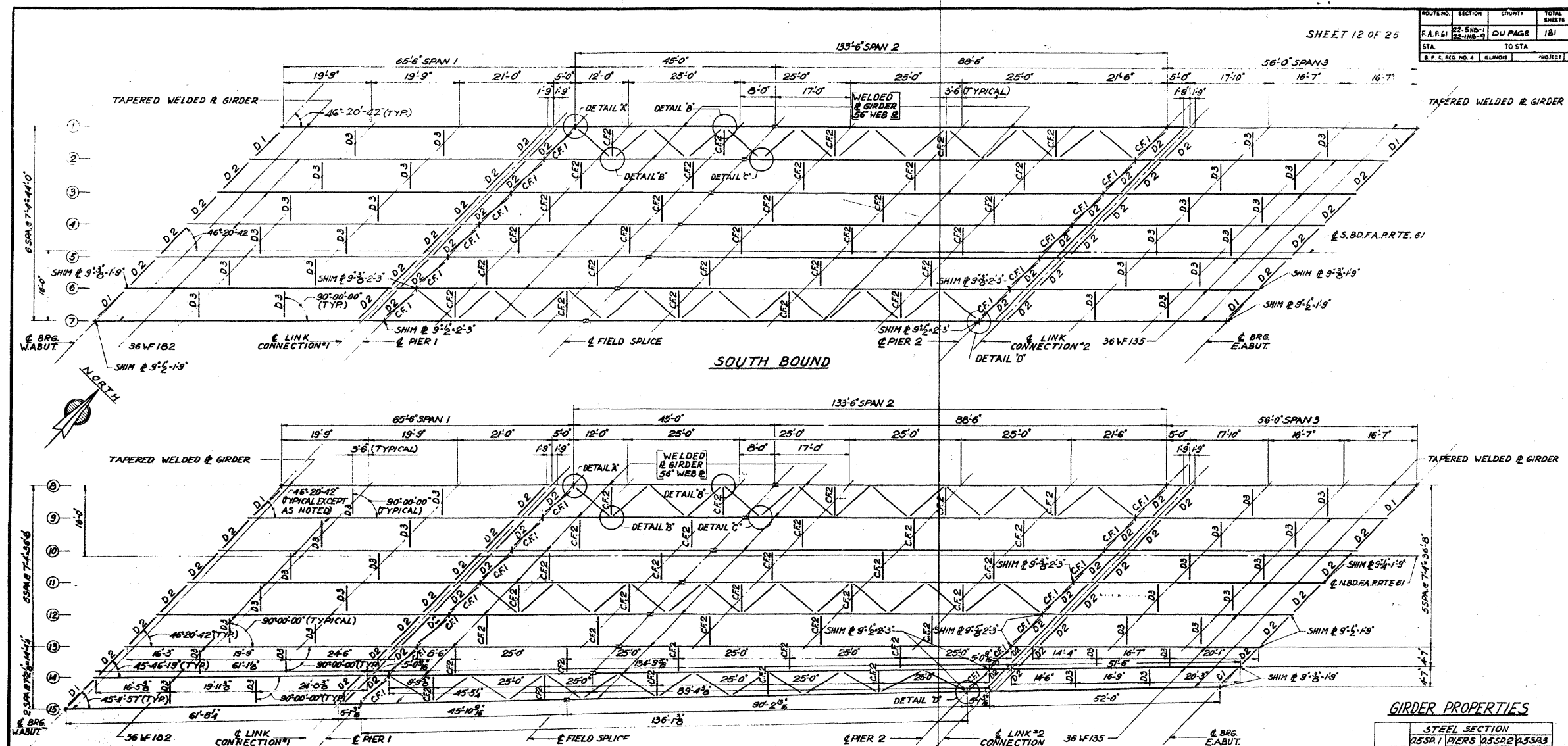


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 12 OF 25

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 61	22-5HB-1	DUPAGE	181	99
STA.	TO STA.			
1250+00	1250+83.16			
ILLINOIS PROJECT				



GIRDER ELEVATIONS
FOR FABRICATION ONLY

GIRDERS & BEAMS LOCATION	SOUTH-BOUND							NORTH-BOUND							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BRG. W. ABUT.	749.479	749.579	749.190	750.451	752.572	752.706	752.619	752.236	752.617	752.877	752.948	752.934	752.735	752.514	752.173
LINK CONN. 1	749.201	748.505	748.806	749.077	749.298	749.333	749.344	749.962	751.246	751.510	751.585	751.594	751.486	751.378	751.246
PIER NO. 1	749.117	748.419	748.725	748.990	749.211	749.285	749.258	749.876	751.160	751.423	751.498	751.509	751.406	751.301	751.181
FIELD SPLICE	747.220	747.571	747.672	748.162	748.384	748.411	748.430	750.048	752.332	752.595	752.670	752.691	752.665	752.593	752.529
PIER NO. 2	745.38	745.385	745.887	746.157	746.378	746.412	746.424	748.043	749.327	749.590	749.665	749.671	749.681	749.678	749.673
LINK CONN. 2	745.162	745.463	745.764	746.034	746.254	746.289	746.302	747.920	749.204	749.467	749.543	749.567	749.567	749.556	749.550
BRG. ABUT.	744.073	744.112	744.743	745.014	745.235	745.267	745.273	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 TOP OF FLANGE FOR ROLLED BEAMS.

NORTH BOUND
FRAMING PLAN

STRESS TABLE

STEEL SECTION	MAXIMUM MOMENTS (FT-KIPS)				REACTIONS (KIPS)			SHEAR (KIPS)		
	025SR1	PIER 1	025SR2	025SR3	ABUT.	PIER 1	PIER 2	ABUT.	0.2 L _s	0.5 L _s
D.L.	427	-153	2,296	-124	203	203	104.3	98.7	227	
COMPOSITE SECTION - MAXIMUM MOMENTS										
S.D.L.	104	-37	472	-32	74	69	232	223	5.0	9.1
L.L.	544	-203	1,415	-196	428	405	606	326	39.1	35.0
T.M.R.	146	-61	275	-59	124	10.0	140	13.5	17.2	6.8
TOTAL	794	-301	2,162	-287	626	657	202.1	193.1	78.8	50.9

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

GIRDER PROPERTIES

STEEL SECTION	I _s	S _{ts}	S _{bs}
025SR1 PIERS 025SR2 025SR3	11,282	36,949	42,439
	621	1,097	1,756
	621	1,572	2,571
COMPOSITE SECTION I=10	25,482	123,706	15,296
	4,205	6,271	4,167
	842	3,081	678

FRAMING PLAN
F.A.P. ROUTE 61 OVER
ILLINOIS ROUTE 53 (ROHLWING ROAD)
PROJECT
SECTIONS 22-5HB-1 & 22-1HB-9
DUPAGE COUNTY
STATION 1250+83.16

ALFRED BENESCH & COMPANY
ENGINEERS - ARCHITECTS
102 W. MADISON 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. 27 38 SHEETS	F.A.I. RTE. 290	SECTION 22(1, 1-1, 2&3)RS-7	COUNTY DUPAGE	TOTAL SHEETS 546	SHEET NO. 402
	CONTRACT NO. 60G51			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

EXISTING PLAN INFORMATION 10 OF 21
STRUCTURE NO. 022-0138

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