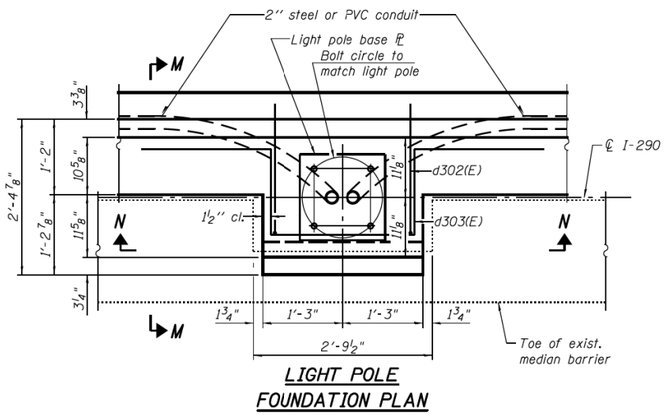


BAR d304(E)

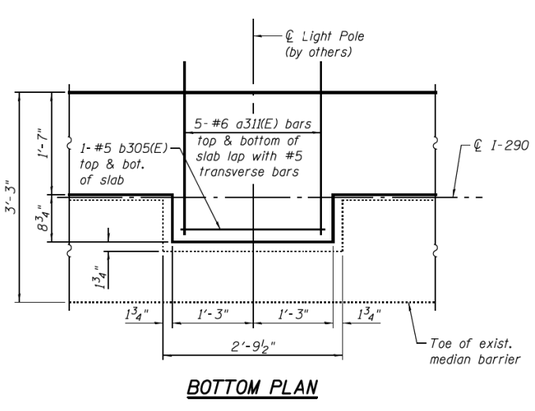


ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) full length hot dipped galvanized. Cost included with cost of Concrete Superstructure



LIGHT POLE
FOUNDATION PLAN



BOTTOM PLAN

Note:
See sheet S2-63. for superstructure details and Bill of Material.

0160461-60X78-S061-DET.dgn

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - PJL	REVISED -
		CHECKED - JZ	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK DETAILS III – UNIT III
STRUCTURE NO. 016-0461
SHEET NO. S2-61 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	338
		CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT		

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad.issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI. MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1700
		CONTRACT NO. 60X93		
		ILLINOIS FED. AID PROJECT		

FILE NAME: pw:\\617479-PWINT.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing122

2:16:30 PM