

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-0391	LAKE	49	1
		ILLINOIS	CONTRACT NO. 60Y33	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

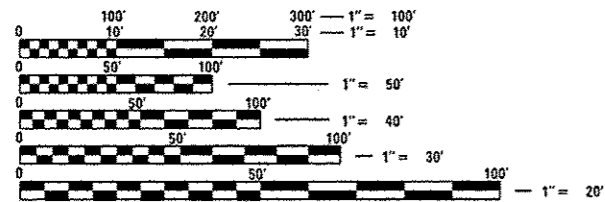
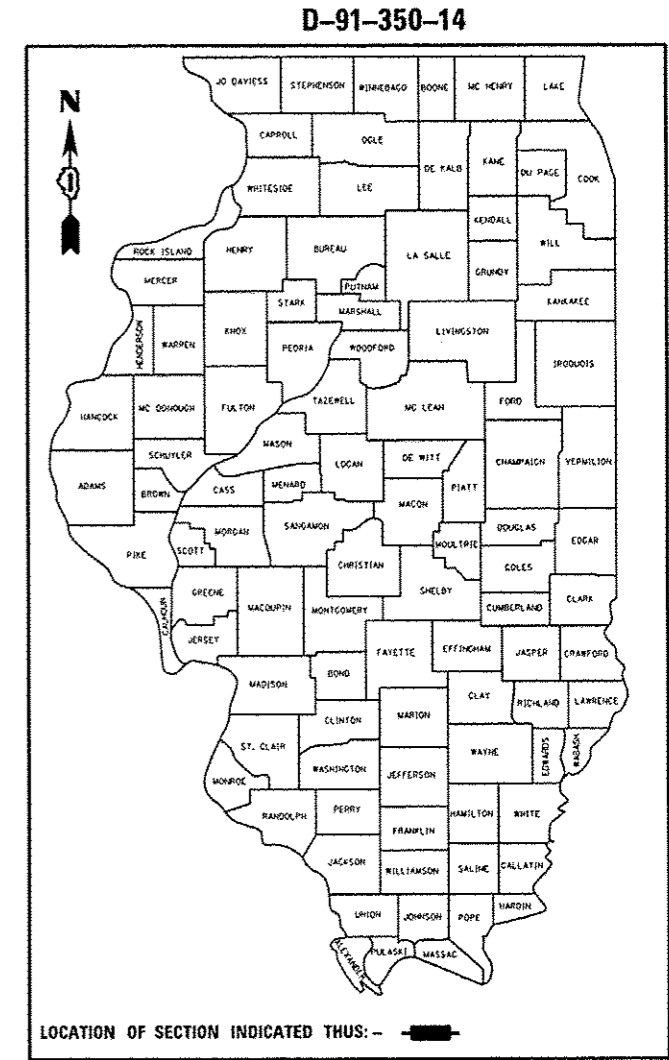
IMPROVEMENTS ARE LOCATED IN THE CITIES OF WAUKEGAN, NORTH CHICAGO, THE VILLAGES OF WADSWORTH, GURNEE, GREEN OAKS, FOX LAKE, LIBERTYVILLE, LONG LAKE, ANTIOCH, CHANNEL LAKE, LAKE VILLA, AND NEWPORT, WARREN, LIBERTYVILLE, WAUKEGAN, SHIELDS, GRANT, ANTIOCH, & LAKE VILLA TOWNSHIPS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
VARIOUS LOCATIONS: N. OF IL 137
SECTION 2014-0391
BRIDGE DECK SEALING
LAKE COUNTY

C-91-350-14

SEE LOCATION MAPS
SHEETS 5-12



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: ISSAM RYYAN (847) 705-4178

CONTRACT NO. 60Y33

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 1, 2014
John Intomaso
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 17, 2014
John D. Baranzoli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 17, 2014
Omer Cemam P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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25	EXISTING BRIDGE PLANS (LOCATION NO. 14, SN 049-0163)
26	EXISTING BRIDGE PLANS (LOCATION NO. 15, SN 049-0161)
27	EXISTING BRIDGE PLANS (LOCATION NO. 16, SN 049-0167)
28	EXISTING BRIDGE PLANS (LOCATION NO. 17, SN 049-0019)
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30	EXISTING BRIDGE PLANS (LOCATION NO. 19, SN 049-0017)
31	EXISTING BRIDGE PLANS (LOCATION NO. 20, SN 049-0170)
32	EXISTING BRIDGE PLANS (LOCATION NO. 21, SN 049-0096)
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38	EXISTING BRIDGE PLANS (LOCATION NO. 27, SN 049-0195)
39	EXISTING BRIDGE PLANS (LOCATION NO. 28, SN 049-0201)
40	EXISTING BRIDGE PLANS (LOCATION NO. 29, SN 049-0209)
41	EXISTING BRIDGE PLANS (LOCATION NO. 30, SN 049-0016)
42	EXISTING BRIDGE PLANS (LOCATION NO. 31, SN 049-0111)
43	EXISTING BRIDGE PLANS (LOCATION NO. 32, SN 049-0220)
44	EXISTING BRIDGE PLANS (LOCATION NO. 33, SN 049-0029)

45	EXISTING BRIDGE PLANS (LOCATION NO. 34, SN 049-9901)
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47	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS INTERSECTIONS AND DRIVEWAYS (TC-10)
48	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
49	ARTERIAL ROAD INFORMATION SIGNING (TC-22)

STATE STANDARDS

STANDARD NO	DESCRIPTION
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES

GENERAL NOTES:

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITIES OF WAUKEGAN AND NORTH CHICAGO, AND THE VILLAGES OF WADSWORTH, GURNEE, GREEN OAKS, FOX LAKE, LIBERTYVILLE, LONG LAKE, ANTIOCH, CHANNEL LAKE, AND LAKE VILLA.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION & ORDERING OF MATERIALS.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE ARTERIAL ROAD INFORMATION SIGN (TC-22) IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.

FILE NAME *	USER NAME * hardnstr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\p\dot\hardnstr\d8391861\02014-ah-tr-plan.dgn	2014-ah-tr-plan.dgn	DRAWN -	REVISED -					330	(1&1)RS-3	LAKE	49	2
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 60Y33				
	PLOT DATE = 9/24/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES					CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	0014									CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
67100100	MOBILIZATION	L SUM	1	1																	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1																	
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1																	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701605	L SUM	1	1																	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1																	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1																	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1																	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1																	
X5870015	BRIDGE DECK CONCRETE SEALER	SO FT	633,462	633,462																	
X7010410	SPEED DISPLAY TRAILER	CAL MO	0.2	0.2																	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1																	
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	1850.4	1850.4																	

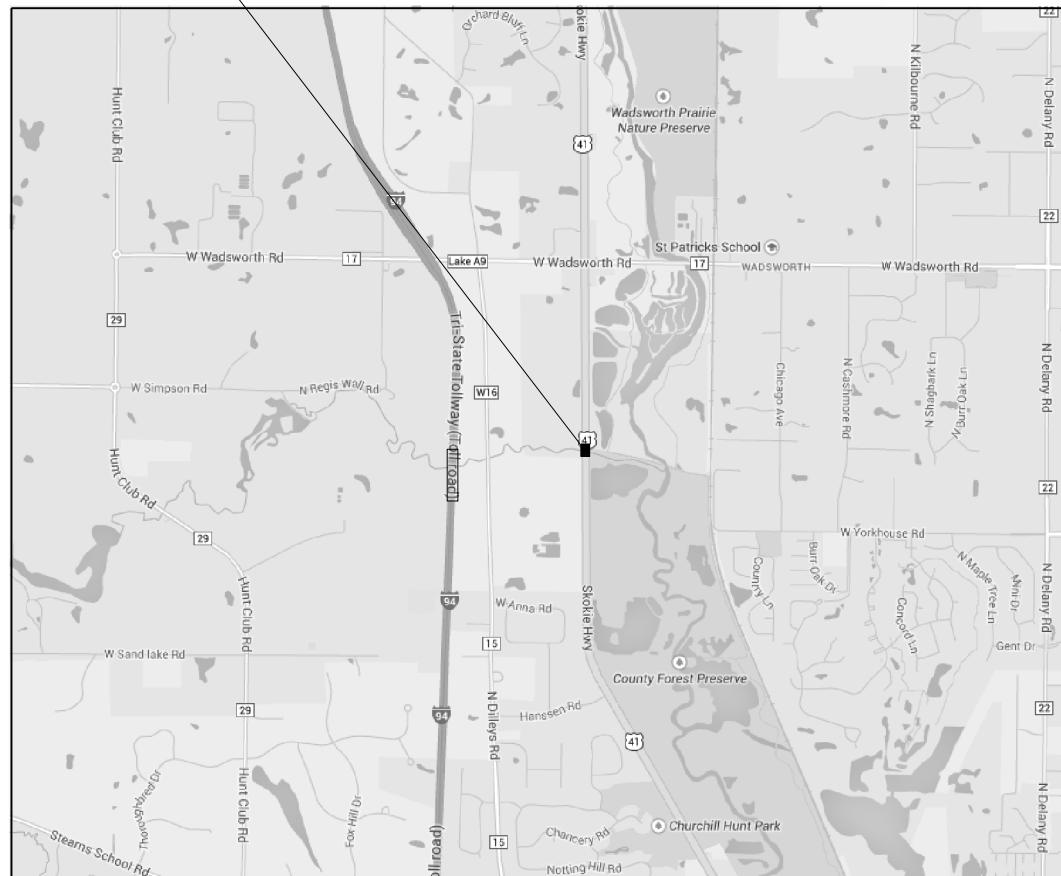
Rev.

	SN 049- 0028	SN 049- 0053	SN 049- 0179	SN 049- 0045	SN 049- 0059	SN 049- 0533	SN 049- 0534	SN 049- 0064	SN 049- 0065	SN 049- 0118	SN 049- 0164	SN 049- 0159	SN 049- 0162	SN 049- 0163	SN 049- 0161	SN 049- 0167	SN 049- 0019	SN 049- 0171
LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
TEMPORARY INFORMATION SIGNING (SQ FT)	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
BRIDGE DECK CONCRETE SEALER (SQ FT)	19253	9157	5112	13794	2158	1222	1030	1628	4649	11592	29147	18451	15643	27217	14714	6670	16260	16257
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501					X													
TRAFFIC CONTROL AND PROTECTION, STANDARD 701502											X				X			X
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	X	X	X	X		X	X	X	X			X		X				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606													X		X	X	X	
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701			X			X	X	X	X	X	X				X			
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801			X			X	X			X	X		X		X	X	X	
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)								X	X									
NIGHTTIME WORKZONE LIGHTING								X	X									

	SN 049- 0017	SN 049- 0170	SN 049- 0096	SN 049- 0063	SN 049- 0175	SN 049- 0178	SN 049- 0198	SN 049- 0055	SN 049- 0195	SN 049- 0201	SN 049- 0209	SN 049- 0016	SN 049- 0111	SN 049- 0220	SN 049- 0029	SN 049- 9901	SN 049- 0222	SN 049- 0221
LOCATION	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
TEMPORARY INFORMATION SIGNING (SQ FT)	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
BRIDGE DECK CONCRETE SEALER (SQ FT)	10718	7082	60859	12050	23387	3264	11893	78605	2896	7559	27747	71861	31512	11277	14007	10775	12023	21993
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	X				X	X	X	X	X									
TRAFFIC CONTROL AND PROTECTION, STANDARD 701502		X								X								
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601			X								X	X	X	X	X	X	X	X
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606				X														
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701		X										X						
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801										X						X		
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)														X			X	
NIGHTTIME WORKZONE LIGHTING														X			X	

LOCATION 1: SN 049-0028
US 41 OVER MILL CREEK
VILLAGE OF WADSWORTH

T 46 N



R 11 E

NEWPORT TOWNSHIP
LAKE COUNTY

LOCATION 2: SN 049-0053
IL 120 NW RAMP OVER STREAM
VILLAGE OF GURNEE



R 11 E



LOCATION 3: SN 049-0179
IL 21 OVER IL 120 & STREAM
VILLAGE OF GURNEE

T 45 N

LOCATION 4: SN 049-0045
IL 120 EB OVER STREAM
VILLAGE OF GURNEE

WARREN TOWNSHIP
LAKE COUNTY

TRAFFIC DATA

IL 120 EB
2013 ADT = 18750
POSTED SPEED LIMIT = 55 MPH

US 41
2013 ADT = 31700
POSTED SPEED LIMIT = 55 MPH

IL 21
2013 ADT = 16500
POSTED SPEED LIMIT = 45 MPH

IL 120 NW RAMP
2011 ADT = 1750
POSTED SPEED LIMIT = 25 MPH

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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/11/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
LOCATIONS 1-4

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y33	

R 11 E



**NEWPORT TOWNSHIP
LAKE COUNTY**

**LOCATION 6: SN 049-0533
RUSSELL RD OVER I-94 SB
VILLAGE OF WADSWORTH**

**LOCATION 7: SN 049-0534
RUSSELL RD OVER I-94 NB
VILLAGE OF WADSWORTH**

**LOCATION 5: SN 049-0059
IL 173 OVER DES PLAINES RIVER
VILLAGE OF WADSWORTH**

R 11 E



**LIBERTYVILLE TOWNSHIP
LAKE COUNTY**

**LOCATION 8: SN 049-0064
IL 137 OVER I-94
VILLAGE OF GREEN OAKS**

**LOCATION 9: SN 049-0065
IL 137 OVER RR-UP & OLD SKOKIE
VILLAGE OF GREEN OAKS**

TRAFFIC DATA

IL 173
2013 ADT = 11800
POSTED SPEED LIMIT = 45 MPH

IL 137
2013 ADT = 13650
POSTED SPEED LIMIT = 45 MPH

RUSSELL RD
2011 ADT = 3900
POSTED SPEED LIMIT = 45 MPH

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
LOCATIONS 5-9**

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -
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SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							VAR.	2014-039I	LAKE	49	6
CONTRACT NO. 60Y33											
ILLINOIS FED. AID PROJECT											

**LOCATION 10: SN 049-0118
MATHON DR (GRAND AVE) OVER
IL 137 (AMSTUTZ EXPY)
CITY OF WAUKEGAN**

**LOCATION 11: SN 049-0164
WASHINGTON ST OVER
IL 137 (AMSTUTZ EXPY)
CITY OF WAUKEGAN**

**LOCATION 14: SN 049-0163
IL 137 (LK FRT FRWY) OVER 24TH ST.
CITY OF NORTH CHICAGO**

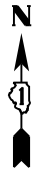
**LOCATION 13: SN 049-0162
SHERIDAN RD OVER 24TH ST
CITY OF NORTH CHICAGO**

R 12 E

T 45 N



**WAUKEGAN TOWNSHIP
LAKE COUNTY**



R 12 E

**LOCATION 12: SN 049-0159
IL 137 (LK FRT FRWY) OVER WAUKEGAN
RIVER
CITY OF WAUKEGAN**

WASHINGTON ST
1997 ADT = 1000
POSTED SPEED LIMIT = 30 MPH

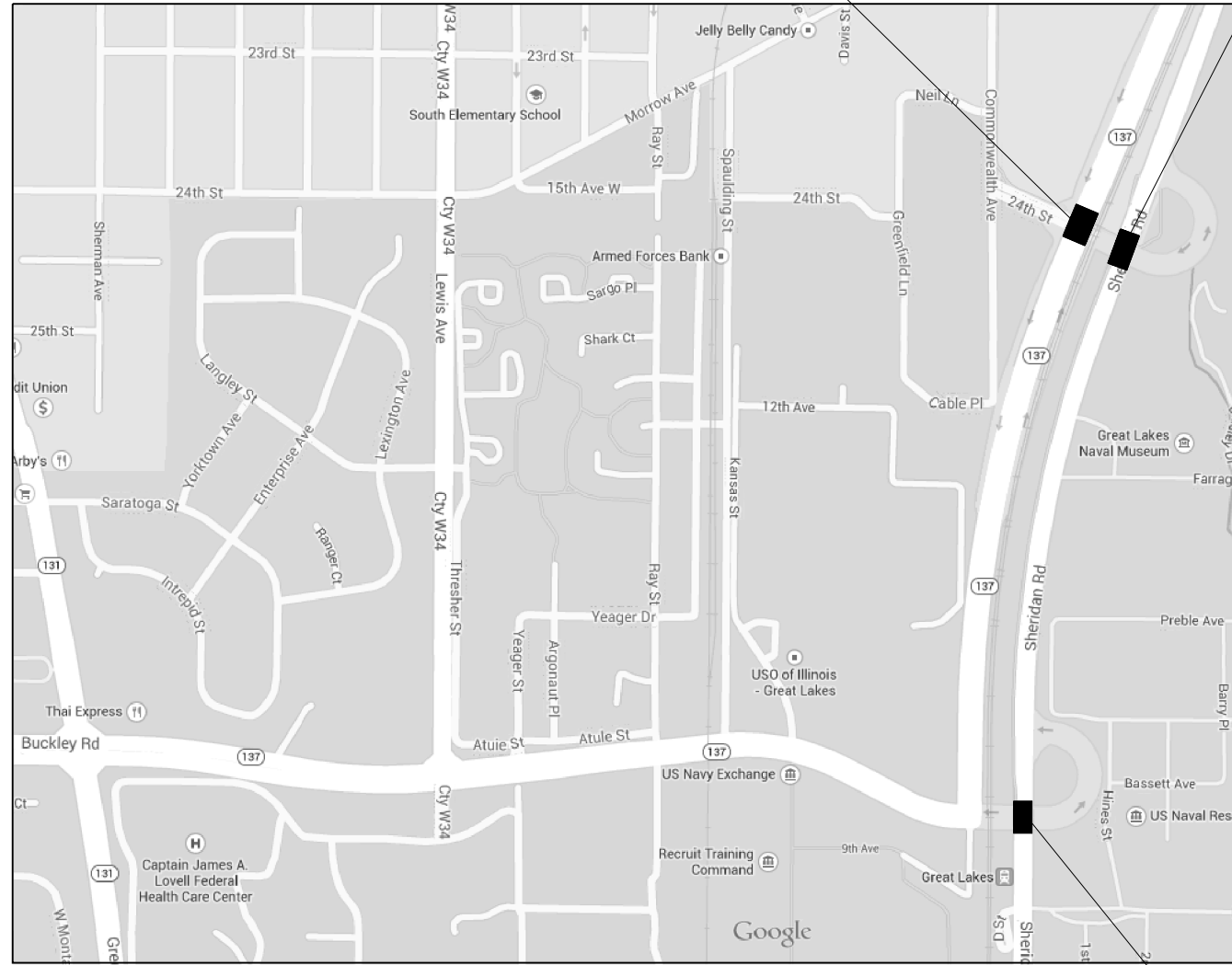
IL 137 (LK FRT FRWY, AT SN 049-0159)
2013 ADT = 11600
POSTED SPEED LIMIT = 55 MPH

MATHON DR (GRAND AVE)
2011 ADT = 10400
POSTED SPEED LIMIT = 30 MPH

SHERIDAN RD
2011 ADT = 4250
POSTED SPEED LIMIT = 40 MPH

IL 137 (LK FRT FRWY, AT SN 049-0163)
2013 ADT = 14500
POSTED SPEED LIMIT = 50 MPH

TRAFFIC DATA



**SHIELDS TOWNSHIP
LAKE COUNTY**



**LOCATION 15: SN 049-0161
SHERIDAN RD OVER BUCKLEY RD
CITY OF NORTH CHICAGO**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
LOCATIONS 10-15**

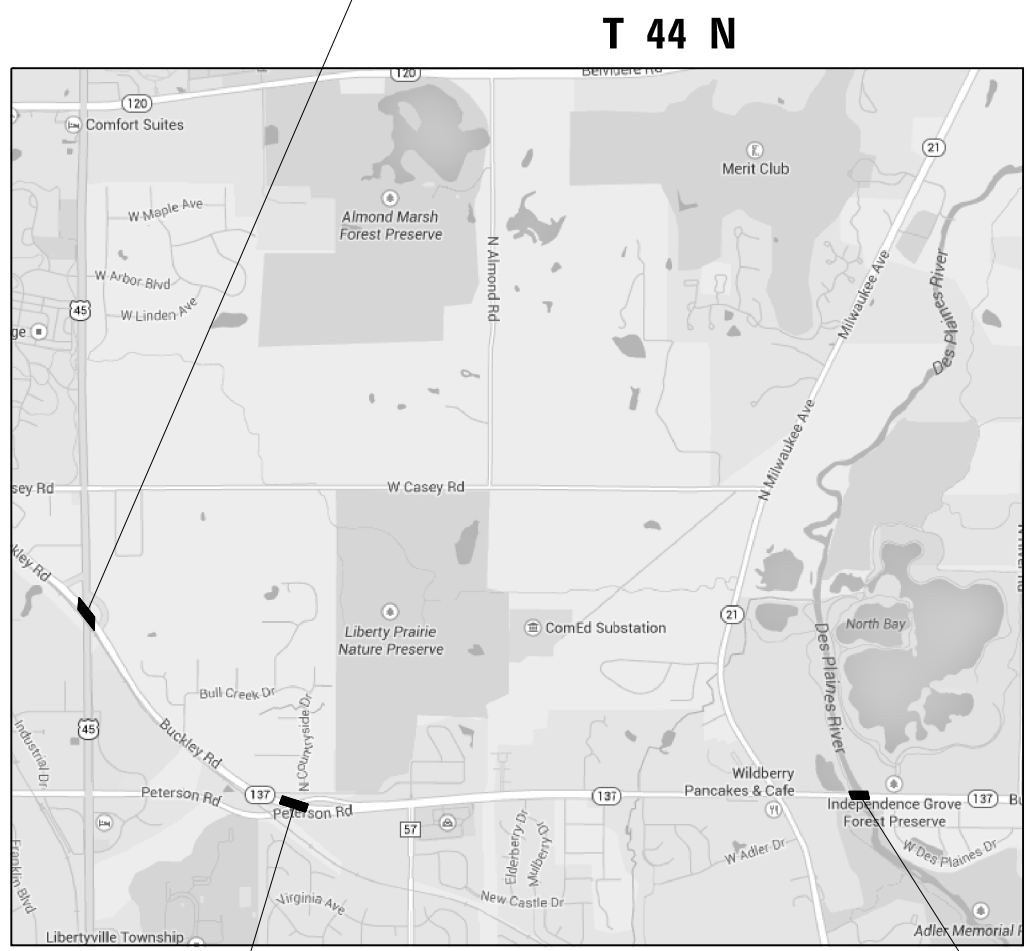
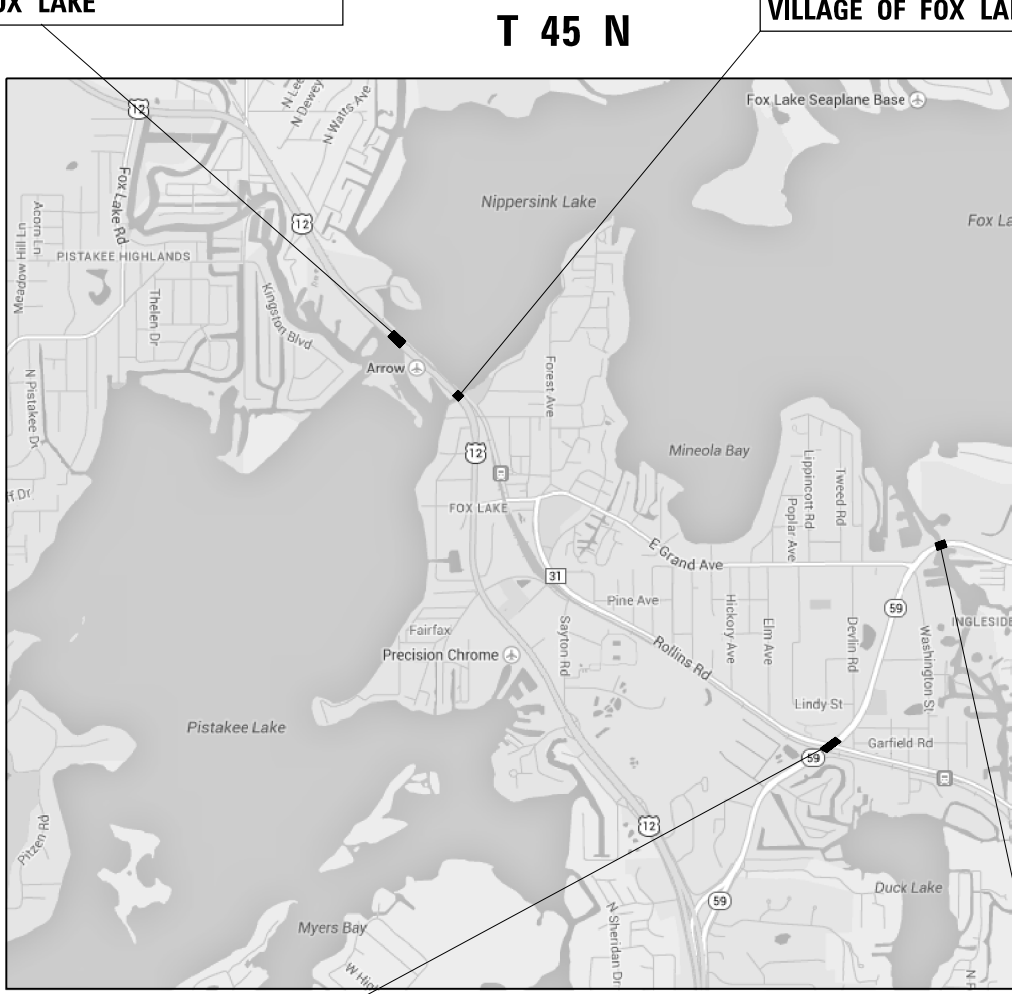
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	7
CONTRACT NO. 60Y33				
ILLINOIS FED. AID PROJECT				

**LOCATION 16: SN 049-0167
US 12 OVER NIPPERSINK LAKE CHANNEL
VILLAGE OF FOX LAKE**

**LOCATION 17: SN 049-0019
US 12 OVER PISTAKEE LAKE CHANNEL
VILLAGE OF FOX LAKE**

**LOCATION 20: SN 049-0170
IL 137 OVER US 45
VILLAGE OF LIBERTYVILLE**



**LOCATION 18: SN 049-0171
IL 59 OVER RR - METRA & ROLLINS
VILLAGE OF FOX LAKE**

**GRANT TOWNSHIP
LAKE COUNTY**

**LOCATION 19: SN 049-0017
IL 59 OVER SQUAW CREEK
VILLAGE OF FOX LAKE**

**LOCATION 21: SN 049-0096
IL 137 OVER IL 137 WB OFF RAMP
VILLAGE OF LIBERTYVILLE**

**LIBERTYVILLE TOWNSHIP
LAKE COUNTY**

**LOCATION 22: SN 049-0063
IL 137 OVER DES PLAINES RIVER
VILLAGE OF LIBERTYVILLE**

TRAFFIC DATA

US 12
2013 ADT = 26800
POSTED SPEED LIMIT = 40 MPH

IL 137 (AT SN 049-0170)
2013 ADT = 13100
POSTED SPEED LIMIT = 55 MPH

IL 137 (AT SN 049-0096)
2013 ADT = 14600
POSTED SPEED LIMIT = 55 MPH

IL 59 (AT SN 016-0017)
2013 ADT = 12000
POSTED SPEED LIMIT = 40 MPH

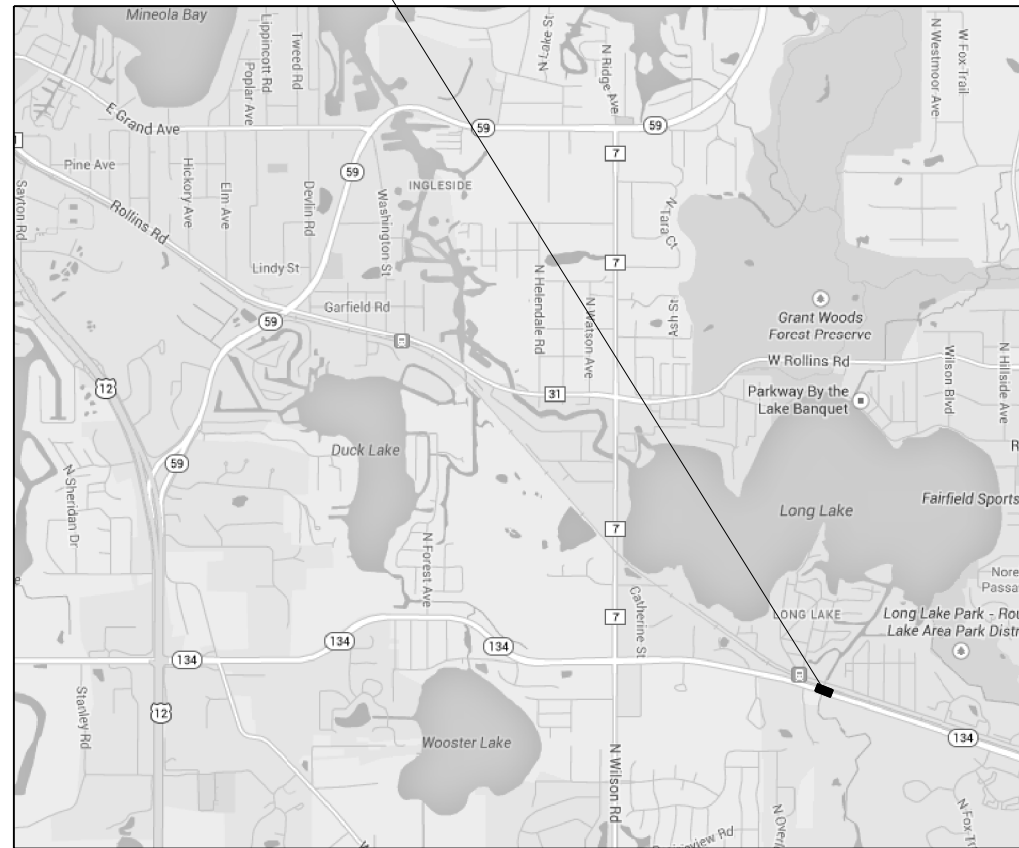
IL 59 (AT SN 016-0171)
2013 ADT = 8850
POSTED SPEED LIMIT = 45 MPH

IL 137 (AT SN 049-0063)
2011 ADT = 25500
POSTED SPEED LIMIT = 45 MPH

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION MAP LOCATIONS 16-22				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	8/11/2014	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR.	2014-039I	LAKE	49	8
		CHECKED -	REVISED -						CONTRACT NO. 60Y33							
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT							

**LOCATION 23: SN 049-0175
IL 134 OVER SQUAW CREEK
VILLAGE OF LONG LAKE**

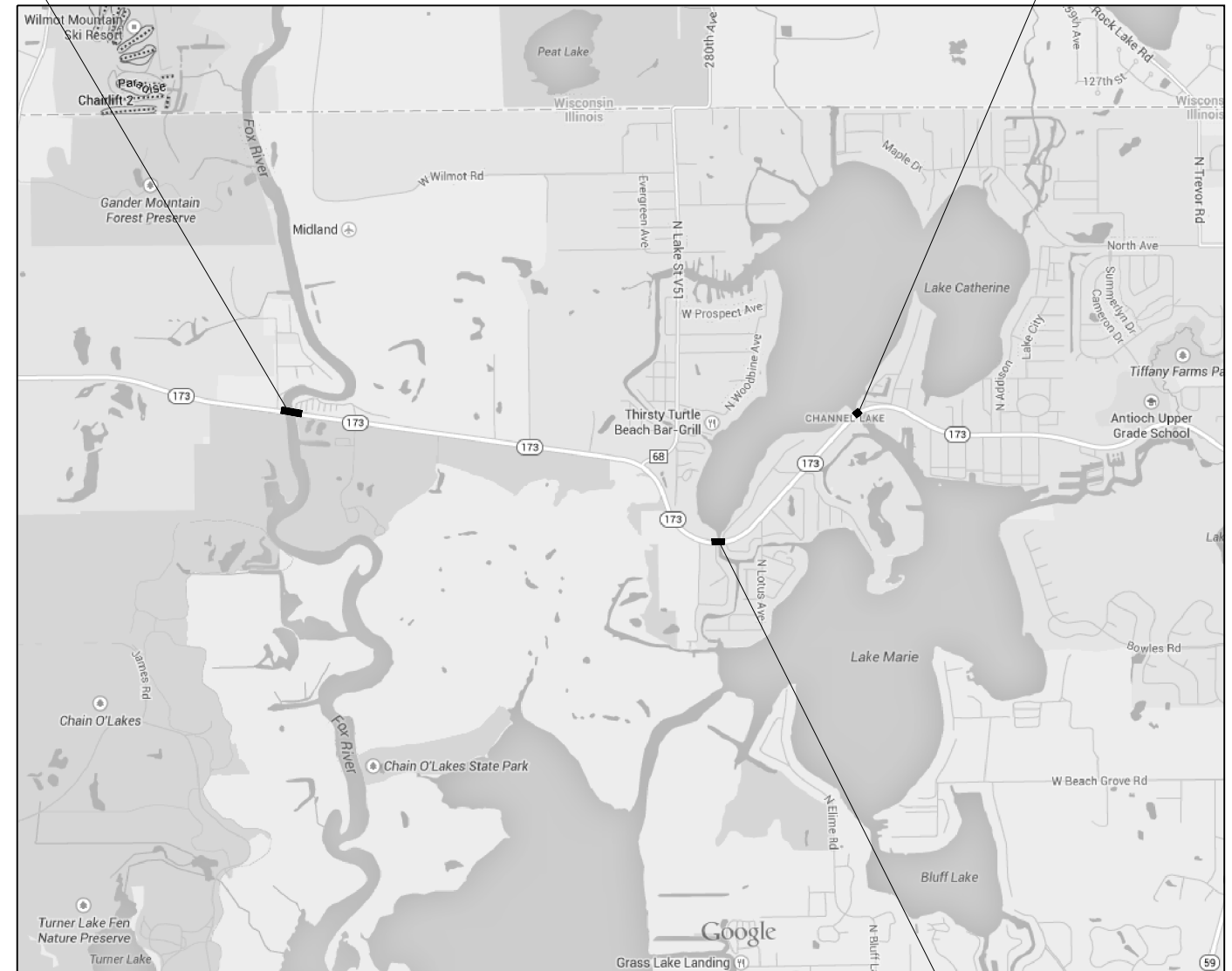
T 45 N



**GRANT TOWNSHIP
LAKE COUNTY**

**LOCATION 24: SN 049-0178
IL 173 OVER FOX RIVER
VILLAGE OF ANTIOCH**

T 46 N



**ANTIOCH TOWNSHIP
LAKE COUNTY**

**LOCATION 25: SN 049-0198
IL 173 OVER BOAT CHANNEL
VILLAGE OF CHANNEL LAKE**

**LOCATION 26: SN 049-0055
IL 173 OVER BOAT CHANNEL
VILLAGE OF CHANNEL LAKE**

TRAFFIC DATA

IL 134
2013 ADT = 8650
POSTED SPEED LIMIT = 40 MPH

IL 173
2013 ADT = 9850
POSTED SPEED LIMIT = 40 MPH

IL 173 (AT SN 049-0178)
2013 ADT = 9100
POSTED SPEED LIMIT = 55 MPH

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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/11/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
LOCATIONS 23-26**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	9
			CONTRACT NO. 60Y33	
ILLINOIS FED. AID PROJECT				

T 46 N

R 10 E



**ANTIOCH TOWNSHIP
LAKE COUNTY**

**LOCATION 27: SN 049-0195
IL 173 OVER MILL CREEK
VILLAGE OF ANTIOCH**

T 46 N

R 10 E



**LAKE VILLA TOWNSHIP
LAKE COUNTY**

**LOCATION 28: SN 049-0201
IL 83 OVER RR CN
VILLAGE OF LAKE VILLA**



TRAFFIC DATA

IL 173
2013 ADT = 15000
POSTED SPEED LIMIT = 55 MPH

IL 83 (ANTIOCK RD)
2013 ADT = 13000
POSTED SPEED LIMIT = 45 MPH

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -
ci:\pw\work\p\pidot\hardnettbr\d0391061\0185014-sh-t-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/11/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
LOCATIONS 27-28**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	10
			CONTRACT NO. 60Y33	
ILLINOIS FED. AID PROJECT				

**LOCATION 29: SN 049-0209
US 41 OVER IL 132 (GRAND AVE)
VILLAGE OF GURNEE**

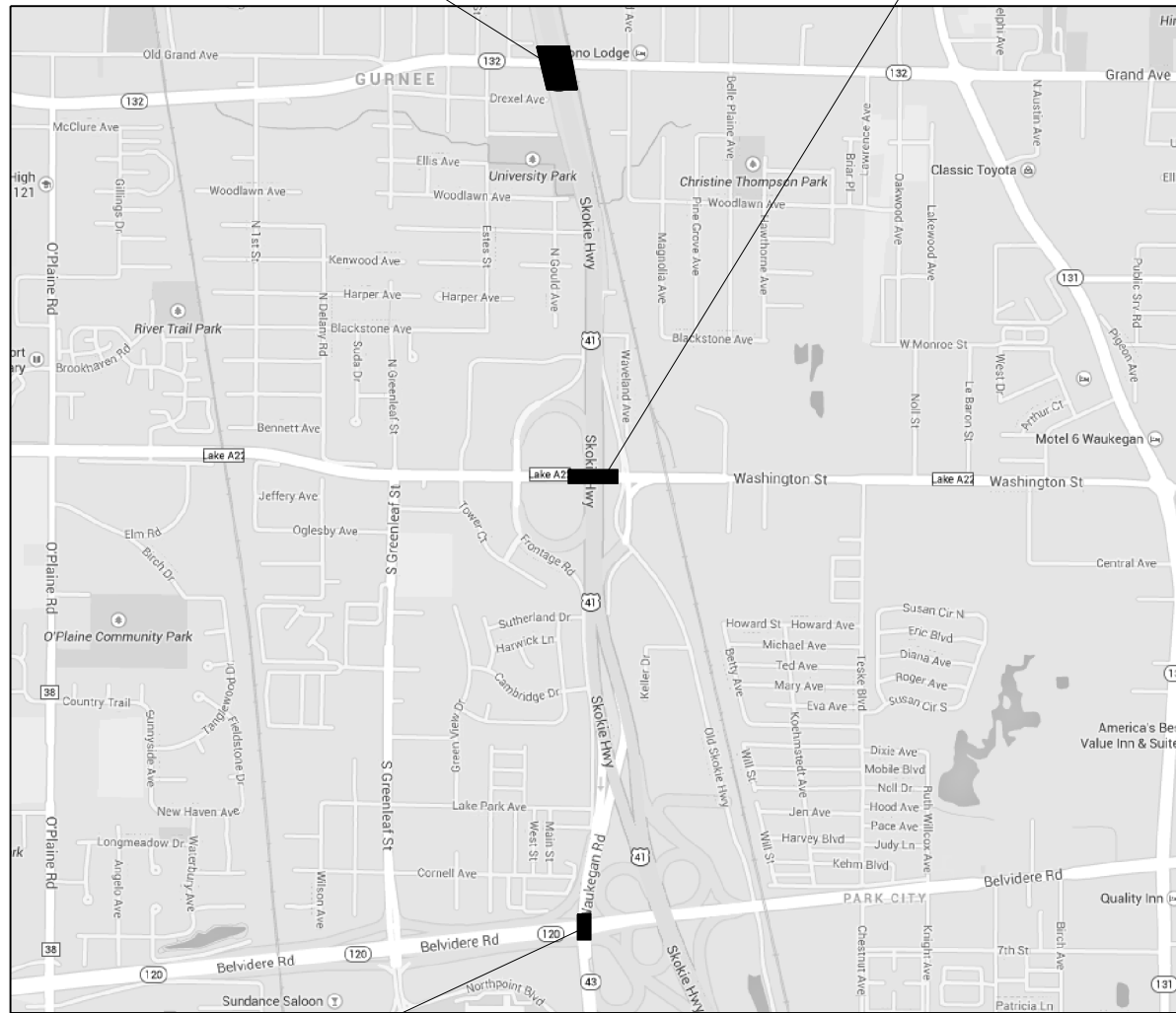
**LOCATION 30: SN 049-0016
WASHINGTON ST OVER US 41
VILLAGE OF GURNEE**

**LOCATION 32: SN 049-0220
IL 132 (GRAND AVE) OVER I-94
VILLAGE OF GURNEE**

**LOCATION 33: SN 049-0029
US 41 OVER DES PLAINES RIVER
VILLAGE OF GURNEE**

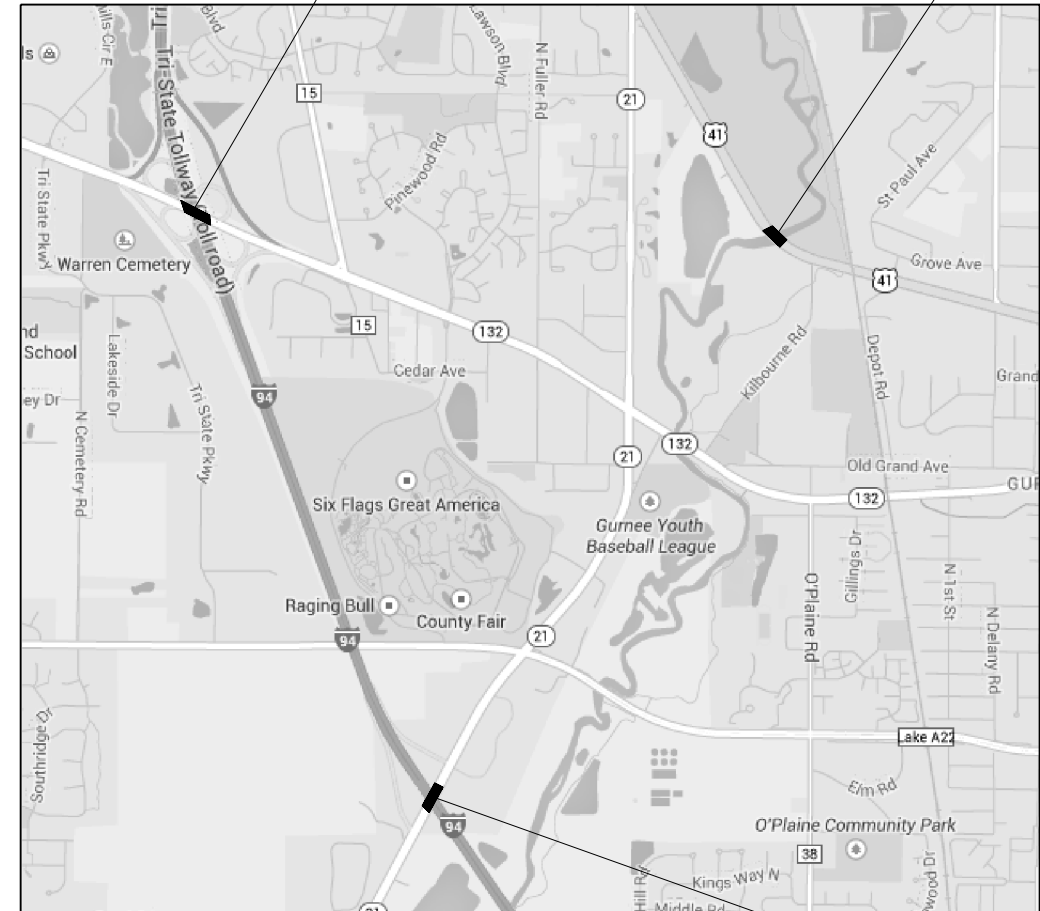
R 11 E

T 45 N



R 11 E

T 45 N



**WARREN TOWNSHIP
LAKE COUNTY**

**WARREN TOWNSHIP
LAKE COUNTY**

**LOCATION 31: SN 049-0111
IL 43 (TELEGRAPH) OVER IL 120
CITY OF WAUKEGAN**

**LOCATION 34: SN 049-9901
IL 21 OVER I-94
VILLAGE OF GURNEE**

TRAFFIC DATA

US 41 (AT SN 049-0209)
2013 ADT = 37900
POSTED SPEED LIMIT = 45 MPH

IL 132 (GRAND AVE)
2013 ADT = 41300
POSTED SPEED LIMIT = 45 MPH

WASHINGTON ST
2011 ADT = 27000
POSTED SPEED LIMIT = 45 MPH

US 41 (AT SN 049-0029)
2013 ADT = 25400
POSTED SPEED LIMIT = 45 MPH

IL 43 (TELEGRAPH)
2013 ADT = 25500
POSTED SPEED LIMIT = 45 MPH

IL 21
2013 ADT = 14000
POSTED SPEED LIMIT = 45 MPH

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION MAP LOCATIONS 29-34				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR.	2014-039I	LAKE	49	11
	PLOT DATE = 8/11/2014	CHECKED -	REVISED -		CONTRACT NO. 60Y33											
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT											

T 45 N

LOCATION 35: SN 049-0222
IL 120 WB OVER I-94
VILLAGE OF GURNEE

LOCATION 36: SN 049-0221
IL 120 EB OVER I-94
VILLAGE OF GURNEE

R 11 E



**WARREN TOWNSHIP
LAKE COUNTY**

TRAFFIC DATA

IL 120
2013 ADT = 17850
POSTED SPEED LIMIT = 55 MPH

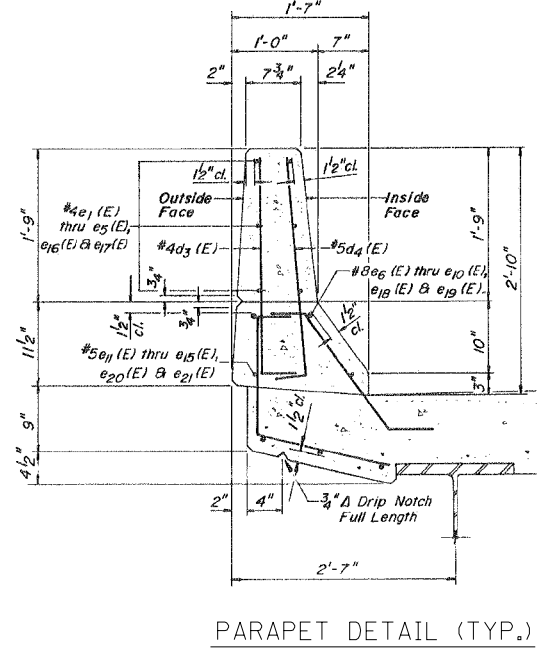
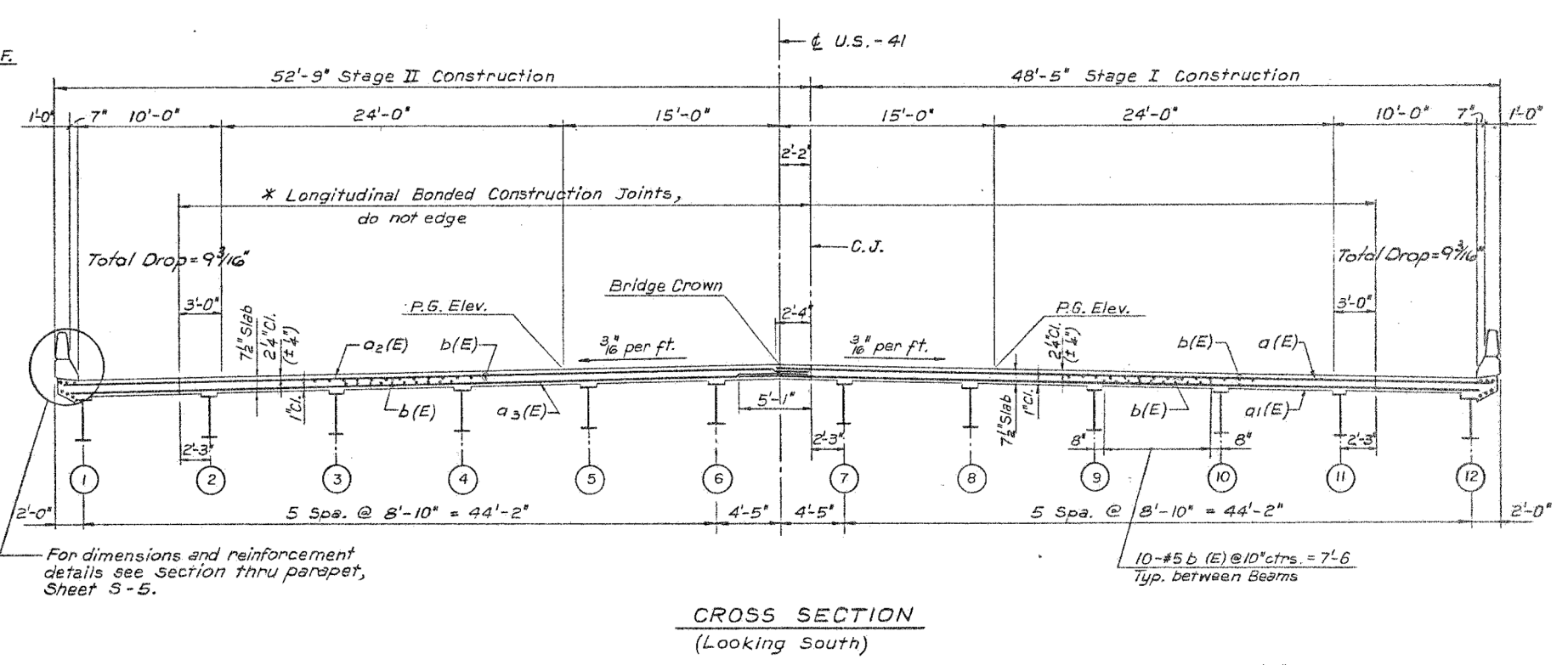
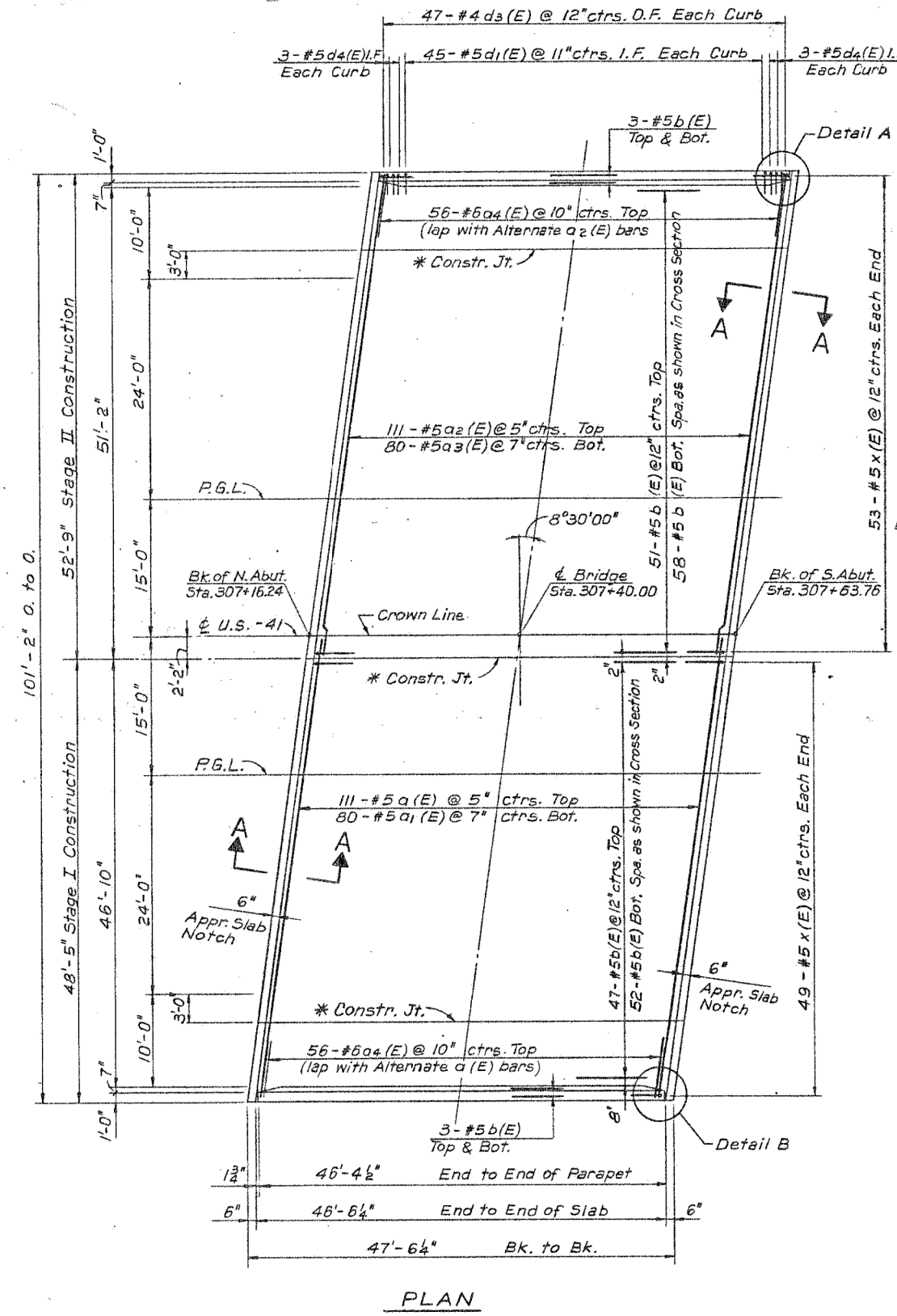
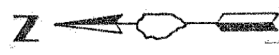
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/11/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
LOCATIONS 35-36**

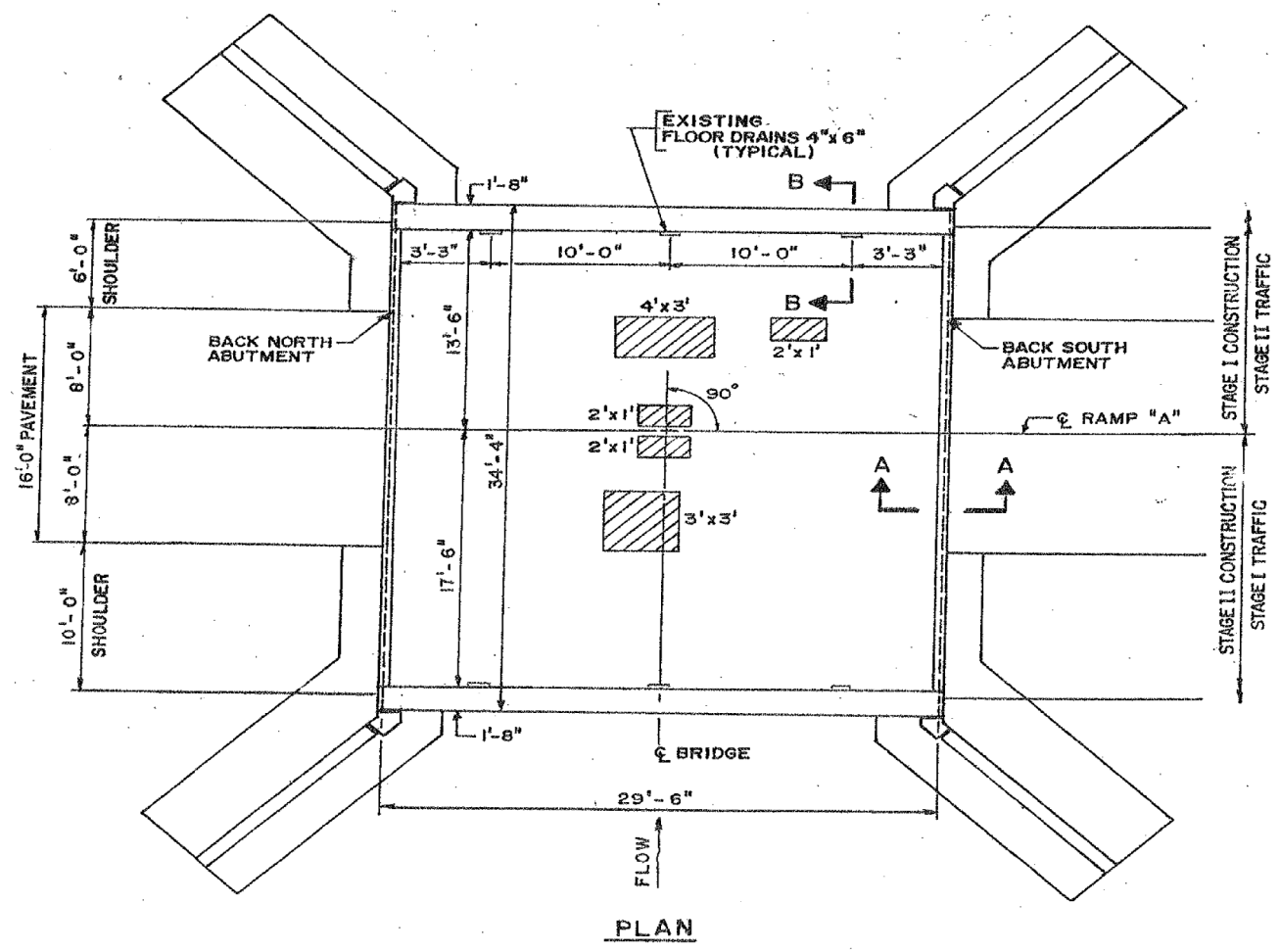
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	12
CONTRACT NO. 60Y33			ILLINOIS FED. AID PROJECT	

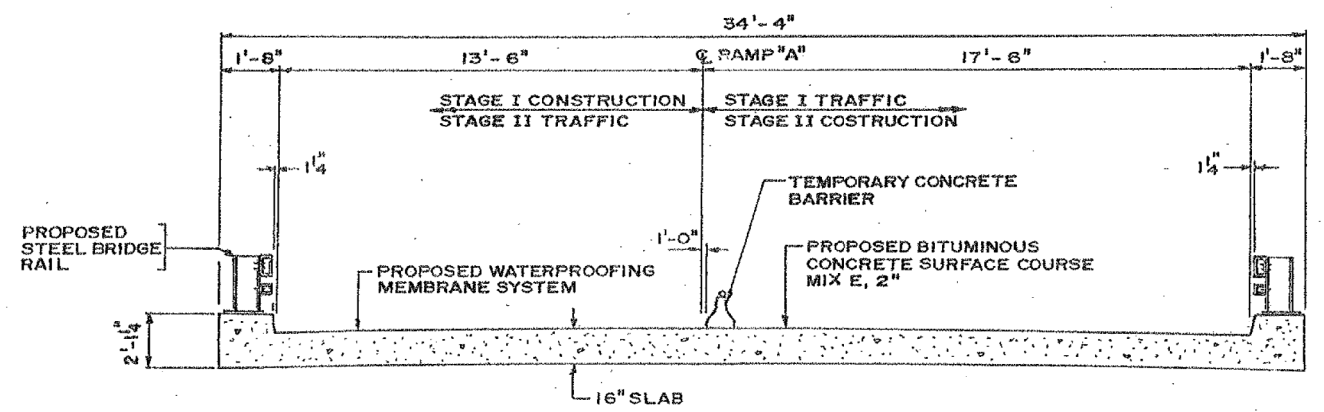


FOR INFORMATION ONLY

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 1 (SN 049-0028)				F.A.P. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR.	2014-039I	LAKE	49	13
	PLOT DATE = 8/11/2014	CHECKED -	REVISED -										CONTRACT NO. 60Y33			
		DATE -	REVISED -										ILLINOIS FED. AID PROJECT			



PLAN



CROSS SECTION
(LOOKING SOUTH)

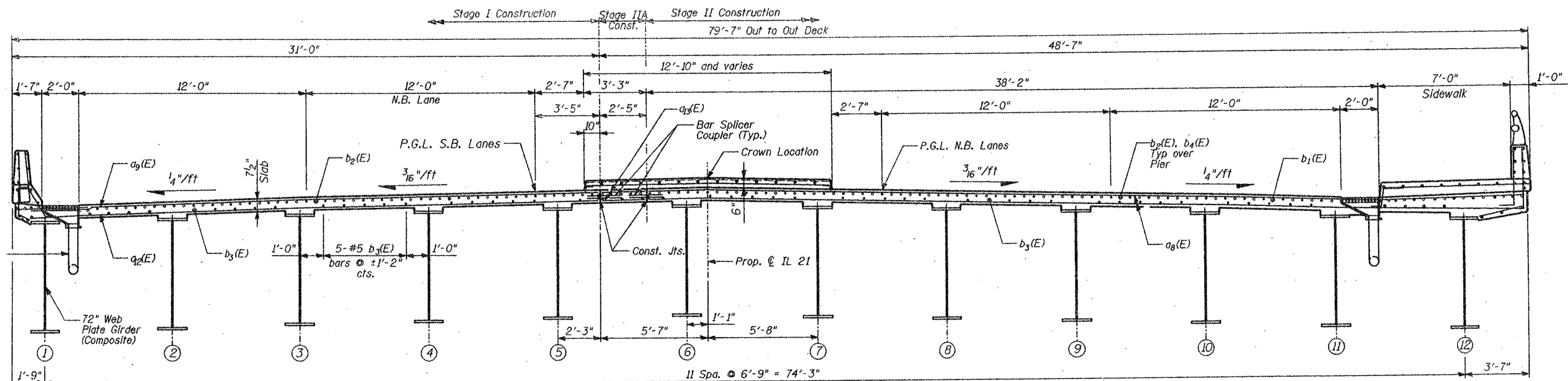
FOR INFORMATION ONLY

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -
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	PLOT DATE = 8/11/2014	DATE -	REVISED -

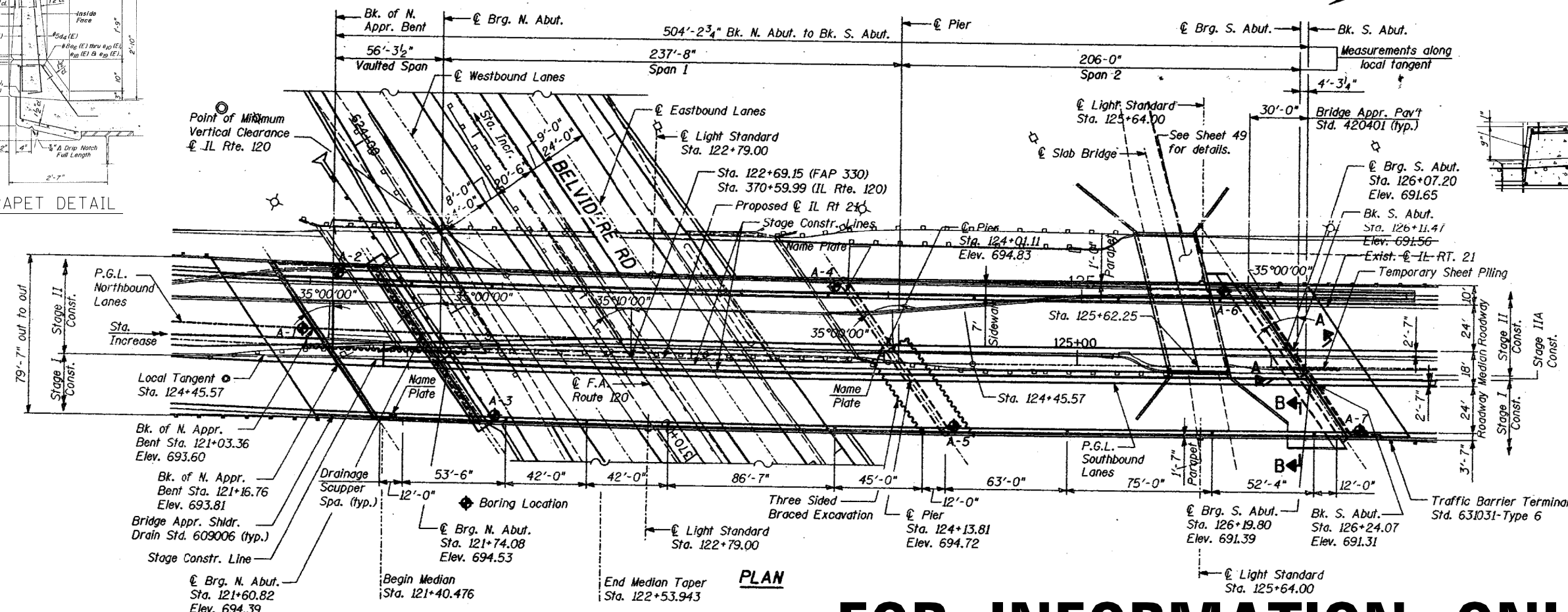
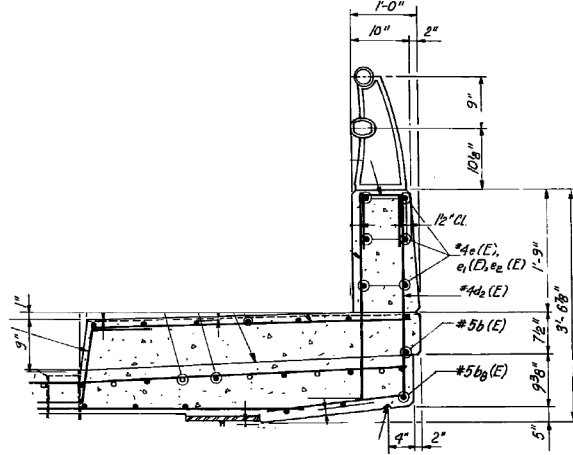
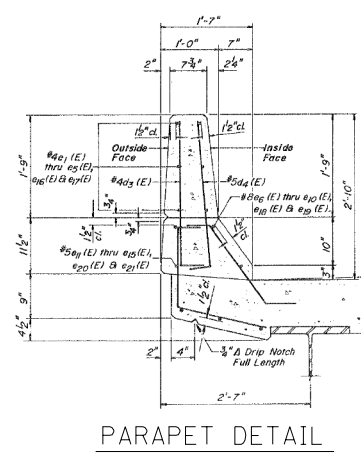
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS			
LOCATION 2 (SN 049-0053)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	14
CONTRACT NO. 60Y33				
ILLINOIS FED. AID PROJECT				



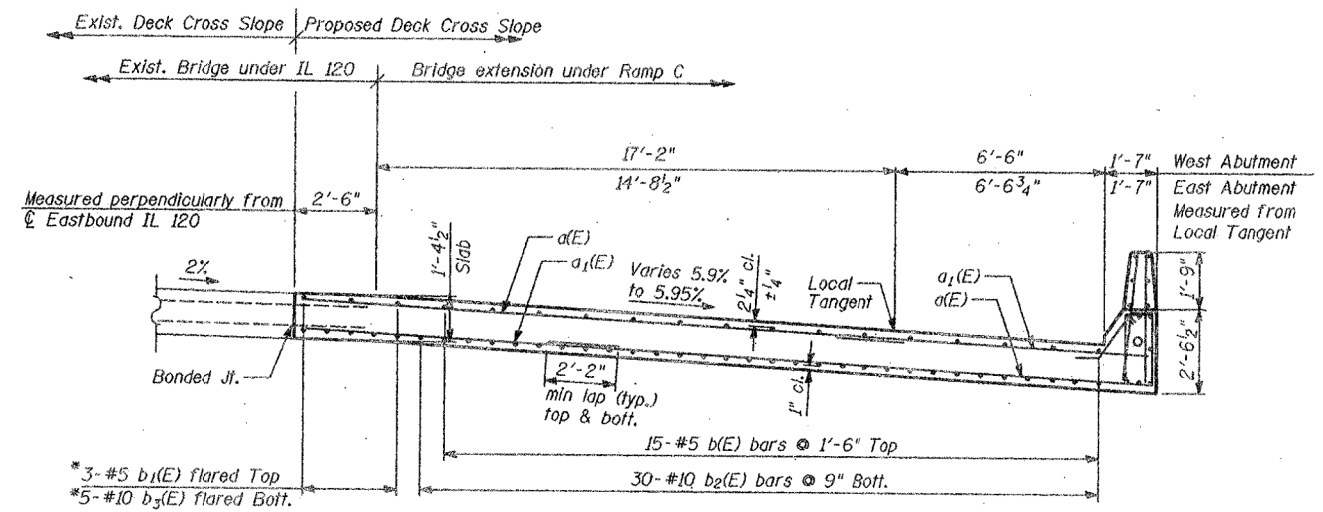
CROSS SECTION THRU SUPERSTRUCTURE
 (Section Thru Bridge Deck Looking North)
 (All dimensions are radial)



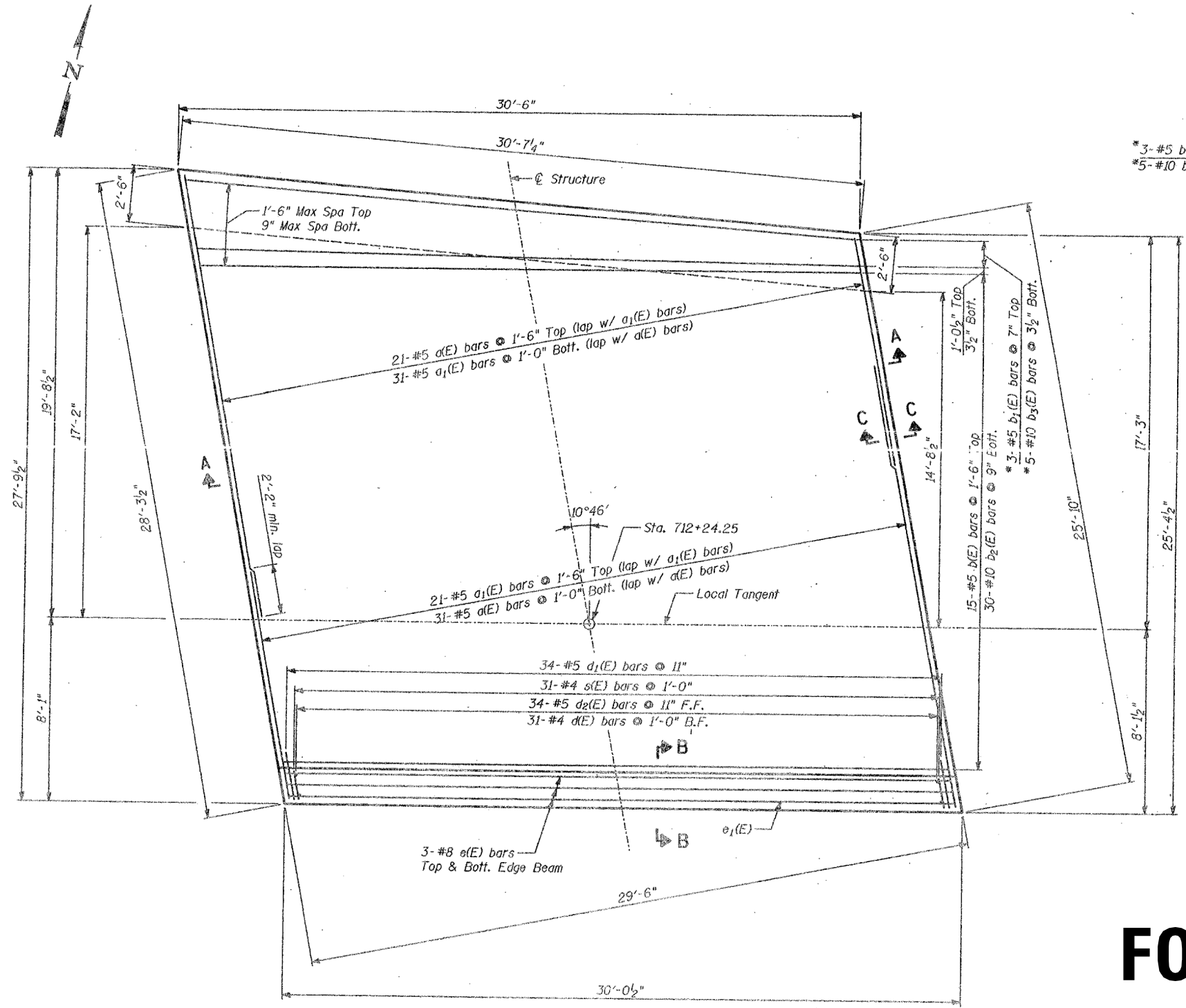
PLAN

FOR INFORMATION ONLY

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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60Y33								
	PLOT DATE = 8/11/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



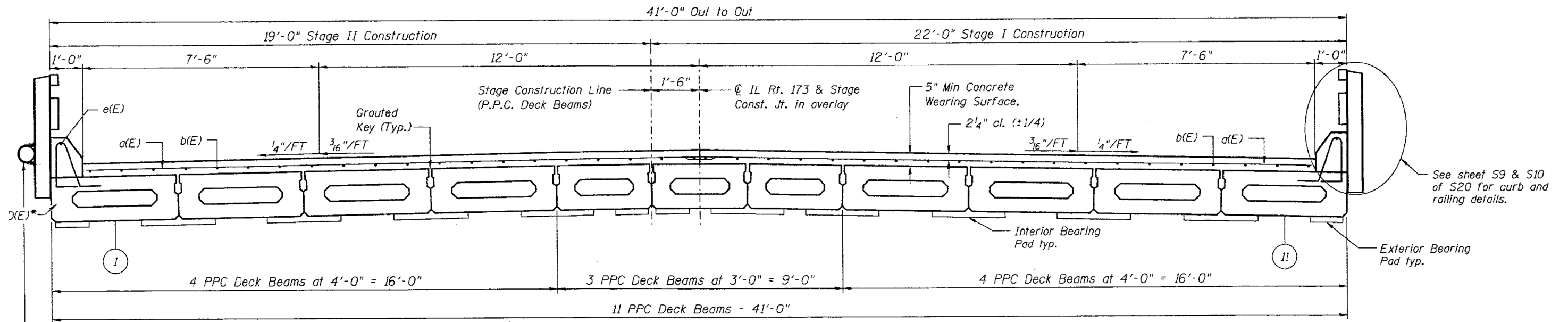
CROSS SECTION
(Looking East)



PLAN

FOR INFORMATION ONLY

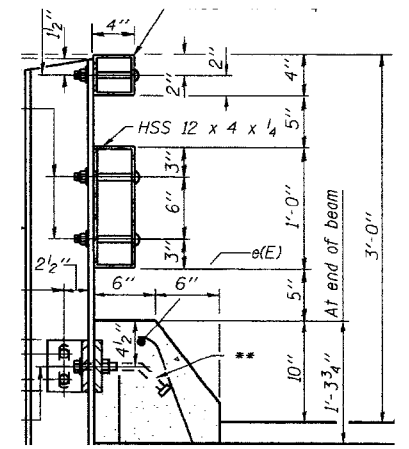
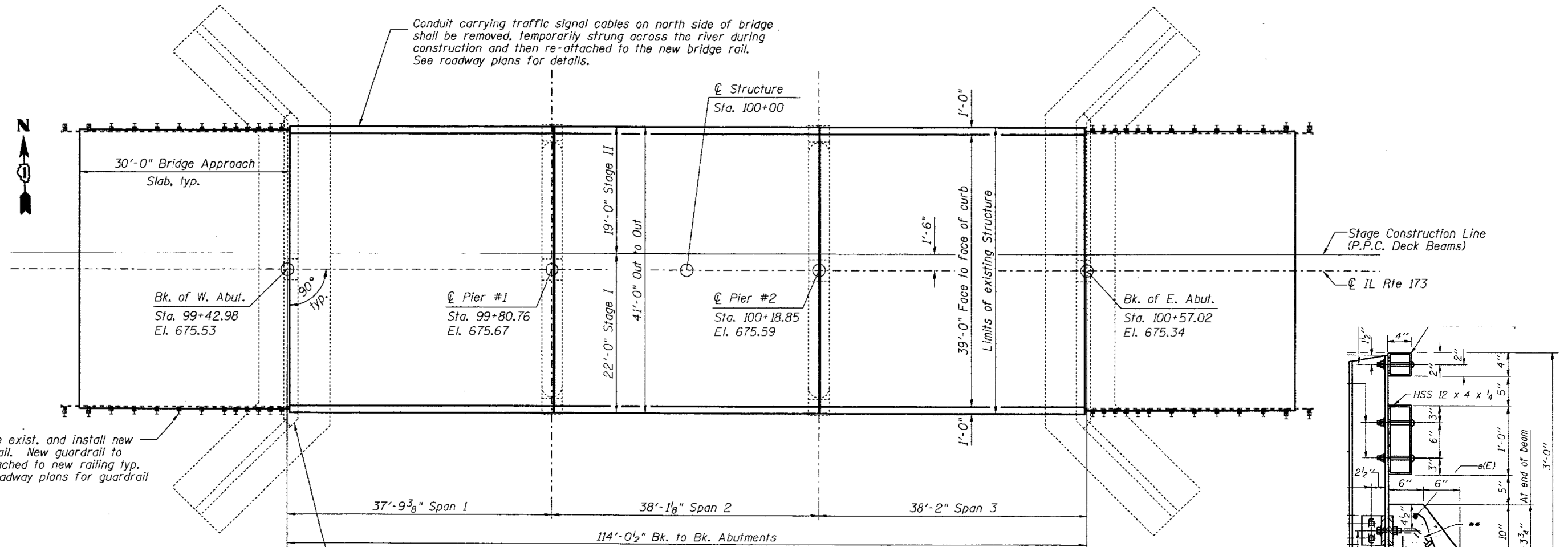
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR.	2014-039I	LAKE
Default	PLOT DATE = 8/11/2014	DATE -	REVISED -		CONTRACT NO. 60Y33							ILLINOIS FED. AID PROJECT		



Remove and Re-attach existing conduit to new bridge rail. All new hardware shall be used to re-install the exist. conduit. See roadway plans.

CROSS SECTION

FOR INFORMATION ONLY

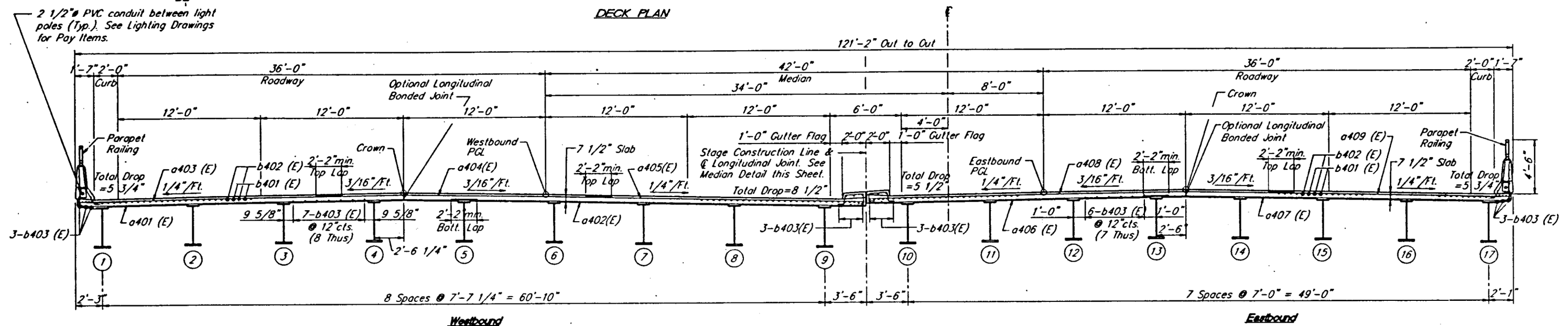
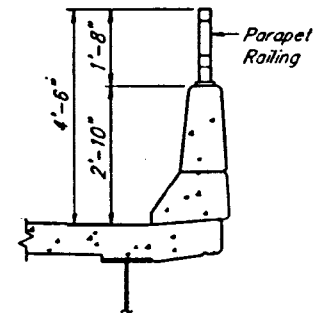
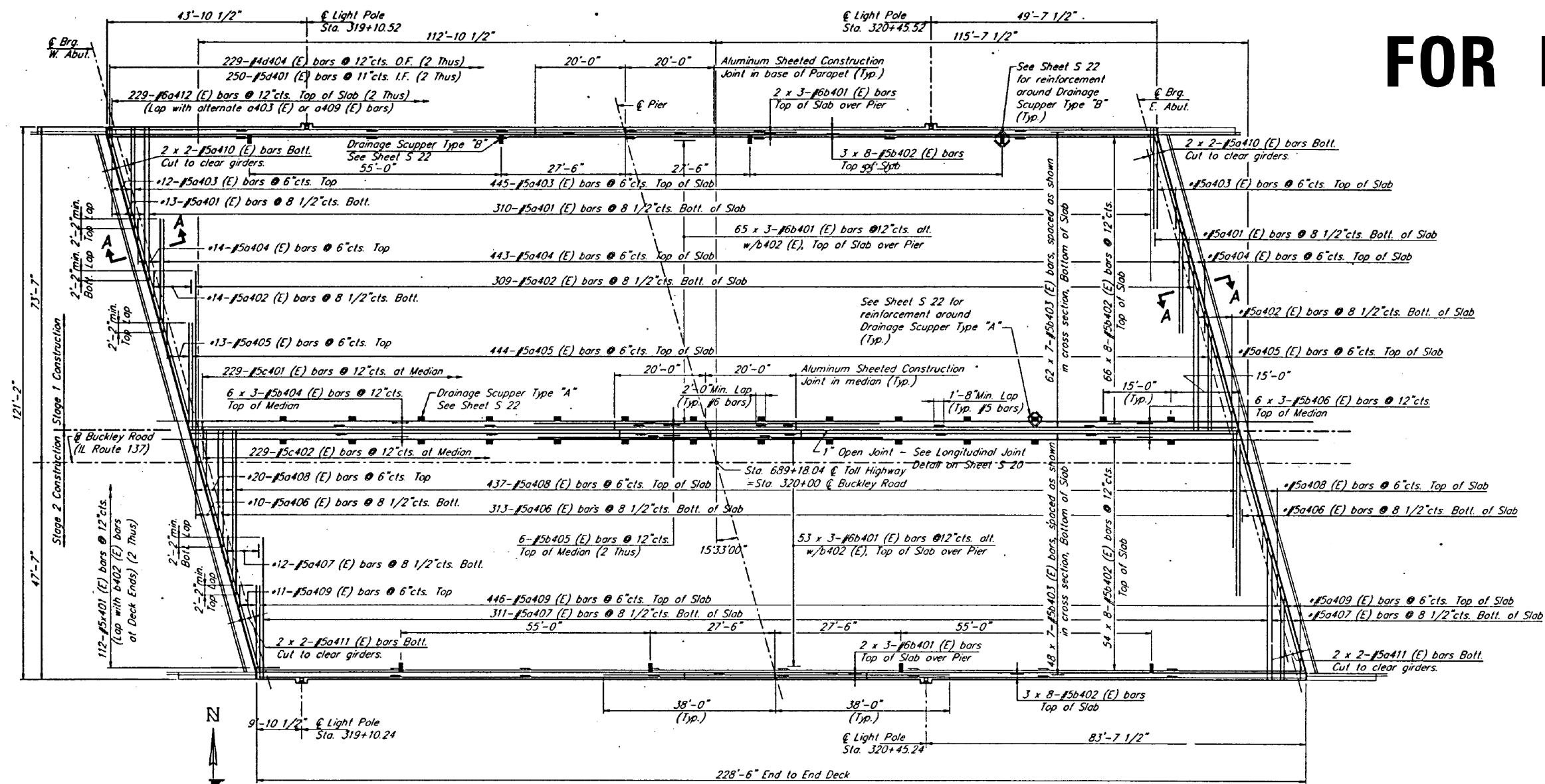


RAILING DETAIL

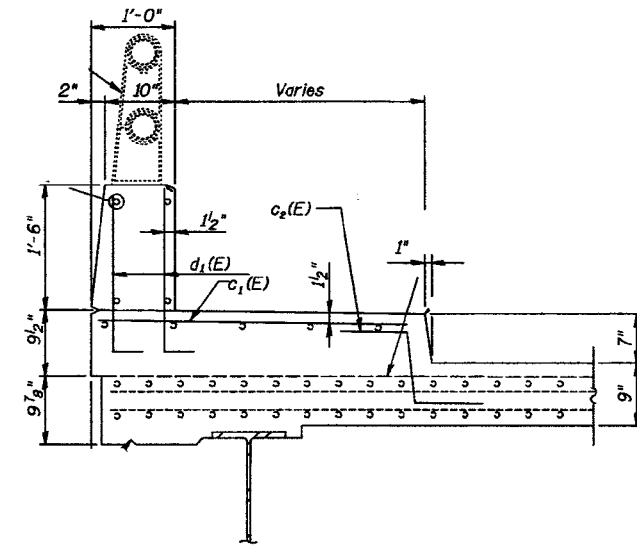
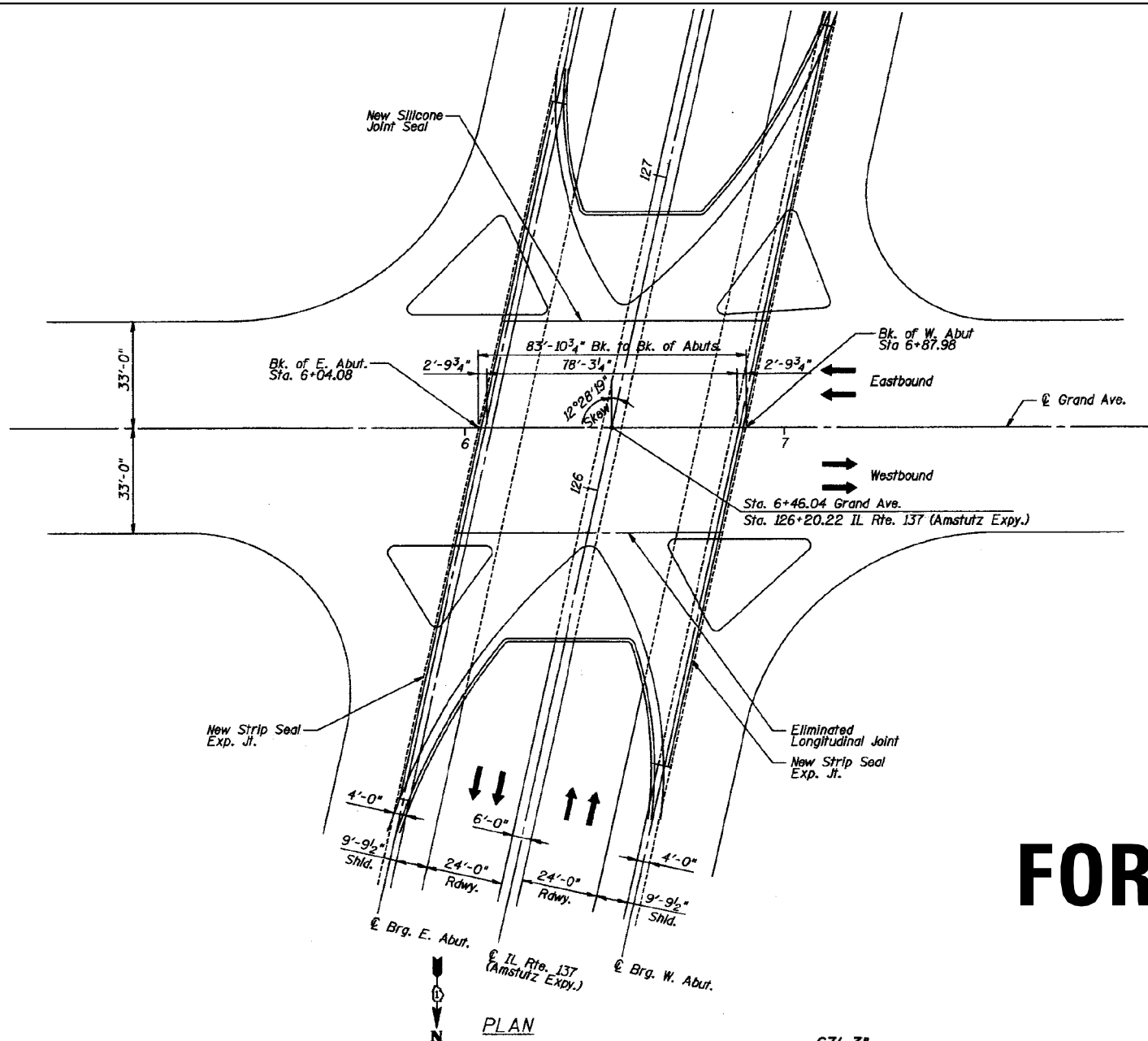
PLAN

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 5 (SN 049-0059)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	85014-sh1-plan.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	49	17
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60Y33								
	PLOT DATE = 8/11/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

FOR INFORMATION ONLY

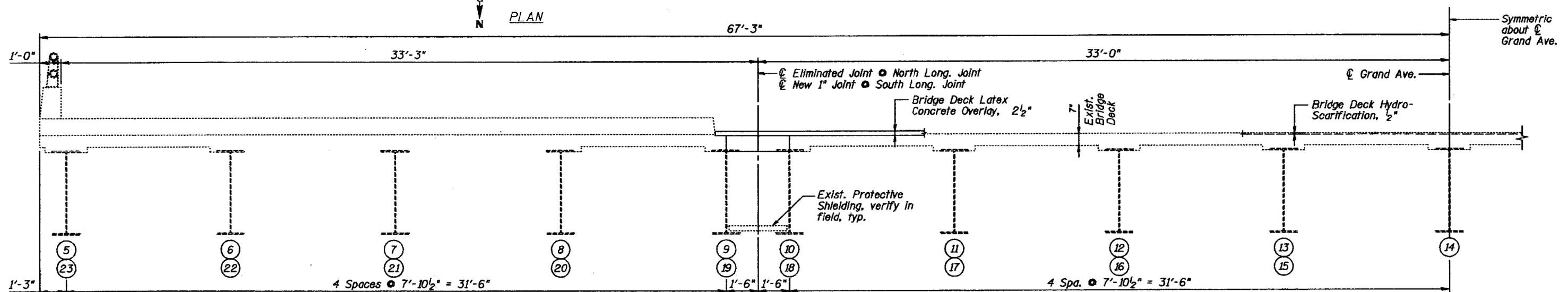


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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -										CONTRACT NO. 60Y33			
	PLOT DATE = 8/11/2014	DATE -	REVISED -										ILLINOIS FED. AID PROJECT			



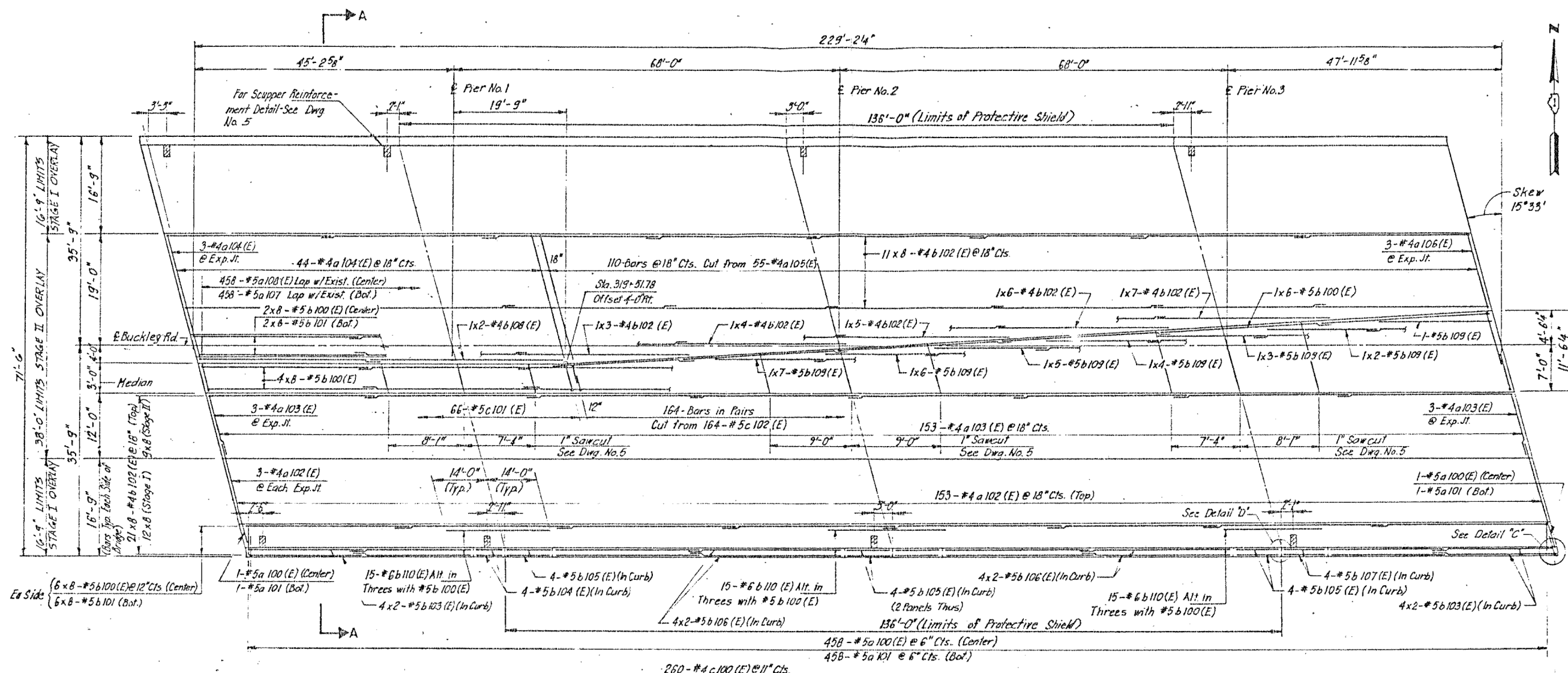
RAILING DETAIL

FOR INFORMATION ONLY

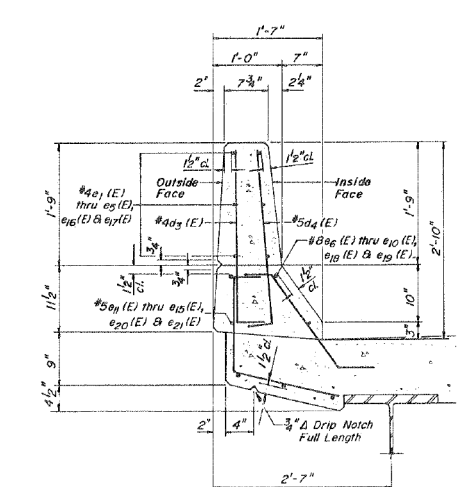
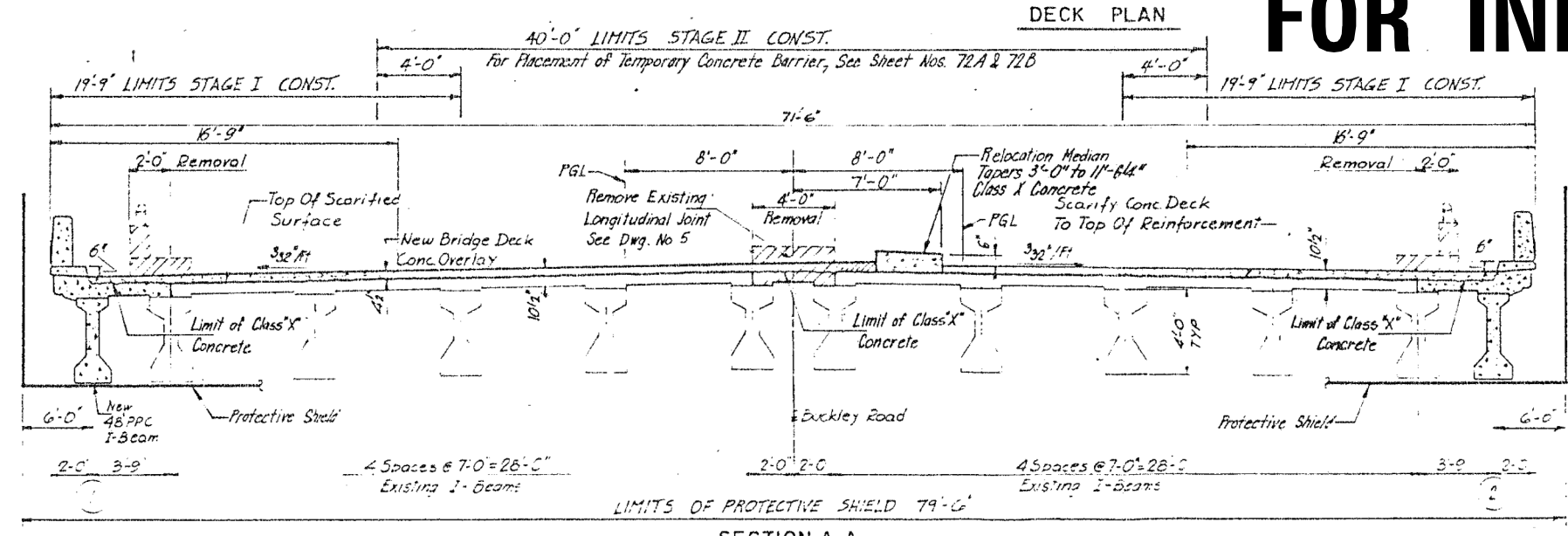


HALF DECK CROSS SECTION
(Looking East Near Midspan)

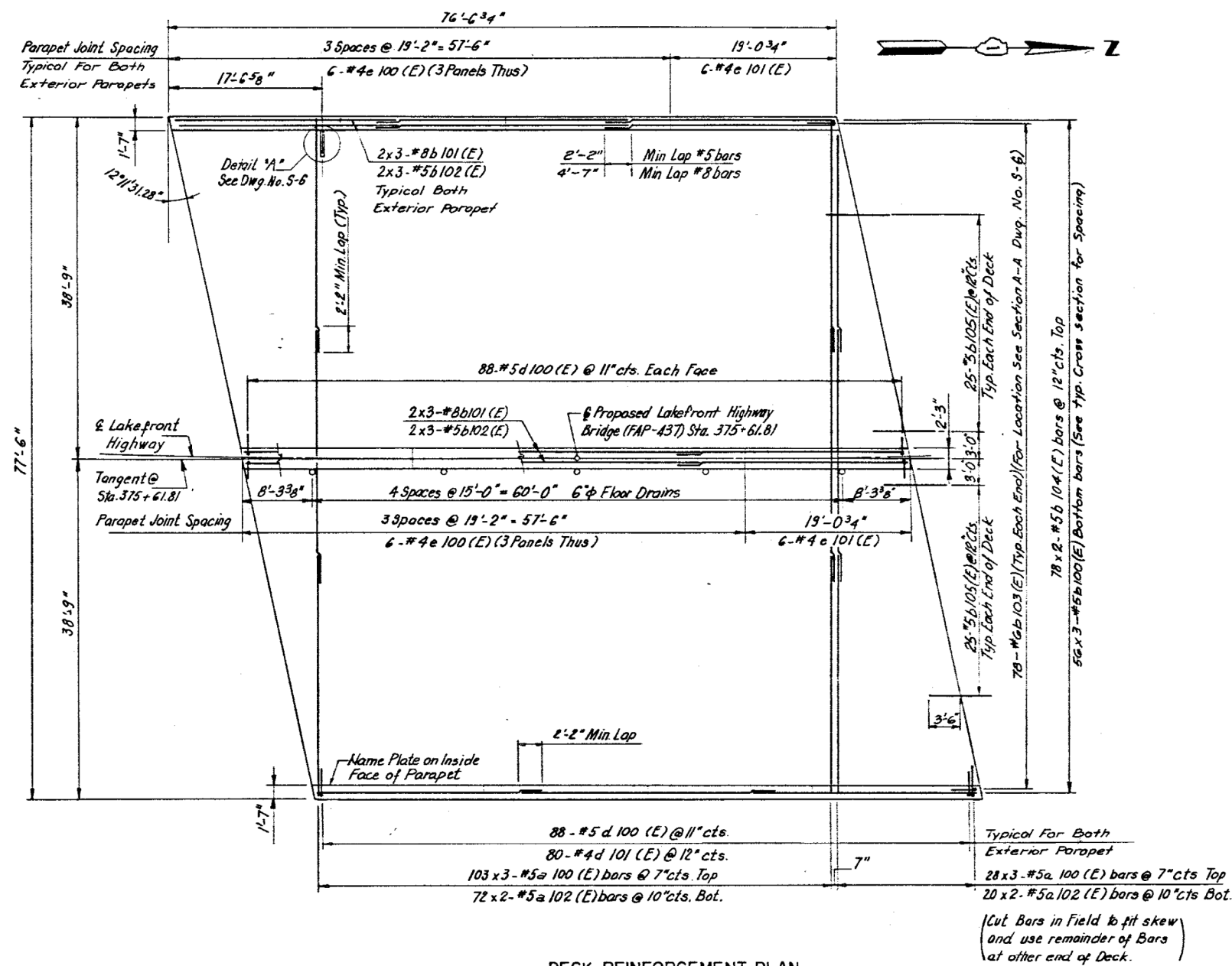
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Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR.	2014-039I	LAKE	49	21
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		DATE -	REVISED -										ILLINOIS FED. AID PROJECT			



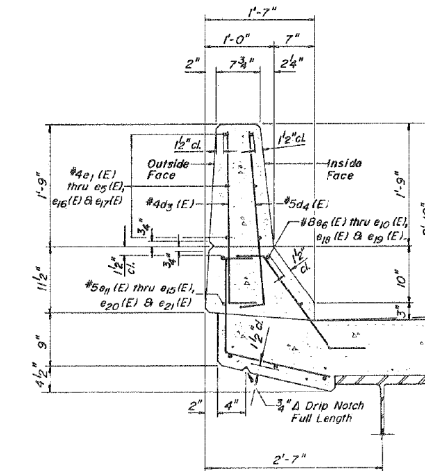
FOR INFORMATION ONLY



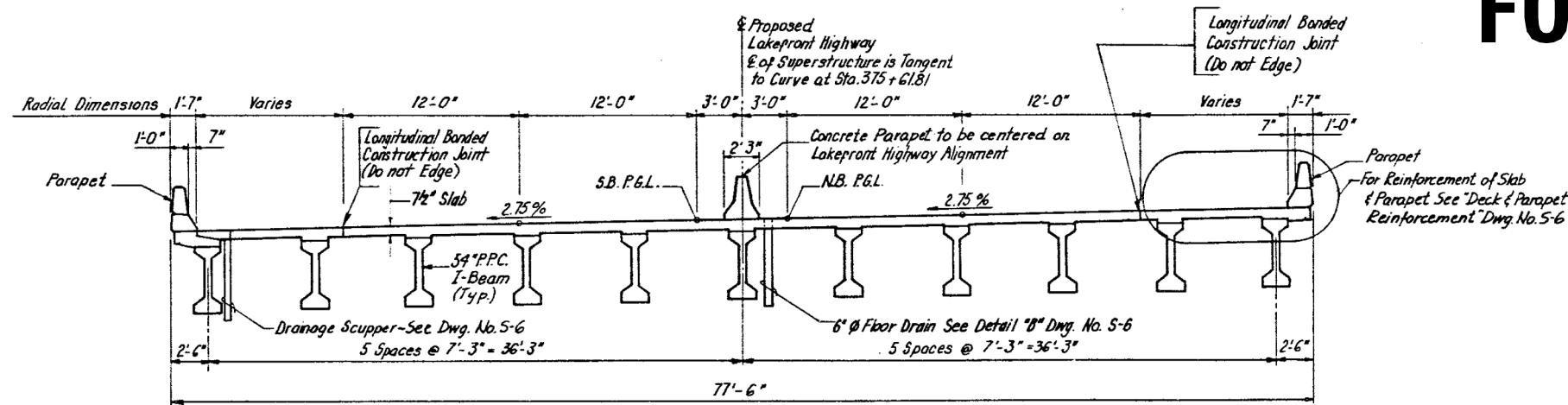
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Default	PLOT DATE = 8/11/2014	CHECKED -	REVISED -			CONTRACT NO. 60Y33					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



DECK REINFORCEMENT PLAN



PARAPET DETAIL (TYP)



TYPICAL CROSS SECTION (LOOKING NORTH)

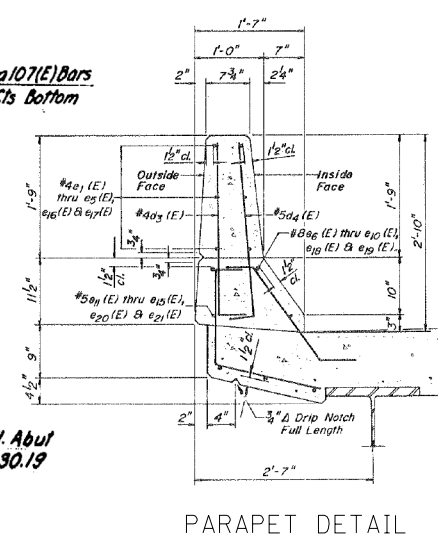
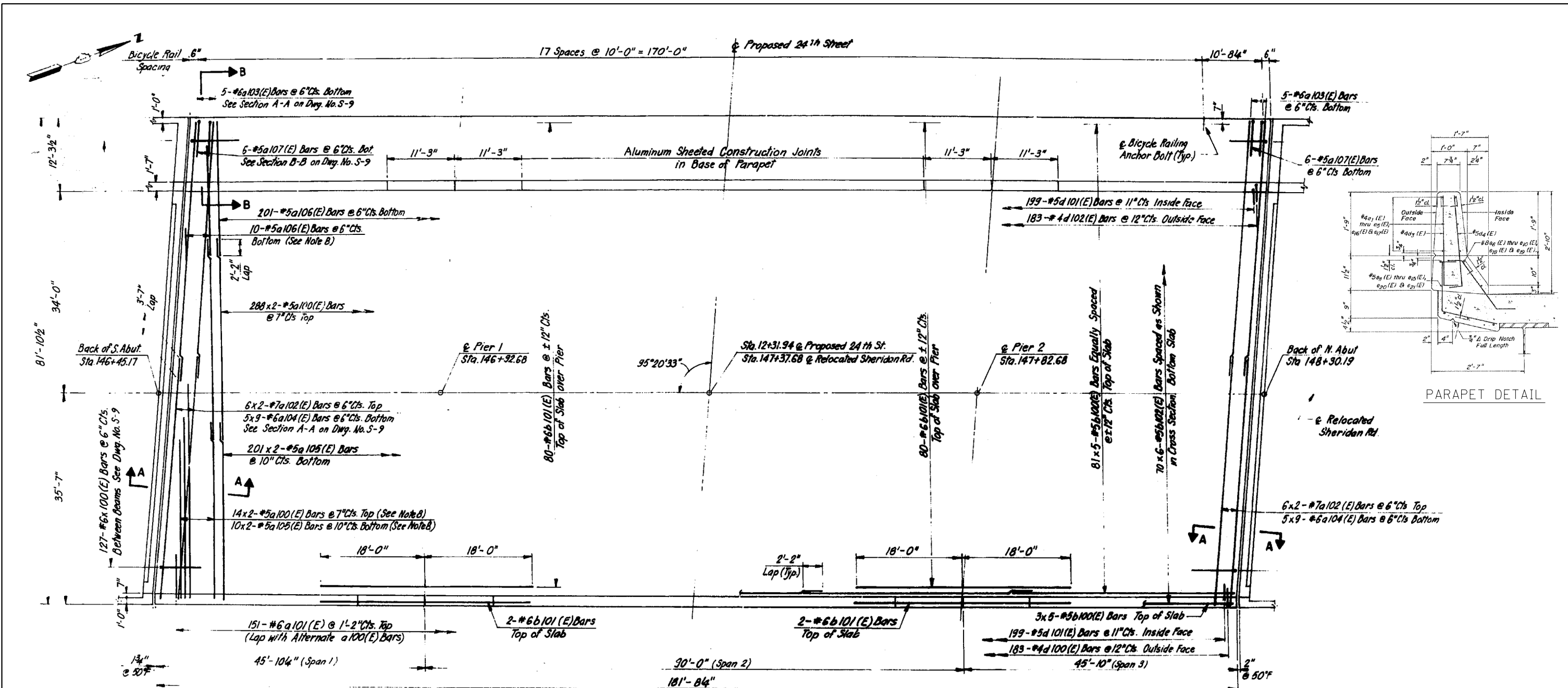
FOR INFORMATION ONLY

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	PLOT DATE = 8/11/2014	DATE -	REVISED -

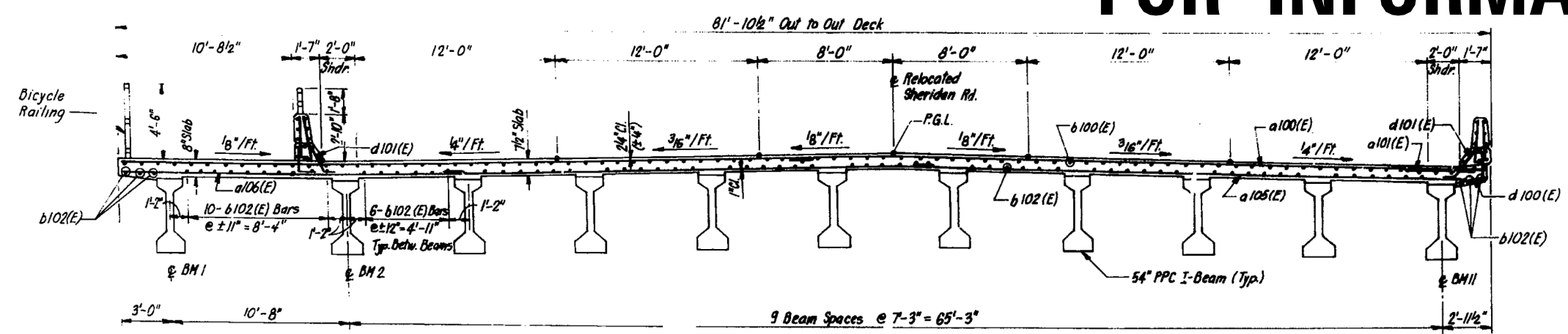
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS	
LOCATION 12 (SN 049-0159)	
SCALE:	SHEET OF SHEETS STA. TO STA.

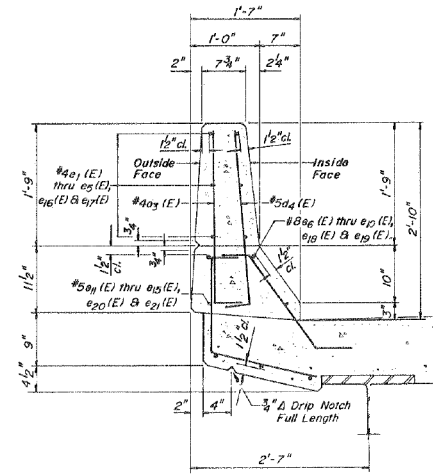
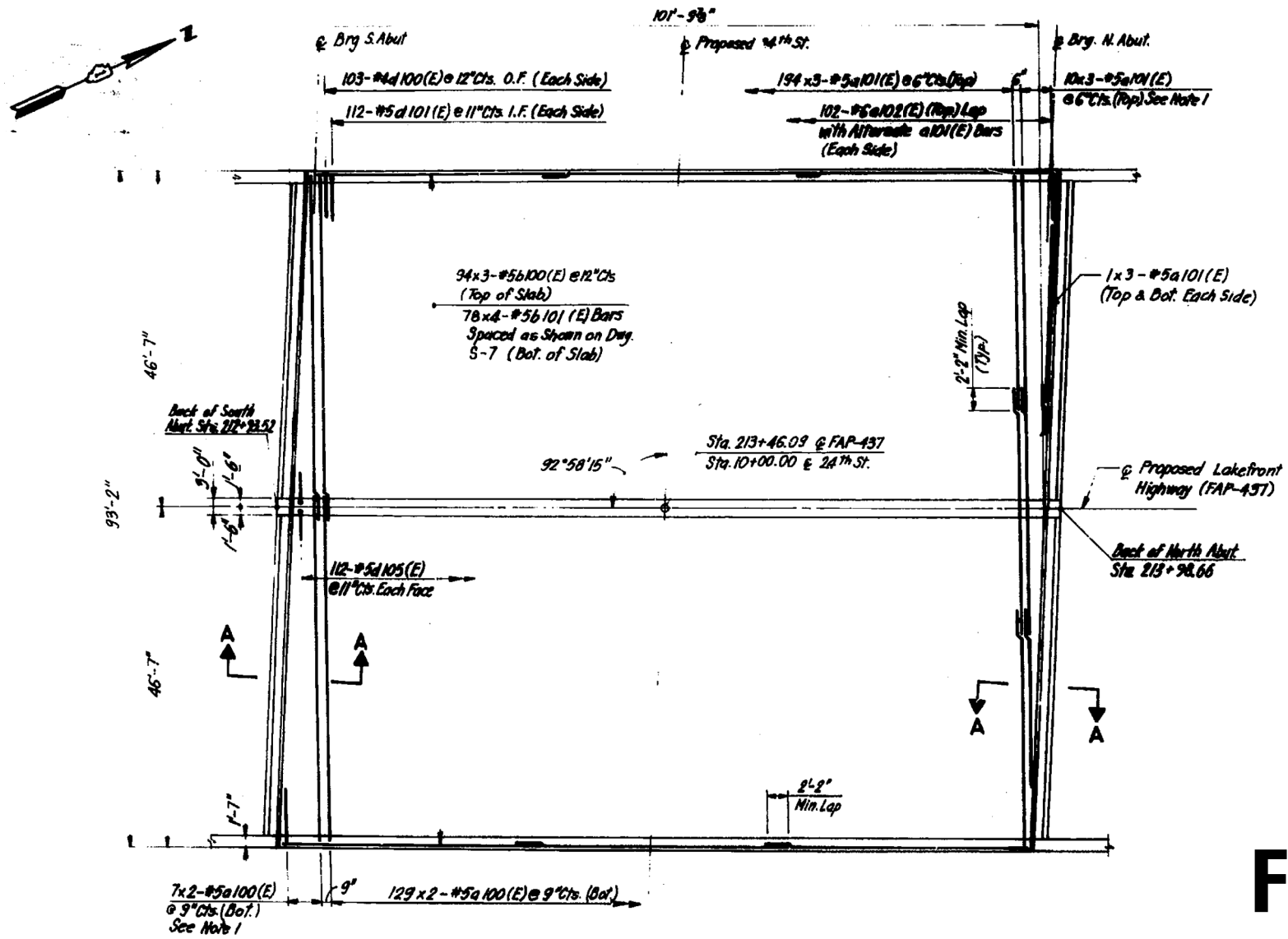
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	23
CONTRACT NO. 60Y33				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY



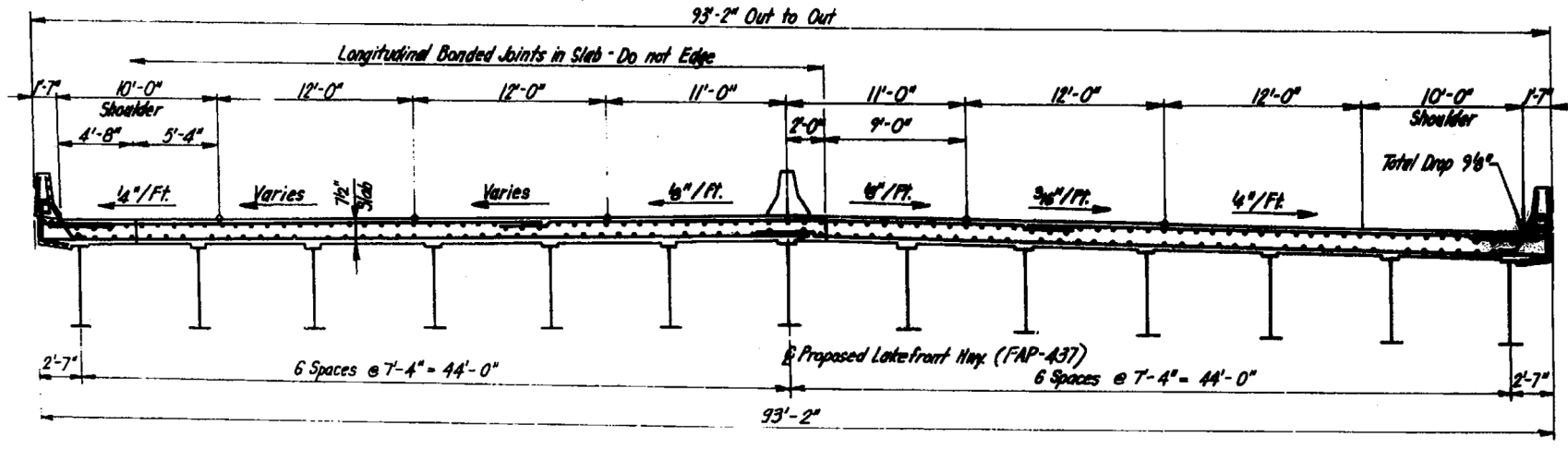
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												CONTRACT NO. 60Y33		ILLINOIS FED. AID PROJECT		



PARAPET DETAIL (TYP)

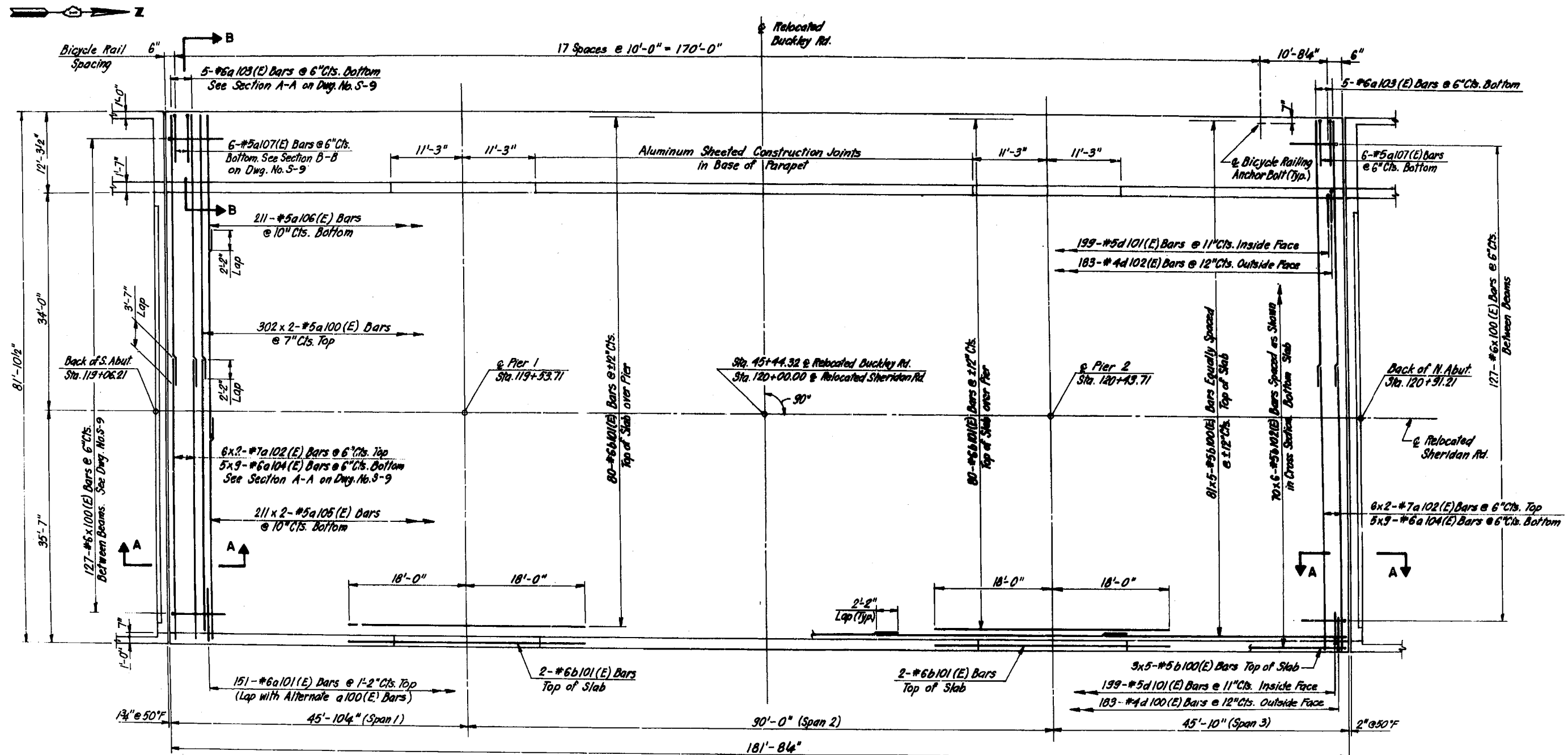
FOR INFORMATION ONLY

PLAN



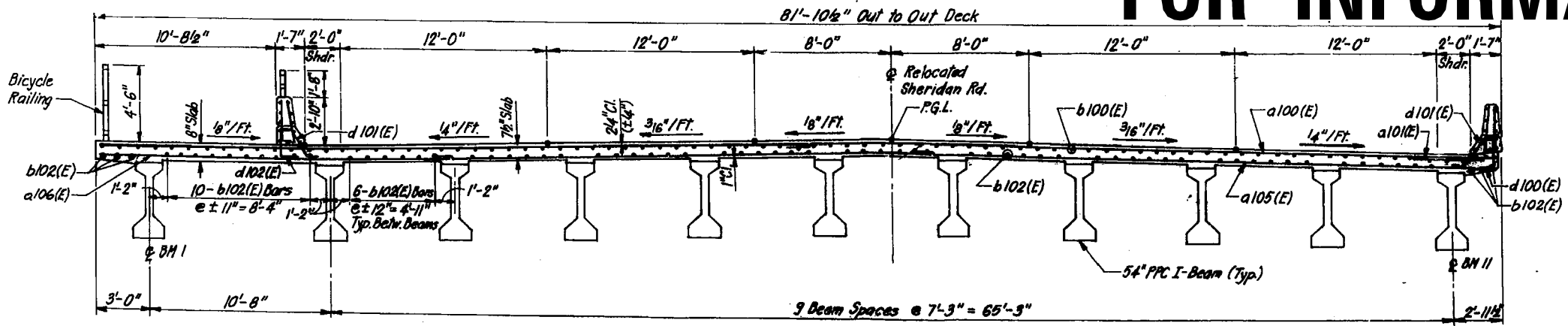
CROSS SECTION
(LOOKING UP-STATION)

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ei:\pw\work\p\dot\hardnettr\d0391061\015014-shr-plan.dgn		DRAWN -	REVISED -		VAR.	2014-039I	LAKE	49	25				
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60Y33								
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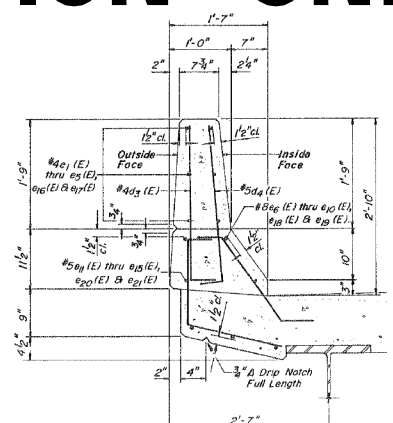


DECK PLAN

FOR INFORMATION ONLY



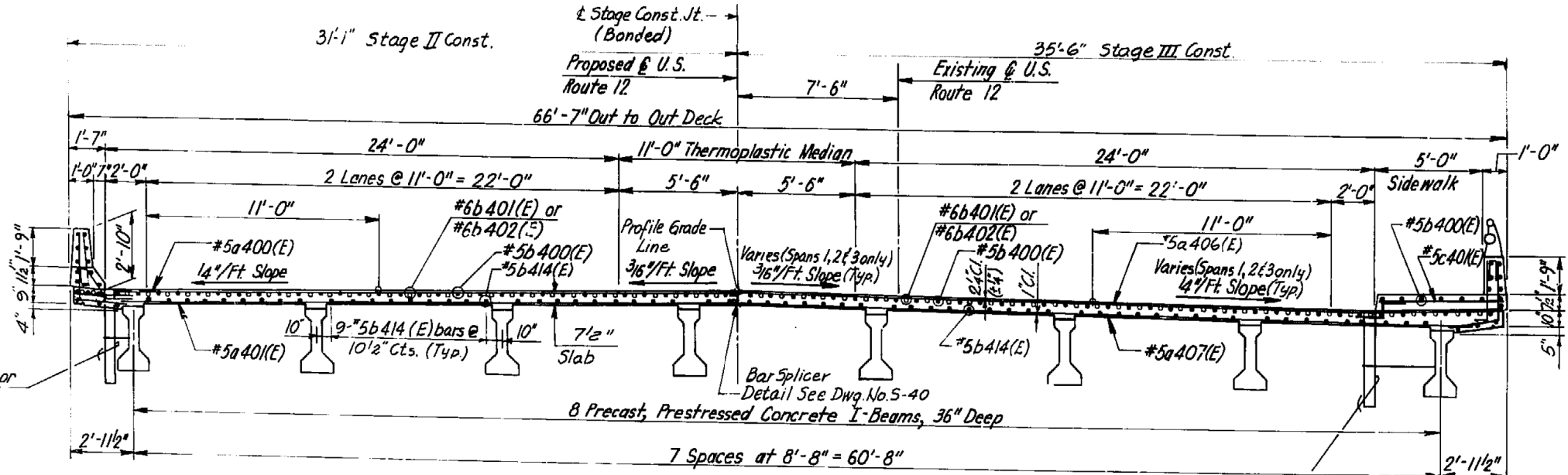
CROSS SECTION



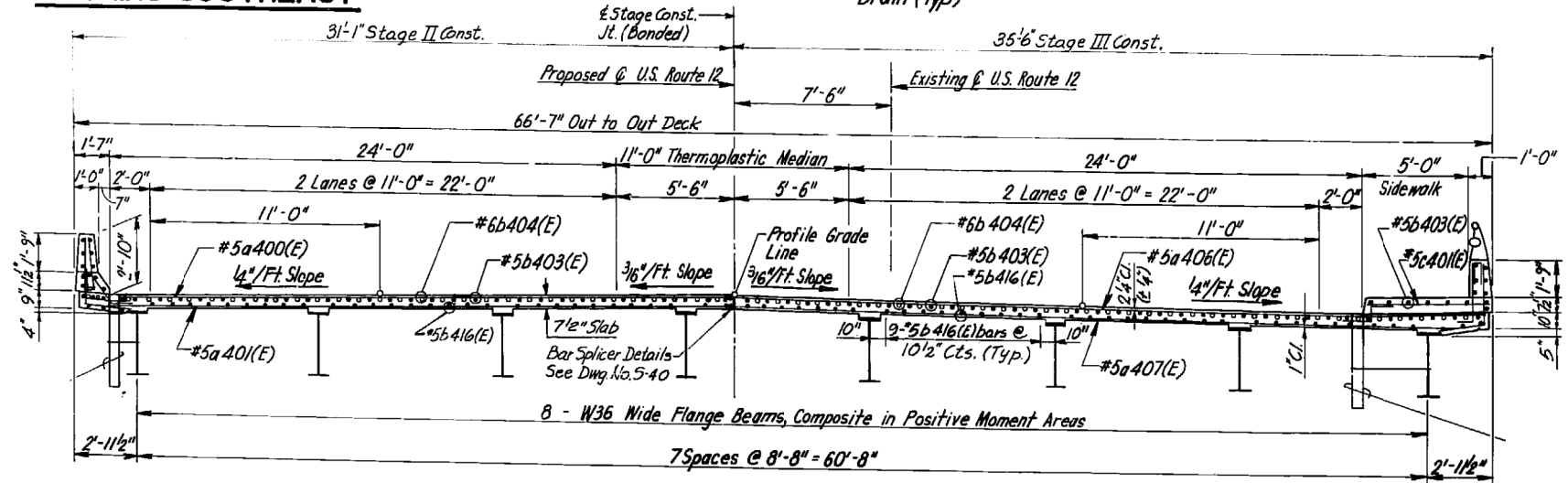
PARAPET DETAIL

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	PLOT DATE = 8/11/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

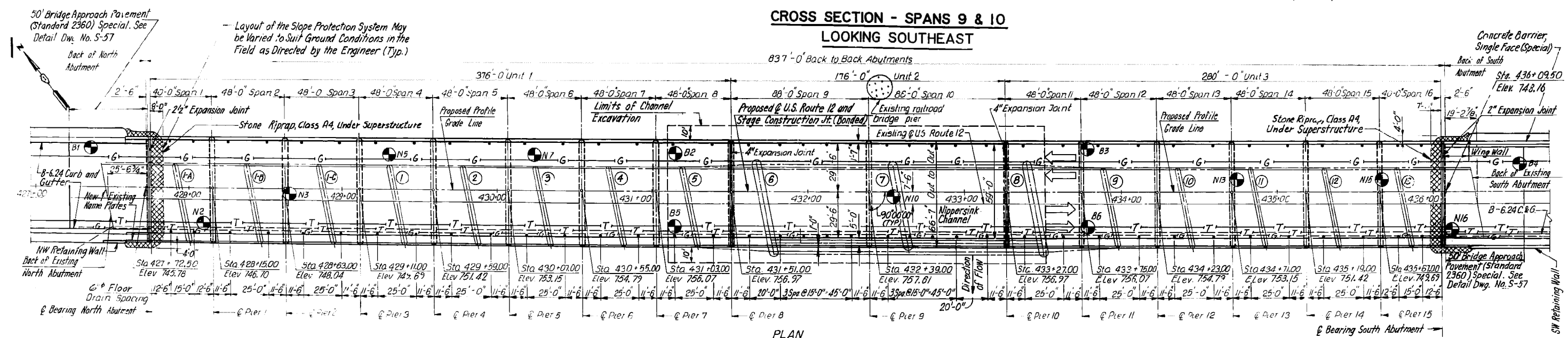
FOR INFORMATION ONLY



**CROSS SECTION - SPANS 1 THRU 8 (11 THRU 16 SIMILAR)
LOOKING SOUTHEAST**

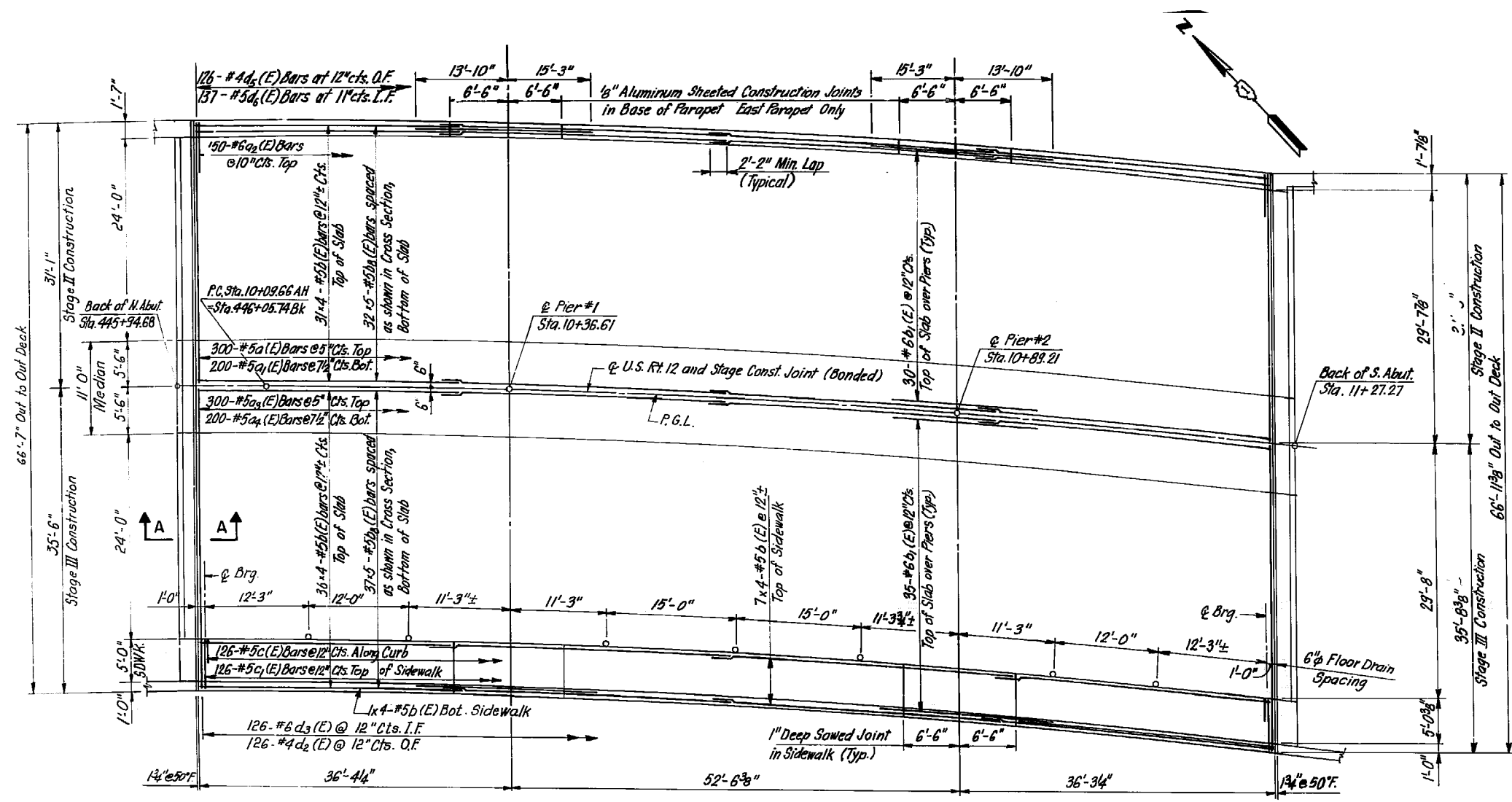


**CROSS SECTION - SPANS 9 & 10
LOOKING SOUTHEAST**



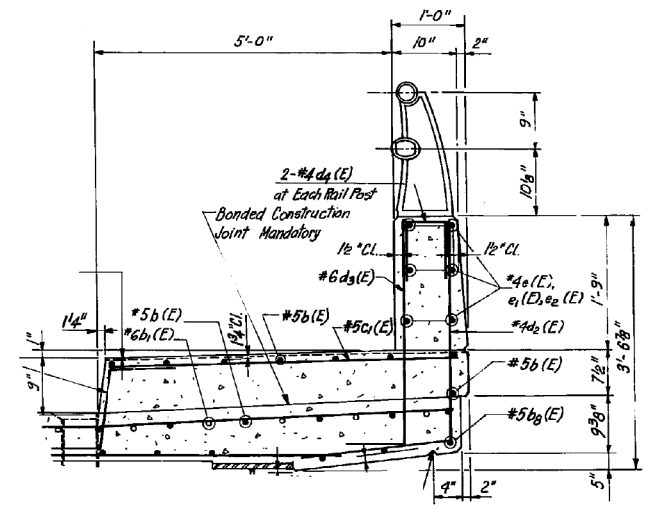
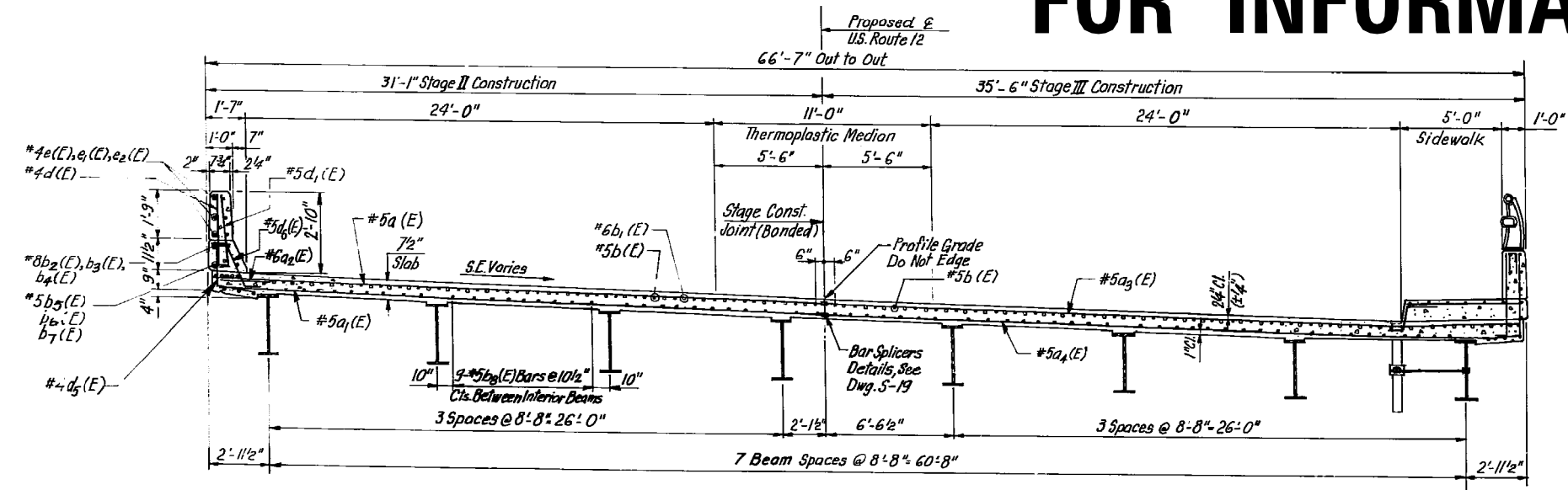
PLAN

FILE NAME -	USER NAME = hardnettbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 16 (SN 049-0167)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	49	27
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		DATE -	REVISED -										CONTRACT NO. 60Y33	



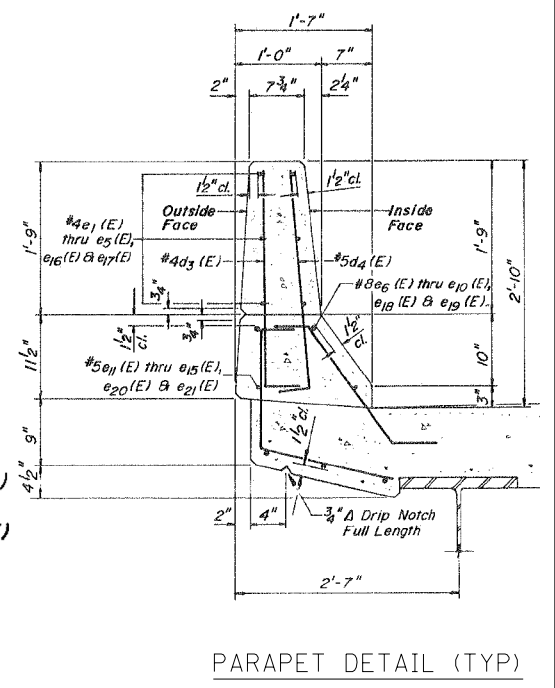
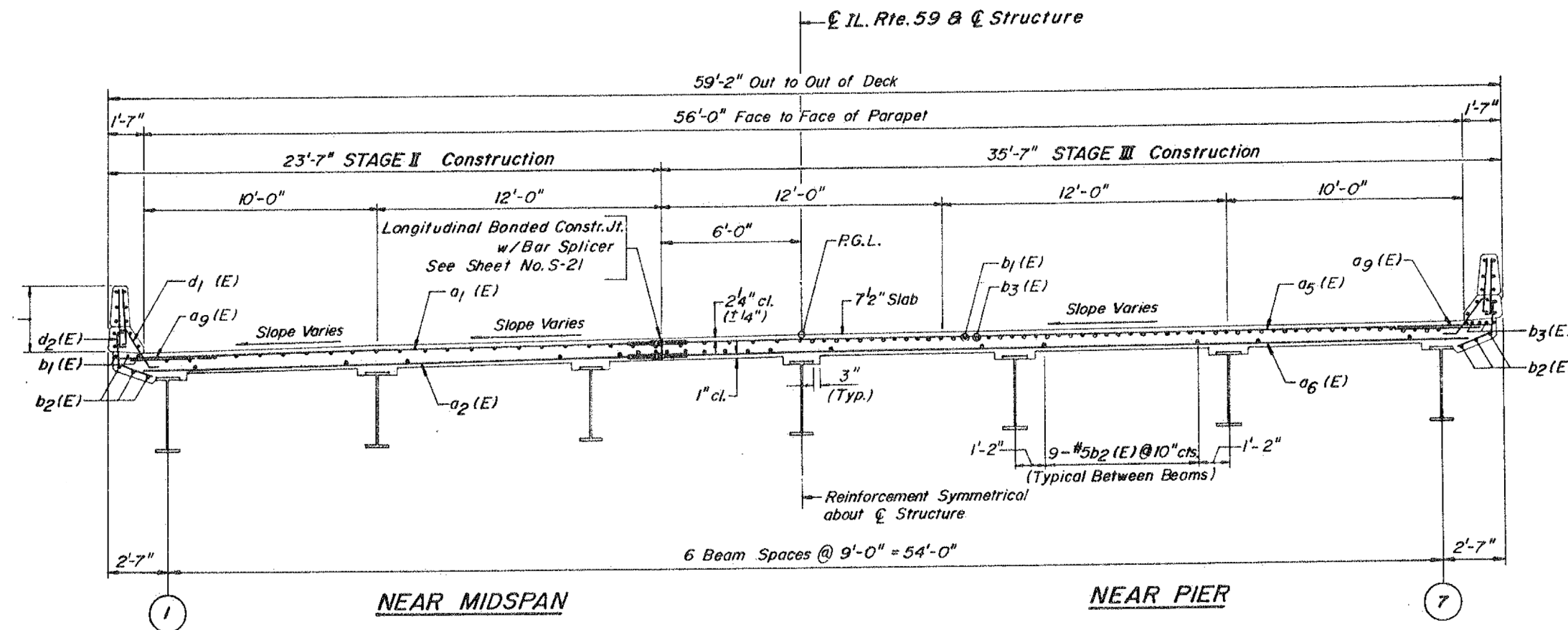
PLAN

FOR INFORMATION ONLY



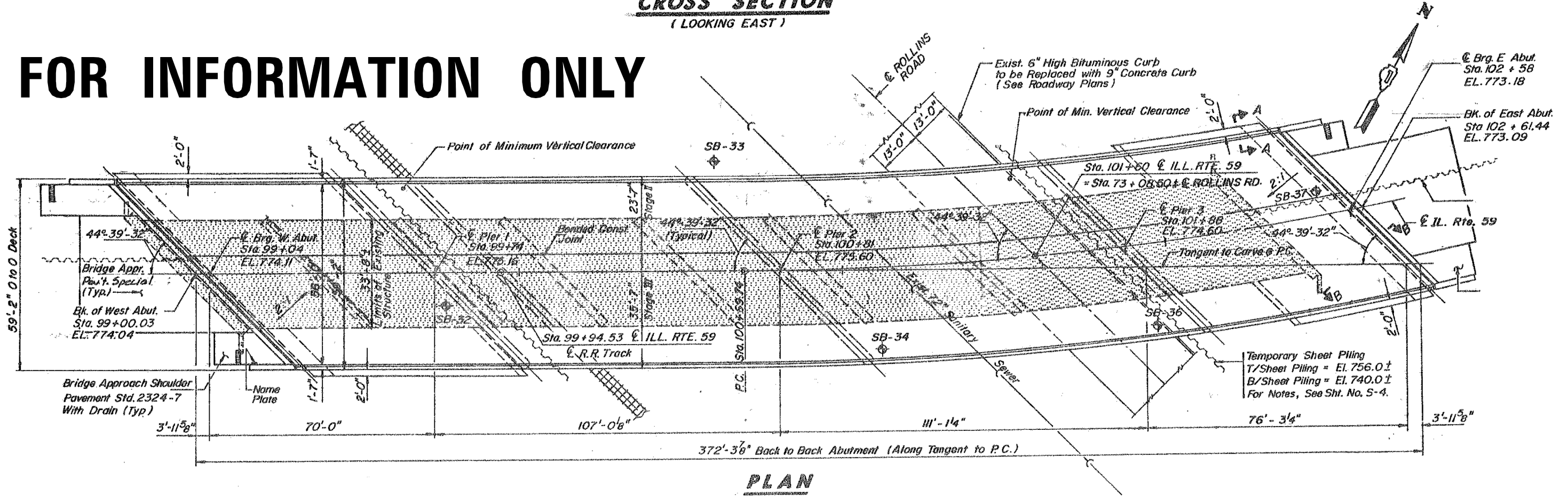
RAILING DETAIL

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 17 (SN 049-0019)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR.	2014-039I	LAKE	49	28
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		DATE -	REVISED -										ILLINOIS FED. AID PROJECT			



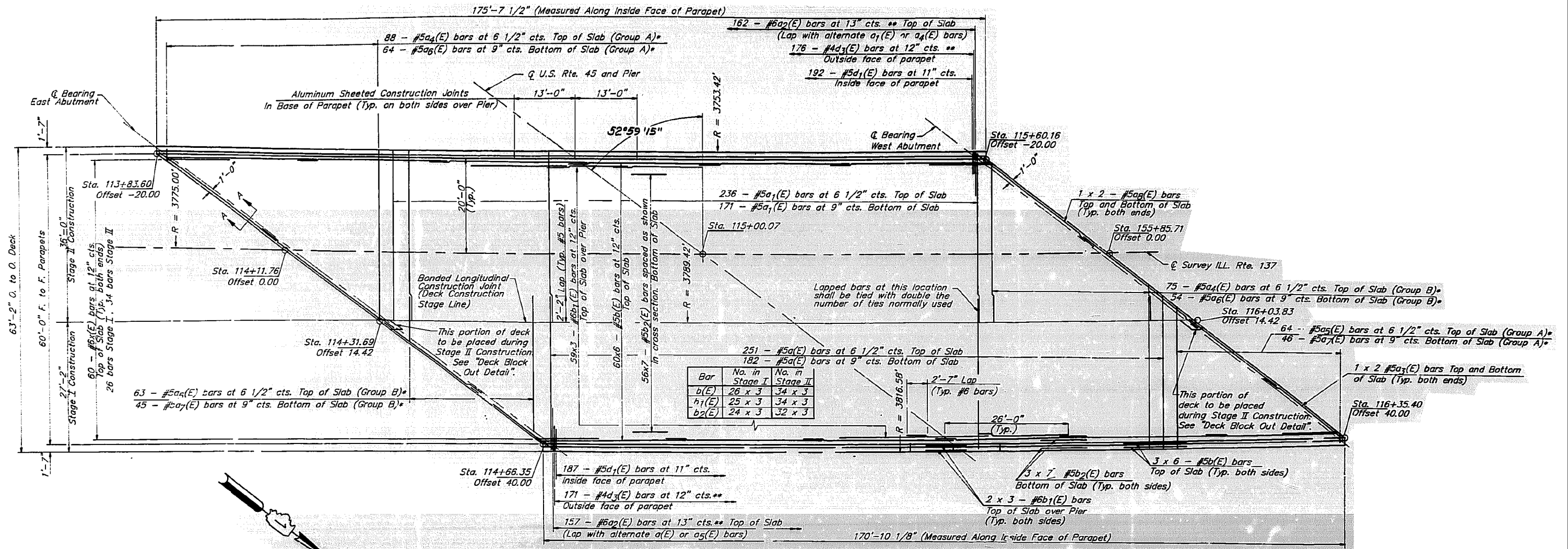
CROSS SECTION
(LOOKING EAST)

FOR INFORMATION ONLY

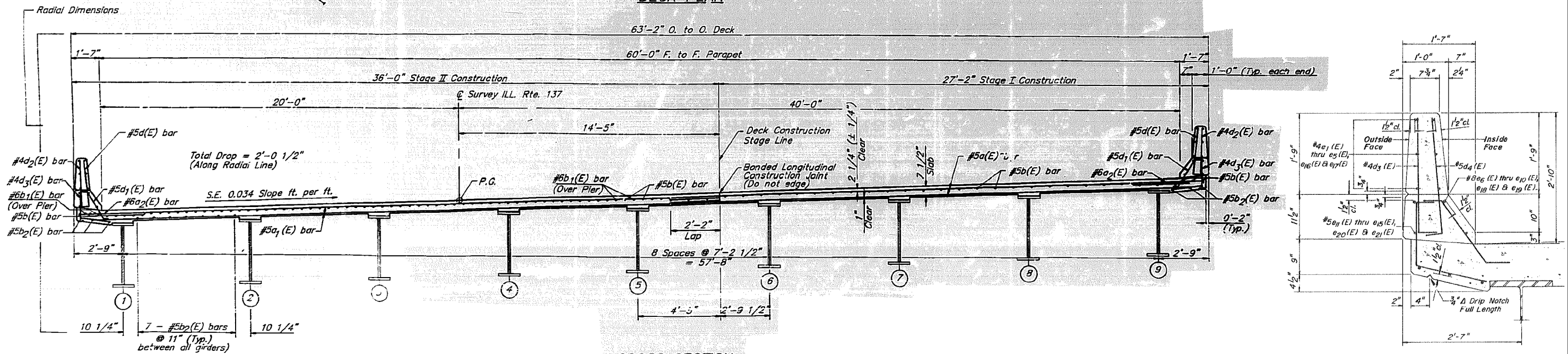


PLAN

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 18 (SN 049-0171)				F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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		DATE -	REVISED -													
												CONTRACT NO. 60Y33		ILLINOIS FED. AID PROJECT		



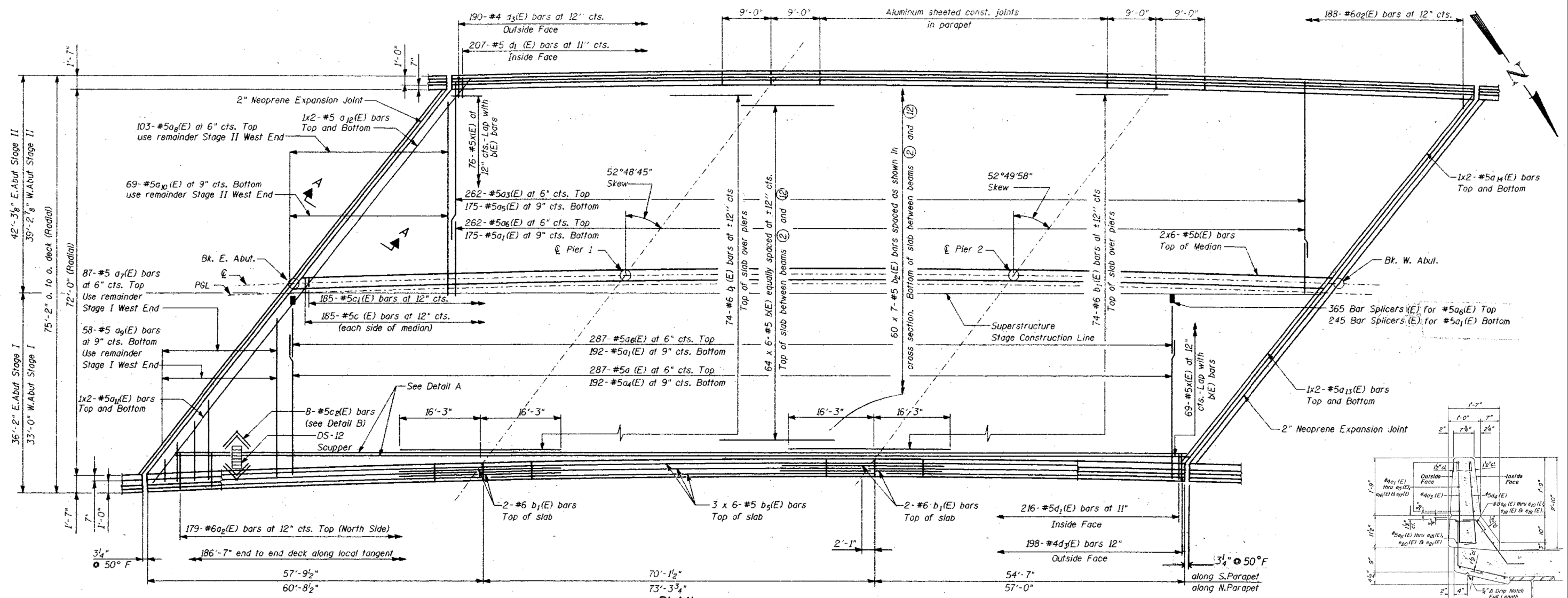
DECK PLAN



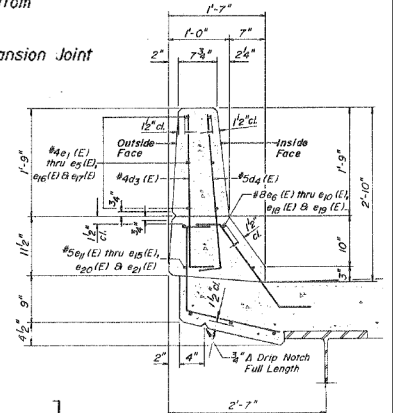
CROSS SECTION (LOOKING WEST)

FOR INFORMATION ONLY PARAPET DETAIL (TYP)

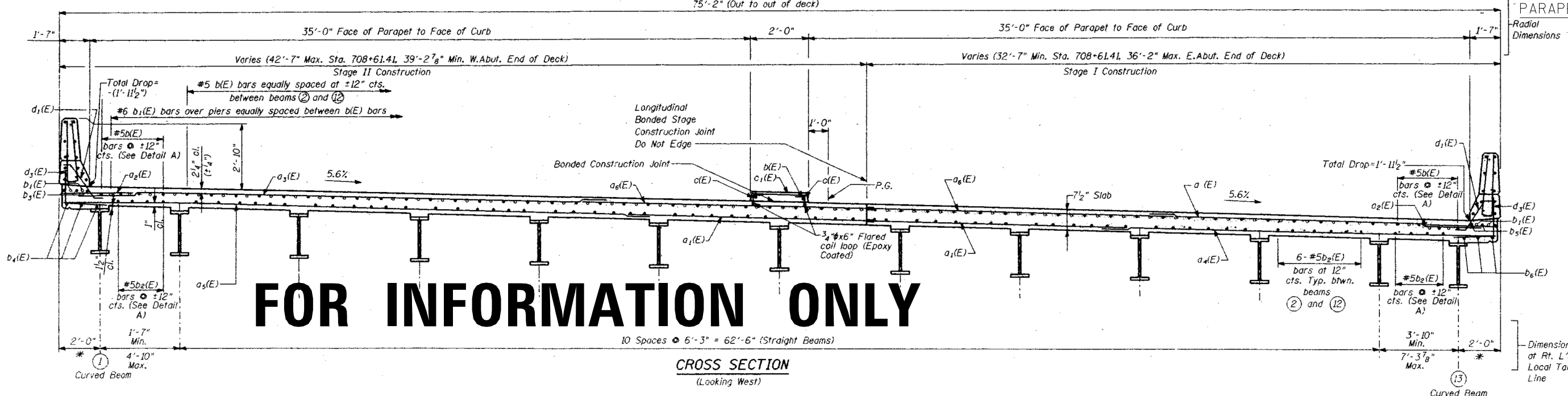
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		DATE -	REVISED -										ILLINOIS FED. AID PROJECT			



PLAN



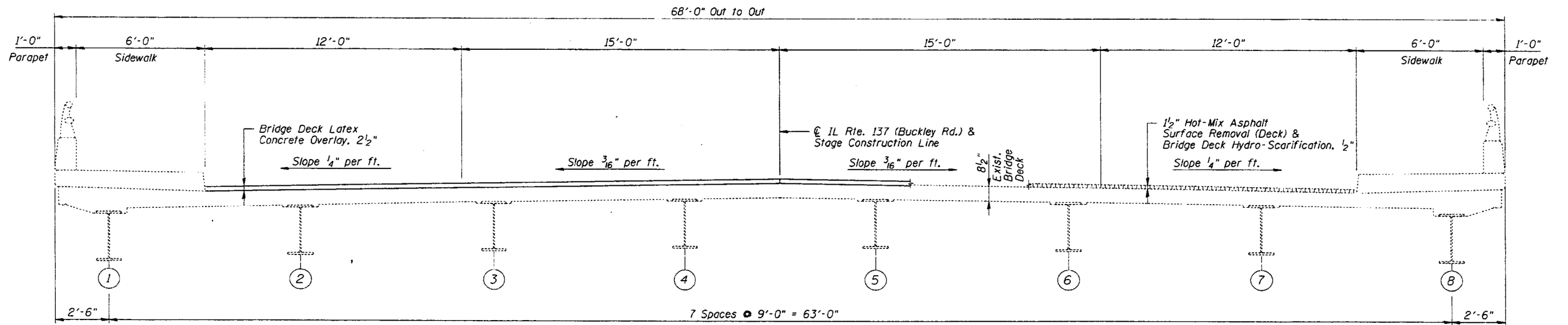
PARAPET DETAIL (TYP)



CROSS SECTION
(Looking West)

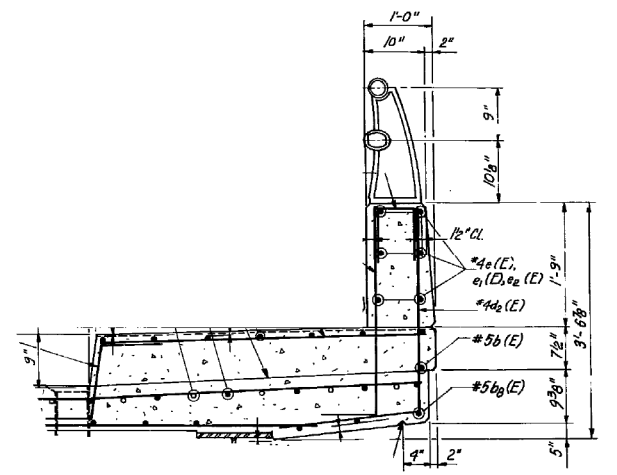
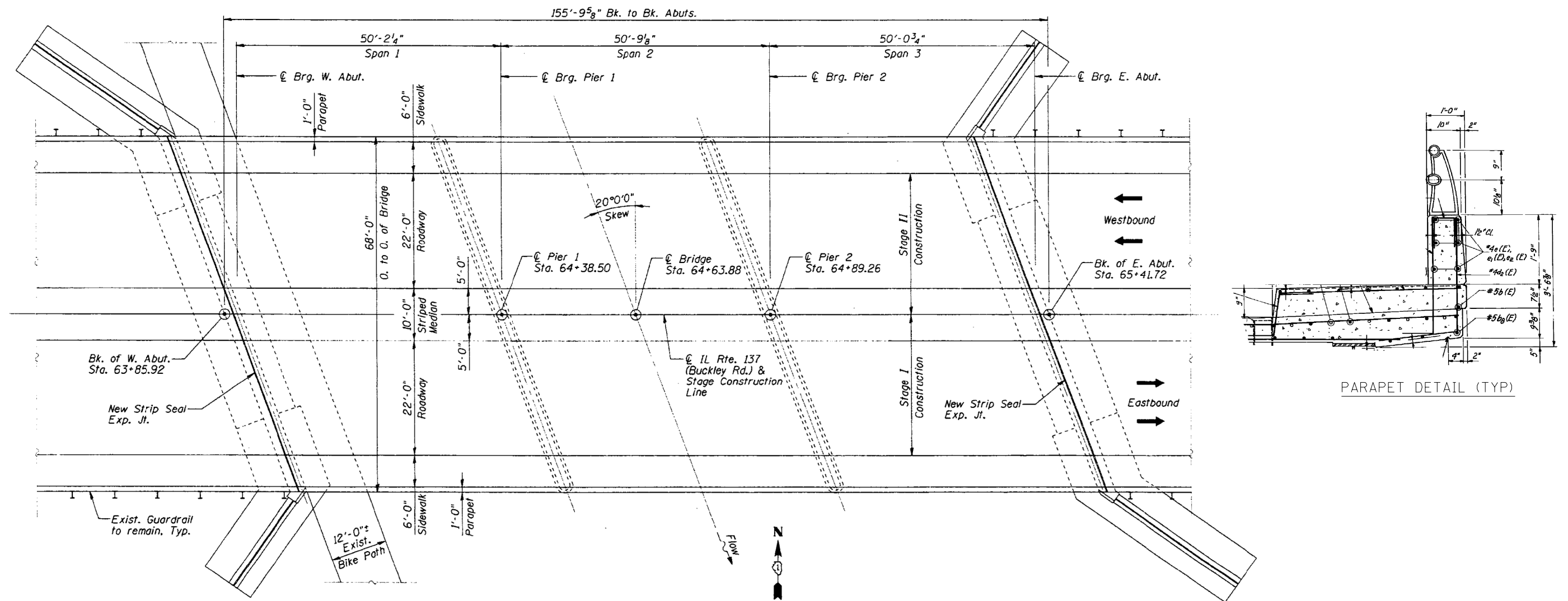
FOR INFORMATION ONLY

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 21 (SN 049-0096)				F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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		DATE -	REVISED -													
												CONTRACT NO. 60Y33		ILLINOIS FED. AID PROJECT		



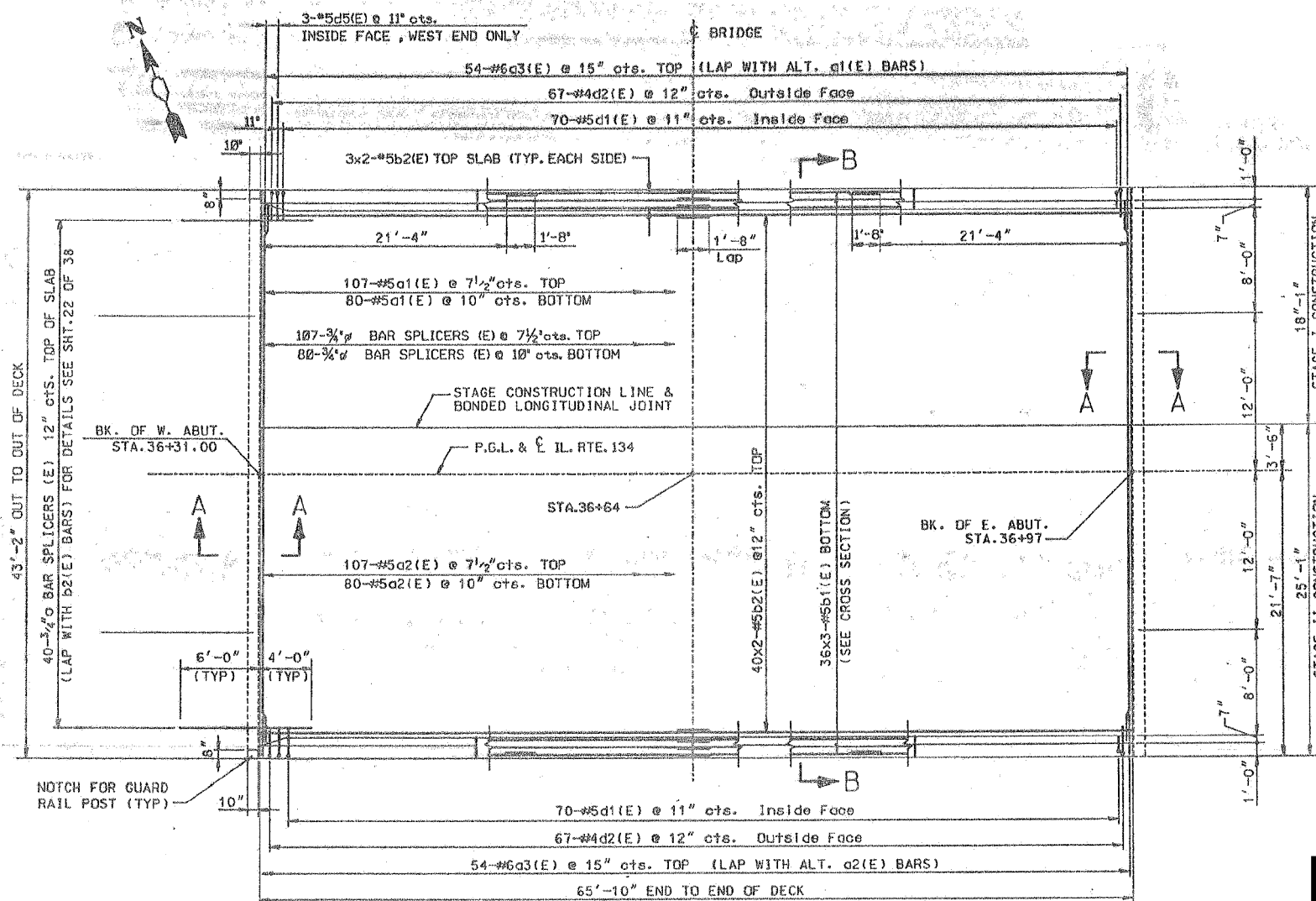
FOR INFORMATION ONLY DECK CROSS SECTION

(Looking East)

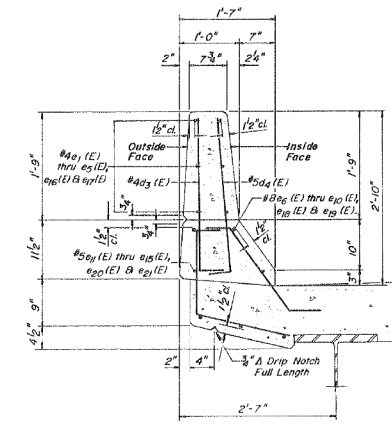


PARAPET DETAIL (TYP)

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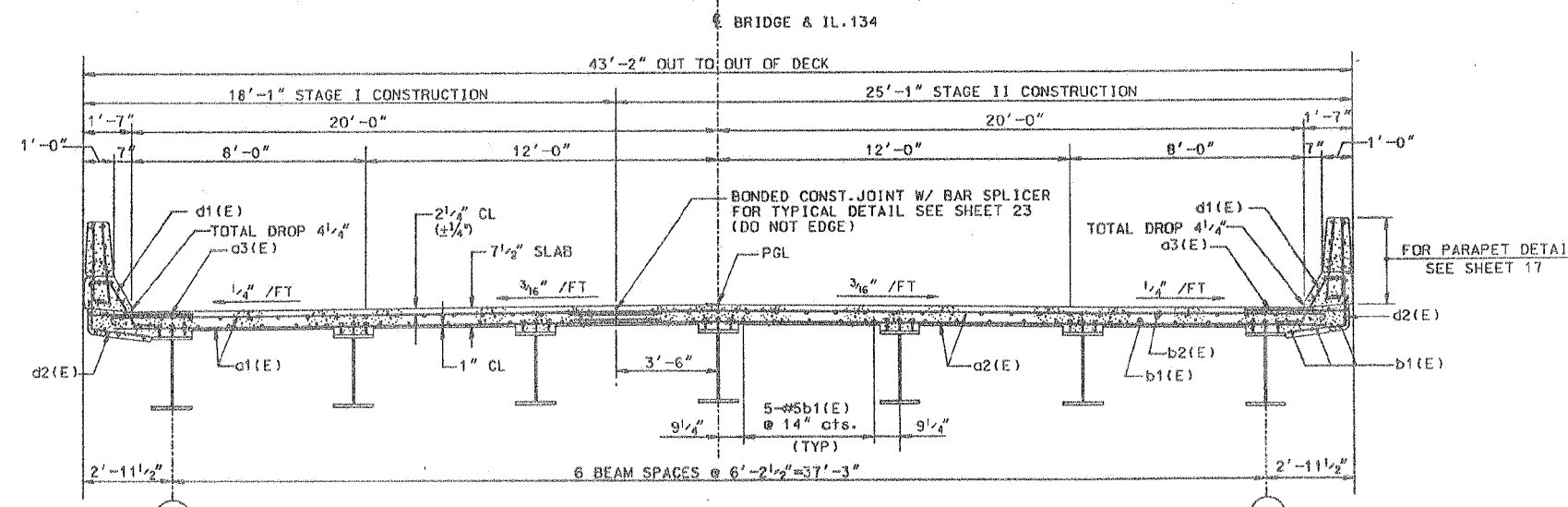


PLAN



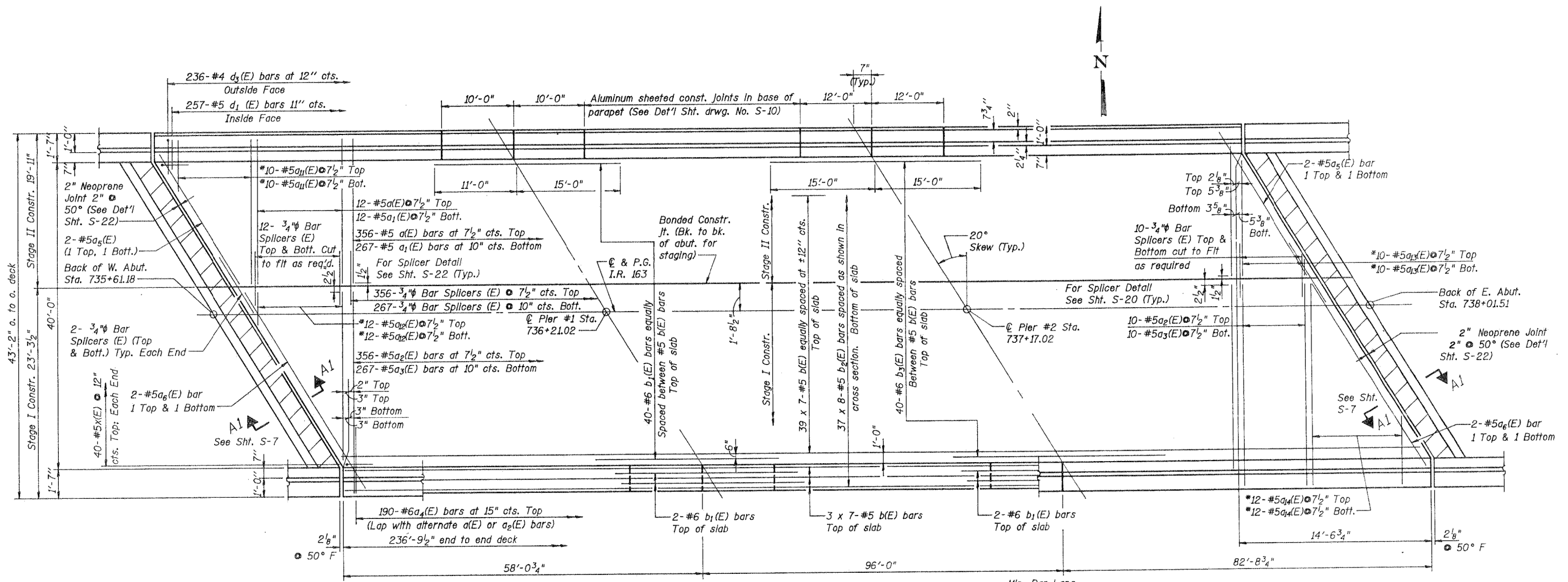
PARAPET DETAIL (TYP)

FOR INFORMATION ONLY



SECTION B-B

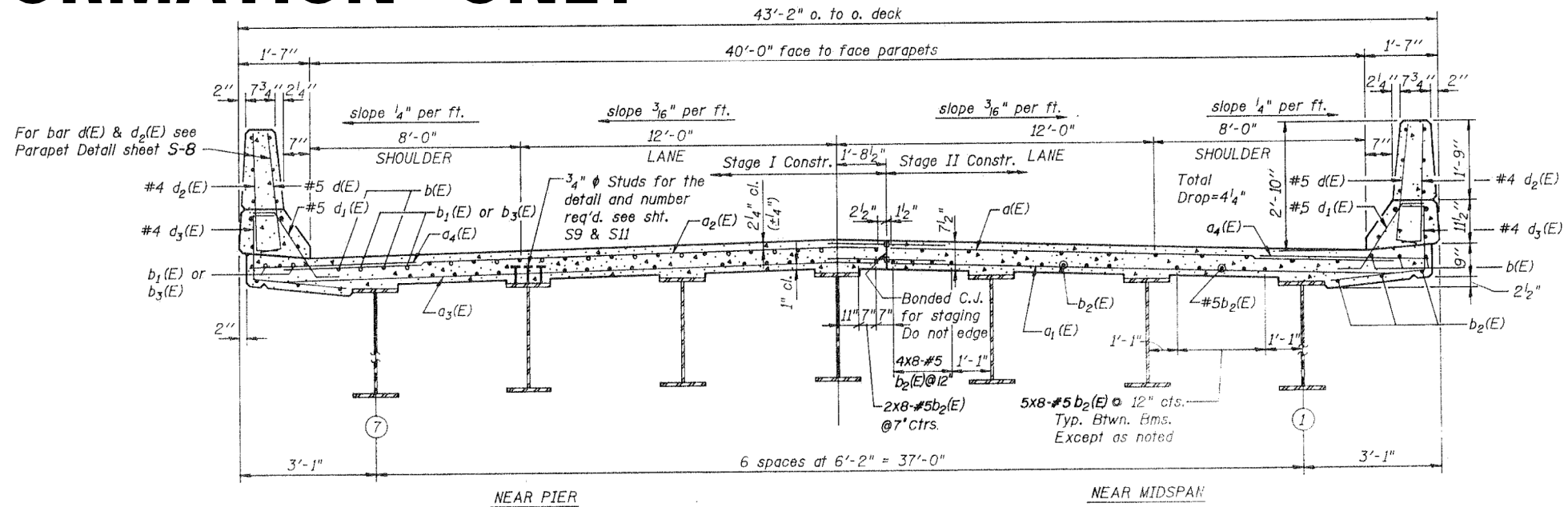
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Default	Plot Scale = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR.	2014-039I	LAKE	49	34
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		DATE -	REVISED -										ILLINOIS FED. AID PROJECT			



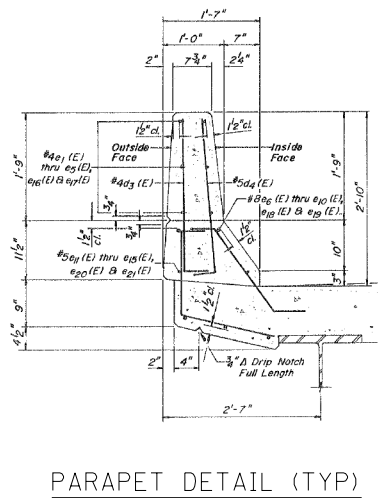
PLAN

Min. Bar Laps.
#5 = 1'-8"

FOR INFORMATION ONLY

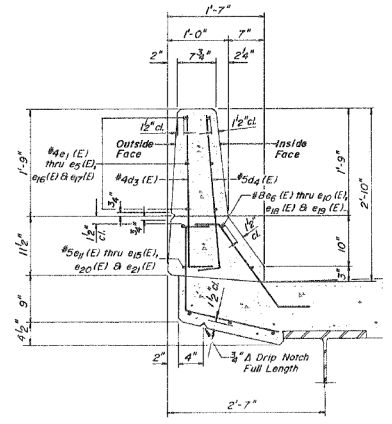
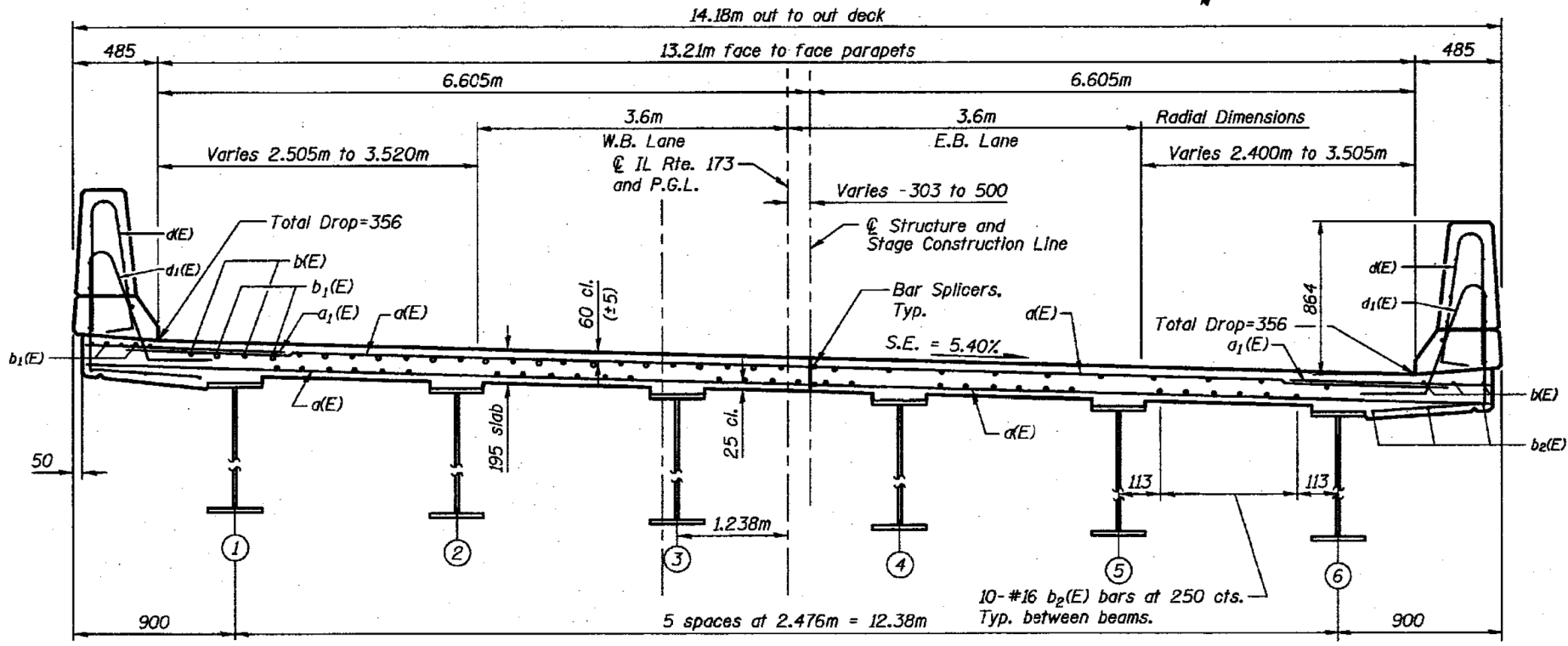
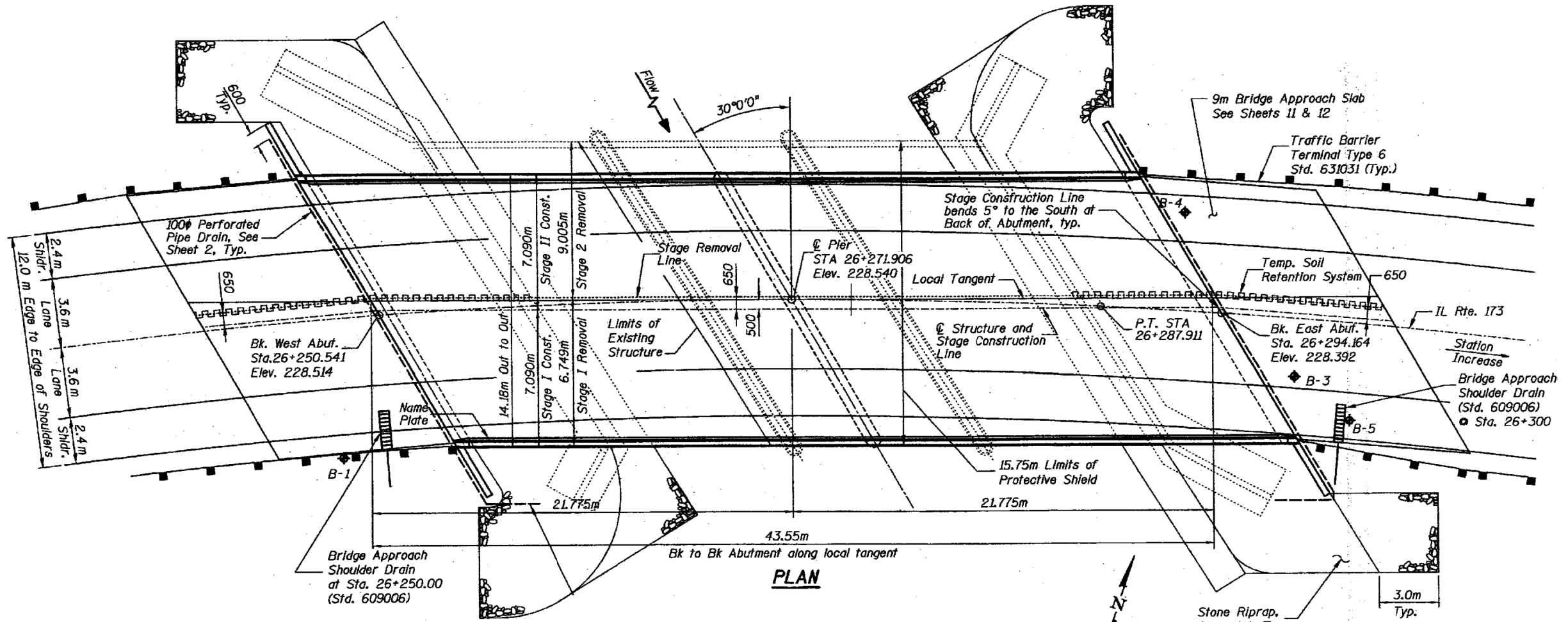


CROSS SECTION
(Looking West)



PARAPET DETAIL (TYP)

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 24 (SN 049-0178)			F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pwork\pwork\hardnettr\d0391061\015014-shr-plan.dgn		DRAWN -	REVISED -		VAR.	2014-039I	LAKE	49	35	CONTRACT NO. 60Y33		
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
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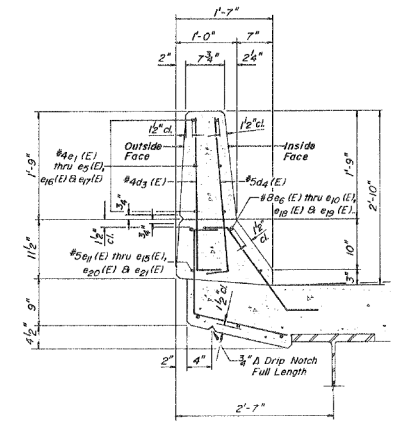
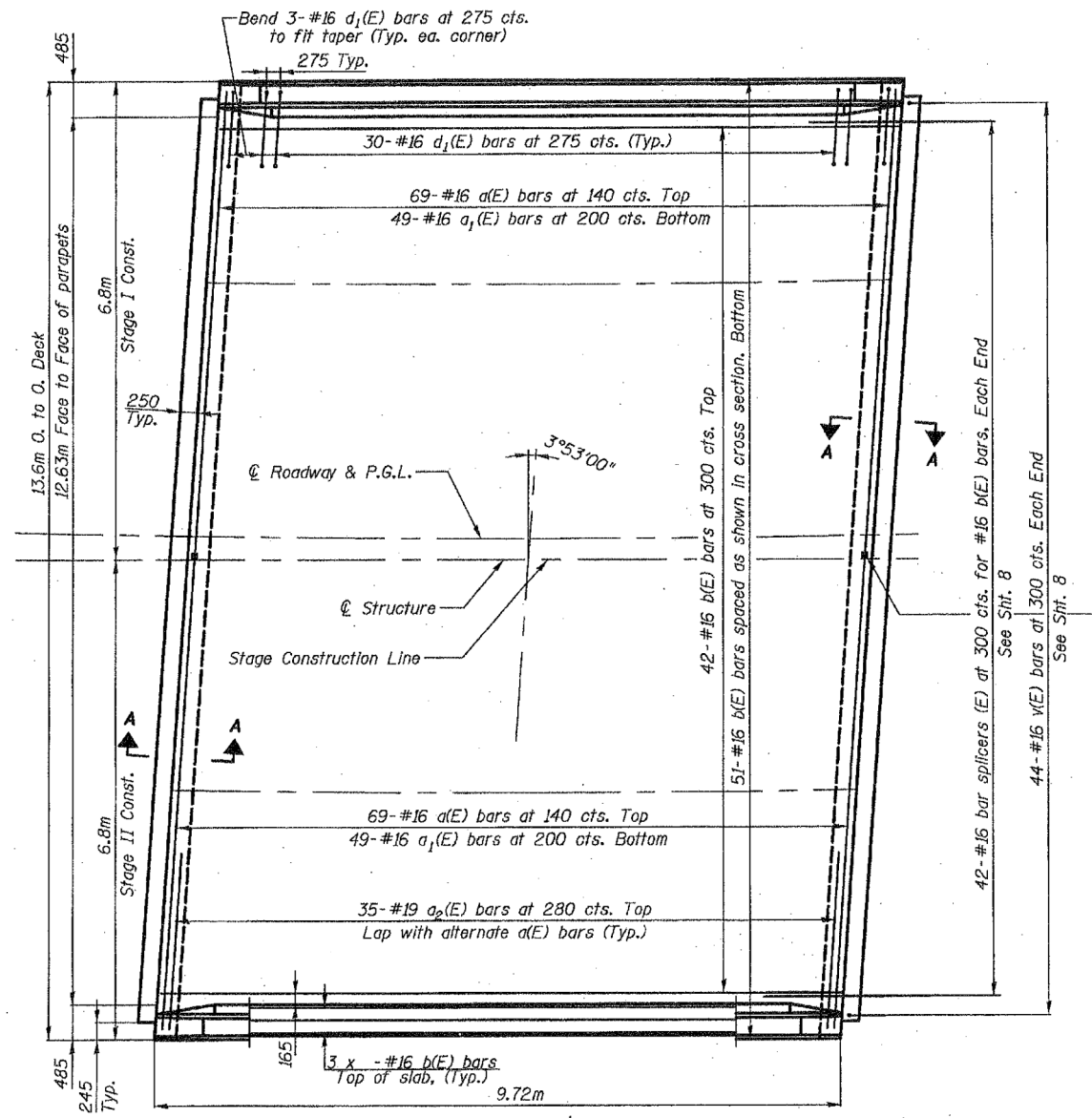
FOR INFORMATION ONLY

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	DATE = 8/11/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS			
LOCATION 25 (SN 049-0198)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

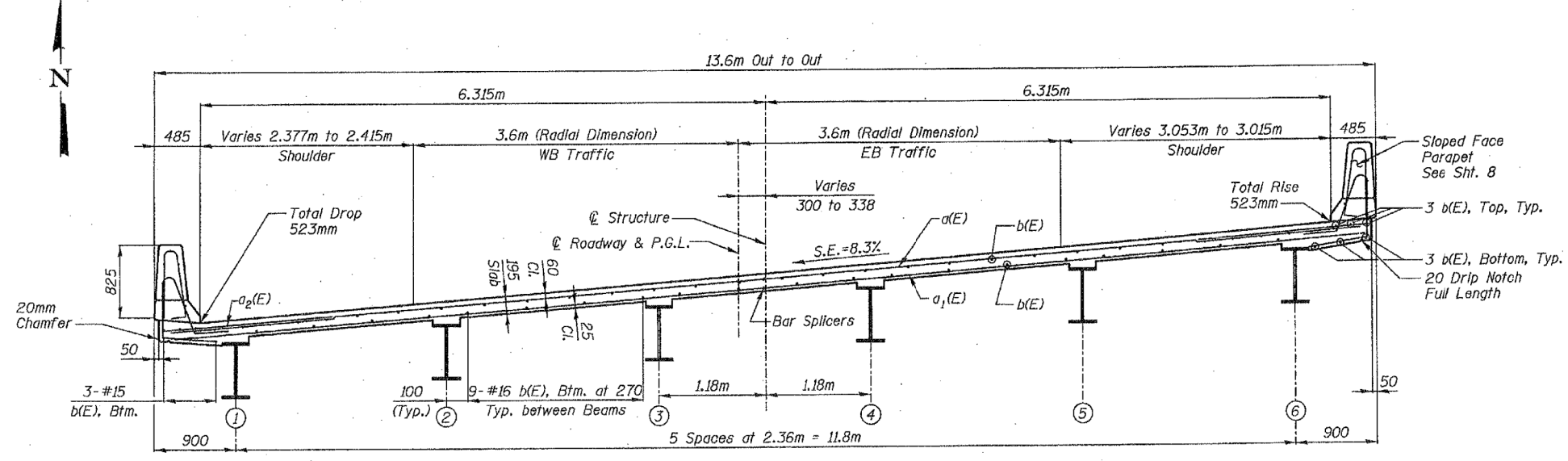
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-039I	LAKE	49	36
CONTRACT NO. 60Y33				
ILLINOIS FED. AID PROJECT				



PARAPET DETAIL (TYP)

FOR INFORMATION ONLY

PLAN

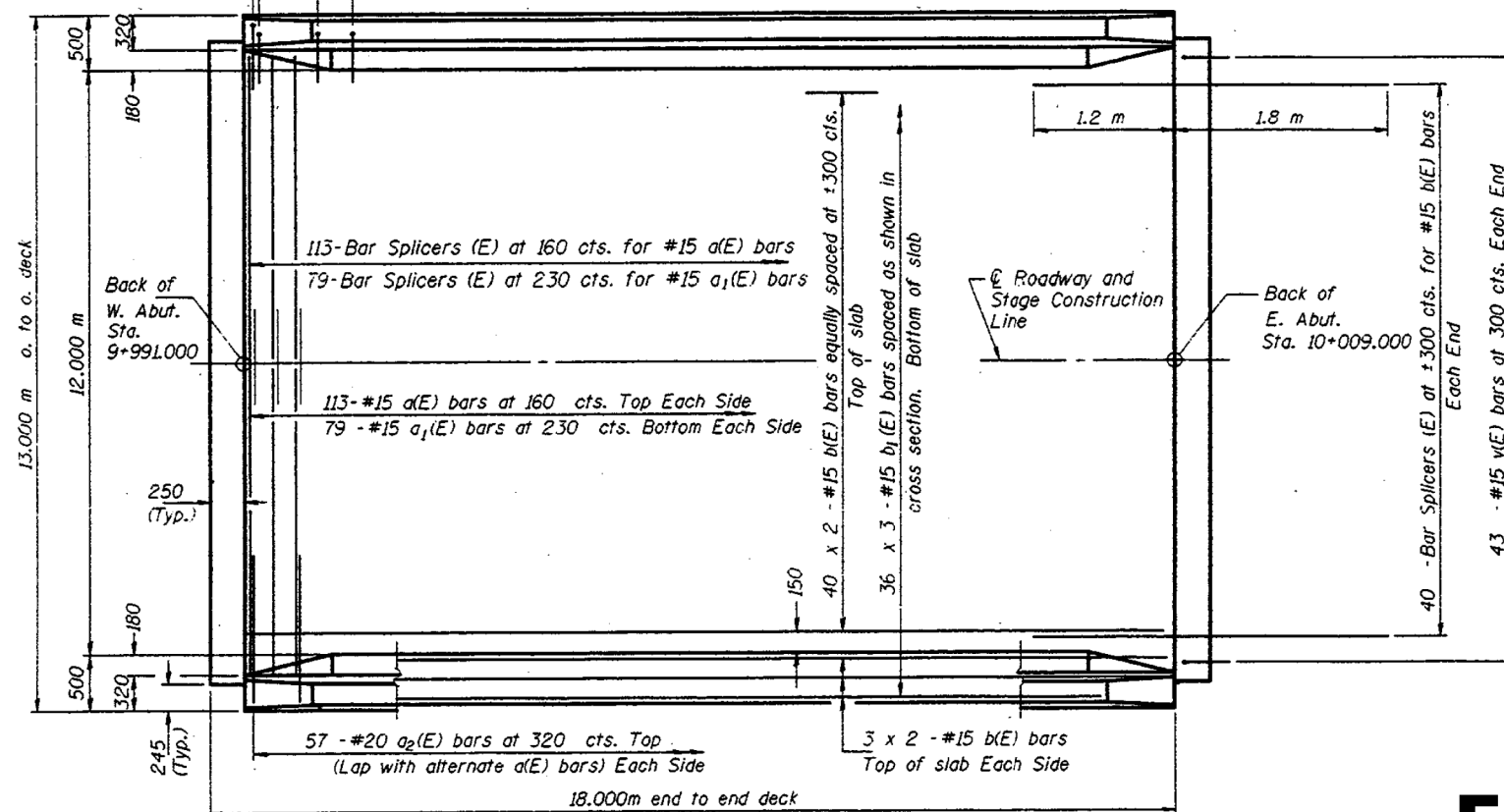


CROSS SECTION
(Looking East)

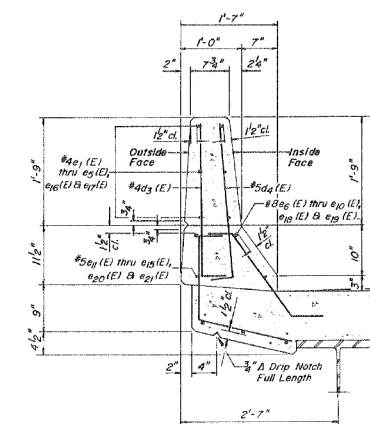
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	PLOT DATE = 8/11/2014	CHECKED -	REVISED -													
		DATE -	REVISED -													

3-#15 d₃(E) bars at 275 cts.
Inside Face (Typ. Ea. Corner)

61 -#15 d₂(E) bars at 300 cts. Outside Face Each Side
275 61 -#15 d₁(E) bars at 275 cts. Inside Face Each Side

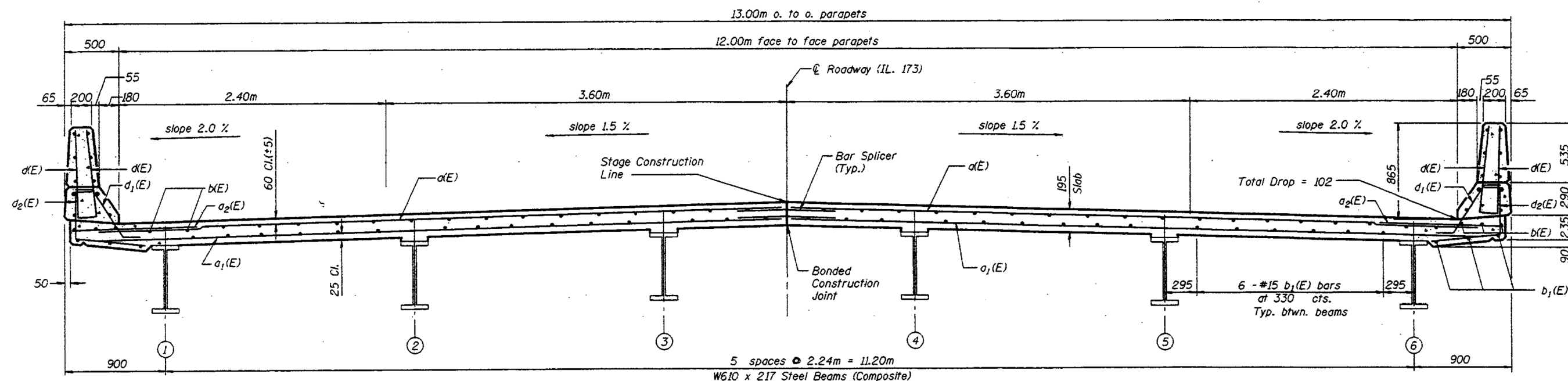


PLAN



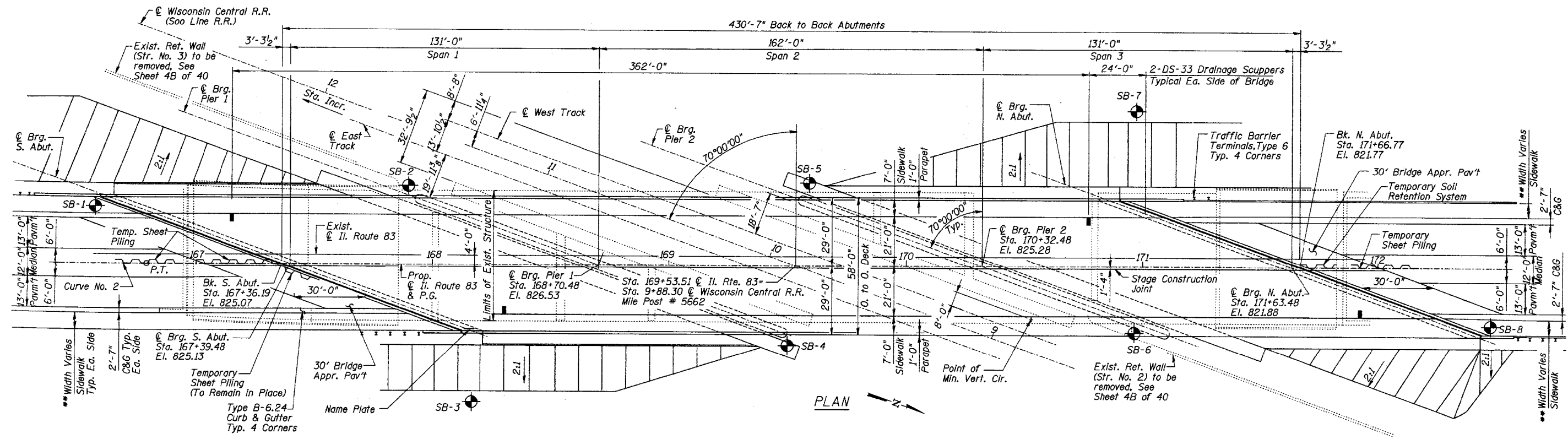
PARAPET DETAIL (TYP)

FOR INFORMATION ONLY

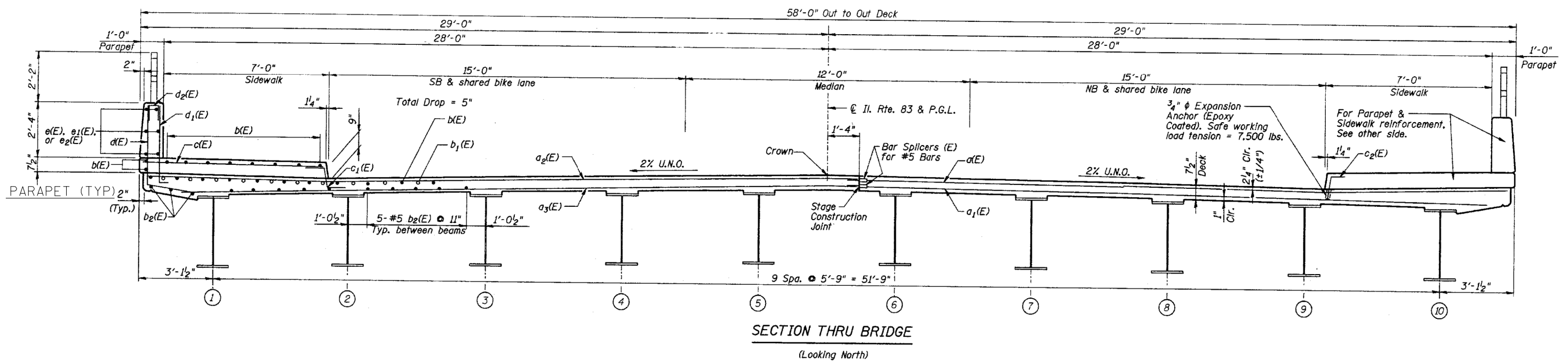


CROSS SECTION
(Looking East)

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 27 (SN 049-0195)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
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		DATE -	REVISED -								ILLINOIS FED. AID PROJECT					

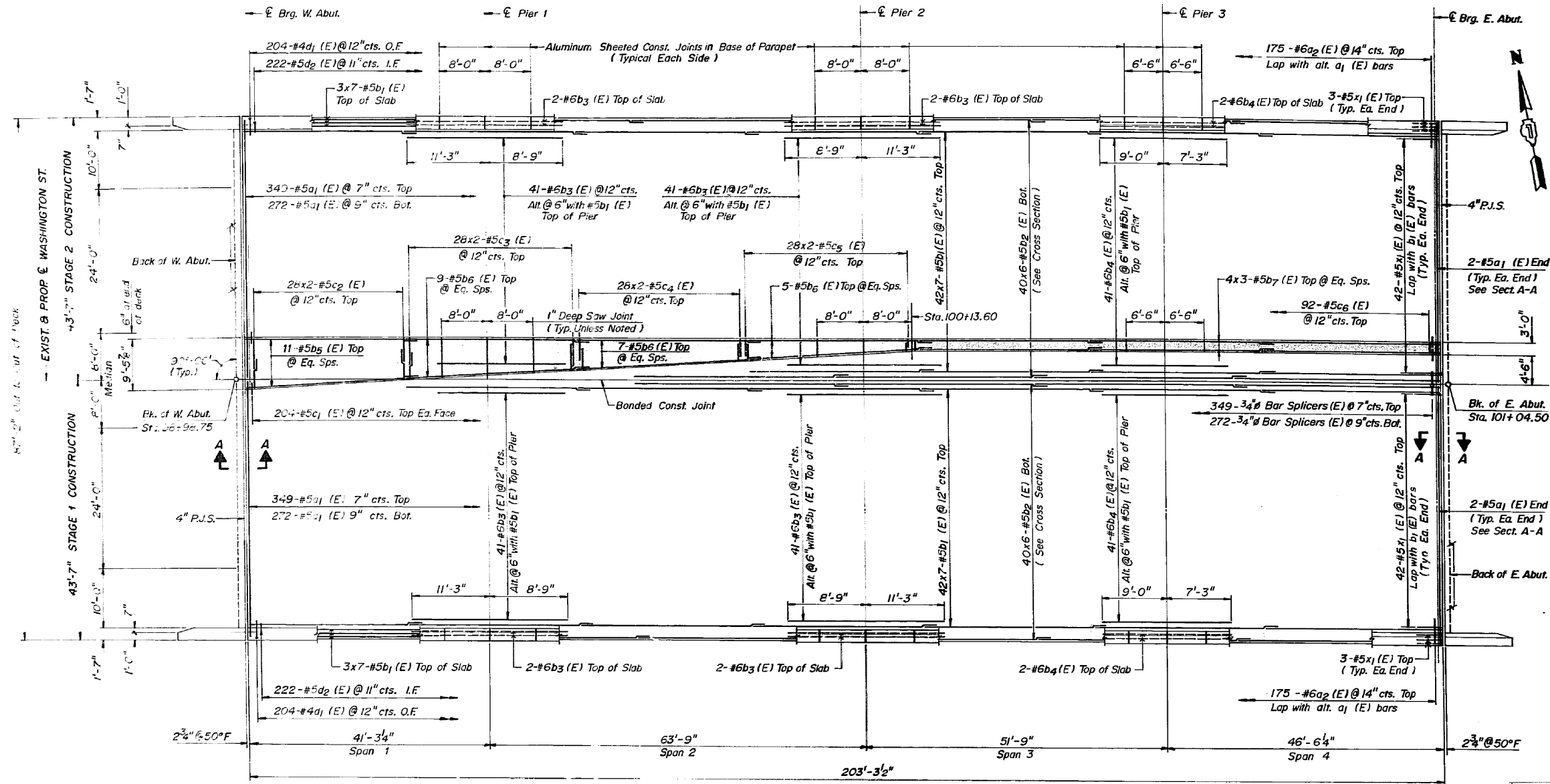


FOR INFORMATION ONLY

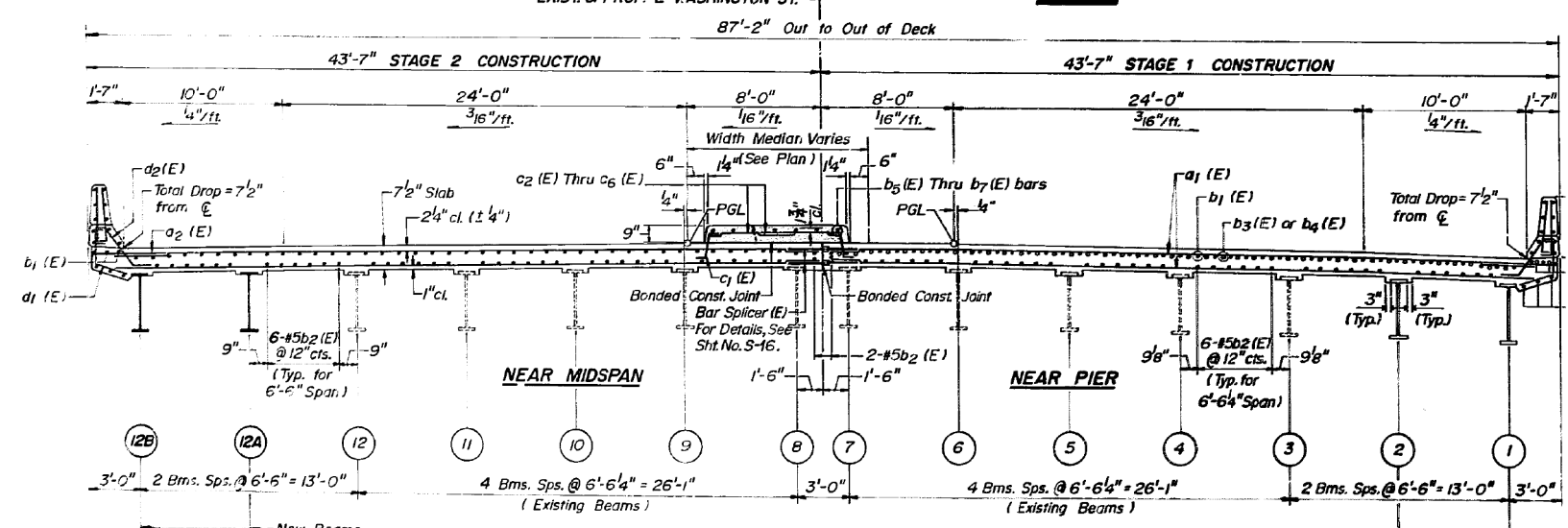


SECTION THRU BRIDGE
(Looking North)

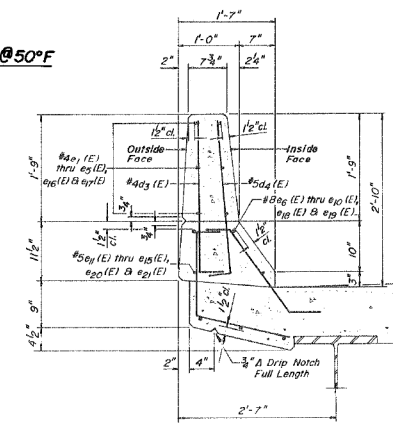
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	PLOT DATE = 8/11/2014	DATE -	REVISED -													
											CONTRACT NO. 60Y33		ILLINOIS FED. AID PROJECT			



PLAN



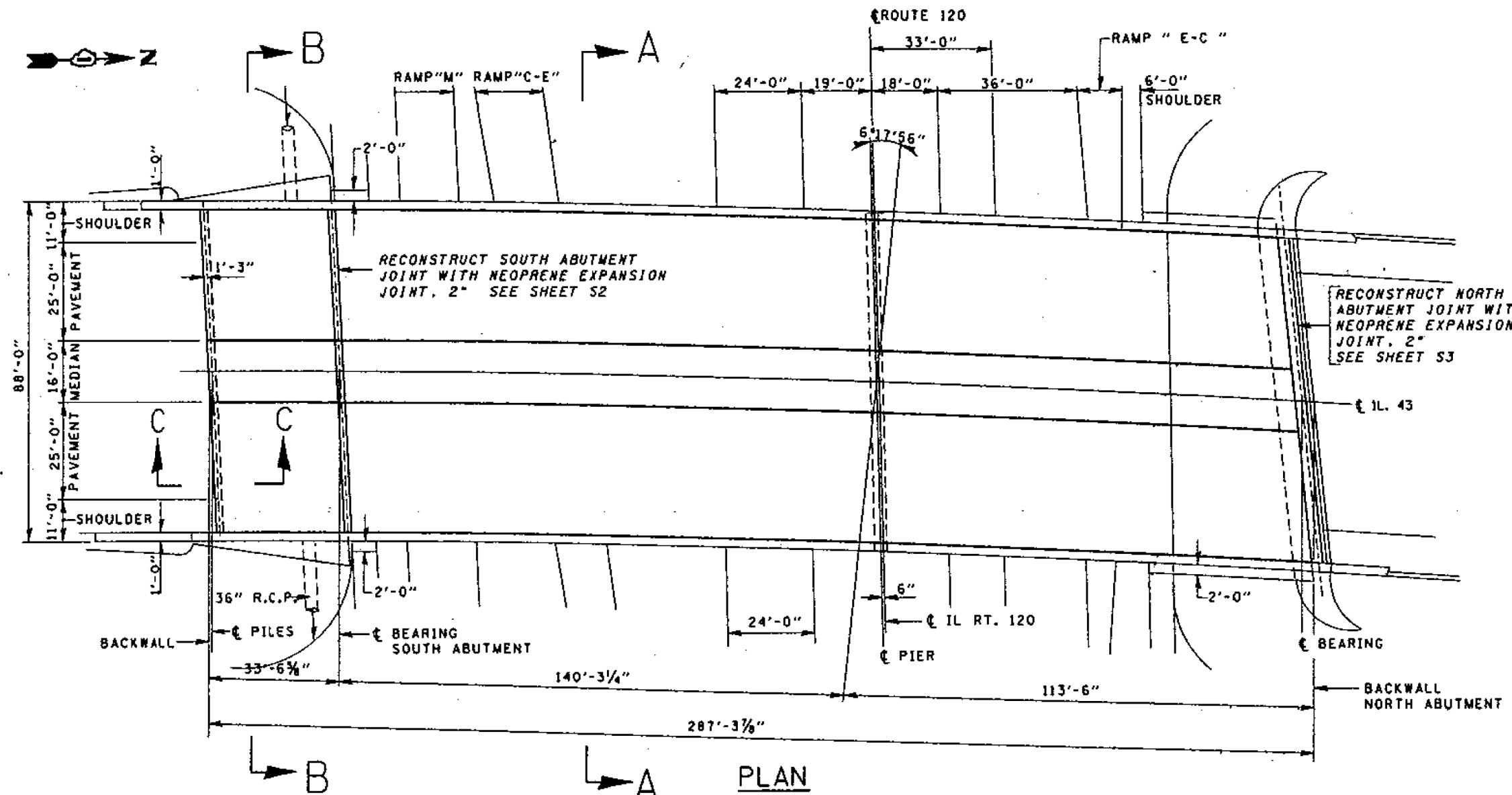
CROSS SECTION (LOOKING EAST)



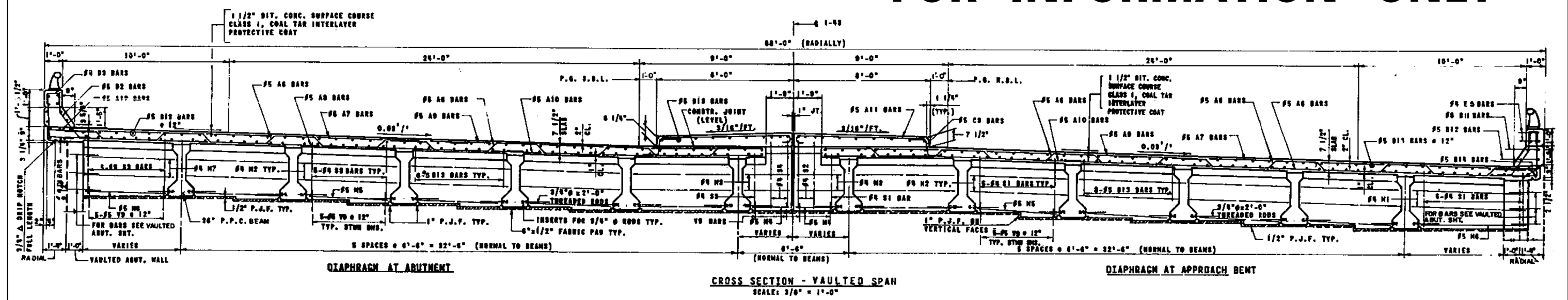
PARAPET DETAIL (TYP)

FOR INFORMATION ONLY

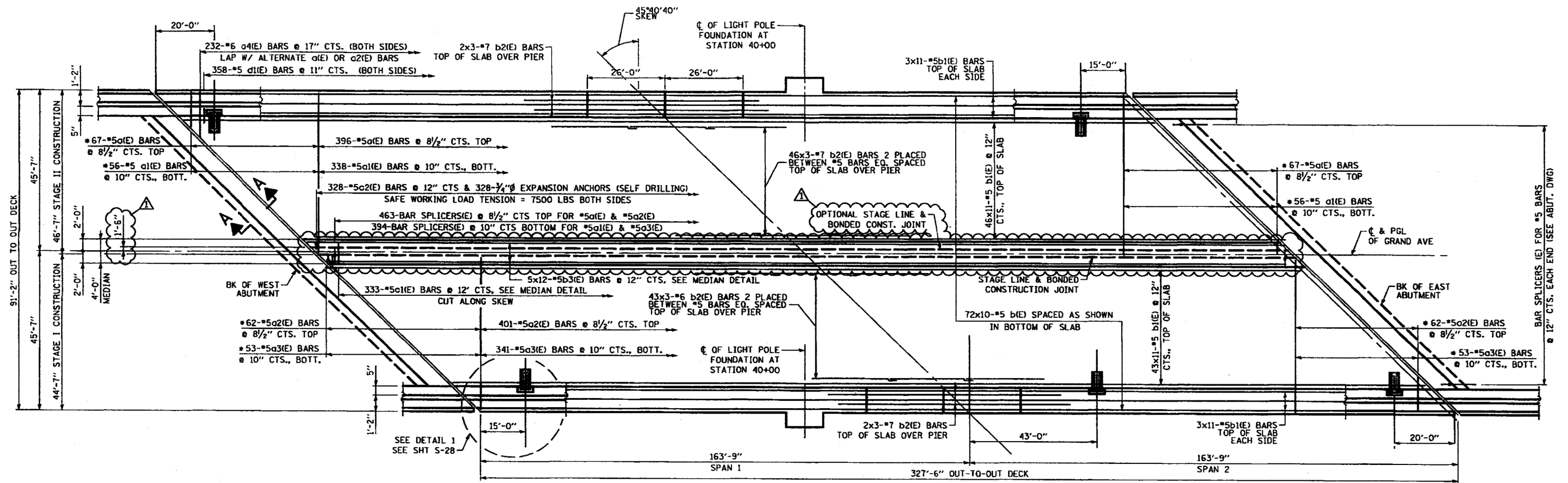
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		DATE -	REVISED -										ILLINOIS FED. AID PROJECT			



FOR INFORMATION ONLY

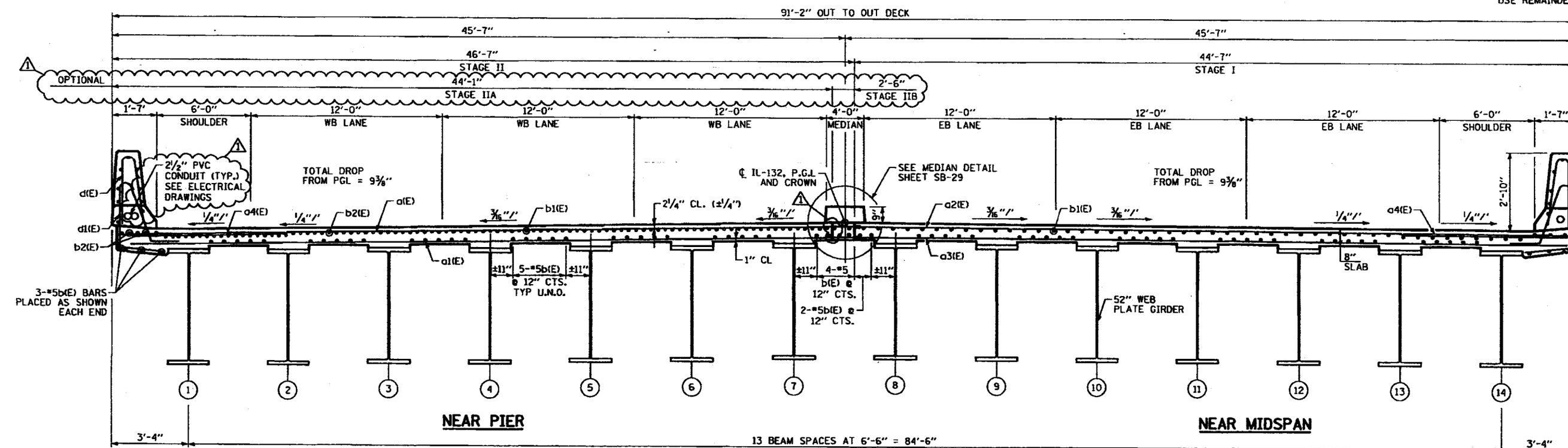


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Default	PLOT DATE = 8/11/2014	CHECKED -	REVISED -			CONTRACT NO. 60Y33					
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO



PLAN

*ORDER BARS FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER OF BARS IN OPPOSITE END OF SLAB.



CROSS-SECTION
LOOKING EAST

PARAPET DETAIL (TYP)

FOR INFORMATION ONLY

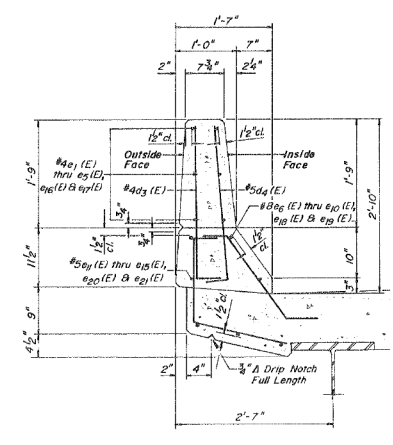
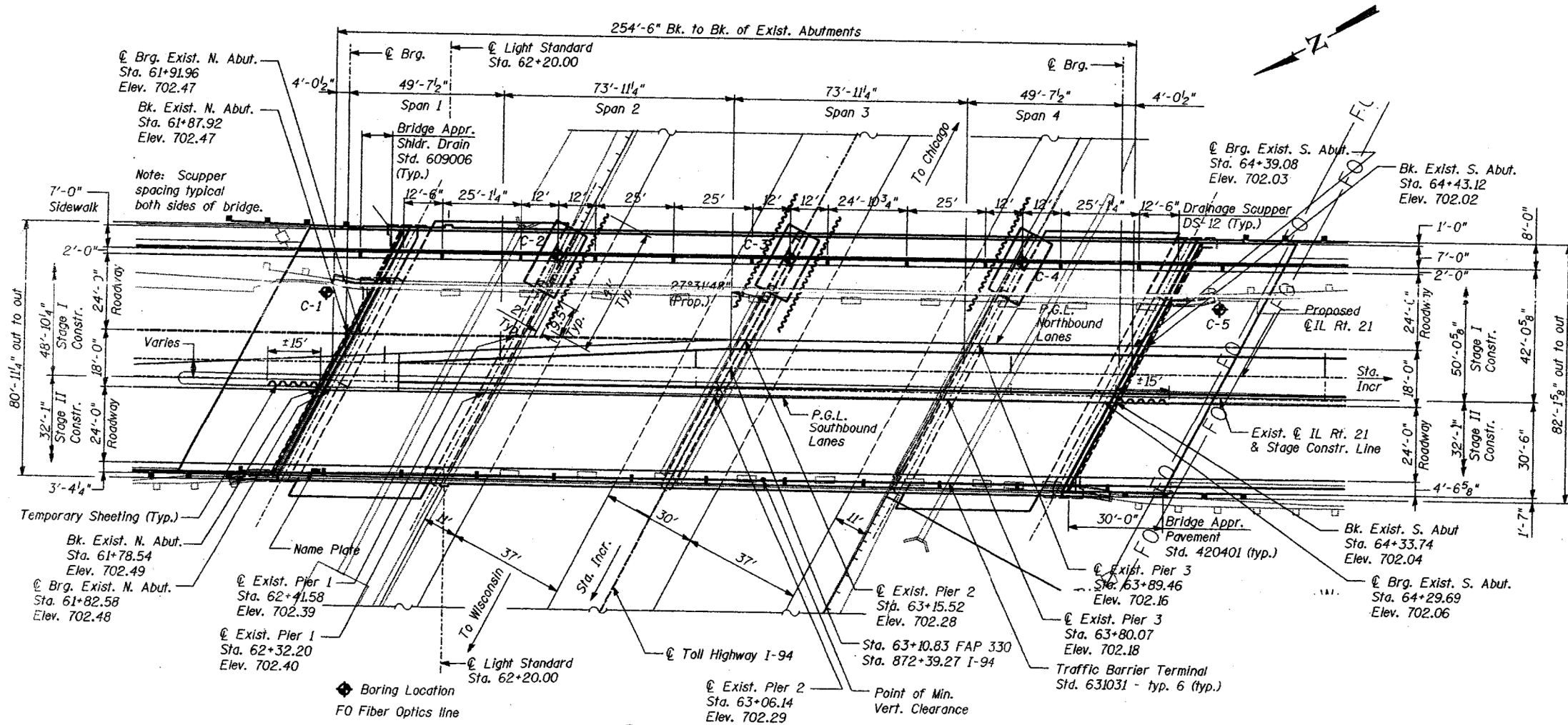
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

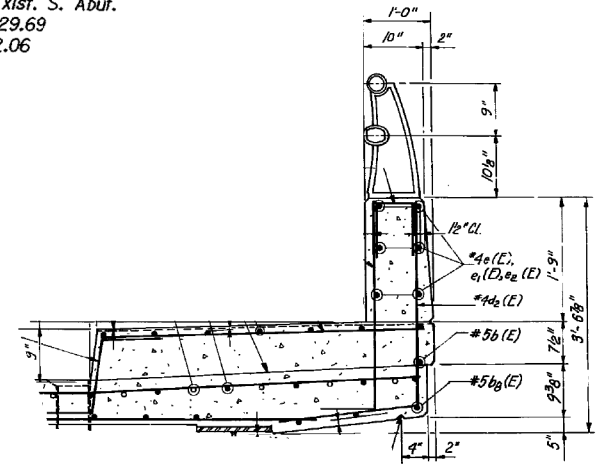
EXISTING PLANS
LOCATION 32 (SN 049-0220)

SCALE: SHEET OF SHEETS STA. TO STA.

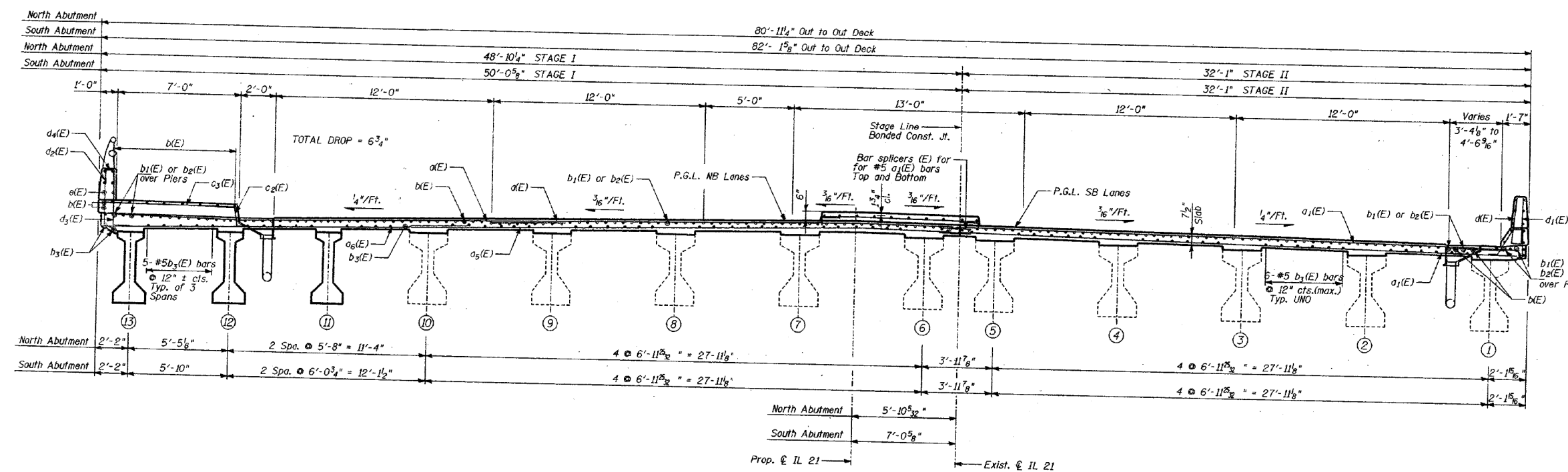
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VAR.	2014-0391	LAKE	49	43
CONTRACT NO. 60Y33				
ILLINOIS FED. AID PROJECT				



PARAPET DETAIL



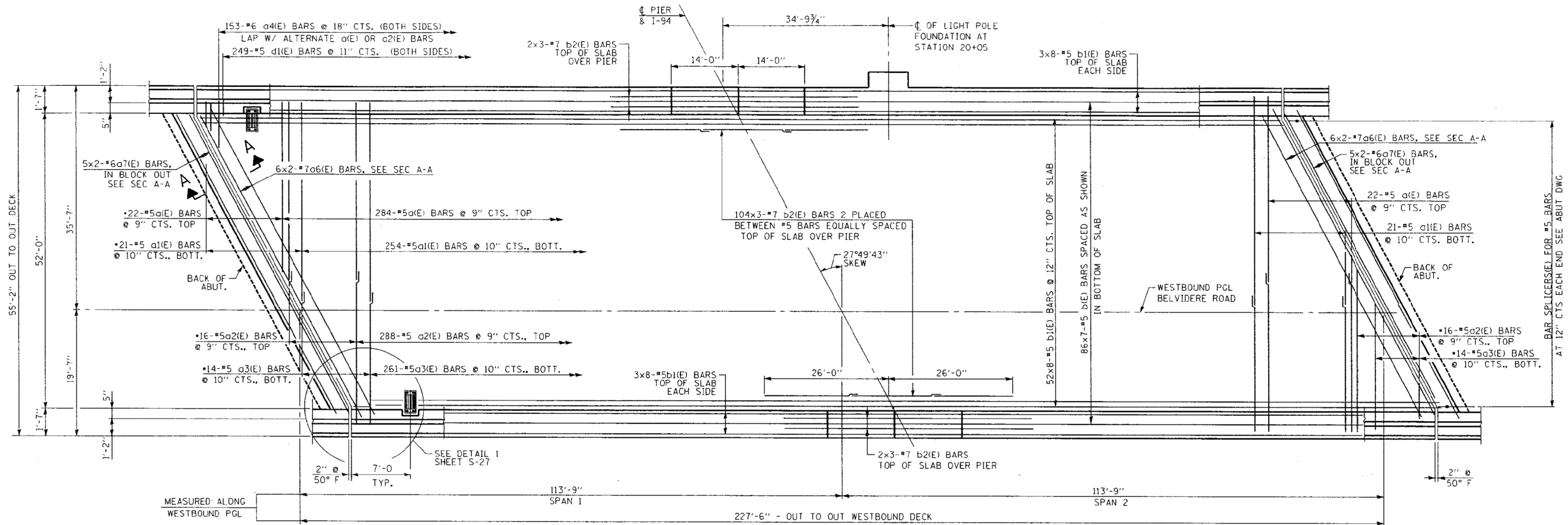
RAILING DETAIL



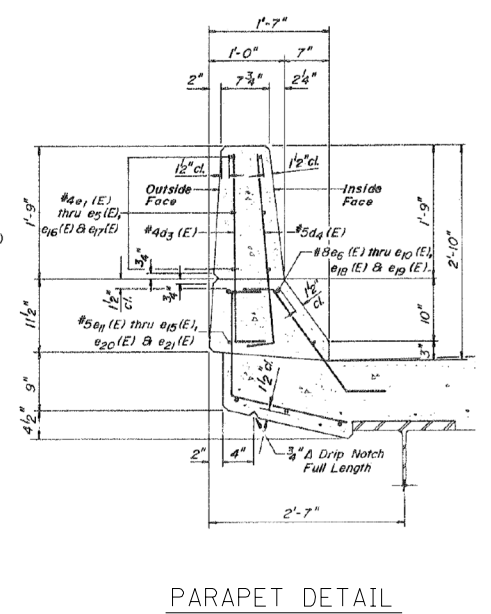
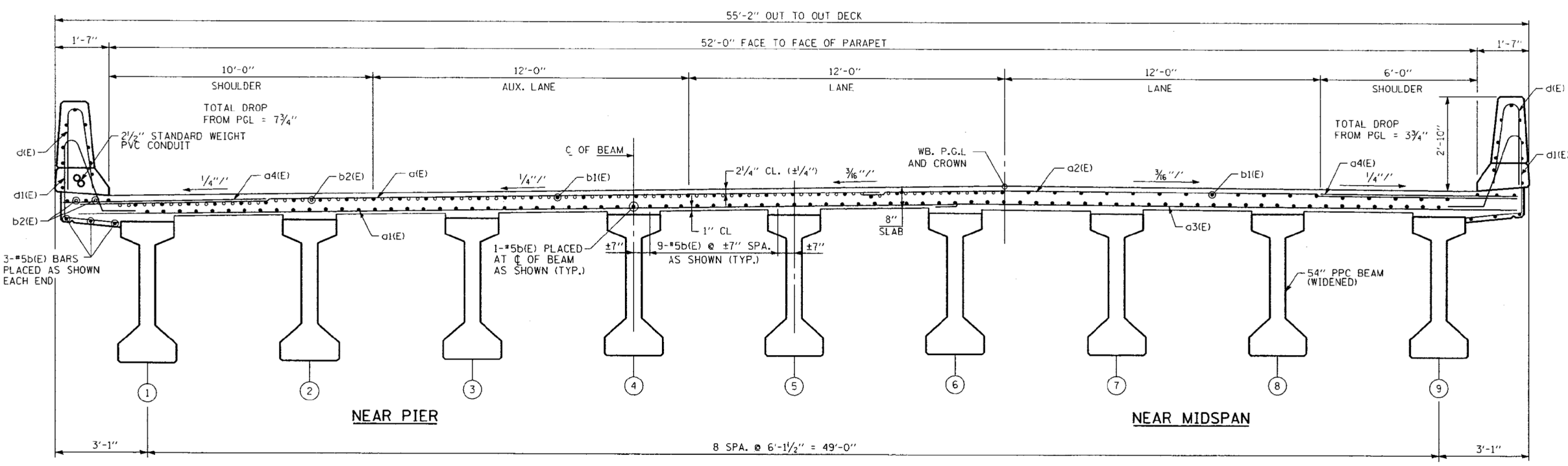
DECK CROSS SECTION
(Looking South)

FOR INFORMATION ONLY

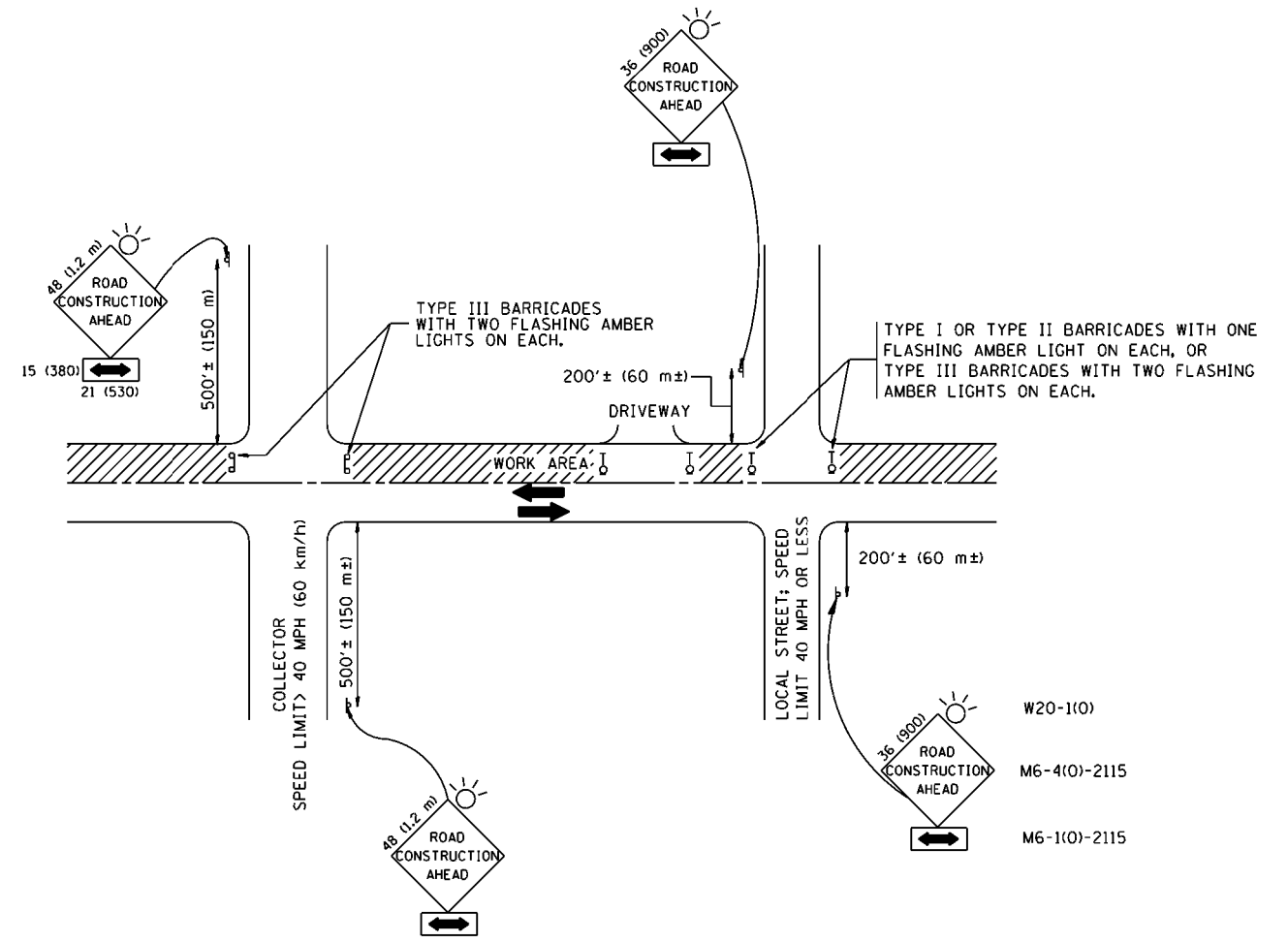
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		CHECKED -	REVISED -		CONTRACT NO. 60Y33								
Default	PLOT DATE = 8/12/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



DECK PLAN FOR INFORMATION ONLY



FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS LOCATION 35 (SN 049-0222) AND LOCATION 36 (SN 049-0221)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 8/11/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = hardnettr	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
ci:\pwork\pwork\hardnettr\d0391061\01\std.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACH 01-06-00

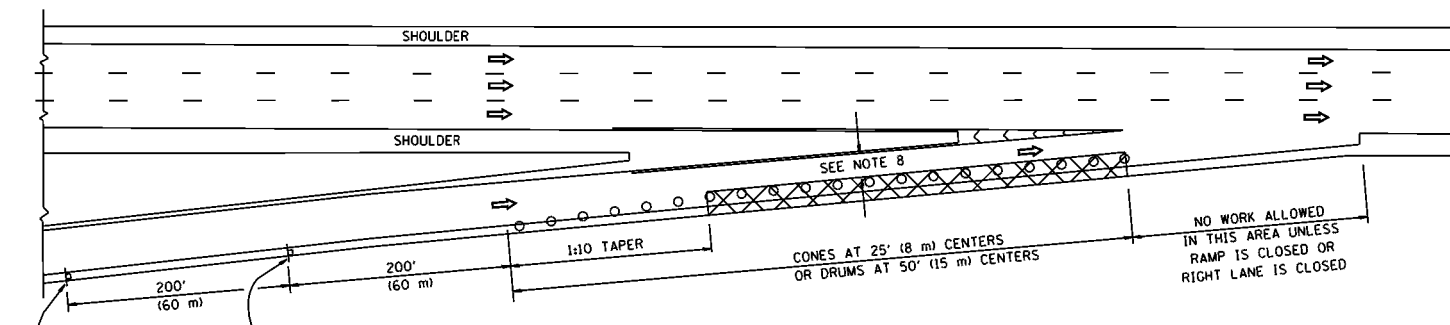
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

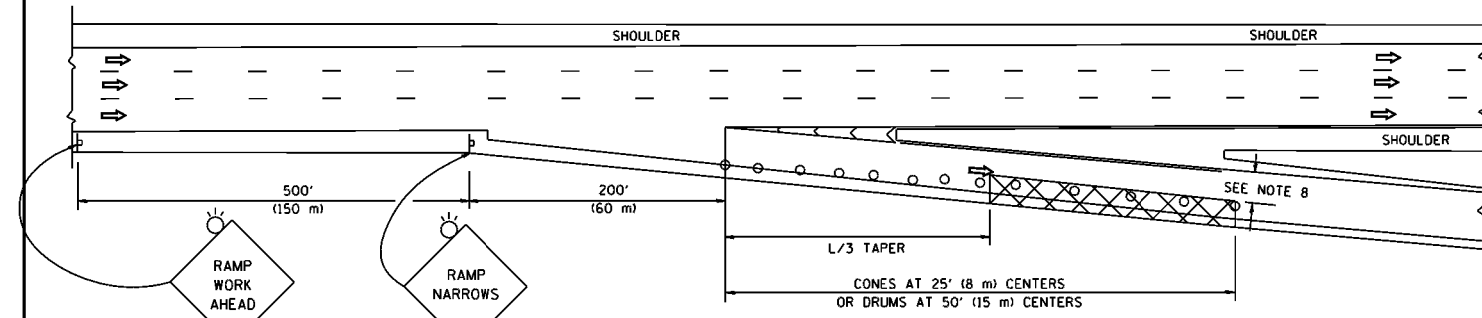
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(1&1)RS-3	LAKE	49	47
TC-10			CONTRACT NO. 60Y33	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

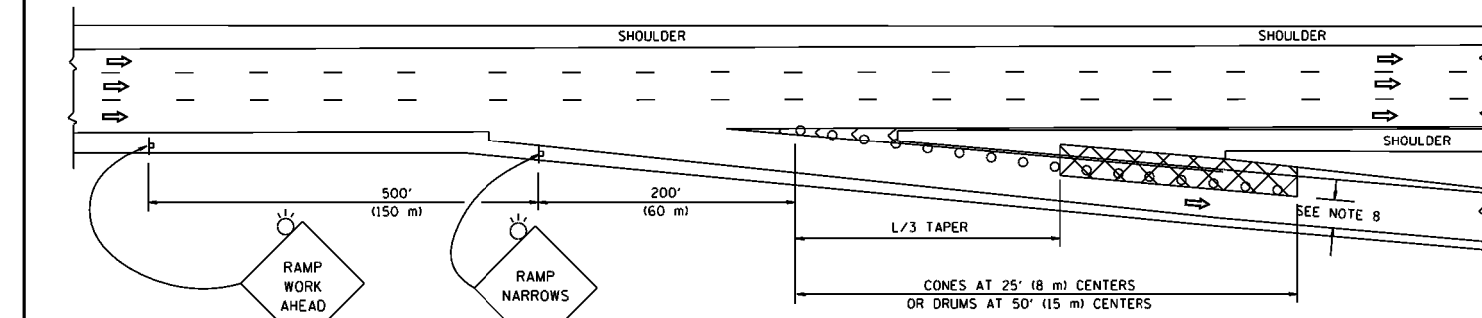
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

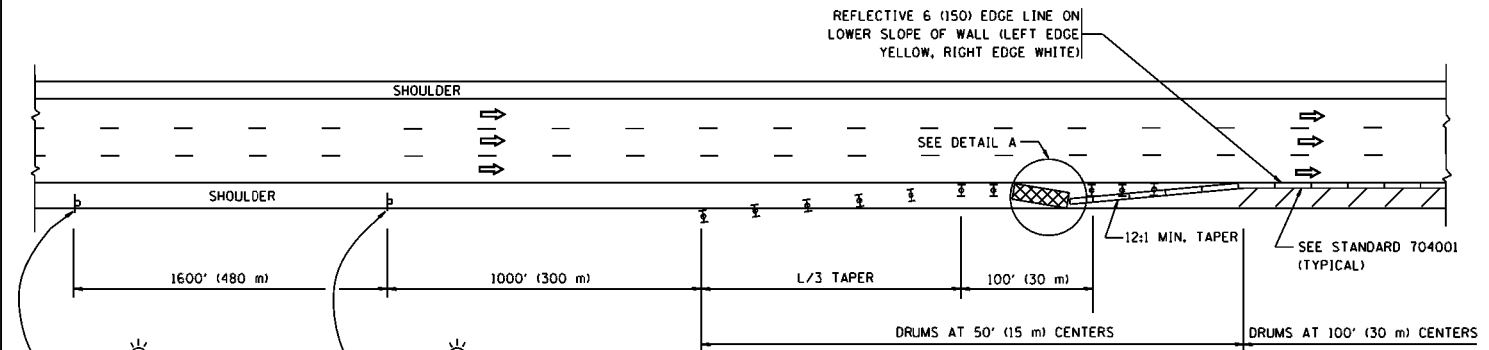
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

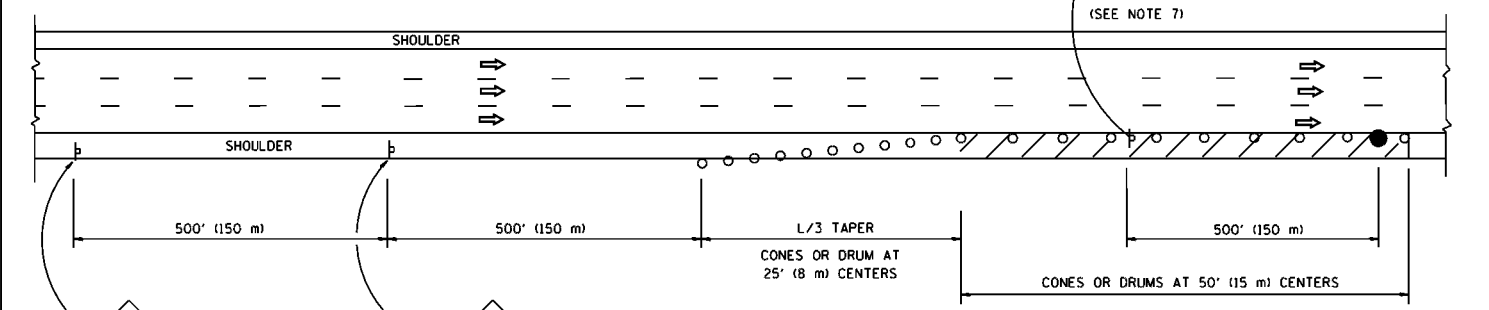
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH L=0.65(WXS) L=(WXS)
W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

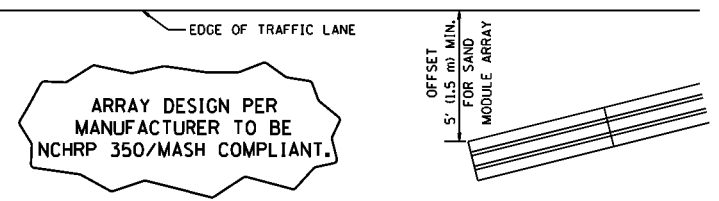


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCRANCHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

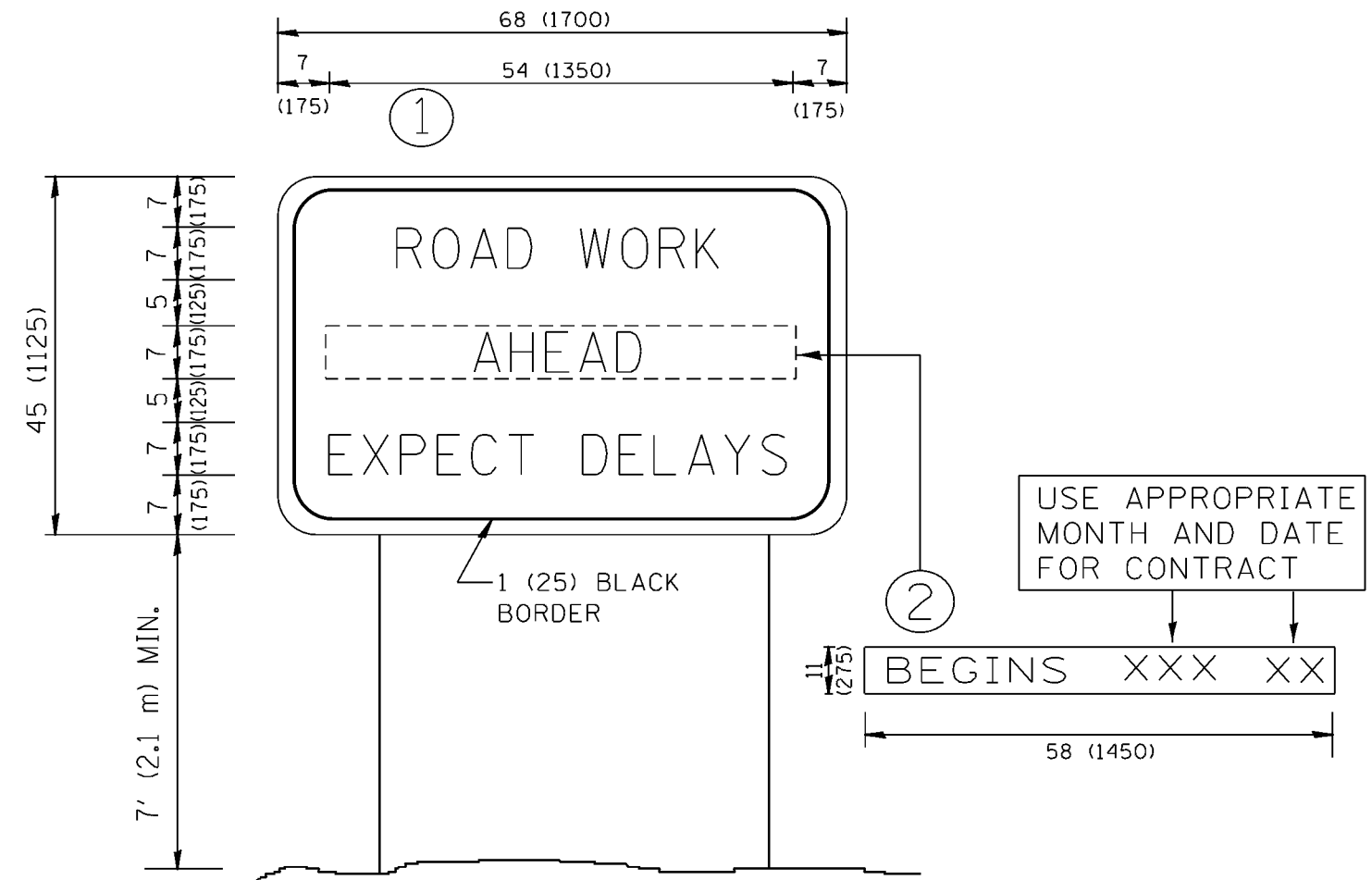
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED - J.A.F. 12-06
ci:\pwork\pwork\hardnettr\0391061\0391061.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - S.P.B. 12-09
	PLOT DATE = 8/11/2014	DATE - 11-96	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY			
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	1181YRS-3	LAKE	49	48
TC-17			CONTRACT NO. 60Y33	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED - R. MIRS 09-15-97
c:\pwork\pwork\hardnettbr\d0391061\d0391061.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	11&1Y1R5-3	LAKE	49	49
TC-22		CONTRACT NO. 60Y33		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				