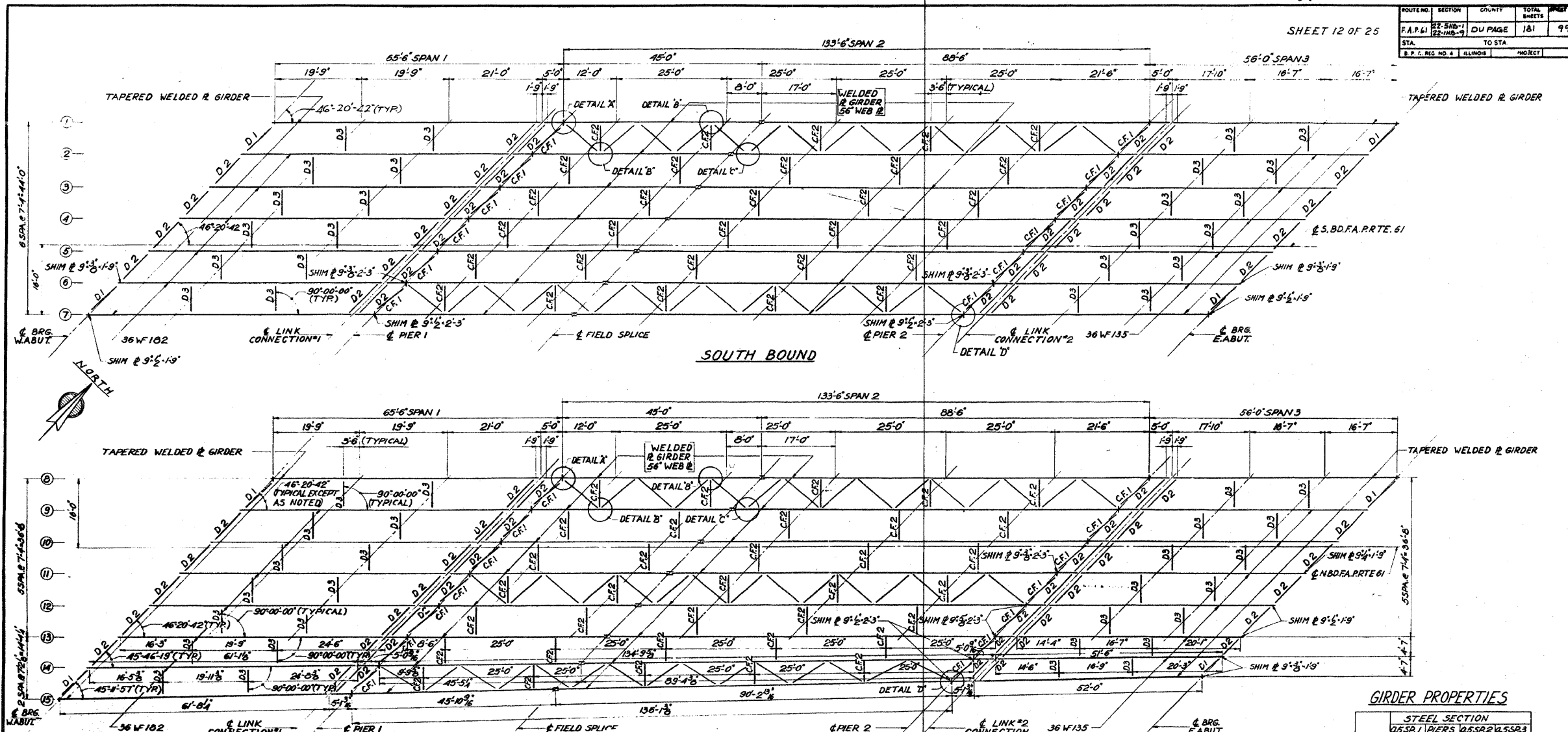


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 12 OF 25

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 61	22-SHB-1 22-IHB-9	DUPAGE	181	99
STA.	TO STA.			
B.P.C. REG. NO. 4	ILLINOIS	PROJECT		



GIRDER ELEVATIONS
FOR FABRICATION ONLY

GIRDERS & BEAMS	SOUTH-BOUND							NORTH-BOUND							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BRG. W. ABUT.	749.779	749.879	749.880	750.451	750.572	750.706	750.619	752.236	752.617	752.877	752.948	753.938	754.735	754.514	752.173
LINK CONN. 1	748.204	748.505	748.806	749.017	749.228	749.339	749.344	750.862	751.243	751.510	751.585	751.594	751.486	751.375	749.246
PIER NO. 1	748.117	748.419	748.721	748.932	749.143	749.254	749.258	749.876	750.160	749.423	749.498	749.509	751.406	751.301	751.181
FIELD SPLICE	747.290	747.571	747.652	748.671	748.354	748.417	748.410	750.048	750.332	750.595	750.670	750.691	750.645	750.593	750.529
PIER NO. 2	745.38	745.385	745.387	746.157	746.318	746.442	746.424	748.045	748.527	748.519	748.605	748.671	748.634	748.678	748.675
LINK CONN. 2	745.162	745.463	745.764	746.064	746.256	746.281	746.302	747.920	748.204	748.467	748.543	748.569	748.561	748.556	748.550
BRG. E. ABUT.	747.073	747.142	747.143	745.04	745.235	745.261	745.213	746.831	747.183	747.447	747.522	747.548	747.542	747.537	747.465

ELEVATIONS ARE GIVEN TO TOP OF WEB FOR PLATE GIRDERS AND TO TOP OF FLANGE FOR ROLLED BEAMS.

NORTH BOUND
FRAMING PLAN

STRESS TABLE

D.L.	STEEL SECTION - MAX. MOMENTS (FT.KIPS)				REACTIONS (KIPS)			SHEAR (KIPS)	
	PIER 1	PIER 2	PIER 2	PIER 3	PIER 1	PIER 2	E. ABUT.	0.2 L _s	0.5 L _s
427	-153	2,296	-124	269	263	104.3	98.7	227	
COMPOSITE SECTION - MAX. MOMENTS									
S.D.L.	104	-37	412	-32	74	6.9	232	223	58
L.L.	544	-203	1,415	-196	428	10.5	606	58.6	39.1
IMR	146	-61	275	-59	124	10.0	74.0	73.5	11.2
TOTAL	794	-301	2,162	-287	626	25.7	202.1	193.1	78.8

S.D.L. = SUPERIMPOSED DEAD LOAD
I_s = MOMENT OF INERTIA STEEL SECT.
S_{ts} = SECT. MODULUS TOP STEEL SECT.
S_{bs} = SECT. MODULUS BOT. STEEL SECT.
I_c = MOMENT OF INERTIA COMP. SECT.
S_{tc} = SECT. MODULUS TOP COMP. SECT.
S_{bc} = SECT. MODULUS BOT. COMP. SECT.

GIRDER PROPERTIES

STEEL SECTION	PIERS	0.25R2	0.5R3
I _s	11,282	36,949	62,498
S _{ts}	621	1,097	1,756
S _{bs}	621	1,572	2,571
COMPOSITE SECTION 11-10			
I _c	25,482	123,706	15,296
S _{tc}	4,205	6,271	4,167
S _{bc}	872	3,081	618

FRAMING PLAN
F.A.P. ROUTE 61 OVER
ILLINOIS ROUTE 53 (ROHLWING ROAD)
PROJECT
SECTIONS 22-SHB-1 & 22-IHB-9
DUPAGE COUNTY
STATION 1250+83.16

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
19 S. WABASH AVE. CHICAGO, ILLINOIS

FOR INFORMATION ONLY

benesch
Engineers - Surveyors - Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10050

SHEET NO. 24	F.A.I. RTE. 290	SECTION 221, 1-1, 2&3RS-7	COUNTY DUPAGE	TOTAL SHEETS 546	SHEET NO. 437
32 SHEETS			CONTRACT NO. 60G51		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

EXISTING PLAN INFORMATION 9 OF 17
STRUCTURE NO. 022-0137

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